

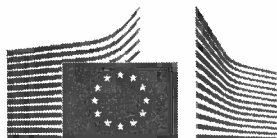


EUROPEAN COMMISSION
DG ENVIRONMENT

**GRANT AGREEMENT
INTEGRATED PROJECT**



LIFE15 IPE IT 013
Po Regions engaged to policies of Air



EUROPEAN COMMISSION
DIRECTORATE-GENERAL
ENVIRONMENT
Directorate D – Natural Capital
ENV.D.4 – LIFE Programme



GRANT AGREEMENT FOR INTEGRATED PROJECTS¹

PROJECT NUMBER – LIFE15 IPE IT 013

Po Regions engaged to policies of Air

The European Union (hereinafter referred to as "the Union"), represented by the European Commission ("the Commission") also referred to as "Contracting Authority", itself represented for the purposes of signature of this agreement by Mr. Hervé MARTIN, Head of Unit, DG Environment,

on the one part,

and

Regione Emilia-Romagna
Directorate General for Territorial and Environmental Care
viale Aldo Moro, 52
40127 Bologna
Italy

¹ Within the framework of the Regulation (EC) No 1293/2013 of the European Parliament and of the Council of 11 December 2013 on the establishment of a Programme for the Environment and Climate Action (LIFE) and repealing Regulation (EC) No 614/2007, OJ L 347 of 20/12/2013, p.185 (hereinafter "the LIFE Regulation") and the Commission Implementing Decision of 19 March 2014 on the adoption of the LIFE multiannual work programme for 2014-17, OJ L116 of 17/04/2014, p. 1.

hereinafter referred to as “the coordinating beneficiary”, represented for the purposes of signature of this Agreement by Mr. Paolo Ferrecchi, Director General for Territory and Environment Protection,

and the following other associated beneficiaries:

- Veneto Region - Environment Department, established in Italy,
- Lombardy Region, established in Italy,
- Piedmont Region, Directorate for Environment, Management and Territory Protection, established in Italy,
- Friuli Venezia Giulia Autonomous Region Directorate Central for Energy and Environment, established in Italy,
- Autonomous Province of Trento, established in Italy,
- Regional Agency for Environmental Protection and Energy in the Emilia-Romagna Region, established in Italy,
- Regional Agency for Environment of Veneto, established in Italy,
- Regional Agency for Environment of Piedmont, established in Italy,
- Lombardy Regional Agency for Environmental Protection, established in Italy,
- Environmental Protection Agency of Valle d'Aosta, established in Italy,
- Environmental Protection Agency of Friuli Venezia Giulia, established in Italy,
- Ministry of Environment and Spatial Planning, Slovenian Environment Agency, established in Slovenia
- Municipality of Bologna, established in Italy,
- Municipality of Milan, established in Italy,
- City of Torino, the Management Infrastructure and Mobility, established in Italy,
- ERVET Spa – Emilia-Romagna Territorial Economic Development, established in Italy,
- Lombardy Foundation for the environment, established in Italy,

duly represented by the coordinating beneficiary or by virtue of the mandate included in Annex II forms A4 for the signature of this Agreement,

hereinafter referred to collectively as “the beneficiaries”, and individually as “beneficiary” for the purposes of this Agreement where a provision applies without distinction between the coordinating or associated beneficiaries,

on the other part,

HAVE AGREED

to the Special Conditions (hereinafter referred to as “the Special Conditions”) and the following Annexes:

- Annex I General Conditions (hereinafter referred to as “the General Conditions”)
- Annex II Description of the project
- Annex III Estimated budget of the project: description of the project, F-Forms
- Annex IV Mandates provided to the coordinating beneficiary by the other beneficiaries: Annex II, Forms A4
- Annex V Model technical report: The applicable model technical reports are to be found on the website <http://ec.europa.eu/environment/life/toolkit/pmtools/index.htm>
- Annex VI Model financial statement: The applicable model financial reports are to be found on the website <http://ec.europa.eu/environment/life/toolkit/pmtools/index.htm>
- Annex VII Model terms of reference for the certificate on the financial statements; to be found on the website <http://ec.europa.eu/environment/life/toolkit/pmtools/index.htm>
- Annex VIII Model terms of reference for the operational verification report: not applicable
- Annex IX Model terms of reference for the certificate on the compliance of the cost accounting practices: not applicable
- Annex X Financial and Administrative guidelines <http://ec.europa.eu/environment/life/toolkit/pmtools/index.htm>
- Annex XI Guidelines for applicants <http://ec.europa.eu/environment/life/toolkit/pmtools/index.htm>

which form an integral part of this Agreement, hereinafter referred to as "the Agreement".

The terms set out in the Special Conditions shall take precedence over those set out in the Annexes.

The terms of Annex I "General Conditions" shall take precedence over the other Annexes.

SPECIAL CONDITIONS

ARTICLE I.1 – SUBJECT MATTER OF THE AGREEMENT

The Commission has decided to award a grant, under the terms and conditions set out in the Special Conditions, the General Conditions and the other Annexes to the Agreement, for the project entitled **Po Regions engaged to policies of Air** ("the project") as described in Annex II.

With the signature of the Agreement, the beneficiaries accept the grant and agree to implement the project, acting on their own responsibility.

ARTICLE I.2 – ENTRY INTO FORCE OF THE AGREEMENT AND DURATION OF THE PROJECT

I.2.1 The Agreement shall enter into force on the date on which the last party signs.

I.2.2 The project shall run from 01.02.2017 to 31.01.2024.

ARTICLE I.3 - MAXIMUM AMOUNT AND FORM OF THE GRANT

The grant, also referred to as the Union contribution, shall be of a **maximum amount of EUR 9 974 624** and shall take the form of:

- (a) The reimbursement of 60 % of the eligible costs of the project ("reimbursement of eligible costs"), which are estimated at EUR 16 625 439 and which are:
 - (i) actually incurred ("reimbursement of actual costs") for the following categories of costs for each of the beneficiaries: direct personnel costs; travel and subsistence costs; costs for subcontracting (also referred to as "external assistance costs"); cost of durable goods: (depreciation) costs of infrastructure and equipment, prototype costs; costs for land purchase/long-term lease of land/one-off compensations for land use rights; costs of consumables; other costs;
 - (ii) reimbursement of unit costs: **not applicable**
 - (iii) reimbursement of lump sum costs: **not applicable**
 - (iv) declared on the basis of a flat-rate: overheads as specified in Annex III as a fixed percentage of the eligible direct costs excluding costs of land purchase/long-term lease of land/one-off compensations for land use rights.
 - (v) reimbursement of costs declared on the basis of the beneficiary's usual cost accounting practices: **not applicable**
- (b) unit contribution: **not applicable**
- (c) lump sum contribution: **not applicable**
- (d) flat-rate contribution: **not applicable**

ARTICLE I.4 – ADDITIONAL PROVISIONS ON REPORTING, PAYMENTS AND PAYMENT ARRANGEMENTS

I.4.1 Reporting periods, payments

In addition to the provisions set out in Articles II.23 and II.24, the following payment arrangements shall apply:

Pre-financing payment

- Upon entry into force of the Agreement, a pre-financing payment of EUR 1 994 924,80, i.e. 20% of the Union contribution specified in Article I.3 shall be paid to the coordinating beneficiary.

Interim payments

- At the end of each project phase as specified in Annex II, an interim payment shall be paid to the coordinating beneficiary, subject to the receipt of a certificate on the financial statements and underlying accounts (“certificate on the financial statements”) for the project in accordance with Article II.23.2(d).

Each interim payment shall not exceed 20% of the maximum amount specified in Article I.3 and the total amount of pre-financing and interim payments shall not exceed 80 % of the maximum amount specified in Article I.3.

Payment of the balance

- The balance shall be paid to the coordinating beneficiary subject to the receipt of a certificate on the financial statements and underlying accounts (“certificate on the financial statements”) for the project in accordance with Article II.23.2(d).

In addition to the reporting requirements set out in Article II.23 the coordinating beneficiary shall inform the Agency/Commission by 30 November each year about the cumulative expenditure incurred by the beneficiaries from the starting date set out in Article I.2.2. This information is required for the Agency/Commission's accounting purposes and may not be used for determining the final Union contribution.

I.4.2 Time limit for payments

The time limit for the Agency/Commission to make the pre-financing payment is 60 days and the payment of the balance is 90 days.

I.4.3 Language of requests for payments, technical reports and financial statements

All requests for payments, technical reports and financial statements shall be submitted in English, with the exception of the technical annexes and supporting documents, which may be provided in any official language of the European Union.

ARTICLE I.5 – BANK ACCOUNT FOR PAYMENTS

All payments shall be made to the coordinator's bank account as indicated below:

Name of bank: Unicredit Spa

Address of branch: Via Ugo Bassi 1, 40121 Bologna, Italy

Precise denomination of the account holder: Regione Emilia-Romagna

Full account number (including bank codes): IT15 H02008 02435 000003010203

ARTICLE I.6 - DATA CONTROLLER AND COMMUNICATION DETAILS OF THE PARTIES

I.6.1 Data controller

The entity acting as a data controller according to Article II.6 shall be: Unit ENV.D.4 – LIFE Programme.

I.6.2 Communication details of the Commission

For projects managed directly by the Commission, any communication addressed to it shall bear the identification number and project title and *shall be sent to the following address:*

Ordinary or registered mail by postal service:

*European Commission
DG Environment
ENV.D.4 LIFE Programme
B-1049 Brussels*

Express delivery service or hand-delivery against signature:

*European Commission
DG Environment
ENV.D.4 LIFE Programme
Mail Service
Rue du Bourget 1
B-1140 Brussels*

E-mails:

E-mail address: env-life-env@ec.europa.eu

I.6.3 Communication details of the coordinating beneficiary

Any communication from the Commission to the beneficiaries shall be sent to the following address:

Regione Emilia-Romagna
Directorate General for Territorial and Environmental Care
viale Aldo Moro, 52
40127 Bologna
Italy

E-mail address: Ambpiani@Regione.Emilia-Romagna.it

ARTICLE I.7 - ENTITIES AFFILIATED TO THE BENEFICIARIES not applicable

ARTICLE I.8 - BENEFICIARIES WHICH ARE INTERNATIONAL ORGANISATIONS not applicable

Done at Brussels in three copies, on **14 DEC. 2016**.

For the coordinating beneficiary,

For the Commission,

*Paolo FERRECCHI
Director General
for Territory and Environment Protection*

*Hervé MARTIN
Head of Unit*



ANNEX I
GENERAL CONDITIONS

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PART A – LEGAL AND ADMINISTRATIVE PROVISIONS

ARTICLE II.1 – GENERAL OBLIGATIONS AND ROLES OF THE BENEFICIARIES

II.1.1 General obligations and role of the beneficiaries

The beneficiaries shall:

- (a) be jointly and severally responsible for carrying out the project in accordance with the terms and conditions of the Agreement;
- (b) be responsible for complying with any legal obligations incumbent on them jointly or individually;
- (c) make appropriate internal arrangements for the proper implementation of the project, consistent with the provisions of this Agreement; where provided for in the Special Conditions, those arrangements shall take the form of an internal co-operation agreement between the beneficiaries;
- (d) maintain up-to-date books of account, in accordance with the usual accounting conventions imposed on them by law and existing regulations;
- (e) ensure that all invoices include a clear reference to the project;
- (f) not act, in the context of the project, as sub-contractor or supplier to any other beneficiary;
- (g) contribute financially to the project;

II.1.2 General obligations and role of each associated beneficiary

Each associated beneficiary shall:

- (a) inform the coordinating beneficiary immediately of any change likely to affect or delay the implementation of the project of which the beneficiary is aware, and, for LIFE Nature integrated projects, of any activity by third parties that is likely to have a significant negative impact on the sites/species targeted in the project, and if appropriate to take measures to persuade third parties to refrain from such activities;
- (b) inform the coordinating beneficiary immediately of any change in its legal, financial, technical, organisational or ownership situation or of its affiliated entities and of any change in its name, address or legal representative or of its affiliated entities;
- (c) submit in due time to the coordinating beneficiary:
 - (i) the data needed to draw up the reports, financial statements and other documents provided for in the Agreement;
 - (ii) all the necessary documents in the event of audits, checks or evaluation in accordance with Article II.27;

- (iii) any other information to be provided to the Agency/Commission according to the Agreement, except where the Agreement requires that such information is submitted directly by the beneficiary to the Agency/Commission.

II.1.3 General obligations and role of the coordinating beneficiary

The coordinating beneficiary shall:

- (a) monitor that the project is implemented in accordance with the Agreement;
- (b) be the intermediary for all communications between the beneficiaries and the Agency/Commission, except where provided otherwise in the Agreement, and, in particular, the coordinating beneficiary shall:
 - (i) immediately provide the Agency/Commission with the information related to any change in the name, address, legal representative as well as in the legal, financial, technical, organisational or ownership situation of any of the beneficiaries or of its affiliated entities, or to any event likely to affect or delay the implementation of the project, of which the coordinating beneficiary is aware, and, for LIFE Nature integrated projects, of any activity by third parties that is likely to have a significant negative impact on the sites/species targeted in the project, and if appropriate to take measures to persuade third parties to refrain from such activities;
 - (ii) bear responsibility for supplying all documents and information to the Agency/Commission which may be required under the Agreement, except where provided otherwise in the Agreement; where information is required from the other beneficiaries, the coordinating beneficiary shall bear responsibility for obtaining and verifying this information before passing it on to the Agency/Commission;
- (c) make the appropriate arrangements for providing any financial guarantees required under the Agreement;
- (d) establish the requests for payment in accordance with the Agreement;
- (e) ensure that all the appropriate payments are made to the other beneficiaries within 30 days of the receipt of the funds paid by the Agency/Commission unless there is a justified delay. The coordinating beneficiary shall inform the Agency/Commission of the distribution of the Union contribution;
- (f) bear responsibility for providing all the necessary documents in the event of checks and audits initiated before the payment of the balance, and in the event of evaluation in accordance with Article II.27 as well as for retaining copies of all supporting documents of all the associated beneficiaries for at least five years after the balance payment.

The coordinating beneficiary shall not subcontract any part of its tasks described in points (a) to (f) above to the other beneficiaries or to any other party.

The coordinating beneficiary shall conclude with all associated beneficiaries agreements describing their technical and financial participation in the project. Such agreements shall be fully compatible with the grant agreement signed with the Agency/Commission, shall make a precise reference to the present General Conditions and shall have, as a minimum, the contents described in the Guidelines issued by the Agency/Commission. The provisions of the grant agreement, including the mandates set out in its Annex II, Form A4, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary that may have an effect on the implementation of the grant agreement.

II.1.4 The role of the external monitoring team

To follow up the project, the Agency/Commission designates an external monitoring team (hereinafter “the external monitoring team”) to assist it by following and assessing the projects progress and their coherence with the actual costs incurred.

The external monitoring team shall not be authorised to take any decision on behalf of the Agency/Commission. A recommendation or a statement provided by the external monitoring team to the beneficiaries cannot be interpreted as representing a position of the Agency/Commission.

ARTICLE II.2 – COMMUNICATIONS BETWEEN THE PARTIES

II.2.1 Form and means of communications

Any communication relating to the Agreement or to its implementation shall be made in writing (in paper or electronic form), shall bear the number of the Agreement and the acronym of the project and shall be made using the communication details identified in Article I.6.

Before communicating directly with the Agency/Commission, the coordinating beneficiary shall consult the external monitoring team. Any correspondence relating to the Agreement or to its implementation sent by the coordinating beneficiary to the Agency/Commission shall be sent in parallel to the external monitoring team.

Electronic communications shall be confirmed by an original signed paper version of that communication if requested by any of the parties provided that this request is submitted without unjustified delay. The sender shall send the original signed paper version without unjustified delay.

Formal notifications shall be made by registered mail with return receipt or equivalent, or by equivalent electronic means.

II.2.2 Date of communications

Any communication is deemed to have been made when it is received by the receiving party, and, in the case of communication to the Agency/Commission, the external monitoring team, unless the agreement refers to the date when the communication was sent.

Electronic communication is deemed to have been received by the receiving party on the day of successful dispatch of that communication, provided that it is sent to the addressees listed in Article I.6 and Article II.2.1 has been observed. Dispatch shall be deemed unsuccessful if the sending party receives a message of non-delivery. In this case, the sending party shall immediately send again such communication to any of the other addresses listed in Article I.6. In case of unsuccessful dispatch, the sending party shall not be held in breach of its obligation to send such communication within a specified deadline.

Mail sent to the Agency/Commission using the postal services is considered to have been received by the Agency/Commission on the date on which it is registered by the department identified in Article I.6.2 or on the date on which it is received by the external monitoring team, whichever of these dates is later.

Formal notifications made by registered mail with return receipt or equivalent, or by equivalent electronic means, shall be considered to have been received by the receiving party on the date of receipt indicated on the return receipt or equivalent.

ARTICLE II.3 – LIABILITY FOR DAMAGES

II.3.1 The Agency/Commission shall not be held liable for any damage caused or sustained by any of the beneficiaries, including any damage caused to third parties as a consequence of or during the implementation of the project.

II.3.2 Except in cases of force majeure, the beneficiaries shall compensate the Agency/Commission for any damage sustained by it as a result of the implementation of the project or because the project was not implemented or implemented poorly, partially or late.

ARTICLE II.4 - CONFLICT OF INTERESTS

II.4.1 The beneficiaries shall take all necessary measures to prevent any situation where the impartial and objective implementation of the Agreement is compromised for reasons involving economic interest, political or national affinity, family or emotional ties or any other shared interest (“conflict of interests”).

II.4.2 Any situation constituting or likely to lead to a conflict of interests during the implementation of the Agreement shall be notified to the Agency/Commission, in writing, without delay. The beneficiaries shall immediately take all the necessary steps to rectify this situation. The Agency/Commission reserves the right to verify that the measures taken are appropriate and may require additional measures to be taken within a specified deadline.

ARTICLE II.5 – CONFIDENTIALITY

II.5.1 The Agency/Commission and the beneficiaries shall preserve the confidentiality of any information and documents, in any form, which are disclosed in writing or orally

in relation to the implementation of the Agreement and which are explicitly indicated in writing as confidential.

II.5.2 The beneficiaries shall not use confidential information and documents for any reason other than fulfilling their obligations under the Agreement, unless otherwise agreed with the Agency/Commission in writing.

II.5.3 The Agency/Commission and the beneficiaries shall be bound by the obligations referred to in Articles II.5.1 and II.5.2 during the implementation of the Agreement and for a period of five years starting from the payment of the balance, unless:

- (a) the party concerned agrees to release the other party from the confidentiality obligations earlier;
- (b) the confidential information becomes public through other means than in breach of the confidentiality obligation through disclosure by the party bound by that obligation;
- (c) the disclosure of the confidential information is required by law.

II.5.4 The external monitoring team shall act under the same confidentiality rules as those stipulated for the beneficiaries and the Agency/Commission.

ARTICLE II.6 – PROCESSING OF PERSONAL DATA

II.6.1 Processing of personal data by the Agency/Commission

Any personal data included in the Agreement shall be processed by the Agency/Commission pursuant to Regulation (EC) No 45/2001 of the European Parliament and of the Council of 18 December 2000 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movement of such data.

Such data shall be processed by the data controller identified in Article I.6.1 solely for the purposes of the implementation, management and monitoring of the Agreement, without prejudice to possible transmission to the bodies charged with the monitoring or inspection tasks in application of Union law.

The beneficiaries shall have the right of access to their personal data and the right to rectify any such data. Should the beneficiaries have any queries concerning the processing of their personal data, they shall address them to the data controller, identified in Article I.6.1.

The beneficiaries shall have the right of recourse at any time to the European Data Protection Supervisor.

II.6.2 Processing of personal data by the beneficiaries

Where the Agreement requires the processing of personal data by the beneficiaries, the beneficiaries may act only under the supervision of the data controller identified in Article

I.6.1, in particular with regard to the purpose of the processing, the categories of data which may be processed, the recipients of the data and the means by which the data subject may exercise his or her rights.

The access to data that the beneficiaries grant to their personnel shall be limited to the extent strictly necessary for the implementation, management and monitoring of the Agreement.

The beneficiaries undertake to adopt appropriate technical and organisational security measures having regard to the risks inherent in the processing and to the nature of the personal data concerned, in order to:

- (a) prevent any unauthorised person from gaining access to computer systems processing personal data, and especially:
 - (i) unauthorised reading, copying, alteration or removal of storage media;
 - (ii) unauthorised data input as well as any unauthorised disclosure, alteration or erasure of stored personal data;
 - (iii) unauthorised persons from using data-processing systems by means of data transmission facilities;
- (b) ensure that authorised users of a data-processing system can access only the personal data to which their access right refers;
- (c) record which personal data have been communicated, when and to whom;
- (d) ensure that personal data being processed on behalf of third parties can be processed only in the manner prescribed by the Agency/Commission;
- (e) ensure that, during communication of personal data and transport of storage media, the data cannot be read, copied or erased without authorisation;
- (f) design their organisational structure in such a way that it meets data protection requirements.

ARTICLE II.7 – VISIBILITY OF UNION FUNDING

II.7.1 Information on Union funding and use of the LIFE Programme logo

- (a) Unless the Agency/Commission requests or agrees otherwise, any communication or publication related to the project, made by the beneficiaries jointly or individually, including at conferences, seminars or in any information or promotional materials (such as brochures, leaflets, posters, presentations, websites, noticeboards, etc.), shall indicate that the project has received funding from the Union and shall display the *LIFE Programme logo* (Annex II to the LIFE Regulation, <http://ec.europa.eu/environment/life/toolkit/comtools/resources/logos.htm>). For audio-visual material, the credits at the beginning and/or at the end shall include an explicit

audible and readable mention to the LIFE financial support (e.g. “With the contribution of the LIFE Programme of the European Union”).

All durable goods acquired in the framework of the project shall bear the LIFE logo unless otherwise specified by the Agency/Commission.

When displayed in association with another logo, the LIFE Programme logo must have appropriate prominence.

The obligation to display the LIFE Programme logo does not confer to the beneficiaries a right of exclusive use. The beneficiaries shall not appropriate the LIFE Programme logo or any similar trademark or logo, either by registration or by any other means. The LIFE logo may not be referred to as a certified quality label or eco-label. Its use shall be restricted to dissemination activities.

For projects in Natura 2000 sites or contributing to the integrity of the Natura 2000 network, the obligations regarding the LIFE Programme logo also apply for the Natura 2000 logo (<http://ec.europa.eu/environment/life/toolkit/comtools/resources/logos.htm>). The project’s importance in terms of establishing the Natura 2000 network must be described in the notice boards and on the websites.

- (b) The coordinating beneficiary shall create a *project website* or use an existing website in at least one official language of the European Union for the dissemination of project activities, progress and results. The web address where the main results of the project are available to the public shall be indicated in the reports. This website shall be online at the latest six months after the starting date as specified in Article I.2.2, shall be regularly updated and shall be kept for at least five years after the end of the project. A summary of the project in English language, including name and contact information of the coordinating beneficiary, will be placed on the LIFE website and made available to the general public.
- (c) The beneficiaries shall erect and maintain *notice boards* describing the project at the locations where it is implemented, at strategic places accessible and visible to the public.

II.7.2 Disclaimers excluding Agency/Commission responsibility

Any communication or publication related to the project, made by the beneficiaries jointly or individually in any form and using any means, shall indicate that it reflects only the author's view and that the Agency/Commission is not responsible for any use that may be made of the information it contains.

ARTICLE II.8 – PRE-EXISTING RIGHTS AND OWNERSHIP AND USE OF THE RESULTS (INCLUDING INTELLECTUAL AND INDUSTRIAL PROPERTY RIGHTS)

II.8.1 Ownership of the results by the beneficiaries and exploitation of results

Unless stipulated otherwise in the Agreement, ownership of the results of the project, including industrial and intellectual property rights, and of the reports and other documents relating to it, shall be vested in the beneficiaries.

With a view to promoting the use of techniques or models favourable to the environment, the beneficiaries shall ensure that all documents, patents and know-how directly resulting from the project implementation shall be made available throughout the Union as soon as they are available, on non-discriminatory and reasonable commercial conditions. The beneficiaries shall comply with this obligation for a period of five years after the final payment.

Should the coordinating beneficiary, for no legitimate reason, refuse to give access to these products or to grant licences under these conditions, the Agency/Commission reserves the right to apply the rules in Article II.16 or, if the project has ended, to demand full or partial repayment of the Union contribution.

II.8.2 Pre-existing industrial and intellectual property rights

Where industrial and intellectual property rights, including rights of third parties, exist prior to the conclusion of the Agreement, the beneficiaries shall establish a list which shall specify all rights of ownership and use of the pre-existing industrial and intellectual property rights and disclose it to the Agency/Commission at the latest before the commencement of implementation.

The beneficiaries shall ensure that they or their affiliated entities have all the rights to use any pre-existing industrial and intellectual property rights during the implementation of the Agreement.

II.8.3 Rights of use of the results and of pre-existing rights by the Union

Without prejudice to Articles II.1.1, II.3, II.5 and II.8.1, the beneficiaries grant the Union the right to use the results of the project for the following purposes:

- (a) use for its own purposes, and in particular, making available to persons working for the Agency/Commission, the Commission, other Union institutions, agencies and bodies and to Member States' institutions, as well as, copying and reproducing in whole or in part and in unlimited number of copies;
- (b) distribution to the public completely or partially, and in particular, publication in hard copies and in electronic or digital format, publication on the internet, including on the Europa website, as a downloadable or non-downloadable file, including photographs as illustration,, broadcasting by any kind of technique of transmission including dubbed, if necessary, public display or presentation, communication through press information services, inclusion in widely accessible databases, indexes or publications;
- (c) translation;
- (d) giving access upon individual requests without the right to reproduce or exploit, as provided for by Regulation (EC) No 1049/2001 of the European Parliament and of the Council of 30 May 2001 regarding public access to European Parliament, Council and Commission documents;

- (e) storage in paper, electronic or other format;
- (f) archiving in line with the document management rules applicable to the Agency/Commission;
- (g) rights to authorise or sub-licence the modes of exploitation set out in points (b) and (c) to third parties.

Additional rights of use for the Union may be provided for in the Special Conditions.

The beneficiaries shall warrant that the Union has the right to use any pre-existing industrial and intellectual property rights, which have been included in the results of the project. Unless specified otherwise in the Special Conditions, those pre-existing rights shall be used for the same purposes and under the same conditions applicable to the rights of use of the results of the project.

Information about the copyright owner shall be inserted when the result is divulged by the Union. The copyright information shall read: "© – year – name of the copyright owner. All rights reserved. Licenced to the European Union under conditions."

The Agency/Commission undertakes to credit the results of the projects by indicating the grant agreement reference number.

ARTICLE II.9 – AWARD OF CONTRACTS NECESSARY FOR THE IMPLEMENTATION OF THE PROJECT

II.9.1 Where the implementation of the project requires the procurement of goods, works or services, the beneficiaries shall award the contract to the tender offering best value for money or, as appropriate, to the tender offering the lowest price. In doing so, they shall avoid any conflict of interests. Tendering procedures shall comply with the principles of transparency and equal treatment of potential contractors. For all contracts, the beneficiaries must maintain a written record of the procedure used to ensure that these conditions are fulfilled in the tendering procedure.

Beneficiaries acting in their capacity of contracting authorities within the meaning of Directive 2004/18/EC of the European Parliament and of the Council of 31 March 2004 on the coordination of procedures for the award of public work contracts, public supply contracts and public service contracts or contracting entities within the meaning of Directive 2004/17/EC of the European Parliament and of the Council of 31 March 2004 coordinating the procurement procedures of entities operating in the water, energy, transport and postal services sectors shall abide by the applicable national public procurement rules.

Where the value of a contract exceeds EUR 130,000, all beneficiaries shall use an open tendering procedure, including a publication of the call for tender(s) in the relevant media. To establish the relevant threshold, the beneficiary shall consider together the value of all linked items.

Below the threshold of EUR 130,000 or the threshold set out in the applicable public national procurement rules, the beneficiary shall award the contract to the tender offering best value for money or, as appropriate, to the tender offering the lowest price, while avoiding any conflict of interests and maintain written evidence of how the criterion of best value for money was met.

II.9.2 The beneficiaries shall retain sole responsibility for carrying out the project and for compliance with the provisions of the Agreement. The beneficiaries shall ensure that any procurement contract contains provisions stipulating that the contractor has no rights vis-à-vis the Agency/Commission under the Agreement.

II.9.3. The beneficiaries shall ensure that the conditions applicable to them under Articles II.3, II.4, II.5, II.8 and II.27 are also applicable to the contractor.

ARTICLE II.10 – SUBCONTRACTING OF TASKS FORMING PART OF THE PROJECT

II.10.1 A "subcontract" is a procurement contract within the meaning of Article II.9, which covers the implementation by a third party of tasks forming part of the project as described in Annex II.

II.10.2 Beneficiaries may subcontract specific tasks of a fixed duration, forming part of the project, provided that, in addition to the conditions specified in Article II.9 and the Special Conditions, the following conditions are complied with:

- (a) subcontracting only covers the implementation of a limited part of the project;
- (b) recourse to subcontracting is justified having regard to the nature of the project and what is necessary for its implementation;
- (c) the beneficiaries ensure that
 - the conditions applicable to them under Article II.7 are also applicable to the subcontractor;
 - all invoices issued by subcontractors bear a clear reference to the LIFE project (i.e. number and title or short title) and to the order/subcontract issued by the beneficiaries;
 - all invoices issued by subcontractors are sufficiently detailed as to allow identification of single items covered by the service delivered (i.e. clear description and cost of each item).

ARTICLE II.11 - FINANCIAL SUPPORT TO THIRD PARTIES

II.11.1 Where the implementation of the project requires giving financial support to third parties, the beneficiaries shall give such financial support in accordance with the conditions specified in Annex II, which shall at least contain:

- (a) the maximum amount of financial support, which shall not exceed EUR 15 000 for each third party and a total of EUR 100 000 for the project period;
- (b) the criteria for determining the exact amount of the financial support;
- (c) the different types of activity that may receive financial support, on the basis of a fixed list;
- (d) the definition of the persons or categories of persons which may receive financial support;
- (e) the criteria for giving the financial support.

II.11.2 Not applicable.

II.11.3 The beneficiaries shall ensure that the conditions applicable to them under Articles II.3, II.4, II.5, II.7, II.8 and II.27 are also applicable to the third parties receiving financial support.

ARTICLE II.12 – AMENDMENTS TO THE AGREEMENT

II.12.1 Any amendment to the Agreement shall be made in writing.

II.12.2 An amendment may not have the purpose or the effect of making changes to the Agreement which would call into question the decision awarding the grant or be contrary to the equal treatment of applicants.

Only substantial changes require a formal amendment of the grant agreement and will only be accepted in duly justified cases.

Three months before the end of each project phase as specified in Annex II and together with the related interim report according to Article II.23.2, the coordinating beneficiary submits an amendment request to update the implementation plan including the budget for the following project phase.

II.12.3 Any request for amendment shall be duly justified and shall be sent to the other party in due time before it is due to take effect, and in any case one month before the end of the period set out in Article I.2.2, except in cases duly substantiated by the party requesting the amendment and accepted by the other party.

II.12.4 A request for amendment on behalf of the beneficiaries shall be submitted by the coordinating beneficiary. If a change of coordinating beneficiary is requested without its agreement, the request shall be submitted by all other beneficiaries.

II.12.5 Amendments shall enter into force on the date on which the last party signs or on the date of approval of the request for amendment.

Amendments shall take effect on a date agreed by the parties or, in the absence of such an agreed date, on the date on which the amendment enters into force.

ARTICLE II.13 – ASSIGNMENT OF CLAIMS FOR PAYMENTS TO THIRD PARTIES

II.13.1 Claims for payments of the beneficiaries against the Agency/Commission may not be assigned to third parties, except in duly justified cases where the situation warrants it.

The assignment shall only be enforceable against the Agency/Commission if it has accepted the assignment on the basis of a written and reasoned request to that effect made by the coordinating beneficiary on behalf of the beneficiaries. In the absence of such an acceptance, or in the event of failure to observe the terms thereof, the assignment shall have no effect on the Agency/Commission.

II.13.2 In no circumstances shall such an assignment release the beneficiaries from their obligations towards the Agency/Commission.

ARTICLE II.14 – FORCE MAJEURE

II.14.1 "*Force majeure*" shall mean any unforeseeable exceptional situation or event beyond the parties' control, which prevents either of them from fulfilling any of their obligations under the Agreement, which was not attributable to error or negligence on their part or on the part of subcontractors, affiliated entities or third parties involved in the implementation and which proves to be inevitable in spite of exercising all due diligence. Any default of a service, defect in equipment or material or delays in making them available, unless they stem directly from a relevant case of force majeure, as well as labour disputes, strikes or financial difficulties cannot be invoked as *force majeure*.

II.14.2 A party faced with *force majeure* shall formally notify the other party without delay, stating the nature, likely duration and foreseeable effects.

II.14.3 The parties shall take the necessary measures to limit any damage due to *force majeure*. They shall do their best to resume the implementation of the project as soon as possible.

II.14.4 The party faced with *force majeure* shall not be held to be in breach of its obligations under the Agreement if it has been prevented from fulfilling them by *force majeure*.

ARTICLE II.15 – SUSPENSION OF THE IMPLEMENTATION OF THE PROJECT

II.15.1 Suspension of the implementation by the beneficiaries

The coordinating beneficiary, on behalf of the beneficiaries, may suspend the implementation of the project or any part thereof, if exceptional circumstances make such implementation

impossible or excessively difficult, in particular in the event of *force majeure*. The coordinating beneficiary shall inform the Agency/Commission without delay, giving all the necessary reasons and details and the foreseeable date of resumption.

Unless the Agreement or the participation of a beneficiary is terminated in accordance with Articles II.16.1, II.16.2 or points (c) or (d) of Article II.16.3.1, the coordinating beneficiary shall, once the circumstances allow resuming the implementation of the project, inform the Agency/Commission immediately and present a request for amendment of the Agreement as provided for in Article II.15.3.

II.15.2 Suspension of the implementation by the Agency/Commission

II.15.2.1 The Agency/Commission may suspend the implementation of the project or any part thereof:

- (a) if the Agency/Commission has evidence that a beneficiary has committed substantial errors, irregularities or fraud in the award procedure or in the implementation of the Agreement or if a beneficiary fails to comply with its obligations under the Agreement;
- (b) if the Agency/Commission has evidence that a beneficiary has committed systemic or recurrent errors, irregularities, fraud or breach of obligations under other grants funded by the Union or the European Atomic Energy Community which were awarded to that beneficiary under similar conditions, provided that those errors, irregularities, fraud or breach of obligations have a material impact on this grant; or
- (c) if the Agency/Commission suspects substantial errors, irregularities, fraud or breach of obligations committed by a beneficiary in the award procedure or in the implementation of the Agreement and needs to verify whether they have actually occurred.

II.15.2.2 Before suspending the implementation the Agency/Commission shall formally notify the coordinating beneficiary of its intention to suspend, specifying the reasons thereof, and, in the cases referred to in points (a) and (b) of Article II.15.2.1, the necessary conditions for resuming the implementation. The coordinating beneficiary shall be invited to submit observations on behalf of all beneficiaries within 30 calendar days from receipt of this notification.

If, after examination of the observations submitted by the coordinating beneficiary, the Agency/Commission decides to stop the suspension procedure, it shall formally notify the coordinating beneficiary thereof.

If no observations have been submitted or if, despite the observations submitted by the coordinating beneficiary, the Agency/Commission decides to pursue the suspension procedure, it may suspend the implementation by formally notifying the coordinating beneficiary thereof, specifying the reasons for the suspension and, in the cases referred to in points (a) and (b) of Article II.15.2.1, the definitive conditions for resuming the implementation or, in the case referred to in point (c)

of Article II.15.2.1, the indicative date of completion of the necessary verification.

The coordinating beneficiary shall inform the other beneficiaries immediately. The suspension shall take effect five calendar days after the receipt of the notification by the coordinating beneficiary or on a later date, where the notification so provides.

In order to resume the implementation, the beneficiaries shall endeavour to meet the notified conditions as soon as possible and shall inform the Agency/Commission of any progress made in this respect.

Unless the Agreement or the participation of a beneficiary is terminated in accordance with Articles II.16.1, II.16.2 or points (c), (i) or (j) of Article II.16.3.1, the Agency/Commission shall, as soon as it considers that the conditions for resuming the implementation have been met or the necessary verification, including on-the-spot checks, has been carried out, formally notify the coordinating beneficiary thereof and invite the coordinating beneficiary to present a request for amendment of the Agreement as provided for in Article II.15.3.

II.15.3 Effects of the suspension

If the implementation of the project can be resumed and the Agreement is not terminated, an amendment to the Agreement shall be made in accordance with Article II.12 in order to establish the date on which the project shall be resumed, to extend the duration of the project and to make any other modifications that may be necessary to adapt the project to the new implementing conditions.

The suspension is deemed lifted as from the date of resumption of the project agreed by the parties in accordance with the first subparagraph. Such a date may be before the date on which the amendment enters into force.

Any costs incurred by the beneficiaries, during the period of suspension, for the implementation of the suspended project or the suspended part thereof, shall not be reimbursed or covered by the grant.

The right of the Agency/Commission to suspend the implementation is without prejudice to its right to terminate the Agreement or the participation of a beneficiary in accordance with Article II.16.3 and its right to reduce the grant or recover amounts unduly paid in accordance with Articles II.25.4 and II.26.

Neither party shall be entitled to claim compensation on account of a suspension by the other party.

ARTICLE II.16 – TERMINATION OF THE AGREEMENT

II.16.1 Termination of the Agreement by the coordinating beneficiary

In duly justified cases, the coordinating beneficiary, on behalf of all beneficiaries, may terminate the Agreement by formally notifying the Agency/Commission thereof, stating clearly the reasons and specifying the date on which the termination shall take effect. The notification shall be sent before the termination is due to take effect.

If no reasons are given or if the Agency/Commission considers that the reasons exposed cannot justify the termination, it shall formally notify the coordinating beneficiary, specifying the grounds thereof, and the Agreement shall be deemed to have been terminated improperly, with the consequences set out in the fourth subparagraph of Article II.16.4.

II.16.2 Termination of the participation of one or more beneficiaries by the coordinating beneficiary

In duly justified cases, the participation of any one or several beneficiaries in the Agreement may be terminated by the coordinating beneficiary, acting on request of that beneficiary or those beneficiaries, or on behalf of all the other beneficiaries. When notifying such termination to the Agency/Commission, the coordinating beneficiary shall include the reasons for the termination of the participation, the opinion of the beneficiary or beneficiaries the participation of which is terminated, the date on which the termination shall take effect and the proposal of the remaining beneficiaries relating to the reallocation of the tasks of that beneficiary or those beneficiaries or, where relevant, to the nomination of one or more replacements which shall succeed that beneficiary or those beneficiaries in all their rights and obligations under the Agreement. The notification shall be sent before the termination is due to take effect.

If no reasons are given or if the Agency/Commission considers that the reasons exposed cannot justify the termination, it shall formally notify the coordinating beneficiary, specifying the grounds thereof, and the participation shall be deemed to have been terminated improperly, with the consequences set out in the fourth subparagraph of Article II.16.4.

Without prejudice to Article II.12.2, an amendment to the Agreement shall be made, in order to introduce the necessary modifications.

II.16.3 Termination of the Agreement or the participation of one or more beneficiaries by the Agency/Commission

II.16.3.1 The Agency/Commission may decide to terminate the Agreement or the participation of any one or several beneficiaries participating in the project, in the following circumstances:

- (a) if a change to the beneficiary's legal, financial, technical, organisational or ownership situation is likely to affect the implementation of the Agreement substantially or calls into question the decision to award the grant;
- (b) if, following the termination of the participation of any one or several beneficiaries, the necessary modifications to the Agreement would call into question the decision awarding the grant or would result in unequal treatment of applicants;

- (c) if the beneficiaries do not implement the project as specified in Annex II or if a beneficiary fails to comply with another substantial obligation incumbent on it under the terms of the Agreement;
- (d) in the event of *force majeure*, notified in accordance with Article II.14, or in the event of suspension by the coordinating beneficiary as a result of exceptional circumstances, notified in accordance with Article II.15, where resuming the implementation is impossible or where the necessary modifications to the Agreement would call into question the decision awarding the grant or would result in unequal treatment of applicants;
- (e) if a beneficiary is declared bankrupt, is being wound up, is having its affairs administered by the courts, has entered into an arrangement with creditors, has suspended business activities, is the subject of any other similar proceedings concerning those matters, or is in an analogous situation arising from a similar procedure provided for in national legislation or regulations;
- (f) if a beneficiary or any related person, as defined in the second subparagraph, have been found guilty of professional misconduct proven by any means;
- (g) if a beneficiary is not in compliance with its obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which it is established or in which the project is implemented;
- (h) if the Agency/Commission has evidence that a beneficiary or any related person, as defined in the second subparagraph, have committed fraud, corruption, or are involved in a criminal organisation, money laundering or any other illegal activity detrimental to the Union's financial interests;
- (i) if the Agency/Commission has evidence that a beneficiary or any related person, as defined in the second subparagraph, have committed substantial errors, irregularities or fraud in the award procedure or in the implementation of the Agreement, including in the event of submission of false information or failure to submit required information in order to obtain the grant provided for in the Agreement; or
- (j) if the Agency/Commission has evidence that a beneficiary has committed systemic or recurrent errors, irregularities, fraud or breach of obligations under other grants funded by the Union or the European Atomic Energy Community which were awarded to that beneficiary under similar conditions, provided that those errors, irregularities, fraud or breach of obligations have a material impact on this grant.

For the purposes of points (f), (h) and (i), "any related person" shall mean any natural person who has the power to represent the beneficiary or to take decisions on its behalf.

II.16.3.2 Before terminating the Agreement or the participation of any one or several beneficiaries, the Agency/Commission shall formally notify the coordinating beneficiary of its intention to terminate, specifying the reasons thereof and inviting the coordinating beneficiary, within 45 calendar days from receipt of the notification, to submit observations on behalf of all beneficiaries and, in the case of point (c) of Article II.16.3.1, to inform the Agency/Commission about the measures taken to ensure that the beneficiaries continue to fulfil their obligations under the Agreement.

If, after examination of the observations submitted by the coordinating beneficiary, the Agency/Commission decides to stop the termination procedure, it shall formally notify the coordinating beneficiary thereof.

If no observations have been submitted or if, despite the observations submitted by the coordinating beneficiary, the Agency/Commission decides to pursue the termination procedure, it may terminate the Agreement or the participation of any one or several beneficiaries by formally notifying the coordinating beneficiary thereof, specifying the reasons for the termination.

In the cases referred to in points (a), (b), (c), (e) and (g) of Article II.16.3.1, the formal notification shall specify the date on which the termination takes effect. In the cases referred to in points (d), (f), (h), (i) and (j) of Article II.16.3.1, the termination shall take effect on the day following the date on which the formal notification was received by the coordinating beneficiary.

II.16.4 Effects of termination

Where the Agreement is terminated, payments by the Agency/Commission shall be limited to the amount determined in accordance with Article II.25 on the basis of the eligible costs incurred by the beneficiaries and the actual level of implementation of the project on the date when the termination takes effect. Costs relating to current commitments, which are not due for execution until after the termination, shall not be taken into account. The coordinating beneficiary shall have 60 days from the date when the termination of the Agreement takes effect, as provided for in Articles II.16.1 and II.16.3.2, to produce a request for payment of the balance in accordance with Article II.23.2. If no request for payment of the balance is received within this time limit, the Agency/Commission shall not reimburse or cover any costs which are not included in a financial statement approved by it or which are not justified in a technical report approved by it. In accordance with Article II.26, the Agency/Commission shall recover any amount already paid, if its use is not substantiated by the technical reports and, where applicable, by the financial statements approved by the Agency/Commission.

Where the participation of a beneficiary is terminated, the beneficiary concerned shall submit to the coordinating beneficiary a technical report and, where applicable, a financial statement covering the period from the end of the last reporting period according to Article I.4 for which a report has been submitted to the Agency/Commission to the date on which the termination takes effect. The technical report and the financial statement shall be submitted in due time to allow the coordinating beneficiary to draw up the corresponding payment request.

Only those costs incurred by the beneficiary concerned up to the date when termination of its participation takes effect shall be reimbursed or covered by the grant. Costs relating to current commitments, which were not due for execution until after the termination, shall not be taken into account. The request for payment for the beneficiary concerned shall be included in the next payment request submitted by the coordinating beneficiary in accordance with the schedule laid down in Article I.4.

Where the Agency/Commission, in accordance with point (c) of Article II.16.3.1, is terminating the Agreement on the grounds that the coordinating beneficiary has failed to produce the request for payment and, after a reminder, has still not complied with this obligation within the deadline set out in Article II.23.3, the first subparagraph shall apply, subject to the following:

- (a) there shall be no additional time period from the date when the termination of the Agreement takes effect for the coordinating beneficiary to produce a request for payment of the balance in accordance with Article II.23.2; and
- (b) the Agency/Commission shall not reimburse or cover any costs incurred by the beneficiaries up to the date of termination or up to the end of the period set out in Article I.2.2, whichever is the earlier, which are not included in a financial statement approved by it or which are not justified in a technical report approved by it.

In addition to the first, second and third subparagraphs, where the Agreement or the participation of a beneficiary is terminated improperly by the coordinating beneficiary within the meaning of Articles II.16.1 and II.16.2, or where the Agreement or the participation of a beneficiary is terminated by the Agency/Commission on the grounds set out in points (c), (f), (h), (i) and (j) of Article II.16.3.1, the Agency/Commission may also reduce the grant or recover amounts unduly paid in accordance with Articles II.25.4 and II.26, in proportion to the gravity of the failings in question and after allowing the coordinating beneficiary, and, where relevant, the beneficiaries concerned, to submit their observations.

Neither party shall be entitled to claim compensation on account of a termination by the other party.

ARTICLE II.17 – ADMINISTRATIVE AND FINANCIAL PENALTIES

II.17.1 By virtue of Articles 109 and 131(4) of Regulation (EU, Euratom) No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union and with due regard to the principle of proportionality, a beneficiary which has committed substantial errors, irregularities or fraud, has made false declarations in supplying required information or has failed to supply such information at the moment of the submission of the application or during the implementation of the grant, or has been found in serious breach of its obligations under the Agreement shall be liable to:

- (a) administrative penalties consisting of exclusion from all contracts and grants financed by the Union budget for a maximum of five years from the date on

which the infringement is established and confirmed following a contradictory procedure with the beneficiary; and/or

- (b) financial penalties of 2% to 10% of the value of the contribution the beneficiary concerned is entitled to in accordance with the estimated budget set out in Annex III.

In the event of another infringement within five years following the establishment of the first infringement, the period of exclusion under point (a) may be extended to 10 years and the range of the rate referred to in point (b) may be increased to 4% to 20%.

- II.17.2** The Agency/Commission shall formally notify the beneficiary concerned of any decision to apply such penalties.

The Agency/Commission is entitled to publish such decision under the conditions and within the limits specified in Article 109(3) of Regulation (EU, Euratom) No 966/2012.

An project may be brought against such decision before the General Court of the European Union, pursuant to Article 263 of the Treaty on the Functioning of the European Union ("TFEU").

ARTICLE II.18 – APPLICABLE LAW, SETTLEMENT OF DISPUTES AND ENFORCEABLE DECISION

- II.18.1** The Agreement is governed by the applicable Union law complemented, where necessary, by the law of Belgium.
- II.18.2** Pursuant to Article 272 TFEU, the General Court or, on appeal, the Court of Justice of the European Union, shall have sole jurisdiction to hear any dispute between the Union and any beneficiary concerning the interpretation, application or validity of this Agreement, if such dispute cannot be settled amicably.
- II.18.3** By virtue of Article 299 TFEU, for the purposes of recoveries within the meaning of Article II.26 or financial penalties, the Agency/Commission may adopt an enforceable decision to impose pecuniary obligations on persons other than States. An project may be brought against such decision before the General Court of the European Union pursuant to Article 263 TFEU.
- II.18.4** By derogation from Article II.18.2, where a beneficiary is legally established in a country other than a Member State of the European Union (the 'non EU beneficiary'), the Agency/Commission and/or the non EU beneficiary may bring before the Belgian Courts any dispute between the Union and the non EU beneficiary concerning the interpretation, application or validity of the Agreement, if such dispute cannot be settled amicably. In such case where one party (i.e. the Agency/Commission or the non EU beneficiary) has brought proceedings before the Belgian Courts concerning the interpretation, application or validity of the

Agreement, the other party may not bring a claim arising from the interpretation, application or validity of the Agreement in any other court than the Belgian Courts already seized.

PART B – FINANCIAL PROVISIONS

ARTICLE II.19 – ELIGIBLE COSTS

II.19.1 Conditions for the eligibility of costs

"Eligible costs" of the project are costs actually incurred by the beneficiary which meet the following criteria:

- (a) they are incurred in the period set out in Article I.2.2, with the exception of costs relating to the request for payment of the balance and the corresponding supporting documents referred to in Article II.23.2;

A cost shall be considered as incurred in the period set out in Article I.2.2 when:

- the legal obligation to pay was contracted after the starting date and before the end date of the project, or after the signature of the grant agreement by the Agency/Commission in case this signature takes place before the project starting date;
- (b) they are indicated in the estimated budget of the project set out in Annex III or have been accepted by the Agency/Commission as necessary to achieve the objectives of the project;
 - (c) they are incurred in connection with the project as described in Annex II and are necessary for its implementation;
 - (d) they are identifiable and verifiable, in particular being recorded in the accounting records of the beneficiary and determined according to the applicable accounting standards of the country where the beneficiary is established and with the usual cost accounting practices of the beneficiary;
 - (e) they comply with the requirements of applicable tax and social legislation; and
 - (f) they are reasonable, justified, and comply with the principle of sound financial management, in particular regarding economy and efficiency.

II.19.2 Eligible direct costs

"Direct costs" of the project are those specific costs which are directly linked to the implementation of the project and can therefore be attributed directly to it. They may not include any indirect costs.

To be eligible, direct costs shall comply with the conditions of eligibility set out in Article II.19.1.

In particular, the following categories of costs are eligible direct costs, provided that they satisfy the conditions of eligibility set out in Article II.19.1 as well as the following conditions:

(a) the **costs of personnel** (also referred to as “direct personal cost”) working under an employment contract with the beneficiary or an equivalent appointing act and assigned to the project, comprising actual salaries plus social security contributions and other statutory costs included in the remuneration, provided that these costs are in line with the beneficiary's usual policy on remuneration;

The costs of natural persons working under a contract with the coordinating beneficiary or an associated beneficiary other than an employment contract may be assimilated to such costs of personnel, provided that the following conditions are fulfilled:

- (i) the natural person works under the instructions of the beneficiary and, unless otherwise agreed with the beneficiary, in the premises of the beneficiary;
- (ii) the result of the work belongs to the beneficiary; and
- (iii) the costs are not significantly different from the costs of personnel performing similar tasks under an employment contract with the beneficiary.

The sum of the public contributions as beneficiaries to the project budget must exceed by at least 2 % the sum of the salary costs charged to the project described in Annex II for public body employees who are not considered 'additional'.

'Additional' personnel includes all employees – permanent or temporary – of public bodies whose contracts or contract renewals:

- start on or after the start date of the project or on or after the date of signature of the grant agreement by the Agency/Commission in case this date takes place before the project start date, and
- specifically second/assign them to the project.

For *LIFE Capacity Building projects*, the costs of non-additional personnel of public bodies are not eligible.

- (b) **costs of travel and related subsistence allowances**, provided that these costs are in line with the beneficiary's usual practices on travel;
- (c) the **depreciation costs of durable goods** in the form of **new or second-hand equipment or infrastructure** as recorded in the accounting statements of the beneficiary (i.e. placed on its inventory or other type of registry of durable goods or treated as capital expenditure in accordance with the applicable tax and accounting rules), provided that the asset has been purchased in accordance with Article II.9 and that it is written off in accordance with the international accounting standards and the usual accounting practices of the beneficiary.

The costs of **rental or lease of equipment or infrastructure** are also eligible, provided that these costs do not exceed the depreciation costs of similar equipment or assets as calculated above and are exclusive of any finance fee;

Only the portion of the equipment's depreciation, rental or lease costs corresponding to the period set out in Article I.2.2 and the rate of actual use for the purposes of the project may be taken into account.

The eligible depreciation costs may not exceed the following ceilings:

- Equipment costs: 50% of the total purchase cost,
- Infrastructure costs: 25% of the total purchase cost;

As an exception, for *prototypes* 100% of the purchase costs of their components are eligible for co-funding.

A prototype is equipment or infrastructure specifically created for the implementation of the project and that has never been commercialised and/or is not available as a serial product. The prototype must play a crucial role in the demonstration activities of the project.

A prototype may not be used for commercial purposes during the period set out in Article I.2.2. Should the prototype or any of its components be used for commercial purposes (i.e. sold, leased, rented or used to produce goods or services) during the project, this shall be declared. The costs of creating the prototype shall then be depreciated in accordance with the rules applicable to the purchase of new or second-hand equipment and infrastructure.

The purchase costs incurred for durable goods by *public authorities or non-profit organisations* (also referred to as non-governmental / non-commercial organisations), intrinsically connected with the implementation of the project and used to a significant degree within its duration shall be considered eligible in full. Such eligibility shall be subject to the coordinating beneficiary and associated beneficiaries undertaking to continue to assign these goods definitively to activities implementing the targeted plan beyond the end of the integrated project.

Costs incurred for the purchase of durable goods, including notice boards, can only be eligible if they bear the *LIFE logo* (and the Natura 2000 logo, when applicable);

- (d) costs of *consumables and supplies* with the exception of general office consumables and supplies, provided that they are purchased in accordance with Article II.9 and are directly assigned to the project ;
- (e) *other costs* arising directly from requirements imposed by the Agreement (dissemination of information, specific evaluation of the project, audits, translations, reproduction), including the costs of requested financial guarantees, provided that the corresponding services are purchased in accordance with Article II.9. Costs incurred for the production of communication material, including websites, can only be eligible if they are bearing the LIFE logo (and the Natura 2000 logo, when applicable);
- (f) costs entailed by *subcontracts* (also referred to as external assistance costs) within the meaning of Article II.10 for services or works, provided that the conditions laid down in that Article are met;
- (g) not applicable;
- (h) duties, taxes and charges paid by the beneficiary, notably value added tax (VAT), provided that they are included in eligible direct costs, and unless specified otherwise in the Agreement are also considered other costs. Non-deductible VAT is eligible as

expenditure, save for those activities matching the concept of sovereign powers exercised by Member States. For activities not matching the concept of sovereign authority, public authorities have to provide a certificate established by the competent national authority. Furthermore, for VAT charges to be considered eligible, the beneficiaries must prove with documents emitted by the responsible authorities or included in legal acts that they must pay and may not recover the VAT for the assets and services required for the project. In lieu of such legal documents, the Contracting Authority may accept as proof of VAT eligibility, an explicit declaration in the certificate on the financial statement (Annex VII);

- (i) **Costs incurred for *land purchase or long-term lease of land or one-off compensations for land use rights*** regarding a plot of land which is intrinsically connected with implementation of the project and explicitly envisaged therein, shall be considered eligible in full provided that:
- (aa) in and beyond the project the purchase will contribute to improving, maintaining and restoring the integrity of the Natura 2000 network, including through improving connectivity by the creation of corridors, stepping stones, or other elements of green infrastructure;
 - (bb) the land or land use rights acquired are owned by an entity or natural person who is not a project beneficiary or staff thereof and in relation to whom a conflict of interest can be excluded;
 - (cc) land purchase is the only or most cost-effective way of achieving the desired conservation outcome and the purchase price is based on market terms;
 - (dd) the land purchased is reserved in the long term for uses consistent with the objectives set out in Articles 11, 14 or 15 of the LIFE Regulation; and
 - (ee) the Member State concerned shall, by way of transfer or otherwise, ensure the long-term assignment of such land to nature conservation purposes.
 - (ff) the land/rights seller is not a public authority, with the exception of short-term leases by local authorities;
 - (gg) for land purchased as provided for in the project, the coordinating beneficiary shall ensure the entry in the land register includes a guarantee that the land will be assigned definitively to nature conservation. If in a given Member State the land register does not exist or it does not provide a sufficient legal guarantee, the coordinating beneficiary shall have a clause for the definitive assignment of the land to nature conservation included in the land sale contract. For countries where it would be illegal to include such a guarantee both in the land register and in the sale contract, the Agency/Commission may accept an equivalent guarantee in this connection, provided it offers the same legal level of protection in the long term and complies with the requirement contained in Article 20(3) of Regulation No 1293/2013;
 - (hh) in addition, for land purchased by private organisations, the entry in the land register (or the sales contract if accepted in lieu thereof if accepted as per the previous paragraph) includes a guarantee that the land property will be transferred to a legal body primarily active in the field of nature protection, in case of dissolution of the private organisation or its incapacity to manage the

land according to nature conservation requirements. For countries where it would be illegal to include such a guarantee in the land register or sales contract, the Agency/Commission may accept an equivalent guarantee in this connection, provided it offers the same legal level of protection in the long term and complies with the requirement contained in Article 20(3) of Regulation No 1293/2013;

- (ii) for the purchase of rights, the entry in the land register must be duly amended;
- (jj) in case of land purchased to be exchanged at a later date for another parcel on which project projects will be undertaken, the exchange is carried out before the end of the project at the latest and the provisions of the present Article shall apply to the lands received through the exchange. The land purchased to be exchanged shall be exempt, at the stage of the mid-term reporting, from the guarantee that the land will be assigned definitively to nature conservation.

The duration of a *land lease* shall either be restricted to the duration of the project (short term lease), in which case it is considered subcontracting, or be at least of 20 years (long-term lease) and shall be compatible with the needs of habitat and species protection. In the case of long-term lease of land, the lease contract shall clearly include all the provisions and commitments that will permit the achievement of its objectives in terms of habitat and species protection.

The LIFE Land Purchase Database (LPD) stores electronic data of land parcels financed by LIFE. The coordinating beneficiary is responsible for entering and validating the land purchase data (both descriptive and spatial) in the LPD at the stage of the final report submission. The data format will have to be adapted to the GIS standards used in the LPD. The coordinating beneficiary will be provided access to the LPD six months before the project end date as specified in Article I.2.2.

Costs incurred for payment of compensation for foregone income shall be eligible provided that the expense was necessary for reaching the objectives of a LIFE Nature, Climate Change Mitigation or Climate Change Adaptation integrated project, and that the payment of compensation:

- corresponds to market prices;
- is formalised through a legal document; and
- compensation is not paid to a public authority, with the exception of a temporary compensation to a local authority.

II.19.3 Eligible indirect costs

"Indirect costs" of the project (also referred to as "overheads") are those costs which are not specific costs directly linked to the implementation of the project and can therefore not be attributed directly to it. They may not include any costs identifiable or declared as eligible direct costs.

To be eligible, indirect costs shall represent a fair apportionment of the overall overheads of the beneficiary and shall comply with the conditions of eligibility set out in Article II.19.1.

Eligible indirect costs shall be declared on the basis of a flat rate as specified in Annex III in accordance with Article I.3 (a) (iv) and may not exceed 7% of the eligible direct costs

excluding costs of land purchase/long-term lease of land/one-off compensations for land use rights.

II.19.4 Ineligible costs

In addition to any other costs which do not fulfil the conditions set out in Article II.19.1 to 3, in particular the following costs shall not be considered eligible:

- (a) return on capital;
- (b) debt and debt service charges;
- (c) provisions for losses, debts or other liabilities;
- (d) interest owed;
- (e) doubtful debts;
- (f) exchange losses;
- (g) costs of transfers from the Agency/Commission charged by the bank of a beneficiary;
- (h) costs declared by the beneficiary in the framework of another project receiving a grant financed from the Union budget (including grants awarded by a Member State and financed from the Union budget and grants awarded by other bodies than the Agency/Commission or the Commission for the purpose of implementing the Union budget); in particular, indirect costs shall not be eligible under a grant for an project awarded to a beneficiary which already receives an operating grant financed from the Union budget during the period in question;
- (i) contributions in kind from third parties including voluntary work;
- (j) excessive or reckless expenditure;
- (k) any costs related to actions that may be considered as compensatory or mitigation measures for damages¹ caused to nature or biodiversity by permitted plans or projects;
- (l) unless explicitly foreseen in the project description in Annex II, any costs related to management plans, action plans and similar plans², drafted or modified in the context of a LIFE project, if the related plan is not adopted and operational before the project end date. This includes the completion, before the

¹ Unless such damages would be caused by the objectives of the LIFE project itself.

² Obligatory "After-LIFE plans" are not included in this category.

project end date, of all procedural/legal steps in Member States where such procedures are foreseen;

(m) costs for major infrastructure or fundamental scientific research unless explicitly foreseen in the project description in Annex II;

ARTICLE II.20 – IDENTIFIABILITY AND VERIFIABILITY OF THE AMOUNTS DECLARED

II.20.1 Reimbursement of actual costs

Where, in accordance with Article I.3(a)(i), the grant takes the form of the reimbursement of actual costs, the beneficiary must declare as eligible costs the costs it actually incurred for the project.

If requested to do so in the context of the checks or audits described in Article II.27, the beneficiary must be able to provide adequate supporting documents to prove the costs declared, such as contracts, invoices and accounting records. In addition, the beneficiary's usual accounting and internal control procedures must permit direct reconciliation of the amounts declared with the amounts recorded in its accounting statements as well as with the amounts indicated in the supporting documents.

II.20.2 Reimbursement of pre-determined unit costs or pre-determined unit contribution

Not applicable

II.20.3 Reimbursement of pre-determined lump sum costs or pre-determined lump sum contribution

Not applicable

II.20.4 Reimbursement of flat-rate costs

Not applicable.

II.20.5 Reimbursement of costs declared on the basis of the beneficiary's usual cost accounting practices

Not applicable

ARTICLE II.21 – ELIGIBILITY OF COSTS OF ENTITIES AFFILIATED TO THE BENEFICIARIES

Where the Special Conditions contain a provision on entities affiliated to the beneficiaries, costs incurred by such an entity are eligible, provided that they satisfy the same conditions under Articles II.19 and II.20 as apply to the beneficiary, and that the beneficiary the entity is

affiliated to ensures that the conditions applicable to him under Articles II.3, II.4, II.5, II.7, II.9, II.10 and II.27 are also applicable to the entity.

ARTICLE II.22 – BUDGET TRANSFERS

Without prejudice to Article II.10 and provided that the project is implemented as described in Annex II, beneficiaries are allowed to adjust the estimated budget set out in Annex III by transfers between themselves, and up to a limit of 20% of the overall eligible costs, between the different budget categories, without this adjustment being considered as an amendment of the Agreement within the meaning of Article II.12.

By way of derogation from the first subparagraph, should beneficiaries want to modify the value of the contribution that each of them is entitled to as referred to in point (b) of Article II.17.1 and point (c) of II.26.3, the coordinating beneficiary shall request an amendment in accordance to Article II.12.

ARTICLE II.23 – TECHNICAL AND FINANCIAL REPORTING – REQUESTS FOR PAYMENT AND SUPPORTING DOCUMENTS

- (a) A report fulfilling the reporting requirements set out in Article II.23.2 has to be submitted three months before the end of each project phase as specified in Annex II.
- (b) All reports shall contain the necessary information for the Agency/Commission to evaluate the state of implementation of the project, the respect of the work plan, the financial status of the project and whether the project's objectives have been achieved or are still achievable.
- (c) The form and contents of the reports shall be in accordance with the Guidelines issued by the Agency/Commission as specified on the website <http://ec.europa.eu/environment/life/toolkit/pmtools/index.htm>.
- (d) All reports shall be simultaneously forwarded, in both paper and electronic formats, to the Agency/Commission and to the external monitoring team designated by the Agency/Commission.
- (e) Electronic tools, which include spatial data and are produced in the frame of a LIFE project, shall comply with the Commission Regulation (EU) No 1253/2013 of 21 October 2013 amending Regulation (EU) No 1089/2010 implementing Directive 2007/2/EC establishing an Infrastructure for Spatial Information in the European Union (INSPIRE).
- (f) The Agency/Commission and the external monitoring team designated by the Commission shall each receive one complete copy of the technical reports, including annexes, and of the financial statement. The coordinating beneficiary shall submit a copy of the final report to the Member State authorities. These latter also have the right to ask for a copy of the progress report accompanying further pre-financing payments.

II.23.1 Requests for further pre-financing payments and supporting documents

Not applicable.

II.23.2 Requests for interim payments or for payment of the balance and supporting documents

The coordinating beneficiary shall submit a signed request for an interim payment or for payment of the balance within 90 days following the end of the project period as specified in Article I.2.2.

This request shall be accompanied by the following documents:

- (a) an interim report (“interim technical report”) or, for the payment of the balance, a final report on implementation of the project (“final technical report”), drawn up in accordance with Annex V; the final technical report must contain the information needed to justify the eligible costs declared, as well as information on subcontracting as referred to in Article II.10.2(d);
- (b) an interim financial statement (“interim financial statement”) or, for the payment of the balance, a final financial statement (“final financial statement”) which must include a consolidated statement as well as a breakdown of the amounts claimed by each beneficiary and its affiliated entities; they must be drawn up in accordance with the structure of the estimated budget set out in Annex III and with Annex VI and detail the amounts for each of the forms of grant set out in Article I.3 for the entire project period as specified in Article I.2.2;
- (c) not applicable;
- (d) for each project for which the total contribution in the form of reimbursement of actual costs as referred to in Article I.3(a)(i) is at least EUR 300 000, a certificate on the financial statements and underlying accounts (“certificate on the financial statements”);

This certificate shall be produced by an approved auditor or, in case of public bodies, by a competent and independent public officer and drawn up in accordance with Annex VII. It shall certify that the costs declared in the final financial statement by each beneficiary or its affiliated entities for the categories of costs reimbursed in accordance with Article I.3(a)(i) are real, accurately recorded and eligible in accordance with the Agreement. In addition, for the payment of the balance, it shall certify that all the receipts referred to in Article II.25.3.2 have been declared.

The coordinating beneficiary shall certify that the information provided in the request for payment of the balance is full, reliable and true. It shall also certify that the costs incurred can be considered eligible in accordance with the Agreement and that the request for payment is substantiated by adequate supporting documents that can be produced in the context of the checks or audits described in Article II.27. In addition, for the payment of the balance, it shall certify that all the receipts referred to in Article II.25.3.2 have been declared.

II.23.3 Non-submission of documents

Where the coordinating beneficiary has failed to submit a request for interim payment or payment of the balance accompanied by the documents referred to above within 90 days following the end of the corresponding reporting period and where the coordinating beneficiary still fails to submit such a request within 60 days following a written reminder sent by the Agency/Commission, the Agency/Commission reserves the right to terminate the Agreement in accordance with Article II.16.3.1(c), with the effects described in the third and the fourth subparagraphs of Article II.16.4.

II.23.4 Currency for requests for payment and financial statements and conversion into euro

Requests for payment and financial statements shall be drafted in euro.

Beneficiaries with general accounts in a currency other than the euro shall convert costs incurred into euro. Beneficiaries with general accounts in a currency other than the euro shall convert costs incurred in another currency into euro at the monthly accounting rate established by the Commission and published on its website (http://ec.europa.eu/budget/contracts_grants/info_contracts/inforeuro/inforeuro_en.cfm) applicable on the day when the cost was incurred, or at the monthly accounting rate established by the Commission and published on its website applicable on the first working day of the month following the period covered by the financial statement concerned.

Beneficiaries with general accounts in euro shall convert costs incurred in another currency into euro according to their usual accounting practices.

ARTICLE II.24 – PAYMENTS AND PAYMENT ARRANGEMENTS

II.24.1 Pre-financing

The pre-financing is intended to provide the beneficiaries with a float.

Without prejudice to Article II.24.6, where Article I.4.1 provides for a pre-financing payment upon entry into force of the Agreement, subject to the submission of a signed payment request within 30 days following that date or, where required by Article I.4.1, following receipt of the financial guarantee.

Where payment of pre-financing is conditional on receipt of a financial guarantee, the financial guarantee shall fulfil the following conditions:

- (a) it is provided by a bank or an approved financial institution or, at the request of the coordinating beneficiary and acceptance by the Agency/Commission, by a third party;
- (b) the guarantor stands as first-call guarantor and does not require the Agency/Commission to have recourse against the principal debtor (i.e. the beneficiary concerned); and
- (c) it provides that it remains in force until the pre-financing is cleared against payment of the balance by the Agency/Commission and, in case the payment of the balance is made

in the form of a debit note, three months after the debit note is notified to a beneficiary. The Agency/Commission shall release the guarantee within the following month.

II.24.2 Further pre-financing payments

Not applicable.

II.24.3 Interim payments

Interim payments are intended to reimburse or cover the eligible costs incurred for the implementation of the project during the corresponding reporting periods.

Without prejudice to Articles II.24.5 and II.24.6, on receipt of the documents referred to in Article II.23.2, the Commission shall pay to the coordinator the amount due as interim payment within the time limit specified in Article I.4.2.

This amount shall be determined following approval of the request for interim payment and of the accompanying documents and in accordance with the fourth subparagraph. Approval of the request for interim payment and of the accompanying documents shall not imply recognition of the regularity or of the authenticity, completeness and correctness of the declarations and information it contains.

Without prejudice to any ceiling set out in Article I.4.1 and to Articles II.24.5 and II.24.6, the amount due as interim payment shall be determined as follows:

- (a) where, in accordance with Article I.3(a), the grant takes the form of the reimbursement of eligible costs, the amount obtained by application of the reimbursement rate specified in that Article to the eligible costs of the project approved by the Commission for the concerned reporting period and the corresponding categories of costs, beneficiaries and affiliated entities; if Article I.4.1 specifies another reimbursement rate, this other rate shall be applied instead;
- (b) not applicable;
- (c) not applicable;
- (d) not applicable.

II.24.4 Payment of the balance

The payment of the balance, which may not be repeated, is intended to reimburse or cover after the end of the period set out in Article I.2.2 the remaining part of the eligible costs incurred by the beneficiaries for its implementation. Where the total amount of earlier payments is greater than the final amount of the grant determined in accordance with Article II.25, the payment of the balance may take the form of a recovery as provided for by Article II.26.

Without prejudice to Articles II.24.5 and II.24.6, on receipt of the documents referred to in Article II.23.2, the Agency/Commission shall pay the amount due as the balance within the time limit specified in Article I.4.2.

This amount shall be determined following approval of the request for payment of the balance and of the accompanying documents and in accordance with the fourth subparagraph. Approval of the request for payment of the balance and of the accompanying documents shall not imply recognition of the regularity or of the authenticity, completeness and correctness of the declarations and information it contains.

The amount due as the balance shall be determined by deducting, from the final amount of the grant determined in accordance with Article II.25, the total amount of pre-financing and interim payments already made.

II.24.5 Suspension of the time limit for payment

The Agency/Commission may suspend the time limit for payment specified in Articles I.4.2 and II.24.2 at any time by formally notifying the coordinating beneficiary that its request for payment cannot be met, either because it does not comply with the provisions of the Agreement, or because the appropriate supporting documents have not been produced, or because there is doubt about the eligibility of the costs declared in the financial statement.

The coordinating beneficiary shall be notified as soon as possible of any such suspension, together with the reasons thereof.

Suspension shall take effect on the date when notification is sent by the Agency/Commission. The remaining payment period shall start to run again from the date on which the requested information or revised documents are received or the necessary further verification, including on-the-spot checks, is carried out. Where the suspension exceeds two months, the coordinating beneficiary may request a decision by the Agency/Commission on whether the suspension is to be continued.

Where the time limit for payment has been suspended following the rejection of one of the technical reports or financial statements provided for by Article II.23 and the new report or statement submitted is also rejected, the Agency/Commission reserves the right to terminate the Agreement in accordance with Article II.16.3.1(c), with the effects described in Article II.16.4.

II.24.6 Suspension of payments

The Agency/Commission may, at any time during the implementation of the Agreement, suspend the pre-financing payments, interim payments or payment of the balance for all beneficiaries, or suspend the pre-financing payments or interim payments for any one or several beneficiaries:

- (a) if the Agency/Commission has evidence that a beneficiary has committed substantial errors, irregularities or fraud in the award procedure or in the implementation of the grant, or if a beneficiary fails to comply with its obligations under the Agreement;

- (b) if the Agency/Commission has evidence that a beneficiary has committed systemic or recurrent errors, irregularities, fraud or breach of obligations under other grants funded by the Union or by the European Atomic Energy Community which were awarded to that beneficiary under similar conditions, provided that those errors, irregularities, fraud or breach of obligations have a material impact on this grant; or
- (c) if the Agency/Commission suspects substantial errors, irregularities, fraud or breach of obligations committed by a beneficiary in the award procedure or in the implementation of the Agreement and needs to verify whether they have actually occurred.

Before suspending payments, the Agency/Commission shall formally notify the coordinating beneficiary of its intention to suspend payments, specifying the reasons thereof and, in the cases referred to in points (a) and (b) of the first subparagraph, the necessary conditions for resuming payments. The coordinating beneficiary shall be invited to make any observations on behalf of all beneficiaries within 30 calendar days from receipt of this notification.

If, after examination of the observations submitted by the coordinating beneficiary, the Agency/Commission decides to stop the procedure of payment suspension, the Agency/Commission shall formally notify the coordinating beneficiary thereof.

If no observations have been submitted or if, despite the observations submitted by the coordinating beneficiary, the Agency/Commission decides to pursue the procedure of payment suspension, it may suspend payments by formally notifying the coordinating beneficiary, specifying the reasons for the suspension and, in the cases referred to in points (a) and (b) of the first subparagraph, the definitive conditions for resuming payments or, in the case referred to in point (c) of the first subparagraph, the indicative date of completion of the necessary verification.

The coordinating beneficiary shall inform the other beneficiaries immediately. The suspension of payments shall take effect on the date when the notification is sent by the Agency/Commission.

In order to resume payments, the beneficiaries shall endeavour to meet the notified conditions as soon as possible and shall inform the Agency/Commission of any progress made in this respect.

The Agency/Commission shall, as soon as it considers that the conditions for resuming payments have been met or the necessary verification, including on-the-spot checks, has been carried out, formally notify the coordinating beneficiary thereof.

During the period of suspension of payments and without prejudice to the right to suspend the implementation of the project in accordance with Article II.15.1 or to terminate the Agreement or the participation of a beneficiary in accordance with Article II.16.1 and Article II.16.2, the coordinating beneficiary is not entitled to submit any requests for payments and supporting documents referred to in Article II.23 or, where the suspension concerns the pre-financing payments or interim payments for one or several beneficiaries only, any requests for payments and supporting documents relating to the participation of the concerned beneficiary or beneficiaries in the project.

The corresponding requests for payments and supporting documents may be submitted as soon as possible after resumption of payments or may be included in the first request for payment due following resumption of payments in accordance with the schedule laid down in Article I.4.1.

II.24.7 Notification of amounts due

The Agency/Commission shall formally notify the amounts due, specifying whether it is a further pre-financing payment, an interim payment or the payment of the balance. In the case of payment of the balance, it shall also specify the final amount of the grant determined in accordance with Article II.25.

II.24.8 Interest on late payment

On expiry of the time limits for payment specified in Articles I.4.2, II.24.1 and II.24.2, and without prejudice to Articles II.24.5 and II.24.6, the beneficiaries are entitled to interest on late payment at the rate applied by the European Central Bank for its main refinancing operations in euros ("the reference rate"), plus three and a half points. The reference rate shall be the rate in force on the first day of the month in which the time limit for payment expires, as published in the C series of the *Official Journal of the European Union*.

The first subparagraph shall not apply where all beneficiaries are Member States of the Union, including regional and local government authorities and other public bodies acting in the name and on behalf of the Member State for the purpose of this Agreement.

The suspension of the time limit for payment in accordance with Article II.24.5 or of payment by the Agency/Commission in accordance with Article II.24.6 may not be considered as late payment.

Interest on late payment shall cover the period running from the day following the due date for payment, up to and including the date of actual payment as established in Article II.24.10. The interest payable shall not be considered for the purposes of determining the final amount of grant within the meaning of Article II.25.3.

By way of derogation from the first subparagraph, when the calculated interest is lower than or equal to EUR 200, it shall be paid to the coordinating beneficiary only upon request submitted within two months of receiving late payment.

II.24.9 Currency for payments

Payments by the Agency/Commission shall be made in euro.

II.24.10 Date of payment

Payments by the Agency/Commission shall be deemed to be effected on the date when they are debited to the Agency/Commission's account.

II.24.11 Costs of payment transfers

Costs of the payment transfers shall be borne in the following way:

- (a) costs of transfer charged by the bank of the Commission shall be borne by the Commission;
- (b) costs of transfer charged by the bank of a beneficiary shall be borne by the beneficiary;
- (c) all costs of repeated transfers caused by one of the parties shall be borne by the party which caused the repetition of the transfer.

II.24.12 Payments to the coordinating beneficiary

Payments to the coordinating beneficiary shall discharge the Agency/Commission from its payment obligation.

ARTICLE II.25 – DETERMINING THE FINAL AMOUNT OF THE GRANT

II.25.1 Calculation of the final amount

Without prejudice to Articles II.25.2, II.25.3 and II.25.4, the final amount of the grant shall be determined as follows:

- (a) where, in accordance with Article I.3(a), the grant takes the form of the reimbursement of eligible costs, the amount obtained by application of the reimbursement rate specified in that Article to the eligible costs of the project approved by the Agency/Commission for the corresponding categories of costs, beneficiaries and affiliated entities;
- (b) not applicable;
- (c) not applicable;
- (d) not applicable.

II.25.2 Maximum amount

The total amount paid to the beneficiaries by the Agency/Commission may in no circumstances exceed the maximum amount nor the reimbursement rate specified in Article I.3.

Where the amount determined in accordance with Article II.25.1 exceeds this maximum amount, the final amount of the grant shall be limited to the maximum amount specified in Article I.3.

II.25.3 No-profit rule and taking into account of receipts

- II.25.3.1** The grant may not produce a profit for the beneficiaries, unless specified otherwise in the Special Conditions. "Profit" shall mean a surplus of the receipts over the eligible costs of the project.
- II.25.3.2** The receipts to be taken into account are the consolidated receipts established, generated or confirmed on the date on which the request for payment of the balance is drawn up by the coordinating beneficiary, which fall within one of the following two categories:
- (a) income generated by the project; or
 - (b) financial contributions specifically assigned by the donors to the financing of the eligible costs of the project reimbursed by the Agency/Commission in accordance with Article I.3(a)(i).
- II.25.3.3** The following shall not be considered as receipts to be taken into account for the purpose of verifying whether the grant produces a profit for the beneficiaries:
- (a) financial contributions referred to in point (b) of Article II.25.3.2, which may be used by the beneficiaries to cover costs other than the eligible costs under the Agreement;
 - (b) financial contributions referred to in point (b) of Article II.25.3.2, the unused part of which is not due to the donors at the end of the period set out in Article I.2.2.
- II.25.3.4** The eligible costs to be taken into account are the consolidated eligible costs approved by the Agency/Commission for the categories of costs reimbursed in accordance with Article I.3(a).
- II.25.3.5** Where the final amount of the grant determined in accordance with Articles II.25.1 and II.25.2 would result in a profit for the beneficiaries, the profit shall be deducted in proportion to the final rate of reimbursement of the actual eligible costs of the project approved by the Agency/Commission for the categories of costs referred to in Article I.3(a)(i). This final rate shall be calculated on the basis of the final amount of the grant in the form referred to in Article I.3(a)(i), as determined in accordance with Articles II.25.1 and II.25.2.

II.25.4 Reduction for poor, partial or late implementation

If the project is not implemented or is implemented poorly, partially or late, the Agency/Commission may reduce the grant initially provided for, in line with the actual implementation of the project according to the terms laid down in the Agreement.

ARTICLE II.26 – RECOVERY

II.26.1 Recovery at the time of payment of the balance

Where the payment of the balance takes the form of a recovery, the coordinating beneficiary shall repay the Agency/Commission the amount in question, even if it has not been the final recipient of the amount due. However, the Agency/Commission reserves the right, where appropriate, to recover the amount due directly from the final recipient.

II.26.2 Recovery after payment of the balance

Where an amount is to be recovered in accordance with Articles II.27.6, II.27.7 and II.27.8, the beneficiary concerned by the audit or OLAF findings shall repay the Agency/Commission the amount in question. Where the audit findings do not concern a specific beneficiary, the coordinating beneficiary shall repay the Agency/Commission the amount in question, even if it has not been the final recipient of the amount due.

Each beneficiary shall be responsible for the repayment of any amount unduly paid by the Agency/Commission as a contribution towards the costs incurred by its affiliated entities.

II.26.3 Recovery procedure

Before recovery, the Agency/Commission shall formally notify the beneficiary concerned of its intention to recover the amount unduly paid, specifying the amount due and the reasons for recovery and inviting the beneficiary to make any observations within a specified period.

If no observations have been submitted or if, despite the observations submitted by the beneficiary, the Agency/Commission decides to pursue the recovery procedure, the Agency/Commission may confirm recovery by formally notifying to the beneficiary a debit note (“debit note”), specifying the terms and the date for payment.

If payment has not been made by the date specified in the debit note, the Agency/Commission or the Commission shall recover the amount due:

- (a) by offsetting it against any amounts owed to the beneficiary concerned by the Union or the European Atomic Energy Community (Euratom) (“offsetting”); in exceptional circumstances, justified by the necessity to safeguard the financial interests of the Union, the Agency/Commission or the Commission may recover by offsetting before the due date; the beneficiary’s prior consent shall not be required; an project may be brought against such offsetting before the General Court of the European Union pursuant to Article 263 TFEU;
- (b) by drawing on the financial guarantee where provided for in accordance with Article I.4.1 (“drawing on the financial guarantee”);
- (c) by holding the beneficiaries jointly and severally liable up to the value of the contribution that the beneficiary held liable is entitled to receive. This

contribution shall be that indicated in the estimated budget breakdown as set out in Annex III as last amended;

- (d) by taking legal project in accordance with Article II.18.2 or with the Special Conditions or by adopting an enforceable decision in accordance with Article II.18.3.

For the purposes of point (c) of the third subparagraph, the beneficiaries shall not be jointly and severally liable for financial penalties which could be imposed on any defaulting beneficiary in accordance with Article II.17

II.26.4 Interest on late payment

If payment has not been made by the date set out in the debit note, the amount due shall bear interest at the rate established in Article II.24.8. Interest on late payment shall cover the period running from the day following the due date for payment, up to and including the date when the Commission actually receives payment in full of the outstanding amount.

Any partial payment shall first be appropriated against charges and interest on late payment and then against the principal.

II.26.5 Bank charges

Bank charges incurred in connection with the recovery of the sums owed to the Agency/Commission shall be borne by the beneficiary concerned except where Directive 2007/64/EC of the European Parliament and of the Council of 13 November 2007 on payment services in the internal market amending Directives 97/7/EC, 2002/65/EC, 2005/60/EC and 2006/48/EC and repealing Directive 97/5/EC applies.

ARTICLE II.27 – CHECKS, AUDITS AND EVALUATION

II.27.1 Technical and financial checks, audits, interim and final evaluations

The Agency/Commission may carry out technical and financial checks and audits in relation to the use of the grant. It may also check the statutory records of the beneficiaries for the purpose of periodic assessments of lump sum, unit cost or flat-rate amounts.

Information and documents provided in the framework of checks or audits shall be treated on a confidential basis.

In addition, the Agency/Commission may carry out interim or final evaluation of the impact of the project measured against the objective of the Union programme concerned.

Checks, audits or evaluations made by the Agency/Commission may be carried out either directly by its own staff or by any other outside body authorised to do so on its behalf.

Such checks, audits or evaluations may be initiated during the implementation of the Agreement and for a period of five years starting from the date of payment of the balance. This period shall be limited to three years if the maximum amount specified in Article I.3 is not more than EUR 60 000.

The check, audit or evaluation procedure shall be deemed to be initiated on the date of receipt of the letter of the Agency/Commission announcing it.

II.27.2 Duty to keep documents

The beneficiaries shall keep all original documents, especially accounting and tax records, stored on any appropriate medium, including digitalised originals when they are authorised by their respective national law and under the conditions laid down therein, for a period of five years starting from the date of payment of the balance.

This period shall be limited to three years if the maximum amount specified in Article I.3 is not more than EUR 60 000.

The periods set out in the first and second subparagraphs shall be longer if there are on-going audits, appeals, litigation or pursuit of claims concerning the grant, including in the case referred to in Article II.27.7. In such cases, the beneficiaries shall keep the documents until such audits, appeals, litigation or pursuit of claims are closed.

II.27.3 Obligation to provide information

Where a check, audit or evaluation is initiated before the payment of the balance, the coordinating beneficiary shall provide any information, including information in electronic format, requested by the Agency/Commission or by any other outside body authorised by it. Where appropriate, the Agency/Commission may request such information to be provided directly by a beneficiary.

Where a check or audit is initiated after payment of the balance, such information shall be provided by the beneficiary concerned.

In case the beneficiary concerned does not comply with the obligations set out in the first and second subparagraphs, the Agency/Commission may consider:

- (a) any cost insufficiently substantiated by information provided by the beneficiary as ineligible;
- (b) any unit, lump sum or flat-rate contribution insufficiently substantiated by information provided by the beneficiary as undue.

II.27.4 On-the-spot visits

During an on-the-spot visit, the beneficiaries shall allow Agency/Commission staff and outside personnel authorised by the Agency/Commission to have access to the sites and premises where the project is or was carried out, and to all the necessary information, including information in electronic format.

They shall ensure that the information is readily available at the moment of the on-the-spot visit and that information requested is handed over in an appropriate form.

In case the beneficiary concerned refuses to provide access to the sites, premises and information in accordance with the first and second subparagraphs, the Agency/Commission may consider:

- (a) any cost insufficiently substantiated by information provided by the beneficiary as ineligible;
- (b) any unit, lump sum or flat-rate contribution insufficiently substantiated by information provided by the beneficiary as undue.

II.27.5 Contradictory audit procedure

On the basis of the findings made during the audit, a provisional report (“draft audit report”) shall be drawn up. It shall be sent by the Agency/Commission or its authorised representative to the beneficiary concerned, which shall have 30 days from the date of receipt to submit observations. The final report (“final audit report”) shall be sent to the beneficiary concerned within 60 days of expiry of the time limit for submission of observations.

II.27.6 Effects of audit findings

On the basis of the final audit findings, the Agency/Commission may take the measures which it considers necessary, including recovery at the time of payment of the balance or after payment of the balance of all or part of the payments made by it, in accordance with Article II.26.

In the case of final audit findings made after the payment of the balance, the amount to be recovered shall correspond to the difference between the revised final amount of the grant, determined in accordance with Article II.25, and the total amount paid to the beneficiaries under the Agreement for the implementation of the project.

II.27.7 Correction of systemic or recurrent errors, irregularities, fraud or breach of obligations

II.27.7.1 The Agency/Commission may take all measures which it considers necessary, including recovery at the time of payment of the balance or after payment of the balance of all or part of the payments made by it under the Agreement, in accordance with Article II.26, where the following conditions are fulfilled:

- (a) the beneficiary is found, on the basis of an audit of other grants awarded to it under similar conditions, to have committed systemic or recurrent errors, irregularities, fraud or breach of obligations that have a material impact on this grant; and
- (b) the final audit report containing the findings of the systemic or recurrent errors, irregularities, fraud or breach of obligations is received by the beneficiary within the period referred to in Article II.27.1.

II.27.7.2 The Agency/Commission shall determine the amount to be corrected under the Agreement:

- (a) wherever possible and practicable, on the basis of costs unduly declared as eligible under the Agreement.

For that purpose, the beneficiary concerned shall revise the financial statements submitted under the Agreement taking account of the findings and resubmit them to the Agency/Commission within 60 days from the date of receipt of the final audit report containing the findings of the systemic or recurrent errors, irregularities, fraud or breach of obligations.

In the case of systemic or recurrent errors, irregularities, fraud or breach of obligations found after the payment of the balance, the amount to be recovered shall correspond to the difference between the revised final amount of the grant, determined in accordance with Article II.25 on the basis of the revised eligible costs declared by the beneficiary and approved by the Agency/Commission, and the total amount paid to the beneficiaries under the Agreement for the implementation of the project;

- (b) where it is not possible or practicable to quantify precisely the amount of ineligible costs under the Agreement, by extrapolating the correction rate applied to the eligible costs for the grants for which the systemic or recurrent errors or irregularities have been found.

The Agency/Commission shall formally notify the extrapolation method to be applied to the beneficiary concerned, which shall have 60 days from the date of receipt of the notification to submit observations and to propose a duly substantiated alternative method.

If the Agency/Commission accepts the alternative method proposed by the beneficiary, it shall formally notify the beneficiary concerned thereof and determine the revised eligible costs by applying the accepted alternative method.

If no observations have been submitted or if the Agency/Commission does not accept the observations or the alternative method proposed by the beneficiary, the Agency/Commission shall formally notify the beneficiary concerned thereof and determine the revised eligible costs by applying the extrapolation method initially notified to the beneficiary.

In the case of systemic or recurrent errors, irregularities, fraud or breach of obligations found after the payment of the balance, the amount to be recovered shall correspond to the difference between the revised final amount of the grant, determined in accordance with Article II.25 on the basis of the revised eligible costs after extrapolation, and the total amount paid to the beneficiaries under the Agreement for the implementation of the project; or

- (c) where ineligible costs cannot serve as a basis for determining the amount to be corrected, by applying a flat rate correction to the maximum amount of the grant specified in Article I.3 or part thereof, having regard to the principle of proportionality.

The Agency/Commission shall formally notify the flat rate to be applied to the beneficiary concerned, which shall have 60 days from the date of receipt of the notification to submit observations and to propose a duly substantiated alternative flat rate.

If the Agency/Commission accepts the alternative flat rate proposed by the beneficiary, it shall formally notify the beneficiary concerned thereof and correct the grant amount by applying the accepted alternative flat rate.

If no observations have been submitted or if the Agency/Commission does not accept the observations or the alternative flat rate proposed by the beneficiary, the Agency/Commission shall formally notify the beneficiary concerned thereof and correct the grant amount by applying the flat rate initially notified to the beneficiary.

In the case of systemic or recurrent errors, irregularities, fraud or breach of obligations found after the payment of the balance, the amount to be recovered shall correspond to the difference between the revised final amount of the grant after flat-rate correction and the total amount paid to the beneficiaries under the Agreement for the implementation of the project.

II.27.8 Checks and inspections by OLAF

The European Anti-Fraud Office (OLAF) may carry out investigations including on-the-spot checks and inspections, in accordance with the provisions and procedures laid down in

(i) Regulation (EC) No 883/2013 of the European Parliament and of the Council concerning investigations conducted by the European Anti-Fraud Office (OLAF) and repealing Regulation (EC) n°1073/1999 of the European Parliament and of the Council and Council Regulation (Euratom) n°1074/1999 and

(ii) Council Regulation (Euratom, EC) No 2185/96 of 11 November 1996 concerning on-the-spot checks and inspections carried out by the Commission in order to protect the European Communities' financial interests against fraud and other irregularities

with a view to establishing whether there has been fraud, corruption or any other illegal activity affecting the financial interests of the Union in connection with this Agreement.

II.27.9 Checks and audits by the Commission and the European Court of Auditors

The European Commission and the European Court of Auditors shall have the same rights as the Agency/Commission, notably right of access, for the purpose of checks and audits.

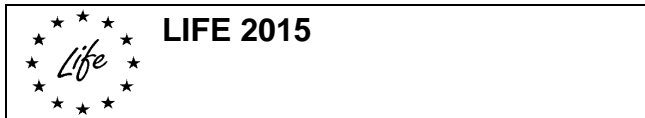


LIFE Integrated projects 2015

Stage 2 – FULL PROPOSAL

Technical application forms

Part A – administrative information



FOR ADMINISTRATION USE ONLY
LIFE15 IPE/

PROJECT

Project title (*max. 120 characters*):

Po Regions Engaged to Policies of AIR

Project acronym (*max. 25 characters*):

LIFE-IP PREPAIR

The project will be implemented in the following Country(s) and/or Administrative region(s):

COUNTRIES: **ITALY, SLOVENIA.**

ADMINISTRATIVE REGIONS: **Emilia-Romagna, Piedmont, Lombardy, Veneto, Autonomous Province of Trento, Autonomous Region of Friuli Venezia Giulia, Autonomous Region of Valle d’Aosta, Slovenia**

Expected start date: **01/02/2017**

Expected end date: **31/01/2024**

PROJECT POLICY AREA

You can only tick one of the following options:

LIFE Integrated Project Nature: Integrated project contributing to the achievement of the objectives of the EU Birds and Habitats Directives (Directives 2009/147/EC and 92/43/EEC) and to achieving target 1 of the EU Biodiversity Strategy by implementing the Prioritized Action Frameworks (Article 8 of 92/43/EEC)

LIFE Integrated Project Environment: Integrated project contributing to the achievement of the objectives of the:

- Waste Directive by implementing **Waste Management Plans (WMP)** (Article 28 of Waste Framework Directive 2008/98) and/or **Waste Prevention Programmes (WPP)** (Article 29 of Waste Framework Directive)
- Water Framework Directive by implementing **implement a/parts of a River Basin Management Plan (RMBP)** (Annex VII of Directive No. 2000/60/EC)
- Air Directive by implementing **Air Quality Plans** (Directive 2008/50/EC)

The project will implement the following plan/strategy (*full copy is to be provided if modified since Concept Note submission*):

Accordo di programma per l'adozione coordinata e congiunta di misure per il miglioramento della qualità dell'aria nel bacino Padano

<http://www.mit.gov.it/mit/site.php?p=cm&o=vd&id=3050>

Region Emilia-Romagna:

- **PAIR2020 (PIANO ARIA INTEGRATO REGIONALE)**

<http://ambiente.regione.emilia-romagna.it/aria-rumore-elettrosmog/temi/pair2020>

- **PSR (PROGRAMMA DI SVILUPPO RURALE)**

<http://agricoltura.regione.emilia-romagna.it/psr/temi/programma-di-sviluppo-rurale-2014-2020>

- **POR FESR (Programma operativo regionale del Fondo europeo di sviluppo regionale)**

<http://fesr.regione.emilia-romagna.it/2014-2020/por-fesr>

Region Veneto:

- Piano Regionale di Tutela e Risanamento dell'Atmosfera

http://www.consiglio Veneto.it/crvportal/pdf/pratiche/9/pda/PDA_0092/1000_5Ftesto_20presentato.pdf

- PSR (PROGRAMMA DI SVILUPPO RURALE)

<http://www.regione.veneto.it/web/agricoltura-e-foreste/sviluppo-rurale-2020>

- POR (Piano Operativo Regionale del Fondo Europeo di Sviluppo Regionale)

<http://www.regione.veneto.it/web/programmi-comunitari/documenti-di-programmazione1>

Region Lombardia:

- Piano Regionale degli Interventi per la qualità dell'Aria (PRIA)

http://www.reti.regione.lombardia.it/cs/Satellite?c=Redazionale_P&childpagename=DG_Reti%2FDetail&cid=1213538141708&packedargs=NoSlotForSitePlan%3Dtrue%26menu-to-render%3D1213277017319&pagename=DG_RSSWrapper

- POR FESR (Programma operativo regionale del Fondo europeo di sviluppo regionale)

<http://www.ue.regione.lombardia.it/cs/Satellite?>

[c=Redazionale_P&childpagename=ProgrammazioneComunitaria](http://www.ue.regione.lombardia.it/cs/Satellite?c=Redazionale_P&childpagename=ProgrammazioneComunitaria)

[%2FDetail&cid=1213716412728&packedargs=NoSlotForSitePlan%3Dtrue%26menu-to-render%3D1213294569099&pagename=PROCOMWrapper](http://www.ue.regione.lombardia.it/cs/Satellite?%2FDetail&cid=1213716412728&packedargs=NoSlotForSitePlan%3Dtrue%26menu-to-render%3D1213294569099&pagename=PROCOMWrapper)

- PSR (PROGRAMMA DI SVILUPPO RURALE)

<http://www.agricoltura.regione.lombardia.it/cs/Satellite?>

[c=Redazionale_P&childpagename=DG_Agricoltura%2FDetail&cid=1213666661822&packedargs](http://www.agricoltura.regione.lombardia.it/cs/Satellite?c=Redazionale_P&childpagename=DG_Agricoltura%2FDetail&cid=1213666661822&packedargs)

[=NoSlotForSitePlan%3Dtrue%26menu-to-render%3D1213277491324&pagename=DG_AGRWrapper](http://www.agricoltura.regione.lombardia.it/cs/Satellite?%2FDetail&cid=1213666661822&packedargs=NoSlotForSitePlan%3Dtrue%26menu-to-render%3D1213277491324&pagename=DG_AGRWrapper)

Region Piemonte:

- Piano Regionale per la Qualità dell'Aria - P.R.Q.A

http://www.regione.piemonte.it/ambiente/normativa/aria_normativa.htm

- PSR (PROGRAMMA DI SVILUPPO RURALE)

http://www.regione.piemonte.it/agri/psr2014_20/index.htm

- POR FESR (Programma operativo regionale del Fondo europeo di sviluppo regionale)

<http://www.regione.piemonte.it/parteneriato1420/index.php/documentazione/29- documentazionepor-fondo-europeo-sviluppo-regionale>

Autonomous Region Friuli Venezia Giulia:

- Piano di miglioramento della qualità dell'aria

<http://www.regione.fvg.it/rafvfg/cms/RAFVG/ambiente-territorio/pianificazione-gestione-territorio/>

- Programma Operativo del Fondo europeo di sviluppo regionale 2014-2020 "Investimenti a favore della crescita e dell'occupazione"

<http://www.regione.fvg.it/rafvfg/cms/RAFVG/fondi-europei-fvg-internazionale/por-fesr/FOGLIA128/>

- Programma di Sviluppo Rurale

<http://www.regione.fvg.it/rafvfg/cms/RAFVG/economia-imprese/agricoltura-foreste/psr-programma-sviluppo-rurale/>

Autonomous Province of Trento:

- Piano provinciale di tutela della qualità dell'aria

http://www.appa.provincia.tn.it/pianificazione/Piano_tutela_aria/-Piano_tutela_aria/

- POR FESR (Programma operativo regionale del Fondo europeo di sviluppo regionale)

http://www.europa.provincia.tn.it/europa_2014_2020/fesr/

Autonomous Region Valle d'Aosta: Piano regionale per il risanamento, miglioramento e mantenimento della qualità dell'aria

http://www.regione.vda.it/territorio/ambiente/aria/piano_aria_i/default_i.asp

Republic of Slovenia:

- All Governmental Ordinances on Air Quality Plans (Uradni list Republike Slovenije – Ur.l. RS)

http://www.mop.gov.si/si/zakonodaja_in_dokumenti/veljavni_predpisi/okolje/zakon_o_varstvu_okolja/kakovost_zraka/

- Slovenian Climate Change Fund

http://www.mop.gov.si/si/zakonodaja_in_dokumenti/veljavni_predpisi/okolje/zakon_o_varstvu_okolja/kakovost_zraka/

- Operational Programme for the Implementation of the European Cohesion Policy in the 2014-2020

www.eu-skladi.si/sl/ekp/kljucni-dokumenti (http://www.eu-skladi.si/sl/dokumenti/kljucni-dokumenti/op_ang_final_web.pdf)

Municipality of Bologna - Municipality of Turin - Municipality of Milan:

- Programma Operativo Nazionale "Città Metropolitane 2014 – 2020

http://www.agenziacoesione.gov.it/it/pon_metro/Presentazione_PON_Metro.html.

BENEFICIARIES

Name of the **coordinating** beneficiary (1): **Emilia-Romagna Region, General Directorate for Territorial and Environmental Care**

Name of the associated beneficiary (2): **Veneto Region - Environment Department.**

Name of the associated beneficiary (3): **Lombardy Region**

Name of the associated beneficiary (4): **Piedmont Region, Directorate for Environment, Management and Territory Protection.**

Name of the associated beneficiary (5): **Friuli Venezia Giulia Autonomous Region Directorate Central for Energy and Environment**

Name of the associated beneficiary (6): **Autonomous Province of Trento**

Name of the associated beneficiary (7): **Regional Agency for Environmental Protection and Energy in the Emilia-Romagna Region**

Name of the associated beneficiary (8): **Regional Agency for Environment of Veneto**

Name of the associated beneficiary (9): **Regional Agency for Environment of Piedmont**

Name of the associated beneficiary (10): **Lombardy Regional Agency for Environmental Protection**

Name of the associated beneficiary (11): **Environmental Protection Agency of Valle d'Aosta**

Name of the associated beneficiary (12): **Environmental Protection Agency of Friuli Venezia Giulia**

Name of the associated beneficiary (13): **Ministry of Environment and Spatial Planning, Slovenian Environment Agency**

Name of the associated beneficiary (14): **Municipality of Bologna**

Name of the associated beneficiary (15): **Municipality of Milan**

Name of the associated beneficiary (16): **City of Torino, The Management Infrastructure and Mobility**

Name of the associated beneficiary (17): **ERVET Spa – Emilia-Romagna Territorial Economic Development**

Name of the associated beneficiary (18): **Lombardy Foundation for the environment**

PROJECT BUDGET AND REQUESTED EC FUNDING
--

Total integrated project budget:	16.805.939 €
Total LIFE eligible project budget:	16.625.439 €
EC LIFE financial contribution requested:	9.974.624 € (= 60 % of total eligible budget)

Coordinating Beneficiary Profile Information					
Short Name	RER			Beneficiary n°	1
Legal information on the Coordinating Beneficiary					
Legal Name	EMILIA-ROMAGNA REGION GENERAL DIRECTORATE FOR TERRITORIAL AND ENVIRONMENTAL CARE			Legal Status	
VAT No	80062590379			Public body	X
Legal Registration No	NOT APPLICABLE			Private commercial	
Registration Date	NOT APPLICABLE			Private non- commercial	
PIC No.	999482375			VAT reimbursement	Yes:X No:
Legal address of the Coordinating Beneficiary					
Street Name and No	VIALE ALDO MORO, 52			PO Box	NA
Post Code	40127	Town/City	BOLOGNA		
Country Code	IT	Country Name	ITALY		
Coordinating Beneficiary contact person information					
Function	TECHNICAL EXPERT OFFICER				
Surname	RAFFAELLI		First Name	KATIA	
E-mail address	Ambpiani@Regione.Emilia-Romagna.it				
Department / Service	GENERAL DIRECTORATE FOR TERRITORIAL AND ENVIRONMENTAL CARE				
Street Name and No	VIALE ALDO MORO 30			PO Box	
Post Code	40127	Town/City	BOLOGNA		
Country	ITALY				
Telephone No	0039 0515276980		Fax No	0039 0515276874	
Coordinating Beneficiary details					
Website	http://ambiente.regione.emilia-romagna.it/				
Brief description of the Coordinating Beneficiary's activities and experience in the area of the proposal					
<p>Emilia-Romagna Region is a public body with exclusive competences in many fields of activity, as legally established by the Italian Constitution (art. 117). It has about 3.000 employees and a total budget of, approximately, 12 billions of Euro. It is organized in directorates working on the sectors of regional competences. The Directorate General for Territory and Environment Protection has more than 800 employees; it is equipped with PCs, printers, phones, internet as well as library with environmental literature. It has competences, among the others, in atmospheric, noise and electromagnetic rehabilitation. The Region has a long experience in European Projects. Among the others, the DG is now Coordinating Beneficiary in 2 LIFE projects (RIL, EREMITA) and associated beneficiary in 4 LIFE projects (PRIMES, AGREE, WI-GIM, RINASCE), one Alpine Space programme (GEOMOL), one MED programme (COAST-GAP), one SOUTH EAST EUROPE (Snap-SEE). Other projects to be mentioned are: Life+ OPERA, MHYBUS, I.MO.S.M.I.D., Climate ChangER, Biomether, Interreg IVC projects LoCaRe and EPTA, IPA Adriatic ALTERENERGY. Since 2002, the Region signed Air Quality Program Agreements to coordinate public bodies involved in the management of air quality in Emilia-Romagna. The last one has been signed in 2012 and contains several measures which aim at reducing pollutant emissions, as foreseen by the EU Directive 2008/50. According to the criteria defined by the Region, since 2006 all the 9 Provinces adopted Air Quality Plans. In 2014, the first Regional Air Quality Plan has been adopted and it contains several measures in all the activities impacting on air quality. In 2005 and 2007 the Regions of the Po basin (Emilia-Romagna, Piedmont, Lombardy, Veneto, Friuli Venezia Giulia, Trento and Bolzano, Valle d'Aosta) signed two Agreements on air quality with common actions to be implemented. In December 2013 the Po Valley Agreement for Air Quality was signed and involves the relevant national Ministries. Emilia-Romagna is a member of Air Quality Initiative of the Regions founded in 2011 and representing 12 Regions from 7 EU Member States, which includes some of the most populated areas of the EU that have been at the forefront of air quality management over recent years.</p>					

YOU MAY NOT DUPLICATE THIS PAGE



COORDINATING BENEFICIARY DECLARATION

The undersigned hereby certifies that:

1. The specific actions listed in this proposal do not and will not receive aid from the European Structural and Investment Funds or other European Union funding programmes. In the event that any such funding will be made available after the submission of the proposal or during the implementation of the project, my organisation will immediately inform the Contracting Authority.
2. My organisation **EMILIA-ROMAGNA REGION, GENERAL DIRECTORATE FOR TERRITORIAL AND ENVIRONMENTAL CARE** has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
3. My organisation (which is legally registered in the European Union) will contribute **797.500,00 €** to the project. My organisation will participate in the implementation of the following actions: **A2, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, D1, E1, E2, E3, E5, E6, F1, F2, F3**. The estimated total cost of my organisation's part in the implementation of the project is **1.981.000,00 €**.
4. My organisation will conclude with the associated beneficiaries and co-financiers any agreements necessary for the completion of the work, provided these do not infringe on their obligations, as stated in the grant agreement with the Contracting Authority. Such agreements will be based on the model proposed by the Contracting Authority. They will describe clearly the tasks to be performed by each associated beneficiary and define the financial arrangements.
5. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.


I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative Guidelines provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At **Bologna** on 9.11.2016

Signature of the Coordinating Beneficiary:

The image shows a handwritten signature in black ink on the left, which is connected to a circular official seal on the right. The seal features the text "Regione Emilia-Romagna" around its perimeter and a central emblem consisting of a square divided into four quadrants by a diagonal line.

Name(s) and status of signatory: **Paolo Ferrecchi - General Director for Territorial and Environmental Care**



PUBLIC BODY DECLARATION

The undersigned hereby certifies that:

My organisation **EMILIA-ROMAGNA REGION, GENERAL DIRECTORATE FOR TERRITORIAL AND ENVIRONMENTAL CARE** is either

A. State or regional or local authority,

or

B. a body governed by public law, or an association formed by one or more of such authorities or bodies governed by public law, or an entity registered as private law body wishing to be considered for the purpose of this call as equivalent to "public body"; it fulfils all four following criteria and will prove it by providing evidence upon first request::

1. it is established for the specific purpose of meeting needs in the general interest, not having an industrial or commercial character, and
2. it has a legal personality and
3. it is financed, for most part, by the State, or regional or local authorities, or other bodies governed by public law; or subject to management supervision by those bodies; or having an administrative, managerial or supervisory board, more than half of whose members are appointed by the State, regional or local authorities or by other bodies governed by public law, and
4. **in the event the organisation stops its activities, its rights and obligations, liability and debts will be transferred to a public body.**

It should be therefore considered a "public body" for the purpose of this LIFE 2015 call for integrated project proposals.

I am legally authorised to sign this statement on behalf of my organisation.

At *Bologna* on 9.11.2016.....

Signature of the Coordinating Beneficiary:

Name(s) and status of signatory: **Paolo Ferrecchi - General Director for Territorial and Environmental Care**

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned, Alessandro Benassi, representing, **Veneto Region – Protection and Development of the Territory Area (Veneto Region), Public Body, Cannaregio, 99, 30121 – Venezia, ITALY, VAT number 02392630279**

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

EMILIA-ROMAGNA REGION, DIRECTORATE GENERAL FOR TERRITORY AND ENVIRONMENT PROTECTION (EMILIA-ROMAGNA REGION), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number No 80062590379

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).

2. The associated beneficiary will contribute 478.712,00 € to the project.

My organisation will participate in the implementation of the following actions: A2 C4 C5 C6 C7 C8 C10 C11 C12 C13 C14 C15 C16 C17 D1 E1 E3 E4 E6 F1 F3

The estimated total cost of my organisation's part in the implementation of the project is 1.185.531,00 €.

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

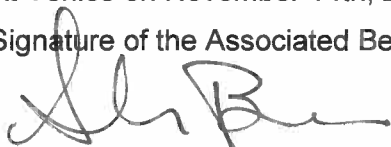
I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Venice on November 14th, 2016

Signature of the Associated Beneficiary:



Name(s) and status/function of signatory:

Alessandro Benassi, Head of *Protection and Development of the Territory Area*

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

Mario Nova, in the role of General Director of the General Directorate "Environment, Energy and Sustainable Development",

representing,

**Lombardy Region, Public body, piazza Città di Lombardia, n. 1, 20124 Milan, Italy,
VAT number n. 12874720159, fiscal code n. 80050050154,**

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE.IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region, Directorate General for Territory and Environment Protection (Emilia-Romagna Region), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number N. 80062590379

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute **197.079 €** to the project.
My organisation will participate in the implementation of the following actions: A2, C4, C5, C6, C7, C8, C9, C13, C16, D1, E1, E2, E3, E5, E6, F1, F3.
The estimated total cost of my organisation's part in the implementation of the project is **492.598 €**.
3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Milan, on 9.11.2016

Signature of the Associated Beneficiary:

IL DIRETTORE GENERALE
Ambiente, Energia e Sviluppo Sostenibile
(Ing. Mario Nova)

Name(s) and status/function of signatory: Mario Nova General Director of the General Directorate "Environment, Energy and Sustainable Development".

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned, ROBERTO GIOVANETTI

representing,

AUTONOMOUS REGION OF FRIULI VENEZIA GIULIA, DIRECTORATE OF ENERGY AND ENVIRONMENT – REG FVG

PUBLIC BODY

official registration Not applicable

Via Giulia 75/1
TRIESTE, IT -34126,

80014930327

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement LIFE-IP PREPAIR with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

EMILIA-ROMAGNA REGION, DIRECTORATE GENERAL FOR TERRITORY AND ENVIRONMENT PROTECTION (EMILIA-ROMAGNA REGION)

PUBLIC BODY

official registration Not applicable

Viale Aldo Moro, 52
BOLOGNA, IT - 40127

80062590379

represented by PAOLO FERRECCHI, DIRECTOR GENERAL FOR TERRITORY AND ENVIRONMENT PROTECTION

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute 344.110 € to the project.
My organisation will participate in the implementation of the following actions: A2, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, D1, E1, E3, E4, E5, E6, F1, F3
The estimated total cost of my organisation's part in the implementation of the project is 860.274 €.
3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At TRIESTE on 25/03/2016

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory:

IL DIRETTORE CENTRALE
avv. Roberto Giovanetti



ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,
ROBERTO RONCO

representing,
**Piemonte Region, Regional Directorate for Territory and Environment Protection
C.so Bolzano 44, 10121 Torino – VAT number n. 02843860012**

hereinafter referred to as "*the associated beneficiary*",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "*the grant agreement*")

hereby:

1. Mandate

EMILIA-ROMAGNA REGION, Regional Directorate for Territory and Environment Protection (Emilia-Romagna region), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number No 80062590379

represented by **PAOLO FERRECCHI, General Director for Territory and Environment Protection**

(hereinafter referred to as "*the coordinating beneficiary*")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and

of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).

2. The associated beneficiary will contribute 698.789,00 € to the project.

My organisation will participate in the implementation of the following actions:

A: Preparatory actions, elaboration of management plans and/or action plans :
A2.

C : Concrete (conservation/ implementation) actions:
C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17.

D: Monitoring of the impact of the project actions
D1.

E: Public awareness and dissemination of results
E1, E2, E3, E4, E6.

F: Project management and monitoring of project progress
F1, F3.

The estimated total cost of my organisation's part in the implementation of the project is 1.746.974,00 €.

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Torino (ITALY) on November 7, 2016

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory:

IL DIRETTORE REGIONALE
Dott. Roberto RONCO

Roberto Ronco

General Director of Directorate for Territory and Environment Protection (Piemonte Region)

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

UGO ROSSI

representing, **Autonomous Province of Trento (Province of Trento), Public Body, Piazza Dante 15, 38122 – Trento, ITALY, VAT number 00337460224**

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region, Directorate General for Territory and Environment Protection (Emilia-Romagna Region), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number N. 80062590379

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and

of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).

2. The associated beneficiary will contribute **472.747,00 €** to the project.

My organisation will participate in the implementation of the following actions: **A1, A2, A3, C4, C5, C6, C7, C8, C13, C15, C16, C17, D1, D2, D4, E1, E2, E3, E4, E5, E6, F1, F3**

The estimated total cost of my organisation's part in the implementation of the project is **1.170.618 €**.

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

29 MAR. 2016

At Trento on.....

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory: UGO ROSSI – President



IL PRESIDENTE
dott. Ugo Rossi
Ugo Rossi

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned, **Carlo Cacciamani**,

representing,

Agenzia regionale per la prevenzione, l'ambiente e l'energia dell'Emilia-Romagna
 Arpae
 Public body
 Via Po, 5 – 40139 Bologna ITALY
 VAT number IT 04290860370

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region, Directorate General for Territory and Environment Protection
 RER
 Public body
 Viale Aldo Moro, 52 – 40127 Bologna ITALY
 VAT number. IT 80062590379

represented by Paolo Ferrecchi, Director General for Territory and Environment Protection

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated

beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute € 673.797 to the project.
My organisation will participate in the implementation of the following actions:
A1, A2, A3, A4, C1, C3, C5, D2, D5, D6, E1, E6 e F1

The estimated total cost of my organisation's part in the implementation of the project is € 1.594.492.

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.


I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Bologna on 05/11/2015

Signature of the Associated Beneficiary:



Dott. Carlo Cacciamani

Director of HydroMeteoClimate Service of Arpae

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned, **NICOLA DELL'ACQUA**, representing, **Regional Agency for Environment of Veneto (ARPA Veneto), Public Body, Via Ospedale Civile, 24, 35121 Padova, ITALY, VAT number 03382700288**

hereinafter referred to as "the associated beneficiary", for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement") hereby:

1. Mandate **Emilia-Romagna Region, Directorate General for Territory and Environment Protection (Emilia-Romagna Region), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number 80062590379**

represented by **Paolo Ferrecchi, General Director for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106 (1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute 276.899,00 € to the project.

My organisation will participate in the implementation of the following actions: A1, A3, A4, C1, C2, C3, D2, D3, D5, D6, E1, E2, E5, E6, F1

The estimated total cost of my organisation's part in the implementation of the project is 663.072,00 €.

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

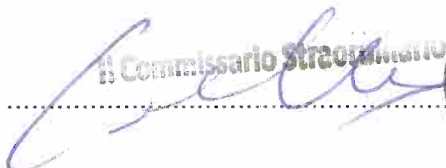
I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Padova on 21 NOV 2016

Signature of the Associated Beneficiary:


.....



Name(s) and status/function of signatory:

Nicola Dell'Acqua – Commissario Straordinario

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned, Ing. Angelo Robotto,

representing Regional Agency for Environment of Piedmont (ARPA Piemonte), Public body, Via Pio VII 9, 10135 Turin – ITALY, VAT number 07176380017,

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region, Directorate General for Territory and Environment Protection (Emilia-Romagna Region), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number No 80062590379

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).

2. The associated beneficiary will contribute **491.102 €** to the project.

My organisation will participate in the implementation of the following actions: **A1, A3, A4, C1, C3, C5, D2, D4, D5, D6, E1, E6, F1.**

The estimated total cost of my organisation's part in the implementation of the project is **1.197.753 €.**

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Turin on 9/11/2016.....

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory:

IL DIRETTORE GENERALE

Ing. Angelo Robotto



ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned, **Michele Camisasca**, representing **Agenzia Regionale per la Protezione dell'Ambiente della Lombardia (ARPA LOMBARDIA)**, public body, Via Rosellini 17, VAT Number 13015060158

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region, Directorate General for Territory and Environment Protection (Emilia-Romagna Region), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number N. 80062590379

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute **544.613 €** to the project.

My organisation will participate in the implementation of the following actions: A1, A2, A3, A4, C1, C2, C3, D2, D5, D6, E1, E3, E6, F1

The estimated total cost of my organisation's part in the implementation of the project is **1.361.533 €**.

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

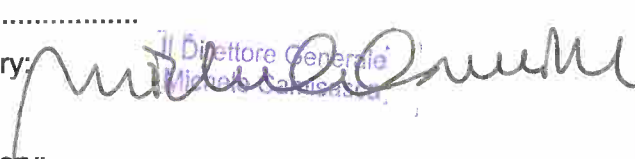
I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Milano on 23.11.16

Signature of the Associated Beneficiary:



Name(s) and status/function of signatory:

Il Direttore Generale
Misure Comunitarie



ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

Giovanni Agnesod,

representing,

Agenzia Regionale per la Protezione dell'Ambiente della Regione Valle d'Aosta ARPAVdA
Public body
Loc. Grande Charrière 44, Saint Christophe, 11020, Italy
VAT number: IT 00634260079,

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement Po Regions Engaged to Policies of AIR with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region, Directorate General for Territory and Environment Protection (Emilia-Romagna Region),
Public body
Viale Aldo Moro 52, 40127 Bologna, Italy
VAT number 80062590379,

represented by Paolo Ferrecchi, Director General for Territory and Environment Protection

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated

beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute **96'338,00 €** to the project.
My organisation will participate in the implementation of the following actions: **A1, A3, A4, C1, C3, D2, D5, D6, E1, E6, F1**.
The estimated total cost of my organisation's part in the implementation of the project is **240'845,00 €**.
3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.


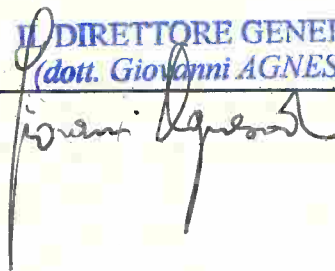
I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Saint Christophe on 23/11/2016

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory:
Giovanni Agnesod, General Director of ARPA Valle d'Aosta

DIRETTORE GENERALE
(dott. Giovanni AGNESOD)



ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

Luca Marchesi, in the role of General Director and legal representative deputy,
 representing the
 Regional Agency for Environmental Protection of Friuli Venezia Giulia [ARPAFVG]
 Public Body
 PIC: 950037595
 Via Cairoli 14, I-33057 Palmanova (UD), ITALY
 VAT and fiscal code number 02096520305

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR" (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region
 Directorate General for Territory and Environment Protection [Emilia-Romagna Region]
 Public Body
 Viale Aldo Moro 52, 40127 Bologna ITALY
 VAT number N. 80062590379

represented by Paolo Ferrecchi, Director General for Territory and Environment Protection
 hereinafter referred to as "the coordinating beneficiary",

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in

Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).

2. The associated beneficiary will contribute 96.338 € to the project.

My organisation will participate in the implementation of the following actions:

A1 (Emission Dataset)

A3 (Preliminary Assessment of the AQ plans impact on air quality)

A4 (Network of special stations for the monitoring of the plan's environmental effect/protocol for realizing experimental campaigns)

C1 (Implementing the data sharing infrastructure and the AQ model)

C3 (implementing the integrated assessment model RIAT+)

D2 (Periodic update of emission data)

D5 (Regular assessment of the air quality of the Po Valley)

D6 (Monitoring the environmental effects of the plans relative to the components not measured by monitoring networks...)

E1 (Information and awareness raising activities)

E6 (Networking with the other LIFE/non LIFE projects)

F1 (Management and monitoring of the project)

The estimated total cost of my organisation's part in the implementation of the project is 240.845 €.

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

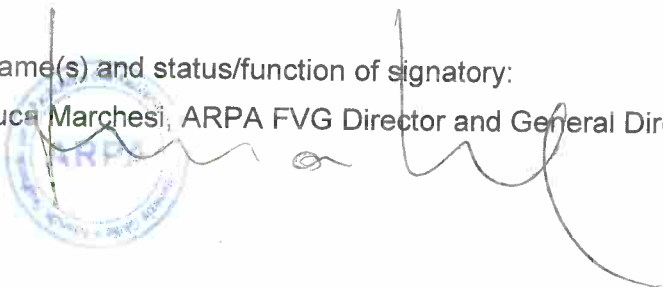
I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Palmanova (UD), on 24.11.2016

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory:

Luca Marchesi, ARPA FVG Director and General Director deputy



ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

Joško Knez, Director General,

representing,

Slovenian Environment Agency (ARSO)

Body of the Ministry of Environment and Spatial Planning (Public body)

Registration No.: 2482878000

Address: Vojkova 1b, SI-1000 Ljubljana, SLOVENIA

VAT No.: SI18945082,

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE IF PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region

Directorate General for Territory and Environment Protection (Emilia-Romagna Region)

Public body

Address: Viale Aldo Moro 52, 40127 Bologna, ITALY

VAT No.: 80062590379,

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute **192,632.00 €** to the project.
My organisation will participate in the implementation of the following actions:
A1, A3, A4, C1, C3, C8, D2, D4, D5, D6, E1, E6, F1
The estimated total cost of my organisation's part in the implementation of the project is **479,906.00 €**.
3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At **Ljubljana** on **25 March 2016**

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory:




Joško Knez
DIRECTOR GENERAL

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

Roberto Diolaiti,

PG 383471
DEL 16.11.2016

representing,

Comune di Bologna [COBO], Public Body, Piazza Maggiore, 6 – 40124 Bologna – IT – ITALY, VAT number N. 01232710374

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

EMILIA-ROMAGNA REGION, DIRECTORATE GENERAL FOR TERRITORY AND ENVIRONMENT PROTECTION (EMILIA-ROMAGNA REGION), Public body, Viale Aldo Moro, 52 – 40127 Bologna – IT – ITALY, VAT number N. 80062590379

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute 369.262 € to the project.
My organisation will participate in the implementation of the following actions: C9, C11, C17, E1, E4, E6, F1.
The estimated total cost of my organisation's part in the implementation of the project is 848.154 €.
3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Bologna on 15 NOV. 2016

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory

Roberto Diolaiti, Environmental Department Director



ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

Filippo Salucci
Central Director of Mobility Department

representing,

Comune di Milano [MIL]
Public body
Piazza Scala 2 – 20121 Milano
VAT Number 01199250158

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement [Title] with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region
Directorate General for Territory and Environment Protection (Emilia-Romagna Region)
Public body
Viale Aldo Moro 52, 40127 Bologna ITALY
VAT number N. 80062590379

represented by Paolo Ferrecchi, Director General for Territory and Environment Protection

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute 197.584 € to the project.
My organisation will participate in the implementation of the following actions:
C.9 – E.1 – E.2 - E.4 – E.6 – F.1
The estimated total cost of my organisation's part in the implementation of the project is 493.961€.
3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Milan on November 8th, 2016

Signature of the Associated Beneficiary:



Filippo Salucci

Director of Mobility, Environmental and Energy Policies Department

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

Mr. Roberto Bertasio

representing,

City of TORINO
Divisione Infrastrutture e Mobilità
(public Body)
Piazza San Giovanni, 5
10122 Torino

VAT: 00514490010

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

EMILIA-ROMAGNA REGION, GENERAL DIRECTORATE FOR TERRITORIAL AND ENVIRONMENTAL CARE (EMILIA-ROMAGNA REGION), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number No 80062590379

represented by **Paolo Ferrecchi, General Director for Territorial and Environmental Care**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).

2. The associated beneficiary will contribute 223.022,00 € to the project.

My organisation will participate in the implementation of the following actions: C9, C10, C11, E1, E4, E6, F1.

The estimated total cost of my organisation's part in the implementation of the project is 546.306,00 €.

3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Torino on 14th November 2016

Signature of the Associated Beneficiary:

Mr Roberto BERTASIO



Name(s) and status/function of signatory:

Mr. Roberto Bertasio, General Director of Infrastructure and Mobility Department

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned,

Elisa Valeriani,

representing,

Territorial Economic Development Agency of Emilia-Romagna (ERVET), *Private entity*, via Morgagni 6, 40122 Bologna – ITALY, VAT Number 00569890379,

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

EMILIA-ROMAGNA REGION, DIRECTORATE GENERAL FOR TERRITORY AND ENVIRONMENT PROTECTION (EMILIA-ROMAGNA REGION), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number No 80062590379,

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute 403.013,00 € to the project.
My organisation will participate in the implementation of the following actions: **A2, C1, C17, D1, E1, E2, E6, F1**.
The estimated total cost of my organisation's part in the implementation of the project is 1.007.532,00 €.
3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

At Bologna.. on 7/11/2016

Signature of the Associated Beneficiary:

Name(s) and status/function of signatory:

ELISA VALERIANI, President



ERVET SPA
IL PRESIDENTE
Elisa Valeriani

ASSOCIATED BENEFICIARY DECLARATION and MANDATE

I, the undersigned, Matteo Fumagalli, representing,

Fondazione Lombardia per l'Ambiente - FLA
Private non-commercial - Fondazione privata senza scopo di lucro
Official registration No: MB - 1892921
Address: Largo 10 Luglio 1976, 1 - 20822 Seveso (MB)
VAT number: 08365380156 (fiscal code),

hereinafter referred to as "the associated beneficiary",

for the purposes of the signature and the implementation of the grant agreement **Po Regions Engaged to Policies of AIR (LIFE-IP PREPAIR)** with the Contracting Authority (hereinafter referred to as "the grant agreement")

hereby:

1. Mandate

Emilia-Romagna Region, Directorate General for Territory and Environment Protection (Emilia-Romagna Region), Public body, Viale Aldo Moro 52, 40127 Bologna ITALY, VAT number N. 80062590379

represented by **Paolo Ferrecchi, Director General for Territory and Environment Protection**

(hereinafter referred to as "the coordinating beneficiary")

to sign in my name and on my behalf the grant agreement and its possible subsequent amendments with the Contracting Authority.

2. Mandate the coordinating beneficiary to act on behalf of the associated beneficiary in compliance with the grant agreement.

I hereby confirm that the associated beneficiary accepts all terms and conditions of the grant agreement and, in particular, all provisions affecting the coordinating beneficiary and the associated beneficiaries. In particular, I acknowledge that, by virtue of this mandate, the coordinating beneficiary alone is entitled to receive funds from the Contracting Authority and distribute the amounts corresponding to the associated beneficiary's participation in the action.

I hereby accept that the associated beneficiary will do everything in its power to help the coordinating beneficiary fulfil its obligations under the grant agreement, and in particular, to provide to the coordinating beneficiary, on its request, whatever documents or information may be required.

I hereby declare that the associated beneficiary agrees that the provisions of the grant agreement, including this mandate, shall take precedence over any other agreement between the associated beneficiary and the coordinating beneficiary which may have an effect on the implementation of the grant agreement.

I furthermore certify that:

1. The associated beneficiary has not been served with bankruptcy orders, nor has it received a formal summons from creditors. My organisation is not in any of the situations listed in Articles 106(1) and 107 of Council Regulation No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union (OJ L298 of 26.10.2012).
2. The associated beneficiary will contribute 277.778 € to the project.
 My organisation will participate in the implementation of the following actions: C6, C7, C8, C9, C13, E1, E2, E3,E5, E6, F1
 The estimated total cost of my organisation's part in the implementation of the project is 694.445 €.
3. The associated beneficiary will conclude with the coordinating beneficiary an agreement necessary for the completion of the work, provided this does not infringe on our obligations, as stated in the grant agreement with the Contracting Authority. This agreement will be based on the model proposed by the Contracting Authority. It will describe clearly the tasks to be performed by my organisation and define the financial arrangements.
4. I commit to comply with all relevant eligibility criteria, as defined in the LIFE Multiannual Work Programme 2014-2017 and the LIFE Call for Proposals including the LIFE Guidelines for Applicants.

This declaration and mandate shall be annexed to the grant agreement and shall form an integral part thereof.

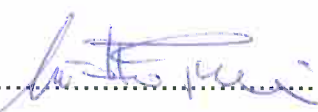
I am legally authorised to sign this statement on behalf of my organisation.

I have read in full the LIFE Model Grant Agreement and the Financial and Administrative GUIDELINES provided with the LIFE application files.

I certify to the best of my knowledge that the statements made in this proposal are true and the information provided is correct.

AtSeveso..... on.....November 7th 2016.....

*Fondazione Lombardia
per l'Ambiente*

Signature of the Associated Beneficiary: 

Name(s) and status/function of signatory: Matteo Fumagalli, President

ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	Veneto Region		Beneficiary n°	2
Legal information on the Associated Beneficiary				
Legal Name	Veneto Region - Environment Department		Legal Status	
VAT No	02392630279		Public body	<input checked="" type="checkbox"/>
Legal Registration No	--		Private commercial	<input type="checkbox"/>
Registration Date	--		Private non-commercial	<input type="checkbox"/>
PIC No.	999465691		VAT reimbursement	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Legal address of the Associated Beneficiary				
Street Name and No	Cannaregio,99		PO Box	NA
Post Code	30121	Town/City	Venezia	
Country Code	IT	Country Name	Italy	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>Coordination of the Regional Plan for Air Quality and management of environmental issues related to air pollution, noise, light and electromagnetic pollution.</p> <p>Coordination of actions related to the Air Quality Plan with the regional structures with specific competence implementation in related sectors (agriculture, energy, transport, etc.).</p> <p>Management of subsidies for actions directly related, such as: sustainable mobility, bike sharing, car conversion from petrol to gas, scrapping impacting vehicles, energy efficiency of heating systems, subsidies to the Municipalities for the days of traffic restrictions, scrapping domestic heating stoves impact with simultaneous replacement with low emissions ones.</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	LOMBARDY REGION		Beneficiary n°	3
Legal information on the Associated Beneficiary				
Legal Name	LOMBARDY REGION		Legal Status	
VAT No	80087670016		Public body	X
Legal Registration No	Not applicable		Private commercial	
Registration Date	Not applicable		Private non-commercial	
PIC No.	999654065		VAT reimbursement	Yes: X No:
Legal address of the Associated Beneficiary				
Street Name and No	Piazza Città di Lombardia, n. 1		PO Box	Not applicable
Post Code	20124	Town/City	Milan	
Country Code	IT	Country Name		
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>Lombardy Region is a Public Administration with institutional commitments concerning the definition and implementation of policies in many fields, included the competence about the achievement of air quality targets. These specific competence is legally established by the Italian Constitution.</p> <p>The air quality issue is one of the different competence of one of the General Directorate of Lombardy, the "Environmental, Energy and Sustainable Development GD".</p> <p>Lombardy Region provided a first consistent Air Quality Plan in 1998, and since then several update and new plans have been built and applied to achieve the air quality targets defined by the EU Directives.</p> <p>Currently, from the 2013, the Regional Action Plan for the Air Quality (PRIA) is in force. The Plan has been adopted by the Regional Government in September 2013 with the deliberation n. 593.</p> <p>It contains numerous measures concerning the main pollutions sources in the regional territory among which agriculture, traffic, industry, etc. The application of those measures is planned until 2020 from 2013, with different steps of short, medium and long time.</p> <p>Moreover, in 2005 and 2007 the region of the Po Valley (Lombardy, Emilia Romagna, Piedmont, Veneto, Friuli-Venezia Giulia, Valle d'Aosta and the Provinces of Trento and Bolzano) signed two agreements on air quality characterised by common actions to be implemented in a coordinated and synergic way.</p> <p>Those activities and this common approach were further developed in December 2013 when the same regions and Provinces signed a new Po Valley Agreement for Air Quality involving in the same time four Ministries at the Regional level, including the Environmental and Health Ministries.</p> <p>Air quality monitoring and management is supported and developed by the Regional Environmental Protection Agency, as in the other region in Italy, on behalf of the region.</p> <p>Lombardy Region, together with other Italian Regions (Emilia Romagna, Piedmont and Veneto), is member of the Air Quality Initiative of Regions (AIR) founded in 2011.</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	Piedmont Region		Beneficiary n°	4
Legal information on the Associated Beneficiary				
Legal Name	Piemonte Region, Directorate for Environment, Management and Territory Protection		Legal Status	
VAT No	02843860012		Public body	X
Legal Registration No	NOT APPLICABLE		Private commercial	
Registration Date	NOT APPLICABLE		Private non-commercial	
PIC No.	999476943		VAT reimbursement	Yes: X No:
Legal address of the Associated Beneficiary				
Street Name and No	C.so Bolzano 44		PO Box	NA
Post Code	10121	Town/City	Torino	
Country Code	IT	Country Name	ITALY	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>Regional Government of Piemonte is the administrative body in charge to implement Air Quality Plan and Programs at regional level. His Environmental Directorate is in charge to prepare the AQ Plan proposal before the Regional Council approval. We also manage the negotiation with stakeholders.</p> <p>Our task is to coordinate all regional plans and programmes related to territory and urban development (landscape included) and related to all environmental issues (air quality included).</p> <p>We assess (during impact assessment procedures) all regional plans related to other issues (i.e. agriculture, energy, mobility, industry, research, etc.) that can involve air quality or reduction of pollution emissions.</p> <p>We coordinate regional measures, established in other plans and programs (even when are subsidies), that can involve Air Quality.</p> <p>Such as measures that involve: sustainable mobility, bike sharing, fuel conversion, scrapping impacting vehicles, energy efficiency of heating systems, district heating, subsidies to the Municipalities for traffic management, congestion charges, low emission zones, scrapping domestic stoves, etc.</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	RAFGV		Beneficiary n°	5
Legal information on the Associated Beneficiary				
Legal Name	FRIULI VENEZIA GIULIA AUTONOMOUS REGION DIRECTORATE CENTRAL FOR ENERGY AND ENVIRONMENT		Legal Status	
VAT No	80014930327		Public body	X
Legal Registration No	NOT APPLICABLE		Private commercial	
Registration Date	NOT APPLICABLE		Private non-commercial	
PIC No.	983174347		VAT reimbursement	Yes: X
			No:	
Legal address of the Associated Beneficiary				
Street Name and No	Via Giulia 75/1		PO Box	NA
Post Code	34126	Town/City	Trieste	
Country Code	IT	Country Name	ITALY	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>The Friuli Venezia Giulia Autonomous Region, as legally established by the Italian Constitution in 1963, is a Public body with different competences in many fields of activity such as Production, Public Health, Education, Mobility, Energy, Environment and others and it is organized in Central Directorates which work on sectors of regional competences. The Directorate Central for Energy and Environment has about 217 employees and its first allocation for year 2016 is about 181.816.961,03 €. It is equipped with PCs, printers, phones, internet connection as well as several libraries with books and database.</p> <p>The DC for Energy and Environment is organized in different Units with relevant competences: Geologic, Water management, Atmospheric, noise and electromagnetic rehabilitation, Waste and reclamation, Environmental Assessments, Energy, Sustainability and environmental protection. The FVG Region has a long history and expertise in European Projects, as a Lead partner, as a Partner and even as an Associate.</p> <p>In 2010, with the Act n. 913, the FVG Regional Government formally approved "the Regional Plan for the improving of the air quality": the main objectives have been established with medium and long term planning which foreseen specific goals and measures to reduce pollutants' concentration in the most critical areas. Thus, the Regional territory have been split in different areas with particular care and attention towards the ones with future critical issues. Measures have been listed in medium and long term and selected by the emission sources as for mobility and energy measures and communication, Plan management and air quality know how.</p> <p>In February 2013 the Regional Government updated the Plan with Act n. 288, and in March same year it definitely approved the Plan's final version with Act. N. 47. In December 2013 the FVG Region also signed the "Coordinated and joint adoption of measures for improving the air quality in the Po Valley Program Agreement" which affiliates are different Italian Ministries and several Regions of Northern Italy. It aims to coordinate the improvement of short, medium and long term measures against pollutants in the Po Valley and the focus is on biomass combustion, freight transport, passengers transport, civil heating, industry and energy production, agriculture.</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information					
Short name	Province of Trento			Beneficiary n°	6
Legal information on the Associated Beneficiary					
Legal Name	Provincia Autonoma di Trento		Legal Status		
VAT No	00337460224		Public body	X	
Legal Registration No	Not applicable		Private commercial		
Registration Date	Not applicable		Private non-commercial		
PIC No.	997859662		VAT reimbursement	Yes: X No:	
Legal address of the Associated Beneficiary					
Street Name and No	Piazza Dante, 15		PO Box	Not applicable	
Post Code	38122	Town/City	Trento		
Country Code	IT	Country Name	Italy		
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal					
<p>The Autonomous Province of Trento is a small and almost entirely mountainous Italian region (6,200 km²) located in North-East of Italy. The total population is approx. 500,000, scattered in more than two hundred municipalities, only five of which have a population of over 10,000.</p> <p>By virtue of a special Statute signed in 1972, PAT government competencies are wider than those of other Italian Ordinary Regions: PAT enjoys a very wide legislative, administrative and financial autonomy in all the most important fields of public government, including energy saving, use of renewable energy sources, environmental protection and safeguarding, health, education, welfare and transport infrastructure. For each of these sectors, it is responsible for planning, programming and implementing the regional energy policy in its territory.</p> <p>The institutional structure of reference for the project is the Provincial Agency for Environmental Protection (APPA). APPA was established in 1995 and it is an institution of the Province of Trento, created on the model of other regional agencies, with a management, administrative, technical and accounting autonomy.</p> <p>APPA meets the need to ensure in all the national territory the presence of the autonomous technical organizations, in order to make smooth and homogeneous collection and processing data on the environment and allow the independent exercise of the activity of advice and technical control on protection of soil, water, air, protection from noise pollution and from radiation, waste management.</p> <p>During the project, APPA will co-operate with the Provincial Agency for Water resources and Energy (APRIE), established in 2006, which is responsible for the coordination of the energy sector. APRIE provides consultancy and technical and administrative support to the provincial government and to the local administrations on matters related to energy and energy planning. APRIE manages the collection of data and the analysis and evaluation of the efficiency of the services provided. APRIE also implements technical and administrative obligations relating to the rational use of energy and the promotion of energy renewable sources, such as issuing permits and licenses, providing control of heating systems and building energy certification, etc.</p>					

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	Arpae		Beneficiary n°	7
Legal information on the Associated Beneficiary				
Legal Name	Agenzia regionale per la prevenzione, l'ambiente e l'energia dell'Emilia-Romagna		Legal Status	
VAT No	04290860370		Public body	X
Legal Registration No	N.A.		Private commercial	
Registration Date	N.A.		Private non-commercial	
PIC No.	999454633		VAT reimbursement	Yes: X
			No:	
Legal address of the Associated Beneficiary				
Street Name and No	Via Po, n. 5		PO Box	N.A.
Post Code	40139	Town/City	Bologna	
Country Code	IT	Country Name	ITALY	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>Arpae stands for "Agenzia Regionale per la Prevenzione, l'Ambiente e l'Energia dell'Emilia-Romagna" (Regional Agency for Environmental Protection and Energy in the Emilia-Romagna Region, Italy). Arpae is an environmental control technical support body to regional, district and local authorities and is administratively and technically independent. Arpae's functions, activities and tasks cover all aspects concerning environmental control, including monitoring of the various environmental components, management and surveillance of human activities and their territorial impacts, activities in support of the environmental impact assessment of plans and projects, creation and management of a regional environmental information system. The Agency's activities are aimed at local, regional and national institutional customers, the business world and private citizens.</p> <p>Arpae also collaborates with the Italian Agency for the Environment and Territory, the European Environmental Agency and Italian, European and international institutes and research centres.</p> <p>Integrated environment-territory-health prevention and support to environmental sustainability policies promoted by the Region are the objectives common to many of Arpae's activities and the basic elements of the Agency's mission. Arpae operates an environmental management and control system which integrates activities associated with verification of conformity to regulations and standards with study and analysis of the causes of degradation and their relative effects. Arpae has developed a special focus on Air Quality monitoring, forecasting, evaluation and managing.</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	ARPAV		Beneficiary n°	8
Legal information on the Associated Beneficiary				
Legal Name	Regional Agency for Environment of Veneto		Legal Status	
VAT No	IT03382700288		Public body	X
Legal Registration No	Not applicable		Private commercial	
Registration Date	Not applicable		Private non-commercial	
PIC No.	999625159		VAT reimbursement	Yes: X No:
Legal address of the Associated Beneficiary				
Street Name and No	Via Ospedale Civile, 24		PO Box	Not applicable
Post Code	35121	Town/City	Padova	
Country Code	IT	Country Name	Italy	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>ARPAV (Regional Agency for Environmental Protection and Prevention of Veneto) is a Public Administration founded in 1996 as technical branch of the Veneto Region on environmental protection issues. The main goal of the Agency is to control and preserve the environment in order to help the identification and elimination of risks to the public health and to the environment.</p> <p>The Regional Air Observatory (RAO) is the Agency's section specialized on air quality/air pollution issues. Founded in 1999 through a co-financing by EU structural funds, it gives technical support on air quality topics to public administrations settled in Veneto, such as the Region, the Provinces and, in some cases, the Municipalities. The RAO is the contact point with the National Environmental Protection Agency (ISPRA) and the Italian Ministry of Environment on air quality management and control themes on behalf of the Veneto Region and it is involved in the drafting of the Regional Air Quality Plan according to the Directive 2008/50/EC. RAO carries out regularly the following tasks:</p> <ul style="list-style-type: none"> · air quality data management, elaboration and reporting on behalf of the Veneto Region; · air quality and emissions indicators elaboration and reporting; · development and updating of the Regional Emission Inventory for estimating air pollutant emissions from sources located in the Veneto territory; · implementation and running of Chemical Transport Models for air pollution assessment and source apportionment analysis; · implementation and running of local air dispersion model for air impact assessment of different pollutant sources (road and navigation transport, industrial plants, etc); · technical support to the Veneto Region in planning policies and actions for the reduction of atmospheric pollution; · support to the Regional Public Authority, through the use of dispersion models for impact assessment, when the decision making process involves projects that undergo to an Environmental Impact Assessment (EIA). 				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information					
Short name	ARPA PIEMONTE			Beneficiary n°	9
Legal information on the Associated Beneficiary					
Legal Name	Regional Agency for Environment of Piedmont		Legal Status		
VAT No	07176380017		Public body	X	
Legal Registration No	Not applicable		Private commercial		
Registration Date	Not applicable		Private non-commercial		
PIC No.	999468892		VAT reimbursement	Yes: X	No:
Legal address of the Associated Beneficiary					
Street Name and No	Via Pio VII 9		PO Box	Not applicable	
Post Code	10135	Town/City	TORINO		
Country Code	IT	Country Name	Italy		
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal					
<p>Arpa Piemonte is a public body with administrative, technical-legal, financial and accounting independence. It is supervised by the President of the Regional Council to guarantee the implementation of the programmes of Piedmont Region on the issue of forecast, prevention and environmental protection. The aims and institutional duties of the Agency are established by national and regional regulations in application of European Union Programmes. This is performed implementing technical-scientific support activities to the institutional actors in Piedmont, ranging from environmental defence and control to preventing and forecasting natural risks.</p> <p>Arpa Piemonte is established at central and territorial level. It has approx 1000 employees, many of them with technical-scientific training, employed in laboratory activities or involved in the production of environmental services and in local environmental protection.</p> <p>The activities are focused mainly on the air quality, water, soil, waste and sites contaminated by pollutants and micropollutants, nature and biodiversity, noise and radiation, technological and natural risks. In particular the "Sistemi Previsionali" Department of Arpa Piemonte carries out processes related to the systematic study, organization and dissemination of information associated to the elements of physical and chemical environment and climate of the Piedmont, aimed to the forecasting and the prevention of natural and environmental risks.</p> <p>Regarding the issue of air quality, the Department manages the regional network of air quality monitoring, develops and implements modelling systems for the yearly assessment of air quality in Piedmont and for the scenario analysis in support of the regional Plans.</p>					

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information					
Short name	ARPA LOMB			Beneficiary n°	10
Legal information on the Associated Beneficiary					
Legal Name	ARPA LOMBARDIA - AGENZIA REGIONALE PER LA PROTEZIONE DELL'AMBIENTE DELLA LOMBARDIA			Legal Status	
VAT No	13015060158			Public body	X
Legal Registration No	Not Applicable			Private commercial	
Registration Date	Not Applicable			Private non-commercial	
PIC No.	954110431			VAT reimbursement	Yes: X No:
Legal address of the Associated Beneficiary					
Street Name and No	Via Rosellini 17			PO Box	Not Applicable
Post Code	23900	Town/City	MILANO		
Country Code	IT	Country Name	ITALIA		
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal					
<p>ARPA Lombardia is the Lombardy Regional Agency for Environmental Protection. It is an autonomous public-sector Agency. It was established by Regional Law 16/1999 (subsequently supplemented by R. L. 14/2010).</p> <p>ARPA Lombardia has an administrative, organizational, technical and accounting autonomy (budget of 100M€ per year). ARPA Lombardia carries out technical and scientific activities (monitoring and controlling), supporting the political and administrative action of the Region, the Provinces, the Municipalities and other public bodies on environmental matters.</p> <p>ARPA Lombardia is part of a National network of Regional Agencies. It has 1.100 Employees divided in one central structure, based in Milan, and 12 Departments, one for each one of the 12 provinces, organized in 25 Offices with 1 Representative Office in Brussels.</p> <p>In short, ARPA Lombardia:</p> <ul style="list-style-type: none"> • carries out all scientific and technical activities necessary to support environment-related administrative work of competent local authorities, • monitors reference data (relating to air, water, soil, nature and biodiversity) and environmental pressures (deriving from economic activities, waste production, noise, transport and energy generation), • provides environmental information, promotes environmental education and encourages the adoption of innovative techniques. <p>About air quality field, ARPA Lombardia manages the Air Quality Monitoring Network, with more than 140 stations. It assures instruments maintenance, the implementation of QC/QA procedures, the validation and publication of all relevant data. ARPA Monitoring network includes special measurements finalized to study the processes of pollution formation and transport. ARPA also uses air pollution models to perform near real time, forecast and scenario evaluations. ARPA manages Air Pollutant Emission Inventory too.</p>					

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information					
Short name	ARPA VDA			Beneficiary n°	11
Legal information on the Associated Beneficiary					
Legal Name	Agenzia Regionale per la Protezione dell'Ambiente della Valle d' Aosta		Legal Status		
VAT No	IT 00634260079		Public body	X	
Legal Registration No	Not applicable		Private commercial		
Registration Date	Not applicable		Private non-commercial		
PIC No.	998883303		VAT reimbursement	Yes: X No:	
Legal address of the Associated Beneficiary					
Street Name and No	Località Grande Charrière 44		PO Box	Not applicable	
Post Code	11020	Town/City	Saint Christophe		
Country Code	IT	Country Name	Italy		
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal					
<p>ARPA Valle d 'Aosta is the technical support of local and regional administrations for environmental protection activities. It's operative since 1997. The main activities of ARPA concerns the control of the physical, chemical and biological processes that characterize the environment in its different components: air, water, soil, etc .; for the specific geographical conditions of the region, situated in the middle of the Alps, the activities concerning the evaluation of the effects of the climate change global dynamics are very relevant. It ensures dissemination of information on environmental issues, through the publication of technical reports and environmental datas, also by online website. ARPA Valle d'Aosta , through its Air Quality and Energy Section, is responsible for monitoring air quality in the Aosta Valley Region, operating within the regulatory framework defined at different levels of government, Italian and regional levels, which descends from the European legislation. Monitoring activities are redefined annually in response to new needs or cognitive demands and territorial regulations. These are the main activities:</p> <ul style="list-style-type: none"> • The air quality control through measurement systems of the Regional Monitoring Network • Interpretation of the pollution phenomena with the use of modelling tools that correlate all the factors that contribute to the dynamics of air quality: the pollution sources, the orography and weather conditions. • Compilation and periodical update of regional pollutant emissions inventory, including greenhouse gases (GHG) ; • technical support in the application of regional energy policies; • Information to citizens by: <ul style="list-style-type: none"> - Publishing every day the measured data; - Spreading a report of air quality forecasting; - Drawing up reports on the state of air quality • Define technical requirements to industry in order to reduce pollutant air emissions. 					

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	Arpa FVG		Beneficiary n°	12
Legal information on the Associated Beneficiary				
Legal Name	Agenzia Regionale per la Protezione dell'Ambiente del Friuli Venezia Giulia		Legal Status	
VAT No	02096520305		Public body	X
Legal Registration No	NA		Private commercial	
Registration Date	NA		Private non-commercial	
PIC No.	950037595		VAT reimbursement	Yes: X No:
Legal address of the Associated Beneficiary				
Street Name and No	Via Cairoli, 14		PO Box	NA
Post Code	I-33057	Town/City	Palmanova	
Country Code	IT	Country Name	Italy	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>ArpaFVG is the Regional Agency for Environmental Protection of Friuli Venezia Giulia and supports regional policy making, environmental monitoring and control management in industrial activities.</p> <p>ArpaFVG, among its facilities and tools, manages:</p> <ul style="list-style-type: none"> • Air quality monitoring network, including deposition monitoring • Meteorological monitoring network • Regional emission inventory periodically updated according to the EU and Italian legislation • Operational air quality chemical-transport numerical model • Operational meteorological numerical model. <p>ArpaFVG dealt with several EU-funded projects, among which the following deserve particular interest for environmental planning:</p> <ul style="list-style-type: none"> • Interreg Alpine Space Programme: <ul style="list-style-type: none"> Imonitraf Project (http://www.imonitraf.org/i4Def.aspx?TabId=364&lang=en) Foralps Project (http://www.ing.unitn.it/~foralps/) • Life Programme: <ul style="list-style-type: none"> WARBO Project (http://www.warbo-life.eu/) • Interreg Italy-Slovenia Programme: <ul style="list-style-type: none"> TRECORALA (http://www.trecorala.eu/it-IT/7-avvio-del-progetto-trecorala) • Programme Adriatic IPA: <ul style="list-style-type: none"> SHAPE (http://www.shape-ipaproject.eu/) 				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	ARSO		Beneficiary n°	13
Legal information on the Associated Beneficiary				
Legal Name	Ministry for Environment and Spatial Planning, Slovenian Environment Agency		Legal Status	
VAT No	SI18945082		Public body	<input checked="" type="checkbox"/>
Legal Registration No	2482878000		Private commercial	<input type="checkbox"/>
Registration Date	NA		Private non-commercial	<input type="checkbox"/>
PIC No.	920448812		VAT reimbursement	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Legal address of the Associated Beneficiary				
Street Name and No	Vojkova 1b		PO Box	NA
Post Code	1000	Town/City	LJUBLJANA	
Country Code	SI	Country Name	SLOVENIA	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>Slovenian Environment Agency (ARSO) is a body of the Ministry for Environment and Spatial Planning (MOP). It has been established in 2001 by joining several Slovenian national institutions dealing with environmental issues. MOP/ARSO includes four offices: Meteorological Office, Hydrology and State of the Environment Office, Seismology and Geology Office, and Environment and Nature Conservation Office. It performs the tasks of National Meteorological and Hydrological Service, and within official duty covers monitoring, analysing and forecasting of meteorological, hydrological and air quality phenomena, and warnings on related hazards. This includes development and maintenance of national monitoring networks, quality control and historical analysis of data, modelling, preparation of future scenarios, forecasting, warnings and support to special users (agriculture, energetics, transport, health, construction, etc.).</p> <p>MOP/ARSO has a long record of activities in the field of Air Quality. It is responsible for emission inventories, and for monitoring, analysing, modelling and forecasting of air quality in Slovenia. It maintains national air quality network of 18 stations, monitoring different pollutants (PM10, PM2.5, O3, NOx, SO2, CO, benzene, benzo(a)pyren and other PAHs, arsenic, cadmium, nickel, and lead), and cooperates strongly with municipalities and industry performing additional air quality monitoring. It has its own Chemical-Analytical Laboratory for air quality analysis, certificated according to SIST ISO/IEC 17025. It runs a photo-chemical model CAMx coupled to meteorological NWP model ALADIN-SI. MOP/ARSO was also heavily involved in the preparation of Air Quality Plans (AQP) for seven areas in Slovenia, where the problem of PM10 was identified. Together with corresponding municipalities it is responsible for realisation of related Programs of identification of causes for PM10 pollution and monitoring of efficiency of measures proposed in AQP.</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	COBO		Beneficiary n°	14
Legal information on the Associated Beneficiary				
Legal Name	Comune di Bologna		Legal Status	
VAT No	1232710374		Public body	<input checked="" type="checkbox"/>
Legal Registration No	NA		Private commercial	<input type="checkbox"/>
Registration Date	NA		Private non-commercial	<input type="checkbox"/>
PIC No.	999590239		VAT reimbursement	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Legal address of the Associated Beneficiary				
Street Name and No	Piazza Maggiore, 6		PO Box	NA
Post Code	40124	Town/City	BOLOGNA	
Country Code	IT	Country Name	ITALY	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>The Municipality of Bologna plays a leading role in national and European environmental policies and has frequently received international acknowledgement for its achievements. It is a founder member of ICLEI, local governments for sustainability, and partner of Eurocities and of Italian cities network Local Agenda 21 Italy.</p> <p>The 40 experts of the environment Department work actively with other Departments towards the goal of urban sustainability.</p> <p>Currently main activities of the environment Department are as follows:</p> <p>Preventive environmental and territorial impact assessment, concerning urban projects and urban planning development programs, having the reference the regional law on Environmental Impact Assessment;</p> <p>Environmental evaluation of different scenarios defined by the Structure Plan of the City, comparing the environmental effects according to the Strategic Environmental Assessment;</p> <p>Implementation and monitoring of the Municipality Energy Programme and Action Plan for the Kyoto target. Among the actions are included green and climate proof Codes application on residential building;</p> <p>Elaboration and management of the municipal Ecobudget (integrating environmental dimension into the master budget);</p> <p>Elaboration and management of educational and dissemination projects (e.g. the Show-room "Energy and Environment" dedicated to promote renewable energy and energy saving technologies, by means of an attractive and communicative interface).</p> <p>Bologna has a good experience in participate or coordinate LIFE projects (see complete list in Other LIFE...). The Department is now coordinating "BLUEAP – Bologna Local Urban Environment Adaptation Plan".</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	Milan		Beneficiary n°	15
Legal information on the Associated Beneficiary				
Legal Name	Municipality of Milan		Legal Status	
VAT No	01199250158		Public body	X
Legal Registration No	Not applicable		Private commercial	
Registration Date	Not applicable		Private non-commercial	
PIC No.	998702204		VAT reimbursement	Yes: X No:
Legal address of the Associated Beneficiary				
Street Name and No	Piazza Scala 2		PO Box	NA
Post Code	20121	Town/City	Milan	
Country Code	IT	Country Name	Italy	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>The Municipality of Milan is an Italian authority responsible for delivering a large number of services across the city (education, social services, economic development, etc.). The Municipality is strongly committed to achieving the ambitious targets to protect health and improve the environment quality and guarantee a sustainable development of mobility in Milan and its hinterland. On sustainable transport and mobility issues Milan City Council has adopted an action plan focused on increasing public transport supply, incentives for public transport use, congestion charge, restricted zones and entrance-hours for commercial vehicles circulation, mobility management measures, promoting sustainable mobility systems (extension of bicycle path, bike-sharing, car-sharing). The City has implemented a programme of cycle improvement and a comprehensive programme of mobility management. Through its Sustainable Urban Mobility Plan (PUMS), the city has been increasing actions for improving the infrastructure and environment for walking and cycling. Milan has been taking part in the EU project Stars (Sustainable Travel Accreditation and Recognition for Schools) which gives the chance to increase experience in delivering cycle promotions in the primary and secondary schools. The city is also carrying on different projects to test and promote electric vehicles both for citizens and commercial trips, such as e-moving project, e-mobility project, Fr-Evue and CityMobil2. The objectives of these projects are to reduce air pollution and noise, to raise awareness of low emission vehicles, and to save money spent on fossil fuels.</p>				

ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	CDT		Beneficiary n°	16
Legal information on the Associated Beneficiary				
Legal Name	City of Torino, The Management Infrastructure and Mobility		Legal Status	
VAT No	005114490010		Public body	<input checked="" type="checkbox"/>
Legal Registration No	Not applicable		Private commercial	<input type="checkbox"/>
Registration Date	Not applicable		Private non-commercial	<input type="checkbox"/>
PIC No.	98653792		VAT reimbursement	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Legal address of the Associated Beneficiary				
Street Name and No	Piazza San Giovanni, 5		PO Box	NA
Post Code	10123	Town/City	Torino	
Country Code	IT	Country Name	Italy	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>Torino is an important business and cultural centre in northern Italy, capital city of the Piedmont region. The population of the city is around 900.000. It has a 130 sq km surface and therefore the density is around 7.000 inh/sq km. It is part of a larger Metropolitan area, that includes 316 towns and around 2.300.000 inhabitants</p> <p>Torino is a major touristy city as well as an academic pole, an R&D centre, a national health centre and a financial/insurance centre. Torino is a node of the Ten-T corridors, therefore in the future it will become a more and more important interchange hub for people and goods. The challenge its to ensure its growth in an environmentally sustainable way. For that reason, the City Government during the last years approved the following programme plans:</p> <ul style="list-style-type: none"> • "TAPE" - Torino Action Plan for Energy: a plan, approved in 2008, identifying 45 key actions aiming at reducing the CO2 emissions of 20% by 2020. • "SUMP" - Sustainable Urban Mobility Plan: a plan, approved in 2010, detailing guidelines for a sustainable and safe mobility. • "BICIPLAN": a plan concerning the development and the growth of bike mobility in order to achieve the goals of the " Charter of Brussels". • "SMILE": a plan defining 40 actions to transform Torino into a Smart City. <p>Furthermore the city is now working on a new, environmentally and economically sustainable, freight delivery plan.</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	ERVET		Beneficiary n°	17
Legal information on the Associated Beneficiary				
Legal Name	ERVET Spa – Emilia-Romagna Valorizzazione Economica Territorio		Legal Status	
VAT No	00569890379		Public body Private commercial Private non-commercial	
Legal Registration No	219669			
Registration Date	06/04/1974			X
PIC No.	964638423		VAT reimbursement	Yes: X
No:				
Legal address of the Associated Beneficiary				
Street Name and No	Via Morgagni, 6		PO Box	Not applicable
Post Code	40122	Town/City	Bologna	
Country Code	IT	Country Name	Italia	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>ERVET is a joint-stock company established in 1974 and owned by the Emilia Romagna Region. ERVET plays the role of regional development agency. ERVET acts within the frame of regional programming and planning, of cooperation among Region, Provinces and Municipalities of Emilia-Romagna and of consultation enhancement with the economic and social forces in order to carry out coordinated actions aimed at promoting a sustainable development and environmental qualification of the regional territory.</p> <p>The Economic Development and Environment Unit of ERVET is engaged since the early and mid '90s in the support of regional policies towards cleaner production and in the promotion of innovative tools and techniques for environmental management of enterprises, local clusters and public administrations. The Unit provides policy advice and technical support to the Emilia-Romagna Regional Authority through experimental and innovative projects.</p> <p>The main fields of work of the Unit are:</p> <ul style="list-style-type: none"> • Regional policies towards climate change • Sustainable consumption and production • Sustainable management of industrial clusters • Voluntary instruments for environmental management • Communication and support to participation processes on sectorial environmental plans • Regional policies for air, waste and water management, pollution prevention • Strategic Environmental Assessment for plans and programmes. <p>In the past, ERVET, supported the Emilia-Romagna Region spreading the Covenant of Mayors among local authorities and elaborated guidelines for the development of climate change plans and economic valorisation of carbon credits.</p> <p>Moreover, ERVET is supporting the Emilia Romagna Region in the elaboration and development of the Regional Air Quality Plan.</p>				

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ASSOCIATED BENEFICIARY PROFILE (complete for each Associated Beneficiary)

Associated Beneficiary profile information				
Short name	FLA		Beneficiary n°	18
Legal information on the Associated Beneficiary				
Legal Name	Fondazione Lombardia per l'Ambiente		Legal Status	
VAT No	08365380156 (fiscal code)		Public body	<input type="checkbox"/>
Legal Registration No	MB 1892921		Private commercial	<input type="checkbox"/>
Registration Date	25/10/2013		Private non-commercial	<input checked="" type="checkbox"/>
PIC No.	951041351		VAT reimbursement	Yes <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Legal address of the Associated Beneficiary				
Street Name and No	Largo 10 Luglio, 1976, 1		PO Box	NA
Post Code	20822	Town/City	Seveso	
Country Code	IT	Country Name	Italy	
Brief description of the Associated Beneficiary's activities and experience in the area of the proposal				
<p>The Lombardy Foundation for the Environment is a non-profit scientific institution, established by the Lombardy Region and the main regional Universities to provide policy-makers with a science-based expertise for the development and implementation of environmental legislation and policies. FLA with Regione Lombardia coordinated the "Piano Regionale di Risanamento della Qualità dell'Aria", offered a synthesis of knowledge on the different types of air pollutants and the weather/climatic characteristics that influence the spread of pollutants. FLA coordinated the "Kyoto Lombardia Project" on the climate change mitigation and adaptation strategies in Lombardy. The project carried out also technological, economic and environmental assessments of efficient and clean use of wood biomass. FLA worked in the project "Analisi di rischio connesso alla qualità dell'aria della Valtellina" with the main objectives to plan and develop a census of the heating systems involving the citizens and their sensitivity to environmental issues, and also to develop of fine particulate emission maps for municipalities investigated. FLA was partner of EU PROFORBIOMED project aimed at a sustainable use of forest residual biomass as a renewable energy source, where it developed a new traceability protocol for forest biomass and a web portal to favour a stricter cooperation between users and producers. FLA promoted a voluntary agreement named "Biomass for Energy Pact" addressed to an international network of stakeholders interested in the use of biomass. FLA was partner of European ALPSTAR focused on the development of best local practices in the perspective of a carbon-neutral Alpine region. FLA implemented a Pilot Action based on an assessment of the existing biomass energy systems and aimed at a better exploitation of the local biomass potential. The Scientific Coordinator of FLA is the leader of a Research Unit in the European FP7 project "BioMaxEff" that is developing new advanced technologies for small-size boilers fuelled by wood biomass with high energy performance and very low emissions.</p>				

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CO-FINANCER PROFILE AND COMMITMENT FORM

Legal Name and full address of the co-financer			
Legal Name			
Legal address of the co-financer			
Street Name and No		PO Box	
Post Code		Town/City	
Country Code		Country Name	
Financial commitment			
We will contribute the following amount to the project: Euro		
Status of the financial commitment			
Confirmed	<input type="checkbox"/>	To be confirmed	<input type="checkbox"/>
Signature of the authorised person			
Name and status of the authorised person (obligatory):			
Date of the signature (obligatory):			
Authorised signature (obligatory):			
Comment			

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OTHER PROPOSALS SUBMITTED FOR EUROPEAN UNION FUNDING

Please answer each of the following questions :

- Have you or any of your associated beneficiaries already benefited from previous LIFE co-financing? (please cite LIFE project reference number, title, year, amount of the co-financing, duration, name(s) of coordinating beneficiary and/or partners involved):

LIFE14 CCA/IT/001280 - LIFE PRIMES, 01.10.2015-31.07.2018,€ 2.366,767, Region Emilia-Romagna (AB).

LIFE 14 NAT/IT/000209 - LIFE EREMITA, 01.01.2016-31.12.2020, € 2.126.987,00, Region Emilia-Romagna (CB).

LIFE13 NAT/IT/000115-AGREE 2013, 01.06.2014-30.04.2019, € 2.178.901, Region Emilia-Romagna (AB).

LIFE13 ENV/IT/000169-LIFE RINASCHE, 2013, 02.07.2014-21.12.2018, € 1.135.000, Region Emilia-Romagna (AB).

LIFE 11 ENV/IT/000243-LIFE RII, 2011, 3.9.2012-31.12.2016, € 600.000, Region Emilia-Romagna (CB).

LIFE12 ENV / IT / 001 033 - Wi-GIM Life, 2012, 01.01.2014-30.09.2018, Region Emilia-Romagna (AB).

LIFE07ENV/IT/000388, CARBOMARK, 2007, € 544.014, 36 months, Region Veneto; Region FVG, UNIUD, UNIPD.

LIFE09ENV/IT/000078, MANFOR C.BD, 2009, € 2.483,271, 60 months, CNR di Monterotondo (RM); Università del Molise, CRA, Regione Veneto, Regione Molise, Istituto Forestale Sloveno.

LIFE12NAT/IT/000807, WOLFALPS, 2012, € 430.613, 57 months, Region Veneto; Parco Naturale delle Alpi Marittime (CB);.

LIFE12 ENV/IT/000153, LIFE InBioWood, € 1.185.816,00 , 54 months, Consorzio di Bonifica Veronese (CB), Beneficiari associati: Regione del Veneto

LIFE12ENV/IT/000578, HELPSOIL, 2012, € 1.308.381, 48 months, CB: Regione Lombardia.

LIFE11 NAT/IT/000044, GESTIRE, 2011, 1,626,916.00 €, 01-10-2012 to 30-09 -2015, Regione Lombardia (CB).

LIFE11 ENV/IT/000256, COSMOS-RICE, 2011, 659,224.00 €, 01-01-2013 to 31-12-2015, Centro Servizi Multisetoriale e Tecnologico (CB), Regione Lombardia.

LIFE11 NAT/IT/000188, CON.FLU.PO., 2011, 3,496,809.00 €, 01-12-2012 to 30-06-2017, Regione Lombardia.

LIFE 13 NAT/SI/000550,DINALP BEAR, 2014, 01/07/2014 – 30/06/2019, Budget PAT: 248.011,00, Eu: 173.608,00, Co-beneficiary: Provincia di Trento.

LIFE11 NAT/IT/187.TEN, 2012, 01/07/2012 - 31/12/2016, Budget PAT: 1.367.668,00,Eu: 683.971,00,Co-beneficiary: Provincia di Trento.

LIFE11 ENV/IT/002,CLEAN ROADS: 2012, 01/09/2012 - 01/01/2016, Budget PAT: 652.750,00, Eu: 359.600,00, Co-beneficiary: Provincia di Trento.

LIFE09 ENV/IT/000092, OPERA, 405 831.00 €, sep. 2010 to sep. 2013, CB: Arpae-ER.

LIFE12 ENV/IT/000404 - ClimateChangER : Regione Emilia Romagna (CB), Arpae ER (Beneficiary) - 76.675,00 - 42 months.

LIFE13/ENV/IT/225 GIOCONDA CB: Istituto di Fisiologia Clinica, CNR, Beneficiary: Arpae, 106.584,00 - 30 months.

LIFE10 ENV/IT/331 – HIA21 - CB: C.N.R. Istituto di Fisiologia Clinica , Beneficiary: Arpae, € 122.500,00 - 40 months.

LIFE00/ENV/IT/000184 GIADA - 01-feb-2001 to 31-jan-2004 / € 616.813,54,00 /36 months / CB and/or partners: Comune di Vicenza, Comune di Arzignano, ARPAV e ENEA.

LIFE06/EN/D/00477, PARFUM - 01/10/2006 to 30/03/2009 / € 971.182,00 / 30 months / CB and/or partners: Regional Environmental Protection Agency.

LIFE03 ENV/IT/000343, DesAir Budget: 562,554.00 €, 251,278.00 €, 01-OCT-2003 to 30-

SEP-2005, CB Università Bocconi, Partners: ARPA Lombardia, Regione Lombardia.
LIFE12ENV/IT/000834, MED-HISS, 2013, EC euro 790,788.00, 36 months. CB: ARPA Piemonte.

LIFE+10ENV/IT/00000327, MED-PARTICLES, 2011, euro: 901,579.00, Duration 24 months
CB ASL RME – Partners: ARPA Piemonte, Arpae ER.

LIFE12 ENV/IT/000393 PREFER PRoduct, CB Scuola Sant'Anna, Partner: ERVET, Lombardy Region, 01/10/2013-31/12/2016, Budget: € 1.541.845.

LIFE+11 ENV/IT/119 – BLUEAP, 01/10/12 – 30/09/15, 493,024 EUR, CB: Comune di Bologna, Partner: Ambiente Italia, Kyoto Club, Arpae.

LIFE09 ENV/IT/074–GAIA, 10/10/2010–30/04/2013, 600,000 EUR, CB: Comune di Bologna.

LIFE09 ENV/IT/200–LAIKA, 01/10/2010 – 30/09/2013, 926,327 EUR, CB: Comune di Milano, Partner: Comuni di Bologna e Torino.

LIFE14 CCA/IT/000663 IRIS, CB: ERVET, Partner: Consorzio Attività Produttive, Carlsberg Italia, ERGO, SIPRO, Scuola Sant'Anna, TerrAria, 15/09/2015-15/03/2019, € 1.658.680

LIFE09ENVIT000105, ETABETA, CB: Milano Metropoli, Partner: Liguria Ricerche, Conser, Emilia-Romagna Region, Sardegna Region, IAT, Ambiente Italia, 01/09/2010-30/04/2013, € 1.960.000

LIFE08 INF/IT/000312, PROMISE, CB: Liguria Region, Partner: ERVET, Lazio Region, ANCC-COOP, Confindustria Genoa and Liguria, 01/01/2010-30/06/2012, € 1.417.400

LIFE07 ENV/IT/000515, ECCELSA, CB: Scuola Sant'Anna, Partner: ERVET, SIGE, GEMINI, Ambiente Italia, IFE Bocconi, 01/01/2009–31/12/2011, € 1.597.748

LIFE98 ENV/IT/000098, ISOLA, CB: Municipality of Modena, Partner: ERVET, Arpae ER, AUTODESK, 19/11/1998–19/05/2002, € 1.085.718

- Have you or any of the associated beneficiaries submitted any request for financing for actions or part of this project to other European Union financial instruments? To whom? When and with what results?

ALCOTRA 2007-2013: strategic project AERA (Air Environment Regions ALCOTRA), started in 2010 and finished 2013, where main goals was to improve the efficiency of protection plans for air quality and identify joint preservation strategies in cross-border areas in accordance with the 2008/50/EC (<http://www.aera-alcotra.eu/>). Piedmont Region beneficiary.

PART'AERA (ALCOTRA Programme 2007-2013): The project PART'AERA (January 2013-December 2015) aims to respond to the Community objectives relating to the improvement of knowledge on air pollution, both in terms of its sources and their specific contribution, comparing at the same time the issues metrological across borders and allowing the harmonization of policies and management plans to reduce joint transboundary pollution. Coordinator: AIR Rhone-Alpes; Partners: AIR PACA, ARPA Piemonte, Regione Liguria.

SH'AIR (ALCOTRA Programme 2007-2013): The project SH'AIR (Système d'échange Atmosphérique Inter Regional sur la zone ALCOTRA) has two main objectives: the identification of emission sources and the role of exogenous transport in air pollution of ALCOTRA territory; on the other, the development of an educational project to increase awareness of the air quality - with the involvement of teachers, students, entertainers and experts - to make available on the web a series of teaching modules on air pollution. ARPA Piemonte beneficiary.

iMONITRAF! (Alpine Space Programme 2007-2013): Implementation of MONITRAF (Monitoring of road traffic related effect), objectives are to develop common strategies for transalpine traffic and to put them into action: a long-lasting political network was established, evaluation instruments was developed, regional indicators was interpreted to assess effects of Alpine traffic, innovative measures for modal shift improvements was assessed, a web-GIS system to visualise past trends and effects of measures was built. ARPA Piemonte beneficiary.

FLA participated as project's partner at two EU projects related with PREPAIR themes:

PROFORBIOMED-Promotion of residual forestry biomass in the Mediterranean basin. The project is linked to the promotion of the use of renewable energy through the development of an integrated strategy for the use of forest biomass as energy source. The strategy includes

key points: the sustainable use of unused potential of forest biomass, the development of the technical and legal principles and the promotion of the use of forest biomass for energy production through the involvement of key stakeholders in the supply chain forest-wood-energy. The strategy must take into account sustainability and compatibility with other uses of biomass in Mediterranean forests and offers new economic opportunities in rural areas.

ALPSTAR-Toward Carbon Neutral Alps – Make Best Practice Minimum Standard. The project aimed to define such good practices in preparation and implementation of strategies, action plans and measures toward carbon neutrality in the Alpine regions. In this project FLA is implementing a Pilot Action that has the main objective to assess in detail the current state of existing systems from the energetic, environmental and economic point of view; to assess the potential maximum development of the various "bioenergy" across the province, depending on the availability of actual and sustainably used and propose various scenarios of development of new systems, quantifying the potential benefits of energy, environmental and economic benefits.

Municipality of Turin:

2010-2012 - CITY LOG – FP7 – Partner - <http://www.city-log.eu/> -Sustainability and efficiency of city logistic.

2012-2015 - PUMAS– Alpine Space – Partner - <http://www.pumasproject.eu/>- SUMPS for a Sustainability and efficiency city logistics

2013–2016 – OPTICITIES FP 7-Partner - <http://www.opticities.com> - Traveler information service Decision support tools.

2015–2018 – SOCIALCAR – H2020 – Development of Intelligent Transport System for the implementation of a Car pooling in urban area.

2015–2018 – NOVELOG – H2020 – Testing new policies to improve the transport of goods in urban areas.

Friuli Venezia Giulia:

“COME – Energy efficiency way for municipalities” Interreg IV Italy-Austria, total budget € 1.102.574;

“ALTERENERGY - Energy Sustainability for Adriatic Small Communities”, IPA ADRIATIC CB Programme, total budget € 12.499.600;

“CEP REC - Introduction of Regional Energy Concepts”, Interreg Central Europe, total budget € 2.164.900,00.

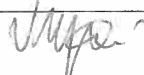
Referring to MOP/ARSO, the content of SINICA project (Nadgradnja sistema za spremljanje onesnaženosti zraka, ugotavljanje vzrokov •ezmernih obremenitev in analizo u•inkov ukrepov za izboljšanje - Upgrade of the system for the air quality monitoring, analysis of the factors leading to excessive pollution levels and abatement measures evaluation) is included in the adopted Operational Programme for the Implementation of the EU Cohesion Policy in 2014-2020. The project proposal was submitted to the competent authority in February 2016.

**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR- LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Emilia Romagna Region – Direzione Economia della conoscenza, del lavoro e dell'impresa, (General Directorate for Knowledge, Labour and Enterprise Economy)		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Viale Aldo Moro, 44	PO Box	
Post Code	40127	Town/City	Bologna
Country Code	IT	Country Name	Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the ERDF Emilia Romagna (Fund) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the ERDF Emilia Romagna (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the ERDF Emilia Romagna (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
	Comments: Feasibility to be verified		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments: The OP ERDF has been granted on 12/2/2015. The specific funds identified for implementation of the complementary actions of the project are being currently assigned through the specific procedures.			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Morena Diazzi General Director for Knowledge, Labour and Enterprise Economy		
Date of the signature (obligatory):	<i>Morena Diazzi</i> M.M.2016		
Authorised signature (obligatory):			

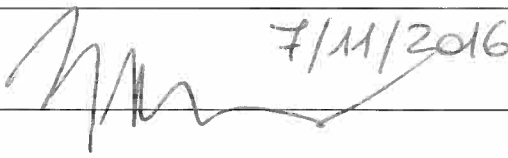
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**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR- LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Emilia Romagna Region – General Directorate for Agriculture, Fishery and Wildlife Activities		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Viale della Fiera 8	PO Box	
Post Code	40127	Town/City	Bologna
Country Code	IT	Country Name	Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the EAFRD Emilia Romagna (Fund) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the EAFRD Emilia Romagna (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the EAFRD Emilia Romagna (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments: The OP EAFRD has been granted on 26/5/2015. The specific funds identified for implementation of the complementary actions of the project are being currently assigned through the specific procedures.			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Valtiero Mazzotti General Director of Agriculture, Fishery and Wildlife Activities		
Date of the signature (obligatory):	7/11/2016		
Authorised signature (obligatory):			

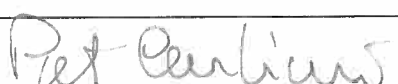
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**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR- LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Emilia Romagna Region – General Directorate for Territorial and Environmental Care		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Viale Aldo Moro, 30	PO Box	
Post Code	40127	Town/City	Bologna
Country Code	IT	Country Name	Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the PAA Emilia Romagna (Fund) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the PAA Emilia Romagna (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the PAA Emilia Romagna (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments: to be granted			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Paolo Ferrecchi General Director for Territorial and Environmental Care		
Date of the signature (obligatory):	 7/11/2016		
Authorised signature (obligatory):			


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**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR – LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Veneto Region – Direzione Programmazione Unitaria		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Dorsoduro, 3494/A	PO Box	
Post Code	30123	Town/City	Venice
Country Code	IT	Country Name	Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the ERDF (Fund) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the ERDF (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the ERDF (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>	To be committed/confirmed <input type="checkbox"/>		
Comments: the OP ERDF has been granted on 17/08/2015			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Pietro Cecchinato – Direttore della Direzione Programmazione Unitaria		
Date of the signature (obligatory):	23 NOV. 2016		
Authorised signature (obligatory):	 IL DIRETTORE Pietro Cecchinato		

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**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR – LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Veneto Region – AdG FEASR, Parchi e Foreste		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Via Torino, 110	PO Box	
Post Code	30172	Town/City	Venezia Mestre
Country Code	IT	Country Name	Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the EAFRD (Fund) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the EAFRD (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the EAFRD (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
	Comments: the RDP allocated resources to measures 10.1.1 and 10.1.2 1 are already committed;so the Managing Authority can't set up such selection criteria. Complementarity of EAFRD objectives with the PREPAIR is confirmed		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments: The OP EAFRD has been granted on 26/05/2015			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Franco Contarin - Direttore della Direzione AdG FEASR, Parchi e Foreste		
Date of the signature (obligatory):	1 6 NOV 2016		
Authorised signature (obligatory):	 IL DIRETTORE Franco Contarin		

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LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY

PROFILE AND COMMITMENT FORM

Title of the LIFE Integrated Project			
Title: LIFE IP-PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Lombardy Region – General Direction-University, Research and Open Innovation – U.O Managing Authority of the OP ERDF 2014-2020		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Piazza Città di Lombardia. N. 1	PO Box	
Post Code	20124	Town/City	Milan
Country Code		Country Name	Italy
Confirmation			
<p>We confirm that the complementary actions identified in this proposal and intended to be financed by the European Regional Development Fund (ERDF) are in principle eligible for financing.</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: We confirm that the actions intended to be financed by the Action IV.4.e.1.1 (Lombardy Region ERDF Fund) are closely linked to the Life IP PREPAIR since both contribute to the implementation of the Air Quality Plan. The grant has been applied for, but not yet granted. Financial contributions on "Cycling mobility" will be assigned to beneficiaries at the end of 2016</p>		
	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: Maximum amount of potential funding 20.000.000 eur to be confirmed during the operational phase of fund assignment that will occur according to specific procedure. Therefore only at the end of the preliminary activity and of the re-planning of the funds we could specify the real funds mobilized.</p>		
<p>We confirm that the proposal indicates correctly the potential financial contribution from the European Regional Development Fund (ERDF).</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: Temporal development of the Life IP PREPAIR is in line with temporal development of the ERDF.</p>		
	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: To be really confirmed during the operational phase of fund assignment that will occur</p>		
<p>We confirm that the proposal indicates correctly the timing of potential funding from the European Regional Development Fund (ERDF).</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: To be really confirmed during the operational phase of fund assignment that will occur</p>		
	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: To be really confirmed during the operational phase of fund assignment that will occur</p>		
<p>We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE Integrated project.</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: To be really confirmed during the operational phase of fund assignment that will occur</p>		
	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: To be really confirmed during the operational phase of fund assignment that will occur</p>		

	according to specific procedure. Therefore only at the end of the preliminary activity and of the re-planning of the funds we could specify the real funds mobilized.
Status of the financial commitment	
Committed/confirmed <input type="checkbox"/>	To be committed/confirmed <input checked="" type="checkbox"/>
Comments:	
Signature of the authorised person	
Name and status of the authorised person (obligatory):	Rosetta Gagliardo – Managing Authority of the Lombardy Region OP ERDF 2014-2020
Date of the signature (obligatory):	21/11/16
Authorised signature (obligatory):	ROSETTA GAGLIARDO


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LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY

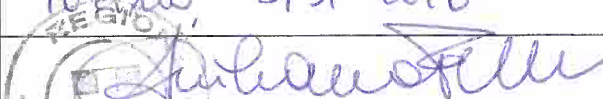
PROFILE AND COMMITMENT FORM

Title of the LIFE Integrated Project			
Title: LIFE IP-PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Lombardy Region - DG Agricoltura – U.O. Programmazione Sviluppo Rurale e Semplificazione Amministrativa		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Plazza Città di Lombardia. N. 1	PO Box	
Post Code	20124	Town/City	Milan
Country Code		Country Name	Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the EAFRD Fund are in principle eligible for financing.	<p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: Moreover we confirm that the actions intended to be financed by the operations 8.6.02 and 10.1.10 (EAFRD fund) are in closely linked to the Life IP PREPAIR since both contribute to the implementation of the Air Quality Plan. The grant has not yet been applied for.</p>		
We confirm that the proposal indicates correctly the potential financial contribution from the EAFRD Fund.	<p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: Maximum amount of potential funding 5.800.000 eur to be confirmed during the operational phase of fund assignment that will occur according to specific procedure. Therefore only at the end of the preliminary activity and of the re-planning of the funds we could specify the real funds mobilized.</p>		
We confirm that the proposal indicates correctly the timing of potential funding from the EAFRD Fund.	<p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: Temporal development of the Life IP PREPAIR is in line with temporal development of the EAFRD.</p>		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	<p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: To be really confirmed during the operational phase of fund assignment that will occur according to specific procedure. Therefore only at the end of the preliminary activity and of the re-planning of the funds we could specify the real</p>		

	funds mobilized.
Status of the financial commitment	
Committed/confirmed <input type="checkbox"/>	To be committed/confirmed <input checked="" type="checkbox"/>
Comments:	
Signature of the authorised person	
Name and status of the authorised person (obligatory):	Pietro Buonanno – Managing Authority of the Lombardy Region EAFRD Fund
Date of the signature (obligatory):	1. 6. NOV. 2018
Authorised signature (obligatory):	 Dirigente Pietro Buonanno

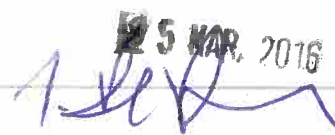

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**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: LIFE15 IPE/IT PREPAIR "Po Regions Engaged to Policies of AIR"			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Piemonte Region – Directorate Competitiveness		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Via Piasano n. 6	PO Box	
Post Code	10152	Town/City	TORINO
Country Code	IT	Country Name	ITALY
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the Operative Program for Piemonte (ERDF) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the Operative Program for Piemonte (ERDF).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the Operative Program for Piemonte (ERDF).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding received by our authority, we will take into account that they are linked to the LIFE integrated project.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>	To be committed/confirmed <input type="checkbox"/>		
Comments:			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Giuliana Fenu General Director		
Date of the signature (obligatory):	Torino, 3/3/2016		
Authorised signature (obligatory):			

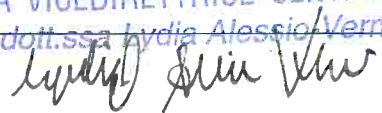
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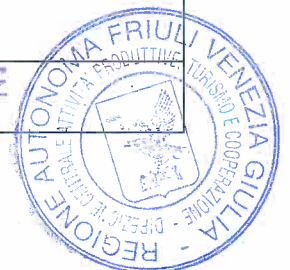
**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: LIFE15 IPE/IT PREPAIR "Po Regions Engaged to Policies of AIR"			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name		Piemonte Region – Directorate Agriculture	
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	C so Stati Uniti n. 21	PO Box	
Post Code	10128	Town/City	TORINO
Country Code	IT	Country Name	ITALY
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the EAFRD (European Agricultural Fund for Rural Development) are in principle eligible for financing.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that the proposal indicates correctly the potential financial contribution from the EAFRD (European Agricultural Fund for Rural Development).		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that the proposal indicates correctly the timing of potential funding from the EAFRD (European Agricultural Fund for Rural Development).		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that during the assessment of applications for funding (to be) received by our authority, we will take into account that they are linked to the LIFE integrated project.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments:			
Signature of the authorised person			
Name and status of the authorised person (obligatory):		Gaudenzio De Paoli General Director	
Date of the signature (obligatory):		5 MAR. 2016	
Authorised signature (obligatory):			
			


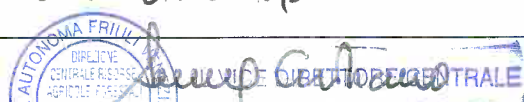
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**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR- LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Autonomous Region Friuli Venezia Giulia – Central Directorate Production, Tourism and Cooperation – Manufacturing area		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Via Trento, 2	PO Box	
Post Code	34132	Town/City	TRIESTE
Country Code	IT	Country Name	ITALY
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the ERDF Friuli Venezia Giulia (Fund) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the ERDF Friuli Venezia Giulia (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the ERDF Friuli Venezia Giulia (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments: The OP ERDF has been granted on 14/07/2015 Decision CE(2015) 4814			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Lydia Alessio Verni – Deputy director of Central Directorate Production, Tourism and Cooperation – Manufacturing area – Managing authority of the ERDF OP		
Date of the signature (obligatory):	23/03/2016		
Authorised signature (obligatory):	LA VICEDIRETTRICE CENTRALE dott.ssa Lydia Alessio Verni 		



**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR- LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Autonomous Region Friuli Venezia Giulia – direzione centrale risorse agricole, forestali e ittiche – area sviluppo rurale		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Via Sabbadini, 31	PO Box	
Post Code	33100	Town/City	UDINE
Country Code	IT	Country Name	ITALY
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the EARDF Friuli Venezia Giulia (Fund) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
We confirm that the proposal indicates correctly the potential financial contribution from the EARDF Friuli Venezia Giulia (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
We confirm that the proposal indicates correctly the timing of potential funding from the EARDF Friuli Venezia Giulia (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/> To be committed/confirmed <input type="checkbox"/>			
Comments: The OP EARDF has been granted on 24/09/2015			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Serena Cutrano – Vice Direttore centrale - direzione centrale risorse agricole, forestali e ittiche – area sviluppo rurale		
Date of the signature (obligatory):	23.08.2016		
Authorised signature (obligatory):	  dott.ssa Serena Cutrano		

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**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Polices of AIR – LIFE IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Provincia autonoma di Trento – Servizio Europa		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Via Gilli 4	PO Box	
Post Code	38121	Town/City	Trento
Country Code	IT	Country Name	Italy
Confirmation			
<p>We confirm that the complementary actions identified in this proposal and intended to be financed by the European Regional Development Fund (ERDF) are in principle eligible for financing.</p>	<p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: part of the funds of ERDF provincial Operational Programme will be used for energy efficiency of buildings in line with the strategy to reduce polluting emissions In detail: Axis 3. Action 3.1.1. incentives for reducing energy consumption of enterprises Axis 3. Action 3.2.1 Promotion of eco-efficiency and reduction of primary energy consumption in buildings and public facilities. Possible revisions both in financial allocation and in the content of energy efficiency actions could be possible during the implementation of the Operational Programme.</p>		
<p>We confirm that the proposal indicates correctly the potential financial contribution from the European Regional Development Fund (ERDF).</p>	<p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: the amount indicated in the FP (financial plan of the AF LIFE IP Prepair relates to the financial contribution of the provincial Operational Programme ERDF as a whole (it is composed by 50% European fund, 35% Italian state fund, 15% provincial fund)</p>		
<p>We confirm that the proposal indicates correctly the timing of potential funding from the European Regional Development Fund (ERDF).</p>	<p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: it is expected to enable the measures to improve energy efficiency within the duration of the project LIFE IT Prepair</p>		

<p>We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments:</p>
<p>Status of the financial commitment</p>	
<p>Committed/confirmed <input type="checkbox"/> To be committed/confirmed <input checked="" type="checkbox"/></p> <p>Comments: Energy efficiency measures are foreseen in the provincial Operation Programme approved by the European Commission on 12 February 2015, but funds have not yet been committed. They will be committed through related calls for projects or tender procedures.</p>	
<p>Signature of the authorised person</p>	
<p>Name and status of the authorised person (obligatory):</p>	<p>Mr. Michele Michelini Head of Servizio Europa</p>
<p>Date of the signature (obligatory):</p>	<p>22 MAR. 2016</p>
<p>Authorised signature (obligatory):</p>	<p><i>Michele Michelini</i></p>

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Datum: - 9 -11- 2016

LIFE Integrated Projects 2015 – A8/13

Podpis:

**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

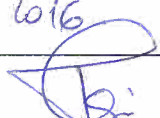


Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR- LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name		Republic of Slovenia Government Office for Development and European Cohesion Policy	
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No		Kotnikova 5	PO Box
Post Code		1000	Town/City Ljubljana
Country Code		SI	Country Name Slovenia
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the ERDF and Cohesion Fund are in principle eligible for financing.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that the proposal indicates correctly the potential financial contribution from the ERDF and Cohesion Fund.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that the proposal indicates correctly the timing of potential funding from the ERDF and Cohesion Fund.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments: The OP ESI 2014-2020 that includes ERDF and Cohesion Fund has been granted by European Commission on 15/12/2014. The specific funds identified for implementation of the complementary actions of the project are being currently assigned through the specific procedures.			
Signature of the authorised person			
Name and status of the authorised person (obligatory):		BOJAN SUVOROV, MSc, DIRECTOR	
Date of the signature (obligatory):		4 th March 2016	
Authorised signature (obligatory):			




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**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

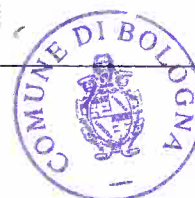
Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of AIR- LIFE-IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name		Republic of Slovenia, Ministry of the Environment and Spatial Planning	
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No		Dunajska 47	PO Box
Post Code		1000	Town/City Ljubljana
Country Code		SI	Country Name Slovenia
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the Slovenian Climate Change Fund are in principle eligible for financing.		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
		Comments:	
We confirm that the proposal indicates correctly the potential financial contribution from the Slovenian Climate Change Fund.		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
		Comments:	
We confirm that the proposal indicates correctly the timing of potential funding from the Slovenian Climate Change Fund.		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
		Comments:	
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
		Comments:	
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments: Programme for the use of Slovenian Climate Change Fund for 2015 and 2016 was approved by the Government of the Republic of Slovenia on 14/05/2015 and for 2016 further modified on 22/01/2016. The program reflects approved Detailed Programmes of Measures related to Governmental Ordinances on Air Quality Plans for Murska Sobota, Maribor, Celje, Zasavje, and Novo Mesto (all approved 05/02/2015), Kranj (approved 02/04/2015), and Ljubljana (approved 04/08/2015). Programme for the following years is still to be approved and expected to be of the order comparable to the one for 2015 and 2016 for measures related to air quality.			
Signature of the authorised person			
Name and status of the authorised person (obligatory):		Tanja Bolte, M.Sc Director General at the Environment Directorate	
Date of the signature (obligatory):		9.11.2016	
Authorised signature (obligatory):			




LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM

Title of the LIFE Integrated Project			
Title: Po Regions Engaged to Policies of Air – LIFE – IP PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Comune di Bologna		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Piazza Maggiore, 6	PO Box	
Post Code	40124	Town/City	Bologna
Country Code	IT	Country Name	Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the OP Metropolitan Cities – Bologna (Fund) are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the OP Metropolitan Cities – Bologna (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the OP Metropolitan Cities – Bologna (Fund).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
Status of the financial commitment			
Committed/confirmed <input checked="" type="checkbox"/>		To be committed/confirmed <input type="checkbox"/>	
Comments: granted on 14/07/2015			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Giacomo Capuzzimati General Director of Comune di Bologna, Intermediate Body		
Date of the signature (obligatory):	18/11/2016		
Authorised signature (obligatory):			

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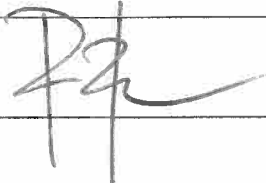

**LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY
PROFILE AND COMMITMENT FORM**

Title of the LIFE Integrated Project			
Title: PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name	Municipality of Milan		
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No	Piazza Scala 2	PO Box	
Post Code	20121	Town/City	Milan
Country Code	IT	Country Name	Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the PON METRO are in principle eligible for financing.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the potential financial contribution from the PON METRO	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that the proposal indicates correctly the timing of potential funding from the PON METRO	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments: From when we wrote the proposal, there has been a change in the areas where the cycle paths will be strengthened. The areas will be all within the Municipality territory and there won't be any intervention in the Metropolitan Area. The amount foreseen is now € 6.837.500 and there might be an extra funding for € 1.312.500, but it's still not sure.		
Status of the financial commitment			
Committed/confirmed <input type="checkbox"/>	To be committed/confirmed <input checked="" type="checkbox"/>		
Comments:			
Signature of the authorised person			
Name and status of the authorised person (obligatory):	Filippo Salucci – Director of Mobility, Environmental and Energy Policies Department		
Date of the signature (obligatory):	8/11/2016		
Authorised signature (obligatory):			

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LETTER OF INTENT FROM MANAGING/COMPETENT AUTHORITY/ENTITY

PROFILE AND COMMITMENT FORM

Title of the LIFE Integrated Project			
Title: PREPAIR			
Legal information on the MANAGING/COMPETENT AUTHORITY/ENTITY			
Legal Name		City of Torino, The Management Infrastructure and Mobility	
Legal address of the MANAGING/COMPETENT AUTHORITY/ENTITY			
Street Name and No		Piazza San Giovanni, 5	PO Box
Post Code		10123	Town/City Torino
Country Code		IT	Country Name Italy
Confirmation			
We confirm that the complementary actions identified in this proposal and intended to be financed by the PON METRO are in principle eligible for financing.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that the proposal indicates correctly the potential financial contribution from the PON METRO		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that the proposal indicates correctly the timing of potential funding from the PON METRO		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
We confirm that during the assessment of applications for funding (to be) received by our authority, we (will) take into account that they are linked to the LIFE integrated project.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	
Status of the financial commitment			
Committed/confirmed <input type="checkbox"/>		To be committed/confirmed <input checked="" type="checkbox"/>	
		Comments:	
Signature of the authorised person			
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LIFE Integrated projects 2015

Stage 2 – FULL PROPOSAL

Technical application forms

Part B – technical summary and overall context of the project

SUMMARY DESCRIPTION OF THE PROJECT (English version)**1. Overall context/background/geographical scope**

IP itself:

The Po Valley (northern Italy) represents an important non attaining zone for PM, NO₂ and O₃ thus the enforcement of the air quality limit values. This zone covers the territory of Italian northern Regions and includes several urban agglomerates such as Milan, Turin, Venice and Bologna. The area is densely populated and heavily industrialized. About 450.000 tons of NO_x, 90.000 tons of PM and 250.000 tons per year of NH₃ are emitted in the atmosphere by a wide variety of pollution sources mainly related to traffic, domestic heating, industry and energy production sectors. Another important pollution source is related to the nitrogen and ammonia cycle, coming mainly from fertilizers, breeding and farming activities.

Meteorological conditions and the transport and dispersion of pollutants are strongly influenced by the morphological characteristics of the Po Valley and the northern Adriatic Basin. The transport of pollutants is limited by the Alps, the Apennines and the Dinaric Alps. Pollutants are transported across the Adriatic sea, which influences the atmospheric circulation and the photochemical processes representing main drivers of ozone and secondary PM. Due both to the meteorological conditions and the morphologic characteristics of the Po valley, the rural background concentration of pollutants are often high, while a large part of the PM is due to secondary production, as several studies report. As a matter of fact, all Regions started implementing air quality plans over the last decade, however they were not fully effective in achieving a sufficient reduction of PM, NO₂ and O₃ concentration levels below the EU limit values. This experience demonstrates that coordinated and large scale actions should be undertaken in the Po valley area. In order to further reduce the levels of background air pollution, all the regions have clustered in the so-called Po Basin Board and planned actions to be taken with the aim of reducing emissions over the next years. The need of coordinated actions led the National and Regional governments to sign an agreement in December 2013 aimed at developing and coordinating short and long term actions for improving the air quality of the Po valley. The Po Valley Agreement identifies the main sectors where actions will be taken: biomass burning, transportation of goods and passengers, domestic heating, industry and energy, agriculture. All the regional governments involved in the agreement have their own Plans for the improvement of air quality. PREPAIR will implement the measures foreseen in the regional plans and in the Po Valley agreement at a larger scale so to strengthen the sustainability and durability of results: the geographical coverage of the IP is the Po Valley with the regions and cities that mainly influence air quality in the basin.

The IP actions will also be extended to Slovenia in order to assess and reduce pollutants transportation across the Adriatic sea. Regarding air quality, all the regions located south of the Alps face the same adverse climatic conditions, which require higher technical and financial efforts to resolve compliance problems compared to other regions. Therefore, a transnational cooperation would be beneficial, especially in the field of capacity building. This will allow to compare the problems, methodologies and results so as to identify and realize actions and tools that are effectively replicable in other EU territories. Partners from the two areas have scientific competences and expertise in the issues addressed by the IP.

Main GAPS in achieving the objectives of air quality plans in the target areas are related to the high complexity of the regions from a geographical, meteorological and socio-economic point of view, which make the resource-demanding of measures to be adopted consistent. GAPS are identifiable in the need to coordinate measures in a widespread area, to strengthen multi-level and cross-sector governance and to increase the capacity building of public and private operators. A further GAP is related to the insufficient coordination between the regions on monitoring, modeling, assessing and forecasting air quality. Common technical tools are necessary for the design of the actions and monitoring of the

environmental effects of the measures. The project PREPAIR falls under the definition of IP because it extends measures that are included in the air quality plans (AQPs) to a larger territorial scale, thus enhancing the vertical integration among different levels of governance, and realising the horizontal integration among the main sectors that have an impact on air quality. The project will also integrate a wide set of technical tools (emissions inventories, air quality models, enhanced monitoring stations, etc.) now working independently in the several regions. This goal will be realized establishing a permanent networking structure between the environmental agencies of the Po Valley and Slovenia.

Complementary actions:

All the public bodies engaged in PREPAIR are involved in the implementation of the Operational Programmes financed by ESIF 2014-2020, mainly ERDF, EAFRD and ESF. Lots of the actions foreseen in the regional air quality plans are included in the OPs. So these measures are actually complementary with the actions that will be developed through the IP. The measures identified are "win-win" for climate change and air quality, such as those on energy efficiency, sustainable mobility, reducing emissions from breeding and agriculture, maximizing synergies among the various plans and programs. The ERDF OPs organize their strategies on priorities that reflect the thematic objectives provided by Regulation (EU) No. 1303/2013 in close relation with the Europe 2020 Strategy and in coordination with the ESF and EAFRD. Relevant for the IP objectives are the measures aiming to promote low-carbon strategies, especially in urban areas as well as in the transport sector. The priority axis "smart cities, sustainable and attractive" promotes sustainable urban mobility and measures for adaptation and mitigation in towns. Specifically for metropolitan cities, such as those involved in the IP, funds will be addressed in Italy by the National Operational Programme.

2. Project objectives:

IP itself:

The IP aims at realizing actions in the territory of the Po Valley and Slovenia in order to improve air quality and comply with Dir. 2008/50/EC and the European strategy "Clean Air for Europe". The IP will also contribute to reach compliance with the National Emission Ceilings Reduction Commitments at national level. General objectives are:

1. The implementation of measures included in the AQPs and in the Po Valley Agreement;
2. Spreading the intervention area of AQPs acting on background levels in a synergic way;
3. Increasing the know-how and capacity building of public bodies and private operators;
4. Strengthening the coordination among Po Basin authorities in the field of air quality;
5. Establishing a permanent networking structure between the environmental agencies of the Po valley and of the eastern border regions and Northern Adriatic basin, as Slovenia.
6. Creating homogeneous assessment reports about the effectiveness of PREPAIR concrete actions on air quality in Po Valley and Northern Adriatic basin, replicable in other similar regions, for an effective and efficient management of air quality;
7. Measuring the effectiveness and the resource-need of measures aiming at improving air quality so as to replicate the most effective in the project area and in other EU regions;
8. Raising awareness of citizens and socio-economic actors so as to create a community well-conscious of the criticalities related to air pollution, the risks for human health and for the environment;
9. Creating a durable network among national, regional and local governments, socio-economic actors, research centers and all the other stakeholders.

Among all the measures foreseen in the Regional AQPs, the IP focuses on 4 main sectors, these are biomass burning, energy efficiency, transport and agriculture, in line with the themes addressed by the Po Basin Agreement. Specific goals are:

- promoting the use of public transport and the use of bicycle;
- informing and training citizens, local administrators, professionals and mobility managers on sustainable mobility challenges and advantages (e.g. electric mobility, eco driving, etc.);

- developing innovative processes for the optimization of freight transport;
- increasing the awareness of people and policy makers on the correct use of biomass;
- encouraging the substitution of domestic heating biomass stoves to high-efficiency and low-emission ones;
- dissemination of best-practices and increasing of know-how about the installation and maintenance of domestic heating devices, energy efficiency in civil and industrial sectors;
- adoption and transferring of know-how about the correct use of fertilizers in agriculture and promoting the spread of best technologies in agriculture and livestock so as to reduce ammonia emissions from the sector basing on common evaluation tools.

Complementary actions:

Many complementary actions are included in the OPs ERDF and EAFRD. As general framework, the ERDF aims at strengthening economic and social cohesion in the EU by correcting imbalances between regions, while EAFRD aims at contributing to the competitiveness of agriculture, the sustainable management of natural resources and climate actions and the balanced territorial development of rural areas, both under the Common Strategic Framework of Europe 2020. Many measures provided for the OPs of PREPAIR partners aim at improving air quality through the promotion of a low carbon economy, the support to renewable energy and sustainable mobility, the improvement of public transport service, the restoration of urban areas, the development of ICTs and the reduction of ammonia emissions from agriculture and livestock. At the same time, complementary measures financed by national and regional funds will be developed, such as the maintenance and improvement of regional monitoring tools, the realization of pathways and pedestrian areas, measures to improve the public transport and electric mobility facilities and services, the diffusion of BATs in the productive sectors.

3. Actions and means involved:

IP itself:

LIFE-IP PREPAIR actions are structured in 5 groups - A, C, D, E and F - and in 3 phases: the first and second of 2 years and the third one of 3 years.

Action A - PREPARATORY ACTIONS

This group of actions has the general goal to collect the input data needed for designing and implementing the air quality plans monitoring infrastructure. Actions A will deliver: a common data set of emissions data for the Po valley and Northern Adriatic basin; a data set containing a list of quantitative data about all actions/measures planned by the regional/local AQPs and by the IP itself and a common system for the periodic upgrading of the actions/measures data; a preliminary assessment of the expected pollutant levels in the target areas after the full implementation of all local AQPs. Moreover the trans-boundary effects of the Po valley AQPs on the Slovenia target area will be preliminary evaluated. Preparatory actions will realize a data flow analysis and the definition of procedures for estimate an improved emission inventory on Po basin. These evaluations will be the base for the definition of informative tools able to collect existing emission inventories and their update, analyzing the data and reducing discontinuities among regions for the main pollution sources. The preliminary evaluation will also provide the base for designing and implementing the air quality plans monitoring infrastructure (e.g. the data sharing infrastructure and the air quality models).

Action C - CONCRETE ACTIONS

Main actions connected to PREPAIR objectives will be focused on four different sectors: agriculture, biomass burning, transports and energy efficiency. A group of C actions is dedicated to implement the permanent data sharing infrastructure and the air quality model.

DATA INFRASTRUCTURE

The IP will realize a common and permanent infrastructure for data sharing, monitoring and evaluate air quality at the Po and northern Adriatic basin scale, where applicable. The tools that will be implemented on the whole target area are:

- a common system for monitoring the environmental effects of the IP and the AQPs;
- a modelling system and data processing tool for the assessment of the effects of PREPAIR and the regional air quality plans and the trans-boundary effects between Po Valley and Slovenia;
- an Integrated Assessment Model for evaluating the cost-effectiveness of the actions.

Today those tools are available for each of the regions of the Po valley and Slovenia. The actions will integrate most of the existing tools at a basin scale. The Italian and Slovenian air quality models will be extended to the whole target area. The results will be applied for improving the means applied in the two target areas. This action will be realized also with the support of the Integrated Assessment Tool RIAT+ developed by the Life+ OPERA project according to the model GAINS-Italy and implemented on the Po valley domain. This infrastructure will be managed by the IP partners also after the end of the project.

References to the AQPs: Emilia-Romagna: ch. 9.8 p. 168 "Le misure sovra regionali"; ch. 12.1 p. 184 "Gli strumenti di gestione del piano". Lombardy: ch. 1.4 p. 17 "Azioni di coordinamento sovra-regionali"; ch. 5 p. 238 "Il sistema di monitoraggio". Bolzano: annex I Disposizione 1.3c "Inventario delle emissioni" – p. 11; Disposizione 1.3d "Attività di gestione della qualità dell'aria" - p. 12. Piemonte: L.R. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, pag. 5,6). Veneto: ch. 6.2.11 "Misure a carattere scientifico, conoscitivo, informativo, educativo", Azione B2.1 [a,b,c], p. 323. Trento: AC2, p.66, "Predisposizione di un sistema di simulazione numerica per la qualità dell'aria"; Valle d'Aosta: LR 30 gennaio 2007, n. 2: Disposizioni in materia di tutela dall'inquinamento atmosferico ed approvazione del Piano regionale per il risanamento, il miglioramento ed il mantenimento della qualità dell'aria per gli anni 2007/2015. Art. 5 "Sistema informativo sulla qualità dell'aria" / Comma 3; Friuli Venezia-Giulia: Capitolo 7 "Le azioni del Piano" - - Paragrafo 7.1.1 "Misure riguardanti la comunicazione, la gestione del Piano e le attività conoscitive dello stato della qualità dell'aria", pagg. 431-432; Slovenia: Governmental Ordinances for Air Quality Plans for Ljubljana, Celje, Kranj, Novo mesto, Zasavje, Murska Sobota - Parag. 5, and for Maribor - Parag. 7: Short term measures, Governmental Ordinances for Air Quality Plans for Ljubljana, Celje, Kranj, Novo mesto, Zasavje, Murska Sobota - Parag. 7, and for Maribor - Parag. 8: Programme for analysing causes and monitoring effects of measures.

AGRICULTURE

As far as agriculture is concerned, capacity building and demonstrative actions are foreseen in order to develop a common evaluation model applicable to breeding cattle, pigs and poultry at the Po basin level, through a "whole farm" approach, aimed at enforcing the implementation of the IED Directive and other rules connected to air pollution. This tool will be based on a shared dataset, which will allow to assess the environmental sustainability of livestock and its improvement perspectives and the emissions resulting from farming. An analysis on the best techniques of usage of fertilizers will be realized and aimed at the reduction of emissions through case studies with different cropping systems, together with actions aiming at verifying (also through field-based analysis) the opportunity of replacing urea with other nitrogen fertilizers or with organic substance, with an assessment of the environmental costs and benefits. The action will also set up a system for providing assistance to farmers about the choice of the BATs with respect to the meteorological and soil conditions, in order to minimize the emissions of ammonia in the atmosphere.

References to the AQPs: Emilia-Romagna: ch. 9.5.3 p. 154 "Misure nel settore degli allevamenti zootecnici"; Ch. 9.5.4 p. 157 "Misure inerenti l'utilizzo dei fertilizzanti in campo agronomico". Lombardy : Ch. 2.4.2.4 p. 91 "Settore agricolo"; Ch. 3.5.3 page135 "Attività agricole e forestali"; Attach. 3 p. 5 and 9; Ch. 2.4.2.4 p. 91 "Settore agricolo"; Ch. 3.5.3 p.135 "Attività agricole e forestali"; Attach. 3 p. 5 and 9. Piemonte: L.R. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, pag. 5,6). Veneto: ch. 6.2.9, p. 309-318 "Interventi su agricoltura ed ammoniaca". Trento: AC10, p. 79, "Valutazione delle migliori pratiche di gestione per una riduzione delle emissioni di ammoniaca dal settore agricolo".

BIOMASS BURNING

Capacity building actions will concern the training on the correct use of biomass in the areas covered by the project including information about the impact of biomass plants on air quality and the definition of an overall and comprehensive regulatory framework. Training for a correct maintenance of biomass-burning appliances is foreseen together with actions for promoting high efficiency systems of pellets production and biomass burning, enhancement of the control of domestic biomass burning plants and their maintenance. Actions for enhancing the role of "qualified chimney sweep" for the control and maintenance of biomass domestic systems will be realized. Capacity building actions will also aim at optimizing the local supply chain management and production of biomass for energy use through the implementation of suitable management plans, the application of traceability protocols, the stakeholder engagement and the comparison of good practices.

References to AQPs: Emilia-Romagna: ch. 9.3.4.1 p. 128 "Misure per la riqualificazione energetica"; ch. 9.3.4.2 p. 130 "Regolamentazione degli impianti di combustione a biomassa per riscaldamento civile". Lombardy: Ch. 2.4.2.2 p. 88 "Settore del riscaldamento civile/residenziale"; Ch. 3.5.2.1 p.127-128 "Fonti energetiche rinnovabili"; Att. 3 page 51; Ch. 2.4.2.2 p. 88 "Settore del riscaldamento civile/residenziale"; Ch. 3.5.2.1 p.127-128 "Fonti energetiche rinnovabili"; Att. 3 p. 51; Ch. 2.4.2.2 p. 88 "Settore del riscaldamento civile/residenziale"; Ch. 3.5.2.1 p.127-128 "Fonti energetiche rinnovabili". Bolzano: Ann. I: Disposizione 3e "CasaClima" - p. 32; Disposizione 3d "Riduzione delle emissioni da impianti a biomassa" - p. 31. Piemonte: DGR 4 agosto 2009, n. 46-11968, ch.1.4 "Prescrizioni specifiche sugli impianti termici negli edifici", ch. 1.5 "Generatori di calore" (B.U 7 agosto 2009, 4° suppl. al numero 31, pag. 102); LR 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° suppl. al numero 15, pag. 5.6). Veneto: ch. 6.2.2, p. 254-265 "Utilizzazione delle Biomasse in piccoli impianti civili e combustioni incontrollate", Action A2.3bis; ch. 6.2.11 "Misure a carattere scientifico, conoscitivo, informativo, educativo", Action B1.1 "Promozione di studi scientifici volti alla definizione e quantificazione delle sorgenti del particolato atmosferico" (p. 322). Trento: Alc2, p.104, "Incentivazione alla sostituzione degli impianti a legna domestici più inquinanti con tecnologie ad alta efficienza"; Friuli Venezia-Giulia: Capitolo 7 "Le azioni del Piano" - - Paragrafo 7.1.2 "Misure riguardanti il settore dell'energia", pagg. 428-43; Slovenia: Governmental Ordinances for Air Quality Plans for Ljubljana, Celje, Kranj, Novo mesto, Zasavje, Murska Sobota - Parag. 6, and for Maribor - Parag. 9: Detailed plan of measures.

TRANSPORTS

Capacity building actions are mainly focused on the improvement of local public transports and passenger's convenience. These concern ICT tools for passengers (e.g. apps for smartphones), training of citizens and insiders (local administrators, professionals and mobility managers) on both public transport and electric mobility challenges and advantages. Another capacity building action foresees the training of public and private drivers for a more efficient and sustainable driving system aiming at the reduction of pollutants (eco-driving). Pilot/demonstrative actions concern: the conversion of the fuelling system of old engines for busses from diesel to electric; actions promoting cycling mobility with measures to tackle bicycles theft and to act more knowingly on the issue of cyclists safety, connecting the bike-stations of the main cities in the area and improving quality and usability of cycle paths; actions aimed at promoting innovative processes that can affect the optimization of freight transport.

References to AQPs: Emilia-Romagna: ch. 9.1.3.2 p. 96 "Misure per la riduzione dei flussi veicolari nei centri abitati"; ch. 9.2.3.4 p. 110 "Interventi per l'interscambio modale"; ch. 9.2.3.1 p. 108 "Rinnovo parco autobus con sostituzione dei mezzi più inquinanti con autobus a minore impatto ambientale e rinnovo materiale rotabile"; ch. 9.2.5 p. 117 "Le azioni per una gestione sostenibile delle merci"; ch. 9.2.3.6 p. 111 "Sviluppo dell'ITS e di progetti di infomobilità"; ch. 9.2.4.1 p. 114 "Promozione dell'utilizzo di veicoli elettrici"; ch. 9.2.6 p. 119 "Utilizzo ottimale dei veicoli: Eco driving". Lombardy: Ch. 2.4.2.1 p. 84 "Trasporto stradale"; Ch. 3.5.1.1 p.116-121 "Trasporto privato" e "Trasporto pubblico locale"; Attach. 3 p 106, 107; Ch. 2.4.2.1 p 84 "Trasporto stradale"; Ch. 3.5.1.1 p. 116-118 "Trasporto privato"; Attach. 3 p. 93. Bolzano: Annex I: Disposizione 2.1f "Disposizioni varie a livello comunale" - p. 18; Disposizione 4d "Incentivazione del trasporto pubblico" - p. 37.

Piemonte: L.R. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, pag. 5,6); L.R. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, pag. 5,6). Veneto: ch. 6.2.7 "Interventi sul trasporto passeggeri", Actions A.7.14 e A7.14bis, p. 297; ch. 6.2.7 "Interventi sul trasporto passeggeri", Actions A7.8,p. 296; ch. 6.2.8 "Interventi sul trasporto merci e multi modalità", Actions A8.1, A8.2, A8.4, A8.5 p. 306;ch. 6.2.7 "Interventi sul trasporto passeggeri", Action A7.10,p. 296;ch. 6.2.11 " Misure a carattere scientifico, conoscitivo, informativo, educativo", Action B5.3,p. 325. Trento: APt 5, p.117, "Promozione della mobilità ciclistica"; Friuli Venezia-Giulia: Capitolo 7 "Le azioni del Piano" - - Paragrafo 7.1.2 "Misure riguardanti il settore dei trasporti", pagg. 425-428.

ENERGY EFFICIENCY

As far as the energy sector is concerned, only capacity building actions are foreseen as investments are already enclosed in the complementary measures. Training and supporting activities in the industrial sector will be focused on the reduction of energy consumption through education programs and follow ups organized within companies; these programs will concern energy efficiency in industrial processes and buildings, and CHP and regeneration in order to promote the efficient use of energy according to EU directives IED and 2012/27/UE and to BREFs on energy efficiency. Activities involving operators aim at reaching "zero-emission-buildings" and will be realized through educational activities and new management systems of the building sector. Specifically addressed to public authorities, guidelines, educational programs and e-learning modules will be developed in order to foster the GPP (green public procurement) according to the Environmental Minimum Requirements and energy efficiency in public buildings.

References to AQPs: Emilia-Romagna: ch. 9.3.4.3 "Misure di efficientamento nel settore industriale"; ch. 9.3.4.1 p 128 "Misure per la riqualificazione energetica"; ch. 9.6 p. 162 "Acquisti verdi nelle pubbliche amministrazioni". Lombardy: Ch. 3.5.2 p.125-131 "Sorgenti stazionarie ed uso razionale dell'energia"; Att. 3 p. 28, 29. Bolzano: Allegato I: Disposizione 3e "CasaClima" - p. 32. Piemonte: L.R. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supp. al numero 15, pag. 5,6). Veneto: ch. 6.2.6 "Interventi di riconversione del patrimonio edilizio in funzione del risparmio energetico", Act. A6.9; ch. 6.2.6 "Interventi di riconversione del patrimonio edilizio in funzione del risparmio energetico", Act. A6.2; Trento: Alc 1, p.102, "Incentivazione al risparmio energetico nel settore edilizio"; Friuli Venezia-Giulia: Capitolo 7 "Le azioni del Piano" - Paragrafo 7.1.2 "Misure riguardanti il settore dell'energia", pagg. 428-431.

Action D - MONITORING AND EVALUATION

The monitoring and evaluation of the impact of the project actions will be guaranteed for the overall duration of the project. Actions D will periodically collect data about the successful implementation of the measures of the Air quality plans and of PREPAIR Actions. Furthermore, monitoring and evaluation tools created to assess the impact of the project actions will be the basis to assure a concrete long lasting effect starting from the phase 2 of the project. During actions D the technical tools set-up by the concrete actions will be applied on a regular basis for upgrading the common data bases on emissions and the air quality assessment by monitoring and modeling data. The air quality and emissions data collected on a regular basis by the data sharing infrastructure will be used for producing reports on air quality assessment on the Po Valley and Slovenia.

Action E - COMMUNICATION AND DISSEMINATION

Communication and dissemination of PREPAIR objectives have a primary importance for the implementation of the project. The communication actions are developed on 3 levels: the first level foresees the preparation of project communication tools, the second one the development of tools in support to training and capacity building activities and thematic communication campaigns, and the third one the creation of specific communication campaigns. The coordinating beneficiary, in agreement with the associated, will develop a communication plan, all the communication tools (web portal, leaflets, notice boards and roll-ups) will be realized and promotional events will be organized. The communication campaign will involve local media (such as local radios, TVs and press) and projects activities will be highlighted through the project website. Specific actions will be realized on

the IP thematic issues. During action E the reports about the air quality concentration levels, and population exposure delivered by actions D will be disseminated by the environmental agencies web sites and by the project web portal.

Action F - PROJECT MANAGEMENT AND COORDINATION

Project management will be guaranteed on a day-to-day basis by the coordinating beneficiary. It will include the daily management and the financial management of the project. A good communication system within the consortium will be assured and regular communication with the European Commission will be established. Each partner will be responsible of the actions that it coordinates thus the partner will be in charge of its management and coordination. The networking will ensure a continuous and effective exchange with other LIFE or non LIFE projects so to share results and maximize synergies.

Complementary actions:

AGRICULTURE: Complementary actions related to agriculture will be implemented within the Regional Rural Development Plans and other Regional funds. These mainly concern an efficient use of energy in agriculture and in the food sector, a support in the use and supply of renewable energy from waste and non-food products, a reduction of GHG emissions and ammonia deriving from agriculture and the adoption of agricultural methods addressed to the reduction of GHG and ammonia in pig, poultry and cattle farms. Complementary actions also aim at the development of rural areas and on interventions on agricultural vehicles.

BIOMASS BURNING: These activities include renewal of domestic wood biomass plants and control of biogas and bio-methane plants. Complementary actions related to biomass will be implemented within the Regional Rural Development Plans or other EU funds.

TRANSPORTS: There are different sources other than LIFE involved in the development of actions connected to transports, these are the Regional funds addressed by AQPs, the OP ERDF, National Operative Plans-Metropolitan Cities included. Complementary actions aim at increasing sustainable mobility in the urban areas, improving the regional and local public transports through the renewal of the public vehicles fleet. Measures of traffic restriction to the high emission vehicles are also foreseen.

ENERGY EFFICIENCY: Regional funds addressed by AQPs, OP ERDF are the means other than LIFE connected to the energy sector. These measures concern energy efficiency in the productive sector, energy requalification of civil buildings, renewal of heating plants and energy requalification of public buildings.

4. Expected results (main outputs and achievements, qualitative and quantitative):

Linked to Actions of LIFE IP (short and long term):

Action A - PREPARATORY ACTIONS

The actions will deliver basic data sets, technical specifications for software development and assessment, some preliminary reports and a software tool. Main outputs are: a data set containing a list of actions and measures for the Po Valley AQ plans with indicators and a data set of emissions for the Po Valley in the reference year. Such data will provide the information for a preliminary assessment of the AQ plans impact on air quality and for preparing the informative platform for collecting the data for the accountability of measures and designing the data sharing infrastructure. A protocol for realizing experimental campaigns to observe tracers of atmospheric processes not monitored by fixed stations will also be delivered. Actions A will realize a preliminary assessment of the expected pollutant levels in the target areas after the full implementation of all local AQPs and the estimation of trans-boundary effects of the AQPs between Po Valley and Slovenia. Such preliminary assessment will be improved and updated by actions D during the phase 2 and 3.

Action C - CONCRETE ACTIONS

DATA SHARING INFRASTRUCTURE: A permanent infrastructure for sharing air quality and emissions data and air quality models for the evaluation process will be realized. The common database will contain both raw (i.e. observed) and processed (i.e. modelled) air quality data. The database will be updated in near real time, and it will be accessible by

means of a web interface. One or more air quality models (including post processing tools for air quality and population exposure assessment) and an integrated assessment model (RIAT+) will be implemented.

AGRICULTURE: At least one guidelines for the usage of fertilizers with a high content of urea based on field analysis; at least one tool for the adoption of the best available technologies applicable to livestock. Approximately, using BATs for urea-based fertilizers could lead to a reduction of 18% of ammonia emissions, while through BATs in farms it is possible to reduce up to 40% of emissions from pigs breeding.

BIOMASS BURNING: Training initiatives for the correct maintenance of biomass heating plants; a research on woody biomass consumption in order to improve the logistics of its supply in northern Italy. With these actions it can be supposed a replacement of about 10% of the less efficient plants with high efficiency ones and it can be estimated a reduction of about 5% of emissions from domestic biomass combustion. The correct maintenance of plants could increase energy efficiency and reduce emissions of about 7%.

TRANSPORTS: Networking the bike-stations of the main cities of the Po Basin and development of bicycles infrastructures and of training of public officers and advisors aims at raising the awareness and provide technical information to the local authorities to ensure that their plans take into account, in an integrated way, all the type of sustainable transports existing or planned in a given territory; at least one demonstration project aiming at improved quality and usability of the cycle paths; at least one pilot initiative on public transports aimed at the conversion to electric engine; promote electric mobility through training activities for public transport companies and private drivers; at least three demonstrative actions aimed at improving the short-range freight transport; at least one training course for each territory involved aimed at promoting sustainable driving; a common app to promote public transports at the Po basin level. As far as expected results are concerned, given that nearly half of freight trips happen with empty loads, the optimisation of loadings and paths could lead to a decrease of driven vehicle kilometres with duty vehicles of 15%. Benefits from ITS technology application have been evaluated through experiences in EU and USA in a reduction of pollutants emissions about of 10%.

ENERGY EFFICIENCY: at least one training initiative for each territory involved on the efficient use of energy in the industrial systems; at least one initiative addressed at operators at the basin level on energy saving in the civil sector; operative tools and initiatives for increasing capacity building in the local administrations on GPP and energy efficiency in public buildings. In general a reduction of 3-5% of thermal consumptions would correspond to an equal percent reduction of emissions in industrial sector. The effect on emissions reduction of the rise of knowledge and skills of the designers has been estimated in a decreasing of at least 1% from domestic heating.

Action D - MONITORING AND EVALUATION

Main outputs will be: Reports and the related numerical datasets on the account of measures and upgraded emissions inventories. Reports and related dataset on the biomass burning in the Po valley. Reports and related dataset on the traffic fluxes in the Po valley. Annual assessment reports and related datasets on the air quality and population exposure in the Po valley and Northern Adriatic basin. Periodic reports on air quality in the Po valley and Slovenia. Reports on the cost-effectiveness analysis and corrective measures (if need). Reports and related datasets on the intensive observation campaigns at selected monitoring sites in Po valley and Slovenia.

Action E and F – COMMUNICATION AND DISSEMINATION, PROJECT MANAGEMENT AND COORDINATION

In accordance to the three communication levels described above, main results will be: project communication, tools in support to activities and campaigns and specific communication campaigns. Reports on air quality assessment on the Po Valley and Slovenia will be disseminated by the environmental agencies web sites and by the project web portal. A technical and financial management will be established as to guarantee a good implementation of the project, together with a steering board which will be in charge of the supervision of the project.

Linked to complementary actions (short and long term):

For the definition of the expected results of complementary actions that refer to ERDF and EARDF, the framework valid for all regions of the Po Basin created by the National Partnership Agreement has been adopted (version submitted to the EC in July 2014). Below the specific targets of the Partnership Agreement are reported, with reference to the topics of PREPAIR. The quantification of the following targets, however, is not foreseen until 2023.

AGRICULTURE: Expected results are the reduction of greenhouse gas emissions and increase of carbon sequestration in agriculture. The following main actions are foreseen:

- solar plants will be a priority for the production of electricity and heating, and the production of energy from livestock and agricultural wastes will be subsidized (4.7);
- reduced risk of desertification (5.2): restoring, preserving and enhancing ecosystems dependent on agriculture and forestry; better management of water resources, including the management of fertilizers and pesticides. Agro-climatic-environmental and forest-environmental actions will be taken with the aim of encouraging agricultural crops and practices with a reduction of consumption and an increase of organic substance in the soil. These actions will be supported through programs of technical and economic assistance and the dissemination of information among agricultural and forestry enterprises.

BIOMASS BURNING: Expected result is the increase the sustainable exploitation of bio-energy. The agriculture, agroindustrial and forestry sectors have indeed a great potential for the production of renewable energy, which will be supported through a sustainable use of bio-energies. Energy production will be fostered by an active management of forests so as to ensure the beginning of short chains, realizing also logistic platforms and networks for the collection and reuse of agricultural and agro-industrial residuals. At this purpose the use of forestry biomass for the production of heating and energy will be subsidized (4.5). In order to contribute to halting the loss of terrestrial and marine biodiversity, also linked to the rural landscape and maintaining and restoring ecosystem services (6.5) the following actions will be pursued: restoring, preserving and enhancing ecosystems dependent on agriculture and forests to safeguard restoration and improvement of biodiversity. Actions will aim at reducing habitats fragmentation and maintaining or restoring green infrastructures according to the tools of regional planning (Natura 2000 network, ecologic networks, etc.).

TRANSPORTS: the expected results will concern the increase of sustainable mobility in urban areas through the strengthening of sustainable collective mobility services which will be inserted in planning tools aiming at discouraging the use of individual means of transport (4.6) and the integration of transport and improvement of multi-modal connections with major urban nodes, production and logistics and the core network, global and local (7.3).

ENERGY EFFICIENCY: The main expected results are:

- the decrease in annual consumption of primary energy in public buildings (4.1) - Energy efficiency will be reached through the integration of renewable sources of electric and thermal energy and will be applied also to public illumination;
- the reduction of energy consumption and emissions in businesses and integration of renewables, especially for agricultural and agro-food businesses, where interventions will aim at energy saving (4.2).

Complementary actions included in AQPs aim to the following main results: increase of cycling paths and pedestrian areas, renewal of public transport fleets with more sustainable vehicles, regulation of circulation of high emitting vehicles in urban areas, decrease of emissions from biomass burning through prohibition of low efficiency systems and regulations of control devices, renewal of public lightening devices towards more efficient systems, maintenance of air quality monitoring networks, reduction of emissions from industries.

The possibility to quantify the expected reduction of emissions achievable through the implementation of the complementary actions will be evaluated during the preparatory

actions A1, A2 and A3 on the basis of the method applied for the project and air quality plans actions.

Within the possible output indicators to be used as input for updating the Air Quality Plans and for reallocating the funds of the next European programming, we identify the followings:

ERDF - PM10 emissions and NOx emissions savings, reduction of GHG emissions, number of buildings that achieved an improvement on energy certification, bike paths extension, number of low emissions/electric vehicles.

EARDF - Agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions (ha).

5. Expected contribution of the project to the implementation of the target plan/strategy

LIFE IP:

The measures identified in the IP will allow the implementation of some of the actions included in the Regional AQPs in a coordinate way, so to achieve a multiplier effect on the air quality improvement in the interested areas. The contribute will consist in demonstrative actions and in the improvement of capacity building that will be disseminated all over the territories of beneficiaries and in the development of studies and tools that will increase actions efficiency and will be used homogeneously. Monitoring and air quality evaluation will be led on a basin scale and will identify the most effective actions among those contained in Plans giving a wide area feedback to local policies. A coordinated communication and information will focus the public attention on the main themes impacting on air quality, orienting people attitude and politics awareness towards the same objectives in a very wide area. These measures will increase the efficiency of the Po Valley Agreement, for they will act as support to its fulfilment. The partners of the IP are the subjects in charge of air quality planning, management and monitoring, as regional governments, municipalities and environmental agencies. In this way the contribution of the IP on AQPs will be effective and direct. The involvement of the Italian Ministry for Environment ensures the direct connection with the Po Basin Agreement. The involvement of all the relevant stakeholders will lead to the actual implementation of Air Quality Plans.

Complementary actions:

The IP actions will integrate the OP ERDF and EARDF measures, focusing on actions similar to those financed by the Regional programmes on common targets for specific sectors and on actions different but complementary to those implemented by the OPs.

6. Main stakeholders involved in the project:

The Italian Ministry for Environment, the Ministry for Transports, the Ministry for Agriculture, the Ministry for Economic Development and the Ministry for Public Health and the Slovenian respective Ministries will be involved in the project given their institutional role. Local authorities will be involved as main stakeholders due to their role in the implementation of AQPs. Other Regions and Municipalities will be involved, as the members of AIR, ENCORE and EUROCITIES networks. Specific stakeholders will be involved referring to the thematic pillars of the IP:

MONITORING AND EVALUATION: Main research institutions in Italy and Slovenia will be involved as end users of the services. The members of the RIAT+ OPERA consortium will also be involved for implementing the tool. APPA Bolzano will be involved as "active" stakeholder, providing data on emissions, level of pollutants and measures.

AGRICULTURE: Fertilizers producers will be directly involved for assisting farmers in the usage methods; farmers and their representatives; Research Centers and Universities will be directly involved especially in the development of the evaluation model.

BIOMASS BURNING: ANFUS (The Association of Chimney Sweeps), AIEL (Association of Agroforestry Energy), Craftsmen Association, Local Authorities and private operators.

TRANSPORTS: Local Public Transport Agencies, Logistic operators, operators in cycle mobility field (such ONG or no-profit organizations), Suppliers and installers of electric

conversion systems, Regulatory, safety and homologation bodies, Academic and research institutes, Environment and technology parks, ICT companies, driving schools and environmental associations, citizens, schools, teachers and students.

ENERGY EFFICIENCY: Local authorities, operators and craftsmen association, Energy Managers of Public and Private bodies, experts and researchers.

7. Long term sustainability (including capacity building)

Partners will ensure the long last effects of the project after the end of financing thanks to the creation of a network where sharing all the experiences and knowledge aimed at promoting synergies. Thanks to PREPAIR the lack of adequate instruments and of the coordination of the existing tools will be overcome and partners will be able to continue implementing and enhancing project objectives by the insertion of PREPAIR results in their own local and regional governance policies. PREPAIR will allow to create useful tools for air quality management that could be used after the project by the partners and all potential air quality managers in Europe as a “toolbox”. A specific action will be realized in order to ensure the maintenance of the data sharing and monitoring common infrastructure realized by PREPAIR. Many actions of the IP aim at increasing the capacity building of the subjects relevant for air quality, policy makers and experts working for public administrations, engineers and professionals, industrial managers, farmers. Improving awareness of civil society and socio-economic actors is a focal goal of PREPAIR and it will lead to a more conscious community about air themes and so creating the conditions for the project durability. This will assure a concrete long lasting effect in the interested areas, and partners aim to widen it to the other territories that have not taken part in the IP. The sustainability of PREPAIR will be also ensured by the participation of partners in associations and networks, such as AIR, EUROCITIES and ENCORE networks.

8. a) Is your project significantly climate related? Yes No

b) Is your project significantly biodiversity-related? Yes No

If you consider your project to be significantly climate or biodiversity-related (you marked 'yes'), please explain why:

The actions proposed have a direct impact on the quality of the environment, they condition the industrial and agricultural processes affecting also human habits thus resulting in a strong impact on human health and quality of life. Many actions included in PREPAIR are synergic to strategies for reducing GHG emissions, so that IP project has significant and direct effects on climate change. As air quality is affecting not only human health but also ecosystems, the IP will also have positive effects on biodiversity.

GENERAL DESCRIPTION OF THE AREA(s) TARGETED BY THE PROJECT

Name(s)/Definition of the project area(s):

Italian northern area of Po Basin (Emilia-Romagna, Lombardy, Piedmont, Veneto, Friuli Venezia Giulia, Valle d'Aosta regions, Province of Trento) and Slovenia.

Comments:

General description

The IP will be implemented in the whole area covered by the Air Quality Plans of the Regions and Provinces of the Po Basin.

The Po Basin has a population of about 25 millions (40% of the national population), and it also produces a significant share of Italian wealth (more than 50% of the Italian GDP), with a production based mainly on small and medium-sized enterprises. The population density is over 1500 inhabitants per km² in large areas of the Po Basin, but it can be as high as 3600 inhabitants per km² in the biggest cities.

The IP will also support some of the elements included in the 7 Air Quality Plans, which were adopted by the Government of Slovenia to reduce PM10 levels in over polluted areas.

Meteorological conditions

The Po Basin is surrounded by mountains on three sides, and it often experiences meteorological conditions which can be very adverse for the dispersion of pollutants. The average wind speed is one of the lowest in Europe (frequently less than 2 m/s in the plain), therefore winter mixing height is also often very low. Temperature inversions are very frequent in the winter, and they can occur both on the surface and in the boundary layer. Finally, large-scale anti-cyclonic systems are common in winter and summer, leading to severe episodes of air pollution, with high concentrations of ozone in the summer and PM10 in the winter.

Slovenia is located SE of the Alps, and is therefore sheltered from westerly and northerly synoptic winds. Since those synoptic wind directions are prevailing, Slovenia is often in the lee of the mountain ridges. Similar as the Po Valley, the climate in Slovenia is characterised by high percentage low wind speed, stable atmospheric conditions as well as frequent and intense temperature inversion, during the autumn and winter in particular.

Emissions

In the Po Basin about 450.000 tons per years of NO_x, 90.000 tons per year of PM and 250.000 tons per year of NH₃ are emitted in the atmosphere by a wide variety of pollution sources, mainly related to traffic, domestic heating, industry, energy production and agriculture sectors. Almost 60-65% of the particulate substance observed in the Po Valley is of secondary origin: it is produced by chemical reactions occurring in the atmosphere and transforming "precursor" gases (mainly NO_x, VOC and ammonia) into aerosols. The remaining part of PM10 ("primary" component) is linked with woods combustion, motor vehicle fuel and "non exhaust" traffic emissions (brake and tire wear, abrasion roads), each providing roughly equal contributions. The consumption of diesel fuel for trucking is responsible of a large part (63%) of NO_x emissions, while solvents used in industrial and non-industrial activities are the main source of volatile organic compounds. Ammonia is mainly emitted by agriculture activities which involve breeding, farming and the use of fertilizers. Nevertheless, it has to be noted that the per-capita and per-GDP-unit emissions of SO₂, NO_x, CO, PM10, PM2.5 and CO₂-equivalents in the Po Basin are lower than both the EU-15 and EU-27 average figures, and similar to the figures provided by the most advanced Member States.

The combustion of wood in the small residential heating appliances accounts for the two thirds of the total PM10 emissions in Slovenia. Those emissions are released during the

cold part of the year, when there are often unfavorable meteorological conditions for the dispersion of pollutants. The combined influence of local emissions and supra-regional background pollution lead to exceedances of the PM10 daily limit value; this happens almost exclusively during autumn, winter and early spring months.

Air quality

Most of the Po Valley inhabitants are exposed to pollution levels exceeding the EU and WHO limit values. The most critical situations are related to the exceedance of the PM10 daily limit for the protection of human health. The highest number of exceedances is usually recorded in traffic stations, but also urban background concentrations are very often higher than the legislative threshold. During summer, ozone levels systematically exceed the target values for health protection in most of the Po Basin; particularly high ozone concentrations were observed in the hotter years, such as 2003 and 2012 (respectively the first and the second hottest summers on record). Concentrations of NO₂ have a high spatial variability, and the highest concentrations are observed close to main roads, industrial and urban agglomerates. Some exceedances of the annual limit value were recorded in traffic stations during 2010 and 2015, while background concentrations are usually below the limit value. The spatial distribution of PM_{2.5} concentrations is rather uniform, due to the prevailing secondary origin of this pollutant; roadside concentrations can nevertheless be significantly higher, sporadically exceeding the limit value that has been enforced in 2015. Although local emission peaks exist, a significant part of PM and ozone pollution in the Po Basin is due to regional background concentration: levels of these pollutants often appear to be homogeneously spread over the whole territory, with high concentrations observed even at rural background monitoring stations. The transport of pollutants between different areas of the Po Basin seems therefore to play an important role, together with meteorological conditions. This is confirmed by the analysis of PM composition, and by the good temporal correlation between values observed at distant monitoring stations.

Like in the Po Basin, also in Slovenia the main air quality issue is PM10. So called “non-attainment areas” were defined. Statutory provisions for emission reduction in those areas were defined by the 7 Air Quality Plans. The PM “non-attainment areas” comprise 1.178 km² and include the largest cities and about one quarter of the Slovenian population.

It should finally be noted that background concentrations of pollutants, linked with supra-regional transport of pollutants in the South Eastern Alpine forelands, are also important in determining the observed exceedances.

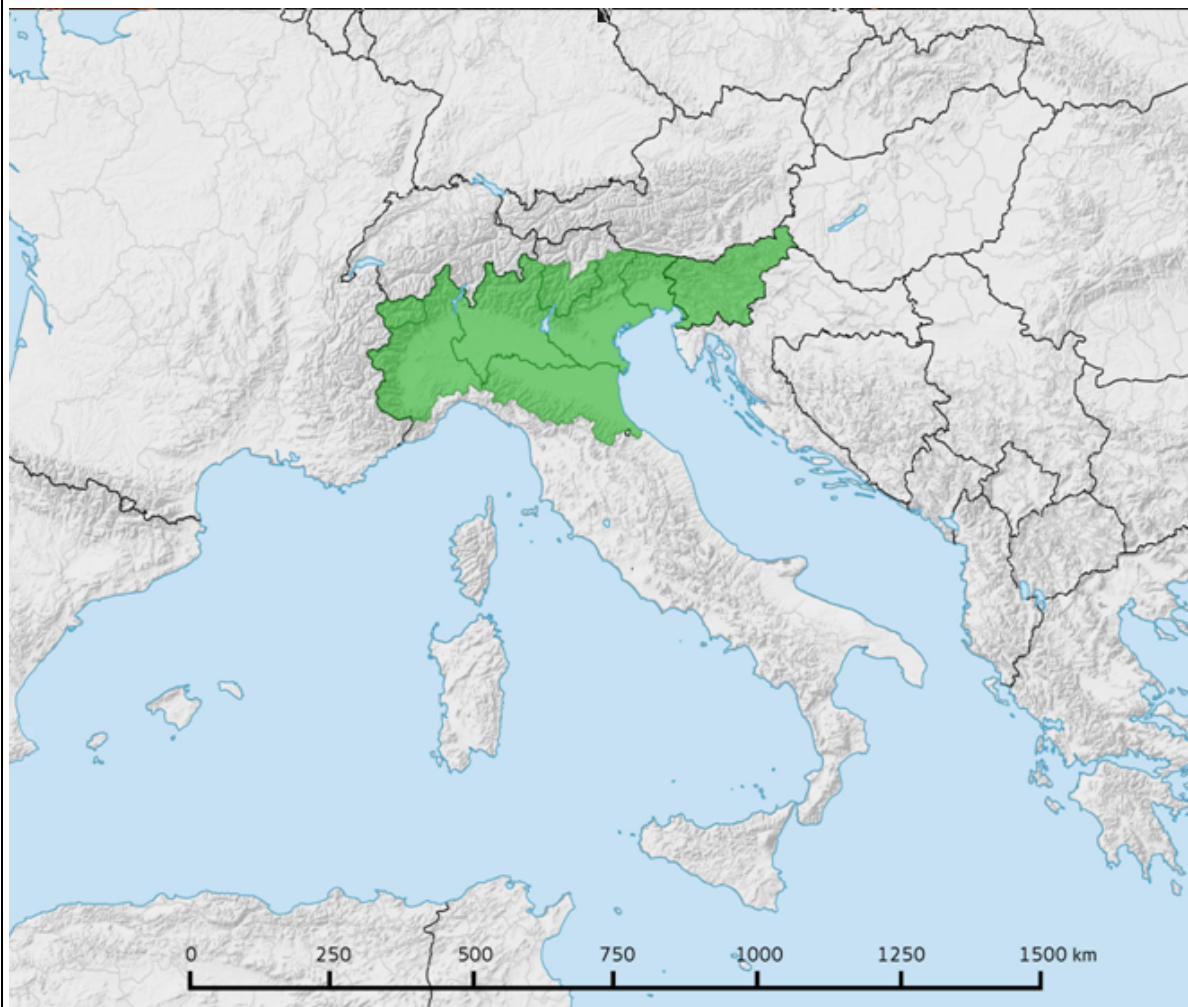
In the last decade, efforts to apply EU Directives and implement plans to improve air quality produced a significant reduction of observed pollution levels in the Po Basin. Also in Slovenia air quality has improved due to the implementation of abatement measures. Due to the unfavourable meteorological conditions and topography, both in Po Basin and Slovenia, levels of PM10 and ozone are still above the EU limit and target values; nonetheless, levels of primary pollutants such as CO, SO₂ have been significantly reduced and are now well under the LVs.

Besides the successful implementation of various emission reduction measures, Slovenia and the Po Basin still need to further increase their efforts towards emission reduction in key economic activities (biomass combustion, road transport and agriculture), in order to be able to fully comply with the air quality targets in future years.

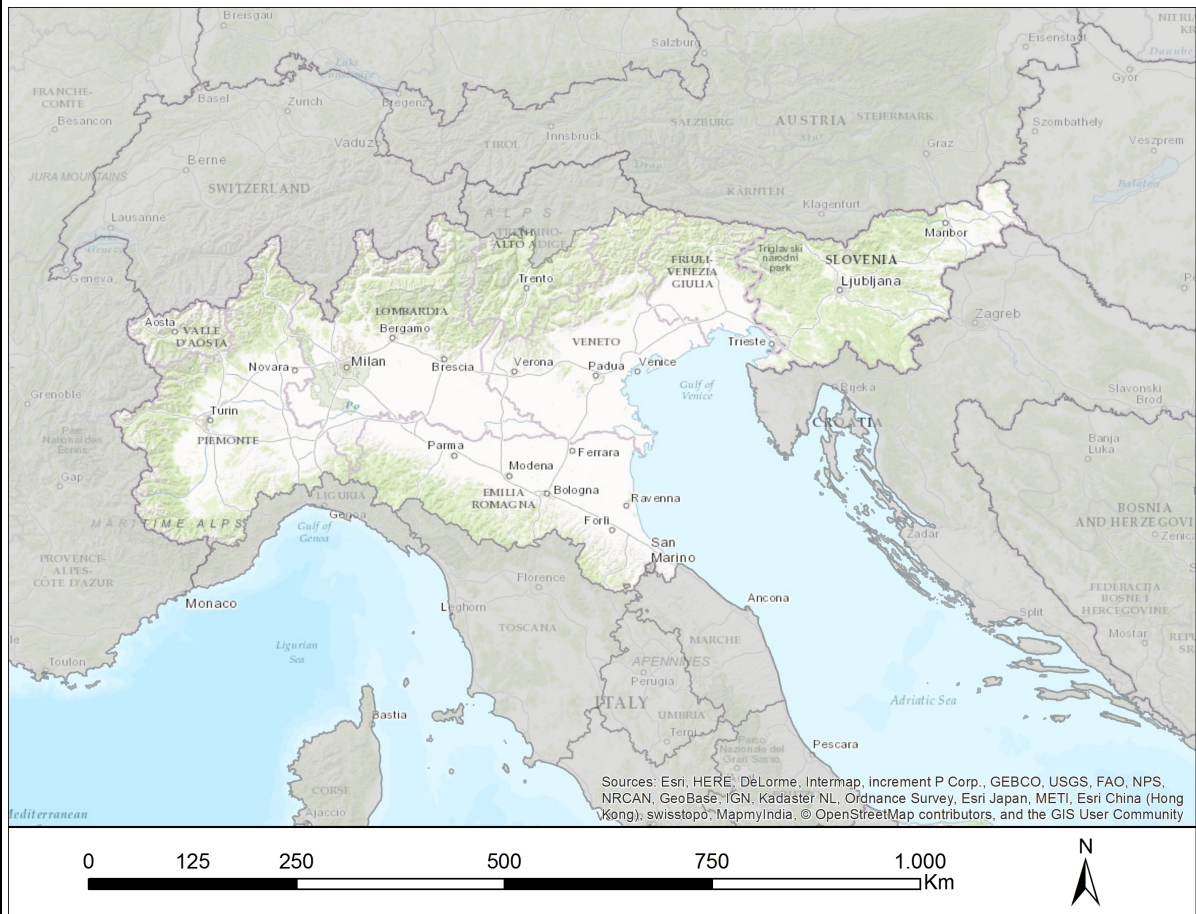
MAPS OF THE GENERAL LOCATION OF THE PROJECT AREAS

Please indicate the scale of the maps

GENERAL OVERVIEW OF LOCATION(S) IN THE COUNTRY



GENERAL OVERVIEW OF LOCATION(S) IN THE REGION



All maps must be provided in an A4 or A3 format

DESCRIPTION OF THE STRATEGY FOR THE IMPLEMENTATION OF THE OVERALL PLAN

The IP aims at implementing the Air Quality Plans (AQPs) of 8 European Regions, 7 Italian regions and autonomous provinces of the Po Basin and Slovenia. All the AQPs foresee a set of measures to be realized in the timeframe of the IP and beyond in order to reach the full compliance with directive 2008/50/CE.

In the Po area all the AQPs emphasise the necessity to apply common measures at the basin scale. The past experience has in fact shown that coordinated and large scale actions should be undertaken on the large Po valley area. A comprehensive policy, acting on a large scale and on several sources of pollutant precursors of PM and O₃, is essential in order to further reduce pollution levels of PM and NO₂. The necessity of coordinated actions led the National and Regional governments to sign an agreement in December 2013 aimed at developing short and long term actions to improve air quality in the Po valley. Due to the exceedances happened in the last winter season in Italy, as well as in Europe, for the unfavourable meteorological conditions, in December 2015 a Memorandum of Understanding has been signed among the National Government, the Regional Governments and the representatives of Municipalities (ANCI), which contains measures to adopt in case of exceedances and structural measures financed by national funds related to electric mobility, safe home-school and home-job movements and public transport.

Some of the IP actions will be implemented also in Slovenia, given the similarities of the two basins. Regarding air quality, all regions south of the Alps face the same adverse climatic conditions, which require higher technical and financial efforts to resolve compliance problems as compared to other regions. Therefore, a transnational cooperation will be beneficial, especially in the field of capacity building. This will allow to compare problems, methodologies, and results so to identify and realize actions and tools that are effectively replicable in other European territories. Partners from the two areas are characterized by a high-level of scientific competences and great expertise on the issues addressed by the IP.

The main GAPS in achieving the objectives of air quality plans in the target areas are related to the high complexity of the regions, from a geographical, meteorological and socio-economic point of view, which consequently make the resource-demanding of measures to be adopted consistent. As a consequence GAPS are identifiable in the need to coordinate measures in a widespread area, to strengthen multi-level and cross-sector governance and to increase the capacity building of public and private operators. A further gap is related to the insufficient coordination between the regions on monitoring, modeling, assessing and forecasting air quality and assessing the impact on air quality of the emission reduction actions. Common technical tools are necessary for the design of the actions and monitoring of the environmental effects of the measures.

The IP will realize measures foreseen in the AQPs and in the Po Valley agreement, implementing them at a larger scale so to strengthen the sustainability and durability of results. Thanks to the IP a web based platform with all the actions implemented by the Regions in their AQPs and in the IP will be realized and constantly updated during the project implementation. It will contain also the measures adopted by the Regions in synergy to the Po Valley Agreement and thus it will be a tool for an effective monitoring of actions. Due to this "basin approach", the measures adopted by the Regions in their own AQPs will lead to a comprehensive framework and strategy necessary to improve air quality in the whole area.

Complementary actions are foreseen in the OPs of the beneficiary regions and provinces in the fields of agriculture, energy, transport, biomass.

Short term (at least first 2.5 years):

In the short term, preparatory actions will be realized during the phase 1 of the project in order to collect the data necessary for a preliminary assessment of the expected pollutant

levels in the target areas after the full implementation of all local AQPs. Such preliminary assessment will be improved and updated within actions D during the phase 2 and phase 3 of the project. The preparatory actions will also provide the information needed for the design of the technical tools that will be realized by actions C1, C2, and C3. Such tools, including the building of a permanent data sharing infrastructure, the tool for improved, emission inventory and the implementation of the integrated assessment model RIAT+ for the integrated assessment, will be extensively applied during the monitoring activities (actions D1, D2, D5). Moreover a protocol for realizing experimental activities to observe tracers of atmospheric processes not monitored by existing fixed stations will be prepared. The monitoring by a network of special stations of the environmental effects of the plan will provide periodic report about the source apportionment of PM starting from the phase 2 of the project.

At the same time, concrete actions will be launched. In the short term main activities will concern the common definition of standards, contents and procedures for the actions to be realized in a coordinated and comparable way in the project area.

The first actions that will be developed are the ones that will create tools or models to be used for the implementation and evaluation of complementary measures, e.g. the common evaluation tool for reducing emissions in farms, the training initiatives aiming at increasing capacity building of public and private operators in energy requalification or the support to local authorities in accessing to public funds.

Other actions will be realized in more specific areas as demonstrative or pilot actions, although the results are interesting for all the beneficiaries in order to make them implement or further update their AQPs, like the demonstrative action on electric conversion technology.

Monitoring and communication tools will be also developed in the early project phase and will continue for the whole project duration.

Coordination structures will be established at the beginning of the IP, such as the Steering Committee, working thematic groups, stakeholder boards, Po Valley board inside the IP.

Long term (beyond 2.5 years):

In the long term, the IP will focus on the full implementation of concrete actions. Many of them concern the implementation of actions included in AQPs to all the project area through a common and coordinated approach. These actions are for examples training initiatives on energy efficiency or sustainable mobility. Also actions to promote cycling mobility are included in this category, as the management and interconnection of bike stations that will be realized in the main cities of the Po Basin through complementary actions.

Other actions are related to the creation of common tools to be used in all the project area, like the study on logistic of woody biomass or ICT tools for the Po Basin. These actions will be implemented in parallel to the related complementary actions so as to increase the effects of both in a synergic way.

In the long term, the monitoring procedure will be fully implemented so as to have the measure of the effects of the IP on air quality in the project areas. As the end of the IP is quite aligned with the conclusion of OPs, at this stage the effective implementation of both measures will be realized and quantified.

The monitoring activities will deliver periodic reports with the implementation rate of concrete actions (action D1), the emissions of pollutants (action D2) and the state of the air quality (action D5). These reports will be used, at the beginning of the phase 3, for checking the effectiveness of concrete actions realized by PREPAIR and AQs plans on air quality in the Po Valley and Slovenia. The results will be evaluated by the steering committee (action F3) and the Po Basin Board which will decide about the need of further and/or corrective actions. These actions can be assessed by the support of the Integrated assessment model RIAT+ implemented on the target area.

The final check will be realized at the end of the project by the steering committee (action F3) that will produce a final report and a long term action plan in order to ensure the sustainability of the project's results after the end of PREPAIR.

In the long term, also communication activities will become more consistent and intensive. In this phase thematic conferences and workshops will be realized in order to give a wide diffusion of the project results and to fully realize the involvement of stakeholders.

During the last phase of the project, agreements will be signed by the beneficiaries to ensure the duration of the cooperation beyond the end of the IP.

EU ADDED VALUE OF THE PROJECT AND ITS ACTIONS

Extent and quality of the contribution to the objectives of LIFE

The Italian northern Po Basin is one of the most critical areas in Europe for air quality, as European institutions know very well. The Slovenian territory presents similar peculiarities and criticalities. LIFE-IP PREPAIR will act on these areas contributing to the implementation of the Air Quality Plans adopted by the involved Regions with concrete and measurable results. In this way the IP will directly contribute to the objectives of LIFE programme with an improved environment in Po Basin and Slovenia.

The IP concerns a very wide area, covering the majority of northern Italian sectors and so the contribution to LIFE objectives is relevant due to the very high number of institutions, professionals, workers and citizens involved. The added value of the IP contribution is even higher when considering that it will act as a multiplier effect for the interested areas and outside. From one side, the IP will implement measures in wide and critical areas of Europe contributing to the effective improvement of air quality, and on the other side actions will be implemented and tested in the project area and will then be widely disseminated in other European regions and countries. This will happen also thanks to the networks where beneficiaries are already involved and to the participation of national institutions as key stakeholders.

Extent and quality of the mobilisation of other funds

LIFE-IP PREPAIR complementary actions amount at more than 850 Million Euro, which is a very large sum comparing to the project budget which is less than 17 Million Euro. As a matter of fact, the relation between IP itself measures and complementary measures is of about 1:50 which is a relevant result. Main funds that are mobilized by the IP, a part from LIFE fund, are ERDF, EARDF, national and regional funds. Each territory involved in the project will mobilize at least a fund for implementing complementary measures. The quality of complementarity is not limited to the big amount of other funds. IP will realize actions that are complementary and synergic to the ones realized with other funds. These have been defined by the IP regions through an exchange with relevant sectors in charge of other funds and solutions have been identified to maximise the synergic effect of both kind of actions.

For example, the IP actions in the Agriculture field will lead to the realization of an evaluation model and other tools that can be used by farmers in the implementation of measures financed by Rural Development Plans. The actions realized in the field of Energy aim at increase the competences and ability both of private and public operators to accede and implement the measures financed by the Regional Development Fund. The actions related to cycling mobility are synergic to the measures included in the National Operational Programme for Cities (PON "Aree Metropolitane") where, for example, infrastructures are realized, while the IP implements communication and training activities in the same field, or realizes a survey aiming at better planning the infrastructures.

The implementation of the complementary actions will be monitored during the IP through a continuous and effective exchange of data, information and results with the Managing Authorities and with the Environmental Authorities that are involved in the monitoring of the Regional Operational Programmes. A common format for collecting the data by the beneficiaries involved will be elaborated at the beginning of the IP, and it will be shared among the beneficiaries in the Steering Committee. A document including the details of complementary activities implemented will be sent together with the foreseen project reports.

Quality of multi-purpose mechanism, synergies and integration

The IP has been designed considering air quality objectives in synergy with other relevant environmental strategies. Only to mention the most relevant, the IP will support the implementation of Directive "IED" 2010/75/EU, with particular reference to BREFs adopted for "intensive rearing of pigs and poultry" and energy efficiency. The IP actions related to agriculture will also contribute to support the implementation of the UNECE code for the sector. The IP will also furnish a direct effect on the reduction of greenhouse gases so as acting in synergy with European and national strategies on climate change, that can be in particular be found in the IP actions developed under the themes "Energy" and "Transports". For the same reasons the IP will contribute to the implementation of the Directive 2012/27/EU. Furthermore, IP actions focusing on urban areas will support the implementation of local Sustainable Urban Mobility Plans and, as collateral effects, they will have positive effects in reducing noise in urban areas.

Synergic effects and the multi-purpose mechanism have been considered since the beginning of the IP idea, as the associated Regions/Provinces have defined actions and means in cooperation with people in charge of relevant sector policies and funding sources, like agriculture, energy, industry, transport. The cross-sector coordination will be ensured by the IP beneficiaries all over the project activities.

To this aim, each Region/Province will ensure the coordination with the sectors in charge of other relevant policies through the institution of a project cross-sector working group. A common matrix will be realized at the beginning of the project in order to identify the relevant sectors that have to be considered for each project action.

Replicability and transferability

In the long term, the actions proposed will contribute to the improvement of air quality on a larger scale and other European regions with similar geographical and environmental characteristics will be able to replicate them on their territories. The fact that more regions are involved in the project implementation is a key point for evaluating the replicability of project actions, that is even more relevant when considering that two countries, Italy and Slovenia, are involved. The IP actions have been selected by the beneficiaries also for their replicability and transferability as a necessary condition in the decision process. As matter of fact all the actions are replicable and transferable in European regions. The actions are in fact focusing on themes that are nowadays at the core of the discussion in European territory when speaking about air quality. Agriculture, biomass, transport and energy efficiency are priority for all European regions and countries. The IP beneficiary regions and province are all part of important networks, e.g. AIR and ENCORE, where the problems and possible solutions for managing air quality have been discussed and compared during several meetings and transnational conferences.

Transnational, green procurement, uptake of research results:

LIFE-IP PREPAIR has a transnational approach as it involves Italian and Slovenian beneficiaries. The geographic and meteorological conditions, the main sources of pollutants and the sectors of the most effective emission abatement measures correspond to each other in Po Valley and Slovenia. Both regions have a long tradition in preparing emission abatement strategies, implementing measures, and assessment of their outcomes. The crucial issue for both regions is the poor mixing of the air masses due to basin locations in the lee of the Alps and the high level of background pollution. Only due to this disadvantaged meteorological conditions, both regions have to make enormous additional efforts for a substantial air quality improvement as compared to other European regions.

Therefore, implementing the most efficient measures at the given resources will be the key to successfully lower the pollutant levels in both areas over the long term. Some of the partners from the Po Valley have already implemented a regional integrated assessment modelling tool and chemical transport models that helps policy makers and experts selecting optimal emission reduction measures for improving air quality at the minimum cost. On the other hand, Slovenia has expertise in the field of pollutant transport and

dilution models, and multi-scale model approaches for resolving background concentrations. The generation of a comparable data base and the exchange of experiences in the validation and assessment of emission inventories, AQ models and input data have an important role in PREPAIR. On the basis of such an experience exchange, both regions will be able to further improve the quality of their assessment procedures and to learn about the reproducibility of the applied assessment procedures. Due to the fact that Slovenia is at the east side of the Po Basin, the transnational cooperation will allow to evaluate and quantify cross-border air pollution, as well as cross-border traffic flows and biomass logistics, through the direct involvement of ARSO in the relative actions.

Regarding the implementation actions, there is a broad overlap of targeted areas. Both Slovenia and the Po Valley have to develop practicable and sustainable solutions for the reduction of PM10 emissions. The circumstances are similar so that the experiences from each project partner can be more or less directly applied to other regions. Therefore, it is expected that the outcome of the single actions of all partners will result in fruitful mutual process leading to the upgrade of the regional AQPs. For Slovenia, the participation in the PREPAIR project is a great opportunity for an intensive exchange of knowledge, experience and best practices with a region that is very similar with regard to the circumstances leading to excessive air pollution. The requested co-funding by LIFE will help to fully implement the measures of the Slovenian AQPs and its enhanced evaluation with respect to air quality, socioeconomic factors and long-term sustainability.

Green procurement is a key point of the IP. Not only it has been considered a cross-sector approach, but beneficiaries will also be involved in an action that is specifically dedicated to implement and disseminate Green Public Procurement on the project area.

Results will be used for the implementation of the actions, like the results of the project "Supersito" (www.supersito-er.it). In order to better understand the impact of air quality on environment and health, the Emilia-Romagna Region and its Agency for the Protection of the Environment are running this research project - called Supersito - the purpose of which is to gain further knowledge about the impact of the components of fine and ultrafine particles in the atmosphere.

BEST PRACTICE / INNOVATION / DEMONSTRATION CHARACTER OF THE PROJECT**BEST PRACTICE:**

Many of the actions implemented by the IP are best practice implementation.

These are actions already realized by one of the beneficiary and extended to the project area thanks to the IP: this is the case of the action C7 "Enhancement of the role of chimney sweeps" for the control and maintenance of biomass domestic systems" that will be implemented in the project area, or the action C14 "Training on eco-driving" that will be applied on the project area on the basis of the previous experience of the Province of Trento, or the action C17 "Support to local authorities for energy saving initiatives in public buildings and for the enhancement of GPP" where the expertise of Emilia-Romagna will be strengthened and shared in the project area. Otherwise, best practice actions will be implemented by a complementary approach: this is the case of the action C9 "Action promoting cycling mobility" where bike stations will be realized in Lombardy through the ERDF and in Emilia-Romagna these will be equipped through the IP. Other best practice actions consist in the implementation in the project areas of experiences developed in other European regions taking into account the results of other previous Life projects: this is the case for example of action C15 "Training and support services to industries aimed at improving energy efficiency" or action C8 "Analysis of the logistics of consumption and supply of woody biomass" which take advantage from a previous project developed in Murcia. Many C actions are then dedicated to the diffusion and application in the project areas of best practices through training and dissemination actions: it is the case of actions C5, C6, C13, C14, C15, C16, C17, E3, E4 and E5.

DEMONSTRATION:

Some actions of the IP have a demonstration character, as they aim at implementing methods or techniques not fully known or applied in the project areas. This is the case of action C4 "Promoting an ammonia low-emission application of fertilizers based on urea in agriculture" where through case studies the effectiveness in reducing ammonia will be tested and compared among methodologies. Also the action C11 "Rationalization of short-range freight logistics in urban and extra/peri-urban areas" has a demonstrative character because it aims at realizing an innovative approach to the freight management at the pre-industrial scale that should be further supported by regional and local bodies through regulation or financing. Finally, action C12 "Development of ICT tools for public transport users" can be considered a demonstrative action, as it aims at creating common tools at the Po Basin scale for Local Public Transport users, that is new in the interested area.

PILOT (INNOVATION):

Action C10 "Demonstrative actions on Electric conversion technology" has a pilot character, as it will develop the project of a prototype that should lead to significant improvements for air quality and that could be replicable in the project area and outside. Highly sophisticated conversion solutions, together with other supporting technologies for keeping the engine operating at its most efficient point will be established on vehicles. A variety of software including CAD design, CAE analysis and optimization tools will be used to generate the optimal design solution and to evaluate performance. Engine and transmission study require different levels of model fidelity and simulation methodologies in order to obtain structural validation of support frame for electric motor and gear reduction unit and batteries frame (for example Finite element analysis FEA, durability, multi-body dynamics, integrated system simulation and so on). Modelling requires sufficient mesh fidelity and accurate material strain rate behaviour to provide realistic responses, as components evolve in the overall design. Special solutions will be designed based on the space available. It will be made a scan of bus engine compartment (provided already without the thermal engine) in order to get the CAD data engine compartment space useful to study the electric power

train vehicle integration possibility. Moreover a customized calibration of the electric device will be prepared as a function of the road conditions and the use of the vehicle, for obtaining the maximum result.

Then it will be defined a draft prototype manufacturing strategy and it will identified legal and regulatory requirements necessary for every kind of vehicle. Because of that, the application of electric platform must be developed for every kind of bus in every new fleet. The conversion cost is valued at least 70% less than the market price of electric bus. Furthermore public transport companies could replace their old vehicles and improve environmental performance of their fleet.

EFFORTS FOR REDUCING THE PROJECT'S "CARBON FOOTPRINT"

The effects of the project in terms of carbon emissions are direct and relevant. In fact, many actions foreseen in the IP as well as complementary actions have the reduction of CO₂ and greenhouse gases as result. It is the case, for example, of actions increasing and promoting sustainable mobility, particularly the use of bicycles and public transport services, actions aiming at reducing the energy consumption in the civil and productive sector, and actions encouraging GPP. These are win-win solutions as they have positive effects for air quality as well as climate change.

The only potential conflict is related to the issue of biomass, as biomass burning is one of the measures often promoted in the strategies aiming at mitigating climate change while the effects of this practice could be critical for air quality. As matter of fact, PREPAIR objectives are not focused on reducing the consumption of biomass in the project area but aim at reducing the emissions of pollutants by the combustion of biomass through the modification of behaviours and technologies in a more sustainable practice. The IP aims, for example, to increase the use of pellet with respect to woody biomass and to evolve the obsolete burning stoves in more efficient and less emitting burning systems. In addition, PREPAIR aims at the rationalization of biomass supply chains in order to reduce the length of supplier travels and consequently the emission of pollutants. Further actions are aiming at the training of chimney sweepers and technicians.

In addition, project actions in the field of agriculture and livestock will reduce the emissions of methane and other GHG as to contributing to mitigate climate change effects. In order to avoid potential conflicts, the evaluation model produced by Action C5 will take into account the collateral effects of analyzed practices on CO₂ emissions as well as on air pollutants.

As far as management is concerned, the tool of videoconference will be used whenever possible instead of face to face meetings. Public conferences and workshops will be arranged in sites easily reachable with public means in order to reduce the use of private vehicles by the participants at the events in so reducing the emissions of GHG. Preferential criteria will be adopted in the public tenders realized to acquire the assistance and consumables necessary to the IP in order to promote sustainable supply of goods and services and reducing the emissions of CO₂. Therefore, the IP will reduce the carbon footprint in the project area and, through the diffusion of results and best practice, also in other EU territories.

STAKEHOLDERS INVOLVED IN THE PROJECT

The Italian Ministry for Environment and Land and Sea Protection, the Ministry for Transports and Infrastructures, the Ministry for Agriculture, the Ministry for Economic Development and the Ministry for Public Health and the Slovenian respectively Ministries will be involved in the project activities given their institutional role.

The Italian Ministry for Environment and Land and Sea Protection will be particularly involved in project meetings in order to evaluate the contribution of the IP to the national strategies and targets related to air quality and national emission ceilings. At the same time the Slovenian Ministry will be particularly involved in relation to the national strategies and objectives.

All local authorities (municipalities and their associations) will be involved as main stakeholders as they play a key role in the implementation of the Air Quality Plans. Many of the IP actions are specifically dedicated to increase the capacity building of public managers and civil servants through the involvement in training initiatives, workshops, working groups, the support in getting information and innovative solutions on technical/administrative/financial aspects, the creation of tools like guidelines, e-learning modules, evaluation models, etc.

Other Regions/Provinces interested in the project results will be involved as stakeholders and will be invited at the project conferences and workshops. Regions members of AIR network and ENCORE network, Municipalities members of EUROCUTIES network will be invited at the project events and will be directly involved, where appropriate, in project activities in order to collect, compare and disseminate good practices.

Specific stakeholders will be involved referring to the thematic pillars of the IP:

MONITORING AND EVALUATION: Main research institutions in Italy and Slovenia will be involved as end users of the services. The members of the RIAT+ OPERA consortium will also be involved for implementing the tool. APPA Bolzano will be involved as "active" stakeholder, providing data on emissions, level of pollutants and measures of the relative Air Quality Plan especially referring to the actions A1, A2, A3 and D5.

AGRICULTURE

Producers of fertilizers will be directly involved for assisting farmers in the usage methods; farmers and their representatives; Research Centers and Universities will be directly involved especially in the development of the evaluation model.

BIOMASS BURNING

ANFUS (The Association of Chimney Sweeps), AIEL (Association of Agroforestry Energy), Craftsmen Association, Local Authorities and private operators will all be involved in both in technical and communication activities.

TRANSPORTS

Local Public Transport Agencies, Logistic operators, operators in cycle mobility field (such ONG or no-profit organizations), Suppliers and installers of Electric conversion systems, Regulatory, safety and homologation bodies, Academic and research institutes, Environment and technology parks, ICT companies, driving schools and environmental associations will all be directly involved in transports activities. School teachers and students will be involved in actions to promote cycling mobility.

ENERGY EFFICIENCY

Local authorities, Energy agencies, operators, craftsmen and builders associations, Energy Managers of Public and Private bodies will all be involved in the actions foreseen, as well as experts and researchers.

All the above mentioned stakeholders will be asked to give their input in the IP activities, where relevant, through thematic workshops, working groups or direct auditions. Their involvement will be essential for collecting data and comparing experiences in order to define guidelines, e-learning modules, handbooks. Professionals and operators will be directly involved in many of the project actions, such as dedicated training initiatives which aim at increasing the capacity building of people and subjects called to implement the Air Quality Plans. At the end of the IP actions they will be involved in the dissemination of results and best practices through thematic conferences as well as through the dissemination tools of the project (web-site, etc.).

Two specific surveys will be conducted at the beginning and at the end of the project also in order to evaluate the effectiveness of the stakeholders involvement and their increased expertise.

A stakeholder list will be created and constantly updated by the IP coordinating and associated beneficiaries and will be used in the different phases of the project.

It's relevant to mention that all the stakeholders have been involved in prior consultations during the definition of the regional Air Quality Plans. In fact, the procedure to adopt Air Quality Plans includes the Environmental Strategic Assessment, that foreseen the involvement and direct consultation of all the stakeholders representing the sectors that have influence on air quality and that are interested by the measures of the Plans.

The local stakeholders will be involved through periodic meetings managed by the regional/provincial beneficiaries of the IP, which will institute, or will use where already existing, regional Stakeholder Boards (see IP Action F3). The link among the regional stakeholders will be ensured through the project meetings where the IP beneficiaries will be asked to explain their effective involvement.

The Stakeholder Boards will be called at the beginning of the IP and periodically during the project implementation (at least once in each project phase) . The regional and provincial administrations will guarantee the maintenance of the Stakeholder boards also after the conclusion of the IP, so as to ensure the involvement of key stakeholders in the implementation of the regional Air Quality Plans. At least one Report for each Region about the involvement of stakeholders in the implementation of Air Quality Plans will be realized at the end of the IP, eventually containing proposals for a better involvement.



*Ministero delle Infrastrutture
e dei Trasporti*

DIPARTIMENTO PER I TRASPORTI, LA NAVIGAZIONE, GLI AFFARI GENERALI ED IL PERSONALE
DIREZIONE GENERALE PER I SISTEMI DI TRASPORTO AD IMPIANTI FISSI E IL TRASPORTO PUBBLICO LOCALE

Letter of Support as Public Authority to the proposal LIFE-IP PREPAIR Po Region Engaged to Policies of AIR - Call "Life Integrated Projects Environment 2015 – Air quality" - LIFE15 IPE

Name, legal status and activities of the supporter:

Ministero delle Infrastrutture e dei Trasporti, MIT (Italian Ministry of the Infrastructure and Transport)

DIREZIONE GENERALE PER I SISTEMI DI TRASPORTO AD IMPIANTI FISSI E IL TRASPORTO PUBBLICO LOCALE (DGTPPL)

Full address: Via Giuseppe Caraci, 36, 00157, Rome (Italy)

Tel. +39 06 4158 6213

Contact person (name and Functions): Enzo De Pietro

e-mail:enzo.depietro@gmail.com

Why you will support the project: PREPAIR project aims at realizing actions in an integrated way in the Po Valley territory, in order to improve air quality and comply with DIR 2008/50/EC and the new European strategy "Clean Air for Europe". General objectives of PREPAIR are to improve air quality at Po basin level and to implement a common monitoring system of the quality air, with the involvement of Slovenia for the evaluation of cross-border pollution.

The Regions involved will realize actions on reduction of emission due to mobility to safeguard a clean and environmental mobility. A number of these activities should improve environmental, energetic and economical performances of buses actually in force on public transport services companies.

For instance, old Euro III diesel vehicles will be converted into electric bus, ICT tools will be developed for public transport users, fuel saving training will be provided and technological solutions will be adopted in order to assist drivers with their eco driving performances.

Finally, particular importance will be attached to favour modal shift to public transport and cycling.

So that Regions will improve the efficiency of the transport system and meet important emission reduction targets. This is completely in line with the National strategy.

IL DIRETTORE GENERALE

(Ing. Virginio Di Giambattista)



*Ministero delle politiche agricole
alimentari e forestali*

DIPARTIMENTO DELLE POLITICHE EUROPEE E INTERNAZIONALI E DELLO SVILUPPO
RURALE
DIREZIONE GENERALE DELLO SVILUPPO RURALE
DISR III

Support letter for the proposal:
"LIFE-IP PREPAIR"
for the LIFE15 IPE

LIFE-IP PREPAIR Po Region Engaged to Policies of AIR
Call "Life Integrated Projects Environment 2015 - Air quality" -

Name, legal status and activities of the supporter: Ministero delle politiche agricole alimentari e forestali
(Ministry of agricultural food and forestry policies of Italy)

Full address: Via XX Settembre n. 20 -00187 ROMA (ITALIA)

Tel.00390646655031

Fax.NO

Contact person (name and Functions): Maria Vittoria Briscolini - Head of Unit DISR III

e-mail: v.briscolini@politicheagricole.it

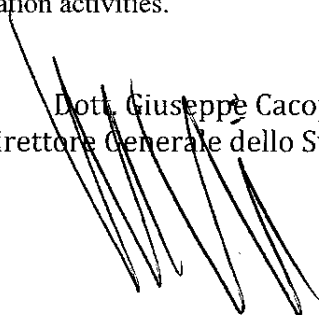
Why you will support the project: PREPAIR project aims at realizing actions in an integrated way in the territory of the Po Valley, in order to improve air quality and comply with Dir. 2008/50/EC and the new European strategy "Clean Air for Europe".

General objectives of PREPAIR are to improve air quality at Po basin level and to implement a common monitoring system of the quality of air, with the involvement of Slovenia for the evaluation of cross-border pollution.

The project will realize coordinated actions in the Po valley in so implementing the agreement signed in December 2013 among national and regional governments for joint and coordinated adoption of measures to improve air quality in several sectors including Agriculture.

With regard to agriculture in particular the project foresees the development of tools to facilitate the policies for the reduction of emissions from intensive rearing and fertilisation activities.

Dott. Giuseppe Cacopardi
Direttore Generale dello Sviluppo RURale



RUR

Support letter for the proposal:

**“LIFE-IP PREPAIR”
for the LIFE15 IPE**

LIFE-IP PREPAIR Po Region Engaged to Policies of AIR

Call “Life Integrated Projects Environment 2015 – Air quality” -

Name, legal status and activities of the supporter: Ministero dell’ambiente e della tutela del territorio e del mare, MATTM (Ministry of the Environment and protection of land and sea of Italy)

Full address: via Cristoforo Colombo, 44 – 00144, Rome (Italy)

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Contact person (name and Functions): Mariano Grillo - Head of Unit
e-mail: grillo.mariano@minambiente.it

Fabio Romeo e-mail romeo.fabio@minambiente.it

Why you will support the project: PREPAIR project aims at realizing actions in an integrated way in the territory of the Po Valley, in order to improve air quality and comply with Dir. 2008/50/EC and the new European strategy “Clean Air for Europe”.
General objectives of PREPAIR are to improve air quality at Po basin level and to implement a common monitoring system of the quality of air, with the involvement of Slovenia for the evaluation of cross-border pollution.

The PREPAIR project partners will implement their regional air quality plans giving a relevant contribution to reaching limit values under Directive 2008/50/EC as well as to reducing emission for reaching compliance with the new National Emission Ceilings Reduction Commitments at national level.

The project will realize coordinated actions in the Po valley in so implementing the agreement signed in December 2013 among national and regional governments for joint and coordinated adoption of measures to improve air quality in particular on the sectors of Agriculture, Biomass burning, Sustainable mobility and Energy efficiency.

Date, 22/02/2016


Dott. Mariano Grillo
Directorate General for waste and pollution



Support letter for the proposal:
“LIFE-IP PREPAIR”
for the LIFE15 IPE

LIFE-IP PREPAIR Po Region Engaged to Policies of Air
Call “Life Integrated Projects Environment 2015 – Air quality”

Name, legal status and activities of the supporter: Agenzia Provinciale Per l’Ambiente della Provincia di Bolzano – APPABZ (Agency of Environment of Bolzano – South Tyrol).

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Contact person (name and functions): Dr. Flavio Ruffini - Head of Unit
e-mail: flavio.ruffini@provincia.bz.it

Massimo Guariento – Technical expert officer
e-mail: massimo.guariento@provincia.bz.it
Tel. +39 0471 411826

Why you will support the project:

As the competent regional public body for the management of air quality we are very interested in the results of the project PREPAIR in order to their replication at local level. In particular we would like to implement at local level the actions regarding the proper use of biomass and the development of best practices in the management of small heating systems using biomass. We also offer our contribution to the measures regarding the management of air quality and we intend to share our experience and expertise to develop the figure of the chimney sweep, and to develop relevant regulatory proposals.

How you will support the project:

Activity of networking and dissemination of the project results

Support for the implementation of the concrete actions during and after the project

Collection of the documents/activities of the project for the implementation of regional policies

Detailed explanation of the support:

APPABZ will actively participate at the following actions A1 (Emissions data set), A2 (The "actions and measures" data set), A3 (Network of special stations for the monitoring of the plan's environmental effects / protocol for realizing experimental campaigns), D5 (Regular valuation (monthly / yearly) of the air quality of the Po basin) and C7 (Strengthening of chimney sweeps' role through specific training and legislative support).

Signature and date:

23/03/2016


Dr. Flavio Ruffini
Director of Agency of Environment





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Letter of Support for the proposal:
“LIFE-IP PREPAIR”
for the LIFE15 IPE

LIFE-IP PREPAIR Po Region Engaged to Policies of AIR
Call “Life Integrated Projects Environment 2015 – Air quality”

Republic of Slovenia, Ministry for Environment and Spatial Planning

Full address: Dunajska 47, SI-1000 Ljubljana

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Fax. +386 1 478 74 25

Contact person: Tanja Bolte, M.Sc., Director General at Environment Directorate

Why you will support the project:

PREPAIR project aims at realizing actions in an integrated way in the territory of the Po Valley and Slovenia, in order to improve air quality and comply with Dir. 2008/50/EC and the European strategy "Clean Air for Europe".

General objectives of PREPAIR are to improve air quality through the implementation of air quality plans and the increase of capacity building. To this aim, PREPAIR will also realize a common monitoring system of the quality of air, with the evaluation of cross-border aspects.

The Slovenian Environment Agency (ARSO) plays a key role in monitoring local air quality plans and evaluating the effects of the measures in reducing air pollution. For this reason, ARSO fully represents the Ministry of Environment and Spatial Planning inside the project PREPAIR.

Date: 13. 2016

Signature: 



Bolzano, 24 of March 2016

TO WHOM IT MAY CONCERN

Letter of Support: PREPAIR – Po Regions Engaged to Policies of Air, (Life Integrated Projects 2016)

With reference to the above named project, we would like to express our sincere interest in supporting and participating as **stakeholder** to the project activities.

We acknowledge the objective of PREPAIR to support the implementation of Directive 2008/50/EC as well as the European strategy "Clean Air for Europe", in order to improve air quality in an integrated way in the territory of the Po Valley.

In particular, the project PREPAIR, by applying a needs based approach, seeks to implement energy efficiency measures in the industry and will involve small and medium enterprises and train the technical knowledge of the companies' staff. PREPAIR will encourage energy audits in SMEs or management systems according to ISO 50001. Also, Directive 2010/31/EU foresees that, starting from 2018, new buildings and major renovations will have to achieve "near zero energy building" standards. In order to achieve this goal, the sensibilization and the fostering of knowledge of professional figures in construction, is of utmost importance. PREPAIR will support the transfer of expertise by offering specialized training courses. Last but not least, we have interest in PREPAIR as it will give support local authorities to save energy in public buildings by setting up information offices.

For any further information, we remain at your disposal.

Yours Sincerely,


Dr. Ing. Ulrich Santa
Director

Ulrich.santa@klimahausagentur.it



EXPECTED CONSTRAINTS AND RISKS RELATED TO THE PROJECT IMPLEMENTATION AND MITIGATION STRATEGY

During the project realization some risks may emerge, mainly related to administrative constraints and the characteristics of an IP where many subjects are involved and several sectors must be addressed. These constraints can be identified in:

1. Managing multiple sectors at different territorial scale. The skills necessary for the implementation of the project are distributed among different levels of government. Therefore, the partners must identify the subjects with relevant competences and involve people with appropriate expertise.
2. Fulfilment of specific administrative procedures. It will be therefore activated a continuous monitoring and evaluation process of the project activities and supervisory boards will be established both at a political and managerial level.
3. Given the long duration of the project, possible variations of actions costs may arise throughout the development of PREPAIR. The numbers inserted, however, already consider the possible future socio-economic variations. In order to overcome this risk, a continuous monitoring of the budget will be ensured and a careful assessment will be done at the end of each project's phase.
4. In order to ensure a correct involvement of stakeholders, each region will establish a Stakeholder Board. The Steering Committee will supervise the effective establishment of the Board and will act with corrective actions if needed.
5. Possible competition with climate change policies in a limited number of actions. PREPAIR will ensure a continuous monitoring in order to guarantee consistency between all sectorial planning through the establishment of the appropriate cross-sector working groups and the general supervision. On the whole, the IP actions will have positive effects both on air quality and climate change.

Other constraints will be more strictly related to the implementation of the actions:

6. It is assumed that the regional Air Quality Plans and concrete PREPAIR actions will bring levels of PM10 and NO2 within the European limits in the whole project area. However, we currently do not have an overall assessment of the impacts of the measures foreseen in the Air Quality Plans and PREPAIR on the quality of air. A first overall assessment will be made through the preparatory action A3 and subsequently detailed and deepened during actions D5 and D6 and through the technical tools realized in actions C1, C2 and C3. The risk is given by the fact that these assessments may show that criticalities in the Po basin could persist. In this case, corrective actions will be undertaken through a cost-benefit analysis conducted through the integrated assessment tool RIAT+ applied at the basin scale (action C3). Another risk is given by the fact that administrative difficulties may prevent the administrations from applying the foreseen measures on time. This risk will be constantly kept under control through preparatory action A2 and during the monitoring of the project (action D1). Moreover actions D2, D5, D6 will continuously monitor the impact of the AQ plans and concrete actions on emissions and air quality. As described in the form B2c, the results of the monitoring activities will be evaluated by the Po Basin Committee (action F3) for decide about the need of further and/or corrective actions.
7. The single dataset created within action A2 will have to comply with European Directives (2004/107/EC and 2008/50/EC) and will have to ensure compatibility with RIAT+ and AQ model standards. A strong interaction will have to be ensured also with actions A1 and A3.
8. Other projects financed by Life or other funds may work in the same field of the IP, so as overlapping must be carefully avoided and these projects shall be "used" as complementary and mutually reinforcing towards the same target of pollution reduction. Networking activities with other projects will be crucial in order to avoid overlaps, share projects results and enhance outputs.
9. As far as agriculture measures are concerned, possible difficulties could include the effective participation of all necessary parties and the feasibility of the actions that will be identified as the most effective. The participation of all parties involved should ensure the

search for the best solutions as it includes the different points of view. The difficulty of finding techniques able to ensure at the same time high effectiveness of emission reduction and good applicability and economic sustainability will be overcome by promoting and ensuring the practical application of the identified techniques.

10. Concerning the logistics of biomass, the technical risk related to the difficulty of recovering data is overcome through the participation as project partner of key players such as territorial regions belonging to the Po basin and the Slovenian Environmental Agency. These bodies are in possession or can collect the data and information relevant to the analysis and are in contact with local authorities directly involved in land management. The good implementation of technical action as the implementation of management plans and traceability protocol will be assured through the involvement of the external expert supporting the partnership in the implementation of these concrete actions. The risk of failing to involve local actors will be mitigated thanks to the implementation of targeted communication actions to raise awareness of local stakeholders with respect to the activities and objectives of the project.

11. As regards the involvement of private companies, the issues that can affect the attainment of the objectives and/or constitute a risk can be summarized mainly in: participation of organizations to the project; availability of grants for investments; general administrative obstacles; crisis liquidity of companies that invest only on the core business leaving out all the possible benefits to the boundary. A straightforward communication campaign will help overcoming these risks by emphasizing the project long term benefits in terms of environmental valorization of companies and financial saving.

12. Risks of the dissemination activities are mainly related to a low access rate to the website, scarce visibility of communication material, an unclear language of the layman's report, a low participation to the conferences and difficulties in reaching the local media for the communication campaign. To further reduce these risks, with reference to the main dissemination tools, it will be particularly paid attention to the following aspects: the website will have an attractive layout and will be continuously updated. The structure will be immediate and user-friendly, considering the heterogeneity of the audience. The contents will be presented in an attractive way. Notice boards will be synthetic, realized using a straight-forward language and placed in strategic locations. Layman's report: the difficulty to "condense" into a few pages such a complex project will be overcome by a selection of key contents, a good capacity of synthesis and the use of functional images. The location of the conferences will be planned with geographical considerations and with the purpose of simplifying the participation to the target audience. The communication campaign will be able to attract people's attention with short yet very significant messages. The video that will be realized will be translated in English and will be displayed in strategic locations. Dissemination material will be available also on the official websites of partners.

The support to communication campaigns and the organization of conferences will overcome the risk of non-homogeneity. The national survey will be conducted on the whole Po basin and the difficulty of coordinating such an extended work will be handled by partners thanks to their experiences. Site visits will make stakeholders and interested people aware of what has been done. The streaming of conferences will allow the spread of PREPAIR messages on a larger scale and will reach all interested people who could not participate to conferences. Capacity building and training activities will be efficiently developed through the use of the e-learning platform.

13. With reference to the biomass communication campaign, the critical aspect debating about the theme of biomass as fuel for domestic heating is of cultural profile: a sort of social objection to accept scientific data that underline the criticality and the impact of the wood when is burned. The need for action on increasing the level of awareness and information on the subject is born specifically from the need to tackle the cultural biases in the environmental field. Therefore, a communication action so broad and capillary goes in that direction. A second element to face when debating about biomass combustion for domestic heating, is the need to promote coordination between policies on air quality with those against climate change, pushing on technological improvement and energy/emission efficiency of the plants. Again, initiatives of information and communication of high scientific

level may help to clarify this point and to send the message also to policy-makers at all levels, from the EC to the national and local scale.

14. Possible knowledge gaps of teachers may prevent the full mastery of educational materials and paths defined. For this reason, the environmental educational paths foreseen allow teachers involvement also in the contents development phase.

Similarly, these constraints also exist for the implementation of the complementary actions foreseen by the Air Quality Plans, The Po Valley Agreement and the EU Operational Programs. Moreover, many of the complementary actions will be realized through calls for proposals thus it is currently impossible to estimate their effective realization rate in a very precise way. PREPAIR monitoring tools and the supervisory boards will take into consideration complementary actions too.

It is relevant to mention that Air Quality Plans and the other Programmes and Plans (e.g. for complementary funds) have been evaluated before their adoption with the Strategic Environmental Assessment (SEA) and the Assessment required by the Habitats Directive. Considering in particular the actions implemented during the IP itself, no Environmental Impact Assessment is necessary during the implementation of the project.

Anyway, all the concrete actions implemented in the IP will be concluded within 15 months before the end of the project. The only measures that continue after this time are the ones related to monitoring the implementation and effects of the actions and communicating their results. In this way, there will be a sufficient period of time as buffer in case of any delay in the implementation of some project actions or in the fulfilment of the administrative procedures and in case of changes in the starting date of the project.

**CONTINUATION / VALORISATION AND LONG TERM SUSTAINIBILITY
AFTER THE END OF THE PROJECT**

• **How will you ensure the long term implementation of the plan and beyond?**

The AQPs of involved regions/provinces are long term plans, almost all targeting at year 2020 and beyond. At the end of their duration, the plans will be updated and newly adopted, as a continuous mechanism to reach and maintain the EU targets.

Partners will ensure the long last effects of the project after the end of financing thanks to the creation of a network where sharing all the experiences and knowledge aimed at promoting synergies. Thanks to PREPAIR the lack of adequate instruments and of the coordination of the existing tools will be overcome and partners will be able to continue implementing and enhancing project objectives by the insertion of PREPAIR results and principles in their own local and regional governance policies. PREPAIR will also allow to create useful tools for air quality management that could be used after the project by partners and all potential air quality managers in Europe as a “toolbox”.

Many actions of PREPAIR project aim at increasing the capacity building, both at institutional and citizens' level. Capacity building activities will be addressed to project partners as well as to actors who are relevant for air quality, such as policy makers and experts working for public administrations, engineers and professionals, industrial managers, farmers and their associations. Improving the awareness of civil society and socio-economic actors is one of the focal goals of PREPAIR and it will lead to have a more conscious community about air quality themes thus creating the conditions for the project durability. The involvement of partners at different levels (regional and local) will assure the duration of the project results, making the policy makers aware of the project benefits. This will assure to the project a concrete long lasting effect in the interested areas, and partners aiming to widen it to the other territories that have not taken part to the project. Moreover, PREPAIR already fully complies with national, regional and local policies, trying to merge and harmonize them, and this will assure the sustainability of its results, general principles that are already fully inserted in partners' own policies. The sustainability of PREPAIR will be also ensured by the participation of partners in existing associations and networks, such as the AIR network, EUROCITIES network and ENCORE network.

• **Which actions will have to be carried out or continued after the end of the project?**

Some actions of the IP will be continued by project beneficiaries after the end of the IP. Referring to the monitoring and evaluation procedure these in particular are:

- C1 “Implementing the data sharing infrastructure and the AQ model”
- C2 “Tool for improved emission inventory on Po basin and emission data warehouse”
- C3 “Implementing the Integrated Assessment Model (RIAT+)”
- D.2 “Periodic update of emission data”
- D.5 “Regular Assessment (monthly/yearly) of the air quality”.

In case of good evaluation some concrete actions will be continued after the IP with the support of regional and local authorities. These actions in particular are:

- C9 “Action promoting cycling mobility”
- C10 “Demonstrative action on conversion propulsion system from diesel to electric”
- C11 “Rationalization of short-range freight logistics in urban and extra/peri-urban areas”.

All concrete actions that will be implemented during the IP will create tools such as software, guidelines, models, e-learning modules, law schemes etc. that will be used also after the end of the project. All the partners are committed to continue the dissemination of these tools and of the results of the IP. To get these objectives other actions that will continue at the end of the IP through the initiative of the beneficiaries are:

- E1 “Information and awareness raising activities”

- F3 “Establishing the governance permanent platform”.

- **How will this be achieved? What resources will be necessary to carry out these actions and how will those capacities be ensured?**

The IP includes within action F3 the project phase 'evaluate lessons learnt and formulate policy recommendations'. All beneficiary regions and provinces will evaluate their exchanged and transferred good practices (lessons learnt) and identify policy recommendations for updating and improving their Air Quality Plans. This action will lead to at least one Report for each Region about the lessons learnt and the policy recommendations for updating and improving their Air Quality Plans. In this way actions implemented by the IP will be included in the regional strategies that will be adopted by beneficiaries after the end of the IP.

The actions that have been selected to continue will be implemented at the end of the IP by the beneficiaries with their own sources or other funds that will be identified from public or private sources.

At the end of action F3 an agreement will be signed among the Regions and the Province of the Po Basin about the commitment to the management of the Data Sharing Infrastructure and the AQ model after the end of the IP as well as the adoption of coordinated measures at the Basin scale.

During Phase 2 and 3 of the project beneficiaries will strengthen and stabilize their partnership. At the end of the project in phase 3 partners will lay down an Agreement aimed at extending this positive cooperation and the project results to the new horizon represented by the European programming period 2021 – 2028, with the involvement and the support of the complementary funds regional authorities.

This will be done with reference to the contents and the audience of the already existing agreements on the air quality in the Po basin (Agreement for the improvement of air quality in the Po basin of December 19th, 2013 and the new Memorandum of Understanding for improving air quality of December 30th, 2015) and also through a dialog with the stakeholders involved in the program for the cross-border cooperation Italy-Slovenia.

The involvement of political representatives and their commitment and continuous support to the project activities will be ensured during the project and afterwards.

- **Will the staff recruited/trained during the project continue to work on the implementation of the plan?**

Permanent staff of the involved associated beneficiary will be involved in action F3 and in the other actions that will continue at the end of the project.

Permanent staff is involved in all the actions by all the beneficiaries. When necessary, additional staff have been foreseen to ensure the effective implementation of the actions, but it will be always supervised by permanent staff.

People involved in the project will be selected among the managers and experts of the beneficiary's staff. These are people usually working on the themes addressed by the IP, so the lessons' learnt and expertise they acquire will increase the know how and capacity building of beneficiaries. In particular technicians and experts involved in capacity building activities will ensure the continuity of project's actions also after its conclusion.

When possible, additional staff will be chosen within the people already selected through public procedures, although not yet employed in the beneficiary' staff, so as to ensure the continuity of people working on the issues addressed by the project.

- **How, where and by whom will the equipment acquired be used after the end of the project? (if relevant)**

The material collected by the Municipality of Bologna for parking the bikes will be used also after the end of the project by citizens and will boost them to use public transport means (train, bus, etc.) so as to promote intermodality.

In action C11 innovative solutions for trucks constructions and for loading/unloading of goods will be investigated in order to identify an onboard equipment (space-saver-

technology) that can handle goods characterized by diversified weights, shape, volume and loads. Through the subscription of an Agreement with the Region, the operators involved in the project will be committed to apply the model of distribution of goods and the equipment for a specific amount of years after the end of the project.

During Action C1 Arpae will upgrade and increase the hardware equipment of the computing centre hosting the data sharing infrastructure. The computing center, managed by Arpae, will continue its operation after the end of the project to produce and disseminate air quality information. This will include monitoring, assessment and forecast of pollutants concentrations in the Po Valley. The maintenance of the data sharing infrastructure will be ensured by the permanent governance infrastructure set up by action F3. The automatic gas analyzers and PM samplers (70 000 €) acquired by Arpae during action D6 will be integrated in the network of fixed stations measuring Air Quality in the Emilia-Romagna region and will be included in the Regional air Quality Assessment plan (art. 2 D.Lvo 155/2010).

In Veneto, equipment will consist in software useful for managing electric vehicles charging points which will be used also after the end of the IP.

The laboratory created by the Province of Trento for training of operators in the correct use and maintenance of biomass plants will be maintained after the end of the project in order to replicate the action in the following years.

The equipment acquired by Region Emilia-Romagna in order to set up the info point for supporting local bodies in acceding to the funds available for increase energy efficiency will be used by the regional staff working on air quality also after the end of the project.

- To what extent will the results and lessons of the project be actively disseminated after the end of the project to those persons and/or organisations that could best make use of them (please identify these persons/organisations)?

At the end of the IP each beneficiary will ensure with its own sources the maximum dissemination of the project contents and results through their institutional websites, conferences and so on. The website of PREPAIR will be maintained for 5 years after the end of the project.

Many of the actions implemented by the IP and many complementary actions directly involve people and organizations who have to implement the AQPs; these people/organizations will therefore be an active subject in the implementation of the IP and complementary actions.

This should ensure the continuity of IP actions on the long term, especially capacity building actions, getting a network of subjects, public and private, responsible for the effective implementation, monitoring and evaluation of the AQPs.

The action F3 includes the creation of a stakeholder board for each region/province where the project contents and results will be presented and discussed. The stakeholder boards will continue after the end of the IP and will lead to at least one Report for each Region about the involvement of stakeholders in the implementation of Air Quality Plans eventually containing proposals for a better involvement.



LIFE Integrated Projects 2015

Stage 2 – Full proposal

TECHNICAL APPLICATION FORMS

**Part C – detailed technical description of the
proposed actions**

DETAILS OF PROPOSED ACTIONS

A. Preparatory actions (elaboration of management/action plans, obtaining licences and permits, trainings, etc.)

ACTION A.1 Emissions data set

Beneficiary responsible for implementation: ARPA Lombardy

Description (what, how, where and when):

The action aims at the preparation of a common data set of emissions for the project target area (Po Valley and Slovenia), based on the existing emissions inventories. By this data set the preliminary assessment of the AQ plans on air quality will be realized (action A.3).

Due to the classification of the emissions sources it will be possible to identify areal and point emission sources such as airports, ports, large plants.

The action will start with a preliminary analysis of the available emission data, that will be used to realize a common emission dataset. The data set will be analyzed in order to investigate the largest discontinuities among regions and support the identification of possible ways to reduce them as input for action D.2. That results will be used to define the technical specifications for action C.2 aimed at realizing a tool for improving emission inventory on Po basin. This tool will produce emission model estimation and data warehouse, will be interfaced with the IAM (RIAT+, action C.3) and applied for the implementation of emission scenarios.

This action will process and merge the dataset currently used by ARPA Lombardy, Arpa Emilia-Romagna, ARPA Piedmont, ARPA Veneto, ARPA Friuli Venezia Giulia, ARPA Valle d'Aosta, Trento Province, Slovenia. APPA of Bolzano will participate as stakeholder sharing their dataset.

The action will be realized within the phase 1 of the project (start February 2017 and December 2018).

Reasons why this action is necessary:

In recent years, many efforts have been done aiming to the development of regional emission inventories on common basin. The development of an emission dataset from the existing inventories can be affected by several discontinuities due to, e.g.:

- the time shift in the framework of the activities and the statistical data release;
- new developments in atmospheric emission sources understanding;
- potential differences in the application of algorithms of different levels, as reported by EMEP Guidebook;
- the possible range of choice of the emission factors.

In this action a first common emission dataset will be built by combining the existing emission inventories: this will provide information on the largest discontinuities among regions and support the identification of possible ways to reduce them as input for action D2.

This action is necessary during the phase 1 of the project since it will provide an essential input for action A.3 (action A3 will assess the expected levels of pollution in the target areas (Po Valley and Slovenia) after the full implementation of the approved AQ plans and of the concrete actions of the PREPAIR project.

Constraints and assumptions

The data set will be compliant with the EMEP Guidebook and IPCC Best Practice. Data about diffuse, line and local emission sources, such as airports, ports and large plants will be provided by regions to allow data analysis. Due to the above indicated link, this action will be realized in strong interaction and cooperation with actions A.2 and A.3.

Expected results (quantitative information when possible):

1. Data flow procedure for building common database and emission data analysis to be carried on in depth in Action D.2. The main activity results will define the estimates improvement procedures embedded into the tool as for action C.2.
2. Combination of the existing emission inventories in a common database selecting the main sources showing higher spatial discontinuities among regions.
3. Procedure definition for the development of emission scenarios according to future trend analysis provided by external sources and in collaboration with action A.2.

Cost estimation:

The following costs have been estimated:

- Personnel (permanent and additional staff)
- Travel and subsistence costs: for meetings within partners involved for action development and Participation to national and/or European meetings about Emission Inventories (EMEP-TFEIP) meeting and related topics (FairMode, other meetings).

Deliverables:

- N.1 data set of emissions for the Po Valley and Slovenia in the reference year (31/01/2018);
- N.1 Report on data flow definition, quantification of the main divergences and procedures for their reduction (31/10/2018).

Milestones:

- Start up meeting within responsible of actions A.1, A.2 and A.3 for coordinate the actions (30/04/2017);
- Identification of local sources (31/08/2017);
- Delivery of the data set for the reference year with the existing emission inventories in the Po Valley and Slovenia (input for action A3) (30/01/2018);
- joint meeting within coordinators of actions A.1, A.2 and A.3 for checking the data and define evaluation method (31/01/2018);
- Quantification of the main divergences of diffuse emission sources among existing emission inventories (30/04/2018);
- Definition procedure for the preparation of emission scenarios according to future trend analysis provided by external sources and in collaboration with action A.2 (31/10/2018);
- Delivery of final report (31/10/2018).

ACTION A.2: System for the environmental accountability of the measures of AQ plans

Beneficiary responsible for implementation: ERVET

Description (what, how, where and when):

The action aims at the preparation of a common data set of actions/measures and of a common system for the periodic upgrading of the actions/measures.

The data set will contain a list and quantitative data about all actions/measures planned by the regional/local AQ plans and by the PREPAIR project itself.

The construction of the dataset will start from the experiences developed by partners. In particular, tools (Clexi software: <http://clexi.ervet.it>) and experiences of environmental accountability in Emilia Romagna.

The database will be produced together with the people in charge of the valuation of the quality of air and of the local and regional planning. It should allow an easy access to the quality of air measures that might be useful in specific situations for satisfying the requirements and the objectives of the quality of air. Also, it should provide guidance to the people at all administrative levels of the member states and the European Union on the cost effectiveness of pollution abatement strategies and actions.

A tool for collecting the data necessary to document the state and progresses in the realization of pollutants reduction measures foreseen in the AQ Plans will be designed and developed. The tasks are:

- Review and organization of the reduction measures in a common database
- Identification of indicators for each action (efficient reduction of emissions, application rate, associated costs, etc.) and definition of the common database with the identified indicators
- Development of a web based platform for the periodic collection of realization indicators (e.g. the updated application rate) from those bodies which apply the measures. The platform will also distribute the output indicators to the subjects in charge of environmental effects assessment.

This action will take into account all actions developed within the project thus it will be implemented in all the project's territories: Emilia-Romagna, Lombardy, Piedmont, Friuli Venezia Giulia, Veneto Regions and province of Trento. Province of Bolzano might participate as stakeholder.

The action will last 20 months, starting in February 2017 until September 2018.

Reasons why this action is necessary:

This action is necessary during phase 1 of the project to prepare the input data to actions A1, A3 in order to realize an assessment of the expected levels of pollution in the target areas (Po Valley and Slovenia) after the full implementation of the approved AQ plans and of the concrete actions of the PREPAIR project.

The tool is necessary during phase 2 for monitoring the state and progresses in the realization of pollutants reduction measures foreseen in the AQ Plans (action D.1) in the Po Valley regions and for the implementation of the IAM (RIAT+) in the Po valley.

This action is necessary during the phase 1 of the project to prepare the input data to actions A.1, A.3 in order to realize an assessment of the expected levels of pollution in the target areas (Po Valley) after the full implementation of the approved AQ plans and of the concrete actions of the PREPAIR project.

Constraints and assumptions

The creation of a single dataset for the whole basin will allow the benchmarking assessments of the cost effectiveness of the single actions.

- The tool shall be compliant with the Commission Implementing Decision laying down rules for Directives 2004/107/EC and 2008/50/EC of the European Parliament and of the Council as regards the reciprocal exchange of information and reporting on ambient air (Decision 2011/850/EU);

- The data collected will ensure the compatibility with the RIAT+ and AQ model standards for input data. The RIAT+ has been developed by the Life-OPERA project.

Due to the above indicated link, this action and actions A1 and A3 will be realized in strong interaction and cooperation.

Expected results (quantitative information when possible):

Design and implementation of a common system for the monitoring and reporting the situation about the realization of the Air Quality Plans.

Cost estimation:

For the design and implementation of the dataset, the average cost/day x n° days of internal personnel has been considered.

External assistance has been considered for the development of the web based tool.

Travel costs for meeting within partners have been also taken into account.

Deliverables:

- 1 dataset of actions and measures for the Po Valley Region with indicators planned by the regional/local AQPs and by the IP itself and a Monitoring Protocol to evaluate the impact of the measures (31/10/2017);
- a web based platform for collecting the data for the accountability of measures (to be implemented in action D.1) (31/07/ 2018);
- technical handbook (31/07/2018).

Milestones:

- creation of a working group for the monitoring of actions for the quality of air (28/02/2017);
- start up meeting within responsible of actions A.1, A.2 and A.3 for coordinating the actions (30/04/2017);
- joint meeting within coordinators of actions A.1, A.2 and A.3 for checking the data and define evaluation method (31/01/2018);
- sharing of the dataset of measures, actions and indicators for each topic (28/02/2017- 30/06/2017);
- transferring of the dataset on the management tool (31/10/2017 – 31/07/2018).

ACTION A.3: Preliminary assessment of the Air Quality Plans

Beneficiary responsible for implementation: ARPAE Emilia-Romagna

Description (what, how, where and when):

The action aims at realizing a preliminary assessment of the expected pollutant levels in the Po Valley target area after the full implementation of the approved AQ plans and of the concrete actions of the PREPAIR project. Moreover the transboundary effects of the Po valley air quality plans on the Slovenia target area will be preliminary evaluated.

The assessment will be based on existing local emissions inventories and on the preliminary estimate of emission reductions due to concrete actions that will be realized by the PREPAIR project. Such data will be collected by actions A1 and A2.

The pollutants considered are PM₁₀, PM_{2.5}, NO₂ and O₃. The assessment method will be defined during the A.2/A.3 actions joint meetings, in accordance with partners and considering the data availability and the information provided by the air quality plans approved by partners. Modelling techniques and/or objective – estimation techniques will be considered. For that purposes an inter-comparison exercise between several air quality models (at least one model for the Po valley and one model for the Slovenia) running on the target domain, will be realized.

This action involves ARPA Lombardy, ARPA Piedmont, ARPA Veneto, ARPA Friuli Venezia Giulia, ARPA Valle d'Aosta, Trento Province and Slovenia.

The preliminary action A.3 will be realized during the phase 1 of the project (start February 2017 end January 2019).

Reasons why this action is necessary:

The action is needed as a first guess for a quantitative answer to the question “*if and how the approved local AQ plans and the concrete actions will reduce air pollution in Po Valley and Slovenia and help reach compliance with limit and target values as covered by Directive 2008/50/EC.*” This preliminary evaluation will be the base for designing and implementing the air quality plans monitoring infrastructure (e.g. the data sharing infrastructure and the air quality models).

Constraints and assumptions

It is assumed that at least a first guess dataset about Po Valley and Slovenia emissions inventory and emission reduction due to concrete actions will be available. To limit the impact of this constraint, this action and actions A.1 and A.2 will be realized in strong interaction and cooperation.

Expected results (quantitative information when possible):

It is expected to realize an assessment of the expected levels of PM₁₀, PM_{2.5}, NO₂ and O₃ in the target areas (Po Valley and Slovenia) after the full implementation of the approved AQ plans and of the concrete actions of the PREPAIR project.

Cost estimation:

The cost of personnel have been estimated considering an average daily rate per partner and the number of working days.

Deliverables:

- n.1 Report on the expected levels for specific pollutants (31/01/2019);
- n.1 Report on the assessment methodology (31/01/2019).

Milestones:

- Start up meeting within responsible of actions A.1, A.2 and A.3 aimed at coordinating the actions (30/04/2017);
- input data available from actions A.1 and A.2 (31/01/2018);
- joint meeting within responsible of actions A.1 A.2 and A.3 aimed at checking the data and defining the evaluation method (31/01/2018);

- preliminary evaluation of the impact of air quality local plans in Po valley (31/01/2019);
- preliminary evaluation of the impact of the trans-boundary effects of Po Valley air quality plans in Slovenia (31/01/2019).

ACTION A.4: Network of special stations for the monitoring of the Plan's environmental effects: definition of the network and of the protocols for measuring

Beneficiary responsible for implementation: ARPA Lombardy

Description (what, how, where and when):

The sub action will define the features of the network of special stations (location of the stations and pollutants to be measured) for the monitoring of the plan's environmental effects. The network will be defined on the basis of existing stations managed by each partner. The action will identify gap; and the common standards for collecting the samples; the protocols of measures; the criteria for organizing the data. The network aims at monitoring the time patterns of some tracers of atmospheric processes not monitored by standard fixed stations, useful to verify the effectiveness of the plans.

Moreover an experimental protocol for defining possible deeper experimental campaigns during the Monitoring and evaluation of the AQ plan (Action D.1) will be defined.

The stations will be located in the territory of Lombardy, Emilia-Romagna, Piedmont, Veneto, Valle d'Aosta, Friuli Venezia Giulia and Slovenia regions.

The action will be realized during the phase 1 of the project (start February 2016 - end October 2018).

Reasons why this action is necessary:

To monitor adequately the results of air quality plans it is important to monitor not only the concentrations of conventional pollutants but also the tracers of the different sources. To do it properly it is necessary to define the stations, the species, the protocols of measures, for collecting the samples; , the criteria for organizing the data.

The network of special stations and the related monitoring protocol will be applied by the Monitoring and evaluation of the AQ plan during the phase 2 of the project (Action D.4).

Constraints and assumptions

Expected results (quantitative information when possible):

Definition of all the information needed to active the monitoring in special stations.

Cost estimation:

For the realization of the action it is necessary to deepen the state of scientific research; to discuss the different opportunities; to identify monitoring points through site inspections. Costs arise from man-hours and travel expenses.

Deliverables:

- 1 document defining the stations, the species and the frequency of measure and the protocols of the measures to be done continuously (30/09/2018);
- 1 document describing the standards for collecting and organizing the data by the existing special stations (30/09/2018);
- 1 document describing the experimental protocol for realizing possible intensive experimental campaigns during the Monitoring and evaluation of the AQ plan (30/09/2018).

Milestones:

- Start up meeting within participants for coordinate the action (30/04/2017);
- Draft document defining the stations, the species and the frequency of measure and the protocols of the measures to be done continuously (15/10/2017);
- Delivery of documents defining the stations, the species and the frequency of measure and the protocols of the measures to be done continuously, the standards for collecting and organizing the data by the existing special stations and the experimental protocol for realizing possible intensive experimental campaigns during the Monitoring and evaluation of the AQ plan (31/07/2018).

C. Concrete (conservation/implementation) actions**ACTION C.1: Implementing the data sharing infrastructure and the AQ model**

Beneficiary responsible for implementation: ARPAE

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 12.1 p. 184 "Gli strumenti di gestione del piano"
Lombardy	ch. 5 p. 238 "Il sistema di monitoraggio"
Piedmont	Regional Law. 7 April 2000, n. 43, art. 7 (B.U. 12 April 2000, 2° supplement to n. 15, p. 5,6)
Veneto	Par. 6.2.11 " Misure a carattere scientifico, conoscitivo, informativo, educativo", Action B2.1 [a,b,c], p. 323
Trento	AC2, p.66, Predisposizione di un sistema di simulazione numerica per la qualità dell'aria.

Description (what, how, where and when):

The objective of this action is to implement the infrastructure to produce and disseminate air quality information. This will include monitoring, assessment and forecast of pollutant concentrations in Po Valley and Slovenia; products will be addressed to PREPAIR partners, stakeholders and citizens.

In Prepair project, Po Valley and Slovenia are treated as a single aerological basin, so it is crucial that all required input data are gathered and treated homogeneously. In this area, air quality is regularly monitored by the different regional and local authorities. Monitoring networks are dense, well maintained and reliable, but they have always been managed largely independently. Several quality control procedures are implemented, in real time, near real time and delayed time, so that data can be invalidated and modified also after a long time. It has therefore been decided not to build a single, centralized database, but to leave to each local authority the task to check, update and disseminate to Prepair partners its own data.

The products of this action will be based on "snapshot" databases, that will be populated with the best data available at the time of production of each product; these databases will also be accessible to Prepair partners. This approach of "exposure and gathering" will also be used for the complementary data, such as meteorological observation special air quality measurements, that are required to generate specific products, as well as for the dissemination of intermediate products between Prepair partners.

Action C.1 will consist of:

- Definition of the formats for data exchange; data exchange will follow the European and Italian standards for "open data" (www.europeandataportal.eu; <http://open-data.europa.eu>; <http://dati.gov.it>);
- Software development for gathering data from the different local authorities;
- Software development for building and managing "snapshot" databases at ARPAE. These databases will be based on Arkimet open-source data management platform (<https://github.com/ARPA-SIMC/arkimet>), enhanced by new implementations to fulfill the requirements of the project. Prepair partners will access data by means of a set of Web Services (machine-to-machine data exchange) and a web based interface, that will allow a guided and user-friendly remote retrieval of data stored. The computer infrastructure will be designed and maintained in order to guarantee business continuity to data access servers. The design of the databases and web interfaces will be fully modular: it will be possible to add new type of data, to change data structure and format;
- One or more air quality models will be implemented in Po Valley area. At least one model will be run daily, to provide air quality forecast and input data for NRT air quality assessment; other models will be run on a regular basis, to provide

ensemble input data for periodic air quality assessment. These models will take advantage of the emission inventories produced and refined by actions A1 and C2;

- Data fusion software will be tested and implemented, to merge gridded model analysis with monitoring data, taking into account proxy variables (such as altitude and high-resolution emission inventories). The analysis will be targeted at urban and rural background concentrations, with a horizontal resolution of 1 km on the whole Po Valley. Assessment will be focused on PM 10 and 2.5, but it will also include all the pollutants whose values exceed EU requirements in Po Valley (namely nitrogen dioxide and ozone);
- Assessment of population exposure will be produced on a periodic (monthly, seasonal and annual) basis, based on data fusion products and geographical information on built-up areas and population distribution;
- Added to the periodic air quality assessments, this action will also produce a number of real time and near real time air quality data, based on gathering of observations, air quality models and data fusion, that will cover the whole Po Valley and Slovenia area. Local authorities taking part in Prepair will have real-time access to these data, and will have the opportunity to use them to inform population on pollution levels (according to current EU legislation), and to enhance their actions of education and awareness-rising.

All software developed in this action will be open source.

During phase 1 of PREPAIR, the architecture of data exchange, snapshot databases and dissemination procedures will be designed and implemented; in the same time, the technical details for gathering of air quality observations will be decided, and air quality models will be tested on a domain covering the whole Po Valley and Slovenia.

Phase 2 will focus on verification, tuning and real time implementation of all products (particularly data fusion and population exposure), as well as on gathering and use of complementary data.

The action will take place during both phase 1 and phase 2 of the project (from July 2017 to June 2020).

This action involves: ARPAE Emilia Romagna, ARPA Lombardy, ARPA Piedmont, ARPA Veneto, ARPA Valle D'Aosta, ARPA Friuli Venezia Giulia, APPA Trento, Slovenia, ERVET.

Reasons why this action is necessary:

The outputs of this action will provide key inputs for two of the main objectives of the project:

- The regular assessment of air quality in Po Valley (action D5) will be largely based on data fusion and population exposure products;
- Communication and public awareness-rising (action E1) will strongly benefit on near-real time tools for air quality monitoring and assessment, as well as on daily air quality forecasts.

Constraints and assumptions

- This action relies on outputs from actions A.1 and C.2 (emission inventories), which will provide an essential input for air quality models. To limit the impact of this constraints, this action and actions A.1 and C.2 will be realized in strong interaction and cooperation.

Expected results (quantitative information when possible):

- Air quality observations from at least 100 stations will be accessible in near real time to project partners; these data will provide a homogeneous coverage of cities and rural areas of Po Valley and Slovenia;
- daily updated air quality analysis and forecast, based on one or more air quality models, as well as observations and data fusion, will be made available to project partners and local authorities; these products will cover Po Valley and Slovenia with a resolution of 5 km;
- complementary data (i.e. non-standard air quality observations) will be gathered and used to improve and validate the products.

Cost estimation:

The following costs have been considered:

- Personnel (permanent and additional staff): estimated considering an average daily rate per partner and the number of working days
- External assistance costs for Software development and/or scientific and technical support for models implementation
- Travel and subsistence costs: for meetings within partners involved for action development and participation to national and/or European meetings about AQ assessment and related topics (i.e. Copernicus, FairMode, other meetings)
- Equipment: HW for computing centre c/o ARP AE and computers and software for ARPA Veneto and Slovenia.

Deliverables:

- Report: definition of format specifications and transmission protocols for data exchange; precise definition of which data and metadata will be exchanged (31/01/2018);
- Report on the air quality modeling systems implemented in this action; these systems produce daily forecasts and near real time analysis (data fusion) (30/04/2019);
- Report on the software tools implemented to produce regularly monthly and annual gridded analysis of air quality in Po Valley and Slovenia; this includes software to estimate population exposure (31/01/2020);
- Report on the use of complementary data for air quality assessment; data that are identified as “significant” are gathered on a regular basis (30/06/2020).

Milestones:

- Data from air quality monitoring networks are made available in near real time by all partners, according to standards defined in deliverable 1 (31/07/2018);
- Joint meeting with action C.2 for coordinate the actions: (31/10/2018);
- Two air quality modeling systems are run operationally by ARP AE Emilia Romagna and Slovenia; they provide daily air quality analysis and forecast over a domain covering Po Valley and Slovenia (31/01/2019);
- Air quality analysis based on data fusion are produced in near real time, and are accessible through the “snapshot databases” (30/04/2019);
- near real time products for communication and monthly air quality assessment start to be produced regularly in their final version; the selected complementary data are available in near real time (30/06/2020).

Action C.2: Tool for improved emission inventory on the Po basin and emission data warehouse

Beneficiary responsible for implementation: ARPA Lombardy

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 12.1 p. 184 "Gli strumenti di gestione del piano"
Piedmont	Regional Law. 7 April 2000, n. 43, art. 7 (B.U. 12 April 2000, 2° supplement to n. 15, p. 5,6)
Veneto	Par. 6.2.11 " Misure a carattere scientifico, conoscitivo, informativo, educativo", Action B2.1 [a,b,c], p. 323

Description (what, how, where and when):

Action A.1 will deliver a data flow analysis and the definition of procedures for estimate an improved emission inventory on Po basin. These evaluations will be the base for the definition of a specific informative tool able to collect existing emission inventories and their update, analysing the data and reducing discontinuities among regions for the main pollution sources.

A tool for collecting the data necessary to build up a common emission data and their improvement on Po basin to be used both as input for emission scenarios development and in monitoring emission reduction on the base of indicators provided by the System for the environmental accountability of the measures of AQ plans (action A.3) will be designed and implemented. The main tasks are:

- organize, archive and distribute data files
- offer a software interface to regional compilers and system users for the periodic update of data
- definition of a common database for the organization of the collected emissions (based on the data set delivered by A1 sub action)
- analysis of the existing emission data and improvement of the estimates
- algorithms for common run for emissions from road traffic and biomass burning on Po basin
- distribution of periodic releases of emission output on Po basin to the subjects in charge of environmental effects assessment (according to action D.2)
- interface of emission results with scenario development (implementing the Integrated Assessment Model) and monitoring the emissive effects of the actions.

The action will start during the phase 1 and end during phase 2 (start April 2018 end March 2020).

Participants: ARPA Lombardy, Arpae Emilia-Romagna, ARPA Piedmont, ARPA Veneto, Trento Province, ARPA Friuli Venezia Giulia, ARPA Valle d'Aosta.

Reasons why this action is necessary:

The bottom-up approach of emission estimates by regional compilers ensure high quality data especially for local pollutant sources as: large plants, airports, landfills, and others. As discussed in point A1 other sources as biomass burning and road traffic require a Po basin analysis in order to overcome possible divergences. The detailed knowledge of regional compilers and a continuous representation of some sources on Po basin will both embedded into this tool.

Constraints and assumptions

The tool should be designed taking into account parallel activities on the other tool and data sharing developed in the frame of PREPAIR.

Expected results (quantitative information when possible):
Informative tool for producing and distributing improved emission dataset as in action D2.

Cost estimation:
The following costs have been considered:

- Personnel (permanent and additional staff): estimated considering the daily rate and the number of working days,
- External assistance costs for tool development.

Deliverables:

- Report: definition of format specifications for data exchange: precise definition of which data and metadata will be exchanged (31/07/2018);
- Informative platform for collecting emission data (31/01/2020).

Milestones:

- Availability of data relative to existing emission inventories by all partners according to standards defined in deliverable 1 (31/10/2018);
- Delivery of the informative platform (31/01/2020).

ACTION C.3: Implementing the Integrated Assessment Model (RIAT+)

Beneficiary responsible for implementation: The action will be coordinated by Arpae Emilia-Romagna through direct consultation with ARPA Piedmont

Region/Province	References in Air Quality Plan
Emilia-Romagna	Ch. 12.1 p. 184 "Gli strumenti di gestione del piano"
Piedmont	Regional Law. 7 April 2000, n. 43, art. 7 (B.U. 12 April 2000, 2° supplement to n. 15, p. 5,6)
Veneto	Par. 6.2.11 "Misure a carattere scientifico, conoscitivo, informativo, educativo", B3.1 Monitoraggio dell'efficacia di risanamento mediante modelli di valutazione integrata, p. 323

Description (what, how, where and when):

The objective of this action is to implement the Decision Support System RIAT+ in the Po Valley. Moreover a feasibility application study, based on the results obtained in the actions A1, A2, will be realized for Slovenia

RIAT+ is an integrated modelling environment using tabular and geographic data, simulation and optimization models, graphical and geographical user interface, focused on the local and regional scales. It incorporates explicitly the specific features of the area, i.e. the local meteorology, the detailed pattern of the emission precursor sources and the prevailing chemical regimes. RIAT+, developed and delivered by the Life-OPERA project, supports the policy makers in the selection of optimal emission reduction technologies.

Peculiar components of RIAT+ core system are:

1. a multi-objective optimization problem solver, i.e. one or more air quality indicators (e.g. yearly PM10 average) are reduced in the policy application domain, minimizing the emission reduction measures costs to obtain this concentration decrease; the solver is able to select and present to the RIAT+ user the entire set of efficient abatement measures, in terms of application rates (i.e. market penetration levels to be reached).
2. a source-receptor model (i.e. a relationships between emission sources and air quality indicators at given receptor sites, based on Artificial Neural Network or other techniques).

To full implement the RIAT+ in Po Valley the following tasks will be realized:

- C.3.1 Input data collection
- C.3.2 CTM simulations: A series of long-term (i.e. yearly) simulations of a CTM model with several emissions scenarios will be performed. The number of simulations should be selected in order to ensure the identification of source/receptor models.
- C.3.3 building the source/receptor models: The results of the CTM simulations will be used to build the source/receptor (S/R) models using ANN. This procedure requires two steps: the definition of the specific structure of the artificial neural network and the calibration of ANN parameters. Finally the identified S/R models will be validated using the CTM simulations results.
- C.3.4 RIAT+ model set-up.

A feasibility study and a RIAT+ application test case in Slovenia will be realized by ARSO, following step by step the tasks C3.1 - C3.4 for the Po valley application domain. During each phase of the work ARSO will check the availability of the input data to implement the RIAT+ tool. A first run of RIAT+ will be a "first guess data" (emissions, S/R, abatement measure database) provided by SHERPA (Screening for High Emission Reduction Potential on Air) a tool developed by JRC. The final report delivered by action C3 will define the feasibility and the implementation strategy of the tool during the next phases of the project.

The action, coordinated by Arpae Emilia-Romagna through direct consultation with ARPA Piedmont, will be fulfilled according to other regional environmental agencies (ARPA Lombardy, ARPA Piedmont ARPA Veneto, ARPA Friuli, ARPA Valle d'Aosta and Slovenia) and will start 15 months after the beginning of the project. ARPA Piedmont is responsible for the tasks C.3.2 and C.3.3.

After the implementation of RIAT+ by action C3, the tool, will be used by action D5 to monitorate the impact on air quality of the application of emission reduction foreseen in regional air quality plans and help to identify the most effective emissions reduction actions at basin scale. If the planned actions turn out to be insufficient to fulfil air quality legislation requirements, a new strategy will have to be adopted in the phase 2 of the project. In this case, updated emission inventories (from action D2) and assessments of the application of concrete actions (from actions D1 and D6) will be used to precisely define the causes of the problem. RIAT+ will then be used to design the most cost-efficient strategy in Po Valley. The action will be performed during the phase 2 and 3 of the project.

At the same time the allocation of resources to the concrete actions, deriving from Operational Programmes and Rural Development Programmes, could be changed towards more efficient measures identified by RIAT+. The cross-sector working groups, within each Region, will be involved in order to check the feasibility (social and economic sustainability) of the proposed actions and in order to report to the complementary funds regional authorities. The evaluation process will be shared with the PO Basin Board, who's in charge of ensuring the long term sustainability of project results. Recommendations about more efficient actions will be detailed in the Project After Life Plan.

The action will start in April 2018 and will end in March 2020.

Participants: ARPA Lombardy, ARPA Veneto., ARPA Friuli Venezia Giulia, ARPA Valle d'Aosta and Slovenia

Reasons why this action is necessary:

Use of RIAT+ allows an analysis of the measures adopted by the several Air Quality action plans and help to evaluate the synergy among the measures and to coordinate the priority ones to be implemented. This integration play a fundamental role since many processes of production and accumulation of pollutants are large scale processes. The application of RIAT+ will help to identify actions at basin scale (priority interregional) as well as measures to be implemented in each regional air quality plan.

Constraints and assumptions

It is assumed that action A.1 (Emission data set) and A.2 (The action and measure data set) are completed before this action starts. To limit the impact of this constraints, a good interaction between the beneficiaries responsible is planned. Moreover the data collected in action D1 (Periodical collection of the measures already planned for the environmental reporting of measures' implementation through the environmental accountability system) will be evaluated with RIAT+ tool.

Expected results (quantitative information when possible):

The Integrated Assessment Model RIAT+ implemented and operational in Po Valley for the evaluation of air quality actions plans.

A feasibility study and a RIAT+ application test case in Slovenia.

Cost estimation:

The following costs have been considered:

- Personnel (permanent and additional staff) estimated considering an average daily rate per partner and the number of working days;
- External assistance costs to implement the RIAT+ software in the Po basin and addressed to high performance computing resources required to perform CTM simulations during the C.3.2 task;
- Travel and subsistence costs for meetings within partners involved in activities and meetings with the developers of RIAT+ (EU-JRC and OPERA partners).

Deliverables:

- Interim report on the implementation of the RIAT+ in Po Valley (30/04/2019);
- Technical report on the feasibility study and RIAT+ application test case in Slovenia (30/04/2019);

- Final report on the implementation of the RIAT+ in Po Valley and Slovenia (31/03/2020).

Milestones:

- C.3.1 Input data collection and feasibility study of RIAT+ application in Slovenia (30/09/2018);
- C.3.2 CTM simulations (31/07/2019);
- C3.3 Source-receptor model development (31/01/2020);
- C.3.4 Riat+ model set up (31/03/2020).

ACTION C.4: Promoting an ammonia low-emission application of fertilizers based on urea in agriculture

Beneficiary responsible for implementation: Region Emilia Romagna

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.5.4 p. 157 "Misure inerenti l'utilizzo dei fertilizzanti in campo agronomico"
Lombardy	Ch. 2.4.2.4 p. 91 "Settore agricolo"; Ch. 3.5.3 page135 "Attività agricole e forestali"; Attach. 3 p. 5 and 9
Piedmont	Regional Law. 7 April 2000, n. 43, art. 7 (B.U. 12 April 2000, 2° supplement to n. 15, p. 5,6)
Veneto	Par. 6.2.9, p. 309-318 "Interventi su agricoltura ed ammoniacca"
Trento	AC10, p. 79, Valutazione delle migliori pratiche di gestione per una riduzione delle emissioni di ammoniacca dal settore agricolo

Description (what, how, where and when):

The project aims at identifying the best application techniques of urea-based fertilizers, which often cause ammonia emissions deriving from urea degradation before absorption by crops, and at verifying (also through field-based analysis) the opportunity of replacing urea with other nitrogen fertilizers or with organic substances, with assessment of the environmental costs and benefits associated.

The project includes studies aimed at:

- individuation of the techniques currently used for fertilizers application, of quantities used, of the farmers involved and of the possible case studies;
- the estimation of the generated impact in terms of emissions reduction, through tests if necessary;
- specific analyses for the identification of the best application techniques with respect to the adopted cropping system or the possibility to identify technological applications to reduce chemical fertilizers to advantage of natural fertilizers (livestock manure) or to other nitrogen fertilizers with a lower nitrogen release into air and water;
- evaluation of the costs and of the replicability of the techniques in the area of the Po Basin (with involvement also of producers of fertilizers and farmers' representatives).

On the bases of the study results, operator trainings and expert meetings will be organized. The project involves fertilizers' producers (who have an assisting role to farmers in the application methods) and farmers representatives.

A conference will also be organized with the aim of presenting the action's results (foreseen and realized within Action E2).

A site visit will be arranged with the aim of developing the action's capacity building (foreseen and realized within Action E2).

The action will be implemented in the Regions Emilia-Romagna, Piedmont, Lombardy, Veneto through case studies.

Trento Province and Friuli-Venezia Giulia Region participate in terms of data sharing and project/expert meetings.

The action will have a maximum duration of three years: from July 2017 to March 2020.

Reasons why this action is necessary:

Ammonia emissions come mostly from the activities of the agricultural sector and contribute significantly to the formation of secondary particles. The application of fertilizers containing urea may cause emissions of ammonia from urea degradation prior to absorption by crops; it is therefore important to identify the best techniques to limit these emissions.

It is considered strategic in order to promote the application of the best techniques to involve main stakeholders in a synergistic way.

The outputs of this action, reported in the position paper, will be used as guidelines to direct the allocation of the complementary funds of Rural Development Programmes, during next European programming period.

Constraints and assumptions

Possible difficulties could include the effective participation of all necessary parties and the feasibility of the actions that will be identified as the most effective.

The participation of all parties involved should ensure the search for the best solutions as it includes the different points of view.

It might be difficult to find techniques that ensure at the same time high effectiveness of emission reduction and good applicability and economic sustainability.

It will be important to promote and ensure as much as possible the practical application of the techniques identified.

Expected results (quantitative information when possible):

Once the effective techniques to reduce emissions are identified and concretely applicable, we expect potentially high results in reducing emissions of ammonia from the activities of application / replacement of fertilizers. By using BAT technique of urea-based fertilizers we expect to achieve at least a reduction of 18% of ammonia emissions.

Cost estimation:

The following costs have been considered:

- For the coordination of the action the average cost/day x n° days of internal personnel.
- External assistance for the studies described above.
- Travel costs for the necessary expert meetings and project meetings and conference.
- Organizational costs for expert meetings.

Deliverables:

Position paper/report on an agrarian system perspective with identification of the good practices to reduce ammonia emissions from the use of chemical fertilizers that includes economically sustainable low emission fertilizer applications, evaluation of the amount of ammonia emissions avoidable and description of case studies (31/03/2020).

Milestones:

Public tenders for the studies (30/04/2018);

Study phases definition and implementation (31/10/2019).

ACTION C.5: Implementation of a common model for evaluation of gaseous emissions and odour resulting from the intensive rearing of cattle, pigs and poultry

Beneficiary responsible for implementation: Region Emilia-Romagna

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.5.3 p. 157 "Misure nel settore degli allevamenti zootecnici"
Lombardy	Ch. 2.4.2.4 p. 91 "Settore agricolo"; Ch. 3.5.3 p.135 "Attività agricole e forestali"; Attach. 3 p. 5 and 9
Piedmont	Regional Law. 7 April 2000, n. 43, art. 7 (B.U. 12 April 2000, 2° supplement to n. 15, p. 5,6)
Veneto	Par. 6.2.9, p. 309-318 "Interventi su agricoltura ed ammoniaca"

Description (what, how, where and when):

The action consists in the elaboration of a common model for the evaluation of gaseous emissions (ammonia, nitrous oxide, methane and carbon dioxide), odour emissions, and potential release of nitrogen compounds in water deriving from cattle, pigs and poultry intensive farming activities with "whole farm approach", after a wide examination of the existing models applied for the same purpose.

The model should be applicable to the single farms, and will be developed through the implementation of a dataset to be shared among the Regions of the Po Basin, it can be tailored on different farm typologies, on different animal categories and on local characteristics. The model can be transferred also to other areas, e.g. extensive mountain livestock systems or applied to a wider scale.

In order to evaluate the impacts of breeding activities on air quality it is commonly recognized the importance of the following principles:

- "whole farm" approach to estimate the overall gaseous and odour emissions of the livestock farm and in general of the whole agricultural farm, which are produced during the various stages of production and management (nutrition, housing, storage, manure treatment and spreading, crop management), taking into consideration the interaction between the benefits obtained in a given phase of the breeding cycle and the impacts of the subsequent phases. The optimization of cattle feeding, manure management and spreading, and crop management practices should result in a reduction of the environmental impact without structural interventions.
- Consider all the environmental components and the interactions between water-soil-air matrices (best practices aimed at reducing nitrogen percolation into groundwater might not be so positive with regard to atmospheric emissions and *vice versa*). As a consequence, the action foresees the implementation of a model which is composed of two interrelated modules:
 - § the first module is qualitative, with the aim of evaluating the environmental sustainability of the livestock farm, following the "whole farm" approach by verifying the application of the best available techniques (BAT) in the different production and management phases of breeding. The quality evaluation consist of awarding each farm a score (basing on a ranking elaborated after a first survey, taking into consideration production and management parameters of livestock farm), that shall estimate the environmental impact of the farm from a qualitative point of view and give indications on the improvement possibilities.
 - § the second module is quantitative and allows to:
 - estimate the gaseous and odour emissions coming from the different phases of production and management of the farm, also in consequence of the BAT application, including those concerning agrometeorology and crops management, and so to evaluate their impacts on air, water and soil.
 - consider all the existing researches and management models in the Po Valley, with the aim to support firstly the evaluation of the environmental "quality" criteria of the farm and secondly the estimation of the farm's emissions starting from collected data concerning applied BATs and relevant farm characteristics.

- produce guidelines about best practices for manure spreading and fertilization. The action will set up a system for providing assistance to farmers for choosing the best application techniques with respect to the meteorological and soil conditions, in order to minimize ammonia emissions in the atmosphere.

The necessity to reduce gaseous emissions will highly depend on economic perspectives linked to this reduction, thus, it will be important to integrate the measurement and evaluation of these emissions at a larger scale in order to develop "quality production brand" criteria for low emission farms taking into account the production systems realities in the Po Basin.

This model should be developed on the basis of a shared dataset suitable to each farm typology, to different categories of reared animals and to local characteristics. It is indeed better to reach a reduction through the application of BATs rather than acting on each single production phase. This reduction should be evaluated through an assessment model of the impacts of all the production and management phases.

Training activities (at least 1 workshop per partner) are foreseen for farmers and operators of the sector.

A conference will be organized with the aim of presenting the action's results (foreseen and realized within Action E2).

A site visit will be arranged with the aim of developing the action's capacity building (foreseen and realized within Action E2).

The action will be implemented in the Regions Emilia-Romagna, Lombardy, Piedmont, Veneto.

Veneto Region is the coordinator for the implementation of the simplified module.

Trento Province and Friuli-Venezia Giulia Region participate in data sharing and project meetings.

ARPAE Emilia Romagna and ARPA Piedmont will participate at the action defining the part of "best practices guidelines" regarding the meteorological conditions and the present and foreseen soil conditions, by setting up a system to provide assistance to farmers for the choice of the best application techniques.

The action will have a maximum duration of about three years: from July 2017 to March 2020.

Reasons why this action is necessary:

It is estimated a contribution of over 95% from the agriculture sector to ammonia emissions in the Po Valley. As a matter of fact ammonia is one of the PM10 precursor emissions, and NEC Directive establishes a limit for national emissions of such pollutant.

The first application of the IPPC Directive to poultry and pig intensive farming allowed to obtain improvements thanks to the adoption of BATs, that are applied to one or several farming phase, basing on the evaluation of the particular situation of every farm, to achieve over time a reduction of gaseous and odour emissions. Such approach has often been supported by local impacts calculation models. These models, however, do not have a uniform application in the Po basin.

It can be estimated that through the BAT application it is possible to fulfill a relevant reduction of the emissions, that can vary basing on the animal category and on specific conditions, e.g. up to 40% of emissions reduction for pig farms.

As regards to cattle farms, currently there is a lack of a uniform model for all the Po basin regions for estimating gaseous and odour emissions produced by the farms and a defined scheme of BAT implementation for reducing the environmental impact to be applicable to farm management and production phases.

Hence, in order to provide a unique evaluation model applicable to all farms, it is necessary to:

- provide a uniform and common evaluation criteria within the Po basin;
- enhance and strengthen the improvement pathway also following the new IED Directive;
- facilitate the application of the new BREF (IRPP), concerning pigs and poultry intensive rearing, that will be issued soon;

- facilitate the application of the sectorial regulations concerning atmospheric emissions and of the guidelines for the reduction of emissions in agriculture that are being elaborated within the Po basin agreement for air quality improvement;
- facilitate the application of a similar approach to cattle breeding, considering the relevance of the related gas emissions.

Constraints and assumptions

Possible critical issues:

- in order to consider all the elaborations and evaluations carried out at local level, it is necessary to involve all the subjects that are currently developing or have participated in the development of local models in the different regions, such as research institutions, universities or territorial development agencies.
- it is necessary to elaborate the model in a format that can be easily applicable and adaptable to all the different types of breeding, in order to facilitate its use for studies and preliminary estimations that could be useful in farm's emissions authorization processes and for the planning and programming tools elaboration.
- the possibility to consider the provisions of forthcoming regulations (BREF for intensive livestock breeding, Po basin agreement guidelines, etc.) depends on the timing of those regulating tools.

Expected results (quantitative information when possible):

By model application we expect to achieve relevant reductions of ammonia emissions from farms (from all the phases of housing, manure storage, treatment and spreading) and a simultaneous reduction of greenhouse gasses emissions. Through BAT application it is possible a relevant reduction of the emissions, that can vary basing on the animal category and on specific conditions, e.g. up to 40% reduction of emissions from pigs breeding.

Cost estimation:

The following costs have been considered:

- for the coordination of the action the average cost/day x n° days of internal personnel;
- external assistance for the development of the model, laboratory analysis and "quality production brand" criteria for low emission farms;
- travel costs for the necessary project meetings, conference and site visits;
- organizational costs for training activities.

Deliverables:

- a common model for the evaluation of gaseous (ammonia, nitrous oxide, methane and carbon dioxide) and odour emissions applicable to the intensive rearing of cattle, pigs and poultry able to support studies and preliminary estimations and be useful in farm's emissions authorization processes and for the elaboration of planning and programming tools (31/03/2020);
- model's manual user (31/03/2020);
- guidelines on "quality production brand" criteria for low emission farms (31/03/2020).

Milestones:

- establishment of a Working Group of experts and definitions of the methodology to implement the action including interchange with project partners (28/02/2018).

ACTION C.6: Technical and specialist training for installers and designers of domestic biomass systems

Beneficiary responsible for implementation: Autonomous Province of Trento

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.3.4.1 p. 128 "Misure per la riqualificazione energetica"
Lombardy	Ch. 2.4.2.2 p. 88 "Settore del riscaldamento civile/residenziale"; Ch. 3.5.2.1 p.127-128 "Fonti energetiche rinnovabili"; Attach. 3 p. 51
Piedmont	d.g.r. 4 agosto 2009, n. 46-11968, par. 1.4 "Prescrizioni specifiche sugli impianti termici negli edifici", par. 1.5 "Generatori di calore" (B.U 7 agosto 2009, 4° supplemento al numero 31, p. 102)
Trento	AC2, p.104, Incentivazione alla sostituzione degli impianti a legna domestici più inquinanti con tecnologie ad alta efficienza
Veneto	Par. 6.2.2, pagg. 254-265 "Utilizzazione delle Biomasse in piccoli impianti civili e combustioni incontrollate", Azione A2.3
Friuli Venezia Giulia	Ch. 7 "Le azioni del Piano" – Par. 7.1.2 "Misure riguardanti il settore dell'energia", p. 428-431

Description (what, how, where and when):

The aim of the action is the qualification of the competences of installers, maintenance engineers and designers of civil and residential biomass systems, offering specific trainings aimed at developing:

- awareness of the impact of biomass plants on air quality;
- technical and professional competences related to criteria and tools to choose, design, install and maintain systems and components, conducting tests and preparing the documentation required;
- recognize the importance of their role as promoters of a culture of environmental sustainability towards the end user and develop communication and interpersonal skills to interact effectively and provide adequate information.

In the Province of Trento, the trade associations have committed, since 2007, in an intensive design and implementation of training programs on energy and environmental sustainability of facilities and buildings. In recent years, 40 training courses have been realized, involving more than 500 participants to about 2,500 hours of training, developing tools, models and methodologies. The scope was to offer technical and specialist training, but also to encourage integration between different actors who are involved in the implementation of building operations and therefore to develop awareness of their important role as promoters of a culture of sustainability. Regarding the specific issue domestic biomass systems, several training sessions have already been organized for installers and maintenance technicians on the themes of aeration and ventilation and control and cleaning of chimneys. In 2014 were also carried out two training courses specifically dedicated to biomass plants, of which this proposal represents a continuation.

The Province of Trento will coordinate this action with the aim of spreading this successful experience at the Po Basin level, in order to increase the number of professionals aware and skilled on these important topics.

At the beginning of this action, the Province of Trento will be in charge of making available to the project partners the experiences and the best practices already developed and to realize a specific training format. The planning of the training format will be entrusted to a sub-contractor with proven experience in the field, who will be in charge of discussing and sharing ideas with all the partners.

Once the training format will be accepted by all the partners involved in this action, the course will be organized in each territory. Each Administration will entrust to a sub-contractor with proven experience in the field the tasks of contracting the teachers, implementing the various steps of the training and the certification exams.

The training format will consist in 4 modules of 20 hours each. The first 4 hours of each module will be dedicated to air quality issues (legislation, pollutants, health impact, main local emission sources, etc.).

The following 16 hours of each module will focus on specific topics, as follows:

- module 1: characteristics of the biomass fuel, with particular reference to the quality of biomass, certification, supply chain, traceability, etc.; different types of process (combustion, gasification, pyrolysis); heating technologies (traditional technologies like fireplace and stoves and innovative ones);
- module 2: integrated planning and system design;
- module 3: systems' installation, testing and maintenance, with particular reference to ventilation, chimneys, legislation, etc.;
- module 4: negotiation and effective communication (communicating the technical offer, preparing estimates, etc.) and proper information and awareness to users

For each edition of the training, it is expected the participation of about 15-20 technicians.

The participants will receive a certificate of attendance, if at least the 75% of the lessons are attended.

The action will take place in: Province of Trento, Emilia-Romagna Region, Veneto Region, Friuli Venezia Giulia Region. Lombardy Region and Piedmont Region will participate mainly with personnel involved in project meetings and sharing of information.

The Autonomous Province of Trento will be in charge of the overall coordination, organizing moments of common planning of the activities and on going evaluation.

FLA will support Trento in the dissemination of the main results of the action and in the involvement of relevant stakeholders during the technical meetings.

The action will last from July 2017 to March 2022.

The Phase 1 will be dedicated to an initial coordination, to plan the trainings, discussing the training format with all the region partners involved; therefore the first edition of the training will be implemented.

During the Phase 2 and Phase 3, the remaining training editions will be implemented. It is expected to propose an edition a year for four years; the training sessions will be concentrated during the winters, more compatible with the professional obligations of the parties involved in the training.

The final months will be dedicated to the final evaluation of the results with the involvement of all partners.

Reasons why this action is necessary:

Thanks to the policies of promoting renewable energies and competitive prices, biomass systems are spreading more and more, not only in the mountain areas where traditionally are already widely present, but also in urban areas.

While the use of the woody biomass as renewable source offers important advantages, from the other side biomass system incorrectly designed, maintained or supplied can have a significant impact on air quality and safety.

The use of a poor quality biomass and the spreading of inefficient combustion appliances do not allow an optimal combustion in household systems causing significant emissions into the atmosphere of harmful compounds to human health, such as fine particles and PAHs (Polycyclic Aromatic Hydrocarbons).

The use of inadequate solid fuel and poor cleaning and maintenance of chimneys increase the risk of fire. Furthermore, the current construction methods of mansard roofs, which favour the use of thick layers of woody insulating material and plastic flammable sheaths, pose buildings at risk of fire due to overheating of the flues.

It is therefore essential to raise awareness of the entire supply chain, from the designer until the private end user, and to offer information to maximize the advantages and minimize the disadvantages and risks associated with the use of biomass.

Designers and installers have a relevant role both in the proper construction and maintenance of biomass systems and in raising private end-users awareness to the issues of sustainability and to proper maintenance of the systems. It is therefore essential to provide specific training to enable the experts to act in a professional and integrated way.

Constraints and assumptions

- delays or administrative problems in entrusting the assignment of planning the training format;
- delays or administrative problems in entrusting the assignment of training;
- lack of participation of some partners in the preparatory meetings, necessary in order to define a common and shared training format;
- lack of participation of the professionals expected to be involved in the trainings.

Expected results (quantitative information when possible):

- Training of about 80 qualified professionals in each partner region;
- Dissemination of the relevance of biomass combustion in terms of air quality;
- Dissemination of a culture of proper design, construction and maintenance of domestic biomass systems;
- Awareness of end-users about proper use and maintenance of the facilities, in particular with respect to measures to guarantee lower emissions of pollutants

With this action it's supposed that a replacement of 10% of the less efficient plants with high energy efficiency ones will take place. So it's estimated a reduction of about 5% of emissions from domestic biomass combustion.

Cost estimation:

Different methodologies have been used to estimate the costs.

The action has been divided into smaller activities in order to quantify more precisely the amount of work to be done and the number of working-days necessary. The budget for the personnel has been quantified as [number of days*average cost/day], divided into permanent staff and temporary staff.

The external assistance refers to the initial organization (in the Coordinator's budget) and to the implementation of the training courses (in each Region's budget). The effort of planning the training

have been quantified as [number of days*average cost/day] and the lectures as [number of training hours*average cost/hour].

Travel and subsistence costs have been estimated for meetings into the project area within partners involved for action development.

The coordinator will assume the costs regarding the definition of a common training format (external assistance) and the overall coordination, monitoring and evaluation (temporary staff).

Each partner will assume at least the costs of personnel, in order to contribute sharing ideas and experiences in this field. According to each territory's needs, each partner will implement a different number of course editions.

Deliverables:

- assessment questionnaire regarding each edition of the trainings, completed by the participants. (31/10/2018 - 31/07/2019 -31/07/2020 -31/07/2021);
- final report about assessment of training and evaluation of the training experience (31/03/2022).

Milestones:

- organization of the course and definition of training format (Phase 1, 30/04/2018);
- meetings with project partners and stakeholders (trade associations, etc.) for the initial coordination of the action (Phase 1, 30/04/2018);
- monitoring meetings, involving all the stakeholders, held once a year during the implementation of the trainings (Phase1, Phase 2 and Phase 3 31/10/2018 - 31/07/2019 -31/07/2020 -31/07/2021);
- conclusion of each edition of the training courses (Phase 1, Phase 2 and Phase 3, 31/10/2018 - 31/07/2019 -31/07/2020 -31/07/2021);
- final evaluation of the training done through meetings with stakeholders (Phase 3, 31/03/2022).

ACTION C.7: Enhancement of the role of "qualified chimney sweep" for the control and maintenance of biomass domestic systems

Beneficiary responsible for implementation: Autonomous Province of Trento

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.3.4.2 p. 130 "Regolamentazione degli impianti di combustione a biomassa per riscaldamento civile"
Lombardy	Ch. 2.4.2.2 p. 88 "Settore del riscaldamento civile/residenziale"; Ch. 3.5.2.1 p.127-128 "Fonti energetiche rinnovabili"; Attach. 3 p. 51
Piedmont	d.g.r. 4 agosto 2009, n. 46-11968, par. 1.4 "Prescrizioni specifiche sugli impianti termici negli edifici", par. 1.5 "Generatori di calore" (B.U 7 agosto 2009, 4° supplemento al numero 31, p. 102)
Veneto	Par. 6.2.2, p. 254-265 "Utilizzazione delle Biomasse in piccoli impianti civili e combustioni incontrollate", Action A2.3bis
Friuli Venezia Giulia	Ch. 7 "Le azioni del Piano" – Par. 7.1.2 "Misure riguardanti il settore dell'energia", p. 428-431
Trento	AC2, p.104, Incentivazione alla sostituzione degli impianti a legna domestici <i>piu inquinanti con tecnologie ad alta efficienza</i>

Description (what, how, where and when):

The figure of the chimney sweep takes on a role of great significance in ensuring the proper use and the safety of domestic plants fuelled by wood/pellet, of chimneys and flues. Its role is also very relevant in creating the conditions for emissions reduction through proper maintenance of the facilities and, above all, raising awareness among end users, who must be educated on the correct choice of fuels and on the importance of periodic maintenance. The chimney sweep also assumes an important role with regard to fire prevention and the economy management system (3 mm of soot determine a decrease of 15% of the system performance).

These conditions and chimney sweeps' role are well highlighted by the majority of European countries, where there are laws and regulations governing the sector. Relevant example is the percentage of carbon monoxide poisoning: Italy has one of the higher rates in Europe.

The figure of the chimney sweep is responsible for *"the maintenance and periodic monitoring of the combustion plants. He cleans the chimneys of fireplaces in the kitchen and independent and centralized heating systems, he checks for flaws that could favour the outbreak of a fire. If necessary, he performs the function of a consultant providing information on more rational heating solutions and on the proper maintenance of the facilities. His responsibilities have been enhanced by the new safety regulations and include, among other things, assessing the suitability of chimneys, flue gas and tanks and the cleaning of the air ducts."*

Considering this framework, the objectives of the action are as follows:

- defining, for each territory taking part in this action, an overall and comprehensive regulatory framework in regards to management, maintenance and security of the heating systems and the current supply and demand of chimney sweeps;
- defining the qualification requirements of a chimney sweep and ensuring appropriate training programs to bring new people to the profession and to update those who already work in the field;
- enhancing the chimney sweep as a professional figure and supporting, through dissemination and communication, the public visibility of its work.

The planned activities are as follows:

1. for each region involved, a survey to quantify the offer (existing chimney sweeps) and the potential demand, an evaluation of their current methods of intervention, as well as the number of new professionals to be involved in the training;

2. a survey amongst each administration involved on the current regulatory framework for the management, maintenance and control of heating systems;
3. analysis of the good practices already in place, especially in the Autonomous Province of Bolzano which has a long standing tradition of training and recognition of the figure of the chimney sweep; evaluation of the qualification requirements compared to existing territorial peculiarities and definition of a qualification profile agreed by all the regions involved;
4. establishment of a public registry of recognized professionals in each region involved;
5. implementation of training courses to upgrade the skills of those who already work as chimney sweeps and/or to prepare them for the certification exam. The trainings will also be proposed to individuals interested in becoming a chimney sweep. Certification of the trained chimney sweeps in order to validate their knowledge and skills. Furthermore, institution of a didactic laboratory where the trainers can practice their applied skills;
6. promotion of the figure of qualified chimney sweep through activities meant to raise public awareness;
7. proposition of a legislation that would formally recognize the chimney sweep as a qualified professional figure.

The project staff of the Coordinator will be in charge of organizing the first activities, in close collaboration to each project partners: surveys, analysis of the best practices and establishment of the public registry. The planning of the training format will be entrusted by the Coordinator to a sub-contractor with proven experience in the field, who will also handle the monitoring and the assessment of the design.

Each region partner involved in this action will entrust assignments to sub-contractors with proved experience in technical education in order to carry out the various steps of the training: lectures and certification exams.

Each region partner will be also in charge of arranging the legislative background necessary to formally recognize the role of chimney sweeps and of promoting its figure towards the general public and the local authorities, especially the municipalities.

The Coordinator will collaborate with the Province of Bolzano, stakeholder of this project, recognized to have a long tradition in this field: the chimney sweeps have already been formally recognized as qualified professional figures, there are local legislations that define how each municipality has to organize and support their work. Experts from Bolzano will be invited to participate to some technical meetings, together with all the partners involved, in order to share experiences and lessons learnt.

Regarding the activity n.5, the Coordinator will be in charge of arranging and proposing a common training format. Each training edition should be divided into 2 modules: 160 hours of the training course for new professionals and 32 hours of updating.

Each edition aims to involve around 30 participants.

Each edition, divided in 2 modules, will cover the following topics:

- CHIMNEY SWEEP TRAINING COURSE (160 training hours):
 1. fundamentals of chimney sweeps' profession;
 2. sector regulations;
 3. role of maintenance to ensure safety, health and good air quality;
 4. technical elements that make up the chimney;
 5. tools and equipment required on the job;
 6. maintenance and control methods of the chimney, measurement and assessment;
 7. trails and practical tests;
 8. drafting of the technical report;
 9. how to get the information to the consumers: effective communication techniques;
 10. knowledge tests during and at the end of the course: theoretical and practical mock tests to prepare for the certification exam.
- CHIMNEY SWEEP UPDATING COURSE (32 training hours):

11. knowledge assessment at the beginning of the course;
12. information on qualification requirements and certification procedures;
13. update on technical and regulatory developments;
14. theoretical and practical mock tests in preparation for the certification exam.

The action includes the establishment of a didactic laboratory where the chimney sweeps can practise their practical skills during the training. It is a one-time activity. It is planned to carry out a feasibility assessment in each territory involved, during the Phase 1, in order to better define the stakeholders to be involved and the exact cost. The laboratory will be established during the following phases of the project.

The action will take place in: Province of Trento, Emilia-Romagna Region, Veneto Region, Piedmont Region, Friuli Venezia Giulia Region.

Lombardy Region will participate mainly with personnel involved in project meetings and sharing of information.

The Autonomous Province of Trento will assume a coordinating role.

FLA will support Trento in the dissemination of the main results of the action and in the involvement of relevant stakeholders during the technical meetings.

The action will last from July 2017 to September 2022.

The Phase 1 will be dedicated to the context analysis, the surveys, the definition of the qualification profile, the planning of training formats and the establishment of a public registry.

The Phases 2 and 3 will be dedicated to the implementation of the training courses and the certification exams. The promotion of the professional figure of the chimney sweep will be held since the Phase 1 for the whole action. During the Phase 3 the partners will work together to propose a legislation that would formally recognize the chimney sweep.

The final months will be dedicated to the evaluation of the results and will see the involvement of all the partners.

Reasons why this action is necessary:

The spread of domestic biomass systems due to the fuel cheapness and the simultaneous increase of fossil fuel prices has led to an overall increase in polluting compounds emissions linked to poor combustion and an increased number of fire due to overheating of the barrel flue.

Chimney construction methods are substantially unchanged from those of the past and the rules for their design and construction have not had sufficient impact on professionals and craftsmen, who are often not properly trained and do not know how to apply them. Building renovations according to the energy standards required by law are almost never followed by a check and regulation of the flues.

The main reasons this project is deemed necessary are the following:

- the increase of domestic plants fuelled by woody biomass that do not guarantee good combustion (bad fuel, poor management, lack of cleanliness) has a significant impact on air quality;
- importance of the enhancement of the figure of the chimney sweep, a technician in direct contact with the end user and therefore, if properly trained, able to sensitise him;
- elevated number of fires caused by the overheating of the flue (> 200 cases per year just in the Province of Trento) and carbon monoxide poisoning (10 cases per year just in the Province of Trento);
- lack of documentation indicating compliance with the standards set for chimneys;
- the need for better legislation to regulate cleaning and construction of chimneys in order to increase both safety and air quality;
- spread in recent years of solid fuel systems that are installed independently without the intervention of the professional figure;
- dissemination of good practices in the construction of chimneys;
- encouraging the training of qualified personnel for the construction and cleaning of chimneys - many studies show that plants expertly constructed contribute to greater

combustion efficiency, resulting in the reduction of pollutants emitted into the atmosphere.

Constraints and assumptions

- delays or administrative problems in entrusting the assignment of planning the training format;
- delays or administrative problems in entrusting the assignment of training;
- lack of participation of some project partners in the initial meetings, necessary to carry out the surveys, to define a qualification profile, to establish the chimney sweeps' registry, etc;
- lack of participations of the professionals expected to be involved in the trainings;
- political obstacles to the development of a legislative proposal to formally recognize the chimney sweep as a qualified professional figure.

Expected results (quantitative information when possible):

- Public recognition of the figure of the chimney sweep through the definition of a qualification profile recognized by all regions taking part in the action;
- definition of the regulatory framework and certification procedures in a professional registry established ad hoc;
- training and certification of an adequate number of new chimney sweeps consistently with the results of the quantitative analysis on the needs of professionals per territory;
- training of the chimney sweeps already operating in the different territories;
- proposition of a specific legislation that aims to formally recognize the chimney sweep as a professional figure;
- spreading of a culture of safety and quality that leads to a correct use of fuels and to greater attention to the maintenance and inspection of chimneys and flues carried out by certified professionals.

A proper maintenance of all the existing plants could lead to increase energy efficiency and reduce emissions of pollutants into the atmosphere of about 7%.

Cost estimation:

Different methodologies have been used to estimate the costs.

The action has been divided into smaller activities in order to quantify more precisely the amount of work to be done and the number of working-days necessary. The budget for the personnel has been quantified as [number of days*average cost/day], divided into permanent staff and temporary staff.

The external assistance refers to the involvement of a sub-contractor of proved experience in the definition of a qualification profile, the definition of a common training format and the realization of the trainings. This amount has been quantified estimating the number of working-days necessary, as [number of days*average cost/day].

The coordinator will assume the costs regarding the first activities like the surveys and the establishment of the registry (permanent and temporary staff), definition of a common training format and the training to the lecturers (external assistance) and the overall coordination, monitoring and evaluation (temporary staff).

Each partner will assume at least the costs of personnel, in order to contribute to the first common activities (surveys, definition of a qualification profile and registry's establishment). According to each territory's needs, each partner will implement a different number of course editions.

Travel and subsistence costs have been estimated for meetings into the project area within partners involved for action development and for meeting with the most relevant stakeholders.

Deliverables:

- Final report of the survey about the quantification of demand-offer of chimney sweeps (31/07/2018);

- final report of the survey about the current regulatory framework of heating systems (31/07/2018);
- report about the qualification profile of chimney sweeps (31/10/2018);
- report containing the training format (31/01/2019);
- assessment questionnaire regarding each edition of the trainings, completed by the participants (Phase 2 – Phase 3) (31/07/2022);
- final report of the training experience (30/09/2022);
- legislative proposal to formally recognize the chimney sweep as a qualified professional figure (30/09/2022).

Milestones:

- Establishment of a public registry of recognized professionals (Phase 1, 31/01/2019).

ACTION C.8: Analysis of the logistics of consumption and supply of woody biomass

Beneficiary responsible for implementation: FLA

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.3.4.2 p. 130 "Regolamentazione degli impianti di combustione a biomassa per riscaldamento civile"
Lombardy	Ch. 2.4.2.2 p. 88 "Settore del riscaldamento civile/residenziale"; Ch. 3.5.2.1 p.127-128 "Fonti energetiche rinnovabili"
Piedmont	l.r. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, pag. 5,6)
Veneto	Par. 6.2.11 " Misure a carattere scientifico, conoscitivo, informativo, educativo", Action B1.1 "Promozione di studi scientifici volti alla definizione e quantificazione delle sorgenti del particolato atmosferico" (p. 322)
Friuli Venezia Giulia	Ch. 7 "Le azioni del Piano" – Par. 7.1.2 "Misure riguardanti il settore dell'energia", p. 428-431

Description (what, how, where and when):

The goal of the action is to optimize the local supply chain management and production of biomass for energy use through the implementation of suitable management plans, the application of traceability protocol, the stakeholder engagement and the comparison of good practices. The action is divided into five different sub actions.

Sub-action C.8.1: Study of supply flows of biomass

The flows of biomass, from abroad and from domestic markets to the Po valley, will be evaluated and quantified, along the stages of the supply chain (production, upstream processing, transportation, storage, downstream processing, commercial distribution, disposal of ashes) depending also on the type of the final fuel (firewood, chips, pellets).

The different sources of supply will be analysed and the final consumption on a regional level will be evaluated, in relation with the different types of use also considering the climatic and morphological characteristics of the territory.

The study will be conducted on the basis of an approach coherent with existing methodologies (emissions inventory INEMAR, ISTAT data sets etc.) and coordinated between the project partners. The available data, thanks to the collaboration of the project partners, will be collected from different regional sources, a new and shared protocol of detection will be defined to ensure the sharing and the comparability of the data collected at the level of Po basin. This action will be in a good synergy with the action D3 that will investigate the residential wood consumption estimation in the Po Valley. The two actions will complement and provide a good picture of consumption and supply of biomass in the Po basin.

To increase the knowledge of the systems of supply at local level, some visits in selected pilot area will be organized to investigate the mode of procurement and management of biomass for thermal use.

At the end of the action, during the project's Final Conference will be presented the study's results and a comparison between the different regions/provinces involved. The action's results will be also disseminated through publications and especially by the project website. The main stakeholders are represented by economic actors operating throughout the wood supply chain, associations and local administrators.

Sub-action C.8.2 Definition of biomass management plans to optimize the production and use of biomass

The main objective of this action is to promote the sustainable use of biomass through the definition of effective biomass management plans able to improve the local supply chain and the local use of biomass, this action will be possible also thanks to the support of an innovative software able to optimize the biomass management plans creation.

The definition and implementation of biomass management plans for the agro-forestry residues is the fundamental starting point for achieving the objectives of sustainable management and production of biomass for energy use.

The main objective of this task is the evaluation of the advantages and effectiveness of the short and well organized production chains, able to minimize the environmental impacts during the collection, transport and storage of biomass and also aimed at encouraging the creation of transparent local markets.

All the elements necessary for an accurate planning of the production and management of the biomass will be evaluated as well as and the guarantee of a production of a biofuel with specific technical and quality parameters, suitable for domestic installations and capable of ensuring lower emissions of air pollutants.

In a selected pilot area, PREPAIR will test an innovative software created by the European MED project "ProForBioMed" (PFBM) designed to optimize and facilitate the drafting of biomass management plans. The software allows fast processing of the data collected to facilitate and optimize the preparation of a forestry management plan. There will be events organized for the training of technicians and employees in the formulation of the plans (thanks to a cooperation with the Spanish Murcia Region).

The main stakeholders are: actors operating throughout the supply chain of wood, local governments, Murcia Region.

Sub-action C.8.3: Application of a traceability system to ensure and improve the management and quality of biomass produced

The chance of reduction and control of atmospheric emissions related to biomass combustion in thermal plants is strongly linked to the quality of fuel used. The production of biomass with the appropriate features to be used for energy production must necessarily include the application of a traceability system capable to guarantee the source, the good management and the legality of the origin (fulfillment of EU Regulation 995/2010).

At the same time it appears to be increasingly important to raise consumer awareness towards the importance of buying a biomass of good quality, of which origin is unknown and produced locally in a sustainable way.

An innovative protocol of traceability defined during the implementation of PFBM project will be made known and available to the technicians (see: <http://proforbiomed.eu/sites/default/files/1.5%20-%20Traceability%20system.pdf>).

This new protocol is an operational tool useful to the technicians and operators in the biomass sector, able to provide guidelines and technical requirements to ensure traceability biomass along the entire production chain, from the supply of raw materials to the final delivery point.

A specific training sessions will be organized to explain to the technicians how to apply and use the traceability protocol.

At the same time, thanks to the specific action E3-Communication on the use of biomass at the Po basin level, coordinated by Lombardy Region, it will be possible to raise with target actions awareness among the final consumers about the importance of buying a biomass guaranteed by a traceability system. To make the action effective and amplify the message the strategic associations as AIEL, ARIBL and other strategic stakeholders will be involved.

To reach this important objective FLA will cooperate with Province of Trento to valorize and capitalize the tools and results implemented in the EU project BIO EN AREA (<http://www.bioenarea.eu>)

The main stakeholders are: technicians and operators involved in the supply chain, local governments, SMEs.

Sub-action C.8.4: Stakeholder engagement and activation of clusters that can ensure the promotion of sustainable and efficient short chains

The direct involvement and cooperation of local actors operating in the management processes and production of biomass for energy use is crucial to achieving the goal of creating efficient and sustainable supply chains. The subscription of *ad hoc* collaborative agreements and the possible activation of clusters are strategic actions in preparation for the optimal realization of bioenergy sector.

In synergy with the action E.3-Communication on the use of biomass at the Po basin level and in close collaboration with Lombardy Region, specific agreements will be prepared aimed at encouraging collaborative activities between the different local stakeholders

acting in the pilot area, promoting the creation of public/private partnership aimed at the birth of a bioenergy cluster with the following objectives:

- Encourage the creation of local supply chains for the production and management of sustainable biomass production chain
- Promote the management of biomass according to a "cascade approach" that takes into account the different possible uses of the raw material
- Promotion and dissemination of good practice.

Based on the results and actions carried out by the project, is expected to start a Working Group (under the agreement "Biomass for Energy Pact" see: http://proforbiomed.eu/sites/default/files/Biomass%20for%20Energy%20Pact_nosignatures.pdf) with the objective of producing a document ("Position Paper") to submit to the national and EU institutions. The document will contain a series of concrete proposals to apply locally, with the direct support of the institutions, designed to overcome the most critical and strong barriers that hinder the achievement of the targets for the reduction of air pollution from the burning of biomass.

The main stakeholders are: actors of the supply chain of biomass, local governments, trade associations, universities and research institutions. The bodies subscribers of the agreement "Biomass for Energy Pact" at local, national and European level.

Sub-action C.8.5: Collection and dissemination of good practices related to the use of biomass

The project PREPAIR will disseminate at local/regional level some of the most important experiences developed in Europe (in the context of previous projects) as the evaluation and study of emissions from residential combustion of different types of pellets, the application of innovative software for the definition of management plans for biomass, the activation of participatory processes for the formation of local clusters and the signing of cooperation agreements for the production of energy from renewable sources, new ways of communication and public awareness on the issue of energy production from biomass.

The main stakeholders are: economic and social subjects operating throughout the supply chain of wood, local administrations.

Possible valorization of: the European project FOROPA that involved the Province of Bolzano (through TIS) and Styria (A) , as lead partner (HCS - Holzcluster Styria GmbH); capitalization of the project PROFORBIOMED (<http://proforbiomed.eu/>) involving the Lombardy Foundation for the Environment as the National coordinator and the Murcia Region as lead partner; capitalization of the project BIO EN AREA (<http://www.bioenarea.eu>), involving the Province of Trento.

The action will involve the following Regions/Provinces: Emilia-Romagna, Lombardy, Piedmont, Veneto, Friuli Venezia Giulia, Trento.

The action will last from July 2017 to December 2020.

Reasons why this action is necessary:

Biomass is a clean energy as it contributes to the reduction of the carbon footprint, promotes the development of local economies in the most deprived regions, increases rural employment, helps the conservation of forests, it improves the pasture rents and the habitats of wildlife and hunting species etc.

A key point to ensure that this resource will be actually beneficial is to promote the sustainable use of biomass as a RE source, recovering in particular the forest biomass potential, developing technical and legal aspects and promoting the use of residual forestry biomass for energy. For this reason is essential to know in depth the biomass production chain and the flows of biomass on the territory. On the basis of this information, it will be possible to optimize supply chains through the use of strategic tools as biomass management plans and traceability protocol (this tool could be capitalized from PFBM project). To ensure long-term results, the strategy relies on the involvement of key stakeholders involved in biomass production chain that takes into account sustainability and compatibility with other uses and provides new economic opportunities.

This action operates in a multi-sectorial dimension, working with public and private stakeholders related to biomass chains at all levels (from European to local).

The action will involve all the partners and will include an analysis of supply flow of biomass throughout the Po basin. In one selected pilot area, an innovative software for the production of the management plans will be tested (produced by the EU PFBM project) as useful tool to optimize the biomass production chain. At the same time, actions to involve strategic and local stakeholders will be carried out with the main objective to promote the birth of new clusters or to stimulate the existing ones. The methodology used and the results obtained by the pilot action will be spread at EU level.

Constraints and assumptions

The technical risk related to the difficulty to recover of data is effectively mitigated by the participation, as project partners, of key institutional actors as the Regional administrations belonging to the Po basin that are in possession of the data and information relevant to the analysis and that are in contact with local authorities directly involved in land management. The good implementation of technical action as well as the implementation of management plans and traceability protocol will be assured by the involvement of the external experts that support the partnership in the implementation of these concrete actions. The risk of failing to involve local actors will be mitigated thanks to the implementation of targeted communication actions to raise awareness of local stakeholders with respect to the activities and objectives of the project (see actions E). In particular, the task 5 provides a specific action of dissemination of best practices related to management and production of biomass. Moreover, the institutional partnership has a very strong potential for involvement of both local actors and national/international subjects.

Expected results (quantitative information when possible):

- 1 study related to the biomass flows relative to the entire Po basin. It will analyze the sources of supply and will evaluate the final consumption at a regional and, municipal scale also considering different types of households and taking into account the climatic and morphological characteristics of the territory. This study will be supplemented by the data obtained in the action D3 that will investigate the residential wood consumption estimation in the Po Valley.
- 1 protocol of detection useful to ensure the sharing and the comparability of the data collected at the level of Po basin
- At least 1 training sessions with the involvement at least of 60 technicians on how to apply the PFBM Biomass Management Plan software
- At least 1 Biomass Management Plan (even more, depending on the number of interested partners) produced in specific pilot areas.
- At least 1 training session with the involvement of more than 60 technicians on how to apply the PFBM Traceability protocol,
- At least 1 clusters (or dynamization of existing clusters) produced
- 1 best practice book containing the selected good practices by partners.

Cost estimation:

The following costs have been considered:

- Personnel (permanent and additional staff)
- External assistance costs for the implementation of the study on biomass flows to the entire Po basin, the project management plan definition, the traceability training courses organization, the cluster development and the definition, translation in German language and dissemination of the best practices book
- Travel and subsistence cost for the visits in the selected pilot area by partners involved and for the know-how transferring with Murcia Region
- Consumable for training courses
- Other costs.

Different methodologies have been used to estimate the costs, considering the different kind of outputs of this action. A major fraction of the budget will be dedicated to staff cost,

the personnel of the project partners involved have a good experience in the coordination and implementation of the technical activities related to biomass issue; while a consistent part of budget will be dedicated to external experts, that will support project partners in the implementation of the more technical parts. A part of the budget will be also devoted to the involvement of technical expert from Murcia region who developed the PFBM software for transferring the know-how. A part of the budget will be dedicated to travel cost for the visits in the selected pilot area to investigate the mode of procurement and management of biomass for thermal use.

Deliverables:

- 1 study related to the biomass flows relative to the entire Po basin (31/10/2019);
- 1 protocol of detection useful to ensure the sharing and the comparability of the data collected at the level of Po basin (31/10/2019);
- 1 best practice book (30/04/2020);
- Information Material on training sessions (30/04/2020);
- 1 Biomass Management Plan (31/12/2020).

Milestones:

- Data recovery by partners (31/10/2018);
- Stakeholders involvement (31/07/2019).

ACTION C.9: Actions promoting cycling mobility

Beneficiary responsible for implementation: Piedmont Region

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.1.3.2 p. 96 "Misure per la riduzione dei flussi veicolari nei centri abitati" cap. 9.2.3.4 p. 110 "Interventi per l'interscambio modale"
Lombardy	Ch. 2.4.2.1 p. 84 "Trasporto stradale"; Ch. 3.5.1.1 p.116-121 "Trasporto privato" and "Trasporto pubblico locale"; Attach. 3 p. 106, 107
Piedmont	l.r. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)
Veneto	Par.. 6.2.7 "Interventi sul trasporto passeggeri", Actions A.7.14 and A7.14bis, p. 297
Trento	APt 5, p.117, "Promozione della mobilità ciclistica"
Friuli Venezia Giulia	Ch. 7 "Le azioni del Piano" - Par. 7.1.2 "Misure riguardanti il settore dei trasporti", p. 425-428

Description (what, how, where and when):

Cycling mobility is one of the major elements recalled in Air Quality Plans because it responds to the multiple aim of reducing, at the same time, vehicles congestion and air pollution in urban areas.

There are many aspects of cycling mobility that need to be dealt with in order to promote and improve this kind of transport. This action wants to ensure that each partner involved will be able to realize in its territory measures that will respond to the different territorial and planning peculiarities and that are complementary to the ones already included in other funding schemes.

Conditions for improving cycling in urban areas can be enhanced by several type of infrastructural and promotional measures, like increasing road safety for bikers, preventing bikes thefts, supporting local administrators involved in urban planning and transportation issues in their task of upgrading and improving existing cycling networks and bike-parking facilities, training young students on the benefits of travelling using sustainable modes and teaching them how to ride bicycles in a safe way.

The different tasks will be developed within the Po basin. Each partner will apply the ones that better fit with local necessities to integrate the existing infrastructures and services in conformity with Mobility and Air Quality Plans. Experience exchanges between Po valley Regions on measures promoting cycling in daily life, will allow to capitalize the best practices and give a wider effect to local initiatives.

Sub-action C.9.1 – Training of public officers and advisors

This task aims at raising the awareness and provide technical information through training for policy makers or advisors and police officers from local government with courses in classroom and on field. The training action also aims at urging the local authorities to ensure that their planning initiatives take into account, in an integrated way, of all the modes of transport existing or planned in a given territory.

The main contents of training modules are going to be co-planned and shared by all participating partners.

Some of the main topics developed will be:

- information on the national and regional framework legislation that regulate bike infrastructures and amenities, so that municipal authorities appropriately integrate their local cycle track networks and services into the regional scale identified by the Regional Plans;
- planning and design of cycling networks and facilities (dissemination at regional level of the GIS-based database of the Bicycle Network): bike plans, cycle track networks, sign systems, good practices;
- developing the theme of safety and sustainability of bike routes especially for home-school mobility;

- the e-bike: electric bikes and pedal-assisted bike “Pedelec” (Pedal Electric Cycle): types, mechanical and electric power features, operation, maintenance, driving styles, battery re-charging modes and systems, economic costs, safety and security rules, advantages and problems.
- bicycle logistics for sustainable delivery of goods in cities: the organization of the goods delivery, the cargo bike, spaces for loading/unloading, the accessibility to the city; transport and mobility in the city centres;
- information and recommendations on the planning of intermodal transport facilities and policies (bike + local public transport, with particular reference to the railway stations).

This action will contribute to consolidate the collaboration with the national Working Group on "Cycling Mobility" and to the implementation of and will be complementary with the actions provided by the ROP-ERDF 2014-2020 and by PON Metropolitan City.

The task will take place in: Region Piedmont, Emilia Romagna Region, Lombardy Region and Friuli Venezia Giulia Region.

FLA is in charge of coordinating and developing the tasks and of its application in Lombardy Region.

Sub-action C.9.2 - Training in schools and for citizens

Young people are a strategic target group for changing travel modes, as mobility attitudes are deeply influenced by experiences from an early age. Therefore, it's important to:

- raise awareness on transport / health / safety issues among children and their parents;
- encourage the use of bike.

In this action a programme focused on behavioural changes will be delivered in order to increase the number of school pupils cycling to and from school safely. The aim is to promote safe routes to primary schools and to develop a network of Bike Ambassadors which encourage secondary school pupils to increase pro-bike attitudes amongst their peers.

This task will be realized involving 50 primary and secondary schools (students aged 6-11), low secondary (students aged 11-14) and high secondary (students aged 14-19) schools. The training will regard how to reach schools safely and how to plan, develop and deliver surveys and campaign supporting biking. The training will be hosted by specifically hired paediatricians, in coordination with schools' champions (one or more teachers for every school). The champion(s) will choose the students that will be part of the Bike Ambassadors network, and the paediatrician will work with them, gathering and stimulating their ideas to reach the above mentioned goals of the training. We will also hire psychologists to talk with parents, because, in the Italian culture, they are usually scared of allowing their children to cycle in big cities full of motorized vehicles, like Milan.

The increase of capacity building in the scholar environment will be fulfilled by developing a toolkit of competences “Curriculum for teaching bike safety in the schools” and supplying technical skills and scientific approaches into surveying travel behaviour and issues at schools.

Another aspect that this activity will cover is the important issue of “road safety”, organising educational projects to spread the main issues regarding road safety and respect for cyclers and pedestrians. Moreover, a “Safe Routes to school” manual will be produced to help students who ride their bikes on the public roads and have to interact with traffic. These projects will be held in collaboration with the Municipal Police.

At the end of every school year, the schools will be spilt in 3 tiers, bronze, silver and gold, depending on their results in terms of number and diversity of activities made. Every school that will take part to the program will be given a certification for the participation with the tier they reached.

In order to enhance the use of bike among children and young people, this task will involve also students to take part in a video competition on the health benefits of cycling.

In Bologna high-skilled personnel will be training school pupils (i.e. Municipal police) who is highly experienced for topics related to road safety. The action is mainly targeted on

primary and middle schools because of the major proximity between school and home, a distance which would be easily covered by bike.

The task will take place in: Municipality of Milan, Municipality of Bologna

Sub-action C.9.3 – Survey on bike infrastructures availability in railway stations

Survey on the necessity of bike infrastructures (parking, ramp, lift, access system to the rail line, road sign, electric recharging point, etc.) in the main railways stations of the participating Regions and in the urban area of the Municipality of Bologna, in order to direct funding opportunities to improve intermodal mobility systems (bike + train + local public transport) and bikes parking infrastructures.

The task will take place in: Emilia-Romagna Region, Piedmont Region, Municipality of Bologna

Sub-action C.9.4 – Bike –station and improvement of bike infrastructures

This task regards the feasibility study of “Bike Station” as a closed and controlled area where it is possible to park bikes for long time (example automatic underground bike parking system). The task includes also the realization of a bike service covering 24/24 hours, with the maximum level of safety control for bike & bikers.

The aim is to develop an innovative structural and managerial model for save and comfortable bike parking with accessory services, such as bicycle racks, helmets and clothing repository and repairing facilities, in order to encourage a greater intermodality between bicycle and public transport. The development of the project should follow SUMP’s rules and will necessary involve cyclists’ local associations, commuters, and associations of the Mobility Managers in the area.

The management of the bike station could be operated with the involvement of the third sector and associations and integrated with the interoperable existing mobility charging systems.

Interventions are foreseen also on:

- signage for bicycles, in order to improve road signs for better addressing the cycle mobility and to renewal the already existing ones;
- bicycle racks (in public spaces and private buildings), cycle path marking, signposting, parking facilities, service infrastructure on cycle paths;
- projects for recovery and reuse of abandoned bicycles.

As far as communication and dissemination actions are concerned, special initiatives for the promotion of the cycle mobility will be realized within national and European major events, such as the European Mobility Week, the National Bike Day, Bike Pride, etc. In particular, the Municipality of Bologna will be committed in the communication and dissemination actions during the European Mobility Week, involving citizens and associations.

The task will take place in: Municipality of Bologna, Region Piedmont, Municipality of Turin.

Sub-action C.9.5 – Geo-tracking of bike lines and bike navigator

This task aims at assessing the quality of regional bike lines and routes and their geo-tracking so to realize a regional geo-roadmap by which it could be possible to find any type of information to choose the best route (destination, type of line, road surface, road signs, safety awareness, traffic flows, dangerous intersections, availability, etc.).

Realization of a bike-navigator, a mobile information system dedicated to cyclists The tool should provide information on the quality of the bike path and on available services such as parking and bike repair. Information will be made available like open-data.

The geo-referenced data that will be collected with regard to classification and typology of cycle paths, parking sites, repairing facilities sites, etc.

This action involves the Municipality of Turin and Piedmont Region

Sub-action C.9.6 - Modal split analysis

The main goal is to increase the modal shift from motorized mobility to cycling mobility in urban areas.

A survey is then necessary, on a representative sample of urban population, to determine the travel behaviour and identify the modal split among cars/bicycles/motorbikes/busses and pedestrians.

The analysis will be run through a traffic sources and destinations enquiry, a study of the land use and territorial planning, in order to determine where daily life cycling mobility has the major increasing potential.

The task will take place in: Municipality of Bologna

The overall action will last from July 2017 to September 2022.

Reasons why this action is necessary:

This action is necessary to support a *low-impact mobility* (non-motorised modes of transport) and sustainable mobility (transport using less fossil fuels, cleaner urban air).

Cycling mobility is playing an important role as an emission-free means of transport by itself but also as feeder of public transport facilities. It is an important goal to strengthen its share in modal split, increasingly replacing motorized mobility especially over short distances (<5 km).

Infrastructures and services offer is fundamental to develop cycling mobility, but, in order to really shift from motorized to cycling mobility, a change in people behaviour is necessary.

The proposal of training courses addressed to schools (children, parents and teachers), to the local governments officers and technicians and to citizens in general, aims to help develop a real culture of cycling in the Po Valley's cities.

The operators and officials of the Public Administrations do hardly have specific expertise on the subject of the cycling mobility; therefore a specific training on an efficient planning and design of cycling networks is particularly important to the aims of the diffusion of a *low-impact mobility*.

To create conditions to facilitate and promote the use of bicycles for school-home or work-home commuting and for leisure is becoming a necessity for the abatement of green-house gases emission and air pollution, the reduction of congestion and noise in urban areas, and also to make more accessible and efficient the local public transport, often hampered by a lack of sufficient economic resources.

It is therefore essential that the decision-makers involved in the mobility policies are incited to promote this strategic mode of transport to make it capable to cover most of the daily commuting at least in the range of the "first and last mile".

Constraints and assumptions

The review of actions promoting cycling mobility in several towns or central districts shows that the long-term success of innovative mobility concepts depends on the fact that they are capable to respond to the local challenges and are supported by local teams or interest groups.

The implementation of the measures that have been devised depends often on the decision taken by local municipalities plans. Therefore local co-funding of the planned activities as expression of the local commitment is a prerequisite for all their implementations.

Expected results (quantitative information when possible):

- A development and improvement of specific skills on cycling mobility planning and promotion in public administrations;
- Citizens and stakeholder involvement in training projects and measures for urban cycling promotion;
- Increase of the number of citizens willing to use the bike in the urban areas also within an intermodal approach helping to reach the targets of bike fraction of the total urban mobility set in Air Quality Plans;
- Improvement of bike infrastructures availability in urban areas.

It is expected a further 4% reduction, compared to that estimated by Regional Air Quality Plans, in the use of private cars in urban and suburban area.

Cost estimation:

Different methodologies have been used to estimate the costs, considering the different kind of outputs of this action.

The following type of costs have been considered:

- Personnel (permanent and additional staff)
- External assistance costs for the feasibility study of “Bike Station”, the surveys and data recovery, stakeholders to promote regular and safe cycling, the realization of the open data on geo-referenced bike paths and services platform and bike navigators;
- Equipment costs for bike infrastructures, teaching materials;
- Travel and subsistence cost for the project meetings (co-planning, participation to foreseen events and activities);
- Consumables for training courses, teaching materials, foreseen initiatives, bicycle toolkits and bike accessories.

Deliverables:

- teaching materials (slides, video, cartographic info related to the visiting sites) (31/01/2019);
- report on information and recommendations on the planning of intermodal transport facilities and policies (bike + local public transport, with particular reference to the railway stations) (30/04/2019);
- modal split analysis report (30/04/2020);
- toolkit of competences “Curriculum for teaching bike safety in the schools” (31/01/2021);
- brochure about local services and facilities for bicycles (30/04/2021);
- survey on bike infrastructures availability in the main regional railway stations and in urban area (31/08/2020);
- video through competition in at least 40 schools on the issue “biking to school” (31/10/2021);
- open data on geo-referenced bike paths and services (31/10/2021);
- feasibility study and management of at least 1 bike-station (31/08/2022);
- bike-navigator (30/09/2022).

Milestones:

- Institution of working groups for co-planning of training modules and teaching materials (30/04/2018);
- Co-planning of main contents of training modules (31/07/2018);
- Data collection and involvement of associations (31/08/2018);
- Organization of public educational /training activities (at least 30 during project) on road safety and respect for cycle and pedestrian and production of a “Safe Routes to school” manual (31/01/2020);
- Creation of low-speed zones (31/12/2020);
- Public tenders for external assistance and surveys (where necessary) (30/04/2021);
- Projects development for recovery and reuse of abandoned bicycles (31/08/2022).

ACTION C.10: Demonstrative action on conversion propulsion system from diesel to electric

Beneficiary responsible for implementation: Piedmont Region

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	ch. 9.2.4.1 p. 114 "Promozione dell'utilizzo di veicoli elettrici"
Piedmont	l.r. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)
Veneto	Par. 6.2.7 "Interventi sul trasporto passeggeri", action A7.7, p. 295

Description (what, how, where and when):

Diesel-powered vehicles are responsible for a large part of nitrogen oxides (NOx) and particulate matter (PM) emissions from transportation sources. Particulate matter is created during the incomplete combustion of diesel fuel. Diesel engines release particulate matter directly into the air and emit nitrogen oxides and sulphur oxides, which transform into "secondary" particulates in the atmosphere.

A substantial number of buses, in force on public transport services companies, uses diesel fuel.

However, one of the promising energy carriers capable of replacing diesel fuel and improving air quality is electricity.

The goal of this action is to tackle pollution derived from vehicle emissions by studying a system to convert an old Euro III bus with diesel engine into a vehicle with full electric powertrain. So that it will be necessary to try manufacturing a modular electric propulsion system suitable for urban busses the "electrification kit" and realizing a prototype.

According to the Italian legislation (DECRETO 1 dicembre 2015, n. 219) and in compliance with European law, the manufacturer of the prototype will have to certify the vehicle parameters, in terms of performances and safety, by satisfying the relevant administrative provisions and technical requirements requested by the "Type - approval" procedure.

The action is conceived in two distinct activities:

Feasibility study

This study is developed in two sub-phases:

1) Pre - analysis: the manufacturer will define concept and vehicle targets with the support of a local Public Transport Services Company.

Based on the analysis of the Public Transport Company needs about the typical daily vehicle usage provided during the pre-analysis, the manufacturer will take care of the main vehicle targets definition useful for system and subsystem identification.

In this sub-phase it will be investigated the vehicle mission profile and will be defined vehicle performances.

As an examples the vehicle mission profile could included the next items: Vehicle segment, Competitors, Target price, Markets, Volumes, Investments, Vehicle duty cycle, Duration of cycle, Daily distance, Average speed, Max speed, Number of stop and go, Energy consumption, Max slope to be passed at full load, Max torque, Recharge time at grid, Recharge time at terminal bus, Max perceived noise, Endurance time, Safety device. Based on the vehicle mission profile, the manufacturer will define the target cascade for system, subsystem and component relevant to the vehicle traction. As an example: nominal and max power and torque for electric motors, nominal and max power for battery, energy capacity for battery, power for battery charger.

These data will be used in order to make a technical specification for each system and component needed for the vehicle transformation.

The technical specifications will be used as technical basis for a market research of existing components.

The manufacturer will take care of performance vehicle simulation to support the technical specification definition.

2) Engineering development: development will be done for one specific bus EURO III Diesel, twelve metres long. During this phase the manufacturer will define the kit technical features and will engineer the vehicle transformation (physical integration).

The manufacturer will make a scan of the specific bus identified by the Public Transport Company engine Unit (provided already without the thermal engine) in order to get the CAD data engine compartment space useful to study the electric powertrain vehicle integration possibility. The electric powertrain CAD data needed for the feasibility study is assumed to be provided by suppliers free of charge. (Suppliers of key components such as electric motors, battery pack, reduction gear and battery charger have to be on board for feasibility).

The evidence of the feasibility analysis manufacturer will be the production of 3D powertrain packaging studies and 3D definition powertrain frame support. The feasibility analysis will include: Draft prototype manufacturing strategy defined, Legal and regulatory requirements identified.

The engineering development will be completed by a rough business case which will describe the steps to approach the realization of prototype and the electrification of a bus Euro III, profitability and effects of the decisions made.

The engineering development includes also a validation phase. The Performance Engineering and Vehicle Testing department operates during the whole vehicle development process from concept phase up to production support minimizing the time and costs for testing (virtual and/or physical) and "Type - approval" procedure.

The testing activities and plan definition will be based on an initial activity on benchmarking and target setting agreed with the Public Transport Company and settled in the regulations for the vehicle "Type - approval" procedure.

Stakeholder consultation on prototype realization

In order to discuss and organize the bus revamping prototype test, it will be necessary to organize stakeholders consultations and round tables. At these meetings will be invited, national bodies representatives, Chambers of Commerce, academic institutions, Public Transport Companies, suppliers of electric motors, battery pack, reduction gear and battery charger, transformation kit producers, waste treatment companies, vehicles transformation operators.

The consultation will be the moment for creating a business partnership agreement contract in order to realize the prototype.

The action will take place in Piedmont Region, Emilia-Romagna Region, Veneto Region, Friuli Venezia Giulia Region and City of Torino will participate with personnel for stakeholders consultations.

The action will last from March 2017 to September 2018.

Reasons why this action is necessary:

This study is necessary to determine the cost benefit analysis related diesel buses revamping and to draw up an estimated cost involved in that plan in order to decrease the emission (PM, CO, HC, NOx) and reduce the carbon footprint of the diesel vehicles.

Constraints and assumptions:

Not applicable

Expected results (quantitative information when possible):

- Detailed Costs of Material necessary to create Prototype
- List of co-design suppliers to be involved in the Prototype realization
- List of self components available on market
- Definition of Responsibility assignment Matrix (RASI) between Public Transport Services Company, engineering provider and co-design partners
- Technical description for each component/system
- 3D powertrain packaging studies
- 3D definition powertrain frame support
- Computer Aided Engineering CAE Analysis.

Cost estimation:

The following costs have been considered:

- Personnel (permanent and additional staff)
- External assistance costs for Prototype Feasibility study
- Cost of renting the rooms where stakeholders meetings will be organized
- Catering and printing of materials for stakeholders consultation
- Travel and subsistence costs for the project meetings and for external speakers.

Deliverables:

- Prototype Feasibility study on the specific bus identified by the Public Transport Services (30/09/2018).

Milestones:

- Provisional award of public tender (30/06/2017);
- Identification of test bus (30/09/2017);
- Business partnership agreement contract (30/09/2018).

ACTION C.11: Rationalization of short-range freight logistics in urban and extra/peri-urban areas

Beneficiary responsible for implementation: Emilia-Romagna Region (coordinator)

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.2.5 p. 117 "Le azioni per una gestione sostenibile delle merci"
Piedmont	L.r. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)
Veneto	Par. 6.2.8 "Interventi sul trasporto merci e multi modalità", Actions A8.1, A8.2, A8.4, A8.5 p. 306
Friuli Venezia Giulia	Ch. 7 "Le azioni del Piano" – Par. 7.1.2 "Misure riguardanti il settore dei trasporti", p. 425-428

Description (what, how, where and when):

The action aims to develop two different targets:

- A) Rationalization of short-range freight logistics in urban areas (city centre);
- B) Rationalization of extra-urban and peri-urban short-range freight logistics, therefore has been divided in two sub-actions.

Sub-action C.11.1 - Rationalization of freight distribution in the city centre

The management and regulation of freight transport in urban areas is an important issue that needs to be addressed by Sustainable Urban Mobility Plan.

The aim of the action is to inquire freight supply, distribution and logistics in the city centre in order to identify actual inefficiencies in urban logistics, optimise freight movements to and from the city and assess the real need of loading bays.

The project will run a set of surveys to collect more information and details on the issue, in order to implement a new freight delivery plan and regulation.

The surveys are also useful for enquiring the actual fleet accessing to city centres. In fact Urban Mobility Plans and Air quality plans usually regulate the access to Limited Traffic Zones (LTZ) setting the time slots and the type of duty vehicles. Usually they also foreseen a gradual tightening of limitations in the years that presumably could lead to a renewal of the fleet.

The project will be based on consumers and operators surveys, LTZ access data mining and data analysis.

- 1) Survey on transport and delivery of goods in the city centre of Bologna and Turin in order to build an organic information framework of freight transport.

The study should determine:

- a) area under study;
 - b) type of goods and/or supply chain to be surveyed;
 - c) information on the types and amount of businesses in the area, including large distribution, and classification of existing structures;
 - d) the incidence of goods type and the supply chain of belonging (dispatcher, trucker and receiver);
 - e) identification of the type of logistics operators, such as own account "OA" and third-party logistics "3PL" and the incidence of own account;
 - f) detection of the composition of the fleet by type of vehicle and emission class;
 - g) investigation of the regulations on access and on loading and unloading areas, or any other regulatory constraints.
- 2) Definition of most critical aspects and of the consequent actions/regulations aimed at reducing the impact of logistics and freight delivery optimization through synergies between operators and development of a joint participation logistic model for urban areas.
 - 3) Eventually application of the model in a pilot study.

A video will be made with the aim of spreading the action's results (foreseen and realized within Action E2).

Communication on the action results will be held during the public conferences of the project, as reported in action E1.

The action will take place in: Bologna Municipality, Turin Municipality, Veneto Region.
The action will last from April 2017 to September 2020.

Sub-action C.11.2 - Rationalization of extra-urban short-range freight logistics

In the case of extra-urban and peri-urban short-range freight the transport flows are generated by business-to-business (B2B) relations that feed different production cycles. On the other hand the case of urban freight distribution addresses the services sector and the retail chains. These two worlds are completely different but both are served by two types of logistics operators: "OA" – own account transport and "3PL" – 3rd party logistics providers. The fact that the 3PL is mainly focused on the "parcel" segment makes it not functional to serve different B2B industrial cycles, which are characterized by different shapes and handling needs than those that a "3PL" can serve. Consequently, the "OA" is the only logistic service that is capable of serving the extra-urban and peri-urban short-range freight. Based on the mapping of industrial areas and of the mix of products to be handled a study is going to be made, with the aim of designing the supply model and identify innovative technologies (loading/unloading & space saver technologies) which are functional to manage mix of products exchanged among industrial areas. At the same time, the study intends to identify public policies suitable to stimulate private investments on this market segment.

The action will be developed in the following steps:

1. Mapping the industrial and craft areas affected by extra-urban short-range freight;
2. Mapping the interested products mix and supply chains;
3. Design of handling units and on-board space saver technologies for different products and fleets;
4. Design of loading/unloading technologies;
5. Definition of the new logistic service model and of the business model that will support the implementation;
6. Definition of public policies functional to stimulate private investment on a rich and extensive potential market where, at the present time, there are not any specialized existing supply models.

Communication on the action results will be held during the public conferences of the project, as reported in action E1.

The action will take place in: Emilia-Romagna Region, Piedmont Region. Friuli Venezia Giulia Region will participate to meetings and sharing of results.

The action will last from July 2017 to December 2020.

Reasons why this action is necessary:

Air emissions from freight transport is a criticality all over the Po Valley, especially in most larger cities, and significantly contribute to the overall emissions from transports in urban and peri-urban areas. Sustainable Urban Mobility Plans need therefore to cope with the improvement of efficiency and cost-effectiveness of the transportations of goods, as well as of people, in urban and peri-urban areas. In urban areas the project aims at optimizing short range goods delivery, reducing mileage and applying good practices to achieve an environmental friendly approach to freight management.

Northern Italy shows a significant dispersion of industrial and productive areas that are characterized by the presence of industrial and manufacturing enterprises belonging to an interrelated and wide variety of products and supply chains (automotive, fashion, agro-food processing, etc..). A large number of manufacturing zones are located in hilly areas that are generally interconnected to industrial areas located nearby large and middle towns of Northern Italy. Short-range freight transport presents a strong environmental impact, deriving from the intensity of the transport flows, their dis-optimization and consequent pollution and congestion.

Unlike the case of city logistic, intervention policies on extra-urban and peri-urban short-range freight cannot be of normative nature (as access restrictions and regulation), therefore it is necessary to define accompanying policies.

So, on one hand, it is necessary to define a new supply model for industrial areas (concerning transport and logistics, as well as extended enterprises organizational models)

and, on the other, to create an appropriate system of public policies that could stimulate private investments on a rich and extensive potential market in which, under the present conditions, there is not any specialized existing supply model.

Constraints and assumptions

Operators might show reluctance to collaborate since they could see the project as a threat to their activities.

Willingness of associations/operators to subscribe agreements with Public bodies for a shared commitment to a sustainable management of freight distribution.

Expected results (quantitative information when possible):

Sub-action C.11.1

- 1 Survey on city centre freight logistic for each partner;
- Development of one or more innovative logistic models for urban areas and for companies and operators that can handle fragmented deliveries on short range distances and with restrained load weight trucks, in order to reduce freight transport mileage;
- At least 1 pilot study of the model;
- Agreement among Municipality of Bologna and local trade and transport associations for a shared commitment to implement the best measures for an optimized goods delivery system.

Sub-action C.11.2

- 1 Survey on extra-urban freight logistic for each partner area;
- Identification of innovative solutions for trucks constructions and for loading/unloading of goods: definition of onboard equipment (space-saver-technology) and for loading and unloading, that can handle goods characterized by diversified weights, shape, volume and loads;
- Agreement among Region and operators involved in the project that commits operators to apply the model of distribution of goods for at least some years.

Given that nearly half of freight trips are with empty loads, the reduction of these distances through optimisation of loadings and paths could lead to a decrease of driven vehicle kilometres with duty vehicles of about 15%.

Cost estimation:

The following costs have been considered:

- Personnel (permanent and additional staff);
- External assistance costs for surveys and management model development;
- Equipment costs for sensors, On Board Units (OBU) and onboard equipment for space-saving-technology;
- Travel and subsistence costs for the project meetings;
- Consumables for events and conferences.

Deliverables:

For each participant:

- 1 report on the survey in urban area and on the management/regulation model (31/12/2020);
- 1 report on the survey in extra-urban area and on the management model application (31/12/2020).

Milestones:

- Public tender for the surveys (30/04/2018);
- Public tender for the management model (31/10/2018);
- Agreements subscriptions (31/12/2020);
- Implementation of the urban freight model as pilot study (30/04/2020).

ACTION C.12: Development of ICT tools for public transport users

Beneficiary responsible for implementation: Emilia-Romagna Region

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	ch. 9.2.3.6 p. 111 "Sviluppo dell'ITS e di progetti di infomobilità"
Piedmont	l.r. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)
Veneto	Par. 6.2.7 "Interventi sul trasporto passeggeri", action A7.10, p. 296

Description (what, how, where and when):

An important goal of the Local Governments is to have a good public transport network, but if they really want to address mobility demand they also need a good Infomobility service that allows people to know how to move and when to use collective mobility.

The easiest way to obtain this target is to have an application for a dynamic planner that shows in real time:

- all the necessary information about mobility offer (to choose/prefer collective mobility);
- the congestion level on the journey path;
- a planning tool able to show the available possibilities of collective mobility options to reach the desired destination depending on the real time traffic fluxes.

The proposed Project aims at designing and developing a new **multi-modal “open” and integrated journey planning tool** for public transport services at regional level via web and App.

The framework is entirely based on open source paradigm.

The new service is expected to be fully delivered in Emilia-Romagna Region and partially delivered in the other Regions, according to the public transport data set that will be available and compatibly with the existing local Infomobility service.

The action will take place in: Emilia-Romagna Region, Veneto Region, Piedmont Region and Friuli Venezia Giulia Region.

The action will last from February 2019 to September 2022.

Reasons why this action is necessary:

One of the main task of every Public Administrations is, nowadays, to reduce traffic and pollution especially in urban areas; the easiest way to reach this target is to reduce individual mobility and give citizens the opportunity to move and reach their desired destination by means of collective mobility services.

This action is intended to better reach the objective of mobility modal shift towards collective mobility in order to reduce congestion in large (multi-regional) areas thanks to a **mobile app** developed with these basic concepts.

Constraints and assumptions

The technical risk is related to the difficulty of collecting data on traffic fluxes, journey paths, timetables, etc. from transport agencies and to reach an agreement on the technical protocols for the data (publication in open data of Transport Agencies information on public transport) and for the software system.

Expected results (quantitative information when possible):

To foster citizens' choices at using collective mobility options with the support of an easy and reliable tool (mobile app) and therefore helping reducing traffic and pollutant emissions resulting by the individual use of private vehicles.

Benefits from ITS technology application have been evaluated through experiences in Europe and USA in a reduction of pollutants emissions about of 10%, of energy consumption of 12% and of travel time of 20% (ref. “Piano di Azione Nazionale sui Sistemi Intelligenti di Trasporto (ITS) April 2013).

Cost estimation:

The following type of costs have been considered:

- Personnel (permanent and additional staff);
- External assistance costs for designing and developing the multi-modal “open” and integrated journey planning tool;
- Travel and subsistence costs for the project meetings.

Deliverables:

Mobile and web app (30/09/2022).

Milestones:

- Data collection (30/04/2021);
- Agreement on the data protocol and on the specifications of the open-source multimodal trip planning software system (30/09/2022).

ACTION C.13: Actions in support of electric mobility

Beneficiary responsible for implementation: Piedmont Region

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.2.4.1 p. 114 "Promozione dell'utilizzo di veicoli elettrici"
Lombardy	Ch. 2.4.2.1 p. 84 "Trasporto stradale"; Ch. 3.5.1.1 p. 116-118 "Trasporto privato"; Attach. 3 p. 93
Piedmont	L.R. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)
Veneto	Par. 6.2.7 "Interventi sul trasporto passeggeri", action A7.7, p. 295
Friuli Venezia Giulia	Ch. 7 "Le azioni del Piano" – Par. 7.1.2 "Misure riguardanti il settore dei trasporti", p. 425-428

Description (what, how, where and when):

The aim of this action is to collaborate with and inform public and private stakeholders in order to enhance the diffusion of electric mobility, also at policy level. It foresees courses (addressed to local administrators, professionals and mobility managers), consultations and studies. To this end three activities will be carried out:

1. Course on sustainable mobility.

Such course will address mobility managers of selected private companies, professionals of the local transport companies and local administrators of the Regions involved in the project. The aim is to inform them on the advantages that electro mobility could bring to their companies, bodies and to the environment as a whole.

The course will be divided into several modules that cover legislative, managerial, social, environmental and technical aspects of the mobility issue. Furthermore it will provide examples of best practice in Europe.

Competent institution, with proved expertise in the field of education and dissemination on electric and sustainable mobility, will carry out the course.

The course will last one full day and will be performed in 4 companies/bodies every year for 4 years. E-learning participation will be also available (webinar).

A certification for participants to the training activities will be released.

2. Stakeholder consultation concerning electric mobility issues

Stakeholders' consultations help to make electric mobility policy making transparent, well targeted and coherent. Consultations will be based on evidence, experiences and views of those affected by the policies and involved in their implementation: industrial actors, academic institutions, energy providers and land planners and national bodies involved.

The results of the above mentioned consultation will be taken into consideration in policy implementation (of new policies, financial programmes, legislative proposals).

3. Study on electric mobility implementation area

Electric mobility diffusion may be applied successfully to some particular domains. This study will be committed in order to analyse and identify those domains in relation to vocation of determined territories (such as tourist destinations or routes) or particular needs (last mile freight logistics, Public Transportation services in urban areas...)

Main stakeholders to be involved in these activities are: the regional and local administrators, the managers of local public transport, industrial actors, academic institutions, energy providers and land planners and national bodies.

The action will take place in: Piedmont Region, Emilia-Romagna Region, Lombardy Region, Veneto Region, Friuli Venezia Giulia.

Piedmont Region will be in charge of the overall coordination.

The task of planning training modules will be contracting to external assistance with proven experience in the sector.

The Province of Trento will take part only in the activity 2 concerning the stakeholder consultation and 3 about the study on electric mobility implementation area.

Lombardy Region will take part only in the activity 2 concerning the stakeholder consultation.

FLA will support Piedmont Region to involve Lombard public and private stakeholders in the Stakeholders' consultations. FLA will give a wide dissemination of the results and activities of this action in order to enhance the diffusion of electric mobility in Lombardy Region. FLA will use its different communication tools as the website, mailing-list, newsletter etc.

The action will last from July 2017 to September 2022.

Reasons why this action is necessary:

In compliance with EU Directive 2014/94, on December 2014 the PNIRE - Piano Nazionale Infrastrutturale per la ricarica dei veicoli elettrici (National Plan for EV Charging Infrastructure) has been published which provides national targets and supporting actions for the development of the market as regards alternative fuels, in close cooperation with regional and local authorities and with the industry concerned, in order to minimise dependence on oil and mitigating the environmental impact of transport.

The project will implement a campaign for electro-mobility and enhance existing policies and strategies, in order to improve air quality. Furthermore, the regional health and air quality strategy for "Po Valley" will benefit from this project. All Italian Regions and Autonomous Provinces are engaged in this policy which seeks support of Electro-mobility as one of the tools for meeting pollutant reduction targets.

Furthermore, the project will prepare for expected future transport flows, as well as enabling all modes of transport to be decarbonised through transition to innovative low carbon and energy-efficient transport technologies, while optimising safety.

Constraints and assumptions

The diffusion of electric mobility is prevented from the still high costs of vehicles and the insufficient charging stations network.

Expected results (quantitative information when possible):

The expected results are:

- 25/50 people per course will be informed and trained on sustainable and electric mobility (total n. of people involved depends on the number of courses that are going to be realized). At least 4 courses for each project participant, except for Lombardy.
- implementation of new policies, financial programmes, legislative proposals
- partnership building.

It's expected that the implementation of this action would favour a further increase of the target in electric mobility (vehicles, bikes and motorbikes) foreseen in the Air Quality Plans.

Cost estimation:

The following type of costs have been considered:

- Personnel (permanent and additional staff);
- External assistance for services related to courses on electric mobility;
- Consumables for materials for training courses on electric mobility and catering for conferences;
- Other costs for travel and subsistence costs for speakers.

Deliverables:

- Materials for courses (31/07/2018);
- 1 report on the survey (30/09/2022);
- Set of new policies, financial programmes, legislative proposals to enhance electric mobility (30/09/2022).

Milestones:

- Provisional award of public tender (31/01/2018);

Definition of electro-mobility strategy at level of PO Valley (30/09/2022).

ACTION C.14: Training on Eco-driving

Beneficiary responsible for implementation: Piedmont Region

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.2.6 p. 119 "Utilizzo ottimale dei veicoli: Eco-driving"
Piedmont	l.r. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)
Veneto	Par. 6.2.11 " Misure a carattere scientifico, conoscitivo, informativo, educativo", Action B5.3, p. 325

Description (what, how, where and when):

The driving style denoted as "Eco-Driving" can help reducing fuel consumption and vehicle emissions that are largely affected by drivers behaviour. This action, addressed to busses, taxi drivers and driving schools (trainers and beginners), is aimed at:

- raising awareness in drivers and transport services companies on the techniques and the practice of eco-driving issues, that enable to practice a safer, less expensive and more sustainable driving behaviour;
- achieving a significant reduction in fuel consumption (between 10 and 15 % per year) and, proportionally, a decrease of CO₂ emissions too;
- strengthening transport services companies' role in sustainable mobility policies.

This action will be implemented with the following activities:

- eco-driving lessons programme structured both at theoretical and practical level;
- development and adoption of technological solutions able to supervise and assist drivers with their eco driving performances;
- Integration of eco-driving in driving school curricula and driving tests.

A certification for participants to the training activities will be released.

Eco-driving with the target of reducing pollutant emissions only partly coincides with fuel-saving driving behaviour. For instance the common fuel-saving low-rev driving in urban areas can be counterproductive and cause higher pollutant emissions. It is therefore important also to identify the relationship between driving behaviour for fuel-saving and low pollutant emissions for different vehicle classes. The activity will be designed and carried out in cooperation with drivers' associations, driving schools' representatives at the chamber of commerce and the responsible federal ministry.

The action comprises the following implementation elements:

- Study on relationship between driving behaviour for fuel-saving and for low pollutant emissions for different vehicle classes;
- Elaboration of an eco-driving training concept in cooperation with stakeholders like the national drivers association and driving schools.

The action will take place in: Piedmont Region, Emilia-Romagna Region, Veneto Region. Friuli Venezia Giulia Region will participate to meetings and sharing of results.

The action will last from July 2017 to September 2022.

Reasons why this action is necessary:

This action is intended to encourage Eco-driving awareness, techniques and practice in order to maximize on-road fuel economy of vehicles and decrease CO₂ and air pollutants emissions.

It needs to be analysed which driving behaviour corresponds to the target of energy-efficiency as well as to the target to reducing pollutant emissions. The targeted person groups need capacity building in terms of know-how on techniques, information on the interrelation of the personal driving style, energy efficiency and emission, and last but not least by own experience. It is expected that, once convinced by the advantages of eco-driving, they become multipliers for this driving style. This action as well intends to strengthen transport services stakeholders role in sustainable mobility policies

Constraints and assumptions

The integration of the targeted eco-driving training concept in existing training schedules for the different driver groups (post-PREPAIR activity) needs to be coordinated with various stakeholders, like national drivers association, driving schools and education institutions.

Expected results (quantitative information when possible):

Educating of thousands of drivers according to eco-driving standards and the adoption of eco-driving techniques by public busses and taxi drivers.

The study on the impact of driving behaviour on both fuel saving and pollutant emissions will allow an estimation of the effect of eco-driving trainings on the reduction of air pollutant emissions as soon as they will be integrated in compulsory driving training schedules for the different driver groups (eco-driving training is a post-PREPAIR activity).

A significant reduction in CO₂ emissions (5-10% less fuel consumption of participants of eco-driving courses) to be measured with technological devices fixed on public busses and taxis.

Cost estimation:

The following costs have been considered:

- for the coordination of the action the average cost/day x n° days of personnel (permanent and additional staff);
- external assistance for the study and the training concept elaboration;
- external assistance for the technological devices and courses;
- travel costs for the necessary project meetings.

Deliverables:

- Study on impact of driving behaviour on fuel saving and pollutant emissions (31/07/2017);
- Final report about the training experience (30/09/2022).

Milestones:

- Provisional award of public tender (31/01/2018);
- Training concept elaboration (30/04/2018).

ACTION C.15: Training and support services to industries aimed at improving energy efficiency

Beneficiary responsible for implementation: Emilia-Romagna Region

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.3.4.3 "Misure di efficientamento nel settore industriale
Piedmont	l.r. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)
Veneto	Par. 6.2.6 "Interventi di riconversione del patrimonio edilizio in funzione del risparmio energetico", Action A6.9
Friuli Venezia Giulia	Ch. 7 "Le azioni del Piano" – Par. 7.1.2 "Misure riguardanti il settore dell'energia", p. 428-431

Description (what, how, where and when):

Air Quality Plans define measures in the industrial sector aimed at increasing energy efficiency in productive activities, since the total final energy consumption in the industrial sector accounts for 25% of total EU28 final energy consumption (1,103,813 kTOE) in 2013. This theme has been developed at European level, including the Energy Efficiency Directive (EED), EU ETS directive, Ecodesign Framework Directive, and the Industrial Emissions Directive (IED). Furthermore, sector-specific policies have to be taken into account, where relevant.

With this action PREPAIR aims at improving the compliance of European directives through the implementation of available existing tools and best techniques.

One of the objectives of the action is to increase the technical knowledge of the companies' staff, included energy managers of SMEs (Small Medium Enterprises).

The project aims to carry out, through the collaboration of associations and of local enterprises in the Po Basin and with the support of specialized technical consultants (firms, research institutes), a survey of productive activities, in order to identify their main needs and specificities and the sectors mainly potentially involved in the fulfilment of energy efficiency regulations. The survey will select the techniques that are best suited to the involved areas and that are most effective in promoting both energy efficiency and emissions reduction of atmospheric pollutants. At the same time the applicability of those techniques will be assessed.

A video will be made with the aim of spreading the action's results (foreseen and realized within Action E2).

The action will be developed in the following steps:

- Selection of case-studies and their detailed analysis;
- Quantitative assessment of the expected benefits in terms of reduction of air pollutant emissions (PM and its precursors, including Nox);
- Development of thematic guidelines (like "mini Brefs"), concerning methods of assessment of the level of efficiency and identifying the actions required to increase it using the available free tools on self evaluating and comparative analysis, and the criteria for applying certain techniques;
- Events related to specific aspects (i.e Introduction of energy management inside the manufacturing company, support to adoption of ISO 50.001 certification schemes by companies; innovative solution for reduction of energy consumption, energy performance contracts and third party financing scheme in the manufacturing sectors);
- Workshops with the business system to support the concrete application of measures for the implementation of the energy efficiency BRef and other measures identified, and the development of technical and managerial tools with the possibility of procedural simplification. The participants will receive a certificate of attendance to the workshop.

The stakeholders involved will be:

- Manufacturing Industries;

- Manufacturing enterprises association (food and agriculture, engineering, electromechanical, electrical, plastic, etc.);
- Consulting companies or research institutes or land development agencies;
- Associations between organizations that produce and sell components, assemblies and systems with the declared energy efficiency;
- Chambers of commerce and UNIONCAMERE.

The action will take place in: Emilia-Romagna Region, Piedmont Region, Veneto Region, Province of Trento, Friuli Venezia Giulia Region.

The action will last from March 2018 to December 2020.

Reasons why this action is necessary:

Combustion processes are one of the causes of air pollution in the target area, especially for NOx and PM emissions as well as their precursors. Therefore, energy efficiency is a target objective of the AQ plans aiming at reducing the use of fuels.

The Legislative Decree July 4, 2014, n. 102, transposition of the directive 2012/27/UE on energy efficiency, establishes the energy audit for big or energy-intensive companies; it also provides a fund for energy efficiency together with a call for proposal for co-financing the programs presented by the regions to encourage energy audits in SMEs or adoption of management systems according to ISO 50001 (15 million per year) in SMEs.

Constraints and assumptions

The issues that can affect the attainment of the objectives and / or constitute a risk can be summarized mainly in:

- Availability of organizations to adhere to the project;
- Credibility of consultants;
- Bureaucratic obstacles;
- Crisis liquidity of companies that invest only on the core business leaving out all the possible benefits to the boundary.

Expected results (quantitative information when possible):

10 workshops; identification of areas in which greater energy efficiency improvements are feasible (identifying priorities for assistance), assistance to the implementation of the actions identified in the "Energy Check Up" and consequent follow up of the firm.

The expected benefits are:

- Improved energy efficiency in industrial processes: between 15 and 20% of reduction of the current costs for electric consumption through interventions on electric motors (introductions high efficiency motors, improving efficiency compressed air systems, pumping, ventilation etc.);
- Improved energy efficiency in industrial buildings: between 3 and 5% of reduction of the current costs of interventions with thermal insulation, heating and air conditioning systems, lighting systems and interventions of "building automation";
- Advantages deriving from the application of cogeneration and trigeneration (quantified evaluations are not possible at the moment).

In general a reduction of 3-5% of thermal consumptions would correspond to an equal percent reduction of emissions in industrial sector.

Cost estimation:

The following costs have been considered:

- For the coordination of the action the average cost/day x n° days of personnel (permanent and additional staff);
- External assistance;
- Travel costs for the necessary project meetings;
- Consumables for workshops materials.

Deliverables:

- Report on case studies of productive activities, in order to identify their main needs and specificities and the sectors potentially involved in the fulfilment of energy efficiency regulations (31/07/2019);
- Thematic guidelines (like "mini Brefs"), concerning methods of assessment of the level of efficiency and identifying the actions required to increase it, and the criteria for applying certain techniques (31/12/2020);
- Final report about the training experience (31/12/2020).

Milestones

- Realization of the survey on productive activities, in order to identify their main needs and specificities and the sectors potentially involved in the fulfilment of energy efficiency regulations (31/07/2019);
- Open call for expression of interest to workshops (31/10/2019).

ACTION C.16: NEAR ZERO ENERGY BUILDINGS

Beneficiary responsible for implementation: Autonomous Province of Trento

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.3.4.1 p. 128 "Misure per la riqualificazione energetica"
Lombardy	Ch. 3.5.2 p.125-131 "Sorgenti stazionarie ed uso razionale dell'energia"; Attach. 3 p. 28, 29
Piedmont	I.r. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)
Veneto	Par. 6.2.6 "Interventi di riconversione del patrimonio edilizio in funzione del risparmio energetico", Action A6.2
Trento	Alc 1, p.102, "Incentivazione al risparmio energetico nel settore edilizio"
Friuli Venezia Giulia	Ch. 7 "Le azioni del Piano" – Par. 7.1.2 "Misure riguardanti il settore dell'energia", p. 428-431

Description (what, how, where and when):

According to the European Directive 2010/31/UE by the 31st of December 2020 every new building and deep renovation will have to be built following the "Near zero energy building" target.

The aim of this project is to develop professional expertises for an holistic approach to building works, specifically oriented to multi-family houses, involving all actors usually into the building chain. Case studies and a final workshop will establish a practical approach and will offer to participants tools for their working life.

The Autonomous Province of Trento, with the involvement of local associations, promoted, through european projects and FESR funds, the realisation of a number of training courses on energy efficiency, environmental sustainability, developing instruments, models and methodologies oriented not only to the formation of technical expertises but also to the creation of an integrated approach.

The valuable results of the European Alpine Space Programme Project ENERBUILD highlight the importance of following objectives of high specialised professional integration about energy retrofit of multi-ownership buildings. PREPair intends to continue the experience of ENERBUILD through activities divided into three phases:

PHASE 1

Share, review and update of the format already experienced in ENERBUILD with project partners and co-designing the training program, to be realized in all territories involved.

PHASE 2

Editions: 4 editions (Year II, III, IV, V Project).

The course is for: architects, engineers, surveyors, craftsmen, service administrators.

Course duration: 56 hours.

Number of participants for issue: 20 participants between designers and artisans, 10 condominium managers.

The participants will receive a certificate of attendance, if at least the 75% of the lessons are attended.

In principle, the path of the format will be based on the following modules:

- background and integration principles for building NZEB;
- knowledge and architectural typological: sanitation building wrap;
- knowledge and heating plant: rehabilitation of facilities and renewable energy;
- compliance and tax incentives for energy redevelopment projects;
- energy audit;
- organization and quotation;
- redevelopment and energy law condominium;
- workshop.

STEP 3

The Autonomous Province of Trento coordinates an overall assessment, a comparison of the results, and appropriate dissemination.

Meetings will be organized with the partners in the synthesis, in addition to what is foreseen in Action E2.

The route will be done in all provinces and project partner regions.

The Autonomous Province of Trento and the other partners will organize operational coordination moments from all project partners to share the training model (STEP 1).

The first year will be dedicated to the development of the training format and the coordination between the stakeholders involved and the project partners, who wish to complete this action.

One issue per year for four years for each regional / provincial partners. The final year will be devoted to the final evaluation of the results with the involvement of all partners.

The action will take place in: Province of Trento, Emilia-Romagna Region, Veneto Region, Piedmont Region, Friuli Venezia Giulia Region.

Lombardy Region will participate with personnel involved in project meetings and sharing information.

A conference will be organized with the aim of presenting the action's results (foreseen and realized within Action E2).

A video will be made with the aim of spreading the action's results (foreseen and realized within Action E2).

A site visit will be arranged with the aim of developing the action's capacity building (foreseen and realized within Action E2).

The action will last from July 2017 to March 2022.

Reasons why this action is necessary:

Buildings account for 40% of final energy consumption and about a quarter of the direct greenhouse gas emissions. The buildings have huge potential for their efficiency: about 75% of the EU building stock is inefficient and more than two thirds of the existing buildings will be in use in 2050. In fact, only a small portion is upgraded every year. Specifically, the condominiums are the most promising ones from a technical point of view. In this area includes the national and local policies that promote, through various regulatory and financial measures, restoration and redevelopment. Design and build a building "Near zero energy" is completely different from the current building practice, which requires a perfect knowledge of the buildings physics and a perfect mastery of the construction and installation of all construction and plant components. In recent years it has been increasingly highlighted as integrated planning is critical to ensure the achievement of the ambitious energy and environmental goals set by European policies to combat climate change. This consideration is even more important when considering interventions on existing buildings, built to design principles and plant no longer adequate to ensure high energy performance and environmental sustainability. Recovery and redevelopment in fact require to compete with numerous constraints of a regulatory nature, architectural and plant engineering. Only an integrated team of experienced professionals can identify ways to optimize the result in respect of all the imposed constraints. Therefore it is essential to provide specific training to enable those involved in the construction process to act in a qualified and integrated way, by relating to condominium administrators managing a large part of existing homes.

Constraints and assumptions:

- Delays or administrative problems in entrusting the assignment of planning the training format;
- delays or administrative problems in entrusting the assignment of training;
- lack of participation of some partners in the preparatory meetings, necessary in order to define a common and shared training format;
- lack of participations of the professionals expected to be involved in the trainings.

Expected results (quantitative information when possible):

- Sharing and testing the training format, with a view to further spread even in areas that are currently not included in the project partnership;
- Formation of 30 professionals for each course realized, for a total of at least 120 participants per partner that activates the course.

Cost estimation:

Different methodologies have been used to estimate the costs.

The action has been divided into smaller activities in order to quantify more precisely the amount of work to be done and the number of working-days necessary. The budget for the personnel has been quantified as [number of days*average cost/day], divided into permanent staff and temporary staff.

The external assistance refers to the initial organization (in the Coordinator's budget) and to the implementation of the training courses (in each Region's budget). The effort of planning the training have been quantified as [number of days*average cost/day] and the lectures as [number of training hours*average cost/hour].

Travel and subsistence costs have been estimated for meetings into the project area within partners involved for action development.

The coordinator will assume the costs regarding the definition of a common training format (external assistance) and the overall coordination, monitoring and evaluation (temporary staff).

Each partner will assume at least the costs of personnel, in order to contribute sharing ideas and experiences in this field. According to each territory's needs, each partner will implement a different number of course editions.

Deliverables:

- Training format (30/04/2018);
- reports years II, III, IV, V;
- final report about the training experience (31/03/2022).

Milestones:

- Launch of the first training course (Phase 1, 31/07/2018).

ACTION C.17: Support to local authorities for energy saving initiatives in public buildings and for the enhancement of GPP

Beneficiary responsible for implementation: Emilia-Romagna Region

<i>Region/Province</i>	<i>References in Air Quality Plan</i>
Emilia-Romagna	Ch. 9.6 p. 162 "Acquisti verdi nelle pubbliche amministrazioni"
Piedmont	L.R. 7 aprile 2000, n. 43, art. 7 (B.U. 12 aprile 2000, 2° supplemento al numero 15, p. 5,6)

Description (what, how, where and when):

European Community policies in terms of energy efficiency define a lot of ambitious goals and supply a number of incentives and initiatives for its achievement.

The action aims to support local authorities with technical support and information on access to finance and investment opportunities. This action intends to strengthen the capacity building among public officers in local governments, increasing skills in particular on energy savings and GPP (Green Public Procurement)..

Such action is divided in two parts:

1. Sub-action C.17.1 Support to local authorities for energy saving in public buildings
2. Sub-action C.17.2 Promotion of GPP and support to local authorities.

Sub-action C.17.1 - Support to local authorities for energy saving in public buildings

The task aims at the opening of a regional information point in support of the local authorities, that will be tasked to collect and disseminate information on funding opportunities for energy efficiency measures in public buildings, to support in the elaboration and deal of Energy Performance Contracts with private investors and third party financing investment schemes (ESCO's model) and in the management of the contracts along its implementation period.

The information point will assume a role of a technical and administrative support to local authorities (i.e. to office building managers or municipal building managers) for defining and implementing the best actions for public estate refurbishment and for accessing and managing structural funds and financial instruments such as public-private partnership.

The technical experts of each territory involved will periodically meet for an update on the state of the structural funds financing and valuating strengths and weakness of the energy saving in public buildings.

Workshops and focus points will be organized in order to train municipalities' officers on these specific issues, so as to increase the capacity building on the use of technical and financial instruments for maximizing energy savings and economic benefits for local communities.

The action will be developed through the following tasks:

- Creation of a regional information point, with skilled staff.
- Workshops aimed to study and develop forms and innovative ways to design projects and their realization through the appropriate forms of financing (like concession agreements and energy performance Contracts - EPC), providing information and skills on energy contracts, on elaboration and management of related technical and financial issues in the short and long term.
- Focus groups on specific themes.

High skilled personnel will teach the classes: personnel is in charge of the Municipal Environmental Center (Bologna Ambiente Comune - BAC) and of the "Showroom Energia e Ambiente", an institution which promotes mitigation activities against global warming between citizens, schools and associations (www.comune.bologna.it/showroom).

"Showroom Energia e Ambiente" will carry out also the involvement of all grades of schools, including the project topics into the activities to be carried out in schools as part of their training. A certificate of attendance to participants will be released.

The action will take place in: Emilia-Romagna Region, Piedmont Region, Veneto Region, Friuli Venezia Giulia Region, Trento Province, Municipality of Bologna.

The action will last from July 2017 to March 2022.

Reasons why this action is necessary:

In the recent years several measures have been undertaken to test the use of Energy Performance Contract and third part financing investment schemes (ESCOs' model) in local administrations' buildings and public street lightning, according to EU directives.

EPC schemes are quite complicated to be managed, because they are based on financial and technical basis, often not so well understood by public officers, requiring competences in several fields uncommonly to be found in small municipal communities. In particular the clauses of closure of the EPC contract can contain "hidden" long term costs for public authorities shifted at the end of the contract period that sometime can vanish the saving achieved in the initial part of EPC operation. Furthermore, EPC contracts foresee that municipality adopt specific practices and procedure to achieve their energy saving targets that, if not correctly implemented, may vanish the economic benefit or create over costs in the medium long term.

Constraints and assumptions

Recruitment of staff, specialized both on financial and technical issues related to energy savings constructions projects in public buildings.

Expected results (quantitative information when possible):

- 1 Regional information point (supporting structure) for each Region
- At least 2 workshop per year (3 years) in Emilia Romagna, Veneto, Piedmont and Friuli Regions
- 4 focus groups in two years in Municipality of Bologna

Cost estimation:

The following costs have been considered:

- For the coordination of the action and regional information point establishment, the average cost/day x n° days of personnel (permanent and additional staff);
- External assistance for the implementation of workshops and focus groups;
- Travel costs for the necessary project meetings;
- Equipment for the regional information point (such as hardware, printer, etc.);
- Consumables as educational materials and sample kits for focus groups and workshops (i.e. solar panels, electric circuits) and informative material of the regional point;
- Other costs for travel expenses of experts.

Deliverables:

Workshops/focus groups materials (contents to be defined in collaboration among participating partners) available to institution members for further dissemination (31/03/2022).

Milestones:

- Creation of a working group with the local authorities experts (28/02/2018)
- Establishment of the regional information point (30/04/2018).

Sub-action C.17.2 - Promotion of GPP and support to local authorities.

The aim of this task is to increase the GPP approach into the local authorities and to improve the "green" quality of goods and services available in the regions involved in the project.

This action will be carried out through two different types of interventions: local workshops and eLearning training activities.

This action must include:

- a) workshops for the diffusion of the GPP approach between local bodies and enterprises at the local level, also through exchange of experiences and difficulties (how to apply the CAM contents into call text, how to increase the green enterprises at the local level in order to fulfil the GPP approach);

- b) training activities for the personnel of local bodies, also through the e-learning tools (already available from the Action Plan for the environmental sustainability of public consumption in Emilia-Romagna and its upgrading). The already existing e-learning tools are an online course on GPP (available at the following link: <http://www.self-pa.net/moodle/pubblica-amministrazione/> - Italian only) and the Intercent-ER Platform, which manages the contracts for services and products purchased by the public administration (available at the following link: <http://intercenter.regione.emilia-romagna.it/> - Italian only). The contents of the training courses will be the new minimum environmental criteria - CAMs (especially those that have an impact on air quality), the procedure to make a green public call, monitoring, accountability and communication of the green public calls data. Training courses will deliver a certification of participation.

The action will take place in: Emilia-Romagna Region, Veneto Region, Piedmont Region, Friuli Venezia Giulia Region, Trento Province.

The workshops will be organized at the local level in each region involved in the project .

A conference will be organized by the Province of Trento on the whole C17 action results (task 1 and task 2) and will be developed within action E2.

The action will last from July 2017 to April 2021.

Reasons why this action is necessary:

The European Union gives a very important role to GPP policy so to increase the low carbon economy strategy and the green economy. Considering that Public Procurements represent about the 17% of GDP at the European level, it's clear that if a large number of local authorities will increase the percentage of GPP in their purchase there could be a big change.

In addition, the Italian parliament has approved a National Law (L. 221/2015) that makes the GPP approach mandatory for all Public Administration.

Constraints and assumptions

A possible low participation to the workshops could reduce the effectiveness of the capacity building of the action.

Expected results (quantitative information when possible):

At least 1 workshops per year for each partner.

To involve a high number of local authorities' personnel into the training course and to develop two additional e-learning modules in addition to the three available by Emilia Romagna Region.

A monitoring system implemented in all regions involved in the project.

An evaluation in terms of emissions reduction is not possible for this type of action.

Cost estimation:

- For the coordination of the action the average cost/day x n° days of personnel (permanent and additional staff);
- External assistance for the implementation of courses regarding GPP and for development of e-learning modules;
- Travel costs for project meeting, workshops and dissemination activities;
- Consumables for materials in support of GPP training.

Deliverables:

- Report on the results and impact of the Workshop organized (30/04/2021);
- A report on the monitoring system implemented and quantitative results of the monitoring activities performed (30/04/2021);
- One new e-learning GPP module, on specific CAM that have effects on air quality (31/10/2019).

Milestones:

- Sharing of the training package contents with partners (30/04/2018).

D. Monitoring of the impact of the project actions (obligatory)

ACTION D.1: Periodical collection of the measures already planned for the environmental reporting of measures' implementation through the environmental accountability system

Beneficiary responsible for implementation: ERVET

Description (what, how, where and when):

This action represents the operative part resulting from the using of the tool created within Action A.2 (and probably integrated within action C.1). The people in charge of the monitoring of the measures foreseen in the Air Quality Plans and in PREPAIR will fill in the fields foreseen by the tool and periodically check the state of implementation of the measures and effectiveness of the actions.

In order to facilitate a correct use of the tool, ERVET will be in charge of training activities. ERVET will also guarantee a help desk service.

This action is connected to action A.2 thus it will also be implemented in the whole project area.

This action will start in July 2018 and will last until March 2023.

Reasons why this action is necessary:

The continuous monitoring of the measures' and actions' implementation is strictly connected to the realization of the Air Quality Plans.

Constraints and assumptions:

It is assumed that all the administrations in charge for implementing the Air Quality action plans will compile at least every year the report about the realization of the actions.

Expected results (quantitative information when possible):

Report and dataset for each partner involved containing the status of realization of the planned actions (quantitative indicators compiled).

Cost estimation:

For the periodical updating of the dataset and for training activities included the help desk, the average cost/day x n° days of internal personnel has been considered.

Expenses related to the printing of the report and the meeting have been considered consumables.

Deliverables:

- Report on accountability system of the measures' implementation and their effectiveness (31/03/2023).

Milestones:

- Training for the people in charge of the monitoring of the Air Quality Plans (31/08/2018 -31/01/2019);
- One meeting about the environmental accountability and functioning of the tool (31/03/2019);
- Periodical updating dataset (December of every year from 2018 until 2022).

ACTION D.2: Periodic update of emission data

Beneficiary responsible for implementation: ARPA Lombardy

Description (what, how, where and when):

An improved quality emission inventory on Po basin will be built considering local emission sources contributions as developed by local compilers, a Po basin evaluation on road traffic and biomass burning emissions. The activities finalized to provide a common traffic flow and residential wood heating consumption estimated on a coherent and homogeneous methodology, D.3 and D.4, will be the base of the estimation of road transport and wood heating emissions on Po basin. The remaining diffuse sources will undergo an extensive analysis in order to identify and quantify possible divergences between regional inventories as defined in action C.2.

The present action will provide a periodic update of emission data according data flow exchange protocol stated in A.1 and C.2 actions and input data will be provided by partners: ARPA Lombardy, Arpa Emilia-Romagna, ARPA Piedmont, ARPA Veneto, Trento Province, APPA Bolzano, ARPA Friuli Venezia Giulia, ARPA Valle d'Aosta.

These data will be merged with results from the currently used emission inventory and provided by Slovenia.

Periodic emission scenarios on Po Valley evaluation will be provided on the base of the update of data as measures indicators (action D.1), emission inventories (A.1 and update date), future trends analysis etc.) also in collaboration with other actions D.5.

Action starts in April 2018 and ends in December 2022.

Reasons why this action is necessary:

This action will use emission inventories data to monitor whether the concrete actions planned and implemented in the project are being effective in reducing the emissions, by the tool developed in C.2 and C.3.

As stated in the experience in the development of regional emission inventories the most discontinuities can affect more some sources than others. The flow of vehicles moving in defined road links is used for calculating road traffic emissions. The similarity of vehicle flows with fluid dynamic of liquids suggests an integrated approach defined on Po basin in order to overcome the possible discontinuities between different regions.

Biomass burning in small domestic appliances is a key source not only of PM in the emission inventories. The development of surveys on a sampling design defined on Po basin would overcome difficulties in synchronizing results based on different sampling schemes and period.

Constraints and assumptions:

Update and availability of emission data about diffuse, line and local emission sources as airports, ports, large plants will be provided by regions to allow data analysis.

Expected results (quantitative information when possible):

- Common run for emissions estimates on traffic flow diagram and residential wood heating on Po Valley.
- Preparation of an updated emission dataset for the target area by merging the improved emission dataset on Po Valley and results from the currently used emission inventory by Slovenia.
- Updated emission scenarios on Po valley.

Cost estimation:

The following costs have been considered:

- Personnel (permanent and additional staff);

- External assistance costs for tool maintenance and/or scientific and technical support for update dataset.

Deliverables:

- report on emission dataset (31/12/2020);
- report on emission dataset (31/12/2022).

Milestones:

- implementation of the emission dataset on Po Valley and Slovenia (31/07/2020);
- update emission dataset on Po Valley and Slovenia (31/07/2021);
- update emission scenarios and comparison with previous estimation on Po Valley (31/07/2021);
- update emission dataset on Po Valley and Slovenia (31/07/2022).

ACTION D.3: Residential wood consumption estimation in the Po Valley

Beneficiary responsible for implementation: ARPA Veneto

Description (what, how, where and when):

Data on the consumption of woody biomass in the Po Basin (or Po Valley) were obtained between 2009 and 2013 from a set of household wood use Region-level and Province-level surveys.

Since residential wood-heating emissions resulting from the previous mentioned surveys represented one of the most relevant emission source of PM in the Po Basin's regions and provinces, a comprehensive update of wood consumption, burning appliances distribution, types of wood and wood-burning practices is needed.

These data are necessary to estimate the emissions due to residential wood combustion and consequently to update the atmospheric emission inventory at Po Basin level (Action D.2 "Periodic update of emission data"), through the tool implemented by Action C.2 ("Tool for improved emission inventory on Po basin and emission data warehouse").

In order to gain this comprehensive reference framework of household wood consumption in the Po Basin, in synergy with Action C.8 ("Analysis of the logistics of consumption and supply of woody biomass") the action intends to develop and implement one estimating methodology, reproducible over time, bringing together different approaches such as:

- realization of a survey on the use of woody biomass in the residential sector at Po Basin-level (including the territory covered by the regions Valle D'Aosta, Piedmont, Lombardy, Veneto, Friuli Venezia Giulia and Emilia-Romagna and the provinces of Trento and Bolzano), taking into account feed backs from previous national (ISPRA and ISTAT), regional and provincial surveys;
- assessment of a domestic heating consumption balance, accounting the amount and composition of energy consumption and the household's energy demand.

A conference on this action's results will be organized (see Action E.2).

The action will last from July 2018 to January 2020.

Reasons why this action is necessary:

Provide a reference framework, at Po Basin level, of residential woody biomass consumption and home-heating appliances, not only to estimate atmospheric emissions from this sector, but also to promote adequate policies to improve air quality.

Constraints and assumptions:

Availability, in due time and at Po Basin level, of data on:

- structural characteristics of housing, type of heating appliances and fuels;
- existing regional/provincial home-heating appliances registers.

Expected results (quantitative information when possible):

Estimation of wood consumption of home-heating plants and of the most used domestic appliances at province level, with particular focus in the main large cities included in Po Basin.

Implementation of a domestic heating consumption balance, accounting the amount and composition of energy consumption (including the results of the woody biomass consumption survey).

This energy balance will include harmonization and comparison with other available data, also mentioned in "Constraints and assumptions":

- Other national surveys on energy consumption in domestic heating (es. ISTAT, ENEA);
- Census on households and surfaces (ISTAT);
- Domestic heaters registers;
- Information on CHP (combined heat and power) and district heating;
- Municipal level of natural gas distribution and presence of other type on energy network;

- Regional energy balances and transboundary energy fluxes;
- Previous surveys on biomass.

Cost estimation:

The following costs have been considered:

- Personnel (permanent and temporary staff);
- External assistance;
- Other costs (publication).

The cost estimation of external assistance concerns the execution of the survey on the use of woody biomass for domestic heating in the Po Basin and the development of domestic heating consumption balance. Costs have been estimated considering the average cost of previous regional surveys. Personnel costs of permanent staff have been estimated considering an average daily rate per partner and the n. of working days.

Deliverables:

- n. 1 report and complete dataset (surveys data, metadata and results) on the use of woody biomass and appliances share at province level with particular focus in the main large cities for domestic heating in the Po Basin, including the territory covered by the regions Valle D'Aosta, Piedmont, Lombardy, Veneto, Friuli Venezia Giulia and Emilia-Romagna and the provinces of Bolzano and Trento (by 31/07/2019);
- n. 1 domestic heating consumption balance as in "expected results" in the household heating sector at Po Basin scale (by 31/01/2020).

Milestones:

- public tender for survey realization (30/09/2018);
- arrangement of the survey questionnaires (31/12/2018);
- public tender for the external assistance for the development of domestic heating consumption balance (31/01/2019);
- elaboration of filled questionnaires (31/05/2019);
- final collection of energy balance data (31/07/2019).

ACTION D.4: Traffic flow estimation in the Po Valley

Beneficiary responsible for implementation: ARPA Piedmont

Description (what, how, where and when):

The objective of this action is to apply a traffic model over the whole Po Basin, reconstructing vehicular flows on a common road network in order to quantify traffic emissions in the context of regional inventories.

Actually flow data are estimated in different regions/provinces of the Po Basin using several methodologies (different complexity of traffic network, different levels of arc description, different systems to count vehicle passages).

In order to provide a common knowledge base as well as to have vehicular flows on road network over the whole Po Basin coming from the same methodology, the action intends to establish a common approach for assignment of vehicular flows, concerning the following activities:

- realization of a common graph of the road network reproducing the same level of complexity and characterization over the whole Po Basin, starting from commercial road network or, alternatively, merging regional graphs already used by the Regions/Provinces of the Po Basin;
- collection and organization in a common database of all available traffic flow detections (from Italian partners), included cross-border flows (from Slovenia), at hourly basis if possible and using the maximum detail in the classification of vehicles;
- creation of a new O/D¹ matrix to estimate movements of people and goods, by means of specific surveys and previous studies;
- implementation of a common traffic flow assignment methodology: the application of assignment modelling system must provide hourly flows and speed data for each road link (arc level) and for each different types of vehicle;
- focus on “transit traffic”, with evaluation of vehicle fleet effectively in circulation, instead of the merge of regional fleets coming from statistic representations currently used for regional emission inventories.
- further periodic updates of traffic flows provided by traffic assignment model, if compatible with the interest periods.

The participants at the action will be: ARPA Valle d'Aosta, ARPA Lombardia, ARPAE Emilia-Romagna, Trento Province, ARPA Veneto, ARPA Friuli Venezia Giulia, Slovenia.

The action will last from July 2018 to December 2022.

Reasons why this action is necessary:

Provide a reference and coherent traffic database at Po Basin level to estimate atmospheric emissions from this sector, overcoming current criticalities of local discontinuities and methodological differences.

Constraints and assumptions:

- Availability of commercial road networks or regional graphs already used by the individual Regions/Provinces;
- Availability of traffic detections or traffic flows in the area of interest.

Expected results (quantitative information when possible):

Evaluation – with a common and reproducible methodology - of traffic flows and their qualitative composition in the Po Basin in order to improve the estimated contribution of transport emissions on the whole area.

Cost estimation:

The following costs have been estimated:

- Personnel (permanent and additional staff);

¹ O/D = Origin/Destination

- External assistance (considering the average expenditure for this kind of activity) costs to develop – by a professional company with consolidated experience in the transport modelling – a common graph of the road network over the whole Po Basin, collection and organization of all available traffic flow detections, implementation of a common traffic flow assignment methodology.

Deliverables:

- n. 1 dataset of collected data (graphs, traffic detections, traffic flows) (31/07/2019);
- n. 1 report about collected data and starting framework (31/01/2020);
- n. 1 dataset (metadata and results) of traffic flows assigned on common graph of road network (31/01/2020);
- n. 1 report about assignment methodology, final results and their analysis (31/07/2020);
- at least an update of traffic flows provided by traffic assignment model and the related report (31/12/2022).

Milestones:

- realization of the dataset of collected data (graphs, traffic detections, traffic flows) (31/07/2019);
- realization of the dataset of traffic flows assigned on common graph of road network (31/01/2020);
- at least an update of traffic flows assigned on common graph of road network (31/07/2022).

ACTION D.5: Regular Assessment (monthly/yearly) of the air quality

Beneficiary responsible for implementation: Arpae Emilia-Romagna and ARPA Piedmont

Description (what, how, where and when):

The main objective of this action is to assess the effectiveness of PREPAIR concrete actions on air quality in Po Valley. The trans-boundary effects of the Po valley air quality plans on the Slovenia target area will be also evaluated. For the Po Valley target area the assessment will take into account both pollutant concentrations and population exposure, and it will be continuously updated throughout the project. For the Slovenia Target area the assessment will take into account the pollutant concentrations. This action will examine PM10, PM2.5, nitrogen dioxide and ozone, which are the pollutants whose values more frequently exceed legislation thresholds, and for which monitoring networks and expertise are more consolidated; some of the other pollutants will be evaluated in action D6. Results shall be applicable in the whole target area, not only to specific locations where measurements are available. The assessment will take into account the confounding effect of meteorological variability. Details about methodology will be defined considering the results of the preparatory actions A. Generally speaking, two complementary approaches will be used:

- the data fusion technique implemented in action C.1, which combines air quality modelling and observations, will be implemented on a regular basis for Po Valley. Air quality and population exposure estimates will be produced monthly (mainly for communication purposes), and a more detailed report will be issued every year. For Slovenia, air quality assessment will be based mainly on models results, and the applicability of data fusion techniques will be evaluated;
- the RIAT+ integrated model, implemented in action C.3, will be used to assess the effects on air quality of concrete actions C.4-C.17 For Po Valley. Actual emission estimated during the project in actions D.1-D.4 will be used as input, and results will be compared with expected values defined in action A.3. If needed, explicit air quality model simulations will be performed to further refine the estimate of expected compliance level. For Slovenia the applicability of the integrated model approach will be evaluated.

If the planned actions turned out to be insufficient to fulfill air quality legislation requirements, a new strategy will have to be adopted in the phase 2 of the project: the allocation of resources to the concrete actions could be changed, and additional actions could be promoted. In this case, updated emission inventories (from action D.2) and assessments of the application of concrete actions (from actions D.1 and D.6) will be used to precisely define the causes of the problem, RIAT+ will then be used to design the most cost-efficient strategy in Po Valley.

The action will be performed during the phase 2 and 3 of the project.

Province of Bolzano will participate as stakeholder.

Reasons why this action is necessary:

This action is the main monitoring action of the project: it will use observed data to verify whether the concrete actions planned and implemented in the project are being effective in reducing the concentrations of the most important air pollutants. If necessary, it will also provide a fundamental tool to design the required adjustments to concrete actions.

Moreover, this action will also provide a clear and synthetic view on the state of air quality in Po Valley and Slovenia, that can be very helpful in raising awareness on the issue of air quality.

Finally, this action will finalize the outputs of several PREPAIR actions, exploiting their results and making them available for communication.

Constraints and assumptions:

This action, either directly or indirectly, depends on outputs from several PREPAIR actions: it uses directly the air quality modelling systems results and data fusion methodologies

developed in action C.1 and the integrated model assessment implemented in action C.3, but it also relies on the emission inventory (action A.1) and on the assessment of emission reduction during the project (actions C.2, C.5, D.1, D.2, D.3 and D.4).

Inter-annual meteorological variability is expected to have an effect on observed concentrations: air quality models and meteorological data will be used to take into account this confounding effect, and an estimate of the related uncertainty will be produced.

It is assumed that the data sharing infrastructure, the air quality modelling systems (action C.1) and the RIAT+ integrated assessment model (action C.3) have been implemented and are ready for operational and on-demand runs. Each partner involved should ensure the data availability on the data sharing infrastructure. Appropriate documentation and technical assistance will be provided to the partners in order to facilitate the data sharing. Partners have a long experience in air quality assessment by models and monitoring data, moreover expert professionals (permanent and additional staff) assisted by external expertise will be dedicated to the activities.

The assessment reports will be realized by different tools in Po Valley and Slovenia, but will contain the same type of information. A common format will be defined and specific meetings for defining the reporting format and to share and compare results obtained for Po Valley and Slovenia will be organized.

Expected results (quantitative information when possible):

Action D.5 will deliver periodic reports during the second phase of the IP. The main outputs will be:

- Annual assessment reports and related datasets about the air quality concentration levels in the Po valley and Slovenia (regular production starting from year 2020);
- Annual assessment reports and related datasets about the population exposure in the Po valley (regular production starting from year 2020);
- Automated monthly reports about air quality in the Po Valley (regular production starting from January 2020);
- Reports about the cost-effectiveness analysis and corrective measures (if needed).

Cost estimation:

The costs have been estimated considering the maintenance cost of the data sharing infrastructure and modeling activities (external assistance), the travel for meetings and discussions with Italian partners (Slovenia). Personnel cost of permanent and additional staff are estimated considering, for each partner, an average daily rate and the number of working days.

Deliverables:

- N. 3 annual assessment reports and related datasets about the air quality levels and population exposure (30/04/2021, 30//04/2022, 30/04/2023);
- up to two reports about the cost-effectiveness analysis in the Po Valley (31/01/2022 and 31/01/2023).

Milestones:

- start up meeting for defining the reporting format (Po Valley and Slovenia) (30/11/2019);
- meeting to share and compare results obtained for Po Valley and Slovenia (30/04/2022.)

ACTION D.6: Monitoring the environmental effects of pollutants reduction measures implemented by air quality improvement plans

Beneficiary responsible for implementation: ARPA Lombardy

Description (what, how, where and when):

Executions of routine sampling in the special stations network defined in action A.4. Analysis of samplings. Collection and elaboration of data. Elaboration of the results with statistical and source apportionment techniques to identified the evolution of the contributions of the different sources related to the actions implemented.

The measurements will be conducted on a routinely base. The analysis of the results will be done periodically on an yearly base.

In the second phase of the project will be evaluated the possibility to conduct also specific intensive additional campaigns to measure other specific tracers not collected on a routinely base, as defined in action A.4.

This action involves ARPAE Emilia-Romagna, ARPA Piedmont ARPA Veneto, Arpa Valle d'Aosta, Arpa Friuli Venezia Giulia and Slovenian Environment Agency.

Action starts in January 2018 and ends in March 2023.

Reasons why this action is necessary:

As described in action A.4, to monitor adequately the results of air quality plans it is important to monitor not only the concentrations of conventional pollutants but also the tracers of the different sources. The continue measurements of specific tracers in particularly related to PM composition will permit to follow the evolution in the sources not limited to estimates based on the emissions.

Constraints and assumptions:

Expected results (quantitative information when possible):

- Active Supersite network with a DB with more than 2000 samples data every year.
- Source apportionment study with biannual periodicity.

Cost estimation:

The type of costs estimated are the following ones:

- equipment for measures (analysers and sequential PM samplers)
- consumable materials for sampling and analysis for 4 years indicated for 5 hypothetical sampling sites with full temporal coverage and 3 with 2 months coverage, with on the whole 2000 analysis every year: filters, ovens for EC/OC, XRF and IC standards, laboratory glassware and accessories (pipettes, syringes..), detectors, IC columns
- samplers maintenance
- personnel costs (for collecting samples and for analysis)
- shipping (transferring) samples
- travelling costs (meeting internal to project and to participate to international meeting of experts in the field).

Deliverables:

- DB of measurements, populated on a regular base after the first year (31/03/2019; 31/03/2020; 31/03/2021; 31/03/2022)
- 1 report about the source apportionment of PM (and of other pollutants when possible) (30/04/2021)
- 1 final report about the source apportionment of PM (and of other pollutants when possible) (31/03/2023).

Milestones:

- Measurements starting after 1 year (15/01/2018)
- Periodical updating dataset (31/03 of every year from 2018 until 2021).

E. Public awareness and dissemination of results (obligatory)

ACTION E.1: Information and awareness raising activities

Beneficiary responsible for implementation: ERVET

Description (what, how, where and when):

The action aim is to promote and disseminate the results of each action at a local, national and international level. LIFE Logo shall always appear on all documents realized, on the website and on other project outcomes disseminated.

This aim will be pursued using different tools and methods, fitting different targets.

E.1.1 Website

A project website will be set up within 6 months from the start of LIFE PREPAIR. It will be made in Italian and English with the main sections translated also in Slovenian language and will be kept and updated for at least 5 years after the end of project. The website will contain a description of the project and its aim and actions. All project deliverables and results will be published on the website; it will be updated periodically throughout the progress of PREPAIR, including all information related to communication events. The hit rate on the website will be monitored in order to see how well it is used.

In the home page it will be reported that PREPAIR project is co-funded by the European Commission.

The website is the most important tool for dissemination activities and will be structured with a friendly approach towards visitors. It's a communication tool aiming at reaching a large public, so technical language will be reduced as much as possible in order to make it more understandable.

At least 1000 visits to the website per year is the target of this sub-action.

Website will be elaborated by ERVET and will be the crossroad of official document's transmissions and communications.

E.1.2 Notice boards and communication material

Notice boards describing PREPAIR project shall be displayed in strategic places accessible to the public (for examples they'll be showed in the offices of all partners involved in the project).

Notice boards will be written in English, Italian and Slovenian.

ERVET will work with the contribution of all partners to create the project logo and information material. Key dissemination materials at this stage will be the project's logotype, banner, leaflets and the roll-ups. Leaflets will describe the partnership, the objectives of the project and its main actions.

This promotional material will be used in dissemination activities will also be produced in this task. Leaflets will be distributed at projects meetings and conferences to participants and stakeholders.

Main important communication materials will be published in English, Italian and Slovenian language.

LIFE Logo will always appear on dissemination materials.

E.1.3 Public conferences and participation to thematic fairs

During the PREPAIR project 4 conferences will be held:

- Initial Conference
- 2 middle term Conferences
- Final Conference

Initial Conference: the aim of this event is to present the project to different target groups: public authorities, companies, facilities and other organizations potentially interested in the PREPAIR issues. The event will be organized in Bologna by the Emilia-Romagna Region.

The two middle term conferences in Lombardy and Veneto to present the state of the art of project; they will be organized by Lombardy Region and Veneto Region.

The Final Conference in Piedmont to show the final results of the project; it will be organized by Piedmont Region. In this occasion the layman's report will be officially distributed.

In order to foster the participation of all stakeholders, it will be possible to follow the events also in streaming.

Moreover, project partners will set communication channels with Italian/Slovenian main networks potentially interested in PREPAIR issues.

The participation to at least two thematic fairs, coordinated by ERVET, will foster the project's visibility by displaying roll-ups and notice boards with the project logo in strategic locations and distributing promotional material.

E.1.4 Layman's Report

The layman's report describing the activities and outcomes of the project will be prepared in Italian, English and Slovenian; it will be produced both on paper and electronic format at the end of the project and it will be available on the PREPAIR website. Layman's report will be published before the final conference and at least 200 copies for each partner will be printed. During the Final Conference partners will disseminate the Layman's report. Language of the document will be non-technical and clear.

E.1.5 Project communication campaign

A project communication campaign on the Po basin will be organized in order to spread the message of PREPAIR to the whole area object of the project. The main risks connected to air pollution will be highlighted in order to catch people attention on the issue and raise awareness on what will be done to increase the air quality. The campaign will have a direct, communicative and straightforward language able to catch everybody's attention. The campaign will include the creation of a slogan, the production of an advertising spot for video/radio and other promotional materials and tools to display in urban areas (public corners) and on local media.

Communication activities are necessary for the whole project's development and enhancement thus they will be applied in the whole project area.

This communication activity will last for the whole duration of the project.

Reasons why this action is necessary:

Dissemination of project results is one of the most important actions of the project and will be carried out during and after the LIFE PREPAIR project duration. EU added value could be enhanced only through a systematic and constant communication activity throughout the project.

Dissemination activities will encourage the replicability of the project and will increase the interest on the LIFE PREPAIR topics. Indeed, dissemination will inform different target groups on the air quality condition of the Po basin and Slovenia and all the measures that will be implemented with the target of increasing it.

The website is an essential tool to make project's results available to all partners as well as any interested people in a simple and non-technical way.

Notice boards and brochures are a necessary tool for communicating the project objectives and activities for they give synthetic information with a non-technical languages and they can reach any kind of public giving key information in an easy way.

Public conferences will be the occasion to present the project to different target groups and collect useful feedback.

The communication campaign will be a very useful tool for making people aware of the importance of the project's targets considering the air quality condition of the Po basin and the risks connected to pollution.

Constraints and assumptions

Risks of the dissemination activities are related to the following issues: low access rate to the website, scarce visibility of the notice boards, unclear language in the layman's report,

low participation to the conferences, difficulties in reaching national media for the communication campaign. These constraints, however, are quite low considering the partners experience in realizing information and dissemination campaigns.

To further reduce these risks, with reference to the main dissemination tools, it will be particularly paid attention to the following aspects:

The website, as it is a fundamental tool for enhancing the project visibility and for disseminating its results, will have an attractive layout and will be continuously updated. The structure will be immediate and user-friendly, considering the heterogeneity of the audience. Contents will be presented in an attractive way.

Notice boards will be synthetic, realized using a straight-forward language and placed in strategic locations. Moreover, attention will be paid to the material used for the print (waterproof, resistant etc.). Any logistical difficulties related to the installation of the panels will be avoided by "standard sizes", easily movable and easy to be placed also on pre-existing structures.

Layman's report: the difficulty to "condense" into a few pages such a complex project will be overcome by a selection of key contents, a good capacity of synthesis and the use of functional images.

The location of the conferences will be planned with geographical considerations and with the purpose of simplifying the participation to the target audience. All partners have great experiences in events organization and social networks will also be used for conferences calls.

The communication campaign will be very communicative, it will be able to attract people's attention with short yet very significant messages. The video that will be realized will be translated in English and will be displayed in strategic locations.

Expected results (quantitative information when possible):

- 1 website. At least 1,000 access per year
- 2 roll-ups per partner
- 100 notice boards per partner
- 2,000 leaflets disseminated
- 1 project's logo
- 1 project's banner
- 1 kick-off meeting (number of people expected 200 and more than 20,000 persons informed by invitation per e-mail)
- 1st middle term conference (number of people expected 200 and more than 20,000 persons informed by invitation per e-mail)
- 2nd middle term conference (number of people expected 200 and more than 20,000 persons informed by invitation per e-mail)
- 1 final conference (number of people expected 200 and more than 20,000 persons informed by invitation per e-mail)
- Participation to at least 2 thematic fairs
- 200 Layman's report per partner
- 1 project communication campaign.

Cost estimation:

Different methodologies have been used to estimate the costs, considering the different kind of outputs of this action.

For the website, the cost is connected to the external assistance for its construction and maintenance.

For the production of dissemination material (roll-ups, notice boards, leaflets, logo, banner and layman's report) the cost is related to the material costs and the costs of external services (design, printing).

For the organization of conferences and participation to fairs, involved personnel organizing each conference has been considered (average cost/day x n° days of involved personnel) plus consumables (catering, translators, etc.) and other costs.

The cost of the project communication campaign has been calculated including external assistance for the development of tools, personnel involved and other costs for the rent of public corners.

The costs for the translation of dissemination material in Slovenian are personnel costs.

Deliverables:

- Website (31/07/2017)
- Notice boards (31/07/2017)
- Project leaflets (31/07/2017)
- Roll ups (31/07/2017)
- Advertising spot for the project communication campaign (31/01/2019)
- Layman's report (31/12/2023).

Milestones:

- Launch of the website (31/07/2017)
- Launch of the project communication campaign (08/02/2019)
- Initial conference (31/07/2017)
- 1st Middle term conference (30/04/2019)
- 2nd Middle term conference (30/04/2021)
- Final conference (31/12/2023).

ACTION E.2: Development of communication actions in support of single actions

Beneficiary responsible for implementation: ERVET

Description (what, how, where and when):

An integrated project requires a common approach on all communication activities, i.e. a common language and common messages. The following actions will be conducted with the aim of homogenizing all communication campaigns of all actions with a unique language and giving a unique project message:

- One conference on results of some relevant thematic actions;
- Survey on the people perception on the quality of air in the Po basin through the “Action Research” methodology conducted both before and after the development of the project actions;
- One international conference organized in Brussels;
- Support to some actions dissemination for homogenizing them through the following tools: e-learning platform for all capacity building, training initiatives and streaming service for all public events;
- Organization of site visits for some actions;
- Journalistic support to the project through press releases and cooperation with media
- Realization of one storytelling video for some actions;
- One educational publication focused on the air quality issues, specifically targeted to citizens of the Po Basin’s regions.

The LIFE14 GIE/DE/000490 CLEAN HEAT project will be used for building up the communication activities in support of the action on biomass burning.

The E.2 action will take place in the whole area of the project and throughout its whole duration.

Reasons why this action is necessary:

All communication initiatives must be connected to the Po basin approach and its communication strategy in order to be an integrated project. The message coming out of the project must be unique, not only the realization of actions but also the communication of their outputs and of all different initiatives organized within PREPAIR must be tied together and connected between each other so to give to the project a single voice.

Constraints and assumptions

Communication campaigns might use different languages thus they might not be homogeneous, however they need to appear very similar instead, even though they treat different topics. The support to communication campaigns and the organization of conferences will overcome the risk of non-homogeneity. The national survey will be conducted on the whole Po basin and the difficulty of coordinating such an extended work will be handled by partners thanks to their experiences. Site visits will make stakeholders and interested people aware of what has been done and will help to spread the message of PREPAIR. The streaming of conferences will also allow the spread of PREPAIR messages on a larger scale and will reach all interested people who could not participate to conferences. Capacity building and training activities will be efficiently developed through the use of the e-learning platform.

Expected results (quantitative information when possible):

- 5 conferences on some actions results. In detail:
- 1 conference on results of Actions C.4 and C.5 (Emilia Romagna Region)
- 1 conference on results of Action C.16 (Province of Trento)
- 1 conference on results of Action C.17 (Province of Trento)
- 1 conference on results of Action E.3 (Lombardy Region)
- 1 conference on results of Action D.3 (ARPA Veneto)

- 5 storytelling videos. In detail:
- 1 video on Action C.11 Rationalization of short-range freight logistics in urban and extra-urban areas (Emilia-Romagna Region)
- 1 video on Action C.16 zero energy buildings (Province of Trento)
- 1 video on Action C.15 energy efficiency industries (Emilia Romagna Region)
- 1 video on Action E.3 to inform citizens on the proper use of biomass (FLA)
- 1 video on Action E.4 on electric mobility (Piedmont Region)
- 2 site visits:
- 1 site visit on Action C.16 during the conference (Province of Trento)
- 1 site visit on Action C.4 or C.5 (Emilia Romagna Region)
- 1 information campaign on results of Action C.10 (Piedmont Region)
- 2 national surveys (one before actions C and one after the end of the project)
- 1 international conference
- 1 e-learning platform
- 1 publication on air quality issues.

Cost estimation:

For the organization of conferences on results of some project's actions, involved personnel organizing each conference has been considered (average cost/day x n° days of involved personnel) plus consumables (catering, translators, etc.).

For the surveys on people perception costs refer to external assistance, costs of the personnel involved (average cost/day x n° days of involved personnel) and consumables for the printing service.

The costs for the conference in Brussels are related to personnel (average cost/day x n° days of involved personnel) plus travel, consumables and external assistance for interpreters.

The costs for the supporting tools to the conferences on actions results, such as the development of the e-learning platform, the journalistic support and the realization of storytelling videos are for the external assistance.

Costs for the educational publication are related to:

- staff (permanent and project's) dealing with the definition of technical and scientific contents and the publication's promotion strategy;
- external experts and services dealing with publication's graphic aspects and the implementation of international seminar in Brussels.

Deliverables:

- 2 reports on the results of the national surveys (30/04/2018 and 31/01/2023);
- 5 storytelling videos on results Action C11 (31/01/2021), C16 (31/08/2022), C15 (31/01/2021), E3 (31/01/2023), E4 (by 31/01/2023) 1 educational publication in digital version (31/01/2023);
- At least 11 press releases for 4 project conferences (31/07/2017, 30/04/2019, 30/04/2021, 30/04/2023) and for 5 conferences on actions results (E.3: 30/04/2018, C.16: 30/04/2018, C.4-5: 30/04/2020, D.3: 30/04/2021, C.17: 30/04/2021) plus kick off meeting (30/04/2017).

Milestones:

- Launch of the 1st survey on the people perception on the quality of air in the Po basin (31/05/2018);
- International conference in Brussels (during phase 3);
- Launch of the e-learning platform (28/02/2018);
- Launch of the 2ND survey on the people perception on the quality of air in the Po basin (28/02/2022);
- tender notice for a communication agency (for the press campaign) (30/04/2017).

ACTION E.3: Communication on the use of biomass

Beneficiary responsible for implementation: Lombardy Region

Description (what, how, where and when):

The communication action about biomass is primarily addressed to the inhabitants of the Po Valley and has as its object the theme of biomass combustion for domestic heating. These activities, aimed at improving energy efficiency and lower atmospheric emissions, intend to embrace the different profiles of the biomass issue: the features and type of biomass to be used in households; the need for a correct use of the biomass and of the plants in which it is burned; the requirement of the adequacy of domestic heating systems, properly installed, maintained by experts and recorded at the specific Registry; the possible impacts on health due to indoor pollution; aspects of home security for the risk of chimney fires.

The main tools to implement the whole activity of communication are the following:

- 1) a preliminary survey will be carried on among the territories involved in the IP about the activities already done in the past years for communication on the issue of biomass;
- 2) *ad hoc* publications on specific websites;
- 3) moments of broad public dissemination, characterised by “dissemination events” to be fitted and proposed on a regional scale and in the territory of Po Valley.

These cycles of meetings will be implemented in the territories of the municipalities more involved with the problem of burning wood, with meetings open for the population.

ARPA Lombardy will support the action E.3 in these specific activity of public dissemination events on the Lombardy territory.

These public moments will be organised in the winter periods, more afflicted by the use of biomass in the domestic plants.

The campaign will be developed with the support of communication activities and tools of action E.2 coordinated by ERVET. In particular:

- 1) a specific press campaign characterised by wide visibility and impacts. One of the main elements will be the creation of a video designed to inform citizens on the proper use of biomass (see Action E.2);
- 2) a conference will be organized in parallel with the development of the specific press campaign (see Action E.2).

The campaign will be designed to inform people about how to properly use biomass for energy and in particular on the proper handling of small household wood heating devices to protect human health and environment. In particular the following key issues will be addressed:

- Use and maintenance of small domestic wood plants;
- Stoves and boilers: features and certifications, also on the basis of the new national law on this issue;
- Regulatory obligations to be met;
- What types of biomass can be burned in the house: cost, availability, environmental benefits;
- How to recognize the pellet's quality;
- Advantages and limitations of biomass in comparison with conventional fuels.

Key stakeholders are: institutions of local government and environment and health monitoring and controlling; environmental bodies; business associations; school system; citizenship; trade associations and with the producers of the combustion plants.

A second aspect which will be declined with the different means of communication proposed, is that of the dissemination of knowledge about the elements of the current regulations relating to biomass. This aspect thus provides a stakeholder engagement, such as combustion plant producers, managers of supply chains (wood, pellets..) and home users. The main aim is correctly convey the message and the cogency of sector regulations – of national and / or regional level - in order to make it effectively implemented and to highlight the best practices in the sector.

For instance, the national law about the certification of the biomass combustion plants for domestic heating is one of the theme that will be treated.

FLA (Fondazione Lombardia per l'Ambiente) will support Lombardy Region to start up and maintain an active communication strategy, an e-mail list will be created with constant information on the project, issued at the different stakeholders at local, national and international level; and with the creation of the video on biomass.

The activities will take place in Lombardy and on the territories of the other partners involved, with a particular attention to the territories of the municipalities more involved with the problem of burning wood. All partners will replicate the moments of broad public dissemination in its territory, will support the press campaign through its local media and will help to spread the deliverables.

The whole action will last 5 years and three months, starting in September 2017 and finishing in December 2022, with more activities during the winter seasons.

Reasons why this action is necessary:

The purpose of this action is at least threefold:

- 1) to promote better and wider knowledge of the problems and the opportunities related to the topic of biomass combustion for domestic heating;
- 2) to promote the correct choices regarding the use and purchase of residential heating plants as well as the proper installation and maintenance of those appliances;
- 3) to support the transition of the users towards best technology plants with benefits in terms of greater energy efficiency and of less pollutant emissions, and the transition from the use of the wood log to the pellet.

According to data from the European Environment Agency dust emissions per unit of fuel from a pellet stove are equal to 10% compared to those of a modern wood stove; to this must be added the increased energy efficiency of appliances using pellet. In this perspective, even if these appliances don't meet emission standards of other fuels such as natural gas, the replacement of the logs with pellets would allow a emission reduction from the combustion of woody biomass by more than 90%.

Constraints and assumptions

In general terms, the more critical aspect debating about the theme biomass as fuel for domestic heating is of cultural profile: a sort of social objection to accept scientific data that underline the criticality and the impact of the wood when is burned.

The need for action on increasing the level of awareness and information on the subject is born specifically from the need to tackle the cultural biases in the environmental field. Therefore, a communication action so broad and capillary goes in that direction.

A second element to face when debating about biomass combustion for domestic heating, is the need to promote coordination between policies on air quality with those against climate change, pushing on technological improvement and energy/emission efficiency of the plants. Again, initiatives of information and communication of high scientific level may help to clarify this point and to send the message also to policy-makers at all levels, from the EC to the national and local scale.

Expected results (quantitative information when possible):

By developing this action we expect to achieve greater awareness about the biomass burning and a strong shift of the choices and use of the consumers and population. This output can lead to relevant reductions of atmospheric emissions from wood burning for several pollutants, such as PM10, PM2.5, VOC and different important compound under a toxicological point of view as dioxins and polycyclic aromatic hydrocarbons. These results can contribute to the improvement of air quality in the Po basin for those specific pollutants.

Cost estimation:

The costs are referred to personnel (average cost/day x n° days of involved personnel), travel and external assistance.

In particular, it will be advertised a public tender for the assignment to a communication agency to the following activities:

- design of the communication campaign;
- creation and management of social network web page;
- articles for local newspapers;
- two posters for local newspapers;
- *ad hoc* publications on specific websites;
- graphic development (pdf format), even with creation of infographics, of three brochures addressed to:
 - wide public;
 - students;
 - hospitals and local health agencies;
- graphic development (pdf format) of three posters;
- hospitals and local health agencies;
- graphic coordination of all products with the project PREPAIR;
- printing 150,000 brochures (for all regions participating in the project);
- printing 20.000 posters (for all regions participating to the project).

Deliverables:

- 1 survey about the activities of communication on biomass on the territories of the Po Valley (30/04/2018);
- at least 1 publication about the theme described above, published on the Partner/s websites and the specific PREPAIR website (31/12/2022);
- “dissemination events” about biomass, structured into tangible products (e.g. PDF, ppt, papers...) that can be replied and proposed for other territories (31/12/2022);
- several deliverables will be produced by the press campaign, in the mail form of brochure/publication that will be deliver by web and printed and distributed during the public moments of the campaign (31/12/2022);
- 1 mailing list for strategic stakeholders at local, national and international level (30/04/2018);

Milestones:

- definition of the working group to carry on the communication activities (survey, publications, dissemination events , etc.): 28/02/2018;
- preliminary survey about the activities of communication on biomass on the territories of the Po valley: 30/04/2018;
- tender notice for a communication agency (for the press campaign): 30/04/2018;
- launch of the campaigns and start of the public moments of dissemination: from 01/05/2018 until 31/12/2022.

ACTION E.4: Population awareness raising on electric vehicles (regional Electric Mobility Day)

Beneficiary responsible for implementation: Piedmont Region

Description (what, how, where and when):

The aim of this action is to define and implement an awareness raising campaign with a focus on electric mobility to actively engage citizens on this matter. This campaign will focus on setup regional dissemination events.

In order to raise awareness of the population on electric mobility, every year a Regional Electric Mobility Day will be organized during European Mobility Week.

The events will be planned in highly frequented visited location (city square, park, street, etc.). In order to distribute promotional materials (suitable personalized technological gadgets and various other promotional materials) will be realized information booths and videos will be shown on the issues.

The events will showcase the latest technology from the world's leading car manufacturers and will allow test-drives the newest electric vehicles. Those events will provide the opportunity to understand technology and processes involved in developing electric vehicles and the benefits of using them.

Such a campaign can be easily replicated in other cities since its easy to organize, its innovative, its fairly cheap and it creates a synergy among schools, environmental associations enabling to reach a large public.

The main tools to implement this work of communication are:

- moments of broad public dissemination, characterised by ability to do a test drive
- ad hoc publications on specific websites;
- information through social networks (facebook and twitter) and interaction with users.

The activities will take place in Piedmont and in the territories of the partners involved, A series of events have been programmed in Turin, Milan, Bologna, Trento and in Friuli Venezia Giulia and Veneto regions.

The events will be organized every year during European Mobility Week. The first event has been programmed for September 2017, the last for September 2022.

The action will start in April 2017 and will end in December 2022.

Reasons why this action is necessary:

Electric mobility is "system sustainability", that is the necessity to guarantee a sustainable transport development, aiming at reducing energy consumption, polluting emissions and negative mobility impacts on the territory.

Among the many advantages e-vehicles have today, it should be mentioned that the TCO (Total Cost of Ownership) is 5-6 time less than the TCO of a conventionally fueled vehicle.

The aim of this action is to inform citizens on electric mobility challenges and advantages. Furthermore it aims at raising the awareness of the population and thus contribute to the spread of electric mobility and to the improvement of the quality of life.

Constraints and assumptions

In general terms, the more critical aspect debating about the theme electric vehicles is of economic and cultural profile and; in fact many citizens believe this technology too expensive without assessing the impact on the environment.

The need for action on increasing the level of awareness and information on the subject is born specifically from the need to tackle the cultural biases in the environmental field. Therefore, a communication action so broad and capillary goes in that direction.

Expected results (quantitative information when possible):

- 50 stakeholder involved in square events;
- 5.000 people involved in square events per Region (1.000 people per event per 5 years);
- 100.000 people involved through website and media.

Cost estimation:

The costs are referred to personnel (average cost/day x n° days of involved personnel), travel and external assistance (square event, test drives, stands, design of dissemination products on e-mobility and other services).

Deliverables:

- Database of stakeholders and target group (31/10/2018);
- Several deliverables will be produced by the press campaign, in different forms that could be articles, posters, ads, video and radio messages etc. (31/12/2022).

Milestones:

- Public tender for press campaign (31/10/2017);
- Elaboration of tailored communication concepts for specific groups in the field of e-mobility (31/10/2018);
- Development of specific social networks page aimed to the interaction with population (31/10/2018);
- Selection of municipalities and enterprises, implementation of the concepts in the municipalities and enterprises (31/07/2022);
- Organization of some events about electrical mobility (31/12/2022).

ACTION E.5: Creation of school-targeted formal and non-formal educational paths on the air quality issues related to the Project objectives

Beneficiary responsible for implementation: FLA

Description (what, how, where and when):

The action aims at designing, testing and implementing different educational target-oriented paths addressed to awareness-raising and knowledge-strengthening in the school system (teachers and students) on the air quality issues dealt with by the project.

Under this action a formal and non-formal educational path will be developed and target-tailored for the whole Italian school system (primary school, secondary school, high school) with the aim of raising the social awareness and personal interest of the young on the main issue of air quality impacts, monitoring and control as dealt by the PREPAIR project.

The education paths will be designed through a close collaboration with selected teachers, and developed within the existing educational school programs with the goal of strengthening the interdisciplinary knowledge of air quality related issues. The educational tools and methods will be conceived to ensure their transferability and replication in the school system even after the project life.

The educational paths will be defined in strict cooperation with the partners involved in the action (Province of Trento, ARPA Veneto, Emilia-Romagna Region, Lombardy Region, Friuli Venezia Giulia Region) in such a way to make them applicable to the different local contexts. The action will be divided into three phases:

- (i) design and creation of the educational tools and paths (18 months, 2017/18);
- (ii) experimental testing in three classes (one for each school level) in all the regions/provinces involved in the action (school year 2018/2019);
- (iii) implementation of the educational activities in at least 20 classes for each of the regions/provinces involved in the action (school years 2019/2020, 2020/2021, 2021/2022).

In the first phase all the project partners will cooperate to select the contents of the training modules, as well as to adapt them to the different needs of their territories. The second and third phases will be managed directly by the partners – on the basis of their own budgets - within their respective regions with a direct support and general coordination by FLA.

Besides the preparation of teaching materials as support of the educational activities to be performed in the classroom by the teachers with the assistance of project's staff experts, the education paths will include non-formal modules based on:

- virtual blackboard and PC experiments on the topics of the emission of atmospheric pollutants by different energy sources, expected impacts on human health and ecosystems, monitoring techniques and good practices for emission reduction;
- guided on-field excursions or visits to environmental agencies facilities, monitoring stations, low-emission energy plants or systems (transport, livestock farms, biomass burning sectors).
- games and quizzes and for the younger pupils.

Between the first and second phase a trainer-addressed seminar will be held to instruct the staff experts who will join the teacher in performing the testing of the educational paths and the use of the teaching tools and to work out the best criteria for the selection of the schools to be chosen in the testing phase.

Between the second and third phase of the action another workshop will be organized to discuss thoroughly the results of the experimental phase and define guidelines and recommendations for the final implementation phase of the educational activities.

All the action activities will be disseminated within the school system and communicated to external stakeholders and the general public in strict coordination with the communication action E.2 coordinated by ERVET.

In addition, all materials developed to support the implementation of educational paths will be available for download in a specific project website's section aimed at providing teachers with appropriate instruments to carry out environmental education activities within their own school programs.

The action will start in April 2017 and will last until September 2022.

Reasons why this action is necessary:

The long-term success of the project's goals depends on the change in individual behaviours of the final energy users (customers, citizens at large) through awareness-raising and knowledge-spreading processes mainly fuelled by teachers and social communicators. To this purpose the teaching and training activities envisaged by this action are deemed to be absolutely crucial.

Constraints and assumptions

Present content gaps in the school curricular courses of scientific disciplines and a not sufficiently updated cultural background of the teachers may hinder a full and successful mastery by the students of the proposed educational materials and paths. For this reason, the project is built up on a direct involvement of teachers in all the development phases.

Expected results (quantitative information when possible):

Definition of three target-oriented educational paths with related teaching material (one for each school level) on air quality issues related to the project objectives. Testing and implementation the educational paths in about 20 classes in the Province of Trento, Lombardy, Veneto, Friuli Venezia Giulia and Emilia-Romagna Region (total about 80 classes).

Cost estimation:

Different methodologies have been used to estimate the costs, considering the different kind of outputs of this action.

For the development of the three target-oriented educational paths (for primary, secondary and high schools) the balance-sheet item is constituted by the cost of the staff to be engaged (the FLA's internal staff has a well-established experience in the development of educational projects in the environmental field). In addition, external experts will be recruited as advisers for the specific materials and tools of the educational paths (item: external expertise).

For the involvement of the schools and for the implementation of the three target-oriented educational paths in the partners' territories, the respective budget is divided between staff cost and external assistance, on the basis of expenditure needs of the different partners involved.

The budget's item named "consumables" refers to the costs of producing and supplying CDs, games, paper texts, materials for experiments.

Deliverables:

- n. 3 target-oriented teaching materials (primary, secondary, high schools): (31/10/2018);
- n. 15 reports/minutes of tests of the previous educational paths in as many classes (5 primary, 5 secondary, 5 high schools in the four regions/provinces involved) (31/10/2019).

Milestones:

- Definition of target-oriented educational paths (31/10/2018);
- School involvement (01/01/2019).

ACTION E.6: Networking with other projects

Beneficiary responsible for implementation: Emilia-Romagna Region

Description (what, how, where and when):

This action aims at identifying previous and present projects related to project issues such as air quality, energy efficiency, biomass burning, transports and many others in order to identify methodologies and tools that can be integrated and promoted within PREPAIR activities. Networking will be important in particular for sharing and capitalizing projects results, avoiding overlapping and strengthening synergies between initiatives.

In order to develop this task, partners will work on the identification of related Life projects (or project founded by other EU Programs) from the beginning of the project.

Through EU funding programs databases, partners will identify other projects that have some connections with PREPAIR.

Projects emerged from the research of European sources will be assessed by several indicators, before to contact the beneficiary; the following are some criteria for the assessment:

- project aims;
- project topics;
- fields involved;
- stakeholders involved;
- tools and methodologies implemented;
- project results.

Projects will be selected according to the usefulness and possibility of integration with the actions of PREPAIR.

The network activities will be carried out through different tools and activities. A working table will be organized for a periodical and continuous comparison with other projects dealing with the quality of air, with the representatives of the managing authorities of the structural funds and with the representatives of the Po Valley Agreement for Air Quality. This working table will allow a continuous exchange and updating on the progress of PREPAIR activities.

The networking activity concerns the whole project area. This activity will last for the whole project's duration.

Reasons why this action is necessary:

Networking with other projects is necessary for best practices, methodologies and/or valuation models might be exchanged and they might bring an added value to PREPAIR.

Constraints and assumptions

Although different projects can have similar targets, overlapping must be carefully avoided and other projects shall be "used" as complementary and mutually reinforcing towards the same target of pollution reduction.

Expected results (quantitative information when possible):

Creation of a mailing list for each scope of action of the project (agriculture, biomass, transport and energy efficiency).

Cost estimation:

Costs refer to personnel involved (average cost/day x n° days of involved personnel), travel and other costs for the involvement of other projects' representatives and meetings.

Deliverables:

- List of projects involved in networking activities (30/04/2022);
- Mailing lists (30/04/2022).

Milestones:

- Launch of the working table (31/07/2017).

F. Project Management and monitoring of project progress (obligatory)

ACTION F.1: Administrative and financial management of the project

Beneficiary responsible for implementation: Emilia-Romagna Region

Description (what, how, where and when):

Project management will be guaranteed by the coordinating beneficiary in charge of the overall coordination, financial management, monitoring evaluation and the implementation of the whole project on behalf of the associated beneficiaries.

The responsible of this action, in collaboration with all the associated beneficiaries involved, will be in charge of the following group of activities:

- Guarantee the most productive utilisation of the project budget;
- Search and solve any problem incurred during the project implementation;
- Manage the financial operations;
- Support the technical actions of the project;
- Monitoring the project time schedule;
- Submission of the reports foreseen by LIFE regulation (interim reports and final reports, together with all technical reports).

A specific task will aim at the compilation of information needed to complete the indicator tables to be submitted with the first Interim report and with the Final report, by the responsible of the action, in collaboration with all the associated beneficiaries.

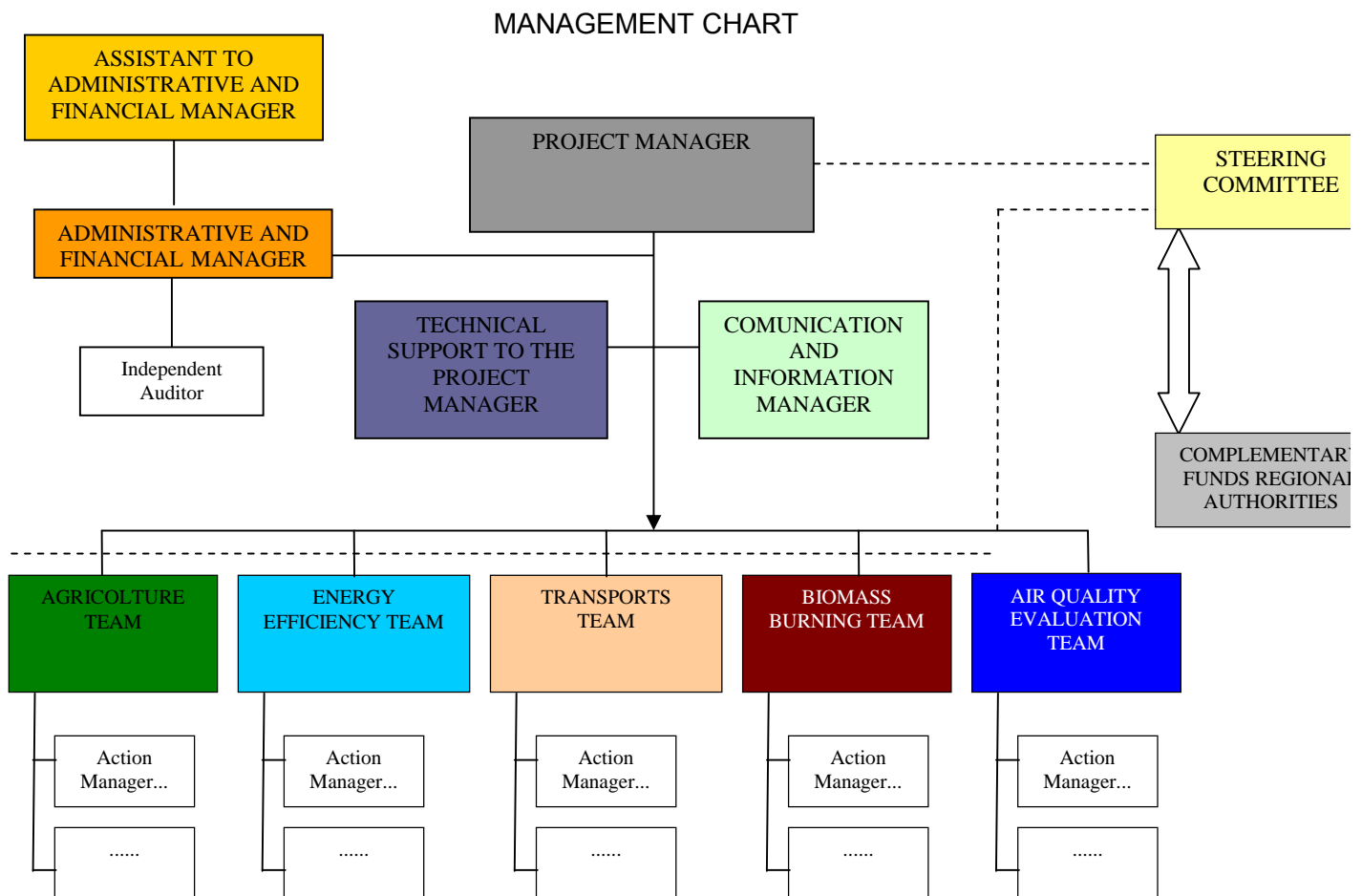
A *Steering Committee* will be set up, and it will be composed by representatives of each associated beneficiary, in charge of the strategic issues and any other decision involving all the project partners.

The coordinating beneficiary will guarantee the realization of this action through a full-time dedicated team of experts, in charge of both administrative and technical activities.

The project manager will be nominee by the General Director for Territorial and Environmental Care of Emilia-Romagna Region, with high level of skills in managing European Projects as well as a very long experience in the thematic of air pollution. The project manager will be chosen within the permanent staff of the Emilia-Romagna Region. The project manager will be assisted by an administrative coordinator with experiences in administrative and financial management of European projects.

Within the team of experts will be also other staff (additional and non additional) with a commitment to the project. Additional staff will be chosen through public procedure with specific requirements, while internal staff with specific qualifications in agriculture, biomass, energy efficiency, transports and air pollution will be assigned to the project activities with decision of the Director General for Territorial and Environmental Care of Emilia-Romagna Region.

Each associated beneficiary will set up a team dedicated to the project management with separate acts. Regular contacts with the other associated beneficiaries and with the project monitor and authorities will be kept.



The *Steering Committee* will be set up during the Kick-Off Meeting, at the beginning of the project. A Responsible for each group of actions or thematic pillar will be defined within the Steering Committee:

- Agriculture
- Biomass
- Transport
- Energy
- Air Quality Evaluation
- Management
- Communication.

The project manager will elaborate a workplan with details about the activities with their coordinators, time schedule and stakeholders involved. This workplan will be shared among the partners, and will be constantly updated (at least every three months). Moreover, within 3 months from the beginning of the project, the coordinating beneficiary will sign a partnership agreement with every associated beneficiary in which will be detailed the duties and the rights of each one.

After the signature of the Agreement, the coordinating beneficiary will claim the pre-financing of the LIFE funds, that will be distributed among the associated beneficiaries according to their own project budget. Then, according to the project phases, one or more interim payments will be requested and at the end of the project activities, the payment of the balance.

PROJECT MANAGEMENT MEETINGS

During the project duration, face to face management meetings will be organised as to discuss about the state of implementation of the project activities and, in case, talking about difficulties in the implementation of the project both for administrative and technical issues. Apart from the face-to-face meeting, Skype or video conferences will be organized by the coordinating beneficiary or according to an associated beneficiary's request.

A kick-off meeting will be held in Bologna in March 2017 after the project starting date, the Final Meeting will be held in 2023, in Turin.

The following project management meetings will be organized during the project lifetime:

Where	Hosting Beneficiary	When	
Bologna	Emilia-Romagna	I° trimester 2017	I°
Venezia	Veneto	III° trimester 2017	II°
Trento	Prov. Trento	I° trimester 2018	III°
Torino	Piemonte	III° trimester 2018	IV°
Milano	Lombardia	I° trimester 2019	V°
Bologna	Emilia-Romagna	III° trimester 2019	VI°
Milano	Lombardia	I° trimester 2020	VII°
Bologna	Emilia-Romagna	III° trimester 2020	VIII°
Venezia	Veneto	I° trimester 2021	IX°
Trento	Prov. Trento	III° trimester 2021	X°
Ljubljana	Slovenia	I° trimester 2022	XI°
Trento	Prov. Trento	III° trimester 2022	XII°
Bologna	Emilia-Romagna	I° trimester 2023	XIII°
Torino	Piemonte	IV° trimester 2023	XIV°

Strictly related to the administrative and financial management is the monitoring of the project. This part of the action will last during the entire project, and it will allow to identify any delay and/or problems during the project implementation. Monitoring of the whole project will be also assured with the implementation of the action F.3, in which *Po Basin Board* will be involved as to guarantee the sustainability of the project results even after the end of the project. According to the workplan, the Project Manager will monitor the project monthly.

According to the Grant Agreement for integrated projects, periodical reports will be submitted to the European Commission. Any delays or other problems incurred during the project implementation will have to be detailed within the reports.

Reasons why this action is necessary:

Management and coordination of the project is necessary to guarantee the achieving of the project objectives and results, complying the Grant Agreement and the common provisions.

Constraints and assumptions

- Failure and/or delays in implementing the project activities;
- Financial risks.

As to avoid the first one of the list, the coordinating beneficiary will adopt a reliable system of management, characterised by a dedicated team full-time committed to the project. In addition, the communication among the partners will be guaranteed during the whole project.

As to avoid financial risks, administrative and financial experts of the coordinating beneficiary will adopt a day-to-day management of the project, will constantly monitor the

associated beneficiaries activities and they will organize training about the project financial reporting.

Expected results (quantitative information when possible):

- 1 workplan constantly updated;
- 1 partnership agreement signed between the coordinating beneficiary and the partners;
- 1 Kick-Off meeting;
- 1 final meeting;
- N. 11 interim project management meetings;
- 1 project Steering Committee will be composed;
- N. 2 Interim reports (October 2018, October 2020);
- final report (January 2024).

Cost estimation:

The cost of the action is mainly related to the costs of personnel, permanent or additional, necessary to assure a continuous management of the project, technical, financial and administrative. The cost of the action includes also the travel costs necessary for each partner to attend project meetings and conferences.

Deliverables:

- 2 Interim Reports (31/10/2018, 31/10/2020);
- 1 Final Report (31/01//2024);
- 1 Workplan document (30/04/2017);
- Minutes of the meetings, within 30 days after the end of the meetings (30/04/2017, 31/10/2017, 30/04/2018, 31/10/2018, 30/04/2019, 31/10/2019, 30/04/2020, 31/10/2020, 30/04/2021, 31/10/2021, 30/04/2022, 31/10/2022, 30/04/2023, 31/10/2023);
- N. 15 partnership agreements (30/04/2017);
- 1 After Life Plan (31/01/2024).

Milestones:

- Setting up of the Steering Committee (30/04/2017);
- Nomination of the coordinating beneficiary experts team (30/04/2017);
- Nomination of the project experts teams and action leaders (30/04/2017);
- Signature of the Partnership Agreements (30/04/2017);
- Submission of the interim and final reports (31/10/2018, 31/10/2020, 30/04/2024).

ACTION F.2: Independent Auditing

Beneficiary responsible for implementation: Emilia-Romagna Region

Description (what, how, where and when):

The financial management of the whole project will be certified by an independent auditor, either a person with the qualification provided for by law, or an audit society.

The independent financial auditor will be in charge of the verification of the financial statements, and he will issue a certification whenever an interim payment is requested, as well as for the final cost claim.

The independent auditor will be choice with a public tender as to assure the best value for money, and the project manager will agree with the auditor the best way for the future checks.

The costs for the auditing activities, according to the LIFE guidelines, will be in charge of Emilia-Romagna Region.

Reasons why this action is necessary:

This action is mandatory, according to the guidelines of the LIFE IP.

Constraints and assumptions

None.

Expected results (quantitative information when possible):

Certifications of the accounting.

Cost estimation:

A maximum of € 100.000,00 allocated in other costs budget line.

Deliverables:

- Certification of the auditor (for interim payments 31/10/2018 and 31/10/2020; for the final balance: 30/04/2024).

Milestones:

- Grant of the contract for the auditing (31/07/2018).

ACTION F.3: Establishing the governance permanent platform

Beneficiary responsible for implementation: Emilia-Romagna Region for the implementation of the action. Lombardy Region for the link to the Po Valley Board.

Description (what, how, where and when):

The action aims to guarantee the sustainability of the project results even after the end of the project by ensuring the coordination and funding of the data sharing, modelling and monitoring infrastructures implemented and the involvement of the relevant stakeholders in so ensuring the effective implementation of the IP and more in general of the regional Air Quality Plans.

Each regional or provincial administration engaged as beneficiary of the IP will institute a “*Stakeholder board*” involving local authorities (municipalities or association of municipalities) as well as environmental and socio-economic associations.

Where already established by regional laws, as the case of Region Lombardy, the associated beneficiaries will use the existing boards ensuring that the themes addressed by the IP will be integrated in their agenda.

The *Stakeholder Boards* will be called at the beginning of the IP and following at the end of each project phase. The regional and provincial administrations will guarantee the maintenance of the *Stakeholder boards* also after the conclusion of the IP, so as to ensure the involvement of key stakeholders in the implementation of the regional Air Quality Plans. The beneficiaries will also ensure the involvement of people in charge of the management of complementary actions (mainly ERDF, EARDF, ESF) through coordination procedures existing within the administration or through new and more effective processes. To this aim, each Region/Province will ensure the coordination with the sectors in charge of other relevant policies through the institution of a project “*cross-sector working group*”, which will meet at least once a year. The activity of these groups will be considered in the “*After Life Plan*” so to maintain integration among PREPAIR results, Air Quality Plans and the other relevant policies. The implementation of the complementary actions will be monitored during the IP through a continuous and effective exchange of data, information and results with the Managing Authorities and with the Environmental Authorities that are involved in the monitoring of the Regional Operational Programmes. A common format for collecting the data by the beneficiaries involved will be elaborated at the beginning of the IP, and it will be shared among the beneficiaries in the Steering Committee. A document including the details of complementary activities implemented will be sent together with the foreseen project reports.

At the same time, the “*Po Basin Board*” will be involved within the IP, both at political and scientific level, to ensure the monitoring and facilitate the implementation of the data sharing infrastructure (Action C.1). The Board will check the state of art of action C.1 and analyse the results of the evaluating phase (Action D.5) in order to take common decisions in case of corrective actions. The Board will act in coordination with the Steering Committee (Action F1).

The Board will act on the basis of the evaluations supplied by actions D.1, D.2, D.5 and D.6, as periodical reports, so as to ensure the corrective actions in case the measures adopted by the AQPs will result not fully effective. To this aim the Board will include representatives of the environmental Agencies of the involved regions so as to ensure the durability of D related actions. The same process will be adopted beyond the end of the IP. In particular, as the monitoring activities will deliver periodic reports about the rate of implementation of concrete actions (action D.1), the emissions of pollutants (action D.2) and the state of the air quality (action D.5), that reports will be used, at the beginning of the phase 3, for checking the effectiveness of concrete actions realized by PREPAIR and AQ plans on air quality in Po Valley and Slovenia. The results of the check will be evaluated by the Steering Committee for decide about the need of further and/or corrective actions. Such actions can be assessed by the support of the Integrated assessment model RIAT+ implemented on the target area. The final check will be realized at the end of the project by

the Po Basin Board that will adopt a final report and a long term action plan in order to ensure the sustainability of the project's results after the end of PREPAIR.

Lombardy Region, that has long and recognised experience in coordinating the Po Basin regions and provinces, will be responsible for linking the IP with the Po Basin Board and with the activities foreseen in the PO Basin Agreement.

The Po Basin Board will operate also after the end of the project so as to ensure the long term sustainability of the Data Sharing Infrastructure. The Board will be called at least every year for the IP duration and will promote the participation of representatives of the Ministry for Environment in the project main meetings and conferences so as to ensure the maximum coordination between the objectives of the IP and the national targets specially referred to Directives 2008/50/CE, NEC Directive and Po Valley Agreement.

Permanent staff of the involved associated beneficiary will lead this action so as to ensure the long term sustainability of the project results.

The action includes the project phase 'evaluate lessons learnt and formulate policy recommendations': all partner regions and provinces evaluate their exchanged and transferred good practices (lessons learnt) and identify policy recommendations for updating and improving their Air Quality Plans.

The action will take place in each beneficiary's territory.

The action will start at the beginning of the IP and will last for the whole project period.

Reasons why this action is necessary:

The action is necessary to ensure the long term durability of the project and to evaluate results from Actions D in order to facilitate the implementation of the Air Quality Plans and their next updating.

Constraints and assumptions

Effective participation of relevant stakeholders in the Stakeholders Boards.

As to avoid this risk, the coordinator of the action will monitor the implementation of the Boards. The coordinator will report to the Steering Committee (F1) where corrective actions will be immediately realized in case of necessity.

Expected results (quantitative information when possible):

- Formally involvement of the Po basin Board inside the IP;
- 7 Stakeholder Boards established;
- 7 cross-sector working group established;
- At least 3 meetings of the Stakeholder Boards;
- At least 6 meetings of the Po Basin Board;
- At least 1 meeting a year of the cross sector working groups.

Cost estimation:

The costs have been estimated considering the necessary costs of personnel, permanent or additional, the travel and subsistence costs necessary for attending meetings and other costs for inviting representatives of Italian Ministry for Environment and other relevant stakeholders to the meetings.

Deliverables:

- At least one Report for each Region about the involvement of stakeholders in the implementation of Air Quality Plans containing proposals for the better involvement (30/10/2023);
- At least one Report for each Region about the lessons learnt and the policy recommendations for updating and improving their Air Quality Plans (30/10/2023);
- Report on cross sector working group meetings with the agendas, the list of participants and the minutes (31/01/2024).

- N. 1 final report and an action plan defining the long term funding of the technical tools implemented during the IP, as well as the adoption of coordinated measures at the Po Basin scale (31/01/2024).

Milestones:

- Setting up of the Stakeholder Boards (31/07/2017);
- Setting up of the cross sector working groups (31/07/2017);
- Involvement of the Po Basin Board in the IP (31/07/2017);
- Annual meetings of Po Basin Board and periodical meetings of Stakeholder Boards (30/04/2018, 30/04/2019, 30/04/2020, 30/04/2021, 30/04/2022, 30/04/2023).

DELIVERABLE, MILESTONES AND REPORTING SCHEDULE**MAIN DELIVERABLE PRODUCTS OF THE PROJECT**

Name of the Deliverable	Code of the associated action	Deadline
1 data set of emissions for the Po Valley and Slovenia	A1	31/01/2018
1 Report on data flow definition, quantification of the main divergences and procedures for their reduction	A1	31/10/2018
1 dataset of actions and measures for the Po Valley Region with indicators planned by the regional/local AQPs and by the IP itself and a Monitoring Protocol to evaluate the impact of the measures	A2	31/10/2017
a web based platform for collecting the data for the accountability of measures (to be implemented in action D1)	A2	31/07/ 2018
1 Technical handbook	A2	31/07/2018
1 Report on the expected levels for specific pollutants	A3	31/01/2019
1 Report on the assessment methodology	A3	31/01/2019
1 document defining the stations, the species and the frequency of measure and the protocols of the measures to be done continuously;	A4	30/09/2018
1 document describing the standards for collecting and organizing the data by the existing special stations	A4	30/09/2018
1 document describing the experimental protocol for realizing possible intensive experimental campaigns during the Monitoring and evaluation of the AQ plan	A4	30/09/2018
Report on the air quality modeling systems implemented in this action; these systems produce daily forecasts and near real time analysis (data fusion)	C1	30/04/2019
Software tools to produce regularly monthly and annual gridded analysis of air quality in Po Valley and Slovenia	C1	31/01/2020
Report on the use of complementary data for air quality assessment	C1	30/06/2020
Informative platform for collecting emission data	C2	31/01/2020
Interim report on the implementation of the RIAT+ in Po Valley	C3	30/04/2019
Report on the feasibility study and RIAT+ application in Slovenia	C3	30/04/2019
Final report on the implementation of the RIAT+ in Po Valley and Slovenia	C3	31/03/2020
Position paper on an agrarian system perspective to reduce ammonia emissions from fertilizers	C4	31/03/2020
Common model for the evaluation of gaseous and odour emissions in intensive rearing; model's manual user; Guidelines on "quality production brand" criteria for low emission farms	C5	31/03/2020
Final report about assessment of trainings and evaluation of the training experience	C6	31/03/2022
final report of the training experience	C7	30/09/2022

Legislative proposal to formally recognize the chimney sweep as a qualified professional figure	C7	30/09/2022
1 study related to the biomass flows relative to the entire Po basin	C8	31/10/2019
1 best practice book	C8	30/04/2020
1 Biomass Management Plan	C8	31/12/2020
report on information and recommendations on the planning of intermodal transport facilities and policies	C9	30/04/2019
modal split analysis report	C9	30/04/2020
survey on bike infrastructures availability in the main regional railway stations and in urban area	C9	31/08/2020
open data on geo-referenced bike paths and services	C9	31/10/2021
feasibility study and management of at least 1 bike-station	C9	31/08/2022
Bike-navigator	C9	30/09/2022
Prototype Feasibility study on the specific bus identified by the Public Transport Services	C10	30/09/2018
Reports on the survey in urban and extra-urban area	C11	31/12/2020
Mobile and web app	C12	30/09/2022
1 report on the survey	C13	30/09/2022
Set of new policies, financial programmes, legislative proposals to enhance electric mobility	C13	30/09/2022
Study on impact of driving behaviour on fuel saving and pollutant emissions	C14	31/07/2017
Final report about the training experience	C14	30/09/2022
Thematic guidelines (like "mini Brefs")	C15	31/12/2020
Final report about the training experience	C15	31/12/2020
Training format	C16	30/04/2018
Final report about the training experience	C16	31/03/2022
Workshops/focus groups materials	C17	31/03/2022
One new e-learning GPP module, on specific CAM that have effects on air quality	C17	31/10/2019
Report on accountability system of the measures' implementation and their effectiveness	D1	31/03/2023
Reports on emission dataset	D2	31/12/2020 and 31/12/2022
n. 1 report and complete dataset on the use of woody biomass and appliances	D3	31/07/2019
n. 1 domestic heating consumption balance	D3	31/01/2020
n. 1 dataset (metadata and results) of traffic flows assigned on common graph of road network	D4	31/01/2020
N. 3 annual assessment reports and related datasets about the air quality levels and population exposure	D5	30/04/2021 30/04/2022 30/04/2023
DB of measurements, populated on a regular base after the first year	D6	31/03/2019 31/03/2020 31/03/2021 31/03/2022

1 final report about the source apportionment of PM (and of other pollutants when possible)	D6	31/03/2023
Website	E1	31/07/2017
Advertising spot for the project communication campaign	E1	31/01/2019
Layman's report	E1	31/12/2023
2 reports on the results of the national surveys)	E2	30/04//2018 31/01/2023
1 educational publication in digital version ;	E2	31/01/2023
1 survey about the activities of communication on biomass on the territories of the Po Valley	E3	30/04//2018
n. 3 target-oriented teaching materials (primary, secondary, high schools)	E5	31/10/2018
List of projects involved in networking activities	E6	30/04/2022
1 Workplan document	F1	30/04/2017
1 After Life Plan	F1	31/01/2024
At least one Report for each Region about the involvement of stakeholders in the implementation of Air Quality Plans At least one Report for each Region about the lessons learnt and the policy recommendations for updating and improving their Air Quality Plans	F3	30/10/2023
Report on cross sector working group meetings with the agendas, the list of participants and the minutes	F3	31/1/2024
N. 1 final report and an action plan defining the long term funding of the technical tools implemented during the IP, as well as the adoption of coordinated measures at the Po Basin scale	F3	31/01/2024

MAIN MILESTONES OF THE PROJECT

Name of the Milestone	Code of the associated action	Deadline
Delivery of the dataset with the existing emission inventories in the Po Valley and Slovenia	A1	31/01/2018
Delivery of final report	A1	31/10/2018
Transferring of the dataset on the management tool	A2	31/10/2017- 31/07/2018
Preliminary evaluation of the impact of air quality local plans in Po valley	A3	31/01/2019
Preliminary evaluation of the impact of the trans-boundary effects of Po Valley air quality plans in Slovenia	A3	31/01/2019
Delivery of documents defining the stations, the species and the frequency of measure and the protocols of the measures	A4	31/07/2018
Two air quality modeling systems are run operationally by ARPAE Emilia Romagna and Slovenia; they provide	C1	31/01/2019

daily air quality analysis and forecast over a domain covering Po Valley and Slovenia		
Near real time products for communication and monthly air quality assessment start to be produced regularly in their final version	C1	30/06/2020
Delivery of the informative platform	C2	31/01/2020
Input data collection and feasibility study of RIAT+ application in Slovenia	C3	30/09/2018
CTM simulations	C3	31/07/2019
Source-receptor model development	C3	31/01/2020
Riat+ model set up	C3	31/03/2020
Establishment of a Working Group of experts and definitions of the methodology to implement the action including interchange with project partners	C5	28/02/2018
Organization of the course and definition of training format	C6	30/04/2018
Final evaluation of the training done through meetings with stakeholders	C6	31/03/2022
Establishment of a public registry of recognized professionals	C7	31/01/2019
Data recovery by partners	C8	31/10/2018
Production of a "Safe Routes to school" manual	C9	31/01/2020
Creation of low-speed zones	C9	31/12/2020
Projects development for recovery and reuse of abandoned bicycles	C9	31/08/2022
Business partnership agreement contract	C10	30/09/2018
Agreements subscriptions	C11	31/12/2020
Implementation of the urban freight model as pilot study	C11	30/04/2020
Agreement on the data protocol and on the specifications of the open-source multimodal trip planning software system	C12	30/09/2022
Definition of electro-mobility strategy at level of PO Valley	C13	30/09/2022
Realization of the survey on productive activities	C15	31/07/2019
Establishment of the regional information point	C17	30/04/2018
Training for the people in charge of the monitoring of the Air Quality Plans	D1	31/08/2018 - 31/01/2019
implementation of the emission dataset on Po Valley and Slovenia	D2	31/07/2020
Final collection of energy balance data	D3	31/07/2019
Realization of the dataset of traffic flows assigned on common graph of road network	D4	31/01/2020
Periodical updating dataset	D6	31/03 of every year from 2018 until 2021
International conference in Brussels	E2	during phase 3
Launch of the e-learning platform	E2	28/02/2018

Launch of the campaigns and start of the public moments of dissemination	E3	from 01/05/2018 until 31/12/2022
Organization of some events about electrical mobility	E4	31/12/2022
School involvement	E5	01/01/2019
Setting up of the Steering Committee Nomination of the coordinating beneficiary experts team Nomination of the project experts teams and action leaders Signature of the Partnership Agreements	F1	30/04/2017
Setting up of the Stakeholder Boards Involvement of the Po Basin Board in the IP	F3	31/07/2017

ACTIVITY REPORTS FORESEEN

Type of report	Deadline
Activity report Phase 1	31/10/2018
Activity report Phase 2	31/10/2020
Final report with payment request	30/04/2024

TIMETABLE

List all actions ordered by number and using their numbers or names. Tick as appropriate.

Action	2017				2018				2019				2020				2021				2022				2023				2024			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II		
A. Preparatory actions, elaboration of management plans and/or action plans																																
A1 - Emissions data set	■	■	■	■	■	■	■	■																								
A2 - System for the environmental accountability of the measures of AQ plans	■	■	■	■	■	■	■																									
A3 - Preliminary assessment of the Air Quality Plans	■	■	■	■	■	■	■	■	■																							
A4 - Network of special stations for the monitoring of the Plan's environmental effects: definition of the network and of the protocols for measuring	■	■	■	■	■	■	■	■																								
C. Concrete (conservation/implementation) actions																																
C1 - Implementing the data sharing infrastructure and the AQ model			■	■	■	■	■	■	■	■	■	■	■	■																		
C2 - Tool for improved emission inventory on Po basin and emission data warehouse						■	■	■	■	■	■	■	■	■																		
C3 - Implementing the Integrated Assessment Model (RIAT+)						■	■	■	■	■	■	■	■	■																		
C4 - Promoting an ammonia low-emission application of fertilizers based			■	■	■	■	■	■	■	■	■	■	■	■																		



LIFE 2015 ENVIRONMENT INTEGRATED PROJECTS

Stage 2 - Full proposal

FINANCIAL APPLICATION FORMS

Proposal acronym: LIFE-IP PREPAIR

NOTES:

Please refer to guidelines for IP applicants when filling in these forms

FORM FA

Proposal acronym: LIFE-IP PREPAIR

Budget breakdown categories	Total cost in euro	Eligible Cost in euro	% of total eligible costs
1. Personnel		9.186.082	55,25%
2. Travel and subsistence		441.082	2,65%
3. External assistance		4.817.098	28,97%
4. Durable goods			
Infrastructure	0	0	0,00%
Equipment	361.000	180.500	1,09%
Prototype		0	0,00%
5. Land purchase / long-term lease		0	0,00%
6. Consumables		549.830	3,31%
8. Other Costs		392.299	2,36%
9. Overheads		1.058.548	6,37%
TOTAL	16.805.939	16.625.439	100%

Contribution breakdown	In euro	% of TOTAL	% total eligible costs
Requested European Union contribution	9.974.624	59,35%	60,00%
Coordinating Beneficiary's contribution	797.500	4,75%	
Associated Beneficiaries' contribution	6.033.815	35,90%	
Co-financers contribution	0	0,00%	
TOTAL	16.805.939	100,00%	

budget must

Please fill in the forms FC to F7 first. In these forms you are allowed to add lines but you cannot alter the formulas: please fill in only cells with yellow background.

Please check consistency of total amounts per cost category between form FB and forms FC to F7

Please refer to the relevant instructions given in the explanatory notes for filling in these forms

Important note: Please fill in manually overheads in this form: overheads cannot be above 7% of the total eligible direct costs excluding land purchase and the overhead costs themselves.

FORM FB

Proposal acronym: LIFE-IP PREPAIR

Breakdown of costs for Actions in Euro (excluding overhead costs)												
Action number	Name of action	1. Personnel	2. Travel and subsistence	3. External assistance	4.a Infrastructure	4.b Equipment	4.c Prototype	5. Purchase or lease of land	6. Consumables	7. Other costs	8. Overheads	TOTAL
A1	Emissions data set	62.256	4.020									66.276
A2	System for the environmental accountability of the measures of the AQ plans	52.866	8.000	25.000								85.866
A3	Preliminary assessment of the Air Quality Plans	53.906	2.000	35.000								90.906
A4	Network of special stations for the monitoring of the Plan's environmental effects: definition of the network and of the protocols for measuring	126.903	8.668									135.571
C1	Implementing the data sharing infrastructure and the AQ model	582.808	14.520	230.000		56.000						883.328
C2	Tool for improved emission inventory on Po basin and emission data warehouse	22.888		80.000								102.888
C3	Implementing the Integrated Assessment Model (RIAT+)	294.912	24.240	255.000		3.000						577.152
C4	Promoting an ammonia low-emission application of fertilizers based on urea in agriculture	182.108	10.000	162.600						4.900		359.608
C5	Implementation of a common model for evaluation of gaseous emissions and odour resulting from the intensive rearing of cattle, pigs and poultry	207.234	7.800	164.600						4.900		384.534
C6	Training and specialist training for installers and designers of domestic biomass systems	137.991	5.960	168.770					9.500	9.000		331.221
C7	Enhancement of the role of "qualified chimney sweep" for the control and maintenance of biomass domestic systems	155.067	11.770	209.832		15.000			8.500	31.000		431.169
C8	Analysis of the logistics of consumption and supply of woody biomass	193.986	10.900	69.000					2.000	2.000		277.886
C9	Actions promoting cycling mobility	642.709	21.300	552.300		110.000			123.000	4.000		1.453.309
C10	Demonstrative action on conversion propulsion system from diesel to electric	64.230	6.380	374.337					6.000	18.000		468.947
C11	Rationalization of short-range freight logistics in urban and extra-urban areas	234.759	14.650	216.300		17.000			10.500			493.209
C12	Development of ICT tools for public transport users	125.828	9.300	161.000								296.128
C13	Actions in support of electric mobility	233.850	17.196	149.000		15.000			13.800	6.000		434.846
C14	Training on Eco-driving	42.970	4.980	107.500					3.000			158.450
C15	Training and support services to industries aimed at improving energy efficiency	295.126	9.600	180.000					3.500	4.000		492.226
C16	Near Zero Energy Buildings	144.416	11.440	166.960					4.000	34.000		360.816
C17	Support to local authorities for energy saving initiatives in public buildings and for the enhancement of GPP	504.187	15.100	188.500		5.000			26.000	21.000		759.787
D1	Periodical collection of the measures already planned for the environmental reporting of the measures' implementation through the environmental accountability system	70.263							10.000			80.263
D2	Periodic update of emission data	106.612		30.000								136.612
D3	Residential wood consumption estimation in the Po Valley	96.180		180.000						15.000		291.180
D4	Traffic flow estimation in the Po Valley	54.478		250.000								304.478
D5	Regular assessment (monthly/yearly) of the air quality	745.141		165.000								910.141
D6	Monitoring the environmental effects of pollutant reduction measures implemented by air quality improvement plans	500.893	9.535	19.840		140.000			193.030	16.000		879.298
E1	Information and awareness raising activities	149.947	21.271	175.000					37.000	84.000		467.218
E2	Development of communication actions in support to single actions	163.621	26.183	142.000					32.000	20.000		383.804
E3	Communication on the use of biomass	93.313	8.627	132.200					2.600			236.740
E4	Population awareness raising on electric vehicles (regional Electric Mobility Day)	197.442	2.500	104.000					47.400			351.342
E5	Creation of multimedia informative and educational materials on air quality issue	93.955	2.490	53.600					12.000	7.000		169.045
E6	Networking with other projects	34.082	2.999							2.000		39.081
F1	Administrative and financial management of the project	2.472.564	148.653	69.759					6.000	5.000		2.701.976
F2	Independent auditing									99.999		99.999
F3	Establishing the governance permanent platform	46.591	1.000							4.500		52.091
Overheads											1.058.548	1.058.548
TOTAL		9.186.082	441.082	4.817.098	0	361.000	0	0	549.830	392.299	1.058.548	16.805.939

FORM FC

Proposal acronym: LIFE-IP PREPAIR

Coordinating Beneficiary's contribution

Country code	Beneficiary n°	Beneficiary short name	Total costs of the actions in euro	Beneficiary's own contribution in euro	Amount of EC contribution requested in euro
IT	1	RER	1.981.000	797.500	1.183.500

Associated Beneficiaries' contribution

Country code	Beneficiary n°	Beneficiary short name	Total costs of the actions in euro	Associated beneficiary's own contribution in euro	Amount of EC contribution requested in euro
IT	2	VENETO	1.185.531	478.712	706.819
IT	3	LOMBARDY	492.698	197.079	295.619
IT	4	PIEDMONT	1.746.974	698.789	1.048.185
IT	5	RA FVG	860.274	344.110	516.164
IT	6	PROVINCE OF TRENTO	1.170.618	472.747	697.871
IT	7	ARPAE	1.594.492	673.797	920.695
IT	8	ARPAV	663.072	276.899	386.173
IT	9	ARPA	1.197.753	491.102	706.651
IT	10	ARPA LOMB	1.361.533	544.613	816.920
IT	11	ARPA VDA	240.845	96.338	144.507
IT	12	ARPA FVG	240.845	96.338	144.507
SI	13	ARSO	479.906	192.632	287.274
IT	14	COBO	848.154	369.262	478.892
IT	15	MILAN	493.961	197.584	296.377
IT	16	CDT	546.306	223.022	323.284
IT	17	ERVET	1.007.532	403.013	604.519
IT	18	FLA	694.445	277.778	416.667
			14.824.939	6.033.815	8.791.124

Co-financers contribution

Co-financer's name	Amount of co-financing in euro
TOTAL	0

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs				Calculation =>		
Beneficiary short name	Action number	Type of staff	Category/Role in the project	A Daily rate	B Number of person-days	A X B Direct personnel costs
PHASE 1						
RER	A2	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/supporting development of dataset	170	29	4.930
RER	C4	NON ADDITIONAL STAFF	TECHNICAL OFFICER/planning of the action, constitution of working groups	120	60	7.200
RER	C4	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/ACTION MANAGER/coordination of technical activities and monitoring	170	30	5.100
RER	C4	ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/preliminary analysis of data, planning and implementation of the action	175	150	26.250
RER	C5	NON ADDITIONAL STAFF	TECHNICAL OFFICER/planning of the action, constitution of working groups	120	62	7.440
RER	C5	NON ADDITIONAL STAFF	ACTION MANAGER/coordination of technical activities and monitoring	170	34	5.780
RER	C5	ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/preliminary analysis of data, planning and implementation of the action	175	150	26.250
RER	C6	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/context analysis, planning of training format	170	4	680
RER	C7	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/context analysis, planning of training format	170	15	2.550
RER	C8	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/preliminar meetings of action	170	10	1.700
RER	C9	ADDITIONAL STAFF	TECHNICAL OFFICER/definition of the contents of survey of bike infrastructures, data collection and analysis	120	155	18.600
RER	C9	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/planning of training modules, supervision on the implementation of the action	170	30	5.100
RER	C10	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/support to stakeholder consultation and participation to project meetings	170	6	1.020
RER	C11	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/coordination of activities and monitoring of the action	170	40	6.800
RER	C11	ADDITIONAL STAFF	TECHNICAL OFFICER/support to development of activities	175	200	35.000
RER	C13	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/support to action development	170	10	1.700
RER	C14	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/ TRAINING CONCEPTS ELABORATION	170	7	1.190
RER	C15	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/coordination of technical activities and monitoring	170	30	5.100
RER	C15	NON ADDITIONAL STAFF	TECHNICAL OFFICER/planning of the action, constitution of working groups	120	40	4.800
RER	C15	ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/coordination of technical activities and monitoring	175	210	36.750
RER	C16	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/context analysis, planning of training format	170	7	1.190
RER	C17	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/coordination and monitoring of the action	170	30	5.100
RER	C17	ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/development of courses materials and of training activities	175	230	40.250
RER	E1	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/supporting development of information and public awareness activities	170	5	850
RER	E2	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/SUPPORTING DEVELOPMENT OF ACTIVITIES for SINGLE COMMUNICATION CAMPAIGNS	170	5	850
RER	E3	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/SUPPORTING DEVELOPMENT OF INFORMATION ACTIVITIES	170	8	1.360
RER	E5	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/support in educational paths development	170	18	3.060
RER	E6	NON ADDITIONAL STAFF	TECHNICAL EXPERT OFFICER/coordination of networking activities	170	5	850
RER	F1	NON ADDITIONAL STAFF	ADMINISTRATIVE OFFICER/administrative management of the project	105	100	10.500
RER	F1	ADDITIONAL STAFF	ADMINISTRATIVE OFFICER/support to administrative management of the project	170	330	56.100
RER	F1	ADDITIONAL STAFF	SUPPORT TO THE PROJECT MANAGER to coordinating and monitoring the project	170	215	36.550
RER	F1	NON ADDITIONAL STAFF	PROJECT MANAGER/ coordinating and monitoring of the project	170	210	35.700
RER	F3	NON ADDITIONAL STAFF	PROJECT MANAGER/ coordinating of governance permanent platform	170	18	3.060
VENETO REGION	A2	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination activities	520	3	1.560
VENETO REGION	A2	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Development of Air quality data set	170	20	3.400
VENETO REGION	C4	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Expert to analyzed ammonia low emissions strategies	170	30	5.100
VENETO REGION	C4	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordinations agricultural topics	520	3	1.560
VENETO REGION	C4	TEMPORARY STAFF	TECHNICAL EXPERT/Supporting analyses on Ammonia emissions	120	120	14.400
VENETO REGION	C5	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Expert to individuate a common model to evaluate gaseous emissions	170	40	6.800
VENETO REGION	C5	TEMPORARY STAFF	TECHNICAL EXPERT/Supporting activity of gaseous emissions modelling	120	120	14.400
VENETO REGION	C5	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination activities	520	3	1.560
VENETO REGION	C6	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/planning of training for installers	170	15	2.550
VENETO REGION	C6	TEMPORARY STAFF	TECHNICAL EXPERT/support to activities of training planning	120	20	2.400
VENETO REGION	C7	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/ awareness activity for chimney sweep	170	15	2.550
VENETO REGION	C7	TEMPORARY STAFF	TECHNICAL EXPERT /support to activities of awareness for chimney sweep	120	20	2.400
VENETO REGION	C8	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/support the biomass planning	170	2	340
VENETO REGION	C10	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/collaborate to plan demonstrative action	170	10	1.700

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs				Calculation =>		
Beneficiary short name	Action number	Type of staff	Category/Role in the project	A Daily rate	B Number of person-days	A X B Direct personnel costs
VENETO REGION	C11	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Collaborate in freight logistics activities	170	20	3.400
VENETO REGION	C11	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination activities	520	3	1.560
VENETO REGION	C11	TEMPORARY STAFF	TECHNICAL EXPERT/support to freight logistic activities	120	120	14.400
VENETO REGION	C12	TEMPORARY STAFF	TECHNICAL EXPERT/Collaborate to design ICT tools for public transport	120	60	7.200
VENETO REGION	C13	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Collaborate to the planning of sustainable mobility courses	170	20	3.400
VENETO REGION	C13	TEMPORARY STAFF	TECHNICAL EXPERT/Support the planning of sustainable mobility courses	120	70	8.400
VENETO REGION	C14	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Collaborate to plan ecodriving trings	170	3	510
VENETO REGION	C15	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Collaborate to develop of thematic guidelines	170	30	5.100
VENETO REGION	C15	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination activities	520	2	1.040
VENETO REGION	C15	TEMPORARY STAFF	TECHNICAL EXPERT/Support in energy efficiency activities	120	60	7.200
VENETO REGION	C16	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Collaborate to plan energy efficiency courses	170	15	2.550
VENETO REGION	C16	TEMPORARY STAFF	TECHNICAL EXPERT/Support to energy efficiency training activities	120	90	10.800
VENETO REGION	C17	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Implementing energy saving actions	170	20	3.400
VENETO REGION	C17	TEMPORARY STAFF	TECHNICAL EXPERT/Support to implement anergy saving actions	120	90	10.800
VENETO REGION	D1	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Implementing evaluation actions	170	12	2.040
VENETO REGION	E3	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Implmenting of dissemination activities about biomass burning	170	6	1.020
VENETO REGION	E4	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Implementing regional electrical mobility day	170	10	1.700
VENETO REGION	E4	TEMPORARY STAFF	TECHNICAL EXPERT/Support regional dissemination activities about electrical mobility	120	15	1.800
VENETO REGION	E6	TEMPORARY STAFF	TECHNICAL EXPERT/Implementing capitalisation networking	120	5	600
VENETO REGION	F1	TEMPORARY STAFF	ADMINISTRATIVE OFFICER/Veneto Region Financial manager	120	205	24.600
VENETO REGION	F1	TEMPORARY STAFF	ADMINISTRATIVE OFFICER/Support to financial manager	105	202	21.210
VENETO REGION	F1	PERMANENT STAFF	HEAD OF DEPARTMENT/Veneto Region project manager	520	3	1.560
VENETO REGION	F1	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Technical support of the project manager	170	79	13.430
VENETO REGION	F3	PERMANENT STAFF	HEAD OF DEPARTMENT/Veneto Region Project relationship	520	3	1.560
VENETO REGION	F3	PERMANENT STAFF	ADMINISTRATIVE EXPERT OFFICER/Support the Veneto Region relation ship	170	20	3.400
Lombardy Region	A2	NON ADDITIONAL	MANAGER/SUPPORTING DEVELOPMENT OF DATA SET	450	3	1.350
Lombardy Region	A2	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING DEVELOPMENT OF DATA SET	194	3	582
Lombardy Region	C4	NON ADDITIONAL	MANAGER/SUPPORTING ANALYSIS OF BEST APPLICATION TECHNIQUES	441	11	4.851
Lombardy Region	C4	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING ANALYSIS OF BEST APPLICATION TECHNIQUES	196	18	3.528
Lombardy Region	C4	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING ANALYSIS OF BEST APPLICATION TECHNIQUES	238	5	1.190
Lombardy Region	C4	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING ANALYSIS OF BEST APPLICATION TECHNIQUES	231	5	1.155
Lombardy Region	C5	NON ADDITIONAL	MANAGER/SUPPORTING DEVELOPMENT OF COMMON MODEL	441	2	882
Lombardy Region	C5	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING DEVELOPMENT OF COMMON MODEL	196	8	1.568
Lombardy Region	C5	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING DEVELOPMENT OF COMMON MODEL	238	4	952
Lombardy Region	C6	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING SPECIALIST TRAINING	239	3	717
Lombardy Region	C6	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING SPECIALIST TRAINING	153	1	153
Lombardy Region	C7	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING CHIMNEY SWEEPS TRAINING	239	1	239
Lombardy Region	C7	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING CHIMNEY SWEEPS TRAINING	153	1	153
Lombardy Region	C8	NON ADDITIONAL	MANAGER/SUPPORTING DISSEMINATION AND GOOD PRACTICES ACTIONS	450	1	450
Lombardy Region	C8	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING DISSEMINATION AND GOOD PRACTICES ACTIONS	194	6	1.164
Lombardy Region	C9	NON ADDITIONAL	MANAGER/TRAINING ACTIVITIES	507	13	6.591
Lombardy Region	C9	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/TRAINING ACTIVITIES	212	13	2.756
Lombardy Region	C9	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/TRAINING ACTIVITIES	178	17	3.026
Lombardy Region	C9	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/TRAINING ACTIVITIES	241	1	241
Lombardy Region	C13	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING REALIZATION OF COURSES ON SUSTAINABLE MOBILITY	220	8	1.760
Lombardy Region	C13	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING REALIZATION OF COURSES ON SUSTAINABLE MOBILITY	172	8	1.376

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A Daily rate	B Number of person-days	A X B Direct personnel costs
Lombardy Region	C16	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING REALIZATION OF TRAINING COURSES	239	2	478
Lombardy Region	C16	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING REALIZATION OF TRAINING COURSES	153	2	306
Lombardy Region	D1	NON ADDITIONAL	MANAGER/SUPPORTING THE HELP DESK AND TRAINING	450	1	450
Lombardy Region	D1	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING HELP DESK AND TRAINING	194	1	194
Lombardy Region	E1	NON ADDITIONAL	MANAGER/SUPPORTING DEVELOPMENT OF INFORMATION AND PUBLIC AWARENESS ACTIVITIES	450	1	450
Lombardy Region	E1	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING DEVELOPMENT OF INFORMATION ACTIVITIES	194	2	388
Lombardy Region	E1	NON ADDITIONAL	ADMINISTRATIVE EXPERT OFFICER/SUPPORTING DEVELOPMENT OF INFORMATION ACTIVITIES	153	1	153
Lombardy Region	E2	NON ADDITIONAL	MANAGER/SUPPORTING DEVELOPMENT OF ACTIVITIES IN SUPPORT TO SINGLE COMMUNICATION CAMPAIGNS	450	1	450
Lombardy Region	E2	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING DEVELOPMENT OF ACTIVITIES IN SUPPORT TO SINGLE COMMUNICATION CAMPAIGNS	194	1	194
Lombardy Region	E2	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING DEVELOPMENT OF ACTIVITIES IN SUPPORT TO SINGLE COMMUNICATION CAMPAIGNS	194	2	388
Lombardy Region	E3	NON ADDITIONAL	ACTION MANAGER/COORDINATION DEVELOPMENT COMMUNICATION ACTIVITIES	450	10	4.500
Lombardy Region	E3	NON ADDITIONAL	ACTION MANAGER/DEVELOPMENT COMMUNICATION ACTIVITIES	194	15	2.910
Lombardy Region	E3	NON ADDITIONAL	ACTION MANAGER ADMINISTRATIVE EXPERT OFFICER/SUPPORTING DEVELOPMENT OF INFORMATION ACTIVITIES	153	25	3.825
Lombardy Region	E3	NON ADDITIONAL	ACTION MANAGER/DEVELOPMENT COMMUNICATION ACTIVITIES	497	1	497
Lombardy Region	E3	NON ADDITIONAL	ACTION MANAGER/DEVELOPMENT COMMUNICATION ACTIVITIES	239	5	1.195
Lombardy Region	E5	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING EDUCATIONAL ACTIVITIES	194	6	1.164
Lombardy Region	E6	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/DEVELOPMENT OF NETWORKING ACTIVITIES	194	3	582
Lombardy Region	F1	NON ADDITIONAL	GENERAL DIRECTOR/SUPPORTING PROJECT'S COORDINATION	863	2	1.726
Lombardy Region	F1	NON ADDITIONAL	MANAGER/SUPPORTING PROJECT'S COORDINATION	450	7	3.150
Lombardy Region	F1	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING PROJECT'S COORDINATION	194	10	1.940
Lombardy Region	F1	NON ADDITIONAL	TECHNICIAN EXPERT OFFICER/SUPPORTING PROJECT'S COORDINATION	194	2	388
Lombardy Region	F1	NON ADDITIONAL	ADMINISTRATIVE EXPERT OFFICER/SUPPORTING PROJECT'S COORDINATION	153	25	3.825
Lombardy Region	F1	NON ADDITIONAL	ADMINISTRATIVE OFFICER/SUPPORTING PROJECT'S COORDINATION	142	8	1.136
Lombardy Region	F3	NON ADDITIONAL	ADMINISTRATIVE EXPERT OFFICER/SUPPORTING PROJECT'S COORDINATION	153	2	306
PIEDMONT REGION	A2	non additional	functionary / senior policy maker, expert on relative action field	173,69	15	2.605
PIEDMONT REGION	A2	non additional	functionary / policy maker, expert on relative action field	155,55	19	2.955
PIEDMONT REGION	A2	non additional	functionary / administrative officer involved	92,34	5	462
PIEDMONT REGION	C4	non additional	functionary / senior policy maker, expert on relative action field	173,69	21	3.647
PIEDMONT REGION	C4	non additional	functionary / policy maker, expert on relative action field	155,55	21	3.267
PIEDMONT REGION	C4	non additional	functionary / administrative officer involved	92,34	4	369
PIEDMONT REGION	C5	non additional	functionary / senior policy maker, expert on relative action field	173,69	35	6.079
PIEDMONT REGION	C5	non additional	functionary / policy maker, expert on relative action field	155,55	35	5.444
PIEDMONT REGION	C5	non additional	functionary / administrative officer involved	92,34	10	923
PIEDMONT REGION	C5	additional	technician / technical advisor	140,45	50	7.023
PIEDMONT REGION	C6	non additional	functionary / senior policy maker, expert on relative action field	173,69	10	1.737
PIEDMONT REGION	C6	non additional	functionary / policy maker, expert on relative action field	155,55	5	778
PIEDMONT REGION	C6	non additional	functionary / administrative officer involved	92,34	5	462
PIEDMONT REGION	C7	non additional	functionary / senior policy maker, expert on relative action field	173,69	8	1.390
PIEDMONT REGION	C7	non additional	functionary / policy maker, expert on relative action field	155,55	10	1.556
PIEDMONT REGION	C7	non additional	functionary / administrative officer involved	92,34	14	1.293
PIEDMONT REGION	C8	non additional	Head of Unit / Supervisor	297,51	25	7.438
PIEDMONT REGION	C8	non additional	functionary / senior policy maker, expert on relative action field	173,69	10	1.737
PIEDMONT REGION	C8	non additional	functionary / policy maker, expert on relative action field	155,55	5	778
PIEDMONT REGION	C9	non additional	Action manager- Head of Unit / Supervisor	297,51	20	5.950
PIEDMONT REGION	C9	non additional	functionary / senior policy maker, coordinator of relative action	173,69	70	12.158
PIEDMONT REGION	C9	non additional	functionary / policy maker, expert on relative action field	155,55	75	11.666

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A	B	A X B
				Daily rate	Number of person-days	Direct personnel costs
PIEDMONT REGION	C9	non additional	functionary / administrative officer involved	92,34	10	923
PIEDMONT REGION	C10	non additional	Head of Unit / Supervisor	297,51	30	8.925
PIEDMONT REGION	C10	non additional	functionary / senior policy maker, coordinator of relative action	173,69	30	5.211
PIEDMONT REGION	C10	non additional	functionary / policy maker, expert on relative action field	155,55	40	6.222
PIEDMONT REGION	C10	non additional	functionary / administrative officer involved	92,34	20	1.847
PIEDMONT REGION	C10	additional	technician / technical advisor	140,45	50	7.023
PIEDMONT REGION	C11	non additional	Head of Unit / Supervisor	297,51	40	11.900
PIEDMONT REGION	C11	non additional	functionary / senior policy maker, expert on relative action field	173,69	30	5.211
PIEDMONT REGION	C11	non additional	functionary / policy maker, expert on relative action field	155,55	40	6.222
PIEDMONT REGION	C11	non additional	functionary / administrative officer involved	92,34	5	462
PIEDMONT REGION	C11	additional	technician / technical advisor	140,45	79	11.096
PIEDMONT REGION	C12	non additional	functionary / senior policy maker, expert on relative action field	173,69	5	868
PIEDMONT REGION	C12	non additional	functionary / policy maker, expert on relative action field	155,55	5	778
PIEDMONT REGION	C12	non additional	functionary / administrative officer involved	92,34	5	462
PIEDMONT REGION	C13	non additional	Head of Unit / Supervisor	297,51	40	11.900
PIEDMONT REGION	C13	non additional	functionary / senior policy maker, coordinator of relative action	173,69	20	3.474
PIEDMONT REGION	C13	non additional	functionary / policy maker, expert on relative action field	155,55	40	6.222
PIEDMONT REGION	C13	non additional	functionary / administrative officer involved	92,34	10	923
PIEDMONT REGION	C13	additional	technician / technical advisor	140,45	80	11.236
PIEDMONT REGION	C14	non additional	functionary / senior policy maker, coordinator of relative action	173,69	35	6.079
PIEDMONT REGION	C14	non additional	functionary / policy maker, expert on relative action field	155,55	35	5.444
PIEDMONT REGION	C14	non additional	functionary / administrative officer involved	92,34	45	4.155
PIEDMONT REGION	C15	non additional	Head of Unit / Supervisor	297,51	35	10.413
PIEDMONT REGION	C15	non additional	functionary / senior policy maker, expert on relative action field	173,69	54	9.379
PIEDMONT REGION	C15	non additional	functionary / policy maker, expert on relative action field	155,55	54	8.400
PIEDMONT REGION	C15	non additional	functionary / administrative officer involved	92,34	35	3.232
PIEDMONT REGION	C16	non additional	functionary / senior policy maker, expert on relative action field	173,69	50	8.685
PIEDMONT REGION	C16	non additional	functionary / policy maker, expert on relative action field	155,55	50	7.778
PIEDMONT REGION	C16	non additional	functionary / administrative officer involved	92,34	25	2.309
PIEDMONT REGION	C17	non additional	functionary / senior policy maker, expert on relative action field	173,69	80	13.895
PIEDMONT REGION	C17	non additional	functionary / policy maker, expert on relative action field	155,55	80	12.444
PIEDMONT REGION	C17	non additional	functionary / administrative officer involved	92,34	40	3.694
PIEDMONT REGION	D1	non additional	functionary / senior policy maker, expert on relative action field	173,69	10	1.737
PIEDMONT REGION	D1	non additional	functionary / policy maker, expert on relative action field	155,55	8	1.244
PIEDMONT REGION	D1	non additional	functionary / administrative officer involved	92,34	5	462
PIEDMONT REGION	E2	non additional	functionary / senior policy maker, expert on relative action field	173,69	10	1.737
PIEDMONT REGION	E2	non additional	functionary / policy maker, expert on relative action field	155,55	5	778
PIEDMONT REGION	E2	non additional	functionary / administrative officer involved	92,34	5	462
PIEDMONT REGION	E3	non additional	functionary / senior policy maker, expert on relative action field	173,69	10	1.737
PIEDMONT REGION	E3	non additional	functionary / policy maker, expert on relative action field	155,55	5	778
PIEDMONT REGION	E3	non additional	functionary / administrative officer involved	92,34	5	462
PIEDMONT REGION	E4	non additional	Head of Unit / Supervisor	297,51	25	7.438
PIEDMONT REGION	E4	non additional	functionary / senior policy maker, coordinator of relative action	173,69	10	1.737
PIEDMONT REGION	E4	non additional	functionary / policy maker, expert on relative action field	155,55	10	1.556
PIEDMONT REGION	E4	non additional	functionary / administrative officer involved	92,34	25	2.309
PIEDMONT REGION	E4	additional	technician / technical advisor	140,45	50	7.023

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A	B	A X B
				Daily rate	Number of person-days	Direct personnel costs
PIEDMONT REGION	E5	non additional	functionary / policy maker, expert on relative action field	155,55	20	3.111
PIEDMONT REGION	E6	non additional	functionary / policy maker, expert on relative action field	155,55	5	778
PIEDMONT REGION	F1	non additional	Head of Unit / Supervisor	297,51	30	8.925
PIEDMONT REGION	F1	non additional	functionary / senior policy maker, expert on relative action field	173,69	54	9.379
PIEDMONT REGION	F1	non additional	functionary / policy maker, expert on relative action field	155,55	85	13.222
PIEDMONT REGION	F1	non additional	functionary / administrative officer involved	92,34	240	22.162
PIEDMONT REGION	F1	additional	technician / technical advisor	140,45	250	35.113
PIEDMONT REGION	F3	non additional	Head of Unit / Supervisor	297,51	15	4.463
PIEDMONT REGION	F3	non additional	functionary / senior policy maker, expert on relative action field	173,69	5	868
PIEDMONT REGION	F3	non additional	functionary / policy maker, expert on relative action field	155,55	8	1.244
PIEDMONT REGION	F3	non additional	functionary / administrative officer involved	92,34	5	462
RAFGV	A2	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	3	1.545
RAFGV	A2	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partners	150	16	2.400
RAFGV	C4	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partners	150	14	2.100
RAFGV	C5	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partners	150	14	2.100
RAFGV	C6	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	1	515
RAFGV	C6	PERMANENT STAFF	HEAD OF UNIT/Planning and validating of training for installers and designers	330	7	2.310
RAFGV	C6	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, of training for installers and designers	150	27	4.050
RAFGV	C6	TEMPORARY STAFF	TECHNICAL EXPERT OFFICER/Support of training for installers and designers	120	27	3.240
RAFGV	C7	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	1	515
RAFGV	C7	PERMANENT STAFF	HEAD OF UNIT/Planning and validating of training for the control and maintenance of biomass domestic systems	330	5	1.650
RAFGV	C7	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, of training for the control and maintenance of biomass domestic systems	150	22	3.300
RAFGV	C7	TEMPORARY STAFF	TECHNICAL EXPERT /Support of training for the control and maintenance of biomass domestic systems	120	22	2.640
RAFGV	C8	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partners	150	12	1.800
RAFGV	C9	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	1	515
RAFGV	C9	PERMANENT STAFF	HEAD OF UNIT/Planning and validating promoting cycling mobility actions	330	5	1.650
RAFGV	C9	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, promoting cycling mobility actions	150	22	3.300
RAFGV	C9	TEMPORARY STAFF	TECHNICAL EXPERT /Supporting in promoting cycling mobility actions	120	22	2.640
RAFGV	C10	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partners	150	23	3.450
RAFGV	C11	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partners	150	14	2.100
RAFGV	C12	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	1	515
RAFGV	C12	PERMANENT STAFF	HEAD OF UNIT/Planning and validating design of ICT tools for public transport users	330	2	660
RAFGV	C12	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, in designing ICT tools for public transport users	150	15	2.250
RAFGV	C12	TEMPORARY STAFF	TECHNICAL EXPERT /Supporting in designing ICT tools for public transport users	120	15	1.800
RAFGV	C13	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	1	515
RAFGV	C13	PERMANENT STAFF	HEAD OF UNIT/Planning and validating of training for electric mobility and the study on electric mobility implementation area	330	12	3.960
RAFGV	C13	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, of training for electric mobility. Collaboration in the study on electric mobility implementation area	150	36	5.400
RAFGV	C13	TEMPORARY STAFF	TECHNICAL EXPERT/Support of training for electric mobility. Supporting in the study on electric mobility implementation area	120	36	4.320
RAFGV	C14	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partners	150	9	1.350
RAFGV	C15	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	2	1.030
RAFGV	C15	PERMANENT STAFF	HEAD OF UNIT/Planning and validating of training and support services to industries for improving energy efficiency	330	12	3.960
RAFGV	C15	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, of training and support services to industries for improving energy efficiency	150	36	5.400
RAFGV	C15	TEMPORARY STAFF	TECHNICAL EXPERT/Support in training and support services to industries for improving energy efficiency	120	36	4.320
RAFGV	C16	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	1	515
RAFGV	C16	PERMANENT STAFF	HEAD OF UNIT/Planning and validating of training aimed to Near zero energy buildings	330	5	1.650
RAFGV	C16	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, of training aimed to Near zero energy buildings	150	15	2.250
RAFGV	C16	TEMPORARY STAFF	TECHNICAL EXPERT/Support of training aimed to Near zero energy buildings	120	15	1.800
RAFGV	C17	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	5	2.575
RAFGV	C17	PERMANENT STAFF	HEAD OF UNIT/Planning and validating system dedicated to local authorities for energy saving in public buildings and in promoting GPP actions	330	15	4.950
RAFGV	C17	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Collaboration in creating, in cooperation with temporary staff, a system dedicated to local authorities for energy saving in public buildings and in promoting GPP actions	150	62	9.300
RAFGV	C17	TEMPORARY STAFF	TECHNICAL EXPERT/ Support to implement a system dedicated to local authorities for energy saving in public buildings and in promoting GPP actions	120	110	13.200
RAFGV	D1	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Implementing evaluation actions	150	6	900
RAFGV	E1	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with lead partner aimed to support public awareness and dissemination of results	150	2	300
RAFGV	E3	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partner responsible for implementation of the action aimed to support communication on the use of biomass	150	8	1.200
RAFGV	E4	PERMANENT STAFF	HEAD OF DEPARTMENT/Coordination-supervising activities	515	1	515
RAFGV	E4	PERMANENT STAFF	HEAD OF UNIT/Planning and validating actions in support of Electric mobility day	330	5	1.650
RAFGV	E4	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, of actions in support of Electric mobility day	150	15	2.250

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A	B	A X B
				Daily rate	Number of person-days	Direct personnel costs
RAVFG	E4	TEMPORARY STAFF	TECHNICAL EXPERT/Support in implementing actions for the Electric mobility day	120	15	1.800
RAVFG	E5	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Networking activities with partner responsible for implementation of the action aimed to create of multimedia informative and educational materials on air quality issue	150	5	750
RAVFG	E6	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Implementing capitalisation networking	150	4	600
RAVFG	F1	PERMANENT STAFF	HEAD OF DEPARTMENT/Autonomous Region Friuli Venezia Giulia project manager	515	4	2.060
RAVFG	F1	PERMANENT STAFF	TECHNICAL EXPERT OFFICER/Technical support for the project manager	150	12	1.800
RAVFG	F1	PERMANENT STAFF	ADMINISTRATIVE OFFICER/Administrative support for the financial manager	150	32	4.800
RAVFG	F1	TEMPORARY STAFF	ADMINISTRATIVE OFFICER/Autonomous Region Friuli Venezia Giulia Financial manager	120	178	21.360
RAVFG	F3	PERMANENT STAFF	HEAD OF DEPARTMENT/Autonomous Region Friuli Venezia Giulia Project relationship	515	1	515
RAVFG	F3	PERMANENT STAFF	ADMINISTRATIVE EXPERT OFFICER/Support to Autonomous Region Friuli Venezia Giulia Project relationship	170	7	1.190
PROVINCE OF TRENTO	A1	NON ADDITIONAL STAFF	Technical officer 2 – expert on air quality monitoring/collecting data set	200	25	5.000
PROVINCE OF TRENTO	A2	NON ADDITIONAL STAFF	Technical officer 2 – expert on air quality monitoring/collecting data and supporting development database	200	20	4.000
PROVINCE OF TRENTO	A3	NON ADDITIONAL STAFF	Technical officer 2 – expert on air quality monitoring/collecting data and supporting intercomparison	200	10	2.000
PROVINCE OF TRENTO	C4	NON ADDITIONAL STAFF	Technical officer 7 – expert on agriculture/supporting analysis on best techniques	200	4	800
PROVINCE OF TRENTO	C5	NON ADDITIONAL STAFF	Technical officer 7 – expert on agriculture/supporting analysis on best techniques	200	4	800
PROVINCE OF TRENTO	C6	NON ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/supporting data analysis and specialist training	200	5	1.000
PROVINCE OF TRENTO	C6	NON ADDITIONAL STAFF	Technical officer 5 – expert on energy&biomass/supporting data analysis and specialist training	200	5	1.000
PROVINCE OF TRENTO	C6	ADDITIONAL STAFF	Technical officer 1/supporting intercomparison, training organization and action follow up	180	70	12.600
PROVINCE OF TRENTO	C6	ADDITIONAL STAFF	Administrative/supporting training organization	180	6	1.080
PROVINCE OF TRENTO	C7	NON ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/supporting surveys and chimney sweeps trainings	200	17	3.400
PROVINCE OF TRENTO	C7	NON ADDITIONAL STAFF	Technical officer 5 – expert on energy&biomass/supporting surveys and trainings	200	17	3.400
PROVINCE OF TRENTO	C7	ADDITIONAL STAFF	Technical officer 1/supporting surveys, chimney sweeps training organization and action follow up	180	70	12.600
PROVINCE OF TRENTO	C7	ADDITIONAL STAFF	Administrative/supporting training organization	180	6	1.080
PROVINCE OF TRENTO	C8	NON ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/supporting intercomparison and collecting local data	200	5	1.000
PROVINCE OF TRENTO	C8	ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/supporting intercomparison and collecting local data	180	10	1.800
PROVINCE OF TRENTO	C13	NON ADDITIONAL STAFF	Technical officer 6 – expert on electrical mobility/ supporting stakeholders consultation and local survey	200	10	2.000
PROVINCE OF TRENTO	C13	ADDITIONAL STAFF	Technical officer 2/supporting stakeholders consultation and local survey	180	30	5.400
PROVINCE OF TRENTO	C15	NON ADDITIONAL STAFF	Technical officer 4 – expert on energy policies/supporting stakeholders involvement and development of guidelines	200	15	3.000
PROVINCE OF TRENTO	C15	ADDITIONAL STAFF	Technical officer 2/supporting stakeholders and collecting local information	180	150	27.000
PROVINCE OF TRENTO	C15	ADDITIONAL STAFF	Administrative/supporting events organization	180	3	540
PROVINCE OF TRENTO	C16	NON ADDITIONAL STAFF	Action Manager – Technical officer 4 – expert on energy policies/supporting intercomparison and technical training organization	200	7	1.400
PROVINCE OF TRENTO	C16	ADDITIONAL STAFF	Technical officer 2/supporting intercomparison and technical training organization	168	55	9.240
PROVINCE OF TRENTO	C16	ADDITIONAL STAFF	Administrative/supporting training organization	168	4	672
PROVINCE OF TRENTO	C17	NON ADDITIONAL STAFF	Technical officer 4 – expert on energy policies/supporting workshop and focus group organization	200	15	3.000
PROVINCE OF TRENTO	C17	NON ADDITIONAL STAFF	Technical officer 3 – expert on GPP/supporting stakeholders involvement and GPP workshop organization	200	20	4.000
PROVINCE OF TRENTO	C17	ADDITIONAL STAFF	Technical officer 2/supporting workshop and focus group organization	180	40	7.200
PROVINCE OF TRENTO	C17	ADDITIONAL STAFF	Technical officer 1/supporting stakeholders involvement and GPP workshop organization	180	80	14.400
PROVINCE OF TRENTO	C17	ADDITIONAL STAFF	Administrative/supporting training organization	180	2	360
PROVINCE OF TRENTO	D1	NON ADDITIONAL STAFF	Technical officer 2 – expert on air quality monitoring/data collection and supporting intercomparison	200	12	2.400
PROVINCE OF TRENTO	D2	NON ADDITIONAL STAFF	Technical officer 2 – expert on air quality monitoring/supporting data collection and intercomparison	200	7	1.400
PROVINCE OF TRENTO	D4	ADDITIONAL STAFF	Technical officer 1/supporting data collection	180	6	1.080
PROVINCE OF TRENTO	E1	NON ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/supporting development of information and public awareness activities	200	4	800
PROVINCE OF TRENTO	E1	ADDITIONAL STAFF	Technical officer 1/supporting development of information and public awareness activities	180	10	1.800
PROVINCE OF TRENTO	E2	ADDITIONAL STAFF	Technical officer 2/supporting development of information activities on specific action	168	8	1.344
PROVINCE OF TRENTO	E2	ADDITIONAL STAFF	Administrative/supporting information activities	168	1	168
PROVINCE OF TRENTO	E3	NON ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/supporting development biomass communication campaigns	200	8	1.600
PROVINCE OF TRENTO	E3	ADDITIONAL STAFF	Technical officer 1/supporting development biomass communication campaigns	180	8	1.440
PROVINCE OF TRENTO	E4	NON ADDITIONAL STAFF	Technical officer 6 – expert on electrical mobility /supporting awareness activities and organization of electric mobility day	200	7	1.400

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				Daily rate	Number of person-days	Direct personnel costs
PROVINCE OF TRENTO	E4	ADDITIONAL STAFF	Technical officer 2/supporting organization of electric mobility day	180	25	4.500
PROVINCE OF TRENTO	E4	ADDITIONAL STAFF	Administrative/supporting organization of electric mobility day	180	1	180
PROVINCE OF TRENTO	E5	ADDITIONAL STAFF	Technical officer 1/supporting educational activities	180	8	1.440
PROVINCE OF TRENTO	E6	NON ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/development of networking activities	200	2	400
PROVINCE OF TRENTO	E6	ADDITIONAL STAFF	Technical officer 1/supporting networking activities	180	2	360
PROVINCE OF TRENTO	F1	NON ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/supporting project coordination	200	50	10.000
PROVINCE OF TRENTO	F1	NON ADDITIONAL STAFF	Technical officer 4 – expert on energy policies/supporting project coordination	200	36	7.200
PROVINCE OF TRENTO	F1	ADDITIONAL STAFF	Technical officer 1/supporting project coordination	180	65	11.700
PROVINCE OF TRENTO	F1	ADDITIONAL STAFF	Technical officer 2/supporting project coordination	180	80	14.400
PROVINCE OF TRENTO	F1	ADDITIONAL STAFF	Administrative/supporting project coordination	180	180	32.400
PROVINCE OF TRENTO	F3	NON ADDITIONAL STAFF	Technical officer 1 – expert on air quality policies/supporting project coordination	200	10	2.000
PROVINCE OF TRENTO	F3	NON ADDITIONAL STAFF	Technical officer 4 – expert on energy policies/supporting project coordination	200	7	1.400
Arpae	A1	NON ADDITIONAL	Dirigente Fisico/ Manager - expert in developing data set	500	3	1.500
Arpae	A1	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS / Expert in emission inventory compilation	220	5	1.100
Arpae	A1	NON ADDITIONAL	Collaboratore Tecnico Professionale D / Junior technician for emission inventory compilation (data entry)	190	10	1.900
Arpae	A2	NON ADDITIONAL	Dirigente fisico/ Manager - supervisor to coordinate this action with C1	500	4	2.000
Arpae	A2	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS /Expert Professional to support the identification of indicators	220	7,59	1.670
Arpae	A2	NON ADDITIONAL	Collaboratore Tecnico Professionale D / Junior professional for action data base compilation (data entry)	190	7	1.330
Arpae	A3	NON ADDITIONAL	Dirigente Fisico / Action manager for Air quality evaluation team- coordination of action A3	500	6	3.000
Arpae	A3	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS /Expert in evaluation of the impact of the air quality plans	220	12	2.640
Arpae	A3	NON ADDITIONAL	Collaboratore Tecnico Professionale D / Junior technician for running air quality assessment model	190	12,42	2.360
Arpae	A4	NON ADDITIONAL	Dirigente Chimico / Manager - expert in designing the network of special stations	500	4	2.000
Arpae	A4	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS / Expert in definition monitoring protocols	220	5	1.100
Arpae	A4	NON ADDITIONAL	Collaboratore Tecnico Professionale D / Junior technician - field activities	190	10	1.900
Arpae	C1	NON ADDITIONAL	Dirigente Fisico /Manager - coordination of action C1	500	10	5.000
Arpae	C1	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS / Expert in air quality assessment	220	65	14.300
Arpae	C1	NON ADDITIONAL	Collaboratore Tecnico Professionale D /Junior technician for designing and implementing data collection interface	190	54,815	10.415
Arpae	C1	additional	Junior researcher for updating data base	180	327	58.860
Arpae	C3	NON ADDITIONAL	Dirigente Fisico /Manager - coordination supporting of action C3	500	9	4.500
Arpae	C3	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS / Expert in Riat plus model	220	34	7.480
Arpae	C3	NON ADDITIONAL	Collaboratore Tecnico Professionale D / Junior technician for Riat Plus application (data entry)	190	35,63	6.770
Arpae	C5	NON ADDITIONAL	Dirigente Meteo / Manager - expert in evaluation of gas emissions by frams and livestock	500	4	2.000
Arpae	C5	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS /Expert in model application	220	15	3.300
Arpae	D2	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS / Expert Professional in emission data entry	220	3	660
Arpae	D6	NON ADDITIONAL	Dirigente Chimico / Manager for supporting coordination activity	500	2	1.000
Arpae	D6	NON ADDITIONAL	Collaboratore Tecnico Professionale D / Junior professional for data entry	190	13	2.470
Arpae	E1	NON ADDITIONAL	Collab.Tecnico profess.le Esperto DS / Expert Professional in communication activities	220	3	660
Arpae	E6	NON ADDITIONAL	Dirigente Fisico / Manager to support the implementation of the network	500	1	500
Arpae	F1	NON ADDITIONAL	Dirigente Fisico / Manager to support project coordination	500	35	17.500
Arpae	F1	NON ADDITIONAL	Collab.Amm.vo Prof.le Esperto DS+PO /Administrative expert to support project coordination	260	60	15.600
Arpae	F1	NON ADDITIONAL	Coadiutore Amministrativo /Accounter for project accountancy	175	120	21.000
ARPAV	A1	non additional	Expert in emission inventory compilation. Category D	173	25	4.325
ARPAV	A3	non additional	Expert in air quality assessment model. Category D	173	10	1.730
ARPAV	A4	non additional	Expert in definition monitoring protocols. Category D	173	15	2.595
ARPAV	A4	non additional	Manager expert in designing the network of special stations	536	4	2.144
ARPAV	C1	non additional	Expert in air quality assessment model. Category D	173	51	8.823
ARPAV	C1	non additional	Manager expert in air quality assessment model.	536	2	1.072
ARPAV	C2	non additional	Expert in emission inventory compilation. Category D	173	12	2.076
ARPAV	C3	non additional	Expert in modelling data analysis / support to implementation of the Integrated Assessment Model (RIAT+). Category D	173	22	3.806
ARPAV	D2	non additional	Expert in emission inventory compilation. Category D	173	2	346
ARPAV	D3	non additional	Expert in emission inventory compilation. Category D	173	45	7.785
ARPAV	D3	non additional	Manager to support biomass emissions survey	536	5	2.680
ARPAV	D6	non additional	Expert in air quality. Category D	173	13	2.249
ARPAV	E1	non additional	Expert in communication activities. Category D	173	4	692
ARPAV	E5	non additional	Manager to develop communication activities	505	2	1.010
ARPAV	E6	non additional	Expert in capitalisation. Category D	173	1	173
ARPAV	F1	non additional	Expert in budget project management. Category D	173	105	18.165
ARPAV	F1	non additional	Financial manager / financial monitoring of the project	536	43	23.048
ARPA PIEMONTE	A1	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS modelling system expert / preliminary analysis of data, planning and implementation of the action	179	25	4.475
ARPA PIEMONTE	A1	additional	modelling system expert / preliminary analysis of data and support to implementation of the action	137	4	548
ARPA PIEMONTE	A3	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS – modelling system expert / preliminary assessment of the AQ plans impact on air quality	179	11	1.969
ARPA PIEMONTE	A4	non additional	Collab. Tecnico/Sanitario profess.le D – air quality data analysis / support to the monitoring activities of the plan's environmental effects and the experimental campaigns	148	6	888

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A	B	A X B
				Daily rate	Number of person-days	Direct personnel costs
ARPA PIEMONTE	A4	non additional	Dirigente chimico -air quality data expert / monitoring of the plan's environmental effects and definition of protocol for realizing experimental campaigns	344	5	1.720
ARPA PIEMONTE	A4	non additional	Dirigente chimico -project manager / supervision on the monitoring activities of the plan's environmental effects and on the experimental campaigns	399	6	2.394
ARPA PIEMONTE	C1	non additional	Assistente Tecnico C -modelling data analysis / support to implementation of the data sharing infrastructure and of the AQ model	130	19	2.470
ARPA PIEMONTE	C1	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS - modelling system expert / implementation of the data sharing infrastructure and the AQ model	179	98	17.542
ARPA PIEMONTE	C3	non additional	Assistente Tecnico C - modelling data analysis / support to implementation of the Integrated Assessment Model (RIAT+)	130	15	1.950
ARPA PIEMONTE	C3	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS -modelling system expert / implementation of the Integrated Assessment Model (RIAT+)	179	90	16.110
ARPA PIEMONTE	C3	non additional	Dirigente chimico -project manager / supervision on the implementation of the Integrated Assessment Model (RIAT+)	399	5	1.995
ARPA PIEMONTE	C3	additional	modelling system expert / implementation of the Integrated Assessment Model (RIAT+)	137	365	50.005
ARPA PIEMONTE	C5	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS -meteorology expert / implementation of a common model of evaluation of gaseous emissions from agriculture	247	10	2.470
ARPA PIEMONTE	C5	additional	meteorology expert / implementation of a common model of evaluation of gaseous emissions from agriculture	137	59	8.083
ARPA PIEMONTE	D2	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS modelling system expert / periodic update of emission data	179	6	1.074
ARPA PIEMONTE	D4	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS -modelling system expert / organization of all available traffic flows data and supervision of traffic model activities	179	30	5.370
ARPA PIEMONTE	D4	additional	modelling system expert / support to collection and organization of all available traffic flows	137	7	959
ARPA PIEMONTE	D6	non additional	Collab. Tecnico/Sanitario profess.le D -air quality data analysis / support to the monitoring activities relative to atmospheric components not measured by measuring networks	148	8	1.184
ARPA PIEMONTE	D6	non additional	Dirigente chimico air quality data expert / monitoring activities relative to atmospheric components not measured by measuring networks and evaluation of indicators of pollutants reduction measures by air quality plans	344	14	4.816
ARPA PIEMONTE	D6	non additional	Dirigente chimico project manager / supervision on monitoring activities relative to atmospheric components not measured by measuring networks and evaluation of indicators of pollutants reduction measures by air quality plans	399	10	3.990
ARPA PIEMONTE	E1	non additional	Collab. Tecnico/Sanitario profess.le D - air quality data analysis / support to information and awareness raising activities	148	2	296
ARPA PIEMONTE	E1	non additional	Dirigente chimico - project manager / supervision on information and awareness raising activities	399	1	399
ARPA PIEMONTE	E6	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS -modelling system expert / support to networking activities with other projects	179	4	716
ARPA PIEMONTE	F1	non additional	Collab. Tecnico/Sanitario profess.le Esperto DS modelling system expert / support to project coordination and monitoring	179	9	1.611
ARPA PIEMONTE	F1	non additional	Dirigente chimico -air quality data expert / support to project coordination and monitoring	344	10	3.440
ARPA PIEMONTE	F1	non additional	Dirigente chimico -project manager / coordination of actions, management and monitoring of the project	399	98	39.102
ARPA PIEMONTE	F1	non additional	Collab. Tecnico/Sanitario profess.le D -financial manager / financial monitoring of the project	137	50	6.850
ARPA PIEMONTE	F1	non additional	Dirigente Amministrativo -administrative manager / administrative management of the project	408	9	3.672
ARPA PIEMONTE	F1	non additional	Collab. Amministrativo profess.le D -administrative officer / support to administrative activities	159	24	3.816
ARPA LOMB	A1	NON ADDITIONAL STAFF	MANAGER/SUPPORTING DEVELOPMENT OF DATA SET	400	10	4.000
ARPA LOMB	A1	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING DEVELOPMENT OF DATA SET	160	50	8.000
ARPA LOMB	A2	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING DEVELOPMENT OF DATA SET	160	12,5	2.000
ARPA LOMB	A3	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING AQ PLANS ASSESSMENT	160	12,5	2.000
ARPA LOMB	A4	NON ADDITIONAL STAFF	MANAGER/SUPPORTING AQ MONITORING AND ANALYSIS	400	80	32.000
ARPA LOMB	A4	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING AQ MONITORING AND ANALYSIS	160	50	8.000
ARPA LOMB	A4	ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING AQ MONITORING AND ANALYSIS	207	145	30.015
ARPA LOMB	C1	NON ADDITIONAL STAFF	MANAGER/SUPPORTING AQ DATA INFRASTRUCTURE AND AQ MODEL IMPLEMENTATION	400	5	2.000
ARPA LOMB	C1	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING AQ MODEL IMPLEMENTATION	160	25	4.000
ARPA LOMB	C1	ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING AQ DATA INFRASTRUCTURE FOR ICT ASPECTS AND AQ MODEL IMPLEMENTATION	207	24	4.968
ARPA LOMB	C2	NON ADDITIONAL STAFF	MANAGER/SUPPORTING TOOL DEVELOPMENT	400	1	400
ARPA LOMB	C2	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING TOOL DEVELOPMENT	160	9	1.440
ARPA LOMB	C2	ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING TOOL DEVELOPMENT	207	24	4.968
ARPA LOMB	C3	NON ADDITIONAL STAFF	MANAGER/SUPPORTING IAS IMPLEMENTATION	400	1	400
ARPA LOMB	C3	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING IAS IMPLEMENTATION	160	30	4.800
ARPA LOMB	D2	NON ADDITIONAL STAFF	MANAGER/SUPPORTING EMISSION DATA UPDATE	400	1	400
ARPA LOMB	D2	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING EMISSION DATA UPDATE	160	3	480
ARPA LOMB	D2	ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING EMISSION DATA UPDATE	207	30	6.210
ARPA LOMB	D6	NON ADDITIONAL STAFF	MANAGER/SUPPORTING MONITORING THE ENV. EFFECTS OF AQ PLANS POLLUTANT REDUCTION	400	22	8.800
ARPA LOMB	D6	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING MONITORING THE ENV. EFFECTS OF AQ PLANS POLLUTANT REDUCTION	160	73	11.680

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs				Calculation =>	A	B	A X B
Beneficiary short name	Action number	Type of staff	Category/Role in the project	Daily rate	Number of person-days	Direct personnel costs	
ARPA LOMB	D6	ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING MONITORING THE ENV. EFFECTS OF AQ PLANS POLLUTANT REDUCTION	207	94	19.458	
ARPA LOMB	E1	NON ADDITIONAL STAFF	MANAGER/SUPPORTING DEVELOPMENT OF INFORMATION ACTIVITIES	400	1	400	
ARPA LOMB	E3	NON ADDITIONAL STAFF	MANAGER/COORDINATION DEVELOPMENT COMMUNICATION ACTIVITIES	400	8	3.200	
ARPA LOMB	F1	NON ADDITIONAL STAFF	MANAGER/SUPPORTING PROJECT'S COORDINATION	400	90	36.000	
ARPA LOMB	F1	NON ADDITIONAL STAFF	TECHNICIAN EXPERT OFFICER/SUPPORTING PROJECT'S COORDINATION	160	130	20.800	
ARPA VDA	A1	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	50	8.550	
ARPA VDA	A3	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	40	6.840	
ARPA VDA	A4	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	100	17.100	
ARPA VDA	C1	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	50	8.550	
ARPA VDA	C3	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	50	8.550	
ARPA VDA	D2	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	20	3.420	
ARPA VDA	D6	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	75	12.825	
ARPA VDA	E1	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	5	855	
ARPA VDA	E6	non additional	Collaboratore tecnico esperto DS / modelling system expert	171	5	855	
ARPA VDA	F1	non additional	Dirigente della Sezione Aria e Atmosfera di ARPA/ project manager	360	25	9.000	
ARPA FVG	A1	non additional	Permanent position, contract category D /modelling system expert	150	5	750	
ARPA FVG	A1	additional	Temporary position, contract category D / air quality data expert	170	100	17.000	
ARPA FVG	A3	non additional	Permanent position, contract category D /modelling system expert	150	40	6.000	
ARPA FVG	A4	non additional	Permanent position, contract category D /air quality data expert	150	20	3.000	
ARPA FVG	A4	additional	Temporary position, contract category D /air quality data expert	170	100	17.000	
ARPA FVG	C1	non additional	Permanent position, contract category D /modelling system expert	150	50	7.500	
ARPA FVG	C3	non additional	Permanent position, contract category D /modelling system expert	150	9	1.350	
ARPA FVG	D2	non additional	Permanent position, contract category D / modelling system expert	150	25	3.750	
ARPA FVG	D5	non additional	Permanent position, contract category D /modelling system expert	150	0	0	
ARPA FVG	D6	non additional	Permanent position, contract category D /air quality data expert	150	41	6.150	
ARPA FVG	E1	non additional	Permanent position, contract category D /modelling system expert	150	10	1.500	
ARPA FVG	E6	non additional	Permanent position, contract category D /modelling system expert	150	10	1.500	
ARPA FVG	F1	non additional	Permanent position, contract category D /project manager	360	20	7.200	
ARSO	A1	non additional	Environmental engineer/compilation of emission inventory data	127,7	40	5.108	
ARSO	A3	non additional	Environmental engineer/modelling system expert	127,7	44	5.619	
ARSO	A3	non additional	Environmental engineer/modelling system expert	162	21	3.402	
ARSO	A3	additional	Environmental engineer/modelling system expert	127,7	128	16.346	
ARSO	A4	non additional	Head of Division/expert for definition of monitoring protocols at special stations	229,4	22	5.047	
ARSO	C1	non additional	Environmental engineer/expert for modelling and modelling data analysis	162	25	4.050	
ARSO	C1	additional	Environmental engineer/expert for modelling and modelling data analysis	127,7	216	27.583	
ARSO	C8	additional	Environmental engineer/data collection	127,7	36	4.597	
ARSO	E1	non additional	Head of Division/development of information and public awareness activities	229,4	20	4.588	
ARSO	E6	non additional	Director/networking with other projects	249,5	3	749	
ARSO	F1	non additional	Undersecretary/administrative and financial management	229,4	45	10.323	
ARSO	F1	non additional	Director/coordination of project activities	249,5	22	5.489	
ARSO	F1	non additional	Head of Division/project manager	229,4	22	5.047	
ARSO	F1	non additional	Environmental engineer/support to project coordination	162	22	3.564	
ARSO	F1	non additional	Consultant/support to administrative and financial management	100	80	8.000	
COBO	E1	Non-additional	Project Coordinator Environment Dept.-Participation to the project conferences	405,54	1	406	
COBO	E4	Non-additional	Project Coordinator Environment Dept.-Supervision of the communication campaign	405,54	3	1.217	
COBO	F1	Non-additional	Project Coordinator Environment Dept.-Coordination of the management activities	405,54	7	2.839	
COBO	F1	Non-additional	Environmental Technician-Coordination of the reporting activities for the Environment and Mobility Departments and participation to meetings	148,14	13	1.926	
COBO	F1	Non-additional	Environmental Technician-Reporting activities for the Environmental Department	149,43	5	747	
COBO	F1	Non-additional	Environmental Technician-Coordination of the reporting activities for the Environment and Mobility Departments and participation to meetings	199,25	4	797	
COBO	C9	Non-additional	Project Coordinator Mobility Dept.-Supervision of the technical activities	564,06	4	2.256	
COBO	C11	Non-additional	Project Coordinator Mobility Dept.-Supervision of the technical activities	564,06	1	564	
COBO	E4	Non-additional	Project Coordinator Mobility Dept.-Supervision of the communication activities	564,06	1	564	
COBO	F1	Non-additional	Project Coordinator Mobility Dept.-Coordination of the management activities related to the Mobility Department	564,06	2	1.128	
COBO	C9	Non-additional	Mobility Senior Technician-Coordination of the different tasks of the action	408,90	9	3.680	
COBO	C11	Non-additional	Mobility Senior Technician-Coordination of the activities	408,90	1	409	
COBO	E4	Non-additional	Mobility Senior Technician-Coordination of the communication activities	408,90	1	409	
COBO	F1	Non-additional	Mobility Senior Technician-Coordination of the reporting activities for the Mobility Department	408,90	7	2.862	
COBO	E1	Non-additional	Mobility Technician-Collaboration in the communication activities related to sustainable mobility	156,38	2	313	
COBO	C9	Non-additional	Mobility Technician-Coordination of the training activities, technical activities related to the implementation of the bike station service, technical supervision of the modal-split analysis studies	156,38	44	6.881	
COBO	C11	Non-additional	Mobility Technician-Technical activities related to surveys and implementation of actions related to the regulation of freight transport	156,38	8	1.251	
COBO	E4	Non-additional	Mobility Technician-Organisation of events on sustainable mobility	156,38	19	2.971	
COBO	F1	Non-additional	Mobility Technician-Reporting activities for the Mobility Department and participation to the project conferences	156,38	12	1.877	
COBO	C9	Non-additional	Mobility Technician-Technical activities related to the implementation of the bike station service, technical supervision of the modal-split analysis studies	149,55	88	13.161	
COBO	C11	Non-additional	Mobility Technician-Technical activities related to surveys and implementation of actions related to the regulation of freight transport	149,55	15	2.243	
COBO	E4	Non-additional	Mobility Technician-Support in the organisation of events on sustainable mobility	149,55	25	3.739	
COBO	F1	Non-additional	Mobility Technician-Reporting activities for the Mobility Department and participation to the project conferences	149,55	35	5.234	
COBO	C9	Non-additional	Mobility Senior Technician-Coordination and supervision of the training activities, technical activities related to the implementation of the bike station service, technical supervision of the modal-split analysis studies	378,67	22	8.331	
COBO	C9	Non-additional	Mobility Technician-Training activities for citizens and schools	157,94	9	1.421	
COBO	C9	Non-additional	Mobility Technician-Training activities for citizens and schools	148,55	4	594	
COBO	C9	Non-additional	Mobility Technician-Training activities for citizens and schools	135,23	4	541	
COBO	E4	Non-additional	Mobility Senior Technician-Coordination in the organisation of events on sustainable mobility	382,22	2	764	
COBO	F1	Non-additional	Mobility Senior Technician-Supervision of the management activities for the Mobility Department	382,22	1	382	

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A	B	A X B
				Daily rate	Number of person-days	Direct personnel costs
COBO	F1	Non-additional	Administrative Manager Mobility Dept.-Reporting and accounting activities for the Mobility Department	498,69	15	7.480
COBO	F1	Non-additional	Administrative Manager Environment Dept.-Reporting and accounting activities for the Environmental Department	168,81	11	1.857
COBO	F1	Non-additional	Project Manager of International Projects Office-Reporting and accounting activities for the project	135,41	25	3.385
COBO	F1	Non-additional	Project Manager of International Projects Office-Reporting and accounting activities for the project	135,41	24	3.250
Milan	C9	Temporary staff specifically hired for this project	Junior Advisor - Activities in the schools	184	75	13.800
Milan	C9	Temporary staff specifically hired for this project	Junior Advisor - Activities in the schools	184	75	13.800
Milan	C9	Permanent staff -	Junior Coordinator - Organisation of the activities in the schools	200	55	11.000
Milan	C9	Permanent staff -	Senior Coordinator - Supervision of the activities in the schools	350	30	10.500
Milan	C9	Permanent staff	Junior administrative - administrative procedures and documents	210	40	8.400
Milan	E1	Permanent staff	Senior Technician - Events (in the schools and in the project) supervision and participation	240	2	480
Milan	E1	Permanent Staff	Junior Technician -Events (in the schools and in the project) organisation and participation	200	6	1.200
Milan	E4	Permanent staff	Senior Technician - Organisation of Local Electric Mobility Day	240	25	6.000
Milan	E4	Permanent staff	Junior Technician - Organisation of Local Electric Mobility Day	200	35	7.000
Milan	E6	Permanent staff	Senior Technician - Support on project progress monitoring and participation in meetings	240	5	1.200
Milan	F1	Permanent staff	Senior Technician - Support on project progress monitoring and participation in meetings	240	25	6.000
Milan	F1	Permanent staff	Junior Technician - Assistance on project progress monitoring and participation in meetings	200	45	9.000
Milan	F1	Permanent staff	Senior Technician - Assistance on project progress monitoring and participation in meetings	240	25	6.000
Milan	F1	Permanent staff	Senior Coordinator - Supervision project progress monitoring and participation in meetings	350	8	2.800
CDT	C9	non additional	HEAD OF DEPARTMENT/Coordination-supervising activities	430	6	2.580
CDT	C9	non additional	HEAD OF UNIT/Planning and validating promoting cycling mobility actions	250	10	2.500
CDT	C9	non additional	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, promoting cycling mobility actions	180	52	9.360
CDT	C9	non additional	TECHNICAL EXPERT /Supporting in promoting cycling mobility actions	140	119	16.660
CDT	C10	non additional	TECHNICAL EXPERT OFFICER/collaborate to plan demonstrative action	180	8	1.440
CDT	C10	non additional	TECHNICAL EXPERT OFFICER/collaborate to plan demonstrative action	140	11	1.540
CDT	C11	non additional	HEAD OF DEPARTMENT/Coordination activities	430	2	860
CDT	C11	non additional	HEAD OF UNIT/Planning and supervising activities	250	4	1.000
CDT	C11	non additional	TECHNICAL EXPERT OFFICER/Collaborate in freight logistics activities	180	30	5.400
CDT	C11	non additional	TECHNICAL EXPERT /Collaborate in freight logistics activities	140	60	8.400
CDT	E4	non additional	HEAD OF DEPARTMENT/Coordination activities	430	1	430
CDT	E4	non additional	HEAD OF UNIT/Planning and supervising activities	250	1	250
CDT	E4	non additional	TECHNICAL EXPERT OFFICER/Planning, in cooperation with temporary staff, of actions in support of Electric mobility day	180	8	1.440
CDT	E4	non additional	TECHNICAL EXPERT/Support in implementing actionsfor the Electric mobility day	140	12	1.680
CDT	F1	non additional	HEAD OF DEPARTMENT/Coordination activities	430	2	860
CDT	F1	non additional	HEAD OF UNIT/Planning and supervising activities	250	3	750
CDT	F1	non additional	TECHNICAL EXPERT OFFICER/Technical support of the project manager	180	3	540
CDT	F1	ADDITIONAL	technician / technical advisor	170	300	51.000
CDT	E1	non additional	TECHNICAL EXPERT OFFICER/Networking activities with lead partner aimed to support public awareness and dissemination of results	180	3	540
CDT	E1	non additional	TECHNICAL EXPERT /Networking activities with lead partner aimed to support public awareness and dissemination of results	140	3	420
CDT	E6	non additional	TECHNICAL EXPERT OFFICER/Technical support of the project manager	180	3	540
CDT	E6	non additional	TECHNICAL EXPERT/Implementing capitalisation networking	140	3	420
ERVET	A2	NON ADDITIONAL	Project Manager/Development of dataset	389	9	3.501
ERVET	A2	ADDITIONAL	Senior Researcher/Development of dataset	256	26	6.656
ERVET	A2	ADDITIONAL	Junior Researcher/Development of dataset	160	62	9.920
ERVET	C17	NON ADDITIONAL	Project Manager/Enhancement of GPP	389	10,5	4.085
ERVET	C17	ADDITIONAL	Senior Researcher/Enhancement of GPP	256	26,5	6.784
ERVET	C17	ADDITIONAL	Junior Researcher/Enhancement of GPP	160	73	11.680
ERVET	D1	NON ADDITIONAL	Project Manager/Coordinator of the help desk and training on the web-based tool for the environmental accountability system	389	0,2	78
ERVET	D1	ADDITIONAL	Senior Researcher/Assistance to the help desk and training	256	3,3	845
ERVET	D1	ADDITIONAL	Junior Researcher/help desk	160	8,3	1.328
ERVET	E1	NON ADDITIONAL	Project Manager/coordinator of information and public awareness raising activities	389	23,3	9.064
ERVET	E1	ADDITIONAL	Senior Researcher/development of information and public awareness raising activities	256	38,3	9.805
ERVET	E1	ADDITIONAL	Junior Researcher/Support to the development of the information activities	160	90	14.400
ERVET	E2	NON ADDITIONAL	Project Manager/coordinator of actions in support to single communication campaigns	389	19	7.391
ERVET	E2	ADDITIONAL	Senior Researcher/development of actions in support of single communication campaigns	256	46,3	11.853
ERVET	E2	ADDITIONAL	Junior Researcher/support to the development of activities in support to single communication campaigns	160	75,8	12.128
ERVET	E6	NON ADDITIONAL	Project Manager/coordinator of networking activities	389	0,2	78
ERVET	E6	ADDITIONAL	Senior Researcher/development of networking activities	256	1	256
ERVET	F1	NON ADDITIONAL	Communication and Information Manager /support to project's coordination	389	50	19.450
ERVET	F1	ADDITIONAL	Senior Researcher/support to project's coordination and actions development	256	76,6	19.610
ERVET	F1	ADDITIONAL	Junior Researcher/support to actions coordination	160	110	17.600
FLA	C6	Non additional	FLA Project Manager/ Technician senior expert/ Supporting dissemination	356	7	2.492
FLA	C6	Non additional	FLA Administrative Management/Supporting FLA action's management	252	5	1.260
FLA	C7	Non additional	FLA Project Manager/ Technician senior expert/ Supporting dissemination	356	7	2.492
FLA	C7	Non additional	FLA Administrative Management/Supporting FLA action's management	252	6	1.512
FLA	C8	additional	FLA Scientific Coordinator/scientific review and training session	400	20	8.000
FLA	C8	Non additional	FLA Project Manager Assistant/Data and good practices collection	131	89	11.659
FLA	C8	Non additional	FLA Communication Assistant/Dissemination and stakeholder involvement	131	33	4.323
FLA	C8	Non additional	FLA Project Manager/Supporting development of study, plan and system	356	85	30.260

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A	B	A X B
				Daily rate	Number of person-days	Direct personnel costs
FLA	C8	Non additional	FLA Administrative Management/Supporting FLA action's management	252	30	7.560
FLA	C9	additional	FLA Scientific Coordinator/Developing and implementation of training action	400	14	5.600
FLA	C9	Non additional	FLA Project Manager Assistant/Supporting the application of training session	131	40	5.240
FLA	C9	Non additional	FLA Communication Assistant/Dissemination and stakeholder involvement	131	35	4.585
FLA	C9	Non additional	FLA Project Manager/Task's coordination and its implementation	356	38	13.528
FLA	C13	Non additional	FLA Project Manager/Supporting the implementation and dissemination	356	8	2.848
FLA	C13	Non additional	FLA Administrative Management/Supporting FLA action's management	252	14	3.528
FLA	C13	additional	FLA Scientific Coordinator/Scientific review and training session	400	8	3.200
FLA	C13	Non additional	FLA Communication Assistant/Dissemination and stakeholder consultation	131	7	917
FLA	E2	additional	FLA Scientific Coordinator/scientific contribution to the video	400	2	800
FLA	E2	Non additional	FLA Communication and Graphic Expert/Supporting development of activities in support to single communication campaigns	241	10	2.410
FLA	E2	Non additional	FLA Project Manager/Supporting development of activities in support to single communication campaigns	356	6	2.136
FLA	E2	Non additional	FLA Administrative Management /Supporting FLA action's management	252	8	2.016
FLA	E3	Non additional	FLA Project Manager/Supporting the communication strategy and dissemination	356	9	3.204
FLA	E3	Non additional	FLA Administrative Management/Supporting the FLA action's management	252	9	2.268
FLA	E5	additional	FLA Scientific Coordinator/Scientific review and training session	400	8	3.200
FLA	E5	Non additional	FLA Communication and Graphic Expert/Supporting development of teaching materials	241	33	7.953
FLA	E5	Non additional	FLA Communication Assistant/Supporting development of teaching materials	131	35	4.585
FLA	E5	Non additional	FLA Project Manager/Supporting the development, testing and implementation of educ.paths	356	32	11.392
FLA	E5	Non additional	FLA Administrative Management /Supporting FLA action's management	252	8	2.016
FLA	E6	Non additional	FLA Project Manager Assistant/Supporting the networking	131	5	655
FLA	F1	Non additional	FLA Project Manager/Supporting project's coordination	356	13	4.628
FLA	F1	Non additional	FLA Administrative Management/Supporting the financial management	252	18	4.536
FLA	F1	Non additional	FLA Communication and Graphic Expert/Supporting the partner's communication	241	17	4.097
FLA	F1	Non additional	FLA Director/Institutional relationships	551	10	5.510
PHASE 2						
RER	C4					39.280
RER	C5					29.280
RER	C6					260
RER	C7					800
RER	C8					1.150
RER	C9					22.900
RER	C10					1.000
RER	C11					46.000
RER	C12					51.750
RER	C13					5.000
RER	C14					1.190
RER	C15					41.750
RER	C16					1.190
RER	C17					38.750
RER	D1					5.000
RER	E1					500
RER	E2					500
RER	E3					2.000
RER	E5					3.000
RER	E6					850
RER	F1					130.350
VENETO	C4					39.180
REGION						
VENETO	C5					32.480
REGION						
VENETO	C6					16.620
REGION						
VENETO	C7					16.490
REGION						
VENETO	C8					330
REGION						
VENETO	C10					2.300
REGION						
VENETO	C11					19.305
REGION						
VENETO	C12					14.150
REGION						
VENETO	C13					10.350
REGION						
VENETO	C14					2.495
REGION						
VENETO	C15					41.070
REGION						
VENETO	C16					14.825
REGION						
VENETO	C17					25.800
REGION						
VENETO	D1					3.980
REGION						
VENETO	E1					500
REGION						
VENETO	E3					2.000
REGION						
VENETO	E4					7.750
REGION						
VENETO	E6					850
REGION						
VENETO	F1					57.000
REGION						
VENETO	F3					2.000
REGION						
Lombardy	C4					9.814
Region						

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs						
Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		Direct personnel costs
				A Daily rate	B Number of person-days	
Lombardy Region	C5					2.289
Lombardy Region	C6					1.415
Lombardy Region	C7					2.744
Lombardy Region	C8					1.552
Lombardy Region	C9					12.614
Lombardy Region	C13					4.704
Lombardy Region	C16					784
Lombardy Region	D1					1.870
Lombardy Region	E1					4.220
Lombardy Region	E2					3.414
Lombardy Region	E3					9.554
Lombardy Region	E5					1.164
Lombardy Region	E6					388
Lombardy Region	F1					17.083
Lombardy Region	F3					459
PIEDMONT REGION	C4					10.717
PIEDMONT REGION	C5					22.531
PIEDMONT REGION	C6					2.200
PIEDMONT REGION	C7					6.000
PIEDMONT REGION	C8					1.700
PIEDMONT REGION	C9					30.000
PIEDMONT REGION	C10					21.102
PIEDMONT REGION	C11					29.905
PIEDMONT REGION	C12					7.500
PIEDMONT REGION	C13					30.000
PIEDMONT REGION	C14					7.000
PIEDMONT REGION	C15					23.892
PIEDMONT REGION	C16					14.000
PIEDMONT REGION	C17					30.000
PIEDMONT REGION	D1					4.000
PIEDMONT REGION	E2					1.700
PIEDMONT REGION	E3					1.700
PIEDMONT REGION	E4					18.000
PIEDMONT REGION	E5					2.000
PIEDMONT REGION	E6					620
PIEDMONT REGION	F1					60.000
PIEDMONT REGION	F3					3.400
RAFVG	C4					1.900
RAFVG	C5					1.900
RAFVG	C6					10.000
RAFVG	C7					8.000
RAFVG	C8					1.800
RAFVG	C9					8.000
RAFVG	C10					450
RAFVG	C11					1.900
RAFVG	C12					10.000
RAFVG	C13					14.195
RAFVG	C14					1.350
RAFVG	C15					30.290
RAFVG	C16					7.000
RAFVG	C17					36.000
RAFVG	D1					3.100
RAFVG	E1					300
RAFVG	E3					1.600
RAFVG	E4					7.000
RAFVG	E5					750

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A Daily rate	B Number of person-days	A X B Direct personnel costs
RAFGV	E6					700
RAFGV	F1					30.000
RAFGV	F3					1.700
PROVINCE OF TRENTO	C4					700
PROVINCE OF TRENTO	C5					700
PROVINCE OF TRENTO	C6					14.650
PROVINCE OF TRENTO	C7					13.160
PROVINCE OF TRENTO	C8					3.200
PROVINCE OF TRENTO	C13					6.300
PROVINCE OF TRENTO	C15					21.460
PROVINCE OF TRENTO	C16					11.288
PROVINCE OF TRENTO	C17					20.000
PROVINCE OF TRENTO	D1					2.500
PROVINCE OF TRENTO	D2					1.800
PROVINCE OF TRENTO	D4					920
PROVINCE OF TRENTO	E1					2.200
PROVINCE OF TRENTO	E2					1.300
PROVINCE OF TRENTO	E3					7.500
PROVINCE OF TRENTO	E4					4.800
PROVINCE OF TRENTO	E5					2.000
PROVINCE OF TRENTO	E6					620
PROVINCE OF TRENTO	F1					80.660
PROVINCE OF TRENTO	F3					3.300
Arpae	C1					278.425
Arpae	C3					31.250
Arpae	C5					4.700
Arpae	D2					2.170
Arpae	D5					103.653
Arpae	D6					12.500
Arpae	E1					500
Arpae	E6					500
Arpae	F1					54.100
ARPAV	C1					16.152
ARPAV	C2					900
ARPAV	C3					6.574
ARPAV	D2					2.336
ARPAV	D3					42.857
ARPAV	D5					3.287
ARPAV	D6					8.823
ARPAV	E1					692
ARPAV	E5					1.080
ARPAV	E6					346
ARPAV	F1					41.385
ARPA	C1					17.000
ARPA PIEMONTE	C3					116.000
ARPA PIEMONTE	C5					9.500
ARPA PIEMONTE	D2					2.000
ARPA PIEMONTE	D4					22.500
ARPA PIEMONTE	D5					77.000
ARPA PIEMONTE	D6					10.000
ARPA PIEMONTE	E1					650
ARPA PIEMONTE	E6					650
ARPA PIEMONTE	F1					58.500
ARPA LOMB	C1					21.936
ARPA LOMB	C2					13.104
ARPA LOMB	C3					9.808
ARPA LOMB	D2					26.746
ARPA LOMB	D5					40.272
ARPA LOMB	D6					159.888
ARPA LOMB	E1					800
ARPA LOMB	E3					3.200
ARPA LOMB	E6					448
ARPA LOMB	F1					56.800

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs

Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		
				A Daily rate	B Number of person-days	A X B Direct personnel costs
ARPA VDA	C1					8.550
ARPA VDA	C3					8.550
ARPA VDA	D2					3.420
ARPA VDA	D5					5.130
ARPA VDA	D6					12.825
ARPA VDA	E1					855
ARPA VDA	E6					855
ARPA VDA	F1					9.000
ARPA FVG	C1					7.000
ARPA FVG	C3					1.350
ARPA FVG	D2					4.150
ARPA FVG	D5					1.500
ARPA FVG	D6					6.150
ARPA FVG	E1					1.500
ARPA FVG	E6					1.500
ARPA FVG	F1					5.400
ARSO	C1					51.612
ARSO	C3					13.664
ARSO	D2					2.299
ARSO	D4					1.149
ARSO	D5					70.230
ARSO	D6					2.498
ARSO	E6					749
ARSO	F1					23.136
COBO	E1					719
COBO	C17					62.875
COBO	E4					10.069
COBO	F1					32.224
COBO	C9					36.715
COBO	C11					4.467
Milan	C9					60.400
Milan	E1					1.200
Milan	E4					13.000
Milan	E6					400
Milan	F1					6.400
CDT	C9					40.920
CDT	C11					14.340
CDT	E4					3.300
CDT	F1					39.850
CDT	E1					1.040
CDT	E6					540
ERVET	C1					5.000
ERVET	C17					60.102
ERVET	D1					9.088
ERVET	E1					33.269
ERVET	E2					41.861
ERVET	E6					334
ERVET	F1					56.660
FLA	C6					7.816
FLA	C7					7.816
FLA	C8					63.768
FLA	C9					27.846
FLA	C13					9.321
FLA	E1					482
FLA	E2					11.799
FLA	E3					6.644
FLA	E5					18.758
FLA	E6					655
FLA	F1					20.260
PHASE 3						
RER	C6					250
RER	C7					531
RER	C8					1.150
RER	C9					5.000
RER	C10					1.000
RER	C13					5.000
RER	C14					1.190
RER	C16					1.190
RER	D1					5.000
RER	E1					500
RER	E2					500
RER	E3					1.500
RER	E5					3.000
RER	E6					850
RER	F1					130.350
RER	F3					3.000
VENETO	C6					16.470
REGION						
VENETO	C7					16.400
REGION						
VENETO	C8					330
REGION						
VENETO	C12					14.150
REGION						
VENETO	C13					10.350
REGION						
VENETO	C14					2.495
REGION						
VENETO	C16					14.825
REGION						
VENETO	C17					4.000
REGION						

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs						
Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		Direct personnel costs
				A Daily rate	B Number of person-days	
VENETO REGION	D1					3.980
VENETO REGION	E1					500
VENETO REGION	E3					980
VENETO REGION	E4					7.750
VENETO REGION	E6					550
VENETO REGION	F1					61.065
VENETO REGION	F3					2.905
Lombardy Region	C6					870
Lombardy Region	C7					2.744
Lombardy Region	C8					1.226
Lombardy Region	C9					12.614
Lombardy Region	C13					3.920
Lombardy Region	C16					1.281
Lombardy Region	D1					1.676
Lombardy Region	E1					1.592
Lombardy Region	E2					1.032
Lombardy Region	E3					8.625
Lombardy Region	E5					1.164
Lombardy Region	E6					194
Lombardy Region	F1					13.416
Lombardy Region	F3					459
PIEDMONT REGION	C6					2.050
PIEDMONT REGION	C7					6.761
PIEDMONT REGION	C8					1.000
PIEDMONT REGION	C9					26.156
PIEDMONT REGION	C12					7.000
PIEDMONT REGION	C13					25.000
PIEDMONT REGION	C14					7.322
PIEDMONT REGION	C16					12.425
PIEDMONT REGION	C17					10.179
PIEDMONT REGION	D1					3.703
PIEDMONT REGION	E2					1.562
PIEDMONT REGION	E3					1.562
PIEDMONT REGION	E4					17.577
PIEDMONT REGION	E4					2.000
PIEDMONT REGION	E6					602
PIEDMONT REGION	F1					66.797
PIEDMONT REGION	F3					4.005
RAFGV	C6					3.870
RAFGV	C7					7.895
RAFGV	C8					300
RAFGV	C9					7.895
RAFGV	C12					6.745
RAFGV	C13					11.610
RAFGV	C14					1.200
RAFGV	C16					2.785
RAFGV	C17					28.975
RAFGV	D1					3.000
RAFGV	E1					400
RAFGV	E3					1.200
RAFGV	E4					5.785
RAFGV	E5					500
RAFGV	E6					700
RAFGV	F1					40.380
RAFGV	F3					1.595

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs						
Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		Direct personnel costs
				A Daily rate	B Number of person-days	
PROVINCE OF TRENTO	C6					14.650
PROVINCE OF TRENTO	C7					13.160
PROVINCE OF TRENTO	C13					6.300
PROVINCE OF TRENTO	C16					11.200
PROVINCE OF TRENTO	C17					9.040
PROVINCE OF TRENTO	D1					2.600
PROVINCE OF TRENTO	D2					1.800
PROVINCE OF TRENTO	E1					2.200
PROVINCE OF TRENTO	E2					1.188
PROVINCE OF TRENTO	E3					4.060
PROVINCE OF TRENTO	E4					4.120
PROVINCE OF TRENTO	E5					1.560
PROVINCE OF TRENTO	E6					620
PROVINCE OF TRENTO	F1					80.660
PROVINCE OF TRENTO	F3					3.300
Arpae	D2					2.170
Arpae	D5					161.347
Arpae	D6					13.030
Arpae	E1					840
Arpae	E6					1.000
Arpae	F1					64.255
ARPAV	D2					2.335
ARPAV	D3					42.858
ARPAV	D5					5.363
ARPAV	D6					8.996
ARPAV	E1					692
ARPAV	E5					540
ARPAV	E6					346
ARPAV	F1					51.650
ARPA	D2					2.000
PIEMONTE						
ARPA	D4					22.500
PIEMONTE						
ARPA	D5					123.000
PIEMONTE						
ARPA	D6					10.000
PIEMONTE						
ARPA	E1					650
PIEMONTE						
ARPA	E6					650
PIEMONTE						
ARPA	F1					58.500
PIEMONTE						
ARPA LOMB	D2					26.234
ARPA LOMB	D5					64.741
ARPA LOMB	D6					160.088
ARPA LOMB	E1					800
ARPA LOMB	E3					3.600
ARPA LOMB	E6					560
ARPA LOMB	F1					56.400
ARPA VDA	D2					2.565
ARPA VDA	D5					5.130
ARPA VDA	D6					12.825
ARPA VDA	E1					855
ARPA VDA	E6					855
ARPA VDA	F1					10.800
ARPA FVG	D2					2.250
ARPA FVG	D5					3.100
ARPA FVG	D6					6.150
ARPA FVG	E1					1.500
ARPA FVG	E6					750
ARPA FVG	F1					7.200
ARSO	D2					4.597
ARSO	D5					81.388
ARSO	D6					2.498
ARSO	E1					3.441
ARSO	E6					499
ARSO	F1					34.623
COBO	E1					719
COBO	E4					10.069
COBO	F1					31.932
COBO	C9					36.715
COBO	C11					564
Milan	C9					60.400
Milan	E1					1.200
Milan	E4					20.000
Milan	E6					1.600
Milan	F1					20.100

FORM F1

Proposal acronym: LIFE-IP PREPAIR

Direct Personnel costs						
Beneficiary short name	Action number	Type of staff	Category/Role in the project	Calculation =>		Direct personnel costs
				A Daily rate	B Number of person-days	
CDT	C9					25.000
CDT	F4					3.900
CDT	F1					37.000
CDT	E6					500
ERVET	C17					7.349
ERVET	D1					9.088
ERVET	E1					33.269
ERVET	E2					41.861
ERVET	E6					334
ERVET	F1					56.660
FLA	C6					7.846
FLA	C7					7.846
FLA	C8					31.874
FLA	C13					9.321
FLA	E1					603
FLA	E2					11.799
FLA	E3					6.392
FLA	E5					18.758
FLA	E6					655
FLA	F1					20.260

FORM F2

Travel and subsistence costs

Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Calculation =>		
				A	B	A + B
				Travel costs	Subsistence costs	Total travel and subsistence costs
Phase 1						
RER	A2	BOLOGNA-MILANO/TORINO/VENEZIA/TRENTO-BOLOGNA	PARTNERS MEETING FOR THE IMPLEMENTATION OF THE ACTION AND MEASURE DATASET/2 TRAVELS/2 PERSONS/1 DAY	600	400	1.000
RER	C4	BOLOGNA-REGGIO EMILIA/PARMA/MODENA/PIACENZA-BOLOGNA	STUDY VISITS/4 TRAVELS/4 PERSONS/1 DAY	1.800	200	2.000
RER	C5	BOLOGNA-REGGIO EMILIA/PARMA/MODENA/PIACENZA-BOLOGNA	STUDY VISITS/4 TRAVELS/4 PERSONS/1 DAY	1.800	200	2.000
RER	C6	BOLOGNA/TRENTO – TRENTO/BOLOGNA	PRELIMINARY MEETINGS FOR ORGANIZATION OF TRAINING COURSES	100	40	140
RER	C7	BOLOGNA/TRENTO – TRENTO/BOLOGNA	PRELIMINARY MEETINGS FOR ORGANIZATION OF TRAINING COURSES	200	80	280
RER	C8	BOLOGNA/MILAN MILAN/BOLOGNA	PRELIMINARY MEETINGS TO DEFINE ACTIVITIES	480	120	600
RER	C9	BOLOGNA-MILANO/TORINO/VENEZIA/TRENTO-BOLOGNA	PARTNERS MEETING FOR THE IMPLEMENTATION OF THE ACTION AND MEASURE DATASET/4 TRAVELS/3 PERSONS/1 DAY	1.000	1.000	2.000
RER	C10	BOLOGNA/TORINO-TORINO/BOLOGNA	PAERTICIPATION TO THE STAKEHOLDER CONSULTATION	500	500	1.000
RER	C11	BOLOGNA-MILANO/TORINO/VENEZIA/TRENTO-BOLOGNA	PARTNERS MEETING FOR THE IMPLEMENTATION OF THE ACTION AND MEASURE DATASET/4 TRAVELS/3 PERSONS/1 DAY	1.400	600	2.000
RER	C13	BOLOGNA/TORINO-TORINO/BOLOGNA	PAERTICIPATION TO THE STAKEHOLDER CONSULTATION AND PLANNING OF TRAINING SESSIONS	500	500	1.000
RER	C14	BOLOGNA/TORINO-TORINO/BOLOGNA	PLANNING OF TRAINING SESSIONS	250	250	500
RER	C15	BOLOGNA-MILANO/TORINO/VENEZIA/TRENTO-BOLOGNA	PARTNERS MEETING FOR THE IMPLEMENTATION OF THE ACTION AND MEASURE DATASET/4 TRAVELS/3 PERSONS/1 DAY	1.400	600	2.000
RER	C16	BOLOGNA/TRENTO – TRENTO/BOLOGNA	PRELIMINARY MEETINGS FOR ORGANIZATION OF TRAINING COURSES	350	140	490
RER	C17	BOLOGNA-MILANO/TORINO/VENEZIA/TRENTO-BOLOGNA	PARTNERS MEETING FOR THE IMPLEMENTATION OF THE ACTION AND MEASURE DATASET/4 TRAVELS/3 PERSONS/1 DAY	800	200	1.000
RER	E3	BOLOGNA - MILAN MILAN/BOLOGNA	MEETING FOR THE DEFINITION OF THE CONTENTS OF TRAINING PACKAGE	400	100	500
RER	E5	BOLOGNA/MILAN-MILAN/BOLOGNA	MEETINGS FOR EDUCATIONAL PATHS AND TOOLS DEVELOPMENT	320	80	400
RER	F1	BOLOGNA-MILANO/TORINO/VENEZIA/TRENTO-BOLOGNA	PROJECT MANAGEMENT MEETINGS/2 TRAVELS/4 PERSONS/1 DAY	600	400	1.000
RER	F1	BOLOGNA-BRUXELLES BRUXELLES-BOLOGNA	MEETING WITH CERTIFYING CONTRACTING AUTHORITY/1 TRAVEL/4 PERSONS/1 DAY	1.000	500	1.500
VENETO REGION	A2	PROJECT AREA:Venezia- Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS	600	300	900
VENETO REGION	C4	PROJECT AREA:Venezia- Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS	600	400	1.000
VENETO REGION	C5	PROJECT AREA:Venezia- Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS	600	400	1.000
VENETO REGION	C10	PROJECT AREA:Venezia- Torino	TRAVEL FOR THE DEMONSTRATIVE ACTIONS/3 TRIPS/2 PERSONS/1 DAY	200	300	500
VENETO REGION	C11	PROJECT AREA: VENEZIA - BOLOGNA/MILANO/TORINO/TRENTO	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS/1 DAY	600	400	1.000
VENETO REGION	C13	PROJECT AREA: Venezia- Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS/1 DAY	150	150	300
VENETO REGION	C15	PROJECT AREA: VENEZIA - BOLOGNA/MILANO/TORINO/TRENTO	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/4 TRIPS/4 PERSONS/1 DAY	250	250	500
VENETO REGION	C16	PROJECT AREA: Venezia - Trento	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/4 TRIPS/4 PERSONS/1 DAY	250	250	500
VENETO REGION	C17	PROJECT AREA: VENEZIA - BOLOGNA/MILANO/TORINO/TRENTO	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS/1 DAY	200	200	400
VENETO REGION	E3	PROJECT AREA Venezia- Padova/Treviso/Verona/Vicenza/Belluno/Rovigo	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS/1 DAY	100	200	300

FORM F2

Travel and subsistence costs

Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Calculation =>		
				A	B	A + B
				Travel costs	Subsistence costs	Total travel and subsistence costs
VENETO REGION	E4	PROJECT AREA: Venezia - Padova/Verona	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS/1 DAY	100	200	300
VENETO REGION	F1	PROJECT AREA: Venice-Bologna/trento Torino	MANAGEMENT MEETINGS/3 TRIPS/2 PERSONS/2 DAYS	800	400	1.200
VENETO REGION	F1	PROJECT AREA	MANAGEMENT MEETINGS/3 TRIPS/2 PERSONS/2 DAYS	800	400	1.200
VENETO REGION	F1	VENEZIA-BRUXELLES	MEETING WITH CERTIFYING CONTRACTING AUTHORITY/1 TRIP/1 PERSONS/1 DAY	600	400	1.000
Lombardy Region	A2	FROM MILAN TO BOLOGNA/VENEZIA/TORINO	Coordinating the misures of the action A2/3 trips/2 persons/1 day for each travel	700	300	1.000
Lombardy Region	C4	FROM MILAN TO BRESCIA/CREMONA/MANTOVA	Visiting farms where "best practices" developed in the action C4 are implemented.	800	300	1.100
Lombardy Region	C9	FROM MILAN TO BERGAMO/BRESCIA/CREMONA/COMO	going to the cities where training is proposed/4 trips/4 persons travelling, one days for each travel	433	180	613
Lombardy Region	C13	FROM MILAN TO ROME	going to Rome in order to participate to the stakeholder consultation concerning electric mobility issues /4 trips, 2 persons, 1 days for each trip.	120	952	1.072
Lombardy Region	E1	FROM MILAN TO BOLOGNA	project Conference/2 persons/1 day	30	110	140
Lombardy Region	E2	FROM MILAN TO BOLOGNA	Thematic Conference/1 trip and 2 persons travelling/ 1 day of trip	30	168	198
Lombardy Region	E3	FROM MILAN TO LECCO/PAVIA	meeting to three cities (Milano, Lecco and Pavia) with ARPA Lombardia in order to inform people about how to properly use biomass for energy/one person for one day for each trip.	26	45	71
Lombardy Region	F1	FROM MILAN TO BRUXELLES	MEETING WITH CERTIFYING CONTRACTING AUTHORITY 1 TRIP/2 PERSON/1 DAY	1.000	824	1.824
Lombardy Region	F1	FROM MILAN TO BOLOGNA/VENEZIA/TRENTO	project meeting (3 trips and 2 persons travelling for each trip/1 day for each trip)	215	175	390
Lombardy Region	F3	FROM MILAN TO BOLOGNA/VENEZIA/TORINO	meeting between the beneficiaries in order to manage the governance infrastructure.	250	83	333
PIEDMONT REGION	A2	Turin/Bologna	Action meeting/4 trips and 2 persons, duration: 1 day each	400	200	600
PIEDMONT REGION	C4	Turin/Bologna	Action meeting/6 trips and 2 persons, duration: 1 day each	600	300	900
PIEDMONT REGION	C5	Turin/Bologna	Action meeting/6 trips and 3 persons, duration: 1 day each	600	300	900
PIEDMONT REGION	C7	Turin/Trento	Action meeting/2 trips and 2 persons, duration: 1 day each	240	100	340
PIEDMONT REGION	C9	Turin/Bologna	Action meeting/6 trips and 3 persons, duration: 1 day each	600	300	900
PIEDMONT REGION	C10	Turin/project area	Project area visit/6 trips and 2 persons, duration 1 day each	480	300	780
PIEDMONT REGION	C11	Turin/Bologna	Action meeting/3 trips and 2 persons, duration: 1 day each	300	150	450
PIEDMONT REGION	C13	Turin/Rome	Action meeting/4 trips and 2 persons, duration: 1 day each	880	200	1.080
PIEDMONT REGION	C14	Turin/project area	Project area visit/6 trips and 2 persons, duration 1 day each	480	300	780
PIEDMONT REGION	C15	Turin/Bologna	Action meeting/4 trips and 2 persons, duration: 1 day each	400	200	600
PIEDMONT REGION	C16	Turin/Trento	Action meeting/4 trips and 2 persons, duration: 1 day each	480	200	680
PIEDMONT REGION	C17	Turin/Bologna	Action meeting/4 trips and 2 persons, duration: 1 day each	400	200	600
PIEDMONT REGION	E1	Turin/Bologna	Project Conference/1 trip and 2 persons, duration: 1 or 2 days	100	200	300
PIEDMONT REGION	E2	Turin/Milano	Thematic Conference/1 trip and 3 persons, duration: 1 day	90	75	165
PIEDMONT REGION	E5	Turin/Milano	Action meeting/2 trip and 1 person, duration: 1 day	80	50	130
PIEDMONT REGION	F1	Turin/Bologna/Venezia/Milano	Project Meeting-Project Conference-Thematic Conference/4 trips and 2 persons, duration: 1 or 2 days	1.600	1.000	2.600
RAFGV	A2	PROJECT AREA/Trieste-Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS	600	400	1.000
RAFGV	C4	PROJECT AREA/Trieste-Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C5	PROJECT AREA/Trieste-Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C6	PROJECT AREA/Trieste-Milano	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500

FORM F2

Travel and subsistence costs

Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Calculation =>		
				A Travel costs	B Subsistence costs	A + B Total travel and subsistence costs
RAFGV	C7	PROJECT AREA/Trieste-Milano	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C8	PROJECT AREA/Trieste-Milano	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C9	PROJECT AREA/Trieste-Torino	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C10	PROJECT AREA/Trieste-Torino	TRAVEL FOR THE DEMONSTRATIVE ACTIONS/2 TRIPS/2 PERSONS/1 DAY	600	400	1.000
RAFGV	C11	PROJECT AREA/Trieste-Torino	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C12	PROJECT AREA/Trieste-Torino	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C13	PROJECT AREA/Trieste-Torino	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C14	PROJECT AREA/Trieste-Torino	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C15	PROJECT AREA/Trieste-Trento	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS	600	400	1.000
RAFGV	C16	PROJECT AREA/Trieste-Trento	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	C17	PROJECT AREA/Trieste-Trento	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS	600	400	1.000
RAFGV	E3	PROJECT AREA/Trieste-Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/2 PERSONS/1 DAY	300		300
RAFGV	E4	PROJECT AREA/Trieste-Bologna	MEETINGS FOR THE IMPLEMENTATION OF THE ACTION/2 TRIPS/1 PERSONS	300	200	500
RAFGV	F1	PROJECT AREA/Trieste-Bologna/Torino/Trento	MANAGEMENT MEETINGS/6 TRIPS/2 PERSONS/2 DAYS	1.800	1.200	3.000
RAFGV	F1	TRIESTE-BRUXELLES	MEETING WITH CERTIFYING CONTRACTING AUTHORITY/1 TRIP/1 PERSONS/1 DAY	600	400	1.000
PROVINCE OF TRENTO	F1	TRENTO-BOLOGNA	KICK-OFF MEETING AND OTHER PROJECT MANAGEMENT MEETINGS	1.700	800	2.500
PROVINCE OF TRENTO	C6	TRENTO-PROJECT AREA	PRELIMINARY MEETINGS FOR ORGANIZATION OF TRAINING COURSES.	800	200	1.000
PROVINCE OF TRENTO	C7	TRENTO-PROJECT AREA	PRELIMINARY MEETINGS FOR ORGANIZATION OF TRAINING COURSES.	1.800	700	2.500
PROVINCE OF TRENTO	C8	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	400	100	500
PROVINCE OF TRENTO	C13	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	2.000	500	2.500
PROVINCE OF TRENTO	C15	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	800	200	1.000
PROVINCE OF TRENTO	C16	TRENTO-PROJECT AREA	PRELIMINARY MEETINGS FOR ORGANIZATION OF TRAINING COURSES.	800	200	1.000
PROVINCE OF TRENTO	C17	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	1.200	800	2.000
PROVINCE OF TRENTO	A1	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	800	200	1.000
PROVINCE OF TRENTO	A2	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	400	100	500
PROVINCE OF TRENTO	E3	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	400	100	500
PROVINCE OF TRENTO	C4	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	600	400	1.000
PROVINCE OF TRENTO	C5	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	600	400	1.000
PROVINCE OF TRENTO	E1	TRENTO-PROJECT AREA	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	1.100	400	1.500
Arpae	A1	Project Area - From Bologna to other partners premises (to be defined)	Meetings within partners involved for action development/3 trips/2 persons travelling/3 days	360	140	500

FORM F2

Travel and subsistence costs

Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Calculation =>		
				A Travel costs	B Subsistence costs	A + B Total travel and subsistence costs
Arpae	A2	Project Area - From Bologna to other partners premises (to be defined)	Meetings within partners involved for action development/5 trips/2 persons travelling/5 days	700	300	1.000
Arpae	A3	Europe (country to be defined) - from Bologna IT to destination to be defined.	Participation to national and/or European meetings about AQ assessment and related topics (i.e. Copernicus, FairMode, other meetings / 1 trip / 2 persons)travelling/2 days	1.400	600	2.000
Arpae	A4	Project Area- - From Bologna to other partners premises (to be defined)	Meetings within partners involved for action development/3 trips/2 persons travelling/4 days	480	270	750
Arpae	C1	Project Area - From Bologna to other partners premises (to be defined)	Meetings within partners involved for action development/2 trips/3 persons travelling/2 days	480	150	630
Arpae	C1	Europe (country to be defined) - From Bologna to destination to be defined.	Participation to national and/or European meetings about AQ assessment and related topics (i.e. Copernicus, FairMode, other meetings / 1 trip / 2 persons)travelling/2 days	1.400	600	2.000
Arpae	C3	Project Area - From Bologna to other partners premises (to be defined)	Meetings within partners involved for action development/1 trip /3 persons travelling/2 days	240	600	840
Arpae	C3	Italy (place to be defined) - From Bologna to Ispra (Va), Milan, Turin	meetings with the EU-JRC and OPERA partners owner of RIAT+ (travel to Ispra (Va), Milan, Turin, Bologna)	700	300	1.000
Arpae	D6	Project Area - from Bologna to other cities in Italy (Venezia, Milano, Torino + other cities in Northern Italy)	Meetings within partners involved for action development/1 trip/1 person travelling/1 day	80	25	105
Arpae	F1	Project Area - from Bologna to other cities in Italy (Trieste, Venezia, Milano, Torino + other cities in Northern Italy)	Meetings within partners involved for action development/5 trips/3 persons travelling/6 days	1.125	900	2.025
ARPAV	A1	Venice/Milan	Action meeting: coordination meetings in order to homogenized emission inventories/2 trips and 2 persons, duration: 1 day each	440	80	520
ARPAV	A4	Venice/Milan	Action meeting coordination meetings in order to set up special monitoring station/3 trips and 2 persons, duration: 1 day each	660	120	780
ARPAV	C1	Venice/Bologna	Action meeting coordinatin meetings in order to set and homogeneized dispersion modelling/2 trips and 3 persons, duration: 1 day each	240	120	360
ARPAV	D6	Venice/Milan	Action meeting in order to verify actions impact/1 trip and 1 person, duration: 1 day	110	20	130
ARPAV	E1	Venice/Bologna	Project Conference/1 trip and 3 persons, duration: 1 day	120	60	180
ARPAV	E2	Venice to Milan/Trento/Turin	Dissemination Conference on the project topics/3 trips and 2 persons, duration: 1 or 2 days depending on the destination	520	290	810
ARPAV	F1	Venice to Bologna/Trento/Turin	Project Meetings: Kick off meeting and management meetings/4 trips and 2 persons, duration: 1 or 2 days depending on the destination	600	370	970
ARPA PIEMONTE	A4	Turin/Milan	Action meeting/4 trips and 3 persons, duration: 1 day each	510	240	750
ARPA PIEMONTE	C1	Turin/Bologna	Action meeting/2 trips and 3 persons, duration: 1 day each	300	200	500
ARPA PIEMONTE	C3	Project area	Action meeting/6 trips and 5 persons, duration: 1 day each	1.500	1.000	2.500
ARPA PIEMONTE	D6	Turin/Milan	Action meeting/2 trips and 2 persons, duration: 1 day each	120	80	200
ARPA PIEMONTE	F1	Project area	Project Meeting-Project Conference-Thematic Conference/4 trips and 2 persons, duration: 1 or 2 days depending on the destination	1.600	400	2.000
ARPA LOMB	A1	MILANO-BOLOGNA/TORINO/VENEZIA/TRENTO/project area	Meetings within partners involved for action development/5 trips/1 persons travelling/2 days	350	150	500
ARPA LOMB	A1	MILANO- Europe (country to be defined)	Participation to national and/or European meetings about emission inventory (i.e. EMEP TFEIP meeting, FAIRMODE meeting / 1 trip / 2 persons)travelling/2 days)	1.000	500	1.500
ARPA LOMB	A2	MILANO-BOLOGNA/TORINO/VENEZIA/TRENTO/project area	Meetings within partners involved for action development/5 trips/2 persons travelling/2 days	700	300	1.000

FORM F2

Travel and subsistence costs

Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Calculation =>		
				A	B	A + B
				Travel costs	Subsistence costs	Total travel and subsistence costs
ARPA LOMB	A4	MILANO - LONDRA	Participation to ICAPC (International Conference on Air Pollution and Control) May 2017 to compare and discuss methods and results with the international community / 1 trip / 4 persons travelling/ 3 days	1.600	2.200	3.800
ARPA LOMB	A4	MILANO-BOLOGNA/TORINO/VENEZIA/TRENTO/project area	Meetings within partners involved for action development/6 trips/2 persons travelling/2 days	840	360	1.200
ARPA LOMB	C1	MILANO-BOLOGNA/TORINO/VENEZIA/TRENTO/project area	Meetings within partners involved for action development/2 trips/1 persons travelling/2 days	160	150	310
ARPA LOMB	F1	MILANO-BOLOGNA/TORINO/VENEZIA/TRENTO/project area	Meetings within partners involved for action development/5 trips/3 persons travelling/6 days	1.125	900	2.025
ARPA VDA	A4	Aosta/Milan	Action meeting/4 trips and 2 persons, duration: 1 day each	240	400	640
ARPA VDA	C1	Aosta/Bologna	Action meeting/2 trips and 2 persons, duration: 1 day each	180	800	980
ARPA VDA	C3	Project area	Action meeting/6 trips and 2 persons, duration: 1 day each	660	2.400	3.060
ARPA VDA	D6	Aosta/Milan	Action meeting/2 trips and 2 persons, duration: 1 day each	120	200	320
ARPA VDA	F1	Project area	Project Meeting-Project Conference-Thematic Conference/4 trips and 3 persons, duration: 1 or 2 days depending on the destination	440	2.400	2.840
ARPA FVG	A4	Palmanova/Milan	Action meeting/4 trips and 2 persons, duration: 1 day each	348	400	748
ARPA FVG	C1	Palmanova/Bologna	Action meeting/2 trips and 2 persons, duration: 1 day each	180	800	980
ARPA FVG	C3	Project area	Action meeting/6 trips and 2 persons, duration: 1 day each	660	2.400	3.060
ARPA FVG	D6	Palmanova/Milan	Action meeting/2 trips and 2 persons, duration: 1 day each	240	300	540
ARPA FVG	F1	Project area	Project Meeting-Project Conference-Thematic Conference/4 trips and 3 persons, duration: 1 or 2 days depending on the destination	330	2.400	2.730
ARSO	E1	Ljubljana – project area	TECHNICAL COORDINATION MEETINGS WITH ACTION'S COORDINATOR AND PROJECT PARTNERS.	750	120	870
ARSO	E1	Ljubljana – info spots spread over Slovenia	NOTICE BOARDS DELIVERIES	3.700		3.700
ARSO	F1	Ljubljana – project area	KICK-OFF MEETING AND OTHER PROJECT MANAGEMENT MEETINGS	6.000	960	6.960
COBO	F1	Bologna-Venezia	Project Meeting Venezia (1 trip for 2 persons, 1 day)	300	120	420
COBO	F1	Bologna-Milano	Project Meeting- Milano+Thematic conference(1 trip for 2 persons, 1 day)	150	60	210
COBO	E1	Bologna-Milano	Project Meeting- Milano+Thematic conference(1 trip for 2 persons, 1 day)	150	60	210
COBO	F1	Bologna-Torino	Project Meeting Torino+Thematic Conference (1 trip for 2 persons, 1 day)	200	60	260
COBO	E1	Bologna-Torino	Project Meeting Torino+Thematic Conference (1 trip for 2 persons, 1 day)	200	60	260
Milan	F1	Milano-Bologna	Kick-off meeting/1 trip/2 persons/1 day	200	50	250
Milan	F1	Milano-Bologna	Project meeting/1 trip/2 persons/1 day	0	280	280
Milan	F1	Milano-Torino	Communication Conference/1 trip/2 persons/1 day	200	50	250
CDT	C9	Turin/Milan	Action meeting/3 trips and 2 persons, duration: 1 day each	400	100	500
CDT	C9	Turin/Austria	Action meeting/21trips and 2 persons, duration: 3day each	800	200	1.000
CDT	C9	Turin/Bologna	Action meeting/3 trips and 2 persons, duration: 3 day each	400	100	500
CDT	C11	Turin/Austria	Action meeting/2 trips and 2 persons, duration: 13day each	2.000	500	2.500
CDT	C11	Turin/Bologna	Action meeting/3 trips and 2 persons, duration: 1 day each	400	100	500
CDT	F1	Turin to Milan/Bologna/Venice	Project Meeting-Project Conference-Thematic Conference/4 trips and 2 persons, duration: 1 or 2 days depending on the destination	1.600	400	2.000
ERVET	A2	From BOLOGNA to the different cities of the Region involved	Meetings within partners involved for action development/5 trips/2 persons traveling/5 days	700	300	1.000
ERVET	E1	From BOLOGNA to the different cities of the Region involved	Meetings within partners involved for action development/8 trips/2 persons traveling/8 days	1.100	566	1.666
ERVET	E2	From BOLOGNA to the different cities of the Region involved	Meetings within partners involved for action development/8 trips/2 persons traveling/8 days	1.100	566	1.666

FORM F2

Travel and subsistence costs

Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Calculation =>		
				A Travel costs	B Subsistence costs	A + B Total travel and subsistence costs
ERVET	E6	From BOLOGNA to the different cities of the Region involved	Meetings within partners involved for action development/2 trips/1 person traveling/2 days	230	103	333
ERVET	F1	From BOLOGNA to the different cities of the Region involved	Meetings within partners involved in the project/24 trips/2 person travelling/48 days	2.500	800	3.300
FLA	C8	From Milano to different site in the Po Basin	To study the systems of biomass supply at local level, some visits in selected pilot area will be organized to investigate the mode of procurement and management of biomass for thermal use	600	360	960
FLA	C8	From Murcia Region to Lombardy Region	Trip of the technicians from Murcia Region to Milano to transfer the know how of the biomass management plans software (1 trip for 2 persons A/R, 1 night in hotel and lunch)	1.700	300	2.000
FLA	C9	From Milano to the 12 different Province of Lombardy Region	The FLA staff will coordinate and organize the Cycling mobility training course, the staff will participate to the 12 training modules (one for every provincial capital of the Lombardy Region). In this phase, at least 4 training courses will be implemented	400	300	700
FLA	E1	From Milano to Bologna	Participation to the project conferences (Kick-off) 2 persons	100	100	200
FLA	E2	From Milano to the different locations of the partners	Coordination of the activities on the Air quality publication	200	180	380
FLA	E5	From Milano to schools in Lombardy Region	Involvement of the schools to test the educational modules	200	180	380
FLA	F1	Lombardy Region to other Region in the Po Basin	Project Meetings	400	200	600

Phase 2

RER	C7					70
RER	C8					400
RER	C9					2.000
RER	C10					500
RER	C11					3.000
RER	C12					2.000
RER	C10					500
RER	C16					210
RER	C17					1.000
RER	E3					200
RER	E5					600
RER	F1					1.500
VENETO REGION	C4					1.000
VENETO REGION	C5					1.000
VENETO REGION	C6					1.000
VENETO REGION	C7					500
VENETO REGION	C10					500
VENETO REGION	C11					1.000
VENETO REGION	C12					1.000
VENETO REGION	C13					300
VENETO REGION	C15					1.500
VENETO REGION	C16					1.100
VENETO REGION	C17					600
VENETO REGION	E3					300
VENETO REGION	E4					300
VENETO REGION	F1					3.500
Lombardy Region	C4					1.100
Lombardy Region	C7					250
Lombardy Region	C9					693
Lombardy Region	C13					1.072

FORM F2

Travel and subsistence costs

		Calculation =>		A	B	A + B
Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Travel costs	Subsistence costs	Total travel and subsistence costs
Lombardy Region	E1					135
Lombardy Region	E2					444
Lombardy Region	E3					56
Lombardy Region	F1					3.232
Lombardy Region	F3					334
PIEDMONT REGION	C4					900
PIEDMONT REGION	C5					900
PIEDMONT REGION	C7					800
PIEDMONT REGION	C9					1.200
PIEDMONT REGION	C10					600
PIEDMONT REGION	C11					1.200
PIEDMONT REGION	C12					900
PIEDMONT REGION	C13					1.800
PIEDMONT REGION	C14					700
PIEDMONT REGION	C15					1.000
PIEDMONT REGION	C16					1.500
PIEDMONT REGION	C17					1.500
PIEDMONT REGION	E1					200
PIEDMONT REGION	E2					1.500
PIEDMONT REGION	E5					130
PIEDMONT REGION	F1					5.000
RAFVG	C4					500
RAFVG	C5					500
RAFVG	C6					500
RAFVG	C7					500
RAFVG	C8					500
RAFVG	C9					500
RAFVG	C11					500
RAFVG	C12					500
RAFVG	C13					500
RAFVG	C14					500
RAFVG	C15					1.000
RAFVG	C16					500
RAFVG	C17					1.000
RAFVG	E3					300
RAFVG	E4					500
RAFVG	F1					3.000
PROVINCE OF TRENTO	C6					1.000
PROVINCE OF TRENTO	C7					2.000
PROVINCE OF TRENTO	C8					500
PROVINCE OF TRENTO	C13					2.500
PROVINCE OF TRENTO	C15					1.000
PROVINCE OF TRENTO	C16					1.000

FORM F2

Travel and subsistence costs

		Calculation =>		A	B	A + B
Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Travel costs	Subsistence costs	Total travel and subsistence costs
PROVINCE OF TRENTO	F1					2.000
PROVINCE OF TRENTO	E1					1.000
PROVINCE OF TRENTO	E3					2.100
Arpae	C1					5.070
Arpae	C3					3.160
Arpae	D6					175
Arpae	F1					2.100
ARPAV	C1					540
ARPAV	D6					130
ARPAV	E6					1.000
ARPAV	E1					390
ARPAV	E2					240
ARPAV	F1					1.150
ARPA PIEMONTE	C1					500
ARPA PIEMONTE	C3					2.500
ARPA PIEMONTE	D6					200
ARPA PIEMONTE	F1					1.000
ARPA LOMB	D6					4.000
ARPA LOMB	C1					690
ARPA LOMB	E3					1.500
ARPA LOMB	F1					4.555
ARPA LOMB	E6					1.000
ARPA VDA	C1					980
ARPA VDA	C3					3.060
ARPA VDA	D6					320
ARPA VDA	F1					2.840
ARPA FVG	C1					980
ARPA FVG	C3					3.060
ARPA FVG	D6					540
ARPA FVG	F1					2.730
ARSO	C3					2.000
ARSO	D6					932
ARSO	E1					870
ARSO	F1					5.220
COBO	F1					1.495
COBO	E1					380
COBO	E2					265
Milan	F1					3.240
CDT	C9					1.250
CDT	C9					1.250
CDT	C11					2.000
CDT	F1					1.500
ERVET	C17					4.700
ERVET	E1					1.666
ERVET	E2					1.666
ERVET	E6					333
ERVET	F1					3.400
FLA	C8					2.020
FLA	C9					1.300

FORM F2

Travel and subsistence costs

		Calculation =>		A	B	A + B
Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Travel costs	Subsistence costs	Total travel and subsistence costs
FLA	E1					400
FLA	E2					310
FLA	E5					120
FLA	F1					700
Phase 3						
RER	C6					70
RER	C7					70
RER	C8					400
RER	C9					2.000
RER	C10					1.000
RER	C12					2.000
RER	C13					1.000
RER	C14					500
RER	C16					210
RER	E2					5.000
RER	E3					200
RER	E5					600
RER	F1					2.000
VENETO	C7					500
REGION						
VENETO	C12					1.000
REGION						
VENETO	C13					400
REGION						
VENETO	C16					400
REGION						
VENETO	E3					400
REGION						
VENETO	E4					400
REGION						
VENETO	F1					3.100
REGION						
Lombardy	C6					250
Region						
Lombardy	C9					694
Region						
Lombardy	C13					1.072
Region						
Lombardy	C16					350
Region						
Lombardy	E1					118
Region						
Lombardy	E2					1.740
Region						
Lombardy	F1					1.554
Region						
Lombardy	F3					333
Region						
PIEDMONT	C7					960
REGION						
PIEDMONT	C9					1.200
REGION						
PIEDMONT	C12					900
REGION						
PIEDMONT	C13					1.600
REGION						
PIEDMONT	C14					1.000
REGION						
PIEDMONT	C16					1.500
REGION						
PIEDMONT	E1					1.000
REGION						
PIEDMONT	E2					1.500
REGION						
PIEDMONT	E5					130
REGION						
PIEDMONT	F1					5.000
REGION						
RAFVG	C6					500
RAFVG	C7					500
RAFVG	C8					500
RAFVG	C9					500
RAFVG	C12					500
RAFVG	C13					500
RAFVG	C14					500
RAFVG	C16					500
RAFVG	C17					2.000

FORM F2

Travel and subsistence costs

Beneficiary short name	Action number	Destination (From / To)	Purpose of travel/number of trips and persons travelling, duration of trip (in days)	Calculation =>		Total travel and subsistence costs
				A Travel costs	B Subsistence costs	
RAFVG	E3					400
RAFVG	E4					500
RAFVG	F1					3.000
PROVINCE OF TRENTO	C6					1.000
PROVINCE OF TRENTO	C7					2.000
PROVINCE OF TRENTO	C16					1.000
PROVINCE OF TRENTO	F1					2.700
PROVINCE OF TRENTO	E1					1.000
Arpae	D6					220
Arpae	F1					3.420
ARPAV	D6					260
ARPAV	E1					765
ARPAV	E2					2.480
ARPAV	F1					1.460
ARPA PIEMONTE	D6					100
ARPA PIEMONTE	F1					1.500
ARPA LOMB	E3					1.500
ARPA LOMB	F1					3.420
ARPA VDA	D6					160
ARPA VDA	F1					3.550
ARPA FVG	D6					270
ARPA FVG	F1					3.413
ARSO	D6					933
ARSO	E1					1.740
ARSO	F1					8.700
COBO	F1					2.480
COBO	E1					265
COBO	E2					2.243
Milan	E2					3.600
Milan	E1					250
Milan	F1					5.860
CDT	C9					1.000
CDT	C9					1.000
CDT	F1					1.000
ERVET	C17					300
ERVET	E1					1.666
ERVET	E2					1.666
ERVET	E6					333
ERVET	F1					3.300
FLA	C8					2.020
FLA	E1					400
FLA	E2					310
FLA	F1					700
TOTAL =>						441.082

FORM F3

Proposal acronym: LIFE-IP PREPAIR

External assistance costs

Beneficiary short name	Action number	Procedure	Description	Costs
PHASE 1				
RER	C4	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR ANALYSIS FOR THE IDENTIFICATION OF BATs	20.000
RER	C5	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF A COMMON MODEL OF EVALUATION	30.000
RER	C9	PUBLIC TENDER	TRAINING ON CYCLING MOBILITY	20.000
RER	C11	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE SURVEY ON EXTRA URBAN AREAS	16.000
RER	C13	PUBLIC TENDER	TRAINERS FOR COURSES ON ELECTRIC MOBILITY	7.000
RER	C15	PUBLIC TENDER	TRAINING ACTIVITIES FOR THE IMPLEMENTATION OF THE ACTION C.15	14.000
RER	E1	PUBLIC TENDER	TRANSLATION SERVICE FOR THE LAUNCH CONFERENCE	5.000
RER	E5	PUBLIC TENDER	EXPERIMENTAL TESTING IN 3 CLASSES AND SUPPORT TO THE EDUCATIONAL PATHS DEVELOPMENT	1000
VENETO REGION	C4	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR ANALYSIS FOR THE IDENTIFICATION OF BATs	10.000
VENETO REGION	C5	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF A COMMON MODEL OF EVALUATION	12.500
VENETO REGION	C6	PUBLIC TENDER	ORGANISATION OF TRAINING ACTIVITIES ADDRESSED TO TECHNICIANS	5.000
VENETO REGION	C11	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE SURVEY ON URBAN AREAS	10.000
VENETO REGION	C13	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF COURSES REGARDING ELECTRIC MOBILITY	10.000
VENETO REGION	C14	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF COURSES REGARDING ECO-DRIVING	5.000
VENETO REGION	C15	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF COURSES FOR COMPANIES CONCERNING THE OBJECT OF THE ACTION	9.000

FORM F3**Proposal acronym: LIFE-IP PREPAIR****External assistance costs**

Beneficiary short name	Action number	Procedure	Description	Costs
VENETO REGION	C16	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF TRAINING CONCERNING THE OBJECT OF THE ACTION	20.000
VENETO REGION	C17	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE IMPLEMENTATION OF WORKSHOPS ON ENERGY SAVING (PART 17.1) and COURSES REGARDING GPP (part 17.2)	18.000
VENETO REGION	E4	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR COMMUNICATION ACTIVITIES	5.000
Lombardy Region	C4	PUBLIC TENDER	External assistance for identifying and testing technologies and best practices for the use of slurries in order to achieve high N efficiency reducing environmental impacts. A full scale approach is necessary by research bodies having experience in this field and both scientific and technical	80.000
Lombardy Region	C5	PUBLIC TENDER	Objective of the public tendere is to identify a subject for the development of studies for models for the prediction of the odorous impacts from emissions of farms	50.000
Lombardy Region	E3	PUBLIC TENDER	External assistance for the selection of an agency for the implementation of all the communication activities defined in E3 action	115.000
PIEDMONT REGION	C10	public tender	Services for engineering studies and other services for prototype feasibility study	272.337
PIEDMONT REGION	C11	public tender	Services for engineering studies and other services for surveys and management model development	10.000
PIEDMONT REGION	C13	public tender	Services related course on e-mobility	20.000
PIEDMONT REGION	C14	public tender	Services related training on eco-driving and other services	40.000
PIEDMONT REGION	E4	public tender	Design of dissemination products on e-mobility and other services	12.000
PIEDMONT REGION	E5	public tender	Educational paths	6.600

FORM F3

Proposal acronym: LIFE-IP PREPAIR

External assistance costs

Beneficiary short name	Action number	Procedure	Description	Costs
RAFVG	C6	PUBLIC TENDER	ORGANISATION OF TRAINING ACTIVITIES ADDRESSED TO TECHNICIANS	5.000
RAFVG	C7	PUBLIC TENDER	ORGANISATION OF TRAINING ACTIVITIES ADDRESSED TO CHIMNEY SWEEPS	5.000
RAFVG	C9	PUBLIC TENDER	ORGANISATION OF TRAINING ACTIVITIES ADDRESSED TO PROMOTING CICLING MOBILITY	5.000
RAFVG	C12	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR ICT TOOLS SYSTEMS	10.000
RAFVG	C13	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF COURSES REGARDING ELECTRIC MOBILITY	8.000
RAFVG	C15	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF COURSES FOR COMPANIES CONCERNING THE OBJECT OF THE ACTION	10.000
RAFVG	C16	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE REALIZATION OF TRAINING CONCERNING THE OBJECT OF THE ACTION	8.000
RAFVG	C17	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE IMPLEMENTATION OF WORKSHOPS ON ENERGY SAVING (PART 17.1) and COURSES REGARDING GPP (part 17.2)	10.000
RAFVG	E1	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR INFORMATION AND AWARENESS RAISING ACTIVITIES	1.000
RAFVG	E4	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR POPULATION AWARENESS RAISING ON ELECTRIC VEHICLES ACTIVITIES	4.000
RAFVG	E5	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR PUBLICATION FOR CITIZENS ON SOUSTAINABLE BEHAVIOURS ACTIVITIES	2.000
PROVINCE OF TRENTO	C6	PUBLIC TENDER	DEFINITION OF A TRAINING FORMAT AND ORGANISATION OF TRAINING ACTIVITIES ADDRESSED TO TECHNICIANS	21.770

FORM F3**Proposal acronym: LIFE-IP PREPAIR****External assistance costs**

Beneficiary short name	Action number	Procedure	Description	Costs
PROVINCE OF TRENTO	C7	PUBLIC TENDER	DEFINITION OF A TRAINING FORMAT AND ORGANISATION OF TRAINING ACTIVITIES ADDRESSED TO CHIMNEY SWEEPS	11.280
PROVINCE OF TRENTO	C15	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE ORGANIZATION OF PUBLIC EVENTS AND WORKSHOPS	11.000
PROVINCE OF TRENTO	C16	PUBLIC TENDER	DEFINITION OF A TRAINING FORMAT AND ORGANIZATION OF TRAINING ACTIVITIES ADDRESSED TO TECHNICIANS OF ENERGY EFFICIENCY	15.160
PROVINCE OF TRENTO	E2	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR TRANSLATION DURING THE CONFERENCES	3.500
PROVINCE OF TRENTO	E4	PUBLIC TENDER	EXTERNAL ASSISTANCE FOR THE ORGANIZATION OF THE ELECTRIC MOBILITY DAY	4.000
PROVINCE OF TRENTO	C17	PUBLIC TENDER	EXPERT FOR THE ORGANIZATION OF THE INFORMATION POINT AND WORKSHOP	35.000
Arpae	C1	Public Tender	Software development and/or scientific and technical support for models implementation	35.000
Arpae	C3	Direct treaty	RIAT+ SW implementation on the Po basin	42.500
Arpae	C5	Public Tender	Software development and/or scientific and technical support for models implementation	5.000
ARPAV	C1	Public tender	Consultancy on Veneto air quality modelling system optimization and data assimilation	18.750
ARPA LOMB	C1	Public tender	implementation model system for air quality assessment	20.000
ARPA LOMB	C2	Public tender	development informative tool for improved emission dataset	40.000
ARPA VALLE D'AOSTA	F1	Indagine di mercato	Project managing support	10.000
ARPA FVG	F1	Market survey	Project managing support	5.000
ARPA FVG	A3	Market survey	Project managing support	35.000
ARPA FVG	C3	Market survey	Project managing support	35.000
ARSO	E1	public tender	Design and printing of dissemination material	3.500

FORM F3**Proposal acronym: LIFE-IP PREPAIR****External assistance costs**

Beneficiary short name	Action number	Procedure	Description	Costs
COBO	C9	Public Tender	External assistance for managing and periodical servicing of bike station. This service will cover 24/24 hours and will assure the correct running of the bike station to offer bikers a safer and controlled bikes parking	15.000
COBO	C9	Public Tender	Modal split Analysis and monitoring flow paths	30.000
COBO	C9	Public Tender	Actions in order to promote regular and safe cycling in the city– Stakeholder (car drivers, pedestrians)	125.000
COBO	C11	Public Tender	Rationalization of short-range freight logistics in urban and extra-urban areas	20.000
COBO	E4	Public Tender	Population awareness raising on electric vehicles (regional Electric Mobility Day)	8.000
Milan	C9	D.Lgs. 163/2006 for public works, service and provision	Organisation of cycle labs in the schools	22.500
Milan	C9	Direct treaty	Psychologists for workshops on safety and feeling of security when cycling	12.500
Milan	C9	Direct treaty	Peditricians for workshops in the schools	9.000
CDT	C9	Public Tender	Supporto per recupero dati e restituzione su piattaforma open data	50.000
CDT	C9	Public Tender	Supporto tecnico-scientifico per progettazione bici stazione	15.000
CDT	C9	Public Tender	Supporto per coinvolgimento delle Associazioni per la progettazione partecipata	15.000
CDT	C11	Public Tender	External expert to implementation of model system and to involve the national logistics stakeholder	42.500
CDT	E4	Public Tender	EXTERNAL ASSISTANCE FOR THE ORGANIZATION OF THE ELECTRIC MOBILITY DAY	18.000
ERVET	A2	Public Tender	Development of software	25.000
ERVET	E1	Public Tender	Development logo and website	25.000
ERVET	E2	Public Tender	Journalistic support, development of e-learning platform and survey on the people's perception of the quality of air	40.000

FORM F3

Proposal acronym: LIFE-IP PREPAIR

External assistance costs

Beneficiary short name	Action number	Procedure	Description	Costs
FLA	C8	direct treaty-best value for money	Technical support to the implementation of Task 1: Study of supply flows of biomass	30.000
FLA	C8	direct treaty-best value for money	Best practice selection and dissemination	3.000
FLA	C9	direct treaty-best value for money	Support to the organization and implementation of Cycling mobility: training course addressed to the officials and operators of the local administrations	10.000
FLA	C9	direct treaty-best value for money	cost of renting the rooms where the courses will be organized	2.000
FLA	C9	direct treaty-best value for money	Coach service to take the trainee groups to the towns chosen for the visit (field trip)	6.000
FLA	C9	direct treaty-best value for money	Cost of renting the bike for the field trip	2.400
FLA	C13	direct treaty-best value for money	Support on technical study on electric mobility	8.000
FLA	E5	direct treaty-best value for money	Technical support on definition of educational paths, testing and implementation	16.000
PHASE 2				
RER	C4			40.000
RER	C5			45.000
RER	C6			14.000
RER	C7			25.000
RER	C8			3.000
RER	C9			30.000
RER	C11			64.000
RER	C12			80.000
RER	C13			14.000
RER	C14			17.750
RER	C15			46.000
RER	E2			12.000
RER	E3			7.200
RER	E5			3.000
RER	C16			18.800
VENETO REGION	C4			12.600
VENETO REGION	C5			15.100
VENETO REGION	C6			19.000

FORM F3

Proposal acronym: LIFE-IP PREPAIR

External assistance costs

Beneficiary short name	Action number	Procedure	Description	Costs
VENETO REGION	C7			14.000
VENETO REGION	C8			3.000
VENETO REGION	C11			10.000
VENETO REGION	C12			10.000
VENETO REGION	C13			10.000
VENETO REGION	C14			5.000
VENETO REGION	C15			19.000
VENETO REGION	C16			18.000
VENETO REGION	C17			27.000
VENETO REGION	E4			5.000
PIEDMONT REGION	C9			25.000
PIEDMONT REGION	C10			102.000
PIEDMONT REGION	C11			15.000
PIEDMONT REGION	C12			15.000
PIEDMONT REGION	C13			10.000
PIEDMONT REGION	C14			15.000
PIEDMONT REGION	C15			15.000
PIEDMONT REGION	C17			10.000
RAFVG	C6			12.000
RAFVG	C7			12.000
RAFVG	C9			12.000
RAFVG	C12			16.000
RAFVG	C13			10.000
RAFVG	C15			35.000
RAFVG	C16			14.000
RAFVG	C17			20.000
RAFVG	E1			2.000
RAFVG	E4			6.000
RAFVG	E5			3.000
PROVINCE OF TRENTO	C6			28.000
PROVINCE OF TRENTO	C7			53.952

FORM F3

Proposal acronym: LIFE-IP PREPAIR

External assistance costs

Beneficiary short name	Action number	Procedure	Description	Costs
PROVINCE OF TRENTO	C15			20.000
PROVINCE OF TRENTO	C16			18.800
PROVINCE OF TRENTO	E5			8.000
PROVINCE OF TRENTO	C17			10.000
PROVINCE OF TRENTO	E2			4.000
PROVINCE OF TRENTO	E3			10.000
PROVINCE OF TRENTO	E4			8.000
Arpae	C1			105.000
Arpae	C3			127.500
Arpae	C5			7.000
Arpae	D5			26.154
ARPAV	C1			31.250
ARPAV	D3			90.000
ARPA PIEMONTE	C3			50.000
ARPA PIEMONTE	D4			100.000
ARPA PIEMONTE	D5			50.000
ARPA LOMB	C1			20.000
ARPA LOMB	C2			40.000
ARPA LOMB	D2			15.000
ARPA LOMB	D5			15.000
ARPA VALLE D'AOSTA	F1			18.000
ARPA FVG	F1			5.000
ARSO	F1			7.500
COBO	C9			40.000
COBO	C11			28.800
COBO	C17			23.500
COBO	E4			9.000
CDT	C9			19.500
CDT	E4			7.000
ERVET	C17			20.000
ERVET	E1			75.000
ERVET	E2			10.000
FLA	C8			30.000
FLA	C9			20.400
FLA	C13			4.000
FLA	E2			12.000
FLA	E5			3.000
PHASE 3				
RER	C6			28.000
RER	C7			25.000
RER	C13			14.000

FORM F3

Proposal acronym: LIFE-IP PREPAIR

External assistance costs

Beneficiary short name	Action number	Procedure	Description	Costs
RER	C14			17.750
RER	C16			18.800
RER	E2			5.000
RER	E5			3.000
VENETO REGION	C6			15.000
VENETO REGION	C7			23.000
VENETO REGION	C12			10.000
VENETO REGION	C13			10.000
VENETO REGION	C16			18.000
VENETO REGION	C17			5.000
VENETO REGION	E1			5.000
VENETO REGION	E4			5.000
PIEDMONT REGION	C12			10.000
PIEDMONT REGION	C13			10.000
PIEDMONT REGION	C14			7.000
PIEDMONT REGION	E1			5.000
PIEDMONT REGION	E2			5.000
RAFVG	C6			7.000
RAFVG	C7			7.000
RAFVG	C9			7.000
RAFVG	C12			10.000
RAFVG	C13			10.000
RAFVG	C16			8.000
RAFVG	C17			10.000
RAFVG	E1			2.000
RAFVG	E4			5.000
RAFVG	E5			3.000
PROVINCE OF TRENTO	C6			14.000
PROVINCE OF TRENTO	C7			33.600
PROVINCE OF TRENTO	C15			1.000
PROVINCE OF TRENTO	C16			9.400
PROVINCE OF TRENTO	E2			8.500
PROVINCE OF TRENTO	E5			4.000

FORM F3

Proposal acronym: LIFE-IP PREPAIR

External assistance costs

Beneficiary short name	Action number	Procedure	Description	Costs
Arpae	D5			58.846
Arpae	D6			19.840
ARPAV	D3			90.000
ARPA PIEMONTE	D4			150.000
ARPA LOMB	D2			15.000
ARPA LOMB	D5			15.000
ARPA VALLE D'AOSTA	F1			20.000
ARPA FVG	F1			4.259
ARSO	E1			1.500
COBO	C9			15.000
COBO	E4			8.000
Milan	C9			44.000
ERVET	E1			50.000
ERVET	E2			30.000
FLA	C 13			4.000
FLA	E2			12.000
FLA	E5			1.000
TOTAL =>				4.817.098

FORM F4 a

Proposal acronym: LIFE-IP PREPAIR

Durable goods: Infrastructure costs

Beneficiary short name	Action number	Procedure	Description	Actual cost	Depreciation (eligible cost)
PHASE 1					
PHASE 2					
PHASE 3					
TOTAL =>				0	0

FORM F4 b

Proposal acronym: LIFE-IP PREPAIR

Durable goods: Equipment costs

Beneficiary short name	Action number	Procedure	Description	Actual cost	Depreciation (eligible cost)
PHASE 1					
RER	C17	Public tender	HW and equipments for the Regiona Information Office	5000	2500
Arpae	C1	Public tender	HW and SW for computing centre c/o Arpae	50.000	10.000
Arpae	D6	Public tender	Purchase of authomatic gas analyzer and PM samplers	70.000	8.750
ARPAV	C1	Public tender	Five laptop computers and one software	6.000	3.000
ARPAV	C3	Public tender	One software	3.000	1.500
ARPAV	D6	Public tender	Measurement equipment	30.000	15.000
ARPA PIEMONTE	D6	Public tender	Measurement equipment	40.000	2.000
COBO	C9	Public Tender	Purchase of bicycle racks	100.000	50.000
CDT	C9	Public Tender	Telecamere, computer, tablet, telefoni	10.000	5.000
CDT	C11	Public Tender	sensori, OBU	5.000	2.500
PHASE 2					
RER	C11			12.000	6.000
VENETO REGION PROVINCE OF TRENTO	C13			15.000	7.500
Arpae	C7			15.000	7.500
Arpae	C1				15.000
Arpae	D6				17.500
ARPA PIEMONTE	D6				9.000
PHASE 3					
Arpae	D6				8.750
ARPA PIEMONTE	D6				9.000
TOTAL =>				361.000	180.500

FORM F4 c

Proposal acronym: LIFE-IP PREPAIR

Durable goods: Prototype costs

Beneficiary short name	Action number	Procedure	Description	Actual Costs
PHASE 1				
PHASE 2				
PHASE 3				
TOTAL (sum above) =>				0

FORM F5

Proposal acronym: LIFE-IP PREPAIR

Land purchase or long-term lease of land / use rights

Calculation =>			A	B	C	(A x B) + C
Beneficiary short name	Action number	Description of land purchase / long-term lease / one-off compensation	Estimated cost per hectare (rounded to the nearest euro)	Area (hectares)	Associated charges (euro)	Expected cost (euro)
PHASE 1						
						0
						0
						0
						0
						0
						0
						0
PHASE 2						
PHASE 3						
TOTAL =>						0

FORM F6

Proposal acronym: LIFE-IP PREPAIR

Consumables

Beneficiary short name	Action number	Procedure	Description	Costs
PHASE 1				
RER	C9	PUBLIC TENDER	MATERIALS FOR TRAINING COURSES ON BIKE MOBILITY+ CATERING FOR TECHNICAL WORKSHOPS	2.000
RER	C13	PUBLIC TENDER	MATERIALS FOR TRAINING COURSES ON ELECTRIC MOBILITY+CATERING FOR THEMATIC WORKSHOPS	5.000
RER	C17	PUBLIC TENDERS	MATERIALS FOR THE REGIONAL INFORMATION OFFICE	2.500
RER	E1	PUBLIC TENDER	CATERING FOR THE LAUNCH CONFERENCE	5.000
Lombardy Region	E1	PUBLIC TENDER	CATERING/COFFEES AND RELATED COSTS FOR PROJECT CONFERENCE	3.000
RAFGV	C6	PUBLIC TENDER	DIDACTIC MATERIAL DURING TRAINING COURSES	500
RAFGV	C7	PUBLIC TENDER	DISSEMINATION MATERIALS AND OTHERS	500
RAFGV	C9	PUBLIC TENDER	MATERIALS FOR TRAINING COURSES ON BIKE MOBILITY+ CATERING FOR TECHNICAL WORKSHOPS	500
RAFGV	C15	PUBLIC TENDER	DISSEMINATION MATERIALS AND OTHERS	1.000
RAFGV	C16	PUBLIC TENDER	DIDACTIC MATERIAL DURING TRAINING COURSES	500
PROVINCE OF TRENTO	E2	PUBLIC TENDER	FIRST THEMATIC CONFERENCE - CATERING	4.000
PROVINCE OF TRENTO	C16	PUBLIC TENDER	DIDACTIC MATERIAL DURING TRAINING COURSES	500
PROVINCE OF TRENTO	C17	PUBLIC TENDER	WORKSHOP - CATERING	3.000
PROVINCE OF TRENTO	C6	PUBLIC TENDER	DIDACTIC MATERIAL DURING TRAINING COURSES	1.000
PROVINCE OF TRENTO	E4	PUBLIC TENDER	CATERING AND GADGETS FOR THE FIRST ELECTRIC MOBILITY DAY	9.000
ARPA LOMB	D6	Public Tender	Filters	12.000
ARPA LOMB	D6	Public Tender	Ovens for OC/EC analyzer	3.000
ARPA LOMB	D6	Public Tender	Standards XRF	5.000
ARPA LOMB	D6	Public Tender	Standards IC	3.000
ARPA LOMB	D6	Public Tender	laboratory glassware and accessories (pipettes, syringes..)	20.000
ARPA LOMB	D6	Public Tender	IC column apparatus (detectors..)	15.000
COBO	C9	Direct Treaty	Bicycle toolkits and bike accessories	6.000
COBO	C17	Direct Treaty	Educational materials for focus groups and workshops. Sample kits for energy saving for workshops (i.e. solar panels, electric circuits)	2.000
Milan	C9	D.Lgs. 163/2006 for public works, service and provision	Materials for dissemination in the schools	7.500
Milan	C9	D.Lgs. 163/2006 for public works, service and provision	Catering for dissemination events (100 persons)	5.000
Milan	C9	D.Lgs. 163/2006 for public works, service and provision	Gadgets for cycle challenge	20.000
Milan	E4	D.Lgs. 163/2006 for public works, service and provision	Catering for Electric Conference (100 persons)	1.400
Milan	C9	D.Lgs. 163/2006 for public works, service and provision	Catering for workshops in the school (200 persons)	15.000
Milan	C9	D.Lgs. 163/2006 for public works, service and provision	Leaflets and posters promoting cycling (8000)	12.000
Milan	C9	D.Lgs. 163/2006 for public works, service and provision	Leaflets (Safe Routes to school) - 5000	8.000
Milan	C9	D.Lgs. 163/2006 for public works, service and provision	Educational Materials (leaflets and DVD) - 5000	10.000
CDT	C9	PUBLIC TENDER	eventi/conferenze (catering)	7.500
CDT	C11	PUBLIC TENDER	eventi/conferenze (catering)	4.000
CDT	E4	PUBLIC TENDER	eventi/conferenze (catering)	5.000
CDT	E4	PUBLIC TENDER	gadget	4.000
ERVET	C17	Public Tender	Material in support of GPP training	1.000
ERVET	E1	Public Tender	Printing of communication material of the project	10.000
ERVET	E2	Public Tender	Printing of the survey on the people's perception of the quality of air	2.500
FLA	C9	direct treaty-best value for money	Publishing materials to promote the participation to the Cycling mobility: training course addressed to the officials and operators of the local administrations	2.000
PHASE 2				
RER	C6			1.000
RER	C7			500
RER	C9			3.000
RER	C13			4.400
RER	C14			1.500
RER	C15			750
RER	C17			2.500
RER	E2			3.000
RER	E3			1.000
RER	E5			3.000
RAFGV	C6			1.000
RAFGV	C7			1.000
RAFGV	C9			1.000
RAFGV	C15			1.000

FORM F6

Proposal acronym: LIFE-IP PREPAIR

Consumables

Beneficiary short name	Action number	Procedure	Description	Costs
RAFVG	C16			1.000
PROVINCE OF TRENTO	C7			1.500
PROVINCE OF TRENTO	C6			2.000
PROVINCE OF TRENTO	C16			1.000
PROVINCE OF TRENTO	C17			3.000
PROVINCE OF TRENTO	E3			1.600
PROVINCE OF TRENTO	E4			18.000
ARPA LOMB	D6			72.000
ARSO	D6			1.515
COBO	C9			6.000
COBO	C17			8.000
COBO	E4			2.500
COBO	F1			3.000
PIEDMONT REGION	C10			6.000
CDT	C9			5.000
CDT	C11			3.500
CDT	E4			5.000
ERVET	C17			4.000
ERVET	E1			5.000
FLA	C6			250
FLA	C7			250
FLA	C8			2.000
FLA	C9			1.000
FLA	E5			3.000
Lombardy Region	E2			3.000
PHASE 3				
RER	C6			2.000
RER	C7			500
RER	C11			3.000
RER	C13			4.400
RER	C14			1.500
RER	C15			750
RER	E2			5.000
RER	E5			3.000
Veneto Region	E1			2.000
RAFVG	C6			500
RAFVG	C7			500
RAFVG	C9			500
RAFVG	C16			500
RAFVG	E1			2.000
PROVINCE OF TRENTO	C6			1.000
PROVINCE OF TRENTO	C7			3.500
PROVINCE OF TRENTO	C16			500
PROVINCE OF TRENTO	E2			4.000
ARPAV	E2			3.000
ARPA LOMB	D6			60.000
ARSO	D6			1.515
COBO	C9			6.000
COBO	E4			2.500
COBO	F1			3.000
PIEDMONT REGION	E1			5.000
PIEDMONT REGION	E2			5.000
CDT	C9			5.000
ERVET	D1			10.000
ERVET	E1			5.000
ERVET	E2			2.500
FLA	C6			250
FLA	C7			250
FLA	E5			3.000
TOTAL =>				549.830

FORM F7

Proposal acronym: LIFE-IP PREPAIR

Other costs

Beneficiary short name	Action number	Procedure	Description	Costs
PHASE 1				
RER	F2	PUBLIC TENDER	INDEPENDENT AUDITING	33.333
RER	F3	PUBLIC TENDER	TRAVEL COSTS FOR EXTERNAL SPEAKERS FOR THE IMPLEMENTATION OF ACTION F.3	1.500
VENETO REGION	C4	PUBLIC TENDER	Travel and accomodation for external speakers (first year meeting)	800
VENETO REGION	C5	PUBLIC TENDER	Travel and accomodation for external speakers (first year meeting)	800
VENETO REGION	C17	PUBLIC TENDER	Travel and accomodation for external speakers at workshop	1.000
PIEDMONT REGION	C10	PUBLIC TENDER	Travel and subsistence costs for external speakers	6.000
PIEDMONT REGION	C13	PUBLIC TENDER	Travel and subsistence costs for speaker	2.000
RAFGV	C6	PUBLIC TENDER	DEFINITION OF THE TRAINING FORMAT: EXPERT EXPENSES' REIMBURSEMENT	250
RAFGV	C7	PUBLIC TENDER	DEFINITION OF THE TRAINING FORMAT: EXPERT EXPENSES' REIMBURSEMENT	250
RAFGV	C9	PUBLIC TENDER	DEFINITION OF THE TRAINING FORMAT: EXPERT EXPENSES' REIMBURSEMENT	250
RAFGV	C15	PUBLIC TENDER	DEFINITION OF THE TRAINING FORMAT: EXPERT EXPENSES' REIMBURSEMENT	1.000
RAFGV	C16	PUBLIC TENDER	STAKEHOLDERS' EXPENSES REIMBURSEMENT	2.500
RAFGV	C17	PUBLIC TENDER	STAKEHOLDERS' EXPENSES REIMBURSEMENT	1.250
PROVINCE OF TRENTO	E2	PUBLIC TENDER	THEMATIC CONFERENCE AND SITE VISITS	2.500
PROVINCE OF TRENTO	C4	PUBLIC TENDER	STAKEHOLDERS AND TECHNICAL EXPERTS' EXPENSES, AS TRAVEL REIMBURSEMENT. ETC	2.500
PROVINCE OF TRENTO	C5	PUBLIC TENDER	STAKEHOLDERS AND TECHNICAL EXPERTS' EXPENSES, AS TRAVEL REIMBURSEMENT. ETC	2.500
PROVINCE OF TRENTO	C6	PUBLIC TENDER	DEFINITION OF THE TRAINING FORMAT: EXPERT EXPENSES' REIMBURSEMENT	4.000
PROVINCE OF TRENTO	C7	PUBLIC TENDER	DEFINITION OF THE TRAINING FORMAT: EXPERT EXPENSES' REIMBURSEMENT	1.000
PROVINCE OF TRENTO	C8	PUBLIC TENDER	STAKEHOLDERS' EXPENSES REIMBURSEMENT	2.000
PROVINCE OF TRENTO	C16	PUBLIC TENDER	STAKEHOLDERS' EXPENSES REIMBURSEMENT	6.500
PROVINCE OF TRENTO	C17	PUBLIC TENDER	STAKEHOLDERS' EXPENSES REIMBURSEMENT AND CATERING DURING WORKSHOPS	3.000
ARPAV	E5	PUBLIC TENDER	Information leaflets	3.000
ARPA LOMB	D6	PUBLIC TENDER	samples transports	2.000
PHASE 2				
RER	F2			33.333
RER	F3			1.500
RER	C16			3.000
VENETO REGION	C4			1.600
VENETO REGION	C5			1.600
VENETO REGION	C6			500
VENETO REGION	C7			1.000
VENETO REGION	C15			2.000
VENETO REGION	C16			2.000
VENETO REGION	C17			2.000
PIEDMONT REGION	C10			12.000
PIEDMONT REGION	C13			2.000
RAFGV	C6			500
RAFGV	C7			500
RAFGV	C9			500
RAFGV	C15			1.000
RAFGV	C16			5.000
RAFGV	C17			2.500
PROVINCE OF TRENTO	C7			9.000
PROVINCE OF TRENTO	C6			2.000
PROVINCE OF TRENTO	C16			5.000
PROVINCE OF TRENTO	C17			3.000
PROVINCE OF TRENTO	E5			2.700
ARPA LOMB	D6			8.000
COBO	C9			3.000
COBO	C17			5.000
COBO	E6			1.000
COBO	F1			2.500
ERVET	E1			80.000
PHASE 3				
RER	F2			33.333
RER	F3			1.500
RER	C16			3.000
VENETO REGION	C6			500
VENETO REGION	C7			1.000
VENETO REGION	C16			2.000
VENETO REGION	C17			2.000
VENETO REGION	E1			2.000
PIEDMONT REGION	C13			2.000
PIEDMONT REGION	E2			15.000
RAFGV	C6			250
RAFGV	C7			250
RAFGV	C9			250
RAFGV	C16			2.500
RAFGV	C17			1.250
RAFGV	E1			2.000
PROVINCE OF TRENTO	C6			1.000
PROVINCE OF TRENTO	C7			18.000
PROVINCE OF TRENTO	C16			2.500
PROVINCE OF TRENTO	E2			2.500
PROVINCE OF TRENTO	E5			1.300

ARPAV	D3		15.000
ARPA LOMB	D6		6.000
COBO	E6		1.000
COBO	F1		2.500
TOTAL =>			392.299

LIFE Integrated Projects 2015 – FP
Financial Plan

Sources of financing	Actions/measures to be financed	Amount of funding EUR	Status/date of Funding granted/ to be granted/ not yet requested	Authority/ entity managing the fund
LIFE PROJECT:				
EU contribution	NA	9.974.624	NA	NA
Contribution by beneficiaries	NA	6.831.315	NA	NA
Contribution by cofinancers	NA	0	NA	NA
TOTAL LIFE IP		16.805.939		
EU funds:				
ERDF Emilia Romagna	4.2.1 Efficienza energetica e progetti dimostrativi nelle PMI (068), promozione dell'efficienza energetica nelle grandi imprese (070)	40.479.203	Granted in 12/02/2015	Emilia Romagna Region – Direzione Economia della conoscenza, del lavoro e dell'impresa
	4.1.1 Rinnovo di infrastrutture pubbliche sul piano dell'efficienza energetica (013) Rinnovo della dotazione di alloggi sul piano dell'efficienza energetica (014)	24.171.866		
	4.1.2 Energie rinnovabili: biomasse (011)	3.000.000		
	4.6.2 Infrastrutturee promozione di trasporti urbani puliti (043)	13.000.000		
	4.6.3 Sistemi di trasporto intelligente (044)	6.000.000		
	4.6.4 Piste ciclabili e percorsi pedonali (090)	8.275.812		
ERDF Veneto	4.1 Reduction of energy consumption in public facilities or residential and non residential buildings of public use and integration of renewable sources (<i>sub-measure 4.1.1</i>)	45.000.000	Granted in 17/08/2015 <i>Decision (CE) C(2015) 5903</i>	Veneto Region, International Policies and Cooperation Department
	4.2 Reduction of energy consumption and emissions in companies and integration of renewable sources (<i>sub-measure 4.2.1</i>)	24.000.000		
	4.6 Smart mobility in urban areas (<i>submeasure 4.6.3</i>)	20.000.000		
	4.6 Increase of sustainable mobility in urban areas renewing the transportation fleet (<i>submeasure 4.6.2</i>)	13.000.000		
ERDF Lombardy	cycling mobility infrastrucures oriented to the whole connection of the regional cycling mobility, identified by the Regional Plan, linked to the local cycling mobility and to the local public transport	15.000.000	To be granted. Expression of Interest started on 05/06/2015 (D.G.R. n° X/3669 + Decreto n°6549 31/07/2015)	Lombardy Region - General Direction- University, Research and Open Innovation

ERDF Piedmont	4.2 Reduction of energy consumption and GHG emissions in companies and productive areas	67.487.700	Granted in 12/02/2015	Piemonte Region – Direction for Competitiveness
	4.1 Reduction of energy consumption in public facilities or residential and non residential buildings of public use and integration of renewable sources (sub-measure 4.1.1 and 4.1.2)	134.975.400		
ERDF Friuli Venezia Giulia	4.1.1. Promozione dell'eco-efficienza e riduzione di consumi di energia primaria negli edifici e strutture pubbliche: interventi di ristrutturazione di singoli edifici o complessi di edifici, installazione di sistemi intelligenti di telecontrollo, regolazione, gestione, monitoraggio e ottimizzazione dei consumi energetici (smartbuildings) e delle emissioni inquinanti anche attraverso l'utilizzo di mix tecnologici	56.945.513	Granted in 14/07/2015 <i>Decision CE(2015) 4814</i>	Regione autonoma Friuli Venezia Giulia Direzione centrale attività produttive, commercio, cooperazione, risorse agricole e forestali
	4.6.2/4.6.4. Interventi di mobilità sostenibile urbana anche incentivando l'utilizzo di sistemi di trasporto a basso impatto ambientale, il completamento, l'attrezzaggio del sistema e il rinnovamento delle flotte / Sviluppo delle infrastrutture necessarie all'utilizzo del mezzo a basso impatto ambientale anche attraverso iniziative di charginghub	11.588.911		
ERDF Provincia autonoma di Trento	Asse 3 Azione 3.1. 1 Incentivi finalizzati alla riduzione dei consumi energetici delle imprese	10.000.000	Granted in 12/02/2015	Servizio Europa, Provincia Autonoma di Trento
	Asse 3 Azione 3.2.1 Promozione della ecoefficienza e riduzione dei consumi di energia primaria negli edifici e strutture pubbliche	8.000.000		
ERDF OP Metropolitan cities - Municipality of Bologna. (OT 4 "Sustainable Energy and quality of life")	Urban mobility and sustainable services. Action 2.1.2 - Energy saving in public buildings. Action 2.2.3 - Slow Mobility	11.500.000	Granted in July 2015	Italian National Agency for territorial cohesion
ERDF OP Metropolitan cities - Municipality of Turin	Realizzazione di opere per la mobilità ciclabile e pedonale, per aumentare le dotazioni ITS sulla città e per realizzare progetto sulla razionalizzazione della distribuzione delle merci in ZTL.	8.000.000	Granted in July 2015	Italian National Agency for territorial cohesion

ERDF OP Metropolitan cities - Municipality of Milan	The actions supported by the Programme Pon Metro (ERDF Fund) and carried out by Milan City Council within the priority 4 are focused on the following issues: - strengthening cycle paths in the city and in the Metropolitan Area (Cinisello Balsamo); - adding new stations for bike share (BikeMi); - buying new bikes and e-bikes	6.600.000	Granted in July 2015	Italian National Agency for territorial cohesion
OP ESI 2014-2020 Slovenia	04. Supporting the shift towards a low-carbon economy in all sectors (less developed region)	10.014.152	granted by EC: 15/12/2014	Republic of Slovenia, Government Office for Development and European Cohesion Policy
	04. Supporting the shift towards a low-carbon economy in all sectors (more developed region)	11.010.053	granted by EC: 15/12/2014	Republic of Slovenia, Government Office for Development and European Cohesion Policy
	06. Preserving and protecting the environment and promoting resource efficiency (less developed regions)	82.125.360	granted by EC: 15/12/2014	Republic of Slovenia, Government Office for Development and European Cohesion Policy
	06. Preserving and protecting the environment and promoting resource efficiency (more developed regions)	48.999.997	granted by EC: 15/12/2014	Republic of Slovenia, Government Office for Development and European Cohesion Policy
TOTAL (ERDF)		679.173.967,00		
EARDF Emilia Romagna Region	2A "Improving the economic performance of all farms and facilitating farm restructuring and modernisation"	1.632.000	Granted in 26/05/2015 <i>Decision CE n. 3530</i>)	Emilia Romagna Region - Directorate General for Agriculture, Fishery and Wildlife Activities
	3A "Improving competitiveness of primary producers by better integrating them into the agri-food chain"	5.730.000		
	5D "Reduction of GHG and ammonia emissions from agriculture"	19.446.059		
	4C "Preventing soil erosion and improving soil management"	7.277.116		
	4B "Improving water management, including fertiliser and pesticide management"	19.512.505		

EARDF Lombardy Region	Operation: 8.6.02 "Support to investments in forest technology and transformation, movement and commercialization of forest products" <i>Investments in machinery systems addressed to the first manufacturing in collection and storage areas.</i> <i>Thus contribute to increase the performance of the whole forest-wood-energy supply chain, production of wood biomass included, obtaining a reduction on fossil fuel use.</i>	400.000	Not yet requested	Lombardy Region - DG Agricoltura – U.O. Programmazione Sviluppo Rurale e Semplificazione Amministrativa
	Operation 10.1.10 "Livestock manure spreading techniques". <i>The operation support the reduction of the atmospheric emissions (ammonia and methane) through the manure direct injection.</i>	5.400.000	Not yet requested. The deadline application only for 2016 is half of May 2016 (D.d.s. 16 dicembre 2015 - n. 11389).	
EARDF Veneto Region	Sub measures 6.4 - 8.6 – 16.2 , regarding EARDF focus area "5C facilitating the supply and use of renewable sources of energy, of by-products, wastes and residues and of other non food raw material (...)"	8.225.000	Granted in 26/05/2015. <i>Decisione della Commissione europea n. 3482</i>	Veneto Region, Agriculture and Rural Development Department
	Sub measure 16.2 regarding EARDF focus area "5D reducing green house gas and ammonia emissions from agriculture;	325.000		
	Sub measures 10.1.1 - 10.1.2 - 10.1.5 programmed for EARDF's Priority 4, with indirect effects under EARDF's focus areas 5D and "5E fostering carbon conservation and sequestration in agriculture and forestry"	22.200.000		
EARDF Piedmont Region	5D "Reduction of GHG and ammonia emissions from agriculture" (Sub-measures 4.1.3; 10.1.5 and partially 1.x; 2.x and 16.x)	34.549.323	Granted in 28/10/2015	Piemonte Region – Direction for Agriculture
EARDF Friuli Venezia Giulia Region	5C Int. 6.4.1 - Investimenti nelle energie rinnovabili	2.000.000	Granted at 24/09/2015	Regione autonoma Friuli Venezia Giulia Direzione centrale attività produttive, commercio, cooperazione, risorse agricole e forestali
	5C Int. 8.6 - tecnologie forestali per la trasformazione, mobilitazione e commercializzazione dei prodotti delle foreste	5.000.000		
	5E Int. 8.1 - sostegno alla forestazione/all'imboschimento	16.000.000		

	5E Int. 10.1.1 - Gestione conservativa dei seminativi: dotazione finanziaria 2.000.000	2.000.000		
TOTAL (EARDF)		130.184.498,00		
Subtotal EU:		809.358.465,00		
Other funds				
Emilia-Romagna Regional Funds (Environmental Action Plan –PAA 2014-2015)	Action 2.1 Actions for increasing and improving cycling-pedestrian pathways and green infrastructures in urban areas	1.873.149	Not yet requested	Emilia Romagna Region - Directorate General for Environment and for Soil and Coast Protection
	Action 2.2 Communication on sustainable mobility and life styles during the ecologic sundays (specific traffic restrictions)	81.468		
Veneto regional funds (PRTRA - Regional Air Quality Plan)	Action A2.2 Granting of subsidies to encourage the scrapping of traditional stoves with high-efficiency energy ones	2.000.000	Granted (March 2015)	Veneto Region, Environment Department
	Action A7.8 Granting of aid for the scrapping of polluting vehicles and replacement with low environmental impact ones newly registered	2.000.000		
	Action A7.15 Granting of aid to the Municipalities for bike sharing projects	1.131.351		
Slovenian Climate Change Fund - 2015/2016	5.1.2.1. Replacement of old domestic heating appliances Murska Sobota	924.000	granted by GOV: 05/02/2015	Republic of Slovenia, Ministry for Environment and Spatial Planning
	5.1.3.2. Promoting reduction of heat loss from buildings - Murska Sobota	2.557.820		
	5.2.2 Upgrade of public transport - Murska Sobota	320.000		
	7.1.2.1. Replacement of old domestic heating appliances Maribor	1.400.000		
	7.1.3.3. Promoting reduction of heat loss from buildings - Maribor	2.000.000		
	7.2.5 Upgrade of public transport - Maribor	1.280.000		
	4.1.2.1. Replacement of old domestic heating appliances Celje	450.000		
	4.1.3.2. Promoting reduction of heat loss from buildings - Celje	3.500.000		
	4.2.3 Promoting the use of electric and CNG vehicles - Celje	200.000		
	4.2.7 Upgrade of public transport - Celje	480.000		
	5.1.2.1. Replacement of old domestic heating appliances Zasavje	1.900.000		
	5.1.3.2. Promoting reduction of heat loss from buildings - Zasavje	2.900.000		
	5.1.2.1. Replacement of old domestic heating appliances Novo mesto	700.000		

Slovenian Climate Change Fund - 2015/2016	5.1.3.2. Promoting reduction of heat loss from buildings - Novo mesto	4.300.000	05/02/2015	Republic of Slovenia, Ministry for Environment and Spatial Planning
	5.2.3 Promoting the use of electric and CNG vehicles - Novo mesto	297.500		
	4.1.2.1. Replacement of old domestic heating appliances Kranj	450.000	granted by GOV: 02/04/2015	
	4.1.3.2. Promoting reduction of heat loss from buildings - Kranj	1.400.000		
	4.2.3 Promoting the use of electric and CNG vehicles - Kranj	640.000		
	5.1.2.1. Replacement of old domestic heating appliances Ljubljana	1.520.000	granted by GOV: 04/08/2015	
	4.1.3.2. Promoting reduction of heat loss from buildings - Kranj	4.691.999		
	5.2.3.1 Promoting the use of electric and CNG vehicles - Ljubljana	2.053.000		
Subtotal public:	41.050.287			
Private X				
Private Y				
Subtotal private:	0			
International funds:				
Total complementary:	850.408.752			

Notes (if applicable):