

The role of EuroGeoSurveys in the INSPIRE specification process

François ROBIDA (BRGM)

Chair of the Spatial Information Expert Group



The mission of Geological Surveys

- At regional or national level the collection of information on the state of the solid Earth and its processes is normally mandated to Geological Surveys
- Geological Survey Organisations are responsible for the acquisition, management and delivery of geological data and information

... in areas such as :

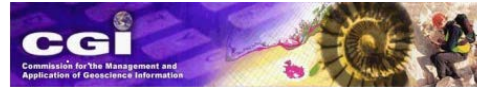
- natural resources related to the subsurface of the Earth (energy, including geothermal energy; minerals, water, underground space)
- the identification of natural hazards of geological origin, their monitoring and the mitigation of their impacts (earthquakes, natural emissions of hazardous gases, landslides and rockfalls, land subsidence, shrinking and swelling clays)
- environmental management, waste management and disposal
- ...

In Europe

- EuroGeoSurveys (EGS), The Association of Geological Surveys of Europe, represents [33 Member Organizations](#), (over 20.000 specialists working in numerous applications of geosciences)
- EuroGeoSurveys aims at providing the European Institutions with expert, neutral, balanced and practical pan-European advice and information

A strong commitment of European Geological Surveys to build SDIs

1. INSPIRE
2. Standardisation activities (IUGS/CGI)



3. OneGeology and OneGeology-Europe
4. EGDI

Related projects

- *OneGeology-Europe*
- *Promine*
- *AEGOS*
- *PANGEO*
- *EuroGeoSource*
- *Emodnet*
- *GeoSeas*
- *SubCoast*
- *Thermomap*
- *GeoRG*
- ...

... and EGDI-Scope



7th EUREGEO
EUropean
Congress
on REgional
GEOscientific
Cartography
and
Information
Systems

EuroGeoSurveys
Association of the
Geological Surveys
of Europe

Bologna - June 12th – 15th 2012

The 34 INSPIRE data themes

- Annex I

1. Coordinate reference systems
2. Geographical grid systems
3. Geographical names
4. Administrative units
5. Addresses
6. Cadastral parcels
7. Transport networks
8. Hydrography
9. Protected sites

- Annex II

1. Elevation
2. Land cover
3. Orthoimagery
- 4. Geology**

- Annex III

1. Statistical units
2. Buildings
- 3. Soil**
4. Land use
5. Human health and safety
6. Utility and Government services
7. Environmental monitoring facilities
8. Production and industrial facilities
9. Agricultural and aquaculture facilities
10. Population distribution – demography
11. Area management / restriction / **regulation zones** & reporting units
- 12. Natural risk zones**
13. Atmospheric conditions
14. Meteorological geographical features
15. Oceanographic geographical features
16. Sea regions
17. Bio-geographical regions
18. Habitats and biotopes
19. Species distribution
- 20. Energy resources**
- 21. Mineral resources**



INSPIRE process

- **Preparatory phase (2004-2006)**
- **Transposition phase (2007-2009)**
- **Implementation phase (2009-2013).**

- ... and then maintenance of the infrastructure organised by the EC... supported by the Member States and the communities

EuroGeoSurveys participation to INSPIRE

- EGS member of INSPIRE Expert Group (since 2002)
- EGS registered as a Spatial Data Interest Community (SDIC)
 - Some EGS members registered as LMOs (Legally Mandated Organisations) : UK, Germany, Netherlands, Norway, Italy, Switzerland, Latvia, France,...
- EGS experts participate to Implementing Rules Drafting Teams:
 - NGU - Per Ryghaug (Metadata support team)
 - BGR – Christine Asch (Data Harmonisation support team)
 - BRGM – Francis Bertrand (Data Harmonisation support team)
 - BRGM - Jean-Jacques Serrano (chair Network Services team)
 - BGS - Ian Jackson (Data Sharing and re-use support team)
- *Clearly the most active and visible community (apart from mapping agencies)*
- *“Geology” ranked in Annex II*

Coordination through an EGS

GI & INSPIRE working group / Spatial Information Expert Group

- to prepare the contribution of EGS to review the implementing rules (IR) (and co-ordinate with direct contributions from LMOs)
- to share expertise about interoperability developments and implementation
- to co-ordinate relation between EGS and standardization bodies (IUGS/CGI, OGC,...)
- to propose experts for the TWGs (Thematic Working Groups) to be set-up by the Commission for writing the IR
- to prepare the material to be submitted to the TWGs (including “uses cases”)
- To co-ordinate the comments from EGS

→ Not only a technical question, but a strategic issue

Prague, 27 August 2008

Bologna - June 12th – 15th 2012

Scope and focus of the EGS - SIEG (Spatial Information Expert Group)

- Spatial Information is really transverse → the SIEG has strong connections with all the other EGS Expert Groups that cover thematic areas, and which contribute to the EGS information strategy in their respective domain.
- The SIEG focuses on the global consistency of the way spatial information has to be defined, managed and delivered to provide harmonised services at the European scale.
- It also has to provide EGS with a clear technical strategy to guarantee the adequacy of the developments of its infrastructure in the context of global spatial information infrastructures (INSPIRE, GEOSS, SEIS, OneGeology, EGDI...).

Mission of the EGS - SIEG (Spatial Information Expert Group)

- INSPIRE ... until 2019 (at least)
 - Finalize the data specifications
 - Start « final » implementation
 - Start maintenance of specifications
- Support OneGeology-Europe
- EGDI
 - Provide expertise to develop a shared vision of what will be this infrastructure, how it will be managed, and how the different contributions will be assembled in a consistent way (both on the content and technical dimensions)

Activity report in 2011

- Brussels 30/01/2011 – 01/02/2011 – 25 participants,
- Teleconference 09/05/2011
- Edinburgh – 30/06/2011 – 20 participants (at the occasion of the INSPIRE conference)
- Members of the SIEG were also invited to different meetings:
 - “EGS Strategy workshop” in Ljubljana : 02/09/2011
 - “EGS Directors meeting” in Warsaw : 20-21/09/2011
 - “GE-MR TWG comment review meeting” in Barcelona : 8-10/11/2011
 - “GEO Plenary” in Istanbul – 16-17/11/2011 : presentation of SIEG activities and projects, participation to EGS booth
 - “Inspire Comment Resolution Workshop” in Ispra on 05-07 /12/2011

EGS participation to TWGs

EGS recognized for extensive contribution of its experts in TWGs

Role	Expert Name	Survey	Thematic Working Group
	Kristine ASCH	BGR	Geology and Mineral Resources
	Stefan BERGMAN	SGU	Geology and Mineral Resources
	Einar EBERHARDT	BGR	Soil
	Bjørn FOLLESTAD	NGU	Geology and Mineral Resources
Facilitator	Matthew HARRISON	BGS	Natural Risk Zones
	Andrew HUGHES	BGS	Geology and Mineral Resources
	Dominique JANJOU	BRGM	Geology and Mineral Resources
	Uffe LARSEN	GEUS	Geology and Mineral Resources
Editor	John LAXTON	BGS	Geology and Mineral Resources
	Miguel LLORENTE ISIDRO	IGME	Natural Risk Zones
	Tomasz NALECZ	PGI	Geology and Mineral Resources
	Simon PEN	TNO	Geology and Mineral Resources
Facilitator	Jean-Jacques SERRANO	BRGM	Geology and Mineral Resources
	Jouni VUOLLO	GTK	Geology and Mineral Resources

Comments produced by EGS

462 comments were collected and consolidated from 15 geological surveys (AUSTRIA, CZECH REPUBLIC, DENMARK, FINLAND, FRANCE, GERMANY, ITALY, POLAND, SPAIN, SWEDEN, SWITZERLAND, THE NETHERLANDS, UK, EMILIA ROMAGNA, CATALONIA) and EU projects (EuroGeoSource, Subcoast, Georg, OneGeology-Europe, PanGeo, Promine, Thermomap).

through a distributed thematic coordination

<u>Theme</u>	<u>GSO</u>	<u>Coordinator</u>
Geology	ISPRA	Marco Pantaloni
Hydrogeology	BGR	Kristine Asch
	IGC	Sara Figueras Geophysics
		Jordi Marturia
Natural Risk zones	CZS	Lucie Kondrova
		Dana Capova
Mineral Resources	SGU	Lars-Kristian Stölen
Energy resources	TNO	Robert-Jan VanLeeuwen

Bologna -

Comments received for Geology and Mineral Resources TWG

- 1138 comments about Geology
- 282 comments about Mineral Resources
- Every comment received a specific answer

EGDI

- A strategic action of EGS
 - To contribute to the European environmental and geoscientific infrastructure
 - within INSPIRE
 - ... and beyond INSPIRE

EGDI : European Geological Data Infrastructure

- A new European Project , building on OneGeology-Europe infrastructure
- Supported by EuroGeoSurveys (EGS)
- EGDI will provide the backbone for serving interoperable, pan-European geological data currently held by GSOs, and data from past, ongoing and future European projects.
- EGDI-Scope will focus on:
 1. Developing connections with and gathering user requirements from EGDI end-users;
 2. Selecting and prioritizing datasets producing maximum societal benefit;
 3. Technical design
 4. Models for governance and future funding of the EGDI
- Kick-off in June 2012

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What next ?

- We build an infrastructure, we must
 - populate it
 - develop “services / uses” of on line data
 - extend it to other « INSPIRE » related data (applied maps, derived products, 3D,...) ?
 - produce operational / reliable services

INSPIRE is not the end of the story... we must continue to be proactive in the development of standards for data and information products

Thank you

François ROBIDA
Chair Spatial Information Expert
Group

EuroGeoSurveys
f.robida@brgm.fr