



Title	Sustainable Tourism Action Plan	
Proposer(s)	Public institution Nature Park Medvednica	
Partners	City of Zagreb - Traffic Office, Police service, ZET (Zagreb Electric Tram), Croatian forests Ltd, local structures, tourist boards and tourist agencies	
Specific Objective	Development of a participation process to define a mobility management plan for the pilot area of Medvednica.	
Description of the Protected Area	$\label{eq:response} with the surrounding agricultural areas and separate grows become a favourite resort of the inhabitants of Zagreb. \\ \end{tabular}$	





	Since Medvednica is traditionally exceptionally well visited, in the Park were developed numerous and various facilities for visitors - from educational trails and programs, Info Centres, to major tourist attractions such as the medieval Rudnik Zrinski (mine), cave Veternica, and old medieval fort Medvedgrad. On Medvednica there are about 70 hiking trails and 9 interconnected circular bike trails. The highest peak of Medvednica, Sljeme is known ski resort, with arranged and well-equipped tourist facilities, which will the World Cup "Snow Queen" takes place, which includes women's and men's slalom. The highest peak, Sljeme, is part of the Pilot area of the CEETO project. It is especially attractive during winter because of its ski center (Picture 2.) for citizens of Zagreb and therefore the area is subjected to many problems. A winter sports center is based on the northern slopes towards Sljeme. The center has hosted several FIS World Cup slalom skiing races, known as the Snow Queen Trophy.
Description of the Protected Area	ways exist to reach the mountain: by road (with a car or a bus) or on foot (numerous mountain paths). In the past, a gondola lift (cable car) was present, which started from the Gračani neighborhood just below Medvednica. The cable car had run from 1963 to 2007 and the gondola had a capacity for four people, with a 23-minute journey time, covering a distance of 4023 m. The new gondola lift will use the existing route extended by 3 km and will help with traffic congestion but it is still in process of building and not operational. During the winter months, with the increase of visitors, there are problems with traffic congestion and parking places. While the World Cup "Snow queen" is held the main road leading to the Sljeme top is closed which leads to traffic jams up to 5 km long. Consequently, neither people neither ambulance or
	Croatian Mountain Rescue Service cannot reach the peak zone.
	Picture 2. The pilot area



Medvednica



Medvednica's biodiversity is one of its greatest characteristics. It is manifested through the diversity of species, habitats and landscapes. The Park is situated quite nearby the City of Zagreb and is exposed to numerous pressures and threats, however it represents a valuable area that needs to be protected not only for nature components preservance, but also because of many human interests. The number of 1205 plant species, shows not only the good habitat preservance, but also the richness of flora. Forests and forest communities constitute a fundamental phenomenon of Medvednica Nature Park. There are eight special forest reserves in the Park that were declared localities of valuable forest communities in 1963. Medvednica Nature Park has become a member of Ecological Network Natura 2000 in the year 2013. According to the Natura 2000's Ordinance on Ecological Network and Habitats Directive, site HR2000583 Medvednica has listed 20 target species, (examples Picture 3.-6.) and 9 target habitat types (SDF). In the following years researches and monitoring will be centered to the target species and habitats. Natural values of In spite of the large percentage of forest habitats (more than 80 %), other types Nature Park of habitats (meadows, grasslands, subsoil, orchards, vineyards and rural areas) should not be neglected. Numerous water habitats (80 creeks and 200 wellsprings) and water organisms, subsoil habitats that count around 60 speleological objects (caves) that are mostly closed for public, except for Veternica Cave that is in touristic function, grassland habitats which are mostly endangered by succession and excerpted localities of high biodiversity, etc.

> Diverse habitats on Medvednica and altitude layering give home to different fauna. However, expansion of the Zagreb suburbia, urban centres and communication drastically changed those habitats, but numerous animal species, some of them endangered or protected, still live there. Recent rich fauna is a fact that contributes that habitats of animal species are still of good quality with satisfying conditions.



Picture 3. Lucanus cervus



Picture 4. Austropotamobius torrentium





	Ficture 5. Rhinolophus hipposiderosMedvednica was formed millions years ago period, 440 milion years old. There are n history like well preserved fossils, minerals rocks types. Geological history of Medved Zrinski mine from middle ages shows us mine is arranged for visits.	numerous evidences from geological s and presence of the three different dnica is very complex. Silver mine,	
Historical signifance of Pilot Area in Nature Park Medvednica	Natural and cultural-historical significance of Medvednica are mutually caused and interlaced. In the mid-19th century Medvednica received its recognizable recreational-tourist function for the first time. The first wooden pyramid was built on the highest peak of the mountain in 1870 and it represented the first climbings' object in the history of Croatian mountaineering. Numerous trails and climbers' lodgings were founded and in the late 19th century the Sljeme road was built. Between the two World Wars tourist-recreational function of the area intensively developed. The first ski jumping hill was constructed in 1934. The majority of climbers' lodgings were built after the Second World War - Puntijarka, Grafičar, Risnjak, Lipa and others. The first ski slopes Crveni spust or the Red slope were fixed in 1946. Ski chairlift was constructed in Panjevina and a big cable car from the Tunnel was built in 1963. In that way sport and recreation have become one of the significant characteristics of the Medvednica area, especially in pilot area of CEETO project, which considers the peak area of the Park and the ski area.		
Availability and transport	Medvednica Nature Park is connected way. County road Ž 1049 passes through th peak zone and from the peak zone on the way towards Krapinsko-zagorska county as numerous macadam roads and 70 hiking t car by which the majority of the visitors w and the increase in number of vehicles is th From 2009. to 2012., car counter was insta In the Table 1 is a noticeable increase in to the park is in growth.	e Park. It is a one-way road until the e return to Zagreb. The road is two- nd in the peak area. There are also rails. The function of the ZET cable vere transported was stopped in 2007 he consequence. lled at the main entrance at Bliznec.	





	Table 1: Numbe	r of cars p	er year			
	Eco counter	2009	2010	2011	2012	
	Number of	50.000	53.309	64.750	66.823	
Availability and transport	been establishe of the bus rides visitors. According to the Public Institutio The lack of part seen during wee burdened with parked vehicles The City of Za project is in geomechanic re by 2020. Visitors of Medv 1. Marked hiking 2. Public transp 3. Vehicles of p 4. Bicycles Pollution in the the consequence	bus line from Mihaljevac to the hotel "Tomislavov dom" in the peak zone has een established as a replacement for the cable car. However, the frequency f the bus rides is not sufficient for the needs of the area and the number of isitors. ccording to the fact that the Sljeme road is categorized as a county road, the ublic Institution cannot regulate or limit the traffic through the Park. he lack of parking spaces is also among the biggest problem. It is in particular een during weekends and during ski season when the peak zone is additionally urdened with vehicles of personal use. Problems arise due to inadequately arked vehicles that block the access to the public transport. he City of Zagreb is managing the cable car project, at the moment the roject is in the phase of construction for access roads and making eomechanic research for pilot pillars. It is expected to be finalized and in use y 2020. isitors of Medvednica Nature Park have a couple of ways of getting around: . Marked hiking and mountaineering trails. . Public transport (bus) . Vehicles of personal use			vever, the frequency a and the number of as a county road, the gh the Park. em. It is in particular k zone is additionally due to inadequately rt. at the moment the roads and making e finalized and in use of getting around:	
Visitor infrastructure	By development of the entire range of infrastructure (Picture 7.) for the visitors and diverse interpretative program, the communication with visitors and general public is carried out both directly and indirectly. Forest trail Bliznec has been adapted for persons with special needs. Informational centers on main entrances have been arranged. Bliznec information center has been in function since October 2012. Veternica cave, Zrinski mine and Medvedgrad are three main tourist attractions of the Park. Medvedgrad has become the most visited locality on Medvednica (according to the number in Table 2). Medieval town Medvedgrad will become a modern center for the visitors of Medvednica Nature Park in the future. On Medvednica there is more than 70 hiking trails and 9 interconnected circular bike trails. There is more than 15 objects with good food offer and refreshments. The highest peak of Medvednica, Sljeme is ski resort, with arranged and well-equipped tourist facilities.					





Visitor	Image: construction of the second s					
infrastructure	Number of the users of the Program, PINPM	2015	2016	2017		
	Number of visitors, Zrinski mine	4.535	5.591	4.902		
	Number of visitors, Veternica cave	4.837	7.085	5.330		
	Number of visitors, Medvedgrad	13.954	18.787	21.111		
	The number of children participated in educational programs	537	1.146	672		
	Number of visitors in professional management programs	59	100	100		
	Free program visits	5.480	4.000	4.500		
	Corporate volunteering	470	780	400		
	Individual volunteering	1	9	3		
	Professional practice	11	11	5		
	Professional training	4	3	1		
	Total	29.888	37.512	37.024		





Tourism in Medvednica Nature Park started to develop in the second half of the 19th century with the change of lifestyle (the expansion of Zagreb, industrialization). The visitor infrastructure started to develop, such as mountaneering trails, climbers' lodges, shelters, roads. Different societies were founded. Almost 150 years later that infrastructure has an additional value - a value of cultural, material and intangible heritage. Today Medvednica Nature Park is encountered in surrounding of more than one million of inhabitants - it is near the city of Zagreb, Zagrebačka County and Krapinsko-zagorska County that represent one quarter of total population of the Republic of Croatia. The assessment of annual visitors' number of Medvednica Nature Park is estimated to 1 000 050 and is taken from the study "Structure and attitudes of visitors of Medvednica Nature Park" (2009). It is impossible to set out an accurate number of visitors because there are around 90 entries in the Park. However, visits of different programs are counted, just as numbers of tickets sold for some of Medvednica's tourist attractions, data got by traffic counting mechanisms (of both road and pedestrian traffic) and data received by the estimations of number of visitors in various events in the Park. Number of visitors in Nature Park Medvednica 40000 Tourism in Nature Park 35000 Medvednica 30000 25000 20000 15000 10000 5000 0 2010 2011 2012 2013 2014 2015 2016 2017 Picture 8. Number of visitors in Nature Park Medvednica In the last 8 years, there is increasing number of visitors which is evident from the soldout tickets and the number od children in educational programs organized and conducted by Park employees (Picture 8.). Also, it is recorded that the number of international visitors on Medvedgrad is increasing. Regular Parks visitors are usually from one of the three surrounding counties.





Structure and Attitude of Visitors of Medvednica Nature Park' research from 2009	In 2009 Public Institution Nature Park Medvednica conducted survey questionnaire which included data analysis of the car counters and the information about Park infrastructures. Below are the conclusions: - Medvednica Nature Park is mostly visited by the domestic visitors - 99,53% - Inhabitants of the direct surroundings of the Park (the City of Zagreb and Zagreb county) are the largest source of demands for Medvednica Nature Park - 91,72% - The majority of the visitors of the Park are of younger and middle age - middle-aged (42,9%), have higher education degree (40,52%) and are employed (67%) - The majority of the visitors come to the Park during weekends (80,5%), a couple of times per year (37,4%). Only 5,3% of the visitors claimed it was their first visit to the Park - The majority of the visitors come to the Park with friends (50%) and family (34%) - 42% of the visitors received the information about the Park by informal sources (oral recommendation of friends and relatives) and official sources - the Internet (12,4%), articles in journals and in newspapers (10,5%) and radio and TV (2,7%) - 74% of the visitors stay in the Park for the half of the day and almost one quarter of the visitors come to the Park with their personal vehicles - 57% of the visitors are satisfied with the general signalization in the Park - The following motives are primary among the visitors of the Park: being in nature, the company of family and friends, leisure and recreation - The total number of estimated visitors of the Medvednica Nature Park in one year: 1 005 000
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	Table 2 SWOT analysis	
	Table 3. SWOT analysis Strengths	Weaknesses
	 Attractive and preserved natural and cultural heritage Pleasant climate for visits (fresh during summer, snow in winter, colorful during spring and autumn) The existence of contents for active vacation in the nature - ski slopes, cycling trails, spa northern of the Park Loyal visitors - many climbers from Zagreb visit Medvednica on regular basis Good partnerships - WWF, Europarc, Dinaric Arc Parks 	 Many stakeholders who manage infrastructure for visitors (services and facilities Inadequate traffic infrastructure (ZET cable car Expressed seasonality of visits to the Park Traffic - too many vehicles on weekends and during ski season, the lack of parking spaces, traffic jams, pollution, noise that endanger security of the visitors Concentration of the majority of the facilities and visitors in the peak
Swot analysis		zone
	 Opportunities Increase of new trends in tourism - visiting protected areas (so-called "green tourism"), health, cultural, adventure and active tourism Stakeholders Forum - an occasion to grow into the strong body that can solve the active problems in a proactive way - traffic signalization, parking lots, traffic connections Plans for cable car construction - the possibility of solving many traffic problems 	 Threats Increased pressure of the visitors in the peak zone and the decrease of quality of visits as its consequence Too many actors that do not collaborate sufficiently, two levels of the institutional framework (city and state level) - overlap and vagueness of the authority





Nature Park Medvednica Stakeholder's Forum	Public institution Nature Park Medvednica in 2014. commits itself to following the principles of the European Charter for Sustainable Tourism in Protected Areas and to the implementation of the agreed strategy and action plan. Therefore, Stakeholders Forum was established as one of the needed goals to achieve European Charter for Sustainable Tourism in Protected Area. Before the Stakeholders Forum was established, the collaboration with the stakeholders had existed but it had been limited to their smaller number and dealing with current business and situations in the Park. Integral approach to management in the Park is ensured through collaboration with various partners from local community, public institutions and other institutions, all included in the Stakeholders Forum, an important communication tool that has been established during ECST process (2013). Many workshops with estimated hundred participants took place. Various institutions for nature protection and cultural heritage, tourist sector (tourist boards and the Ministry of Tourism of the Republic of Croatia), fire fighters, police, catering and hotel trade sector and local communities were among the participants of those workshops. In the CEETO project, until now, four stakeholders meetings were held. In the spring 2019, the Final version of the Action plan for pilot area will be presented at the Stakeholder meeting, after the conducted survey on the field and their analysis.
Europarc federation	 Vision Sustainable Tourism in European protected areas provides a meaningful quality experience, safeguards natural and cultural values, supports local livelihoods and quality of life and is economically viable. Mission Through awarding the European Charter for Sustainable Tourism in Protected Areas, EUROPARC seeks to safeguard cultural and natural values by stimulating quality sustainable tourism, engendering partnerships to support local livelihoods, increase awareness of the need for sustainability, and promote international cooperation. Charter principles Giving priority to protection Contributing to sustainable development Engaging all stakeholders Planning sustainable tourism effectively https://www.europarc.org/sustainable-tourism/charter-principles/





Key objectives of Nature Park Medvednica Sustainable Tourism Strategy	 To define and strengthen the identity of Nature Park Medvednica as a sustainable destination, promote its natural and cultural values, as well as its offer to visitors, encouraging longer stay and exploration. To improve the system of management of visits to NPM, as well as of visitor flows. To develop and improve a variety of contents and activities to enhance the satisfaction of visitors with their visit, based on recreation and education about natural and cultural values of the Park. To connect, coordinate and cooperate with all internal and external stakeholders of the Park on integrated and sustainable development of tourism in NPM, as well as on its efficient promotion. To increase the awareness and understanding of the function of tourism in the Park, including its impact on the environment and residents of the Park, as well as its economic contribution. 	
Activities Action plan for Pilot area	Activity 1.1. To promote aesthetic, health and spiritual values of NPM fo human benefit Activity 2.1. Reconstruction of the ZET cable car - the City of Zagreb Activity 2.2. To explore the possibility of road recategorization after the cable car becomes active Activity 2.3. To explore the carrying capacity of the peak zone Activity 4.1. To examine the efficiency of web portal establishment fo promotion of the entire tourist offer in the Park of all the stakeholders of the Forum Activity 4.2. To support members of the Forum and others in conten development for visitors that preserve and contribute the Park values Activity 5.1. To continue with the monitoring of ski slopes Activity 5.2. To make a new integrated protocol for monitoring of ski slopes Activity 5.3. To carry out the survey of structure and attitudes of visitors of Medvednica Nature Park during the winter season	
	Sustainable Tourism Action Plan has been developed in cooperation with stakeholders although the description of the planned activities in detail will be elaborated after a conducted survey in the winter season in the PA.	



