



Coordinating and integrating state-of-the-art
Earth Observation Activities in the regions of
North Africa, Middle East and Balkans
and Developing Links with GEO related initiatives
toward GEOSS

GEO-CRADLE pre-Kick-Off Meeting
Friday, 18th of February, 2016

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Geological Survey of Montenegro

- The Geological Survey of Montenegro is the State Institution, partly funded by the Montenegrin Government
- Implementation of geological exploration projects which are identified as of particular interest to the State by the Ministry of Economy
- Planning and realization of geological projects for different purposes on the market
- International projects
- Date of foundation: August 31, 1945.
- Number of staff: 50

Organization:

- Department of regional geology, mineral resources and mineral resources concessions
- Department of hydrogeology, engineering geology and water concessions
- Department of mining works and research drilling
- Department of legal and financial affairs





National projects

Basic geological research

Program of geological exploration in Montenegro

- **Basic Geological map of Montenegro, 1:100.000.** Printed on 16 sheets, with Explanatory booklets.
- **Geological map of Montenegro, 1:200.000.** Printed on 2 sheets with Explanatory booklet.
- **Metallogenic map of Montenegro, 1:200.000.** Printed.
- **Structural – tectonic map of Montenegro, 1:200.000.** Not published.
- **Geomorphological map of Montenegro, 1:200.000.** Not published.
- **Mineral resources map of Montenegro, 1:200.000.** Not published.
- **Geochemical map of Montenegro, 1:200.000,** for three media: stream sediments, soil and parent rock and **Geochemical atlas of Montenegro.** Not published.
- **Geological map of Montenegro 1:50.000.** Project in progress
- **Basic Hydrogeological map of Montenegro, 1:100.000.** Project in progress
- **Basic Engineering–geological map of Montenegro, 1:100.000.** Project in progress



International projects

SUSTAINABLE AGGREGATES PLANNING IN SOUTH EAST EUROPE (SNAP-SEE) **Sustainable planning in the area of aggregates production and supply in the South East Europe: SEE PROGRAMME –Programme for South East Europe**

Project duration: October 2012 – November 2014

Lead partner: Montanuniversität Leoben, Austria

Project Partner for Montenegro: Geological Survey of Montenegro as IPA –I Project Partner

27 partners (institutions) from 14 countries of South East Europe participated in realization of the project. From Montenegro, acting as partners on project realization, two more institutions were involved: Ministry of economy and Environmental protection agency.

The goal of the project was to facilitate and improve planning in the area of aggregates production by developing planning tools that would be support to national and regional planning of primary and secondary aggregates production, in South East Europe countries.

Publication: Toolbox for Agregates Planning; www.snapsee.eu



International projects

COORDINATION OF INFORMATION ON THE ENVIRONMENT – CORINE Land Cover (CLC)

The Eionet network National Reference Centres Land Cover (NRC/LC) are producing the national CLC databases, which are coordinated and integrated by EEA. CLC is produced by the majority of countries by visual interpretation of high resolution satellite imagery.

CLC has a wide variety of applications, underpinning various Community policies in the domains of environment, agriculture, transport, spatial planning etc.

Geological Survey of Montenegro, being NRC – National Reference Center for Montenegro, was in charge for CARDS project: CORINE Land Cover mapping in Montenegro: CLC1990, CLC2000 and CLC2006. Project was successfully realized in period of 2005-2008.

Within GMES Initial Operations (GIO) Land Monitoring 2011 – 2013, GSM produced CLC2012 database.

Data on Montenegro CLC mapping are integrated in European data base;
<http://land.copernicus.eu/pan-european/corine-land-cover>



International projects

Harmonised European Land Monitoring - HELM

Harmonisation of data related to land monitoring in Europe, 7th Framework Programme

The lead partner: Environmental protection agency of Austria

Project status: Project was officially finished in 2013.

Geological Survey of Montenegro participated in implementation of HELM project as project member within Extended consortium, with obligation to actively contribute to goals achievement that are set by the Project, that is finding the best ways for harmonisation of data for land monitoring on national, regional and European level and coordination of national activities in this area.

Publication: Harmonised European Land Monitoring – HELM, Findings and Recommendations of the HELM Project; http://www.umweltbundesamt.at/en_helm/



International projects

European Marine Observation and Data Network - EMODnet-Geology

Project coordinator: BGS, UK

EMODnet-Geology Project started in October 2013 (after preparatory phase 2009-2012) and will run for 3 years. The partnership includes 36 marine organisations from 30 countries that contribute information in all of the European Regional Seas.

The geology data available includes:

- sea-bed substrate
- sediment accumulation rate
- sea-floor geology
- bedrock lithology
- bedrock stratigraphy
- coastline migration
- mineral resources (oil and gas, aggregates, metallic minerals)
- geological events (earthquakes, submarine landslides, volcanic centres)

The Geological Survey of Montenegro as project partner contributes to project implementation by collecting, processing and providing data on Montenegrin part of Adriatic sea.



International projects

Mineral Deposits of Public Importance -MINATURA2020

Developing a concept for a European minerals deposit framework, H2020

Project coordinator: Minpol, Austria

The objective of MINATURA2020 is to develop a concept and methodology for the definition and subsequent protection of “mineral deposits of public importance” in order to ensure their “best use” in the future in order to be included in a harmonized European regulatory/guidance/policy framework.

MINATURA2020 is a 3-year EU funded project that relies on the strength of an international consortium of 24 partners (professional institutions, universities, industry representatives, etc. from European countries).

The Geological Survey of Montenegro has a role of a project partner with tasks to collect and analyse relevant data for Montenegro and contribute achievements of the project objectives.

<http://minatura2020.eu/>



Thank you!