

# **EuroGeoSource: EU Information and Policy Support System for Sustainable Supply of Europe with Energy and Mineral Resources**



**Jasna Šinigoj, Geological Survey of Slovenia  
Alexei Tchistiakov, Geological Survey of The Netherlands  
on behalf of EuroGeoSource Consortium**

**7th Session, Ad Hoc Group of Experts on Harmonization of Fossil Energy and Mineral Resources Terminology, Geneva, 29-30 October 2009**

# EuroGeoSource

- **The ICT PSP Call information: Theme 6.2 Geographic information**
- **Type of the project: Pilot (Type B) - stimulating the uptake of innovative ICT based services and products**
- **with a budget of 2.5 million EUR**
- **starts February 1, 2010**
- **ends January 31, 2013**
- **The project consortium consists of:**
  - 11 EU Geological Surveys,
  - 1 University,
  - 2 commercial data added value companies



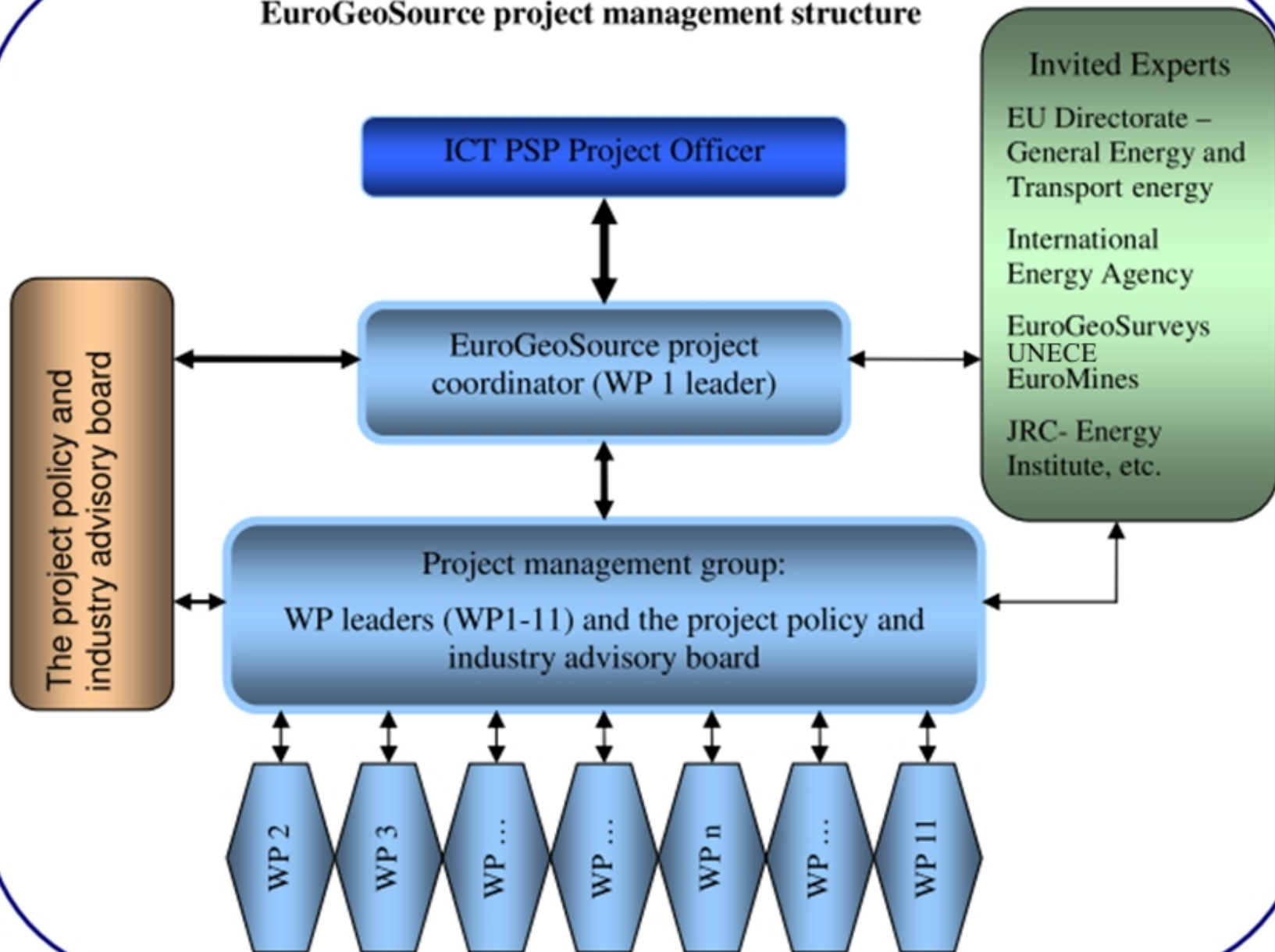
# Project consortium

1. **Coordinator TNO Built Environment and Geoscience (TNO), The Netherlands**
2. **Geological Survey of Slovenia (GeoZS), Slovenia**
3. **Ministry of Environment and Water (MOEW) Directorate of Geology and Protection of Subsurface, Bulgaria**
4. **Geological Institute of Romania (IGR), Romania**
5. **Polish Geological Institute (PGI), Poland**
6. **Eesti Geoloogiakeskus OÜ / Geological Survey of Estonia (EGK), Estonia**
7. **Geological Institute of Hungary (MAFI), Hungary**

## **Project consortium**

- 8. Royal Belgian Institute of Natural Sciences (RBINS), Belgium**
- 9. Instituto Nacional de Engenharia, Tecnologia e Inovação, I.P. (INETI), Portugal**
- 10. Geological, Seismic and Soil Survey of Emilia-Romagna Region (SGSS), Italy**
- 11. University of Zaragoza (UZ), Spain**
- 12. Geological Survey of Denmark and Greenland (GEUS), Denmark**
- 13. Geodan Software Development & Technology (Geodan), The Netherlands**
- 14. GeoSpatiumLab s.l. (GSL), Spain**

## EuroGeoSource project management structure



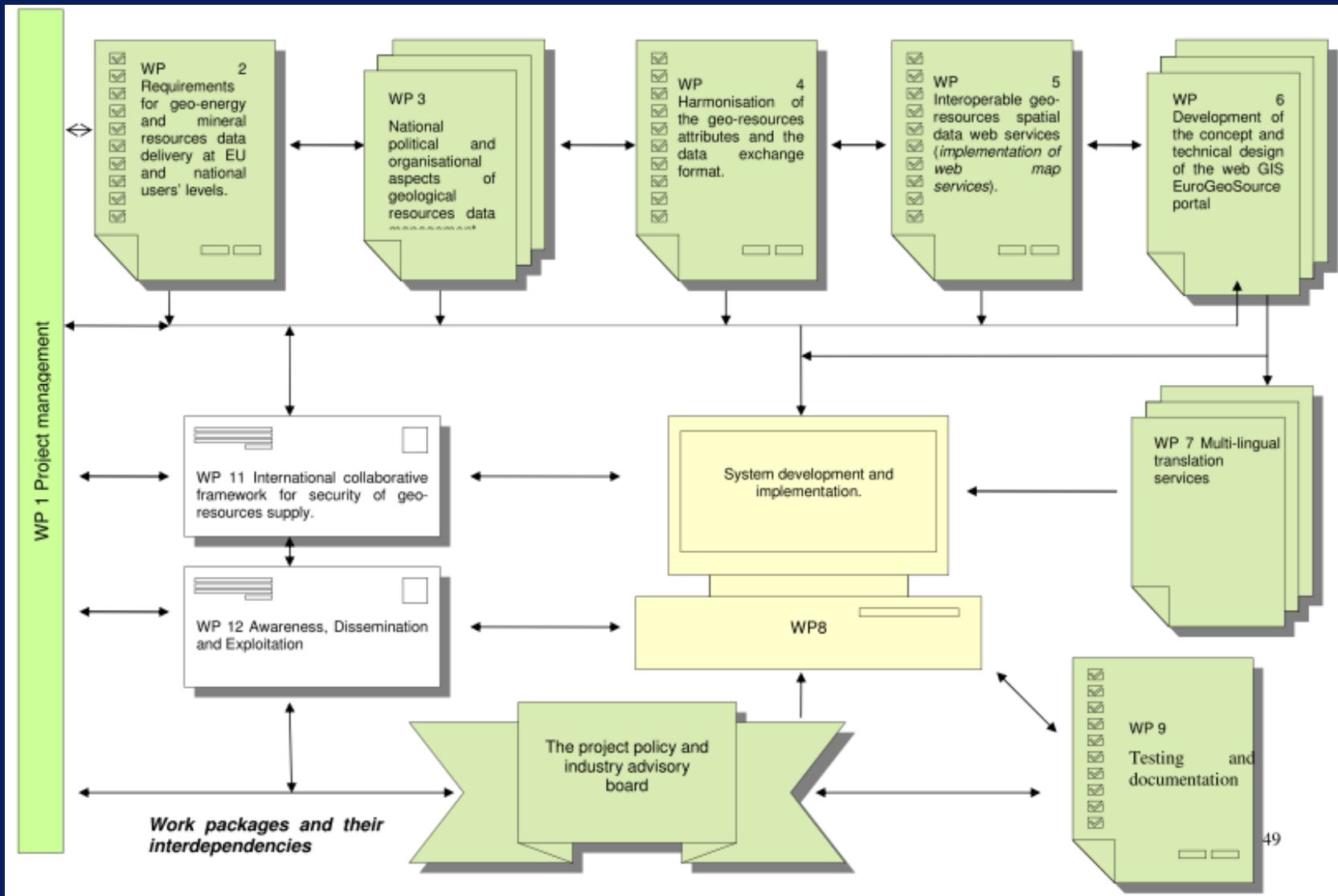
# **EuroGeoSource Advisory Board**

- 1. United Nations Economic Commission for Europe, UN**
- 2. Association of the Geological Surveys of Europe, (EuroGeoSurveys), International**
- 3. The Institute for Energy of the Joint Research Center of the European Commission (JRC EI), EU**
- 4. European Association of Mining Industries, International**
- 5. Estonian Association of Mining Enterprise, Estonia**
- 6. BULGARTRANS GAS: the Bulgarian national company for storing and transporting gas, Bulgaria**

# **EuroGeoSource Advisory Board**

- 7. Directorate for Energy of the Ministry of Economy of Slovenia, Slovenia**
- 8. National Agency for Mineral resources of Romania, Romania**
- 9. Hungarian Office for Mining and Geology, Hungary**
- 10. British Geological Survey, The United Kingdom**
- 11. IGN France International (IGN FI; a subsidiary of the French National Geographic Institute), France**

# Work packages and their interdependencies

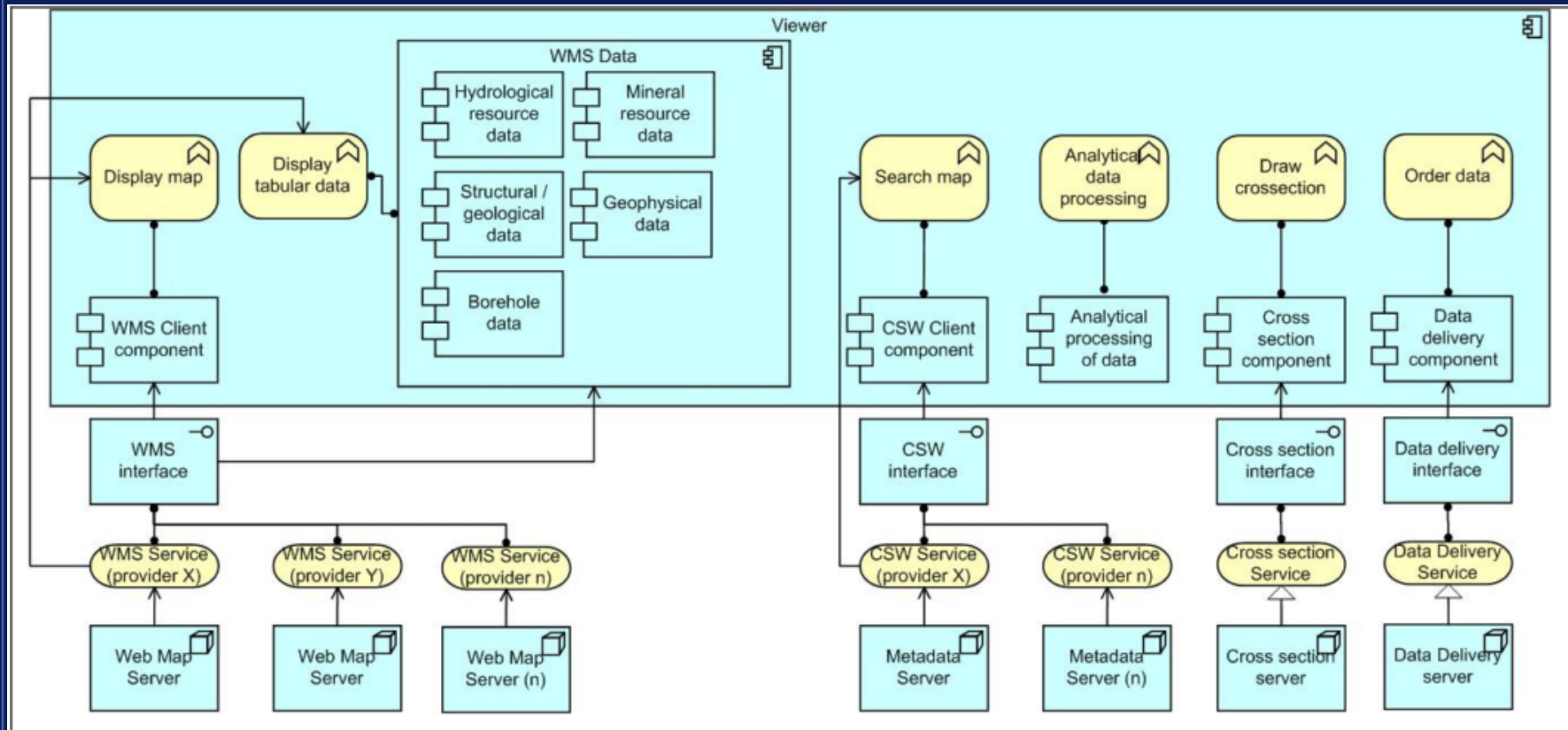




# The project objectives

- The main objective of the project is to develop the EU Information and Policy Support System that can be used for Sustainable Supply of Europe with Energy and Mineral Resources.
- The Web GIS-based system will make it possible to visualize and deliver spatial and attribute information regarding the hydrocarbon and mineral resources in the EU member countries as well as data about depleted and prospect reservoirs and the transportation network ('midstream').

# Conceptual architecture of the EuroGeoSource system






# The project objectives

- **Ensure users and their needs are at the centre of the approach by involving the pilot beneficiaries in the project as well as extensively interviewing the major players in the energy and mineral resources sectors of the EU economy, including the relevant directorates of the EC, national ministries, production and transportation companies**

# The project spatial content


- The data sets that are planned for the project are primarily produced and collected and held by public bodies, namely by the participating geological surveys or the member state authorities.
- In total more than 100 data sets will be available for the project.
- The data sets include geographical information on the operational fields, depleted fields, potential underground gas storage reservoirs, geological prospects, and transportation network.

# The project spatial content



**GeoZS**

Geološki zavod Slovenije



Trenutni aktiven list

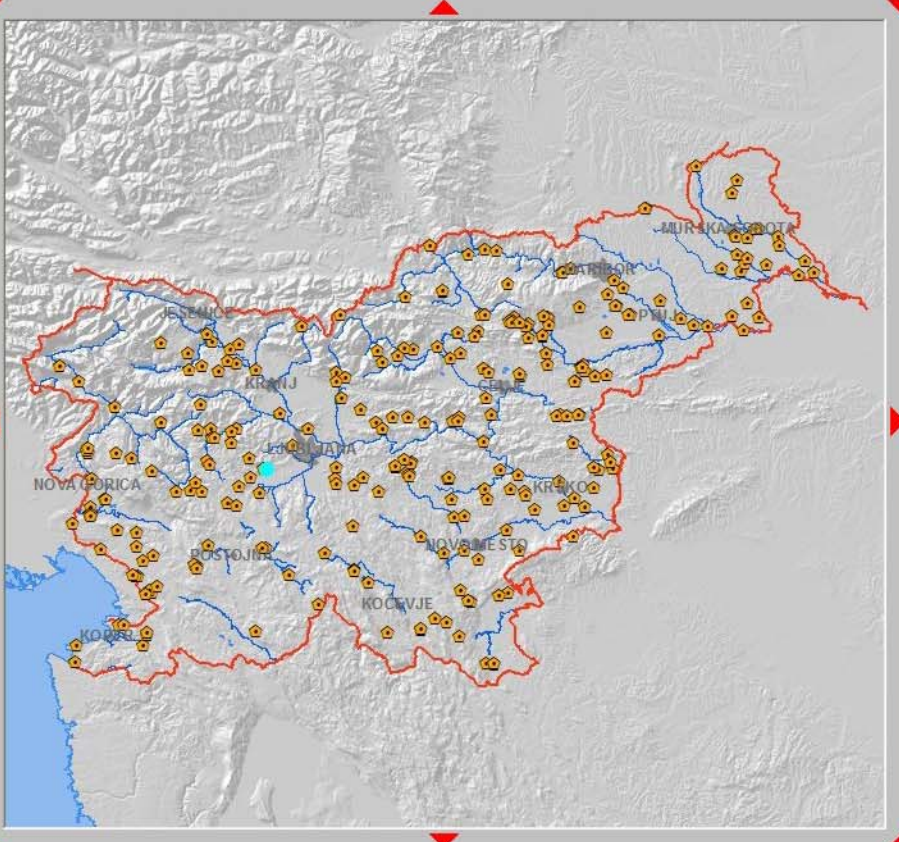
Nahajališča mineralnih surovin (POINT)

Trenutno merilo

1 : 1460022 OK

- Povečava
- Pomanjšava
- Celotno območje
- Premik
- Poizvedba-točka
- Poizvedba-območje
- Povpraševanje
- Počisti izbiro
- Tiskanje
- 
- Legenda
- 
- Pomoč
- Prijavi napako
- Med Priljubljene

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Geo ZS



SLOJI



- Nahajališča mineralnih surovin (POINT)
- Nahajališča mineralnih surovin (POLYGON)
- Občine
- Katastrske občine
- Parcele ZK
- Meja
- Meja zunanja
- Mesta
- Reke
- Jezera, morje
- Senčen relief
- DPK250S
- DPK250B
- tk25\_infra
- tk25\_hidro
- tk25\_izohipse
- DOF050

Osveži prikaz

Samodejno osveževanje

- Zaprta skupina slojev, s klikom se odpre.
- Odprta skupina slojev, s klikom se zapre.
- Skrit sloj, s klikom postane viden.
- Viden sloj, s klikom postane skrit.
- Neaktiven sloj, s klikom ga aktivirate.
- Aktiven sloj.

# The project spatial content


Geološki zavod Slovenije


Trenutni aktiven list

Nahajališča mineralnih surovin (POINT)

Trenutno merilo

1 : 106416

Povečava

Pomanjšava

Celotno območje

Premik

Poizvedba-točka

Poizvedba-območje

Povpraševanje

Počisti izbiro

Tiskanje

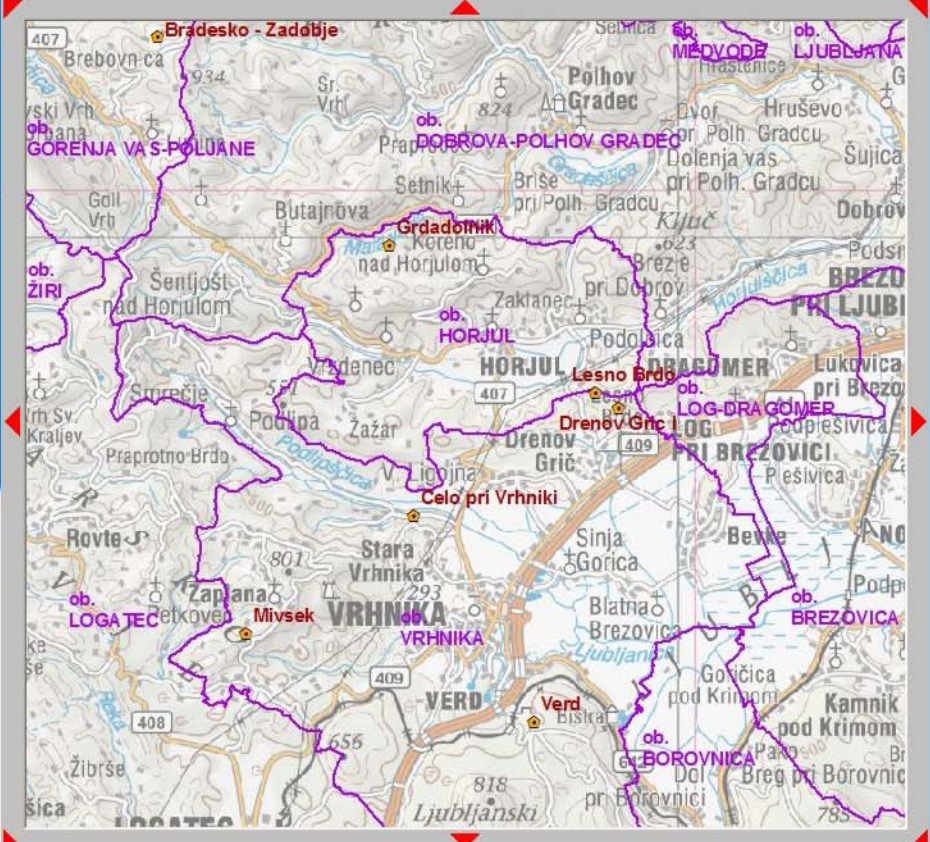
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# The project spatial content


Geološki zavod Slovenije


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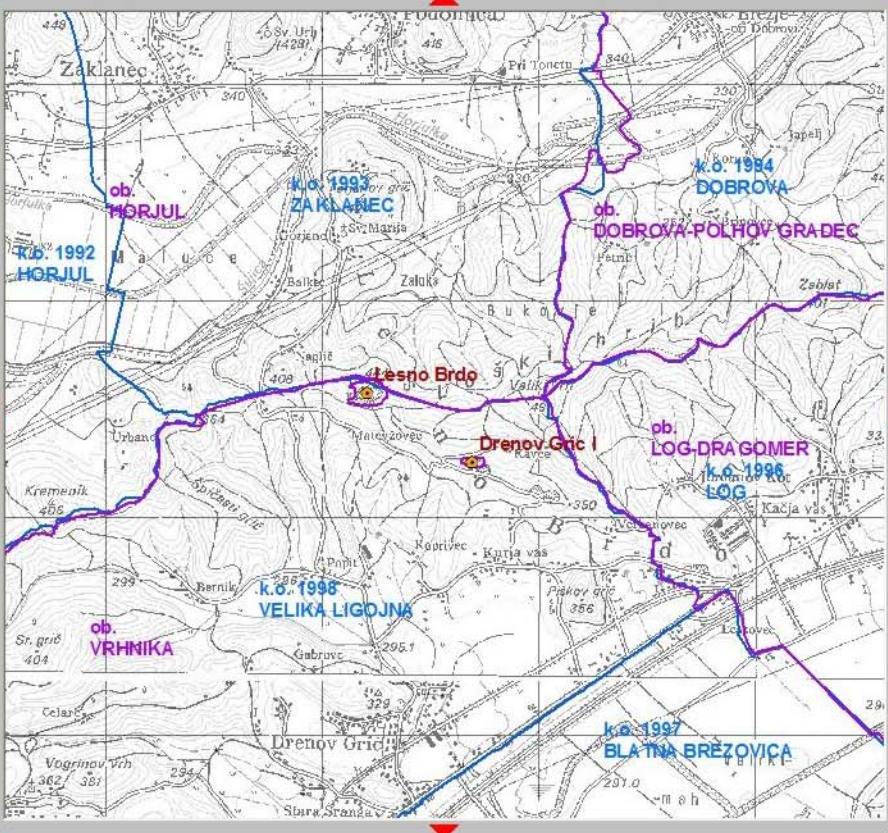
Nahajališča mineralnih surovin (POINT)

Trenutno merilo

1 : 22338 OK

- Povečava
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# The project spatial content


Geološki zavod Slovenije


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Trenutno merilo

1 : 1969 OK

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# Cooperation with the UNECE

- United Nations Economic Commission for Europe (UNECE) - Ad Hoc Group of Experts on Harmonization of Fossil Energy and Mineral Resources Terminology
- Member of the project Advisory Board
- To promote cooperation with the United Nations Framework Classification for Fossil Energy and Mineral Resources
- to achieve a broad consensus amongst and beyond the project beneficiaries on methods and standards



The screenshot shows the UNECE website header with the logo and text "UNECE United Nations Economic Commission for Europe". Below the header is a navigation menu with links: Home, About UNECE, Programmes, Information, Meetings, Contact Us. A search bar and "Site map" link are also visible. The main content area features a blue banner for the "SUSTAINABLE ENERGY DIVISION" with a note: "Please note that, unless otherwise indicated, all the documents provided below are in PDF format." Below this, the text reads: "7th Session, Ad Hoc Group of Experts on Harmonization of Fossil Energy and Mineral Resources Terminology, Geneva, Palais des Nations, Salle XI, 29-30 October 2009". On the left side, there is a sidebar with "Energy Homepage" and "Activities" sections.

# Cooperation with the EU projects

- **The Promine project - Nano-particle products from new mineral resources in Europe.**
  - FP7 - *NMP-2008-4.0-5*
  - Innovative concepts and processes for strategic mineral supply and for new high added value mineral-based products
  - To develop pan-European GIS-based database containing the known and predicted metalliferous and non-metalliferous resources
  - <http://promine.gtk.fi/>
- **The SARMa project - Sustainable Aggregates Resource Management**
  - The South East Europe Transnational Cooperation Programme
  - to develop a common approach to SARM and SSM across SEE
  - develop a unified information infrastructure and common understanding of aggregates based on EU guidelines and directives
  - <http://www.sarmaproject.eu>

# Cooperation with the EuroGeoSurveys

- EuroGeoSurveys is an organisation of 33 European Geological Surveys. Statutory aims are to address the European issues, to promote contribution of geosciences to EU affairs, to assist EU to obtain technical advice and to provide a network between the geological surveys.



- **EXPERT GROUPS:** Geochemistry, Geohazards, Marine Geology, Mineral Resources, Soil, Spatial Information, Water

# European Institutions

- + Provides science-based advice
- + Provides access to data, information and expertise
- + Participates to working groups
- + Formulates proposals

(PROACTIVITY)

BRUSSELS  
OFFICE

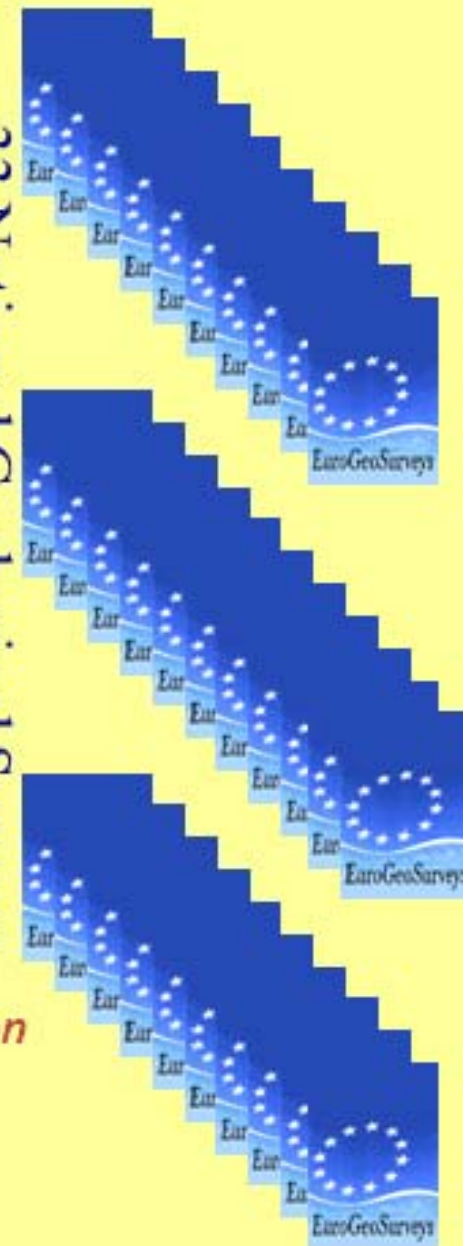


The Geological Surveys of Europe

(REACTIVITY)

- + Informs on policy development and implementation
- + Transmit requests and enquiries

33 National Geological Surveys



# Expert Group MINERAL RESOURCES

- **Main goals:**
  - Establishing European Mineral Intelligence within the EGS members in the core,
  - Coordination of EU projects related to minerals among all members of EGS.
- **Activities within:**
  - Raw Materials Initiative / EU minerals framework
  - European Technological Platform – Sustainable Mineral Resources
  - Other Initiatives .....
- **Chair of Expert Group / Contact: Slavko Solar**  
**([slavko.solar@geo-zs.si](mailto:slavko.solar@geo-zs.si))**

# Contribution to EU policies

- Creation of the **Trans European Energy Networks** is integral part of the European Union's overall energy policy objectives, increasing competitiveness in gas markets, reinforcing security of supply, and protecting the environment ([http://ec.europa.eu/energy/infrastructure/index\\_en.htm](http://ec.europa.eu/energy/infrastructure/index_en.htm)).
- The project will improve the European geo-resources data base to make it a tool for better EU policy and better access to the resources.
- The project will map (document) the location of the known and potential EU geo-energy occurrence and quantify their economic value as reserves (proven) or resources (inferred) use and share the information to manage their sustainable use; etc.