EuroGeoSource.eu

A multilingual Web GIS System that brings harmonised information on Energy and Mineral resources
to your desktop

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Central motivation

Make ER and MR resources data accessible and comparable across Europe to facilitate sustainable use of resources
EGSource brings you:

- Harmonised INSPIRE compliant data from 9 EU countries
- 92 maps from Petroleum Geological Atlas SPBA
- More than 100 additional national datasets
- State of the art architecture, open software
- Added value functionality and great performance
- Desktop portal / Android app / Windows RT
Results

... covering 9 countries

Missing countries can add their data easily
By using the EuroGeoSource toolbox
... high level of detail in partner countries
... detailed features: Titanium in Romenia

Even more details...

Details of the mine

Extent of occurrence
Results

... cross country statistics

UNFC classification
Results

... uses other INSPIRE data
Results

... and more INSPIRE data

Emodnet
Results

... and even more INSPIRE data

ProMine: cobalt
Results

... and 92 maps from SPBA energy atlas

showing extent of oil and gas fields in Germany and UK continental shelf
- Created INSPIRE compliant harmonised data model for Energy and Mineral resources
- Map national data to EGSource data model
- Create INSPIRE compliant web services from EGSource data model
- Created additional web services from central system, using the data from national web services
- Built data portal that uses these additional web services

Objective: make it easy for EuroGeoSource partners (and others) to provide INSPIRE compliant data to the EuroGeoSource system.
Distributed WEB system

Mediation layer

Access layer

Client layer

Co-funded by the European Union

EGSource - 23-27th June 2013  Florece Italy  Stephan Gruijters, coordinator
EGSource access layer

Partner specific  Provided by EGS

Local dataset → ETL process → EGS Relational database

- deegree
- WFS

Application schema
Mapping rules

harvest

EuroGeoSource toolbox downloadable at www.eurogeosource.eu
Data is key

• Maintain data at its source

• Free and public access is a dream:
  – Confidentiality
  – National politics

• Added value is already created by the combination of data
Lessons learned

Harmonisation is essential

- Pan-EU data assimilation needs it

- Using data specifications improves data specifications

- Data specifications:
  - Are ‘dynamic’
  - Need maintenance
Lessons learned

IT is a must-have

- Performance dictates ‘cloud’ implementation

- Using different platforms enhances usability

- First step to added value functionality opens a world of possibilities (and new choices to make).
What’s next

INSPIRE data specification

- Extensions
  - Projects
  - V 3.0

INSPIRE Maintenance and Implementation Framework (MIF)

- Data model
  - Voidable
  - Core

- V 3.0

- Supportive to implementation
- Responsive to lessons learned from Implementation
- Comprehensive (cross cutting effects)
- Flexible (new requirements from new policies)

EGDI

EGSource - 23-27th June 2013 Florence Italy Stephan Gruijters, coordinator
• Sustain results through European Geological Data Infrastructure:
  • Maintain specifications: community in the lead
  • Link to other harmonisation activities: UNFC - industry
  • Enhance added value functionality for end-users
  • Ensure full coverage