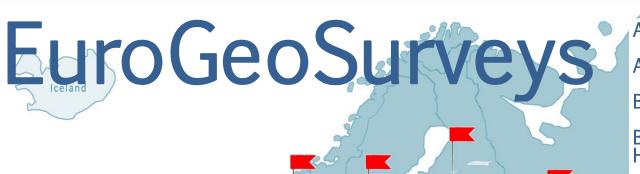


EGS -ASGMI Workshop, Madrid, 2015



40 Years Listening to the Beat of the Earth



Albania Lithuania

Austria Luxembourg

Belgium The Netherlands

Bosnia & Herzegovina

Crnatia

Norway

Malta

Poland

Portugal ch Republic

Romania

Russian **Federation**

Finland

France

FYROM

Germany

Greece

Hungary

Ireland

Italy

Kosovo

Serbia

Slovakia

Slovenia

Spain

Sweden

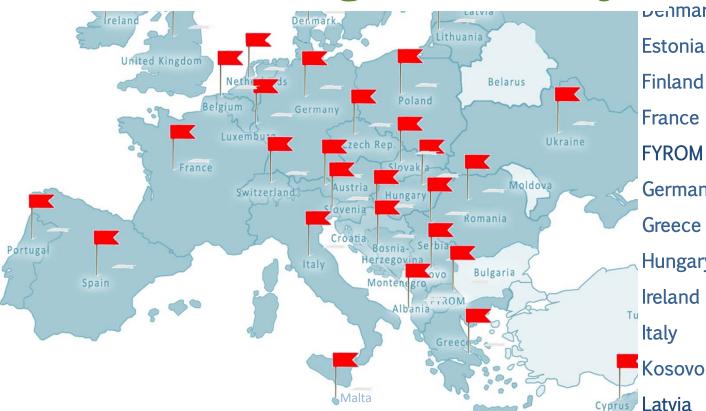
Switzerland

Ukraine

United Kingdom



orus 3/ Geological Surveys markויםע ireland 4



Mission

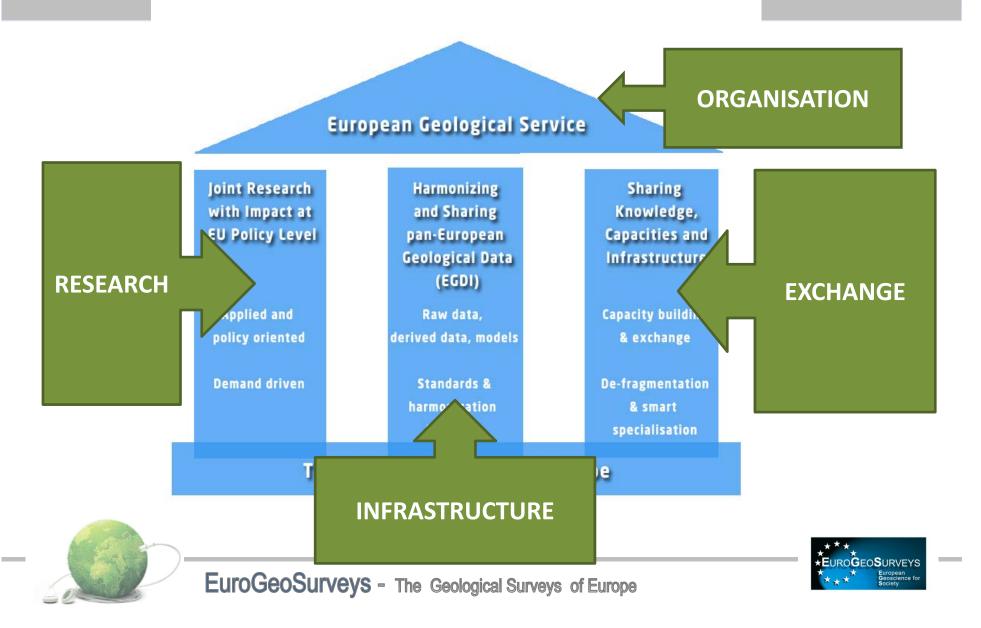
Provision of public Earth science knowledge to support:

- ✓ EU's competitiveness
- ✓ Social well-being
- ✓ Environmental management
- ✓ International commitments





EGS Strategic vision: towards a European Geological Service



EGS Structure -1

37 Geological Surveys (today)

Directors have General Meeting every 6 months

Executive Committee, Elected President, VP,

Treasurer & Committee Members

Selection Committee, Audit Committee

Each GSO- National Delegates (6 Monthly)

Thematic Expert Groups & Task Forces





EGS Structure -2

Brussels Office (Registered Organisation)
Secretary General (4 years * 2)
Secretariat, Science & Policy Officers (10),
Communications, Admin & Support



Key role in implementing strategy, communicating with EU, Essential core/hub of EGS activities









GEOCHEMISTRY



SUPERFICIAL DEPOSITS

(SOIL RESOURCES)











EARTH OBSERVATION AND GEOHAZARDS







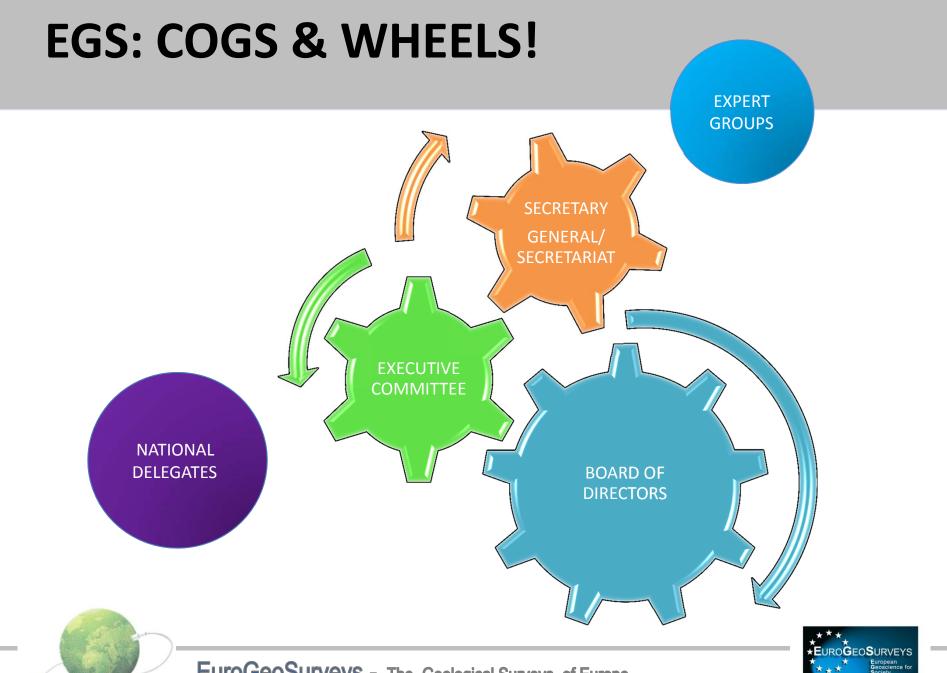




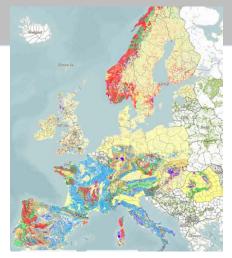








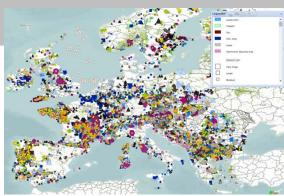
Making Europe stronger through geology



OneGeologyEurope; Surface geology of Europe in 1:1 mil. Using distributed architecture, including ISO19115 metadata and WMS/ WFS (GeoSciML) services

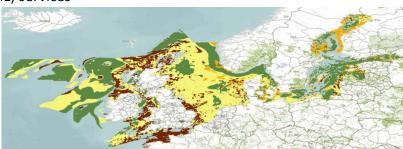


PanGeo; Ground instability assessment of major European cities using PSI data from satellite in combination with in situ data

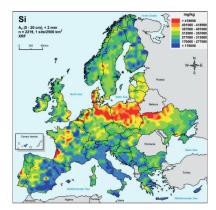


Mineral deposits; Compiled and harmonised through a number of projects (ProMine, EuroGeoSources, Minerals4EU) using distributed architectures, ISO, OGC and CGI standards

JROGEOSURVEYS



EMODnet-geology; Marine substrate map. Currently in 1: 1 million, but aiming for 1: 250 000 covering all European waters

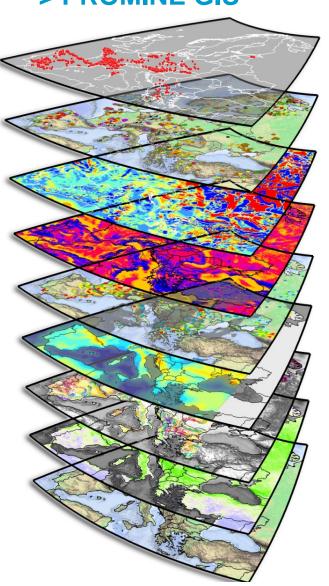


GEMAS; geochemical mapping of agricultural and grazing land soils of Europe



ProMine

> PROMINE GIS



ANTHROPOGENIC CONCENTRATIONS

MINERAL DEPOSITS

AEROMAG (CHAMP satellite data)

GRAVITY

HEAT FLOW

MOHO DEPTH

GEOLOGY

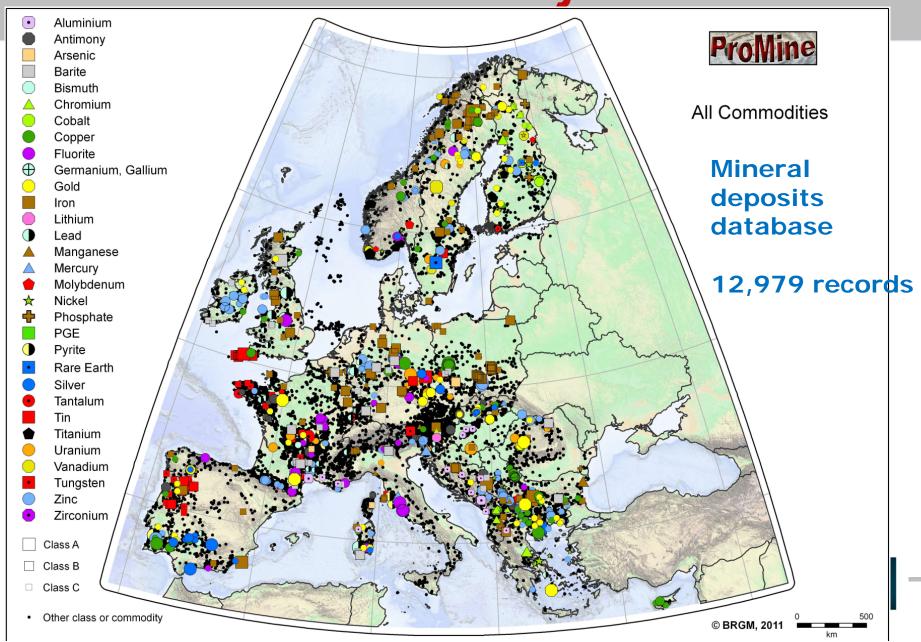
SATELLITE IMAGERY

GEOGRAPHY - DEM

- → homogeneous multi-layer information system covering the whole European territory.
- → This GIS allows, a predictive approach of EU mineral resources endowment.
- → For selected commodities, specific types of ore deposits, selected belts or selected geodynamic domains, ...



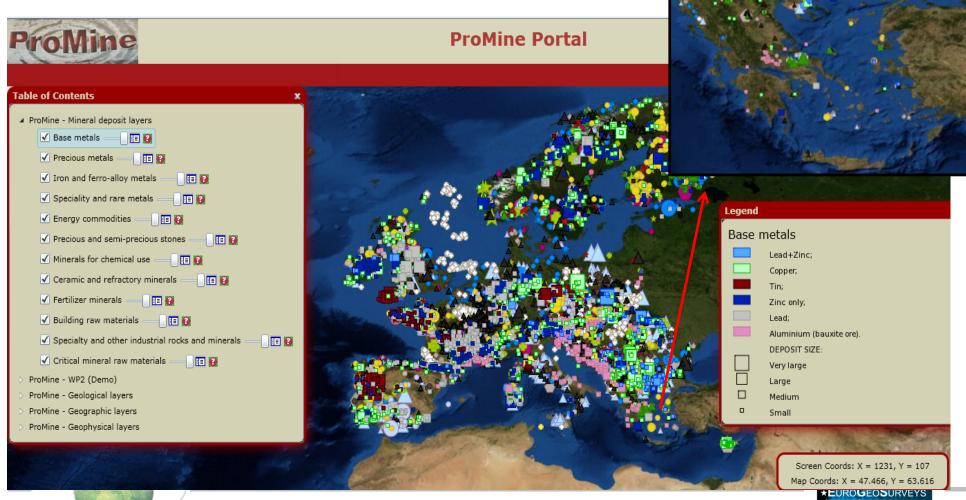
ProMine Project



PROMINE Portal

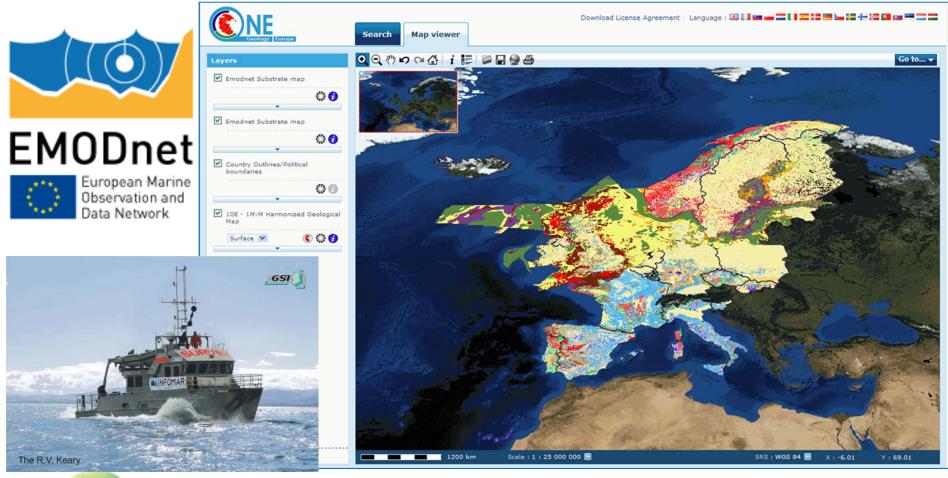
http://ptarc.gtk.fi/promine/default.aspx

(total number of 13,686 records)



EMODnet

European Marine Observation Data NETwork







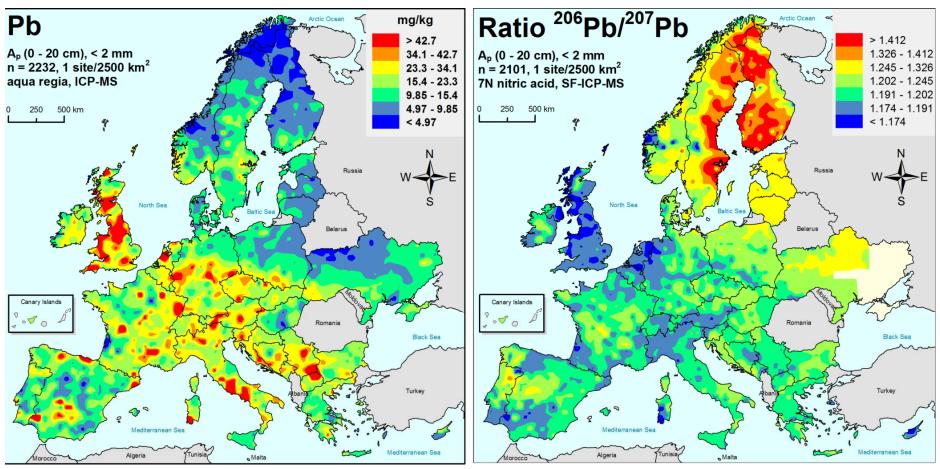
GEMAS

Geochemical Mapping of Agricultural soils

- 33 European countries sampled
- 65 organisations
- Land-use (agricultural soil, 0-20 cm; grazing land soil, 0-10 cm)
- Spatial scale (homogeneous sampling density: 1 site/2,500 km2 (grid of 50 x 50 km)
- In partnership with industry (Eurometaux)
- Harmonised Datset
- Freely available



GEMAS Geochemical Mapping of Agricultural soils

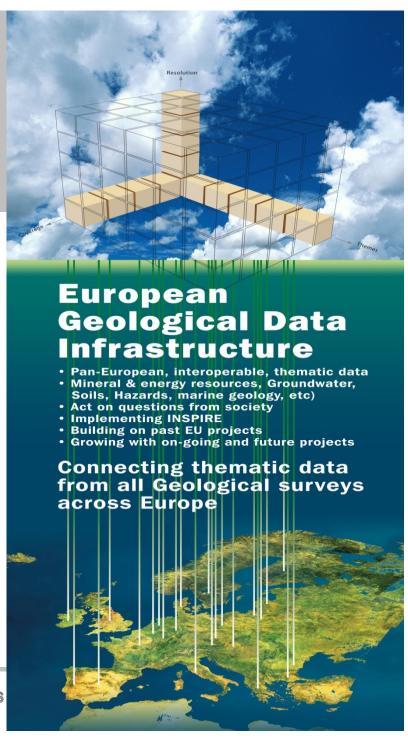


Lead isotope analyses: Agricultural soils (Ap) 0-20 cm



Towards a European Geological Data Infrastructure







EGS Future/Next Steps

ERA NET

Developing a Geoscience Research Programme for EU Groundwater, GeoEnergy & Raw Materials

Minerals/Raw Materials Support & Information Mins4EU

JRC Collaboration on Shale Gas Potential

International collaboration- PanAfGeo Growing through Projects & Strategically!





What does EGS do for



- Brussels/EU Presence
- Access to expertise & best practice Expert Groups
- Awareness of EU policy relevant to Geoscience
- Networking opportunities
- Project opportunities
- Leads to funding for staffing on projects
- Improvement to National Databases
- Communication Products- Books, brochures, videos





What could EGS do for ASGMI?

And what could ASGMI do for EGS?



That is what we are here to find out!

EGS in summary, in pictures!





THANK YOU FOR YOUR ATTENTION!



