

OneGeology-Europe

or....

**How 20 geological survey spent
€3.25 million**

Ian Jackson April 2011

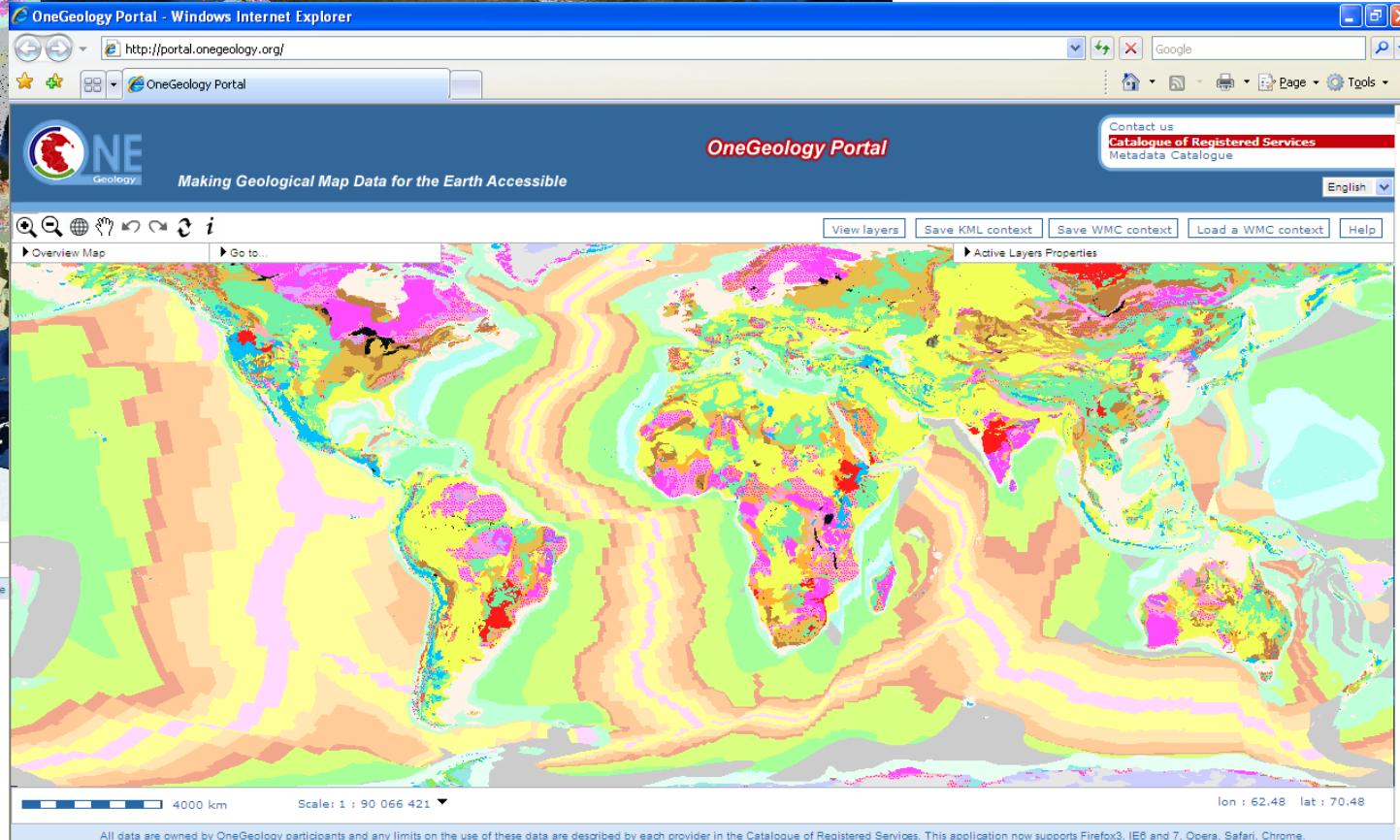
What I'd like you to take away from this talk

- OneGeology is regarded as a success
- The lesson to be learned is **KISS** – **Keep It Simple Stupid**. Resist the temptation to complicate
- When the EC invests a little money it gets a lot back
- When you invest in effective communication it pays backbig time



Making geological map data for the Earth accessible

A part of
OneGeology
global



OneGeology-Europe: an introduction

- Started 11 September 2008
- Finished October 2010
- Total budget 3.25M€
- EC contribution 2.6M€
- Funded by EC DG Information Society and Media Best Practice Networks: Geographic Information
- 10 Work Packages
- 28 Partners from 21 countries

Major objectives

- Make existing digital geological spatial data more easily discoverable, accessible and useable
- Make a contribution to the progress of INSPIRE: i.e. develop systems and protocols to better enable the discovery, viewing, downloading and sharing of geological data
- Enable the Groundwater and Soils directives, GMES, GEOSS and SEIS to deliver
- Demonstrate best practice examples of the delivery and application of geological spatial data
- Improve contribution of geological surveys across Europe to INSPIRE by spreading and sharing best practice



Making geological map data for the Earth accessible

Project team



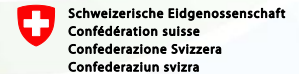
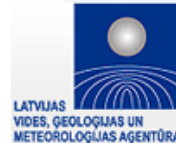
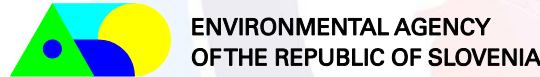
cenia



The Geological Surveys of Europe



Geoscience for a sustainable Earth
brgm



Federal Office of Topography swisstopo

Swiss Geological Survey



Search Map viewer

Layers

Country Outlines/Political boundaries



1GE - 1M:1M Harmonized Geological Map

Surface 

Move Up | Move Down

Modify Opacity



Lithology 

Remove Layer

 View metadata

 Display legend

 Download data

 Create a custom map

Area Displayed

 Selected area informations

 Legend and Statistics

 Download data


Remove all layers



Go to... 



1200 km

Scale : 1 : 25 000 000 

SRS : WGS 84 

X : 5.53

Y : 53.65

Results and outcomes

- Interoperable geology spatial dataset at 1:1 million scale available from distributed data from 20 EU nations – *and sustainable*
- State-of-the-art multilingual web map portal
- Major multinational deployment of geoscience specifications & Open Geospatial Consortium standards to view and download data
- Legal barriers to data access addressed - single harmonised licence now used by all data providers allowing free access and harmonised Code of Practice produced

Results and outcomes

- Multilingual discovery metadata catalogue developed
- Acceleration of development and deployment of an international interchange standard for geology, GeoSciML
- Significant progress with the harmonisation of geoscientific language in Europe and globally
- Successful pilots for high resolution/applied data
- Contribution to implementation of INSPIRE (metadata, data specifications, services, data sharing, monitoring)

Sustaining the services

- 20 national geological surveys have agreed to keep serving their data ✓
- EuroGeoSurveys has agreed to maintain the portal ✓

Role of European geological surveys next?

- **INSPIRE Annex II Geology Theme WG using OneGeology-Europe work extensively**
- **Not only geology ... also natural risks, mineral resources, groundwater**
- **Infrastructure ready to be used for testing and integrated in other domains**
- Extend the membership to other European nations
- improving data – its resolution (1:250k-1:50k) and quality and harmonisation
- Develop pan-European derived datasets (radon, flooding, ground stability, etc)
- Improve services, applications and functionality
- Develop European schematic interoperability in 3D and 4D