

# EuroGeoSource

**EuroGeoSurveys Spatial  
Information Expert Group (SIEG)  
meeting, 22th January 2013,  
Brussels, Belgium**

**Sustainability issues EU data portals**



INSPIRE is based on a number of common principles:

1. Data should be collected only once and kept where it can be maintained most effectively.
2. It should be possible to combine seamless spatial information from different sources across Europe and share it with many users and applications.
3. It should be possible for information collected at one level/scale to be shared with all levels/scales; detailed for thorough investigations, general for strategic purposes.
4. Geographic information needed for good governance at all levels should be readily and transparently available.
5. Easy to find what geographic information is available, how it can be used to meet a particular need, and under which conditions it can be acquired and used.

Meaning: INSPIRE is on creating access to harmonised data within the EU. It is not on creating portals that uses these data.

(The INSPIRE website has a 'portal' on data, but that only shows metadata, and has no functionality with regards to using the data)

### Steps to create 'standard' INSPIRE dataset:

- Data from national database data has to be transformed to INSPIRE data model
- From this model, INSPIRE compliant webservice needs to be created
- The webservice needs to be published
- Any web client can call the webservice in order to use the data.

### Sustainability issues exist on all levels:

- The national databases
- The mapping of the data to the INSPIRE data model
- The availability of the INSPIRE compliant webservice

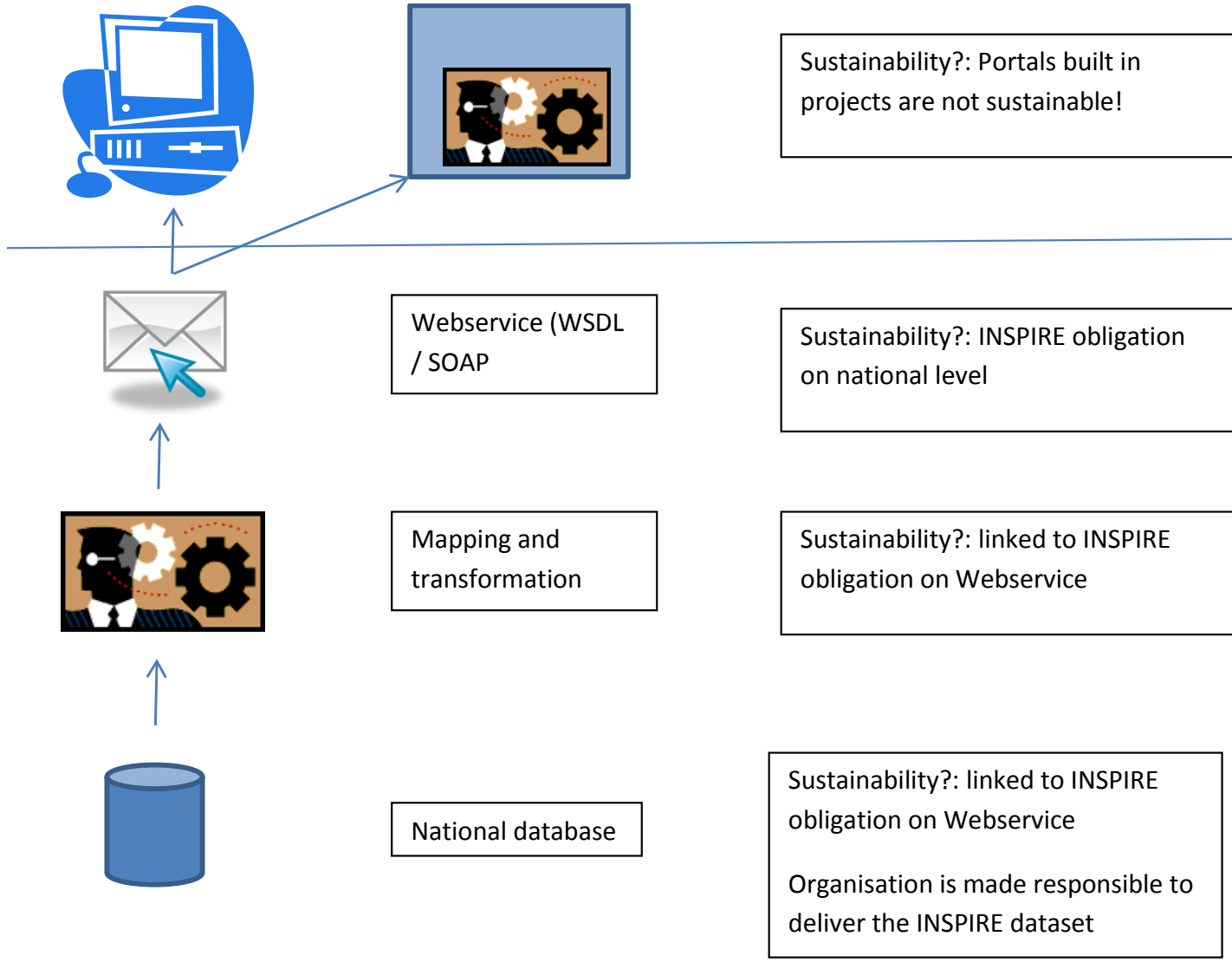
### For data portals created by EU projects:

- Extra sustainability issue for the portal itself

## The One Geology Europe project:

- Harmonised Geological map (surface geology) on a 1:1.000.000 scale
- Built a portal that uses INSPIRE compliant webservice
- Views these data on a map.
- Added functionality: query lithology and age
- Main asset:
  - All Geological Surveys involved
  - harmonisation of the geological data available at the participating countries
  - transforming that data into INSPIRE webservice.

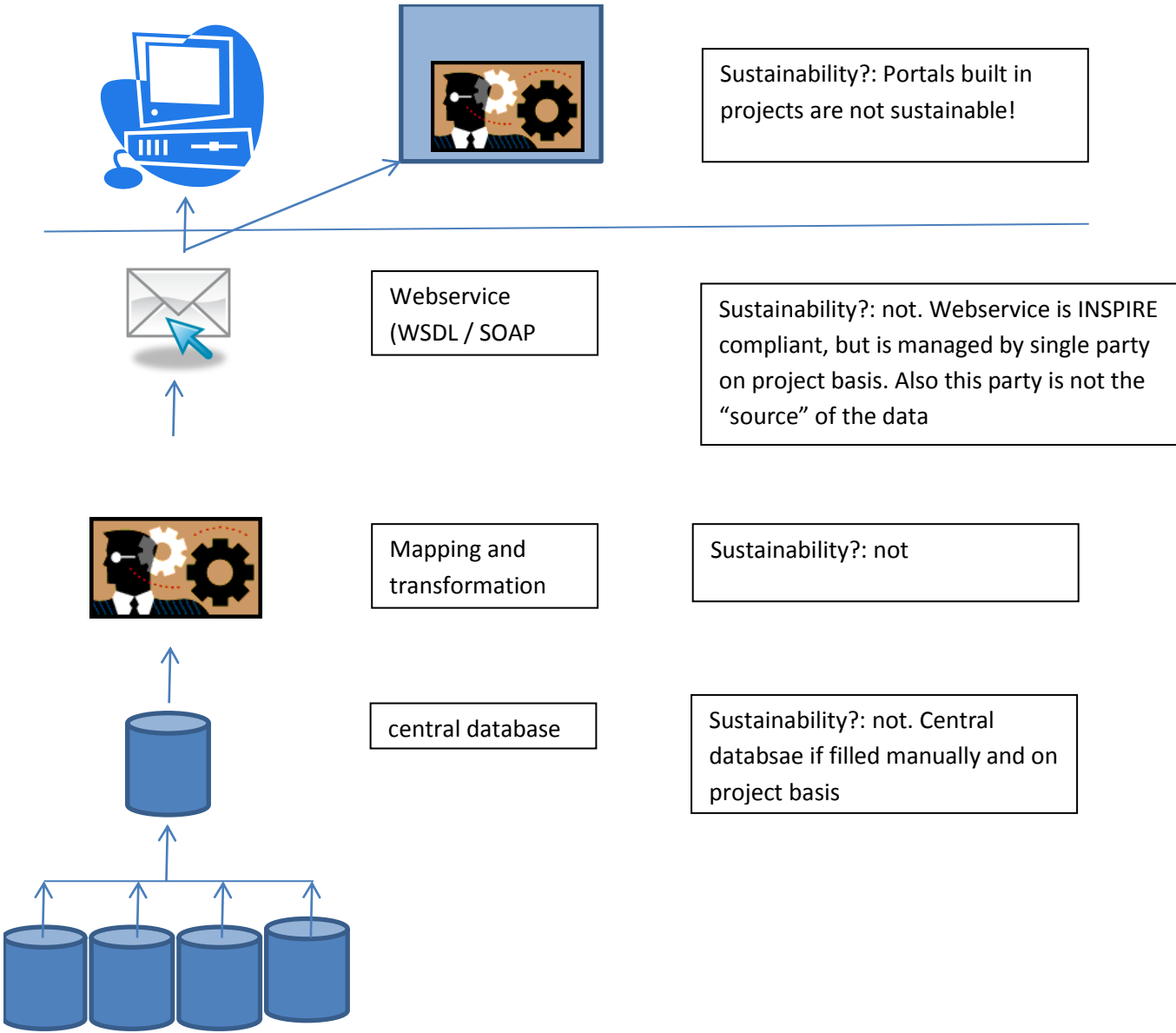
# Sustainability: 1GE



### The PROMINE project (data part):

- Created a database on (critical) minerals for Europe
  - Database is filled 'off line' (i.e. not by using webservice provided by national data providers)
- From this central database, INSPIRE compliant web services are built.
  
- Assets:
  - Pan EU

# Sustainability: Promine



## The EuroGeoSource project :

- Created a INSPIRE compliant datamodel for Energy and Mineral resources
- Consortium partners mapped their data to EGSource datamodel
- Built INSPIRE compliant webservices on EGSource data model
- Built data portal that uses these webservices
- Creates additional webservices from the portal, based on the data from national webservices

## Assets:

- Implemented in the cloud:
  - uses a cache in the cloud (i.e. filling of database is automated, using webservices)
  - Has additional services in place to enhance performance (e.g. tiling)
  - Has additional services in place to query data (indexing, summary statistics)



# Sustainability: EGSource

