

This project is financed by the European Commission Joint Research Centre.

Union Level INSPIRE Geoportal towards operational Status: "European INSPIRE GeoEntrance" **Project Presentation**

SCOPE

Design and implement a webbased geoportal and its supporting services.

- * Access states' member **Discovery & View Services**
- friendly ✤ Provide user traditional experience, beyond **SDI** portal concept
- Design a modular and scalable system based on open standards
- ***** Take into account the benefits of an Open Source solution
- Integrate registries and thesauri

UI Design and "Interactive Discovery"

Assess

The detailed requirements set by the tender are mostly functional. The challenge is to put single together the functions into an intuitive information flow and User Interface design. Requirements ☑ GP8 – Customize user experience ✓ GP9 – User participation tools
✓ AM3 – Multilingual capabilities
✓ SS1 – Search and browse

A survey of existing Geoportals has been Key result: done. Geoportals search filters, result list and map viewer be should on one and page interact in real-time with each other and the user's input.

Evaluate

End User Involvement

A system that connects 27 member states and will serve users from all over Europe has a high number of stakeholders. The project foresees to involve representative users in order to test intermediate prototypes.



The project will organize usability workshops, at least one as a physical meeting with a restricted number of users based on the first prototype and then a second "virtual workshop" that will involve a larger base of interested users yet to be identified.

Usability Workshop

A questionnaire and "test-parcours" will be prepared and at the first workshop usability experts will guide the test users through the tasks to perform in order to ensure comparability of the feedback from different users.

The "virtual workshop" will most likely not be at a fix date, but make available the second prototype to a broader selection of end-users for a period of time. Also this test round will encourage the users to follow a test-parcours, as well as to give free feedback.

- Implement the GEMET thesaurus and INSPIRE registries
- Enhance the performance of **Discovery & View Services**

MAIN CHALLENGES

- Interface with 27 member states' network services implementations
- Make accessible 200TB+ of member states' map data
- Serve potentially hundreds of thousands of users
- Provide an innovative "Interactive" **Discovery**" based on fast metadata caching
- Combine and access fast the map data of member states



The usability of the Geoportal will be one main focus of the development, in particular for the "Interactive Discovery".

Some of the feedback may not have direct influence on the first final version of the portal, but may help to drive the already foreseen extensions of the portal.

Access INSPIRE spatial datasets and services through a unique entry point, with seamless integration of member states' services, enabling multi-lingual searches, iterative refinement of result sets and cross**border combination** of datasets in **customized user maps**.



Expandable and scalable System Architecture

The system has a modular architecture in order to be able to easily expand the system with new functionality and integrate new network services.

All SW products chosen (apart from the basic pre-existing infrastructure) are free and open source. The GeoEntrance project specific code with re-use potential will be subject to a FOSS license, too, in order to foster re-use and harmonization.



FURTHER INFORMATION

Project Home www.planetek.it/eng/projects/inspire_geoportal

INSPIRE inspire.jrc.ec.europa.eu

Current JRC prototype: www.inspire-geoportal.eu

FIND THIS POSTER

Network Services Caching

To ensure a good user experience the portal uses a proxy & cache component which ensures fast delivery of maps and meta-data.





Towards the end of the project, this licensing will hopefully help build GeoEntrance a to community around these modules.

The portal and the proxies will be ready for integration of additional functions, like non-INSPIRE catalogue protocols, new network services clients, ...





The deployment load-balanced foresees HA clusters for each order to in service ensure scalability.



Download

CMS + Geoportal

Project Status

The project is in an early stage of requirements assessment. The project identified over 30 technical questions on the functional requirements, that are currently discussed with the stakeholders.

Many of these issues will be discussed together with the Initial Operating Capability Task Force (IOC-TF) right here at the conference in order to ensure a maximum of alignment with the current over-all state of INSPIRE.



Authors

Jens Stutte Planetek Italia s.r.l. stutte@planetek.it

Martin Seiler lat/lon GmbH seiler@lat-lon.de

Freddy Fierens **JRC (IES)** freddy.fierens@jrc.ec.europa.eu



In order to support the requirements assessment, a project internal issue tracker has been set-up and is currently used by the project's Management Group members from JRC, EUROSTAT and the consortium and helps to ensure a high level of interaction and traceability.

A components level architecture has been drafted and traced against the requirements. Meanwhile the consortium has refined the technical system requirements to be discussed with DIGIT, the hosting organization.

The first development iteration will take place from August to November 2011.