Enabling access to geological information in support of GMES

Fact Sheet

Project Information

**PANGEO**
Grant agreement ID: 262371

**Project website**

**Status**
Closed project

**Start date**
1 February 2011

**End date**
31 January 2014

**Funded under**
FP7-SPACE

**Overall budget**
€ 3,208,474.18

**EU contribution**
€ 2,404,925.23

**Coordinated by**
CGG SERVICES (UK) LIMITED
United Kingdom

Objective

PanGeo is a service proposed in response to FP7 GMES Downstream Call 3 (released July 2009). The objective of PanGeo is to enable free and open access to geohazard information in support of GMES. This will be achieved by the generation of a validated Geohazard Data Layer supported by a Geohazard Summary for 52 of the largest towns listed in the GMES Land Theme’s Urban Atlas involving all 27 countries of the EU. Upon user enquiry, a PanGeo web-portal will automatically integrate the geohazard data with the Urban Atlas to highlight the polygons influenced. The datasets will be made discoverable, accessible and useable via a distributed web-map system as built and demonstrated by OneGeology Europe (www.onegeology-europe.eu).

The key users of PanGeo are anticipated as:
• Local Authority planners and regulators who are concerned with managing
development risk,
- National geological surveys and geoscience institutes who are obliged to collect geohazard data for public benefit,
- Policy-makers concerned with assessing and comparing European geological risk, much as the Urban Atlas data is used to compare the landcover/use status of European towns.

Products will be made by integrating: a) interpreted InSAR terrain-motion data (derived from existing projects, e.g. ESA GSE Terrafirma plus new processing), b) geological information, and c) the landcover and landuse data contained within the Urban Atlas. The integration and interpretation, plus a validation of key features observed, will be made by the corresponding national Geological Survey for the towns concerned. It is planned to deliver the service for two Urban Atlas towns in each country of the EU (Luxembourg and Cyprus only 1), equalling fifty-two towns in total. The geological survey concerned will choose the towns for processing from the Urban Atlas list using their own knowledge as to where the information will be of most use, probably the largest towns, which, when extrapolated, would equal (13% of total EU urban population). User input to design will be facilitated by the Surveys contracted into the project and initiation of ‘Local Authority Feedback Group’.

Terrafirma has shown the potential for the self-sustainability of services providing InSAR-derived terrain-motion data, as 30% of users have gone on to procure further product on a commercial basis. In PanGeo, it is anticipated that, by adding considerably more value as described above, and promoting the clear benefits of such key environmental information, that the local authorities of neighbouring towns will begin to demand similar.

Field of science
/social sciences/sociology/governance/public services

Programme(s)

Topic(s)

Call for proposal
FP7-SPACE-2010-1

Funding Scheme
CP - Collaborative project (generic)

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EU contribution
€ 38 104.35
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<td>€ 38,865,74</td>
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<td>MAGYAR FOLDTANI ES GEOFIZIKAI INTEZET</td>
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**Poland**

**€ 22 303,31**

**Activity type**

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<td>GEOLOSKI ZAVOD SLOVENIJE</td>
<td>Slovenia</td>
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