The European Geological Data Infrastructure EGDI

J. Tulstrup, Agnès Tellez-Arenas, M. Pedersen, François Robida, B. Pjetursson, C. Delfini

The European Geological Data Infrastructure - EGDI

Tulstrup, J. [1], Tellez-Arenas, A. [2], Pedersen, M. [1], Robida, F. [2], Pjetursson, B. [1], Delfini, C. [3]

[1] GEUS (Copenhagen, Denmark) jtu@geus.dk
[2] BRGM (Orléans, France)
[3] EGS (Brussels, Belgium)

The development of a European Geological Data Infrastructure (EGDI) is a high priority of EuroGeoSurveys (the Association of the European Geological Surveys) as one of the instruments for providing a "European Geological Service" through a joint effort of the national geological surveys.

EGDI, which has been has been described in a scoping study, funded by the European Commission through the FP7 project EGDI-Scope (http://www.egdi-scope.eu/), is now becoming a reality.

The first version of a web-portal has been launched in June, giving access to a number of pan-European geological data sets created during previous data harmonization projects as well as to a very large number of national data sets from the European Geological Surveys.

This Infrastructure will enable European Geological Surveys to serve and maintain INSPIRE-compliant, interoperable geological data and information reflecting our understanding of the subsurface.

This first implementation is a basic starting point comprising a number of key datasets, but over the time EGDI will develop to become the central junction for all relevant pan-European interoperable, harmonised geological information aimed at stakeholders from policy, industry and the general public. Subsequent extensions of the EGDI will be based on results from past, current and future EU-projects. EGDI will give access to data sets produced and maintained by geological surveys and other institutions that produce similar data.

EGDI targets a wide range of public and private users who need reliable information about the subsurface at a European scale to address the major social and economic challenges that Europe is facing, such as reliable water, energy and mineral resources supply, mitigation of natural hazards, etc.

EGDI will also be the gateway to provide geological data to EPOS (European Plate Observing System), thereby contributing to reinforcement of geoscientific knowledge for solid earth science research.