



GeORG on the WWW

Informations, reports and documentations concerning the project
<http://www.geopotenziale.org>
 or
<http://www.geopotenziale.eu>



Internet portal GeORG

Research of geological data
 Preview of geological maps
 Web services



Map viewer GeORG

Application of maps in the WWW
 Customer-oriented compilation of geological data



Print products

Reports
 Maps
 Geological sections
 Publications

Contact

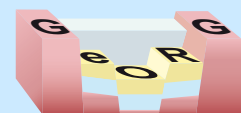
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Géosciences pour une Terre durable
brgm

Bureau de Recherches
 Géologiques et Minières
 (BRGM)
 France



Landesamt
 für Geologie und Bergbau Rheinland-Pfalz

Landesamt für Geologie
 und Bergbau (LGB)
 Rheinland-Pfalz



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Schweizerische Eidgenossenschaft
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 Confederazione Svizzera
 Confederaziun svizra



Kommission Klimaschutz
 der Oberrheinkonferenz
 Frankreich, Schweiz, Deutschland



Région Alsace



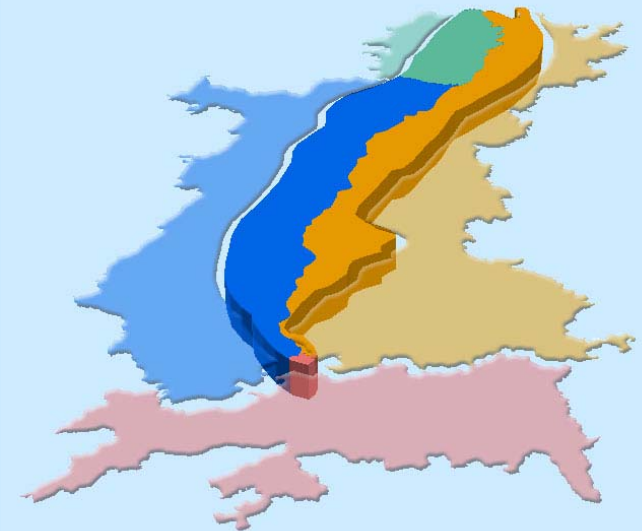
ADEME



Conseil Général
 du Haut-Rhin (CG68)



Conseil Général
 du Bas-Rhin (CG67)



Geopotentials
 of the deep
 Upper Rhine Graben



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 EFRE European Regional Development Fund

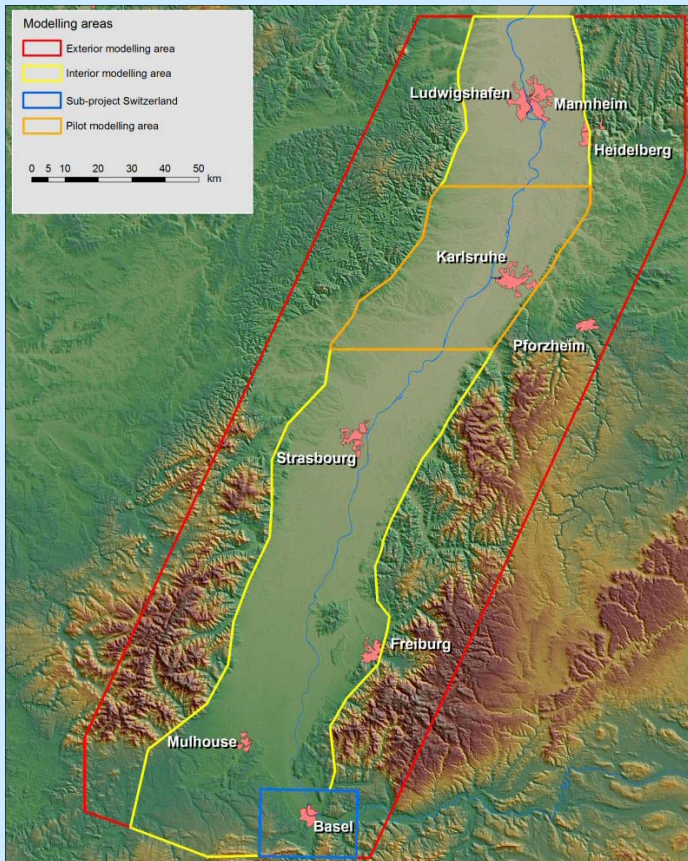


Transcending borders with every project

GeORG explores the deep geological subsurface in the Upper Rhine Graben

The ongoing discussion on climate change and multiple efforts of a sustainable use of natural resources has led to increasing interest of the public of the geological use of the Upper Rhine Graben. The geopotentials in the Upper Rhine Graben include deep geothermal energy production, a possible CO₂ sequestration or compressed air storage and the use of the deep aquifers as mineral or thermal water.

GeORG (Geopotenziale des tieferen Untergrundes im Oberrhein-graben) is a project of the European Union which is financed since October 2008 in the programme INTERREG IV A Upper Rhine. GeORG provides harmonized compiled basic geological information from the partners in France, Germany and Switzerland. This uniform presentation allows an evaluation of geopotentials of the resources in the subsurface of the Upper Rhine Graben according to actual needs and guarantees a better use in the future.



Workflow in the GeORG project

GeORG can be developed thanks to existing data. Therefore, research and harmonization of available geological data are important working steps. Due to the long research and exploration tradition in the Upper Rhine Graben the geological information dates back to multiple different sources and periods. Data exist in different shapes and dimensions of geological processing.

Apart from the technical harmonization of different data files, coordinate systems and interpretation methods, the different geological terms used across national boundaries had to be harmonized and adapted according to the actual state of art. In this way, more than 2000 drillings and a total amount of 5400 km of seismic profiles have been processed in the context of GeORG across national boundaries.

In the next step, drilling and seismic data compiled in the project are analyzed with specific software and a 3D model of the geological subsurface is developed. The modelled geological faults and boundaries are transferred in a three-dimensional solid model. Finally, hydrogeological and geothermal properties can be attributed (parameterization) and additional information on geopotentials can be derived.

