

GeoMol



Assessing subsurface potentials of the Alpine Foreland Basins for sustainable planning and use of natural resources

- AS priority area: Environment and Risk Prevention
- Duration: 01/10/2012 - 30/06/2015
- [Project webpage](#)
- [Project on the website of the Alpine Space Programme](#)

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Project summary

To meet the EU's ambitious targets for carbon emission reduction, renewable energy production must strongly be upgraded and made more efficient and capable for grid energy storage. Alpine Foreland Basins feature a unique geological inventory which can contribute substantially to tackle these challenges. Deep 'Molasse' basins at the fringe of the Alpine mountain range offer an abundant geothermal potential and storage capacity for weather-dependent wind and solar energy, as well as space for underground storage of gas or CO₂. Exploiting these natural subsurface resources (geo-potentials) will strongly compete with existing oil and gas claims and groundwater issues. Thus, the efficient use and sustainable management of geo-potentials requires a holistic and transnational approach. In order to serve transnational decision-making, GeoMol will provide consistent 3-dimensional subsurface information based on coherent evaluation methods and commonly developed criteria and guidelines.

Hypotheses

- Sensitive Alpine territory requires appropriate and diversified measures (consensus-oriented multi-stakeholder approach)
- Resource efficient economies become economically competitive and implement sustainable structures

Keywords

- renewable energies
- natural resource management
- intermodality
- territorial development

Topics

- Safe development of energy resources

Results

Results of a project can be differentiated in [outputs](#), [outcomes and impacts](#) of an intervention. [OECD Glossary of Key Terms in Evaluation and Results Based Management](#). Project outputs can generally be identified very easily. Yet, they represent only a first step towards the ultimate objective of project interventions: Initiating project-related outcomes and having true impacts on the ground.

Outputs

Outputs are an immediate deliverable of a project, which result from a development intervention. They should be finalised and publicly available by the time the project terminates. Outputs comprise tangible project results such as tools, databases, executive summaries, educational material etc.

Output	Category	Language(s)	Target group	Remark
3D Explorer	Data	EN		The 3D-Explorer you are heading for presently is the beta version of the geo data infrastructure and dissemination tool for multi-dimensional information developed within the GeoMol project, which will be extended and improved incrementally. Despite rigorous tests of this version you might encounter some bugs and malfunctions or incompatibilities with your IT environment.

Outcomes and Impacts

Outcomes are the likely or achieved short-term and medium-term effects of an intervention's outputs, e.g. the outcome of improved, knowledge-based decision-making processes as an effect of a knowledge database (= output) established by a project. Outcomes will in most cases not materialise before project closure.

Impacts are positive and negative, primary and secondary long-term effects produced by a development intervention, directly or indirectly, intended or unintended. [OECD Glossary of Key Terms in Evaluation and Results Based Management](#)

As outcomes and impacts are difficult to differentiate, this section contains both of these types of project results.

The identification of outcomes and impacts requires a deeper insight into the respective project e.g. through project participants or direct interviews with project representatives. Outcomes and impacts are usually not solely influenced by projects, but are a complex combination of project results on the one hand and framework conditions on the other. Unlike project outputs, outcomes and results cannot be described in a standardised way. Therefore, they are listed as free text:

<to be filled in>

Accessibility of project results

- [GeoMol outputs on the official website of the project](#)
- [GeoMol outputs on the website of the Alpine Space Programme](#)

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