

NAGRA Experiments

Grimsel / Mont Terri, Switzerland (2021 - 2040)



Monitoring Data Platform for Nuclear Experiments

Object

Nagra experiments at Grimsel test site and Mont Terri rock laboratory: Data platform **HotBENT**, **GAST** and **FE**

Description

Nagra experiments are research projects conducted by Nagra, the Swiss National Cooperative for the Disposal of Radioactive Waste, to develop a deep geological repository for safely disposing of radioactive waste. Experts worldwide agree that a deep geological repository presents the safest solution. Switzerland has anchored this solution in its legislation. The Amberg GEOvis has been chosen as central monitoring platform for several Nagra experiments.

GEOvis data platform

- Efficient supervision and administration of projects
- Overview maps and dashboards with 24/7 access
- Import, process, visualize and export measurement data
- Interactive maps and graphics,
- Individual measurement reports and exports
- Integrated alarm functions
- RestAPI interface (e.g. to connect 3rd party platforms)

Experiments

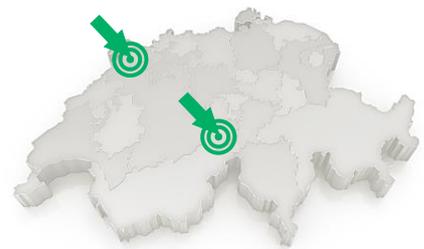
- **HotBENT** (Grimsel test site):
Approx. 45'000 sensors (fiber optics, geoelectric, temperature, humidity, displacement, gas, pore water pressure, etc)
- **GAST** (Grimsel Test site):
Approx. 500 sensors (geophone, pore water pressure, temperature, humidity, pressure, electrical conductivity, etc.)
- **FE** (Mont Terri rock laboratory):
Approx. 200'000 sensors (geophone, pore water pressure, temperature, humidity, pressure, electrical resistance, etc.)

Customer benefits

- Powerful and professional solution for monitoring applications
- All monitoring data at a glance
- Specific features for experiments and research
- Open RestAPI Interface
- Customer specific developments by Amberg Infra 7D

Client
Nagra

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HotBENT experiment on data platform GEOvis



Customized visualization and reports



Project overview - status dashboards