**OVERVIEW | OBJECTIVES**

**Geology** is not just studying the rocks under our feet, it also helps understand the planet we live on, interactions with elements, availability of natural resources, energy, the occurrence of natural phenomenon, the prevention of geohazards, the protection of environment, climate changes etc., all major issues of sustainable development our modern societies have to tackle in a fast changing world.

![Image](image1)

![Image](image2)

Scientific knowledge on geology is in constant evolution thanks to new standards, technologies and tools on data discovery, collection and dissemination. Access to shared reference datasets on geological maps, boreholes, 3D/4D Models, mineral resources, geohazards, ground water, etc. is crucial for research communities, states, investors, private companies, and the civil society to take informed decisions. The objectives of global organisations (GEOSS, OGC, IUGS, etc.) reflect this interest and concern.

![Image](image3)

Stepping up from ongoing initiatives (OneGeology, EGDI, INSPIRE, etc.), **Geological Information and Modeling** Thematic Core Service (TCS) is responsible for building up access to geological multi-scale data assets available from the European Geological Surveys and academic partners, providing a number of services easily accessible through the EPOS infrastructure and multidisciplinary research platform.
SERVICES

- at European level
- allowing discovery of core geological features
- according to international interoperability standards

Discovery service architecture available September 2017

USE CASE

A progressive approach of core geological feature discovery, view, download, enabling access to deeper geological information at level 4.

e.g. Boreholes:
- discover national Borehole datasets
- visualize and query the EU Borehole Index
- from there, access to more detailed information available at data provider level: geophysical logs, geological description, groundwater level, geotechnical information, etc.

CONTACT

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