EUROPEANPLATEOBSERVINGSYSTEM

GEOLOGICAL INFORMATION AND MODELING

*A comprehensive understanding of the Earth's composition and its **geological processes** is needed to ensure the sustainability of georesources and of the environment. The ever-evolving field of geology is one of the main pillars to fully comprehend the mechanisms and dynamics of the solid Earth.*

The **GEOLOGICAL INFORMATION AND MODELING TCS** develops and consolidates the information and data infrastructures produced by the geological international community.
By providing virtual access to geological data, maps, and models, the GEOLOGICAL INFORMATION AND MODELING TCS allows users to retrieve consolidated information produced by research facilities, and share and publish their own data and content on the EPOS' ICS platform.

SERVICES

- 2 COMMUNITY PORTALS (OneGeology, EGDI - European Geological Data Infrastructure);
- 8 DDSS (Data, Data Products, Software and Services) Boreholes, Geological Maps, Mineral Resources Occurrences and 3D Model Metadata.

https://www.epos-eu.org/tcs/geological-information-and-modeling

EPOS
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GEOLOGICAL INFORMATION AND MODELING

Present-day societal challenges revolve around the monitoring of geo-hazards and the management of georesources. An integrated research infrastructure, that mirrors the complexity of the solid Earth's processes, is crucial to help societies address those challenges and secure a sustainable future for the planet. Inside the EPOS infrastructure, members of the geological community will be able to complement their geological data with all solid Earth data and knowledge accessible in EPOS.

EPOS, the EUROPEAN PLATE OBSERVING SYSTEM, is a multidisciplinary, distributed research infrastructure that facilitates the integrated use of data, data products, and facilities from the solid Earth science community in Europe. EPOS ensures **the long-term** access to solid Earth **science data** and **services**, with the goal of answering some of the most pressing societal questions **concerning geo-hazards** and those **geodynamic** phenomena relevant to the **environment** and **human welfare**.