



**GEOLOGICAL  
INFORMATION  
AND MODELING**

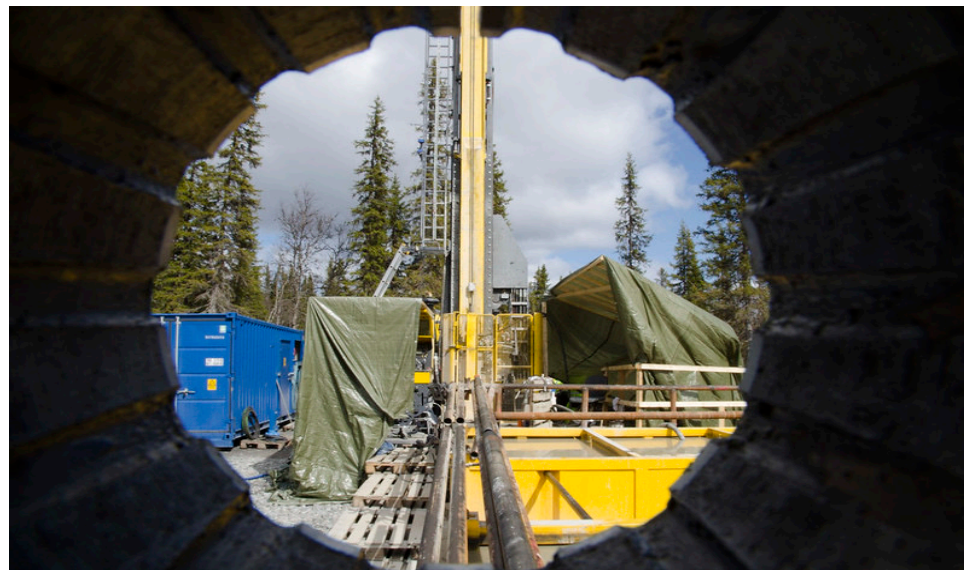
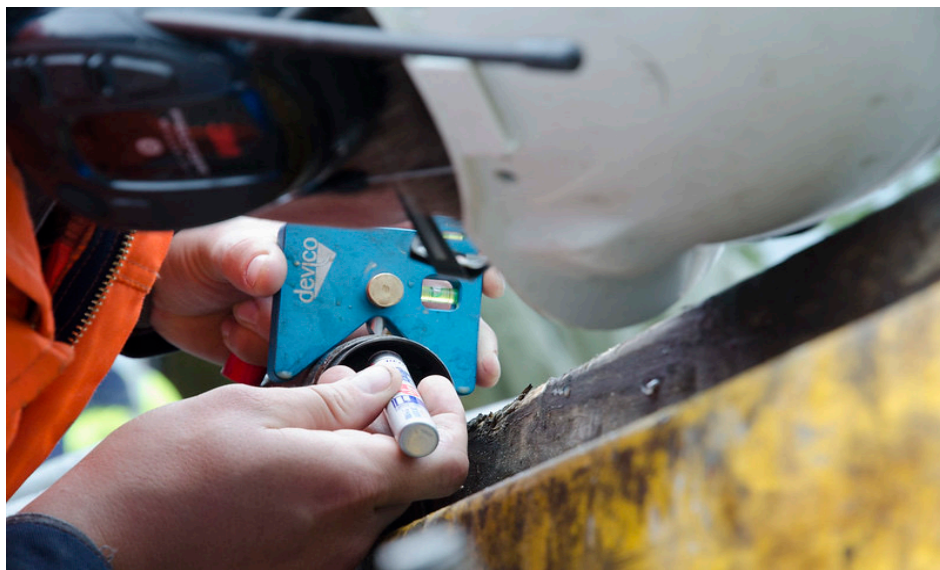
# **GEOLOGICAL INFORMATION AND MODELING**

**Thematic Core Service**





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AND MODELING



**EPOS**  
EUROPEAN PLATE OBSERVING SYSTEM



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# Overview

- **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.**





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# Geological Information and Modeling TCS

The Geological Information And Modeling (GIM) Thematic Core Service (TCS):

- **develops and consolidates information and data infrastructures** produced by the geological international community;
- provides **virtual access to geological data, maps, and models**;
- allows users to **retrieve consolidated information** produced by research facilities, and **share and publish their data and content** on the EPOS' ICS platform.



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# Services

## 2 Community Portals

- One Geology
- EGDI (European Geological Data Infrastructure)

## 8 DDSS (Data, Data Products, Software and Services)

*divided into 4 categories*

- Boreholes
- Geological Maps
- Mineral Resources Occurrences
- 3D Model Metadata



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# Geological Information and Modeling TCS

- Present-day societal challenges revolve around the **monitoring of geohazards and the management of georesources**.
- An **integrated research infrastructure** 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**.





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# Contacts

## **EPOS TCS Geological Information and Modeling mini-website**

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

## **EPOS website**

<https://www.epos-eu.org/>

## **Email address**

info@epos-eu.org

