EPOS FACTS

- 🌐 **26** Countries involved in the integration plan
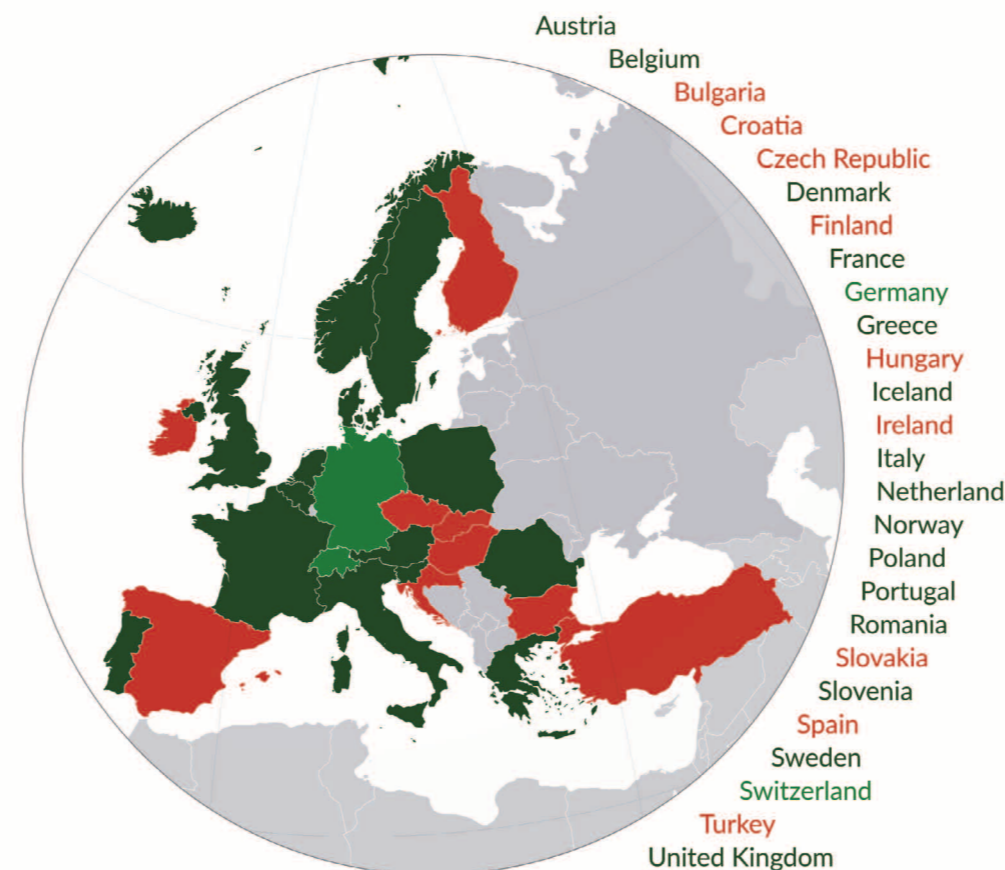
- 🌍 **17** Countries in EPOS ERIC

- 🏛 **143** Research organizations formally involved

- 💽 **250** Integrated data and services

EPOS is FAIR

- **Open access** to data and high-level services from research infrastructures for cross-disciplinary research

- **Services for data access** e.g. technologies needed to provide access to data, including AAAI technologies and web services

- **FAIR metadata** e.g. creation or reuse of metadata standards and vocabularies for describing datasets, services and other resources

- **FAIR data** e.g. harmonization of data made available under clear usage conditions licenses

Austria
Belgium
Bulgaria
Croatia
Czech Republic
Denmark
Finland
France
Germany
Greece
Hungary
Iceland
Ireland
Italy
Netherland
Norway
Poland
Portugal
Romania
Slovakia
Slovenia
Spain
Sweden
Switzerland
Turkey
United Kingdom

■ Members ■ Observers ■ Included in the integration plan

EPOS
the **pan-European distributed research infrastructure** for **SOLID EARTH SCIENCE** enabling **EXCELLENT SCIENCE** to **understand planet Earth dynamics** for **a safe** and **sustainable society**

www.epos-eu.org

EPOS
EUROPEANPLATEOBSERVINGSYSTEM

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How **EPOS** works

EPOS, the **European Plate Observing System**, is the **only research infrastructure** for **solid Earth science** in **Europe**. EPOS promotes **open science** and it is committed to enable excellent science and innovation. Born in 2007 with the aim of developing a long-term plan for sharing and harmonizing scientific data and products, it integrates about 150 national research organizations into a single distributed infrastructure.

EPOS DELIVERY FRAMEWORK

EPOS ERIC
Executive Coordination Office | ECO

NATIONAL RESEARCH INFRASTRUCTURES (NRI) & DATA CENTERS

THEMATIC CORE SERVICES (TCS)

INTEROPERABILITY

INTEGRATED CORE SERVICES (ICS)
INTEGRATED CORE SERVICES INTEGRATION - CENTRAL HUB (ICS-C)

DATA PORTAL

DATA / PRODUCTS / SOFTWARE / SERVICES

INTEGRATED CORE SERVICES DISTRIBUTED (ICS-D)

USERS
SCIENTISTS
IT EXPERTS
GOVERNMENTS
PRIVATE SECTOR
SOCIETY

GEOMAGNETIC OBSERVATIONS

NEAR-FAULT OBSERVATORIES

GEOLOGICAL INFORMATION AND MODELING

MULTI-SCALE LABORATORIES

VOLCANO OBSERVATIONS

SATELLITE DATA

GNSS DATA AND PRODUCTS
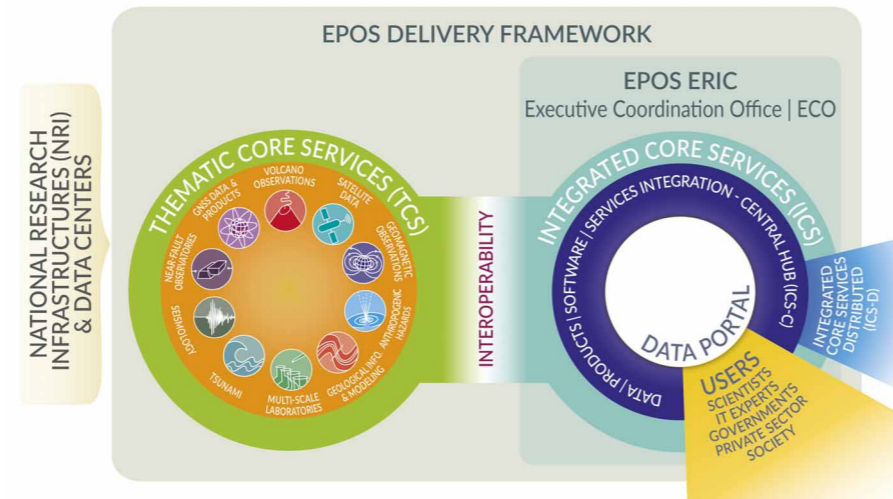
ANTHROPOGENIC HAZARDS

TSUNAMI

SEISMOLOGY

EPOS community is currently organized in **10 Thematic Core Services**, covering a great variety of solid Earth science disciplines.

Integration of the existing national and trans-national Research Infrastructures.

Interoperability of thematic services for a multidisciplinary community of users.

Progress in **science** and improvement in geo-hazard assessment, risk mitigation and sustainable management of geo-resources.

Sustainability through strategic investments in research infrastructures at national and international level.

The **EPOS** Data Portal

The **Data Portal** is the **platform** that provides an **unprecedented** amount of **high-quality** and harmonized scientific **data**, **products** and **services** for users (e.g., researchers, IT experts, institutions, decision-makers), to **foster** state-of-the-art **research** and **innovation** for a **safe** and **sustainable society**.

DATA PORTAL FACTS

~60.000 lines of source `</>` code developed

~30.000 GitLab commits every year

~14.700 known bugs fixed

~150 liters of coffee drunk every year

+12.600 unique visitors from +100 different countries

~600 scientists form the thematic communities

~100 IT experts involved in the `</>` design, development and operation