



*While politicians may be putting up borders,
scientists are trying even harder to break down national barriers.*

EPOS - European Plate Observing System

The distributed Research Infrastructure for solid Earth science

The EPOS SP Project

Lilli Freda

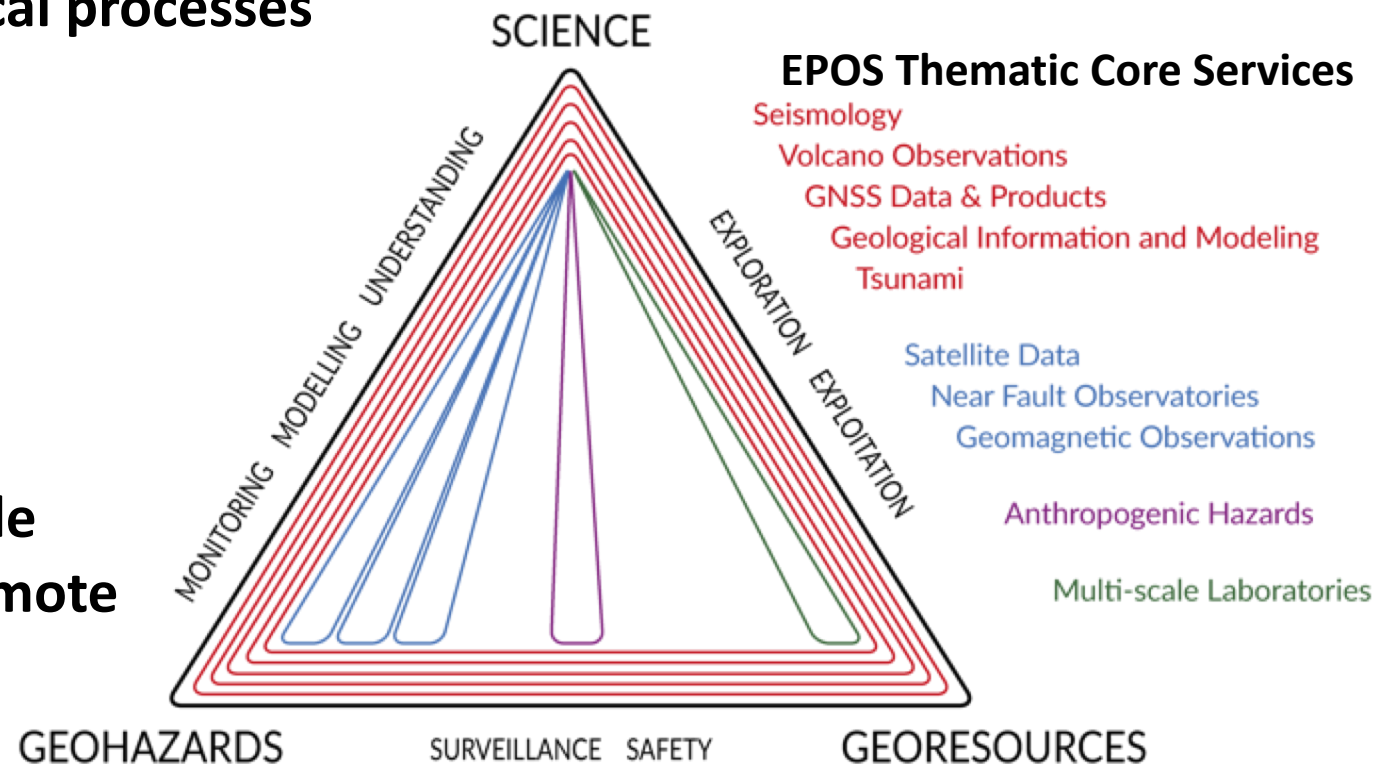
Multidisciplinary approach to solid Earth science

- Solid Earth science offers answers on how to maintain the Earth a safe and prosperous planet
- Natural processes do not respect national boundaries and scientific disciplines

An integrated, multidisciplinary research approach is needed to

- understand Earth's chemical and physical processes
- forecast natural events
- assess hazards and mitigate risks
- sustainably exploit geo-resources

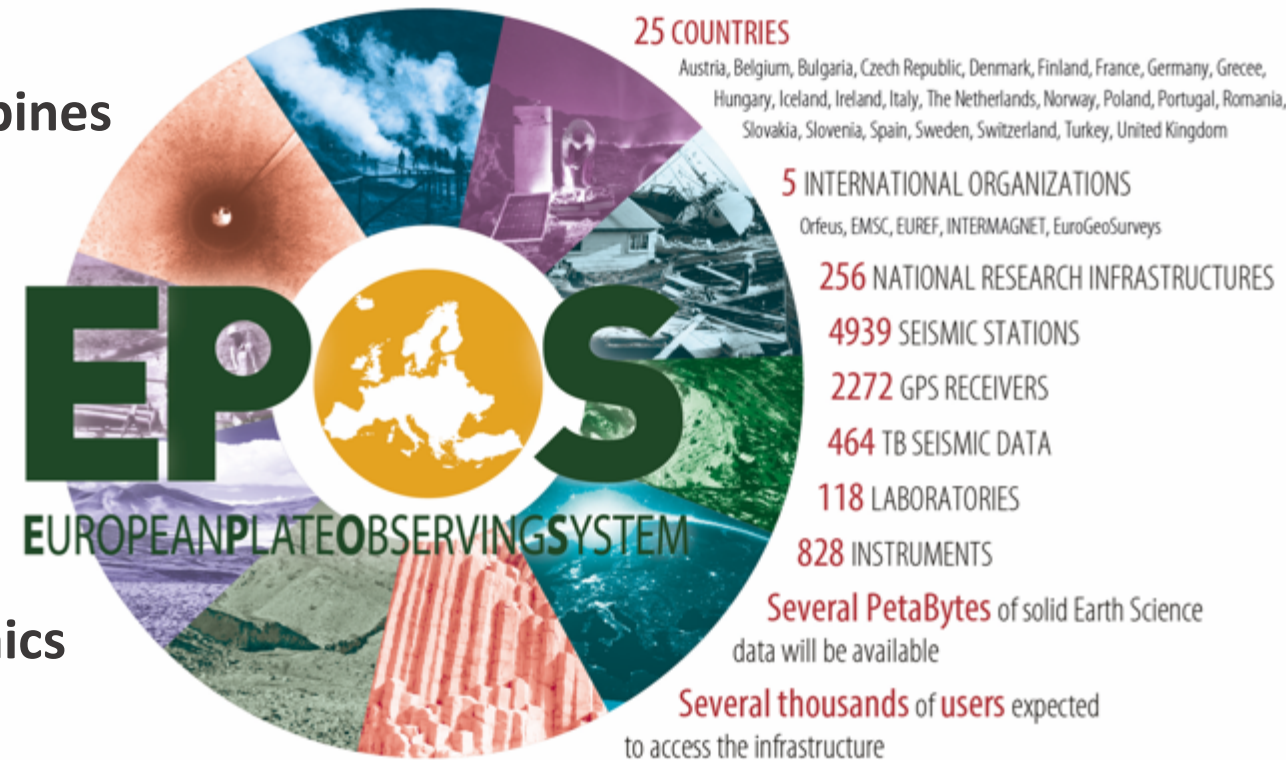
The key challenge is
to make the enormous wealth of available
solid Earth data **openly accessible** to promote
cross- and multi-disciplinary science



A unique Research Infrastructure for solid Earth science

EPOS, a single, distributed infrastructure that harmonizes and integrates multidisciplinary solid Earth data acquired through diverse scientific systems and disciplines and optimizes their open access to make a step change in developing new concepts and tools for innovative research

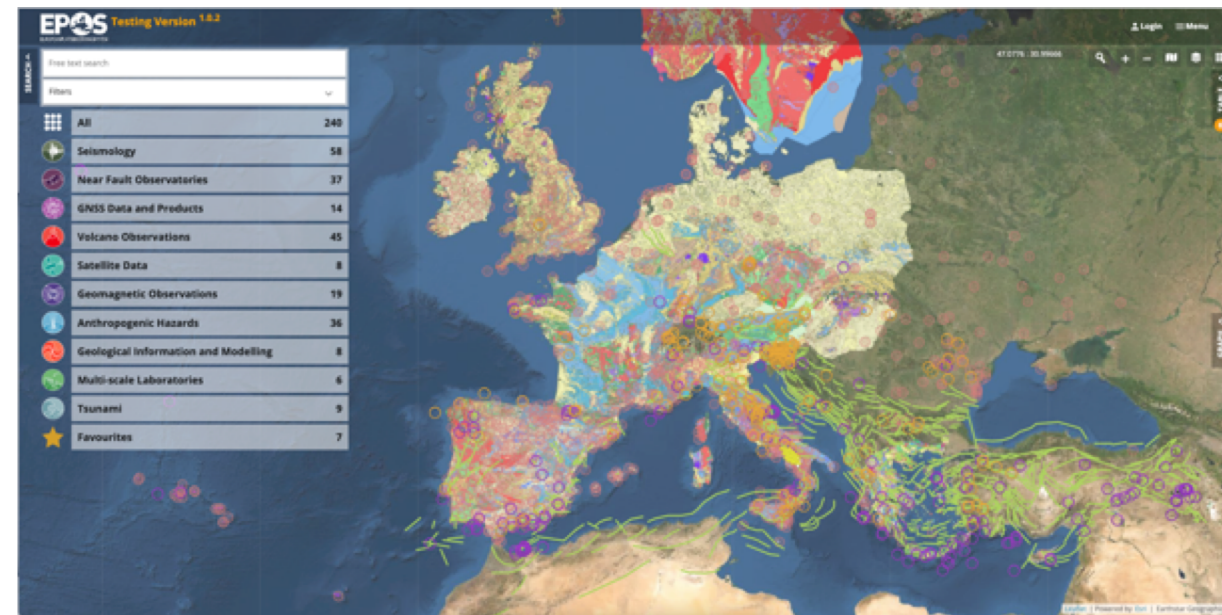
EPOS brings together European nations and combines solid Earth science infrastructures and their capital of human expertise, data, services and facilities into one integrated system for a better understanding of planet Earth dynamics





To ensure sustainable and **universal use and re-use** of multidisciplinary solid Earth science data and products fostering state-of-the-art research and innovation

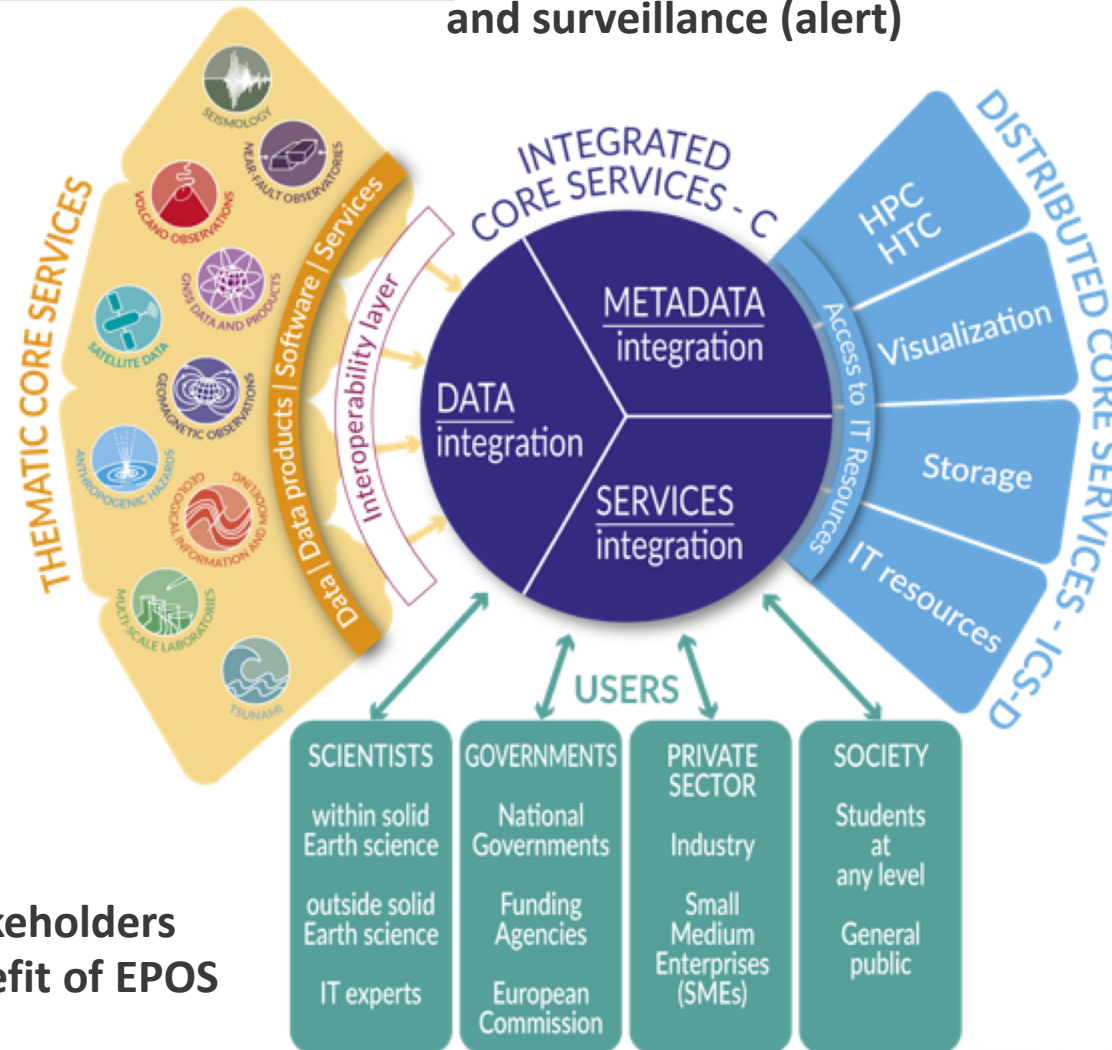
To establish a sustainable and **long-term access** to solid Earth science data and services integrating diverse European Research Infrastructures under a common federated framework



How EPOS works

NATIONAL RESEARCH INFRASTRUCTURES & DATA CENTERS

- **National RIs** generate data for science and society
- **Governments** maintain the RIs to promote understanding (science), monitoring (hazard) and surveillance (alert)



- **Integrated Core Services (ICS)** allows the access to all data, products and services made available by the NRIs through the TCS for different users and stakeholders
- **ICS** provide a new interface that by adopting data access policies aligned to Open Science principles, provides data and products in a **FAIR** form for users

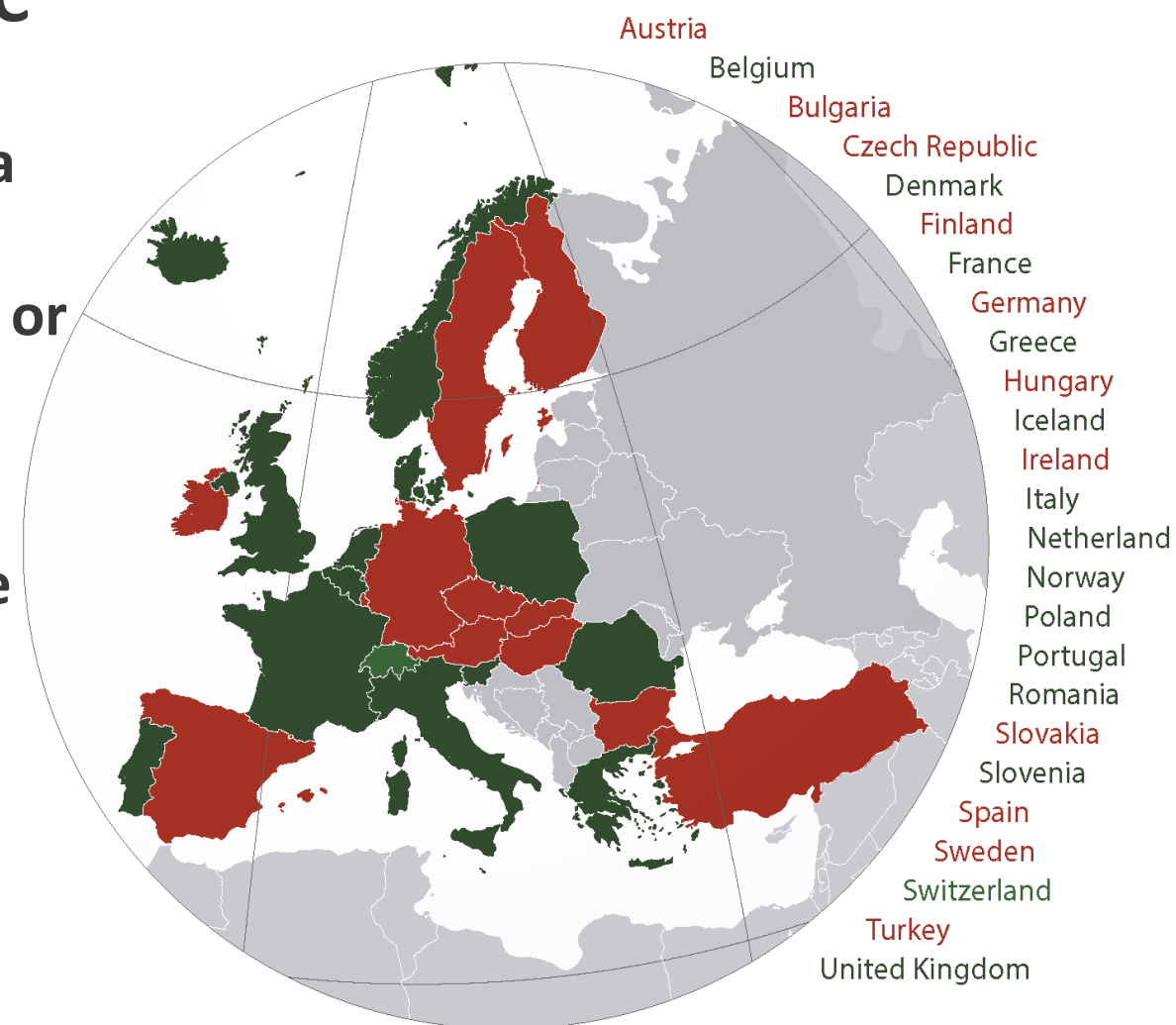
Findable
Accessible
Interoperable
Re-usable

- Different **users** and stakeholders (including Society) benefit of EPOS

Since October the 30th 2018, EPOS is a ERIC

European **R**esearch **I**nfrastructure **C**onsortium is a legal entity recognized in all EU Member States without requiring transposition into national law or any national legal instrument

The principal task of an ERIC is to establish and operate a research infrastructure



In green, countries members of the ERIC

In red, countries participating to the EPOS integration plan

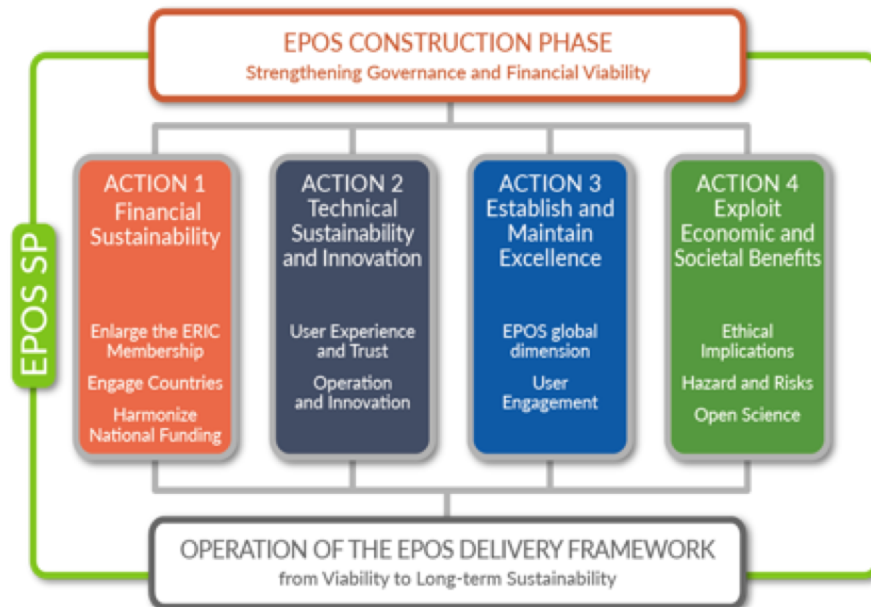
International Cooperation and Global Dimension

The EPOS SP project

The overall objective of the EPOS Sustainability Phase (EPOS SP) project is to perform activities aimed at ensuring the long-term sustainability of the EPOS Research Infrastructure

Strategic Actions

- secure governance and financial sustainability
- secure technical sustainability and develop innovation
- establish and maintain excellence
- exploit economic and societal benefits

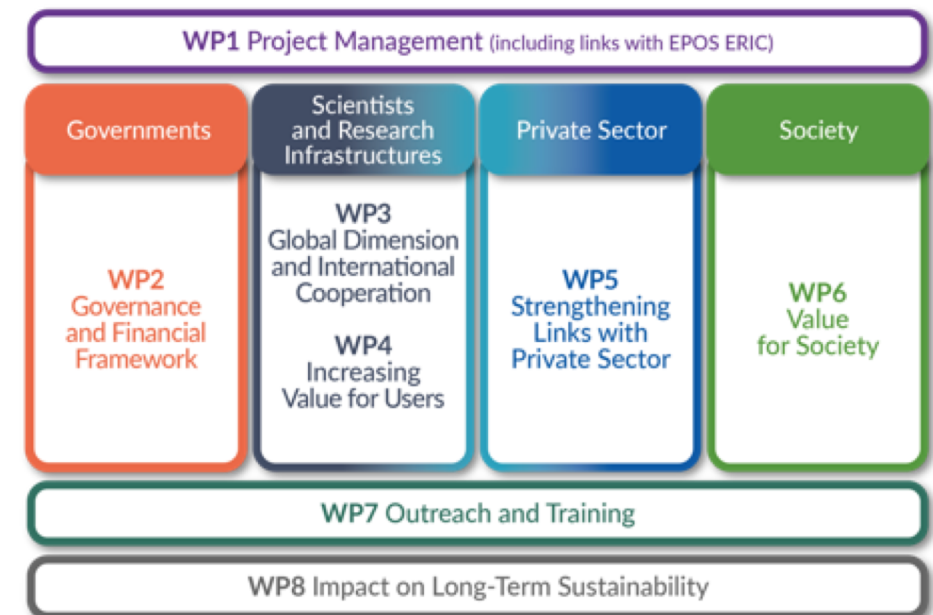


Specific Objectives

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Developing the global dimension of EPOS

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**Exploit opportunities to establish a collaborative framework
at global level
by promoting integration
through sustainable science-driven approaches**

***“By making high-quality facilities, resources and services available to everyone,
research infrastructures ensure that science is driven by excellence and
not by the research capacity of individual countries, economic sectors, or institutions”***

Rita Costa Abecasis and Barbara Pintar

Web site



www.epos-eu.org

Data Portal



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

Thank You!
Have a good conference!

Social media

