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OPEN SCIENCE IN SOLID EARTH SCIENCES - THE CONTRIBUTION OF EPOS -



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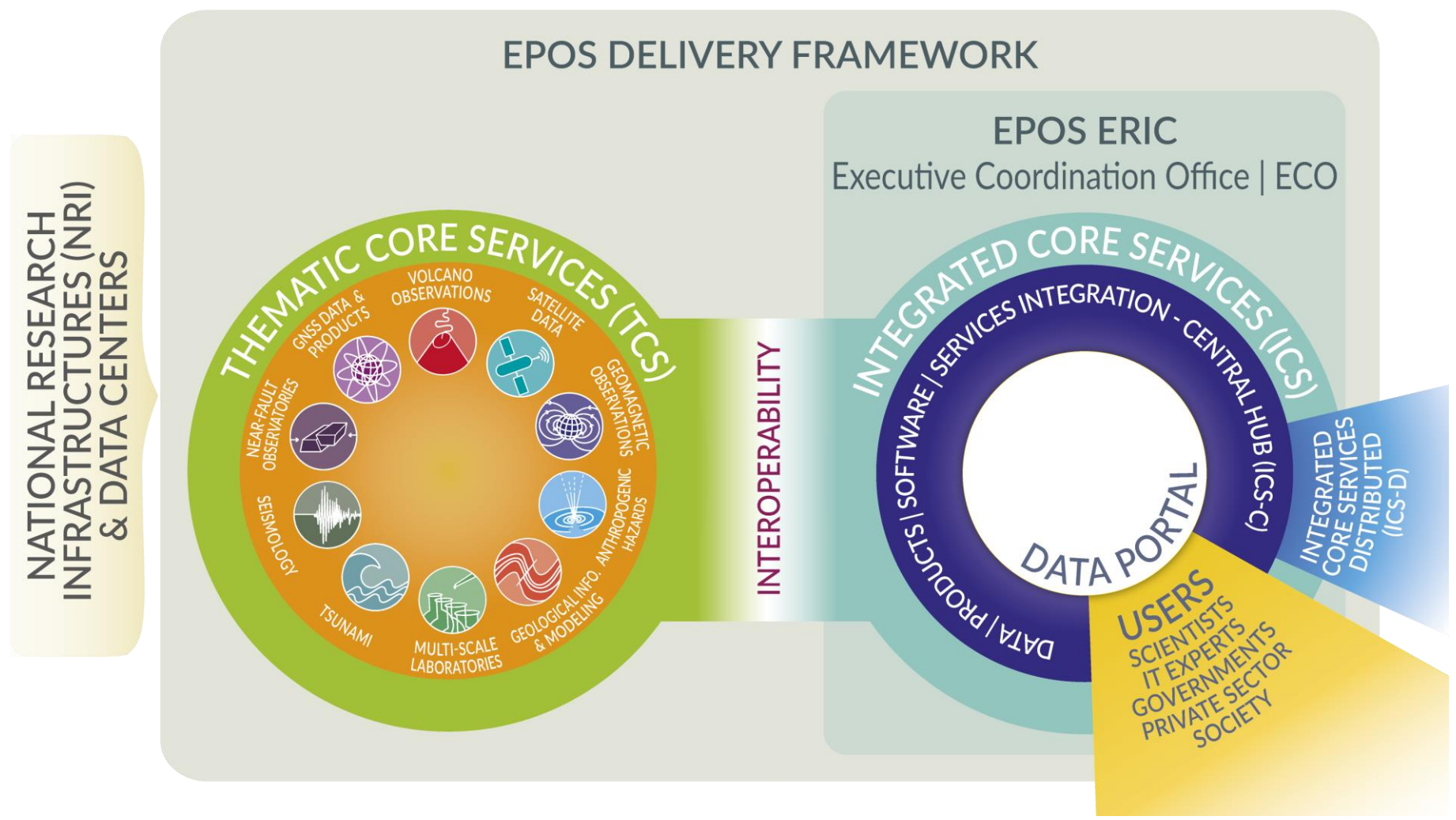


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The European Plate Observing System (EPOS) is a distributed multidisciplinary infrastructure dedicated to the integration of data, services and resources of the solid Earth science research communities in Europe



AN INFRASTRUCTURE TO OPENLY SHARE SOLID EARTH SCIENCE DATA

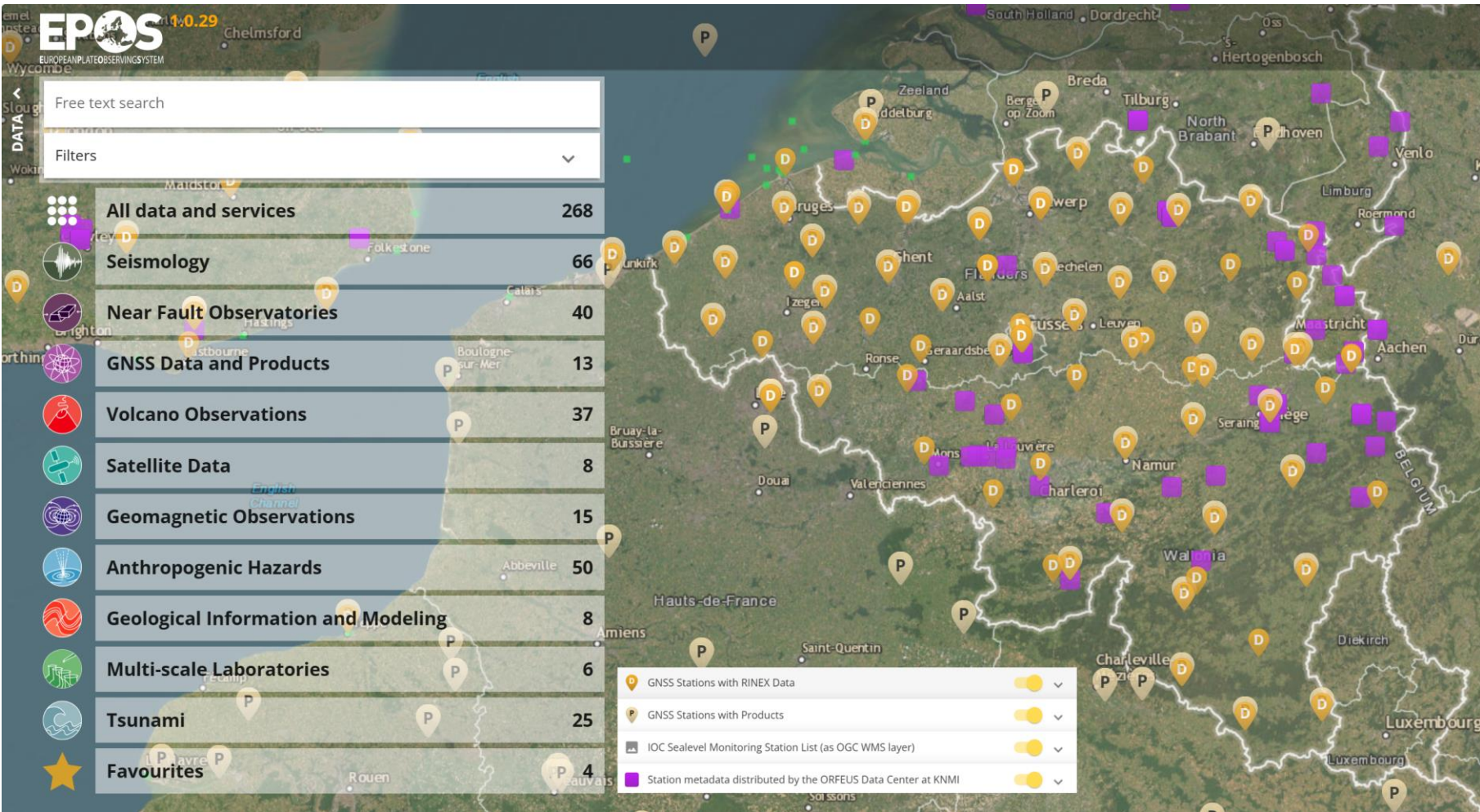
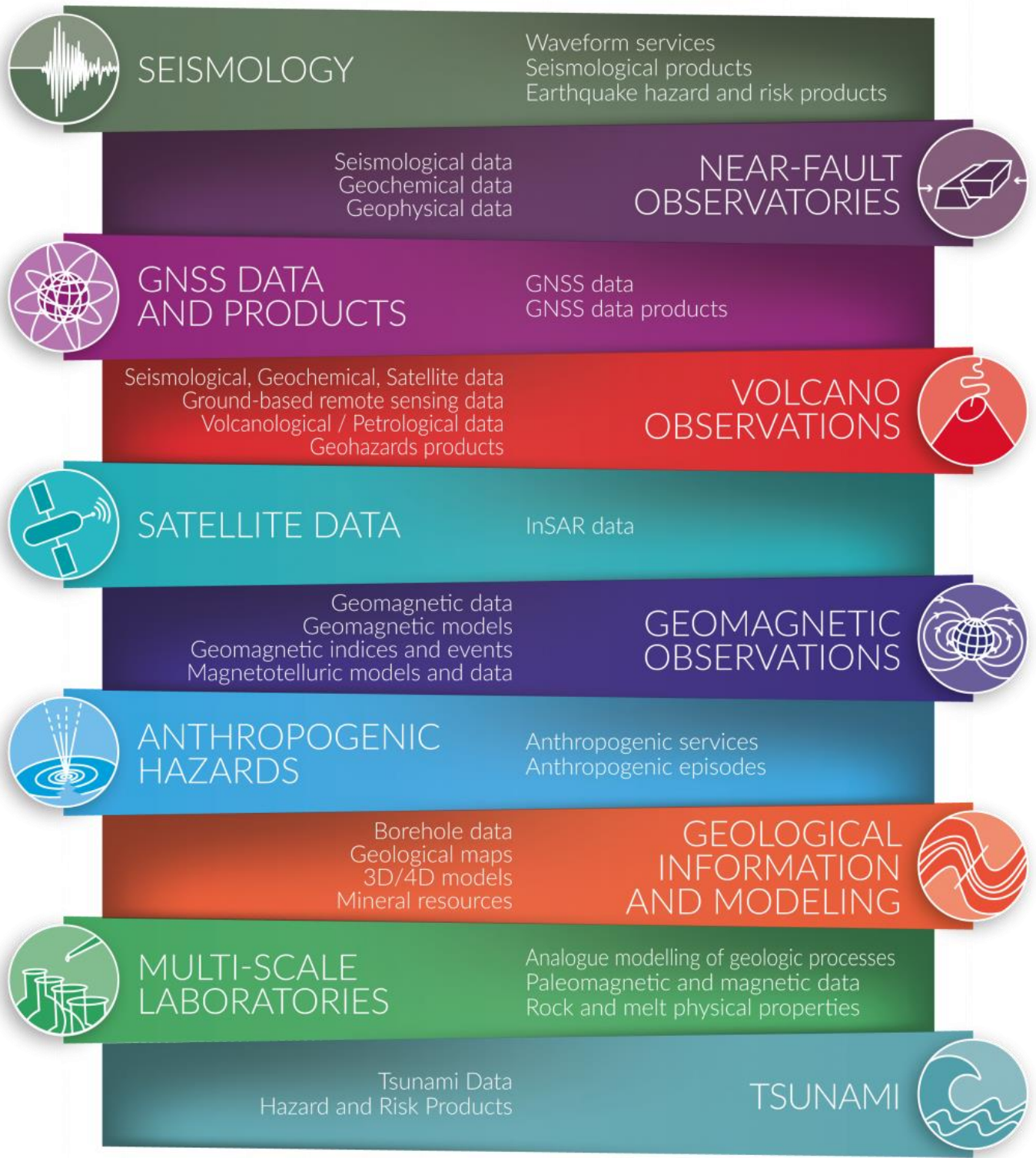
Understanding how the Earth works as a system is critically important to modern society. Volcanic eruptions, earthquakes, floods, landslides, tsunamis, weather, and global climate change are all Earth phenomena affecting society. EPOS aims to ensure a **sustainable and universal use and reuse of Earth science data and products** with the goal to facilitate the understanding of the dynamic processes of the Earth System.

THEMATIC CORE SERVICES

The backbone of EPOS are Thematic Core Services (TCS), which cover **10 domains of the solid Earth science** (seismology, GNSS, geology, tsunamis, satellite data, volcanos, multi-scale laboratories, anthropogenic hazards, near-fault observatories, geomagnetism). The TCS ensure EPOS scientific relevance as well as its adherence to the **real needs of the scientific communities** in terms of scientific data, services, and products.

EPOS-BE

Through the TCS, **Belgian research institutes and governments provide data and services to EPOS**. The Royal Observatory of Belgium provides GNSS and seismic data, and essential technical information on the measuring stations. The Flanders Marine Institute contributes by supplying metadata and real-time sea level data from the IOC-UNESCO Sea Level Station Monitoring Facility (SLSMF). All those data are then openly made available through the EPOS data portal.



THE EPOS OPEN DATA PORTAL: FAIR IN PRACTICE

The EPOS data portal is a user-oriented platform (<https://www.epos-eu.org/dataportal>) that facilitates data integration, access, use, and re-use. It puts FAIR principles into practice thanks to the adoption of a **co-development approach** and a constant **harmonization** involving scientists, developers and data providers. Currently, the EPOS data portal contains contributions from 256 research organizations across Europe.



BELGIAN
EPOS DATA
PROVIDERS:



Belgian federal
data and service
provision to EPOS
is supported by

