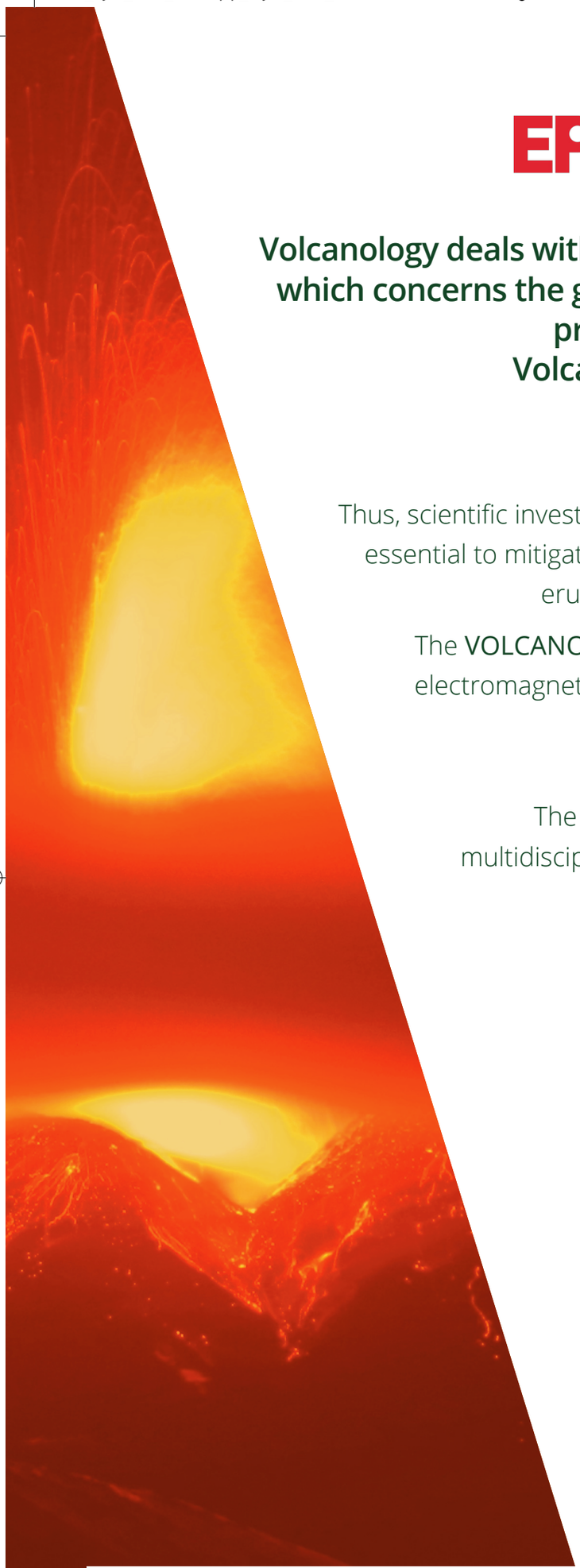


# EPOS VOLCANO OBSERVATIONS

**Volcanology deals with the study of volcanoes and volcanism, which concerns the geological, geophysical and geochemical processes characterizing volcanic activity. Volcanic activity can impact climate changes and ecosystems.**

Thus, scientific investigations and real-time monitoring of volcanoes are essential to mitigate the associated risks of volcanism and to forecast eruptions and their evolution once unrest is detected.

The **VOLCANO OBSERVATIONS TCS** integrates seismic, geodetic, electromagnetic, geochemical, and environmental data, collected by thousands of operating stations located around European volcanoes.

The VOLCANO OBSERVATIONS TCS consolidates these multidisciplinary data and offers access to a portfolio of data, products and services to improve knowledge of volcanic processes.

## Services

3 COMMUNITY PORTALS.
FUTUREVOLC project:
(Catalogue of Icelandic Volcanoes);
MEDSUV portal;
EUROVOLC project:
(European Catalogue of Volcanoes).

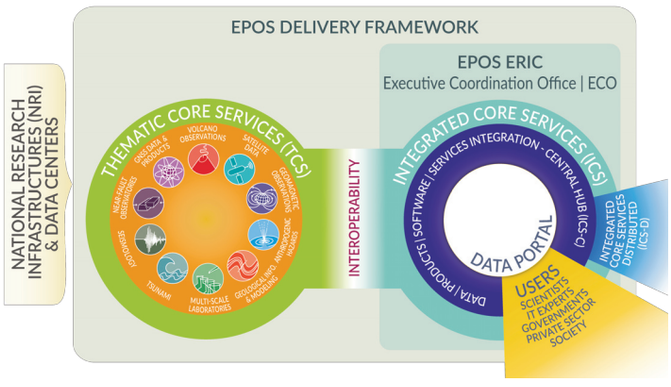
35 DDSS
(DATA, DATA PRODUCTS, SOFTWARE AND SERVICES).

www.epos-eu.org/tcs/volcano-observations

# EPOS VOLCANO OBSERVATIONS

The VOLCANO OBSERVATIONS community integrates the experience of the main European Volcano Observatories and Research Institutions, and broadens the current understanding of the physical and chemical processes of volcanoes. Society at large can benefit from the knowledge and tools to monitor volcanic activity and to assess volcanological hazard.

**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.




EPOS EUROPEAN PLATE OBSERVING SYSTEM www.epos-eu.org