



*Volcanology deals with the study of volcanoes and volcanism, which concerns the geological, geophysical and geochemical phenomena 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 risk of volcanism and 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 this multidisciplinary data and offers access to a portfolio of data, products and services to improve the knowledge of volcanic processes.

The European Catalogue of Volcanoes, developed by the EUROVOLC, is one of the projects that VOLCANO OBSERVATIONS TCS is actively involved in.



## SERVICES

- 3 COMMUNITY PORTAL (FUTUREVOLC, MED-SUV and EUROVOLC);
- 45 DDSS (Data, Data Products, Software and Services).

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**.

