



**VOLCANO  
OBSERVATIONS**

# **VOLCANO OBSERVATIONS**

**Thematic Core Service**



VOLCANO  
OBSERVATIONS





# Overview

- 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.



# Volcano Observations TCS

The Volcano Observations Thematic Core Service:

- integrates **seismic, geodetic, electromagnetic, geochemical,** and **environmental** data, collected by thousands of operating stations located around European volcanoes;
- consolidates **multidisciplinary data**, and
- offers access to a **portfolio of data, products and services** to improve the knowledge of volcanic processes.

# Services

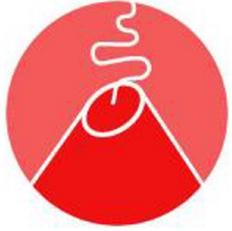
## 3 Community Portals

- FUTUREVOLC (Catalogue of Icelandic Volcanoes)
- MEDSUV portal
- EUROVOLC (European Catalogue of Volcanoes)

## 45 DDSS (Data, Data Products, Software and Services)

*divided into 7 categories:*

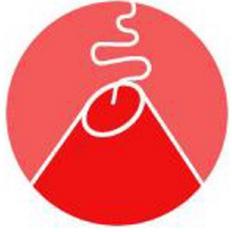
- Seismological data
- Geodetic data
- Geochemical data
- Satellite data
- Ground-based remote sensing data
- Volcanological / Petrological data
- Geohazards products



VOLCANO  
OBSERVATIONS

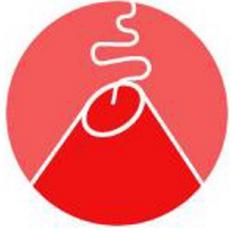
# Volcano Observations TCS

- The Volcano Observations community integrates the experience of the main European Volcano Observatories and Research Institutions.
- Volcano Observations TCS broadens the current **understanding of the physical and chemical processes of volcanoes.**
- Society can benefit from the knowledge and tools to **monitor volcanic activity and to assess volcanological hazard.**



VOLCANO  
OBSERVATIONS





VOLCANO  
OBSERVATIONS

# Contacts

## **EPOS Volcano Observations TCS mini-website**

<https://www.epos-eu.org/tcs/volcano-observations>

## **EPOS website**

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

## **Email address**

info@epos-eu.org

