Mt. ETNA eruption 29 September 2004

Volcano Observations-Thematic Core Service (VO-TCS) contributes to the EPOS-IP objectives on the basis of the know-how of the institutions participating to the TCS, thus going beyond the current fragmentation of the European volcanology community. VO-TCS aims at implementing interoperable services for spreading a broad range of volcano observations and knowledge to support research and volcano hazard assessment, merging the experience and scientific baggage of the main European Volcano Observatories (VOs) and Volcano Research Institutions and Universities (VRIs):

- Istituto Nazionale di Geofisica e Vulcanologia (INGV; Italy) managing two volcano observatories (Osservatorio Vesuviano and Osservatorio Etneo), which are responsible for the monitoring of the Campi Flegrei and Vesuvius, and Etna Supersites (http://supersites.earthobservations.org);
- Icelandic Meteorological Office (IMO; Iceland) responsible for the monitoring of the Icelandic volcanoes that represent a permanent Supersite;
- Consejo Superior de Investigaciones Cientificas (CSIC; Spain) is a research institution that provides data recorded by the monitoring system of the Canary Islands;
- Centre National de la Recherche Scientifique (CNRS; France) with the Institut de Physique du Globe de Paris (IPGP) and Observatoire de Physique du Globe (OPGC) de Clermont-Ferrand. IPGP coordinates the Observatoire Volcanologique et Sismologique de la Martinique, Observatoire Volcanologique et Sismologique de la Guadeloupe, and Observatoire Volcanologique du Piton de la Fournaise. OPGC contributes to the national volcano monitoring system;
- Institute of Geology and Mineral Exploration (IGME; Greece) provides observations relevant to Santorini volcano;
- University of the Azores (UAc; Azores Islands, Portugal) provides observations from the monitoring system of the volcanoes of the Islands;
- GeoForschungsZentrum (GFZ; Germany) contributes providing modelling tools.

In addition, Dublin Institute for Advanced Studies (DIAS; Dublin, Ireland) and the University of Bristol (UB; Bristol, United Kingdom) contribute to the WP11 activities.
SERVICES

Monitoring Centre at Osservatorio Vesuviano INGV, Naples

**Virtual Access to data/products/services**

- Through existing organizations such as ORFEUS (Observatories and Research Facilities for European Seismology) and the European supersite projects MED-SUV and FUTUREVOLC. Seismic, geodetic, geochemical (e.g. gas emission), volcanological (e.g. rock/ash), environmental (e.g. meteorological in co-located geochemical/geophysical stations) data and metadata (Level 0, 1).
- Multidisciplinary volcanic and hazard products such as geo-volcanological maps, chemical/physical data on rocks, ashes, and fluids, eruptive parameters, thermal characteristics of lavas, eruption rates, examples of hazard maps) (Level 2, 3).

**Virtual Access to computational platform/s**

- Repository of open source tools for modelling volcanic processes such as magma intrusions, lava/pyroclastic flow emplacement, ash dispersal.

**Trans National Access to**

- facilities of volcano observatories for scientists;
- temporary deployments of mobile pool of multi-disciplinary instruments;
- rock samples collections

USE CASE

Seismic Tremor at Etna on 7\textsuperscript{th} April 2017

The Use Cases will allow users to discover and download seismic, geodetic and remote sensing data, seismic, volcanological and remote sensing products, and to access volcanic hazard services.

CONTACT

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INGV- Osservatorio Etneo, Mt. Etna Volcano Supersite Point of Contact [http://www.med-suv.eu/](http://www.med-suv.eu/)

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