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Contribution of the European Volcanology community to the implementation of the EPOS infrastructure for accessing geoscience data

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During the last decade, the European volcanological community has undertaken a process of community building in the frame of the European Plate Observing System (EPOS) projects. The tangible outcome of this effort is the 'Volcano Observations' Thematic Core Service (VO-TCS), which aim is the definition of a clear legal and technical frame for the coordination of the European volcanology community, and management and accessibility of its huge scientific heritage.

The VO-TCS is currently developing facilities allowing long-term, easy access to volcanological data and products, and interoperable services provided by its Volcano Observatories (VOs) and Research Institutions (VRIs). The VO-TCS will offer virtual access to data, products, services, and computational platforms, and it is also defining the rules and procedures to properly allow transnational access to its volcanological facilities. The portfolio of data, products, software, and services is quite broad and varied, ranging from geophysics and geochemistry to volcanology. Data collection and analysis varies from in-situ and remote sensing observations to experimental analysis and computational elaborations. Overall, the TCS VOs and VRIs will provide quantitative, high-quality observations on the European volcanoes and the geodynamic background of the surrounding areas. For the purpose, VO-TCS has been integrating the experiences gained in monitoring and studying the Italian, Icelandic, French, Spanish, Greek, and Portuguese volcanoes. A first concrete result of the implementation of the VO-TCS is the H2020 EUROVOLC project, started in February 2018, which aims at networking the European volcanological community by supporting joint research activities and virtual/physical/ remote accesses to selected facilities.