



Seismology studies earthquakes and the propagation of seismic waves through the Earth or through other planet-like bodies. Understanding the origin and the mechanics of earthquakes is crucial to evaluate their hazards and mitigate the risks inherent to seismic events.

EPOS **SEISMOLOGY TCS** coordinates the integration and access to various seismological and earthquake-related data services.

EPOS SEISMOLOGY TCS gathers and provides data and scientific products coordinated by three prominent European infrastructures:

- ORFEUS
- EMSC
- EFEHR

SERVICES

Visual representation:

- 9 COMMUNITY PORTAL
- 55 DDSS (Data, Data Products, Software and Services) divided into 3 main categories:
 - Waveform services;
 - Seismological product services;
 - Seismic Hazards and Risks Services.



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

Seismologists have a long-lasting tradition in sharing data through open access. EPOS SEISMOLOGY TCS, following the same open data principles, collects seismic information from national and regional observatories, harmonises it and distributes it to different societal groups, such as civil protection agencies, researchers and industries, among others.

Within the EPOS framework, EPOS SEISMOLOGY TCS fosters the use and sharing of data from different disciplines of the solid Earth, contributing to expand societal knowledge not only of earthquakes but also of other physical and chemical manifestations of the Earth.

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**.

