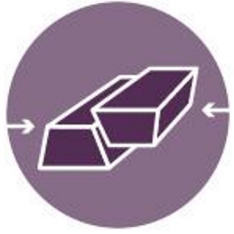




**NEAR-FAULT  
OBSERVATORIES**

# **NEAR-FAULT OBSERVATORIES**

**Thematic Core Service**



NEAR-FAULT  
OBSERVATORIES



**EPOS**  
EUROPEAN PLATE OBSERVING SYSTEM



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# Overview

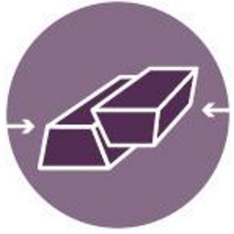
- **Fault zones** are usually located at the boundaries of tectonic plates, the areas with the highest seismic hazard on the Earth.
- **Near-Fault Observatories (NFOs)** are research infrastructures designed to collect data and observations that help to unravel the anatomy of complex seismogenic faults.



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# Near-Fault Observatories TCS

- Within EPOS, the NFO Thematic Core Service (TCS) **integrates multidisciplinary data and scientific products** in Europe.
- **6 onsite observatories**, located in areas of elevated seismic hazard, use highly accurate sensors to monitor the activity in the fault zones over time.



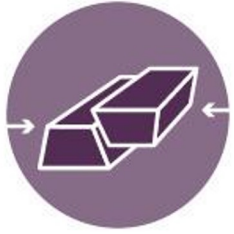
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# Near-Fault Observatories TCS

NFO Thematic Core Service integrates:

- Seismological
- Geodetic
- Geological
- Geochemical, and
- Satellite

Data collected by individual observatories into a **common monitoring network.**



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# Services

## 2 community portals

- CREW
- FRIDGE

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

*divided into 3 categories:*

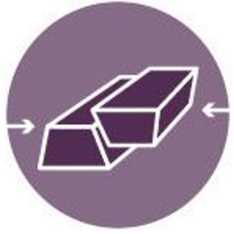
- Seismological data
- Geochemical data
- Geophysical data



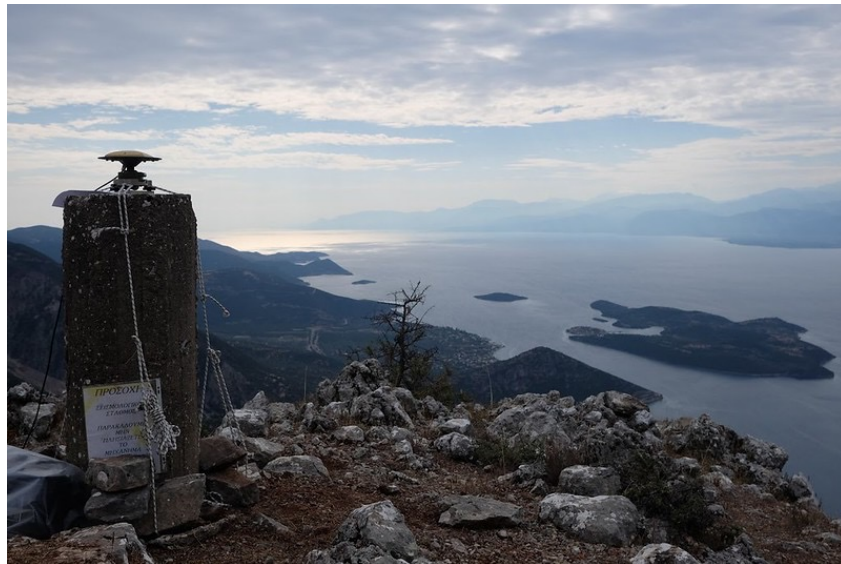
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# Near-Fault Observatories TCS

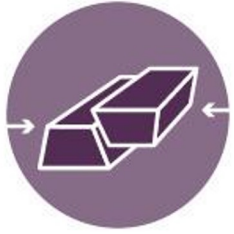
- NFO data is essential to make sense of the **physical and chemical processes that occur along and around active fault zones.**
- Monitoring faults, in real-time and in different locations, in areas prone to generate large earthquakes can **help societies prepare for future seismic events.**
- The NFO community is committed to **foster data sharing and the integration of new scientific products.**



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# Contacts

## **EPOS TCS NFO mini-website**

<https://www.epos-eu.org/tcs/near-fault-observatories>

## **EPOS website**

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

## **Email address**

info@epos-eu.org

