

## **Geohazards TEP (GEP) Data Processing Service Pipeline Pack**

The Data Processing Services support the geohazards community with on-demand processing for specific user needs or systematic processing to address specific area-of-interest analysis. To exploit the geo-information generated, the Platform leverages Jupyter Notebooks and open APIs for the interactive processing and post-processing services and enables users to exploit and share the processing results. The Data Processing Services can be consumed in a pay-per-use or subscription model.

The Pipeline pack provides access to all Data Processing Services in a pure pay-per-use model. This pack comes with 1TB persistent storage with subscription. Additional storage is available in pay-per-use at €35 per TB/month.

## **Geohazards TEP (GEP) Community Data Hosting for Exploitation**

The Community Data Hosting for Exploitation pack provides a secure environment in the Cloud to host data collections targeted for data access from a community, according to findability, accessibility, interoperability, and reusability (FAIR) principles. The data collections are published in the metadata catalogue for discovery. They are made available for specific combinations of visualization, processing or download tasks (depending on the dataset type).

This pack is targeted for organisations wanting to have a data collection they own hosted on the platform for exploitation or to guarantee the long-term preservation of data processing services results.

This offering includes the provision of the storage space, data ingestion, registry and data discovery and access services via standard API. The catalogue services follow the best practices for search services as defined by the CEOS (Committee on Earth Observation Satellites) using OGC OpenSearch with Geo, Time and EO extensions. Support upgrades are available according to the User Support Services offering.

## **About the Geohazards Exploitation Platform**

The Geohazards Exploitation Platform (GEP) supports the geohazards community with on-demand processing for specific user needs or systematic processing to address specific area-of-interest analysis. The GEP processing services include basic services providing full resolution imagery and change detection imagery for rapid online visualization and advanced services both for Optical & SAR data processing. The advanced services include Classic InSAR diachronic analysis, Advanced InSAR for Persistent Scatterers and Small Baseline time series, Digital surface model generation from satellite optical stereo images and Detection and measurement of horizontal ground motion from Optical imagery.