



# CDGP : THE DATA CENTER OF DEEP GEOTHERMAL ENERGY IN ALSACE

Geosciences for the energy system transition | GeoT

The interdisciplinary thematic institutes of the University of Strasbourg & Inserm

The Data Center of Deep Geothermal Energy (CDGP, <https://cdgp.u-strasbg.fr/>) was created in 2016 by the LabEx G-Eau-Thermie Profonde, now ITI GeoT (<https://geot.unistra.fr/>) to preserve, document, archive, provide access to and distribute data acquired on geothermal sites in Alsace.

It is a local node for the EPOS Anthropic Hazards platform (<https://episodesplatform.eu>).

## MAIN ACTIONS OF CDGP

\*Retrieve and collect Legacy data from Soutz and on-going geothermal energy data.

\*Inventory and identification of data thanks to old publications and reports

Prepare data and QC:

\*Document data with metadata.

\*Development of tools to create ISO19115/19139 metadata

Manage the requests of data:

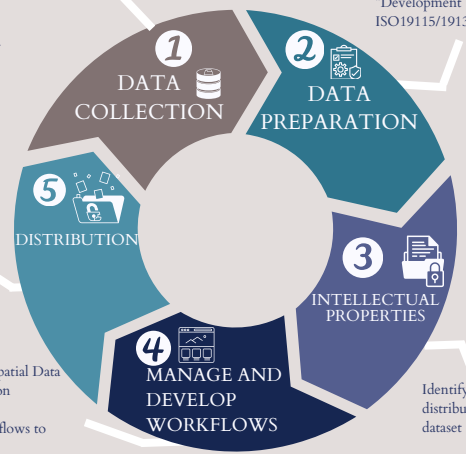
\*Authentication, Authorization and Accounting

Infrastructure (AAAI) ensures the good distribution of data according to Intellectual Property Rights, user's affiliation and distribution rules

IT development and infrastructure:

\*Development of a Spatial Data Infrastructure based on GeOrchestra

\*Setting up the workflows to upload data



Identify owners and define distribution rules for each dataset

## STATISTICS



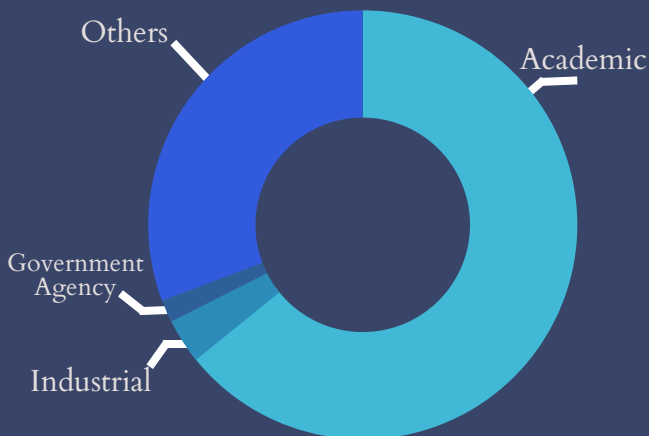
88 data sets are available



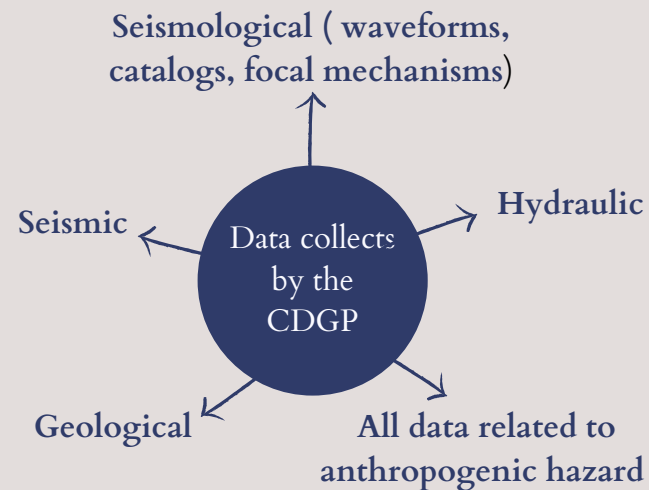
13 episodes are available



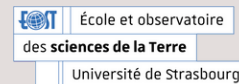
414 requests since 2017



## DATA DISTRIBUTED BY THE CDGP



## PARTNERS



## MORE INFORMATION :

<https://cdgp.u-strasbg.fr>

[cdgp@eost.unistra.fr](mailto:cdgp@eost.unistra.fr)

5 Rue René Descartes, 67000 Strasbourg

## What are the data on the platform ?

The high-quality collected data, first originate from the Soutz-sous-Forêts pilot plan, cover the whole life of geothermal projects, from exploration to drilling, stimulation and circulation phases.

The majority of the data sets are gathered into “episodes”, i.e. time-correlated collections of geophysical, technological and other relevant geo-data over a geothermal area. Some data sets are gathered around the different geothermal sites.

Other geophysical data such as gravimetric, magnetic, InSAR data will be also included into the datastore in the future.

## How data are distributed ?

Data are distributed through a web platform based on GeOrchestra, a Spatial Data Infrastructure (SDI) composed of independent and interoperable modules that provides metadata editing, thematic and regional data search functions and enables to extract and visualize maps.

An Authentication, Authorization and Accounting Infrastructure (AAAI) ensures the good distribution of data according to Intellectual Property Rights (IPR), user’s affiliation (i.e. academic, industrial, ...) and distribution rules, either automatically or after approval from the data owner.

Data are also distributed through the EPOS-TCS-AH platform.

## What is EPOS?

EPOS stands for “European Plate Observing System”. Its aim is to facilitate integrated use of data by sharing data and services that enables people to exploit them. Its main focus is Solid Earth Science with multidisciplinary contributions:

Earth scientists, national research infrastructures, Information and Communication Technology experts, decision makers. Its applications are diverse: research, science, training, education, ...

Each community provides access to its resources through European-wide services called Thematic Core Services (TCS)(e.g., seismology, volcanology, geodesy, experimental laboratories, etc).

## What is the link between EPOS and CDGP?

The CDGP is a local node for EPOS-TCS Anthropogenic Hazards platform called EPISODES, that provides an environment and facilities for conducting research onto anthropogenic hazards, especially related to the exploration and exploitation of geo-resources. Access to “episodes” data originating from the CDGP will also be granted via the EPOS-IP Anthropogenic Hazards platform (<https://episodesplatform.eu>).

The data are also available on the EPOS Data Portal (<https://www.ics-c.epos-eu.org/>).

## Distribution of data : CDGP or EPOS-AH platforms

