

EGU23-14423

EPOS
 EUROPEAN PLATE OBSERVING SYSTEM

 GNSS DATA
 AND PRODUCTS

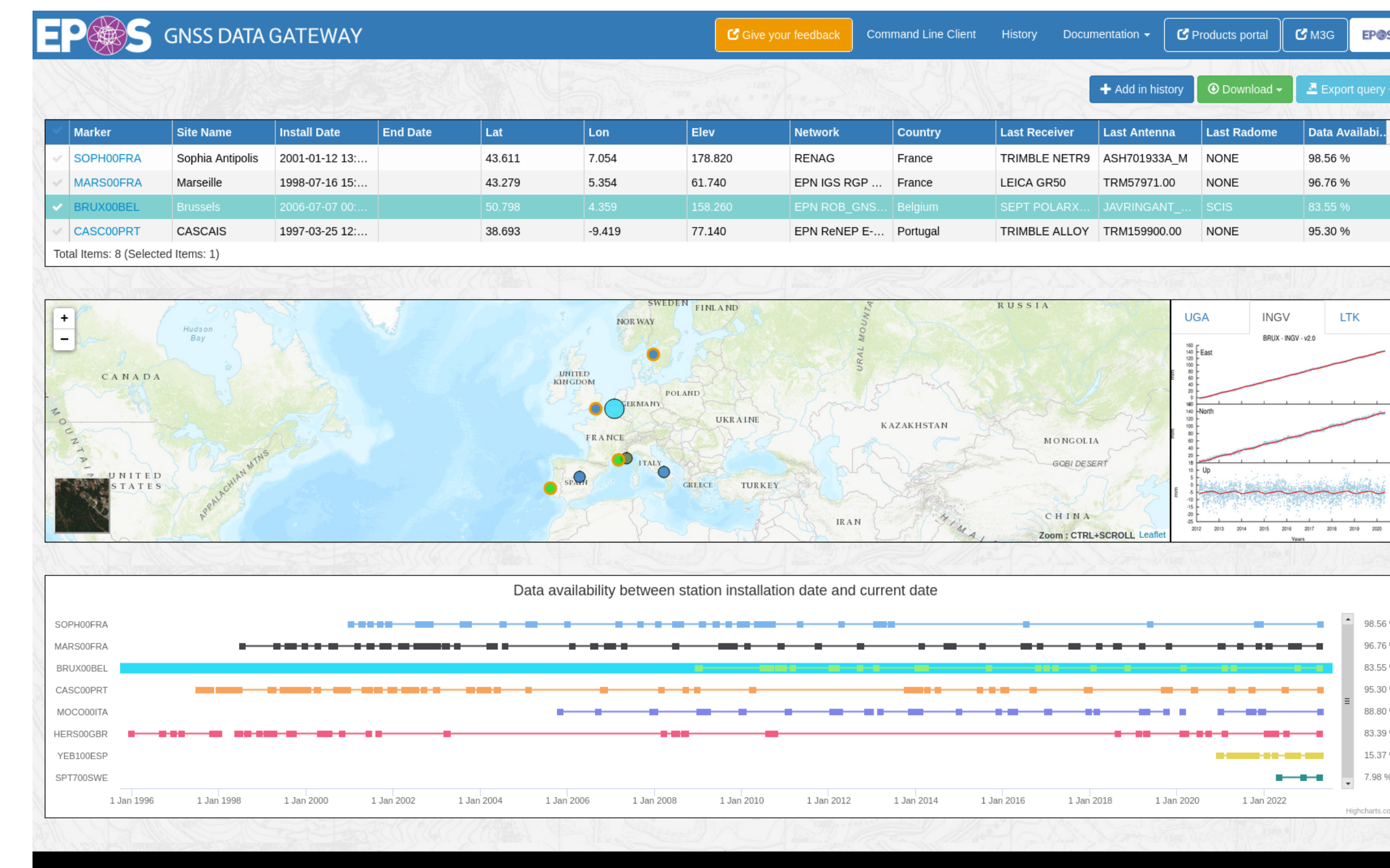
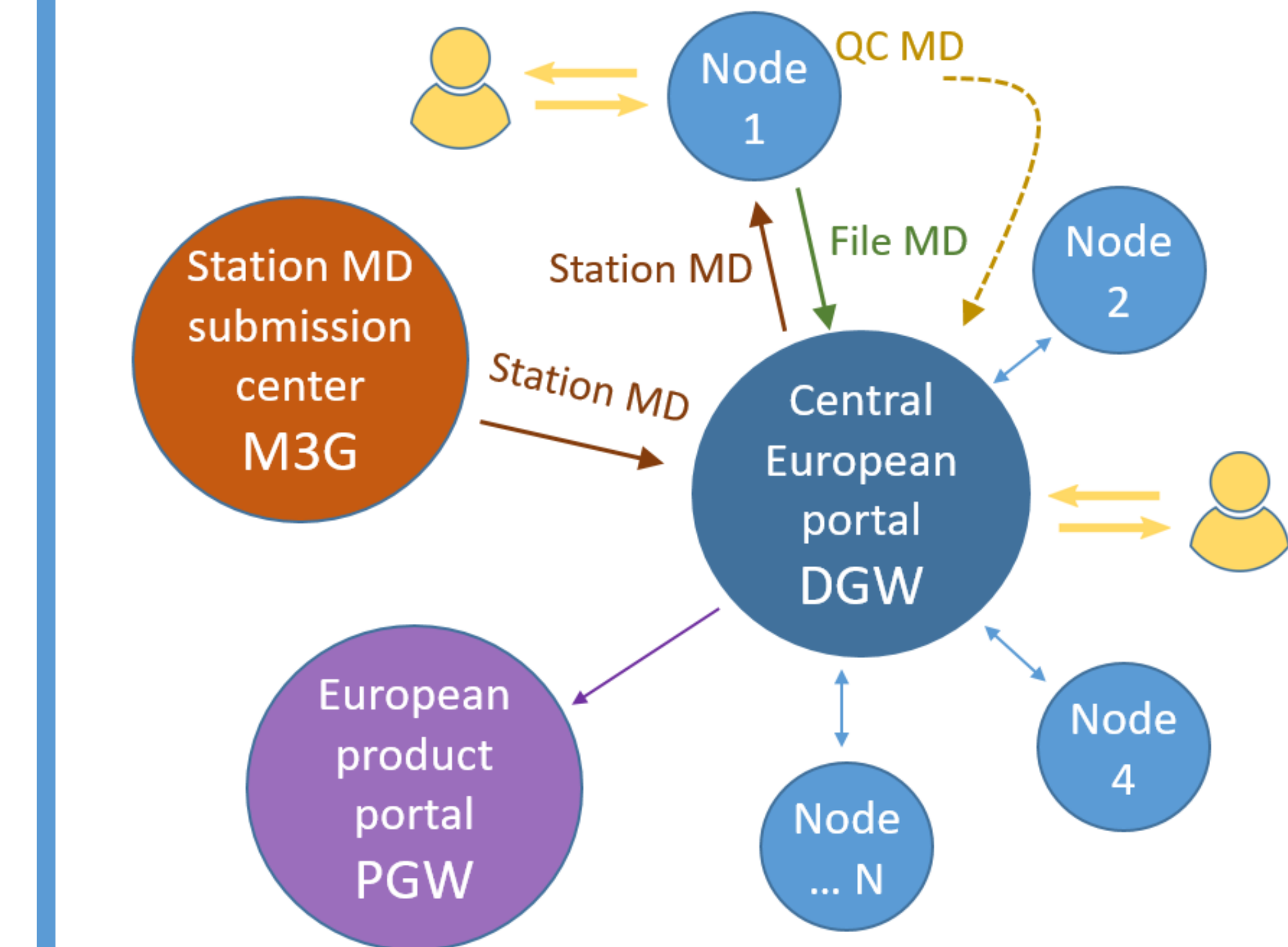
EPOS-GNSS DATA GATEWAY

A portal to European GNSS Data and Metadata

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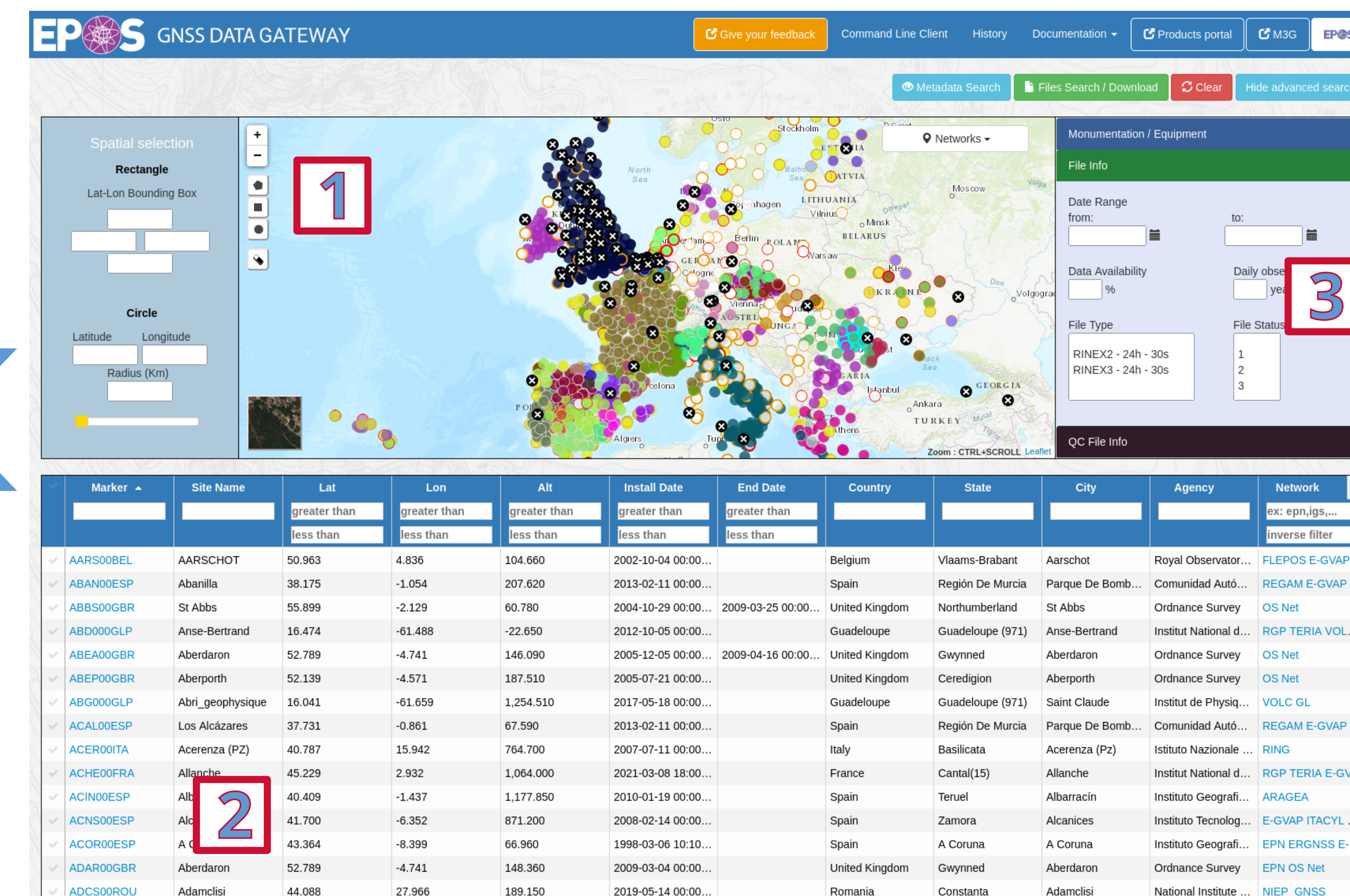


How does it works?



Station Metadata

The Web client



Geographical & network selection

Quick Filter

simple or advanced search

File Metadata / File Download

The EPOS-GNSS Data Gateway is accessible at:

Web client:

<https://gnssdata-epos.oca.eu>

Command Line Client:

<https://gitlab.com/gpseurope/pyglass/-/tags>

API Restfull:

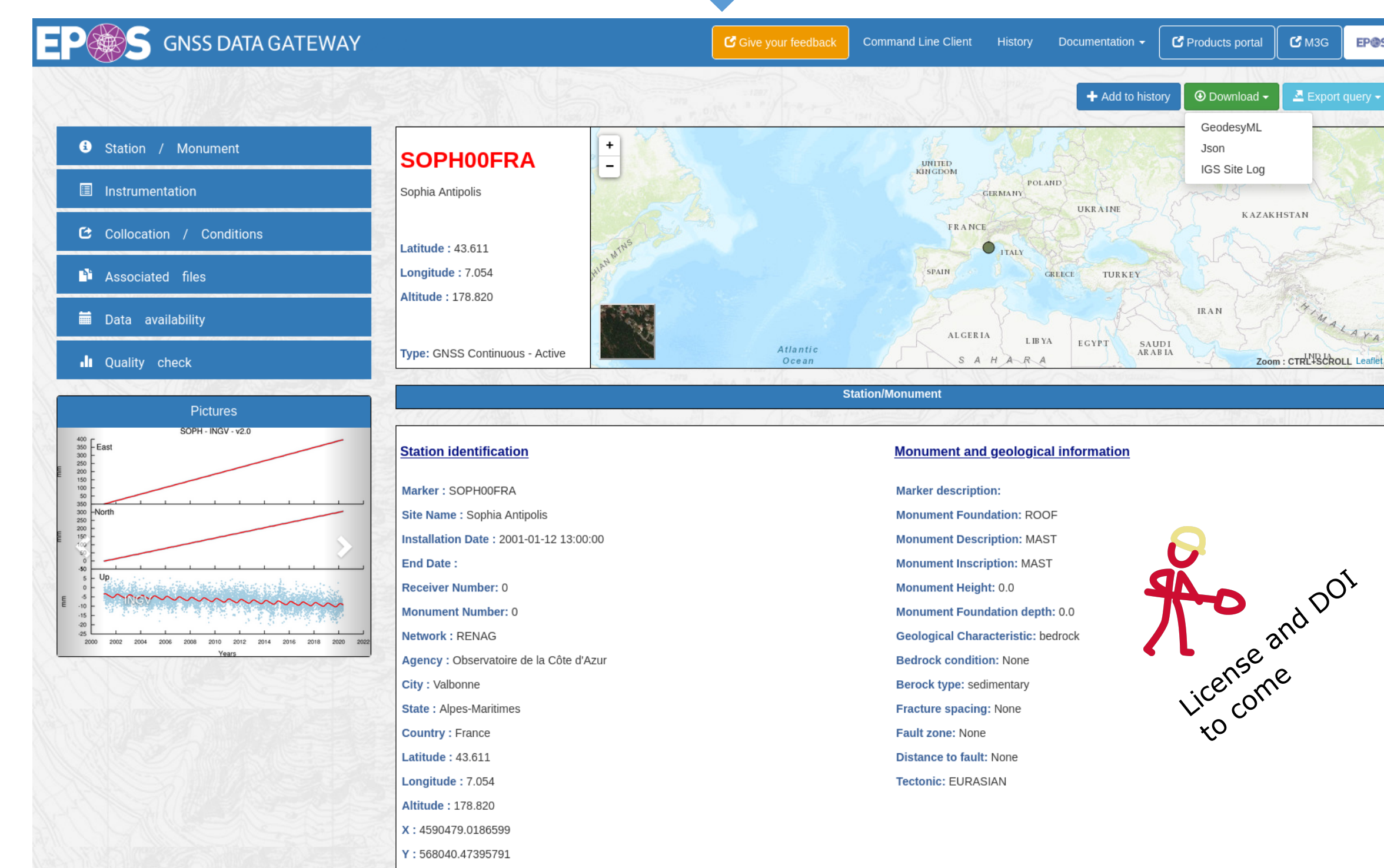
<http://gnssdata-epos.oca.eu:8080/GlassFramework>

A distributed infrastructure

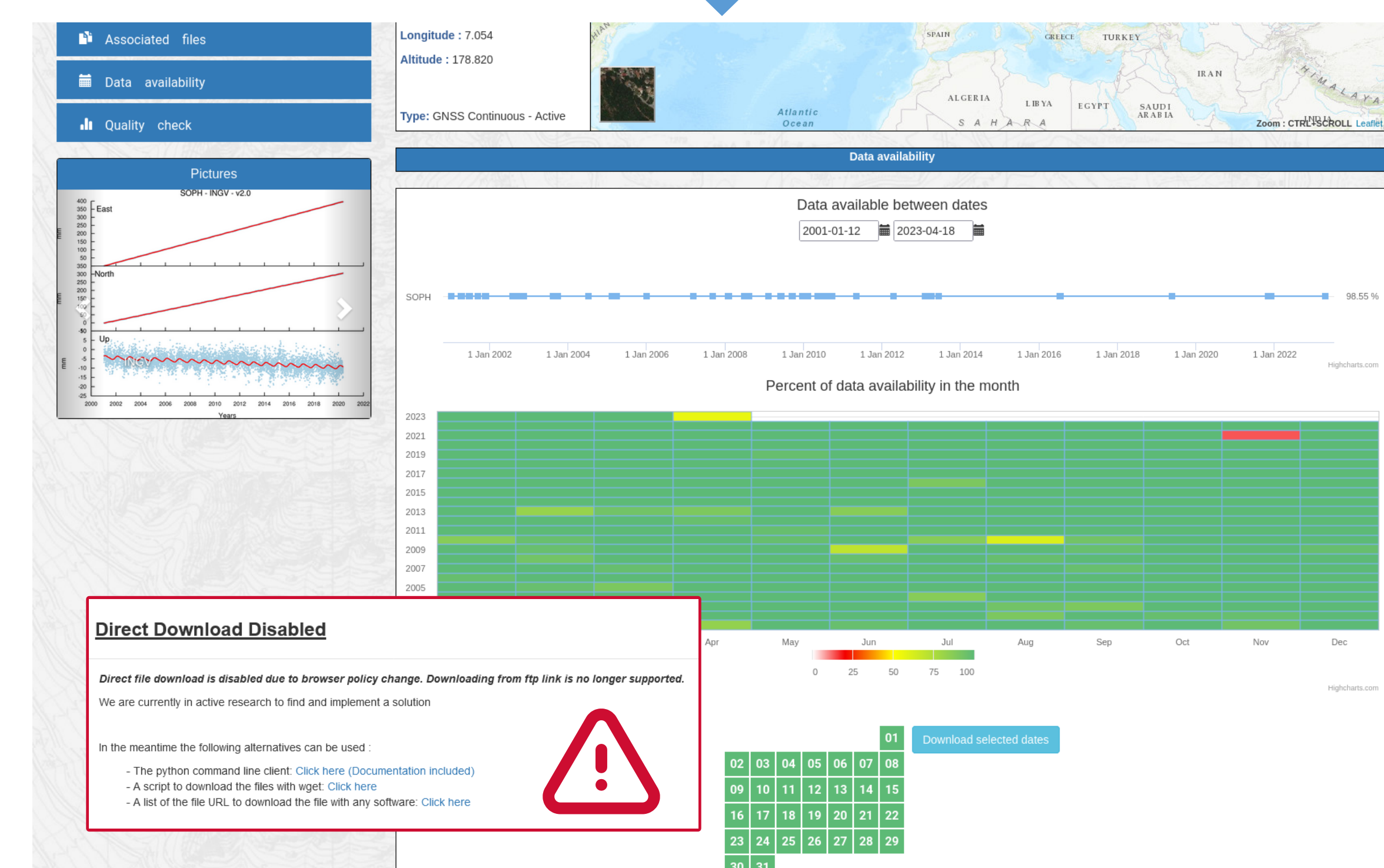


The EPOS-GNSS Data Gateway is:

- **1733** stations
- **4.7M** RINEX 2 and RINEX 3 files
- **42** countries and **66** GNSS networks
- **2800** daily unique users summed over a month from **148** countries



License and DOI to come

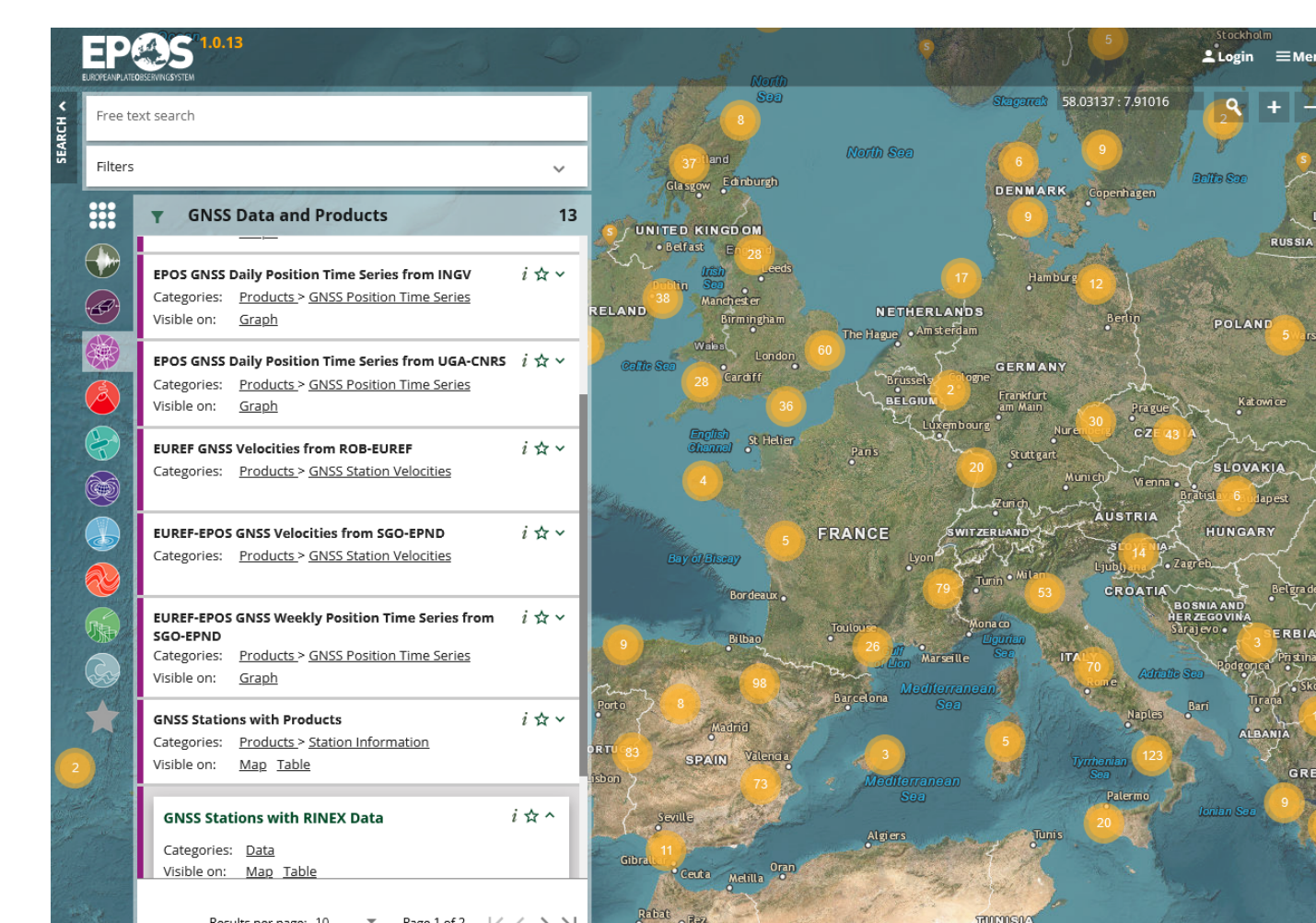


Other clients

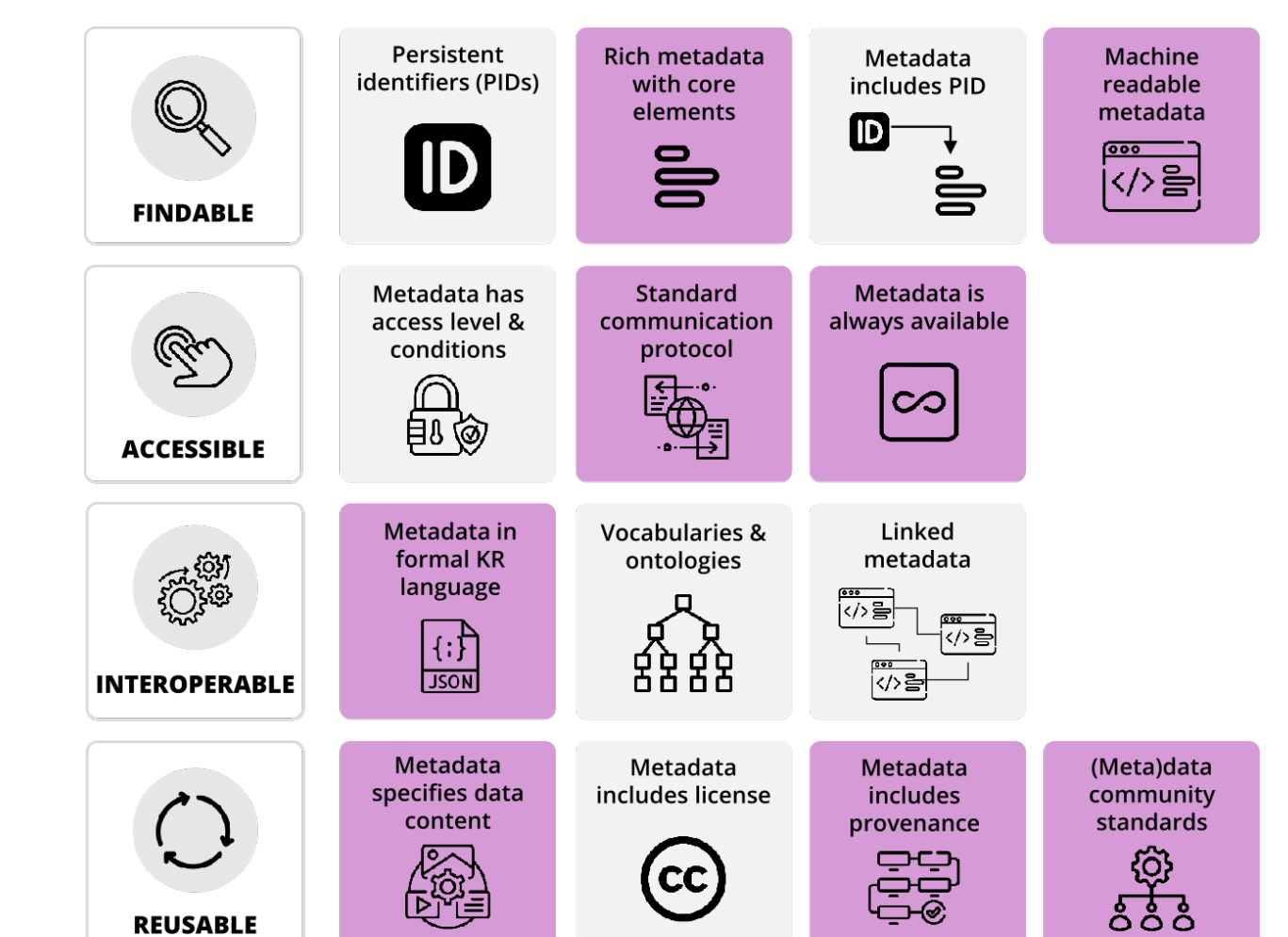
Command Line Client

```
python pyglass.py stations -h
usage: pyglass.py [-h] [--version] [-u URL] [-c [CONFIG_FILE]]
                  [-m MARKERS [MARKERS ...]] [--site SITE_NAME ...]
                  [-r RECT_SELECT [RECT_SELECT ...]] [--circle SELECT]
                  [CIRCLE_SELECT ...] [-p POLYGON_SELECT]
                  [POLYGON_SELECT ...] [--latmin MIN_LAT] [--latmax MAX_LAT]
                  [--lonmin MIN_LON] [--lonmax MAX_LON] [--yearmin MIN_YEAR]
                  [--yearmax MAX_YEAR] [--datein INSTALLED_DATE_FROM]
                  [--dateout INSTALLED_DATE_TO] [--rdmin REMOVED_DATE_FROM]
                  [--rdmax REMOVED_DATE_TO] [--nw NETWORK [NETWORK ...]]
                  [--nw INVERSE_NETWORKS [INVERSE_NETWORKS ...]]
                  [--ag AGENCY [AGENCY ...]] [--ss SATELLITE [SATELLITE ...]]
                  [--rt RECEIVER_TYPE [RECEIVER_TYPE ...]]
                  [--at ANTENNA_TYPE [ANTENNA_TYPE ...]]
                  [--rad RADOME_TYPE [RADOME_TYPE ...]]
                  [--co COUNTRY [COUNTRY ...]] [--pv PROVINCE [PROVINCE ...]]
                  [--ct CITY [CITY ...]] [--dss DATA_DATE_START]
                  [--dde DATA_DATE_END] [--ds DATA_DATE_END]
                  [--fs FILE_TYPE] [--moy MINIMUM_OBSERVATION_YEARS]
                  [--sa SAMPLING_WINDOW] [--sf SAMPLING_FREQUENCY]
                  [--fs STATUS_FILES] [--o OUTPUT] [--download-dir DOWNLOAD_DIR]
                  [--all] [--print-url] [--timeout TIMEOUT]
                  target
```

EPOS Multidata Portal



Towards FAIR Data & Metadata



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