

First Generation Sentinels: a wealth of data for the users cesa



Copernicus is the largest producer of EO data in the world

All global landmass is observed every 5 days at 10m resolution

>20 TB of Daily Data **Production by** Sentinels

~250 TB of Daily Sentinel **Products Disseminated for Services to Society**

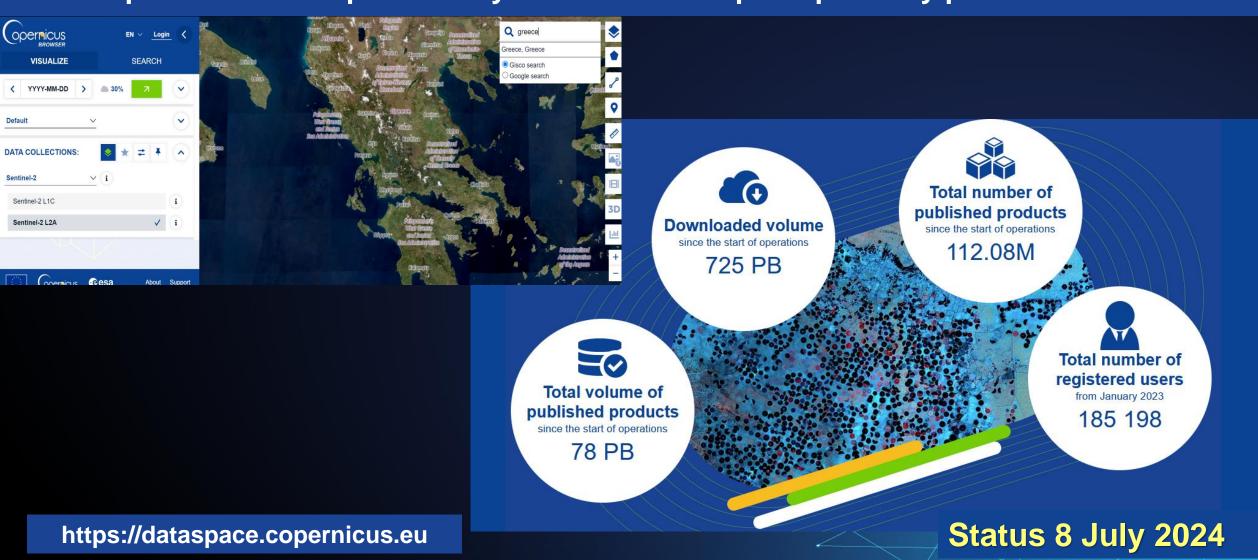
> 750.000 **Registered Users** (>180.000 since new CSDE) **Supporting 6** operational services **Atmosphere Disaster** Security

Copernicus Data Access



→ THE EUROPEAN SPACE AGENCY

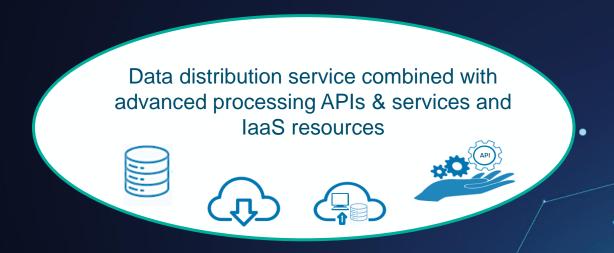
The Copernicus Data Space Ecosystem is now the principal entry point for Sentinel data



CDSE Main Principles and Features



- Contribute to building an efficient and attractive European solution to access and process Copernicus Sentinel data
- Increase user direct interaction with the data processing the data directly in the Ecosystem.
- Provide a long-term perspective building trust with users and developers



- Open Ecosystem:
 - Open and free public services under fair use policy, adjustable capacity and performance
 - Capability to deploy public and 3rd party services one of the main Ecosystem goals

Sentinels: Immediately Available Data



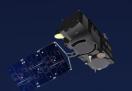
>78 PB immediately available (>110 Million products)

- Sentinel-1
 - GRD SAFE-COG
 - GRD SAFE (last year)
 - OCN
 - SLC
 - L0 RAW (Europe full, ROW last year)
- Sentinel-2
 - L1C
 - L2A



- Sentinel-3 Land
 - OLCI L1/L2 NRT and NTC (NRT last year)
 - SLSTR L1/L2 NRT and NTC (NRT last year)
 - SRAL L1/L2 NRT, STC and NTC (STC last month, NRT last year)
 - SYN L2 STC, NTC (STC last month)
- Sentinel-5P
 - Level-1B NTC
 - Level-2 NRT and NTC (NRT last month)

If not explicitly stated otherwise, worldwide coverage, full and up-to-date collection





























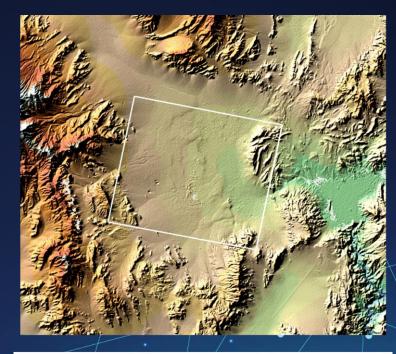
Additional Data Offer



- Global Mosaics for Sentinel-1, Sentinel-2
- Copernicus Contributing Missions Data (e.g. VHR Europe, Copernicus DEM)
- Sentinel Auxiliary and Engineering Data
- Copernicus Services (CAMS, CEMS, CLMS, CMEMS)

and more...

















Tools and Services



Large portfolio of data access interfaces and data exploitation services:

- Copernicus Browser for search, access and visualisation
- OData, STAC and S3 APIs for access to data files
- Sentinel Hub and openEO APIs for streamlined data access
- JupyterLab for hosted analysis and processing
- On-Demand Processing Service
- Traceability Service
- Infrastructure as a Service
- Public User Forum and Support Desk

dataspace.copernicus.eu







upyte/lab

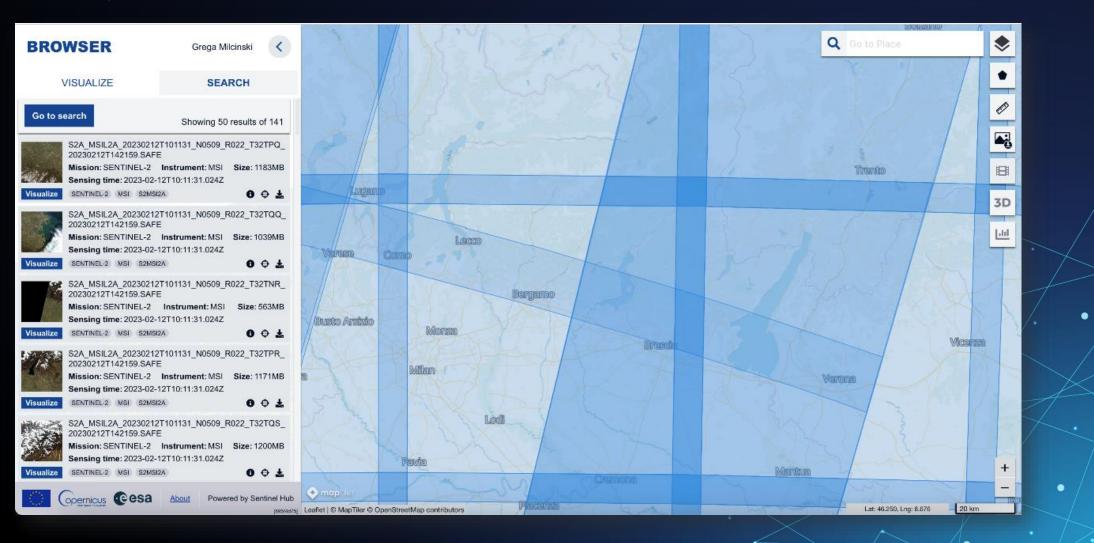
on-demand

laaS





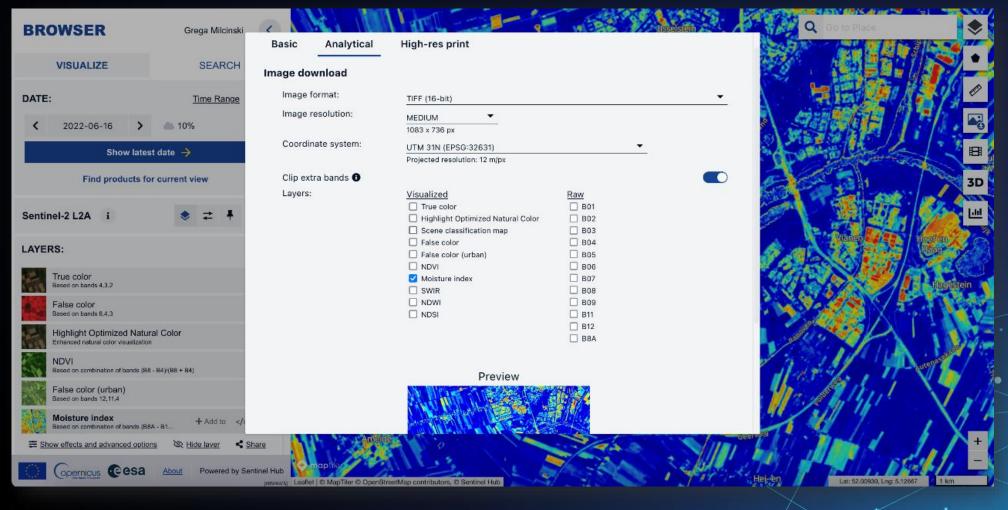
Search, query and download all User Level Data





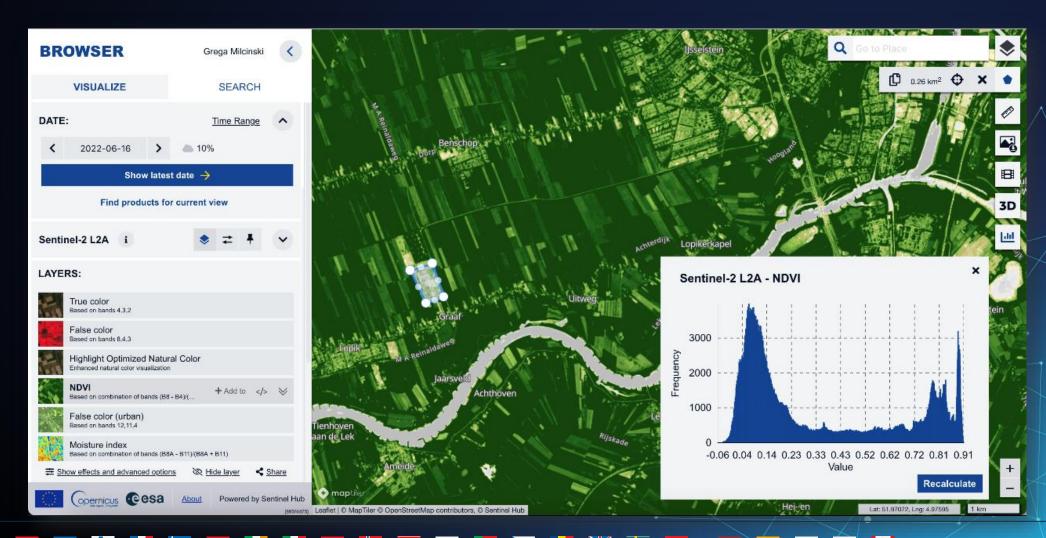
Interactive visualisation and analysis of most important data collections

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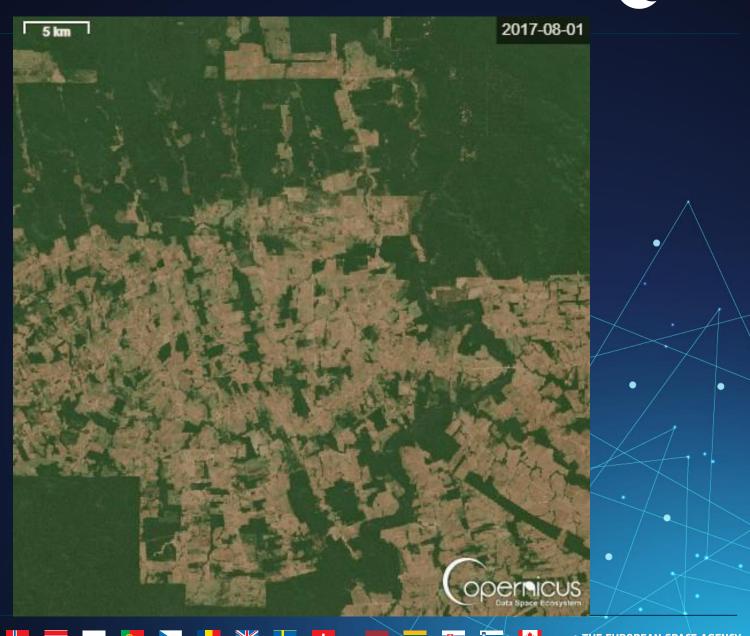


Export subset of the data (also in print quality)



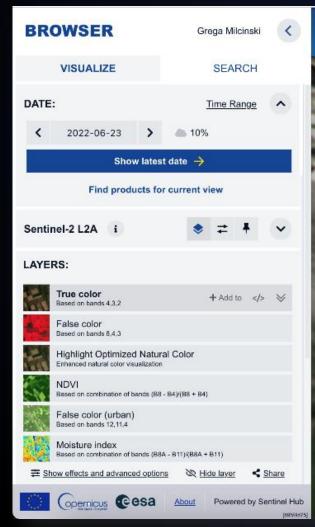


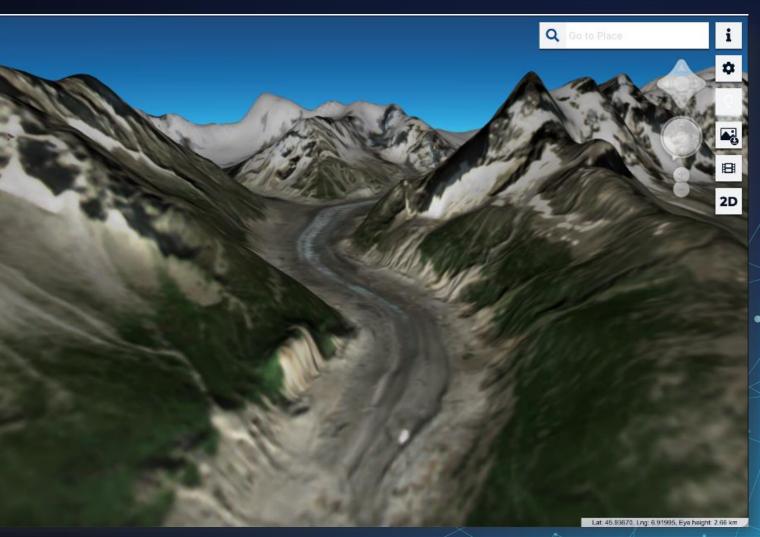
Comparison, time-lapses, area analysis and more...





3D exploration and visualization





Ecosystem Help Center - Documentation

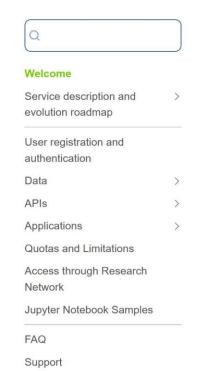








Documentation



Welcome to the Copernicus Data Space Ecosystem **Documentation Portal**

We're delighted you signed up!

Now, let's explore our extensive documentation to gain insights into our comprehensive Earth Observation data collection and the array of data access and data processing capabilities.

Our documentation is a living resource, continuously updated to provide you with the latest information.

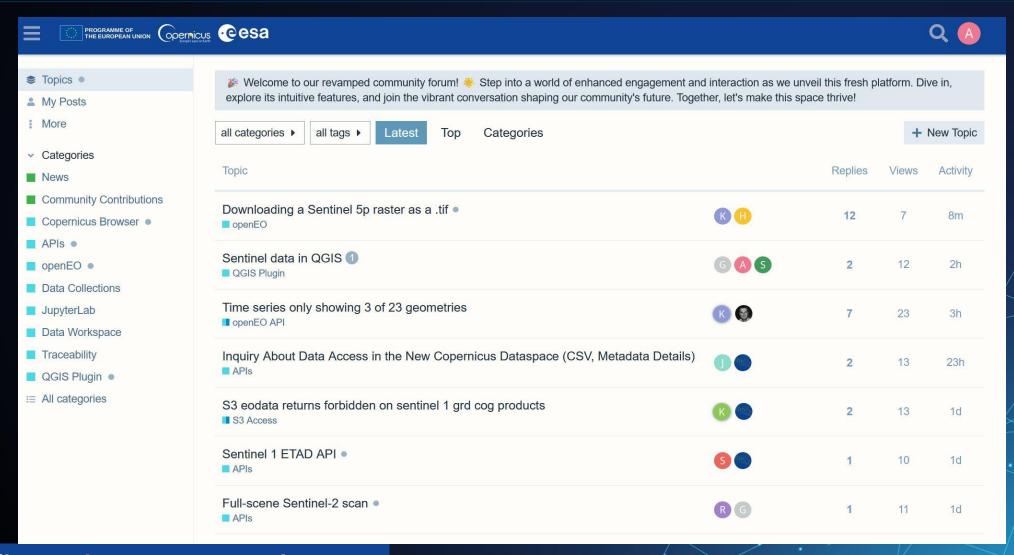
Discover within this documentation:

- Data: Texplore large amounts of open and free Earth Observation datasets, including Sentinel Data, Copernicus Contributing Missions, Federated Datasets, and Complementary Data, with detailed information.
- APIs: Time find the perfect interface for your needs in our suite of APIs. Whether you seek catalog access, product downloads, data visualization, or processing capabilities, our offerings encompass a range of options, including S3, STAC, openEO, and Sentinel Hub APIs.
- Applications: Simplify your satellite data journey and engage with data using our user-friendly applications for searching, visualizing, modifying, and downloading data effortlessly.

https://documentation.dataspace.copernicus.eu

Ecosystem Help Center - Community Forum





https://forum.dataspace.copernicus.eu

Ecosystem Dashboard



Real-time dashboard for following ecosystem health and use:

- Instant service news banner
- General information about users
- Published and downloaded data volumes
- Streamlined data access
- Service health
- Earth Observation Mission snapshot











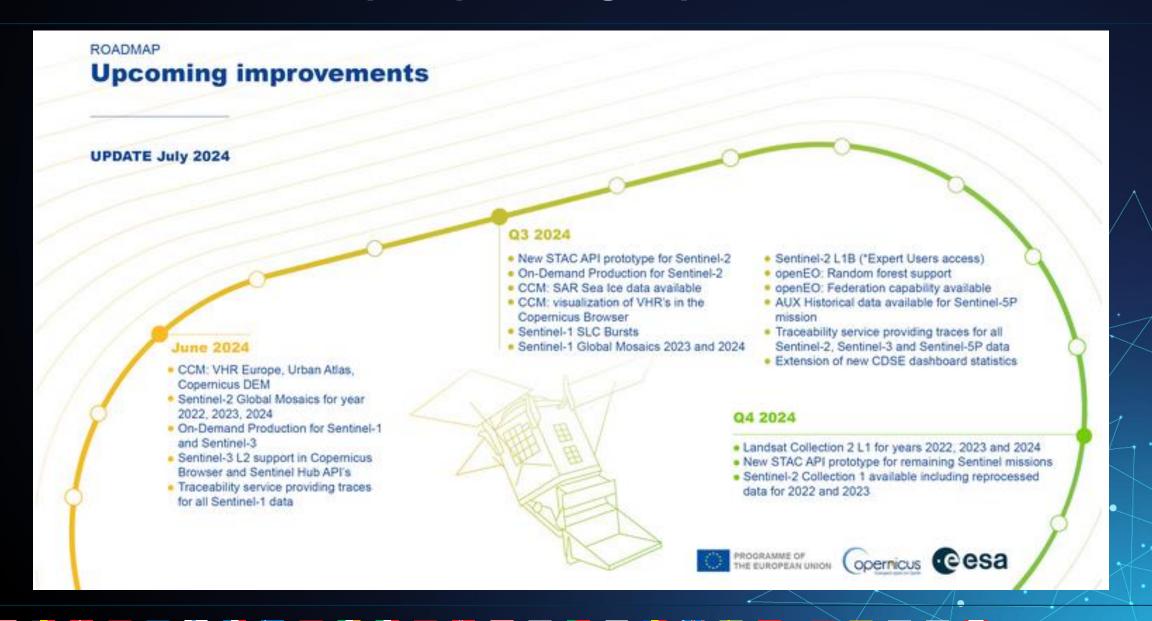






CDSE Public Roadmap - Upcoming improvements





https://dataspace.copernicus.eu



Explore the Copernicus Data Space Ecosystem

Welcome to the Copernicus Data Space Ecosystem, an open ecosystem that provides free instant access to a wide range of data and services from the Copernicus Sentinel missions and more on our planet's land, oceans and atmosphere.

The Copernicus Data Space Ecosystem not only ensures the continuity of the open and free access to Copernicus data but also extends the portfolio for data processing and data access possibilities.

LOGIN 🗹

