



# Copernicus Browser

**OSGEO Slovenia 2024**  
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# Agenda

- 1) The Copernicus Programme
- 2) Copernicus Data Space Ecosystem
- 3) Data Access and Processing APIs
- 4) Copernicus Browser & Live Demo**
- 5) Questions



# The Copernicus Programme

Copernicus is the Earth Observation component of the EU Space programme, observing our planet's environment and systems.

- Data open and free to all
- Largest EO programme in world
- 16 TB of data collected **every day**
- Huge benefits for business and academia in Europe



# Data Access

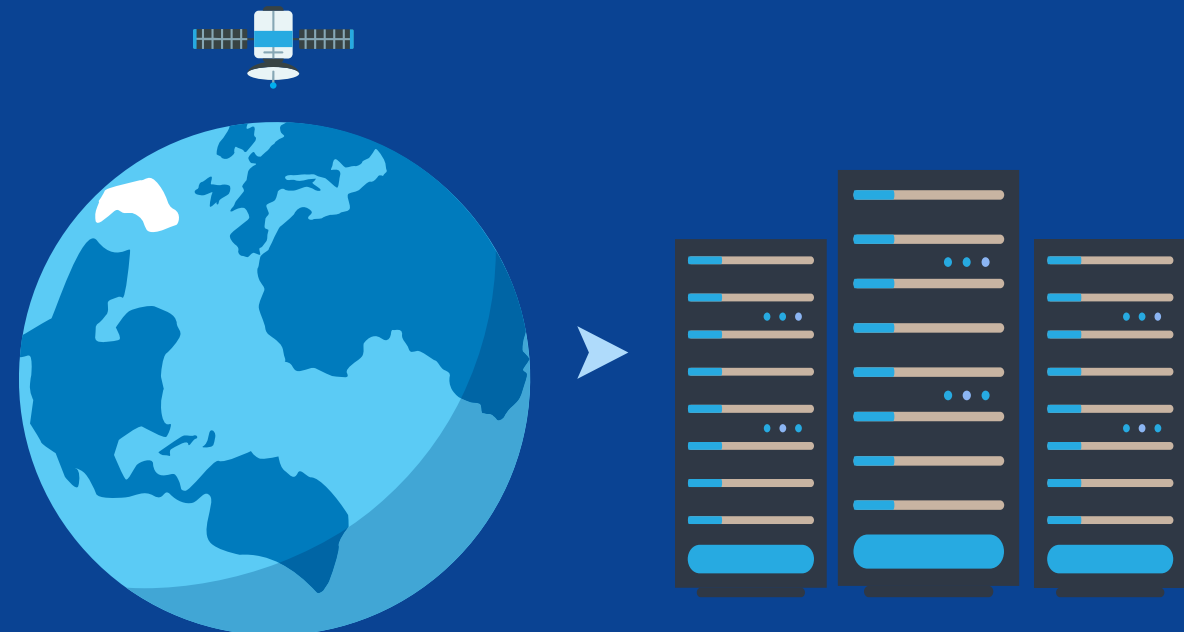




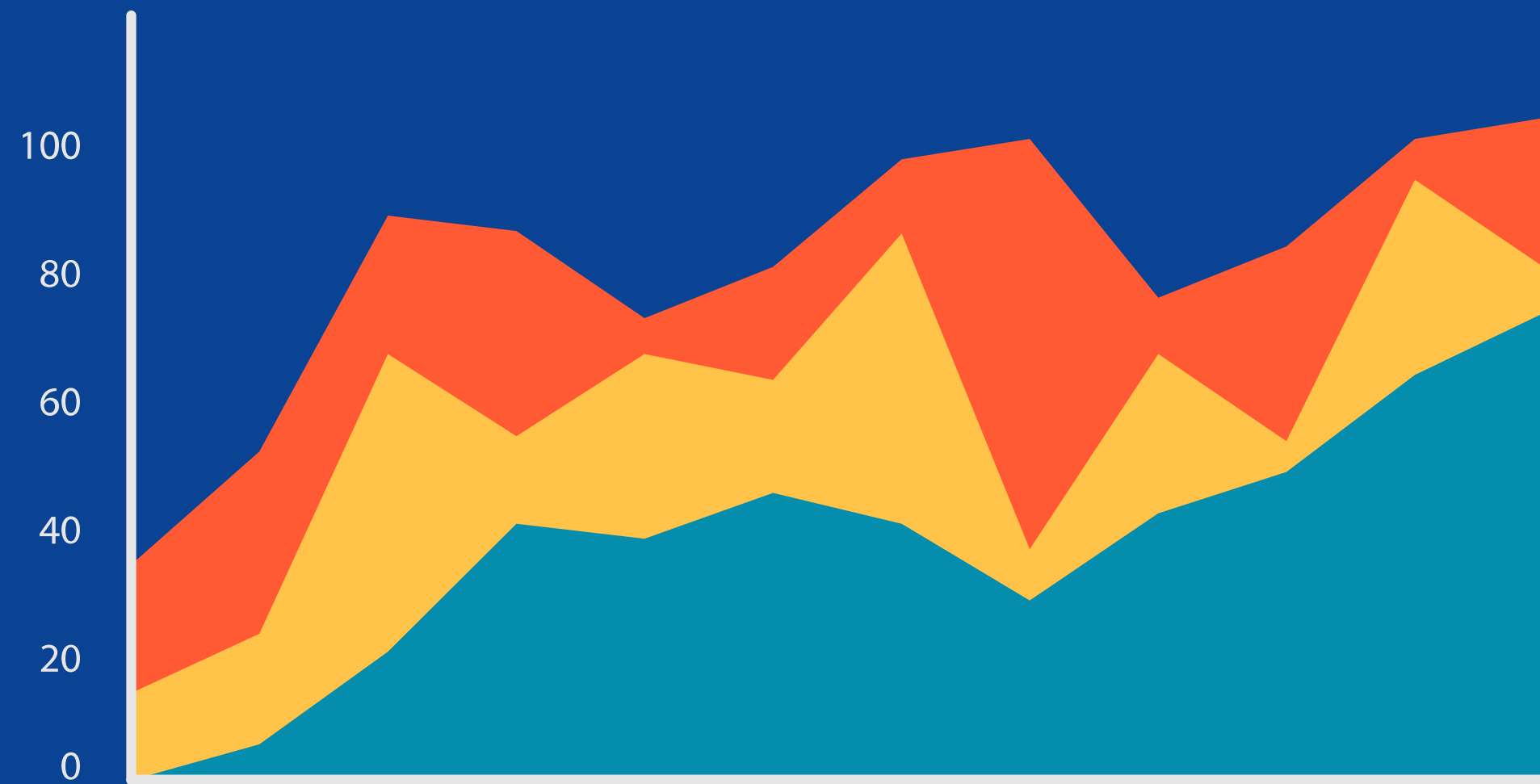
# Data Processing



## Data Access



# Data Visualization



Data Access

Data Processing

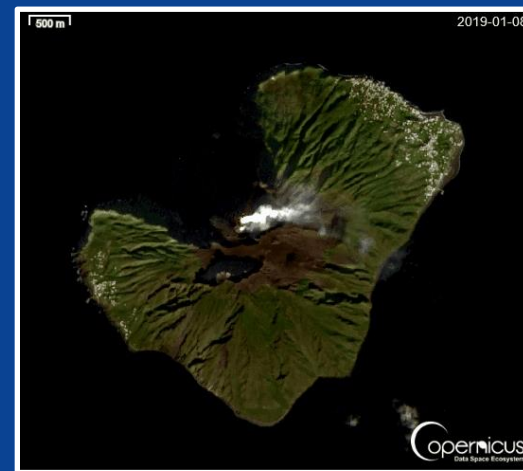


# Copernicus Data Space Ecosystem

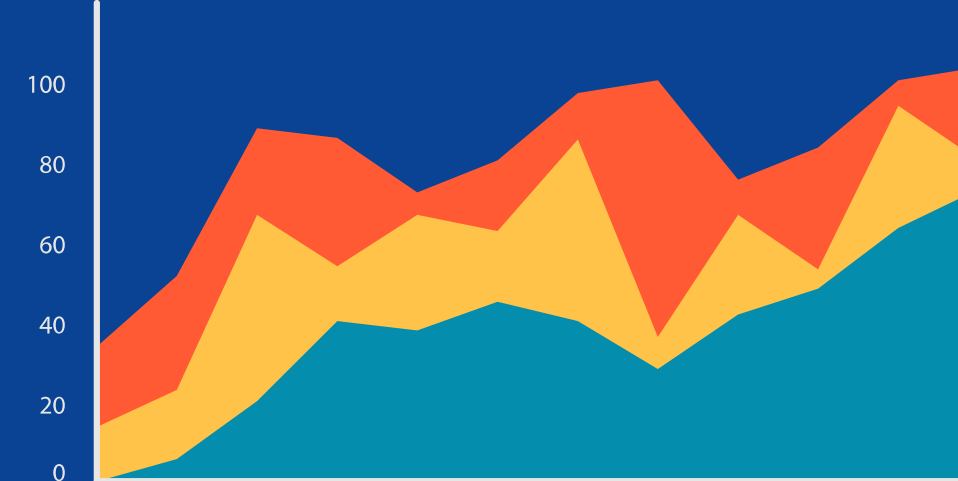
## Data Access



## Data Processing



## Data Visualization





# Copernicus Data Space Ecosystem

- The **authoritative source** for full and up-to-date archives of Sentinel data
- **Immediately available, free and open data**
  - Currently 64 PB and more than 100 PB by 2028
- **Open Ecosystem** of advanced services (e.g. API Access, Cloud processing, Code Repository...)



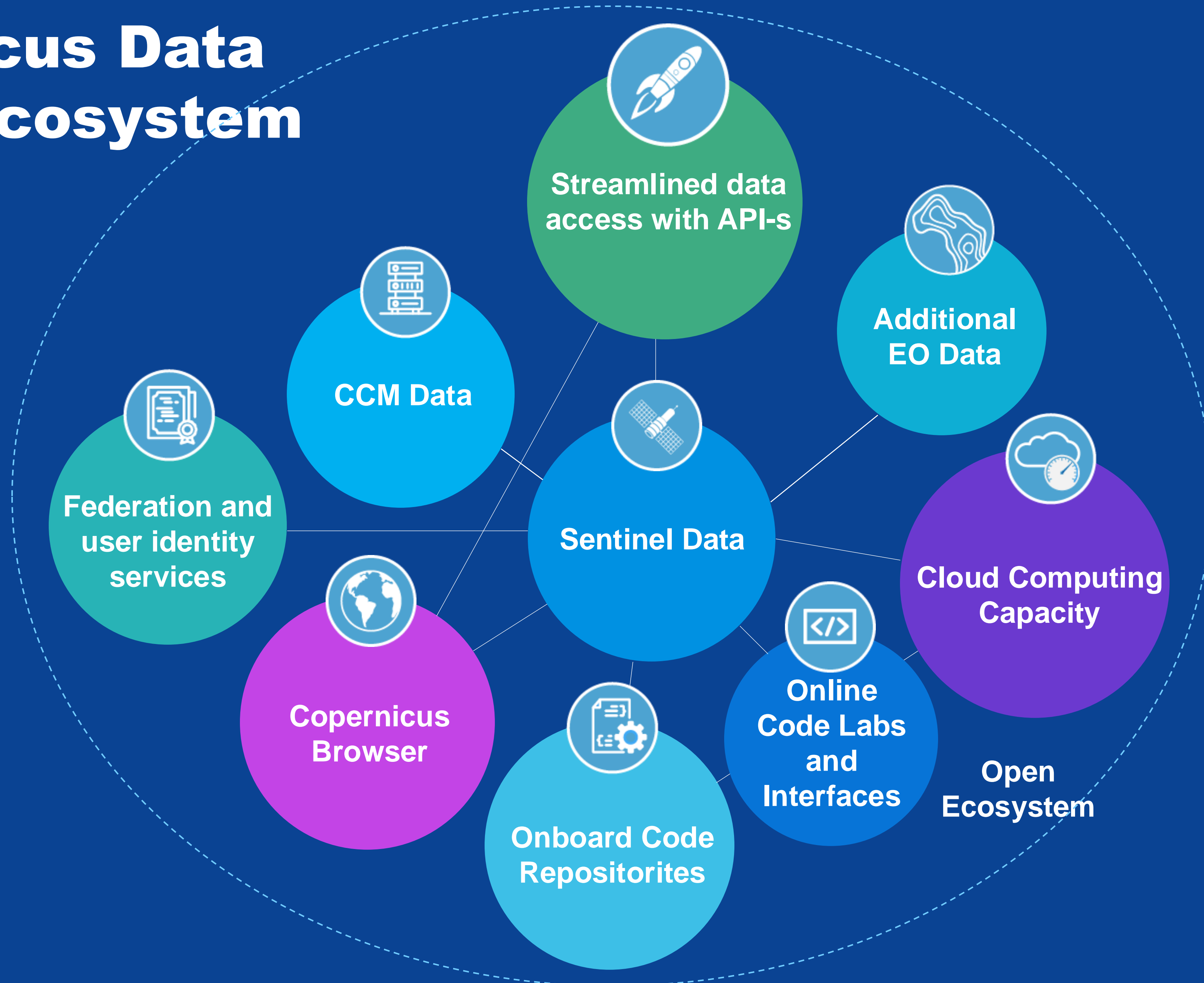


# The Service Team

Powered by leading EU cloud and EO service providers.

The logo for T Systems, featuring a stylized magenta 'T' followed by the word 'Systems' in a matching magenta serif font.The logo for CloudFerro, consisting of an orange and black geometric icon followed by the text 'CloudFerro' in a bold, sans-serif font.The logo for SINERGISE, featuring a green circular icon with white curved lines and the word 'SINERGISE' in a green, sans-serif font.The logo for vito remote sensing, featuring a black stylized bird icon followed by the word 'vito' in a bold, black sans-serif font, with 'remote sensing' in a smaller font below it.The logo for DLR, featuring a black geometric icon followed by the letters 'DLR' in a bold, black sans-serif font.The logo for ACRI-ST, featuring a blue and green geometric icon followed by the text 'ACRI-ST' in a bold, black sans-serif font.The logo for RHEA GROUP, featuring a blue stylized icon followed by the text 'RHEA GROUP' in a bold, black sans-serif font.

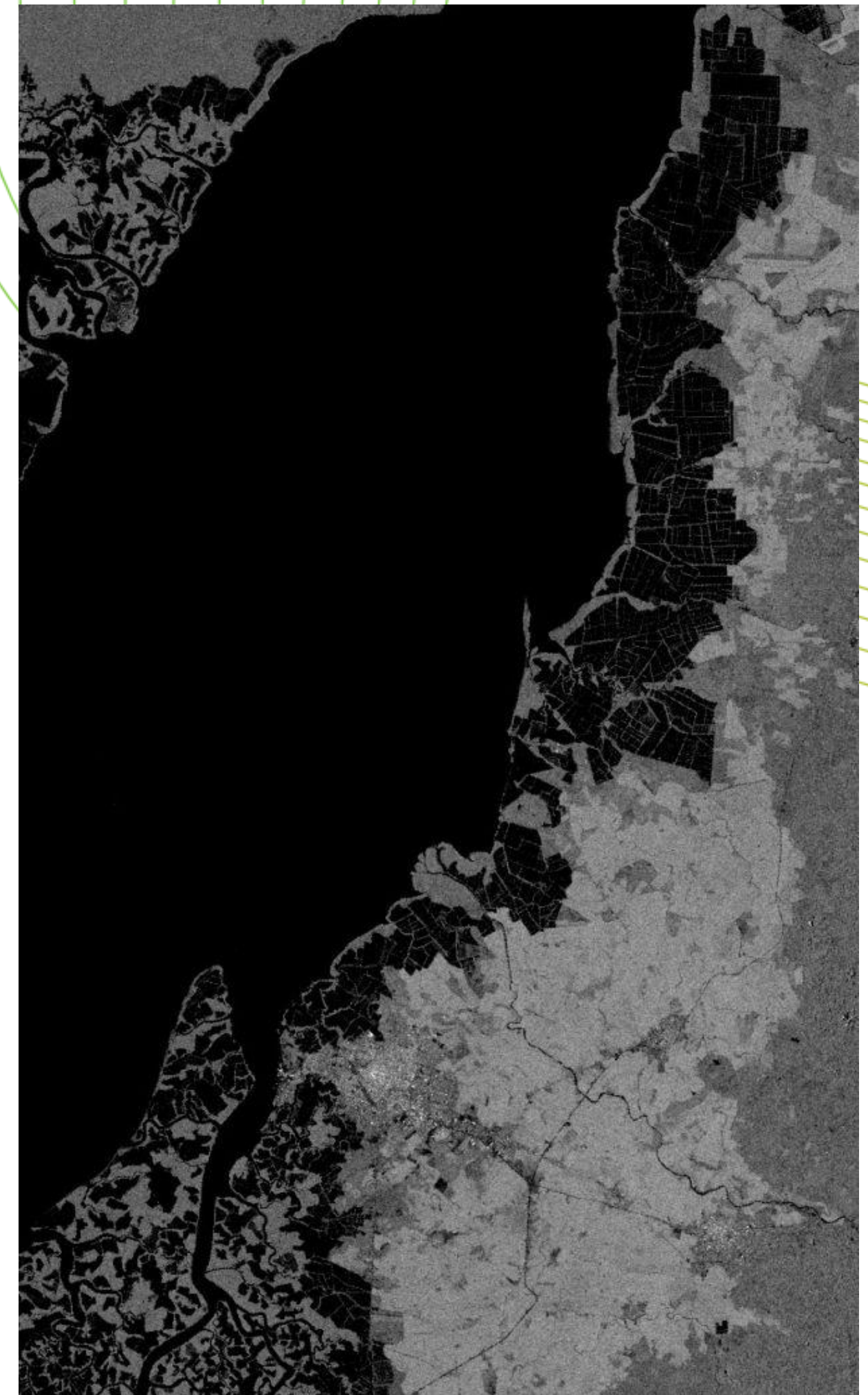
# Copernicus Data Space Ecosystem





# Data Access and Processing APIs

- **Streamlined access** (Sentinel Hub, OpenEO)
  - Catalogue APIs → List of datasets
  - Visualisation (OGC) → Map
  - Process → Raster product
  - Statistical → Calculation results
  - **Bring Your Own Data** → Your own data compatible with the online datasets
- **openEO** → Format and language-independent scalable processing



Sentinel-1 VH decibel gamma, Banana plantations near Machala, Ecuador

# Copernicus Browser



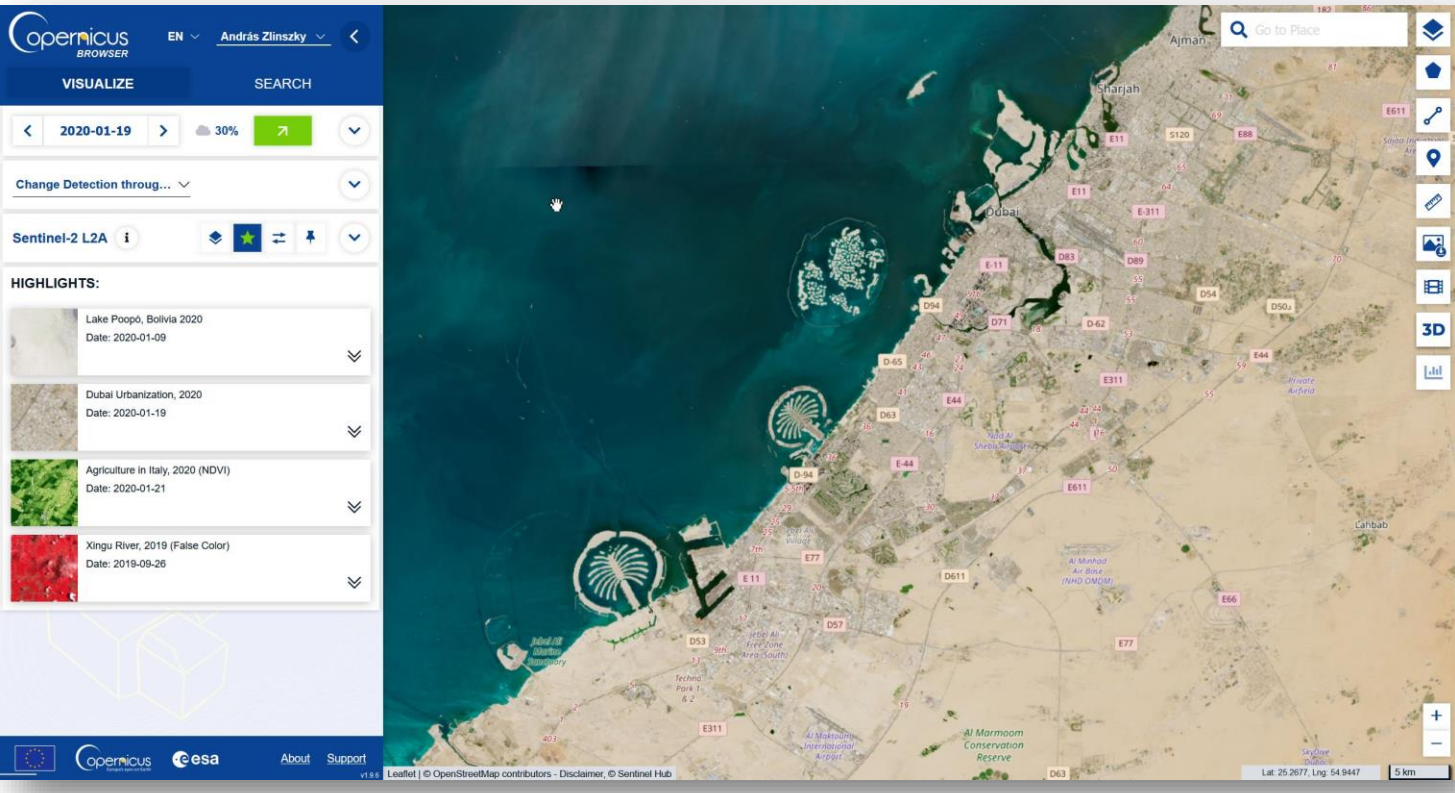
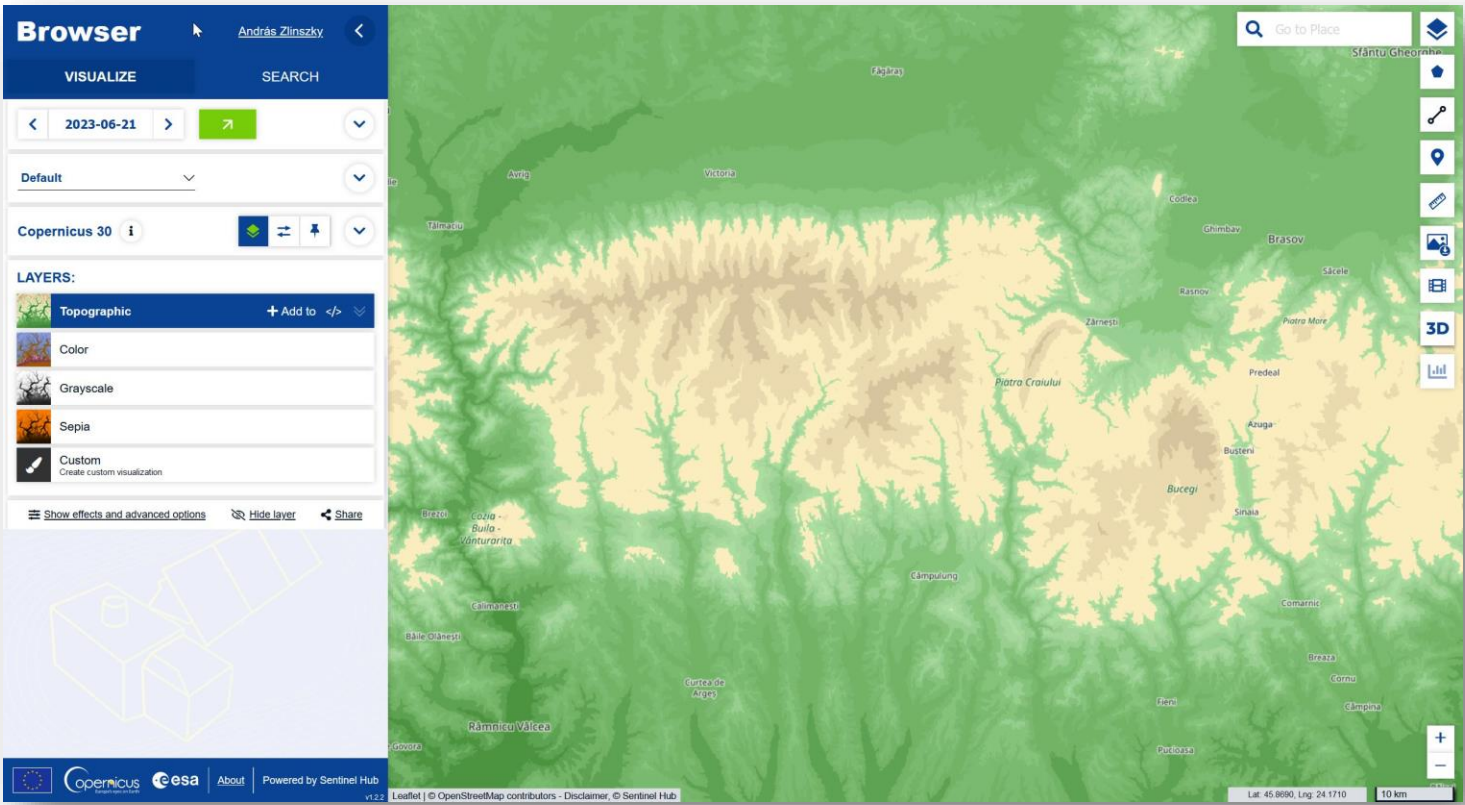
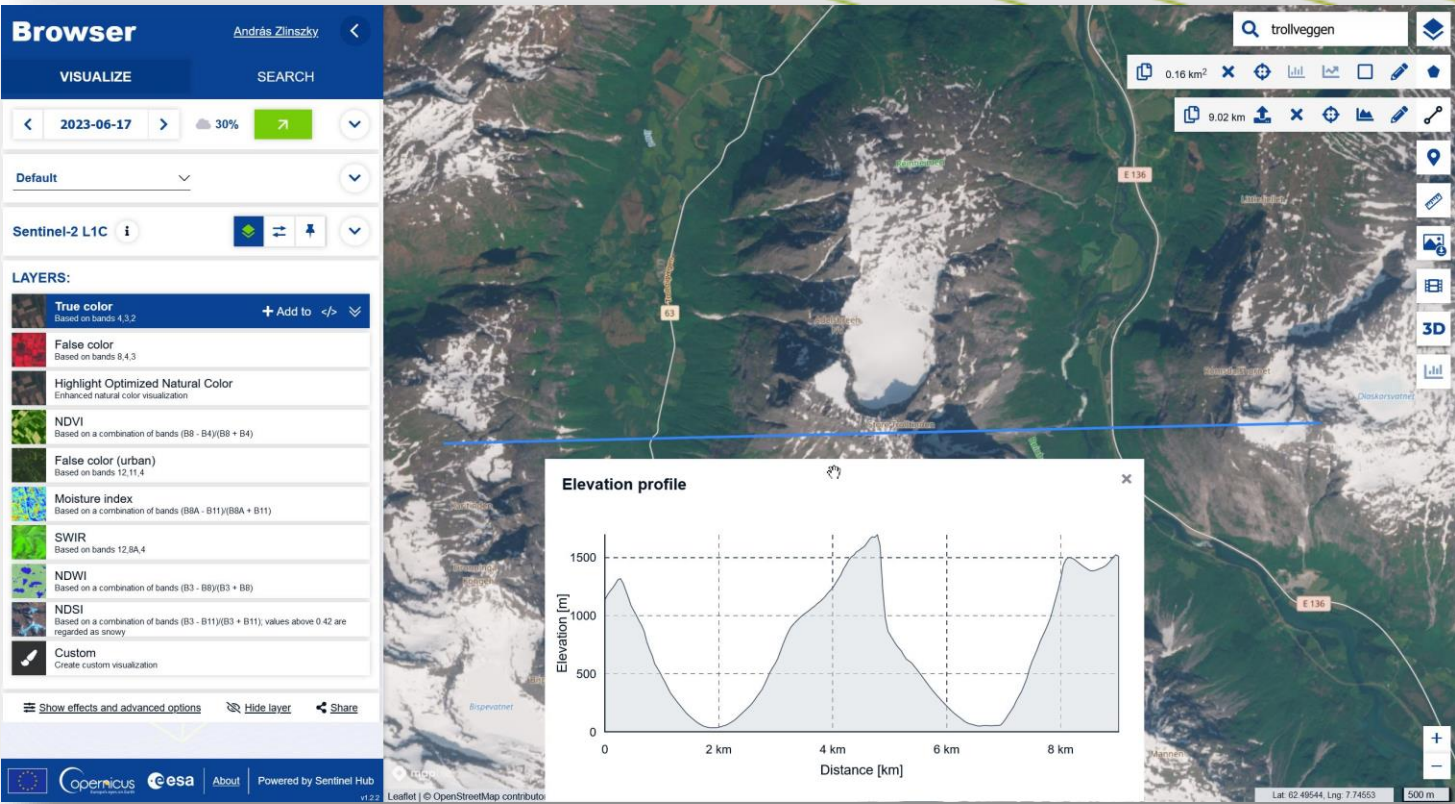
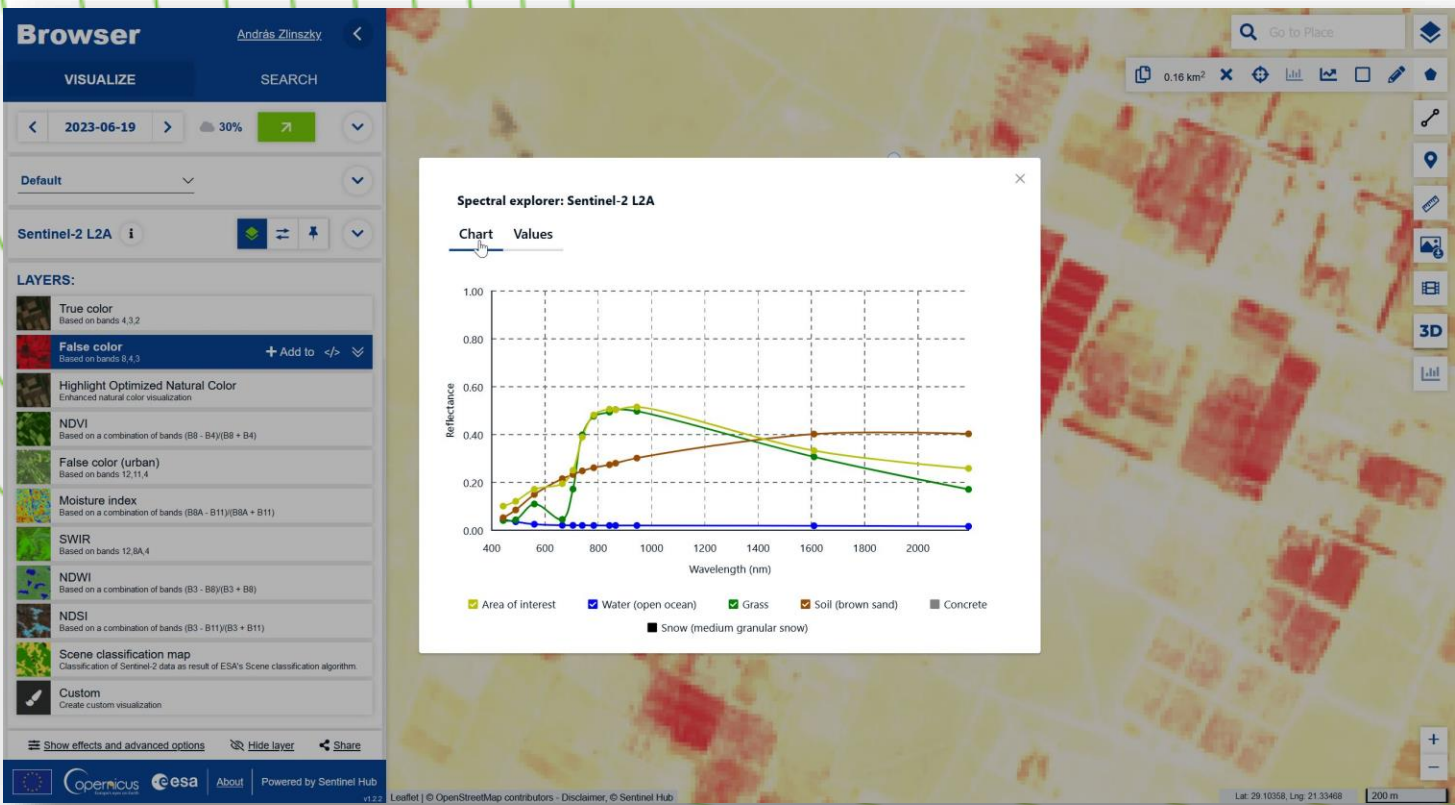
PROGRAMME OF  
THE EUROPEAN UNION





# Copernicus Browser

- Free to use web application to interactively Search, Visualise, Analyse, Compare and Download satellite imagery
- Central hub for accessing, exploring and utilizing Copernicus Data Space Ecosystem data
- <https://browser.dataspace.copernicus.eu/>



PROGRAM  
THE EURO



# Copernicus Browser Live Demo



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**Thank you for your  
attention!**



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