# Copernicus Browser

**GeoDev Meetup 20.11.2024**
**Žiga Černigoj, Sinergise**

browser.dataspace.copernicus.eu

# Agenda

- Problem
- Goals
- Requirements
- Tools
- Solution
- Resources
- Questions

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# Problem

- Large amounts of publicly available Earth Observation data
    - o Mitigate the impact of climate change on people
    - o Assess damage after natural disasters, etc.
- Getting and using the data > Risky and time consuming

- **How to make it easier to work with satellite data for experienced users?**
- **How to bring the field of Earth Observation closer to the average user?**

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# Goals

- Make **searching** through satellite data easier.

- Make **visualization** of the satellite data easier.

- Make **simple analysis** of the satellite data easier.

# Requirements

- User should be able to:

  o Use the app in web browser

  o Interact with the map and go to the chosen location via panning the map or with searching for a place

  o Select a source of data and a visualization of the data

  o Select a time for which the visualization should be displayed

  o Compare data from different visualizations or times.

  o See a timelapse of the visualization.

  o Execute simple statistics for the selected visualization, area and timespan.

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# Requirements

- Web application

- Interactive map

- Location search

- Selection of data sources

- Selection of predefined visualizations with descriptions

- Date and time selection

- Image comparison

- Timelapse

- Simple statistical charts

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# Tools

- [Vite](#)

- [React](#)

- [Leaflet.js](#)

- [Turf.js](#)

- [Various tools from Mapbox](#)

- A lot more ...

# Solution

**Copernicus Browser**

- Application: https://browser.dataspace.copernicus.eu

- Repository: https://github.com/eu-cdse/copernicus-browser

# Resources

Copernicus Data Space Ecosystem

- https://dataspace.copernicus.eu

- https://dashboard.dataspace.copernicus.eu/

- https://forum.dataspace.copernicus.eu/

- https://documentation.dataspace.copernicus.eu/

- https://github.com/eu-cdse

- https://www.youtube.com/@copernicusdataspaceecosystem

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# Questions

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Thank you for the attention!

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