



2. konferenca
GEO SLOVENIJA

Povezani v ekosistem prostora

9. december 2025 | Kristalna palača, Ljubljana

Kako se Slovenija vidi iz vesolja

Grega Milčinski, Sinergise Solutions, Planet Labs



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA NARAVNE VIRE IN PROSTOR
GEODETSKA UPRAVA REPUBLIKE SLOVENIJE



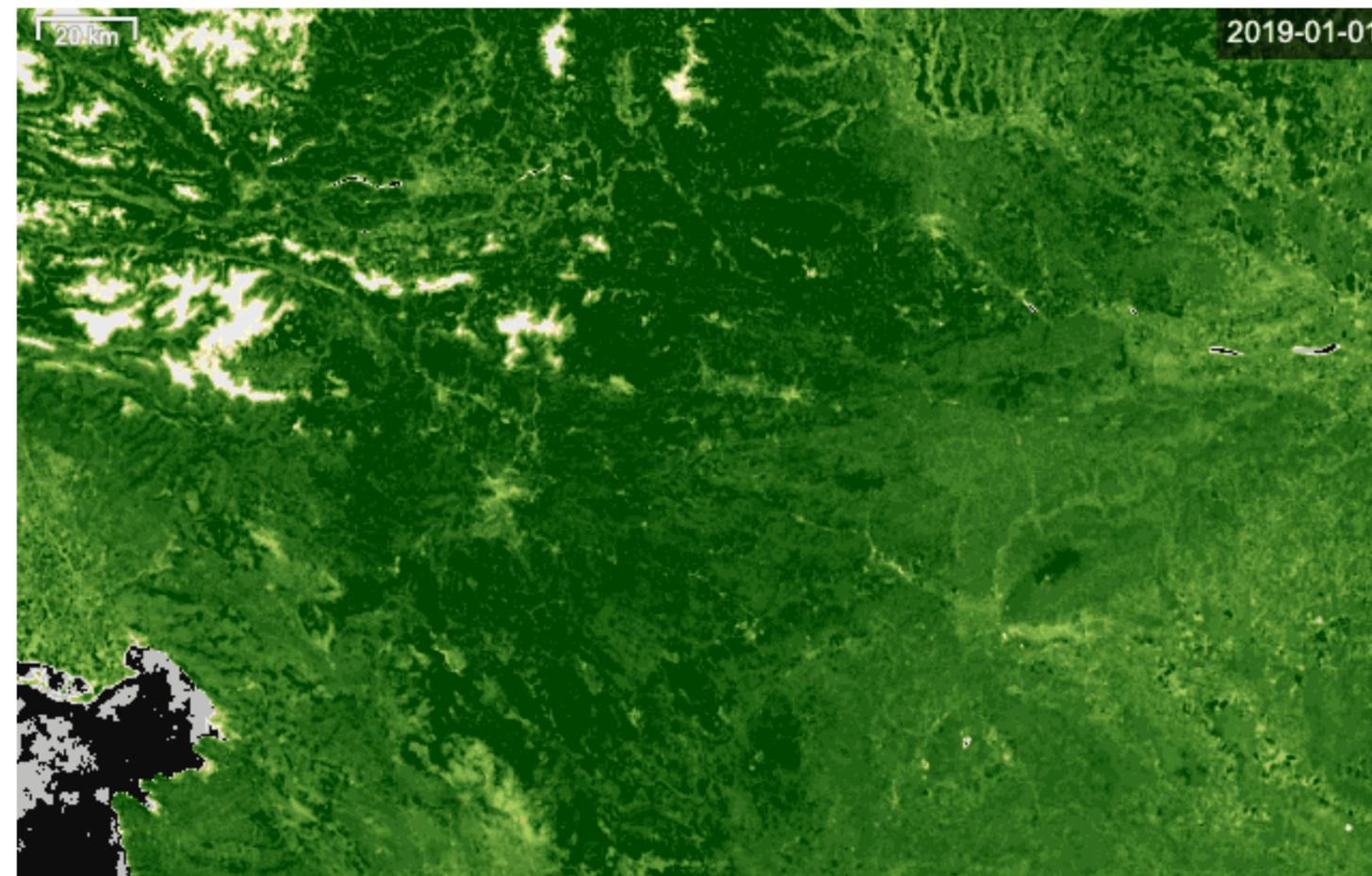
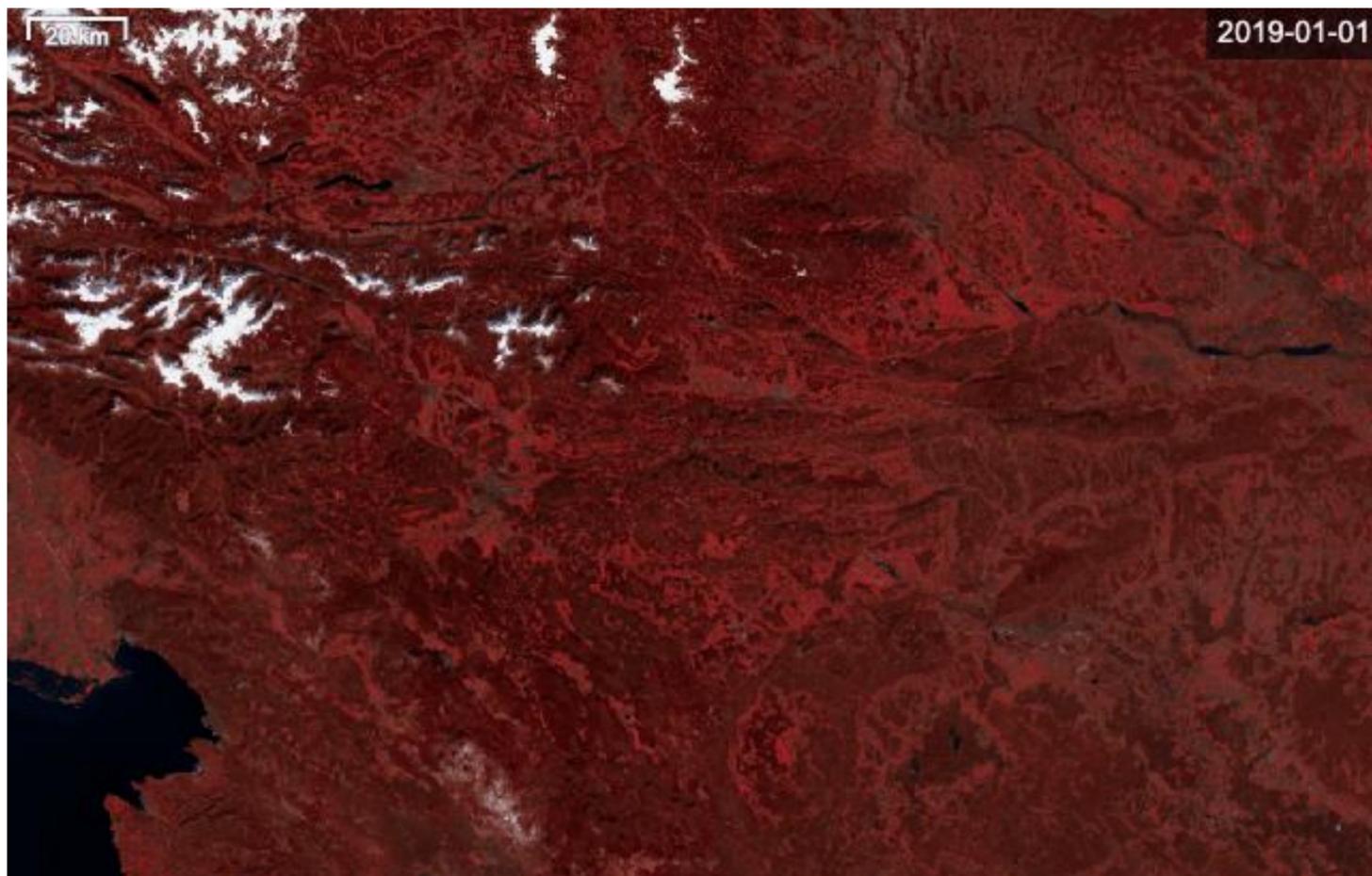
Financira
Evropska unija
NextGenerationEU



NAČRT ZA
OKREVANJE
IN ODPORNOST



The screenshot displays the Copernicus Browser interface. At the top left, the Copernicus logo and 'BROWSER' text are visible, along with language settings (EN) and a 'Login' button. A 'VISUALISE' button and a search bar are also present. The main content area shows a satellite image of a mountainous region with snow patches, dated 2019-01-01. A scale bar indicates 20 km. The interface includes several control panels: 'DATE: SINGLE' with a date selector (YYYY-MM-DD) and a 'Show latest date' button; 'CONFIGURATION:' with a 'Default' dropdown; and 'DATA COLLECTIONS:' with a list of Sentinel-2 products (Sentinel-2 L1C and Sentinel-2 L2A, the latter being selected). The bottom of the interface features logos for the European Union, Copernicus, and ESA, along with 'About' and 'Support' links. The bottom right corner shows technical details like 'v1.27.1', 'Leaflet | © OpenStreetMap contributors - Disclaimer', 'Rijeka', 'Lat: 46.093, Long: 13.334', and '20 km'.





The screenshot displays the Planet Insights Platform interface. At the top, the navigation bar includes 'Insights Platform' and 'Analyze'. Below this, a secondary navigation bar offers 'Discover', 'Visualize', and 'Compare' options. The main content area is split into a left sidebar and a central image viewer. The sidebar, titled 'Data source: Analysis-ready PlanetScope', contains a date selector set to '2025-11-30 UTC' and a 'TIMESPAN' button. Below the date, there are icons for visualization settings and a share icon. A list of visualization options is shown, with 'NDVI' selected and highlighted in blue. Other options include 'True Color', 'True color with cloud mask', 'Cloud Mask Clasification', 'False Color', and 'Custom'. The central image viewer shows a satellite image of agricultural fields with a '500 m' scale bar in the top left and the date 'April 2, 2025' in the top right. The 'planet.' logo is visible in the bottom right corner of the image. A vertical toolbar on the right side of the image viewer contains icons for home, location, measurement, and other functions. At the bottom of the interface, a status bar shows copyright information for Planet Labs PBC, Mapbox, and OpenStreetMap, along with coordinates (46.63205° N, 16.29393° E), a search icon, a zoom level of 14, a resolution of 6.54 m/px, and a 500 m scale bar.

Copernicus BROWSER EN Grega Milcinski

VISUALISE SEARCH

SH DASHBOARD WORKSPACE

2022-07-22 30%

CONFIGURATION:
Default

Sentinel-2 L2A

LAYERS: ← Back

Add to Compare Add to Pins Add to Timelapse

Composite Index Custom

OpenEO process graph Custom script

Use additional datasets (advanced)

```
1 // VERSION=3
2 // QuickFire V1.0.0 by Pierre Markuse
  (https://twitter.com/Pierre_Markuse)
3 // Made for use in the Sentinel Hub EO
  Browser (https://apps.sentinel-hub.com/
  eo-browser/?)
4 // CC BY 4.0 International (https://
  creativecommons.org/licenses/by/4.0/)
5
6 function setup() {
7   return {
8     input: ["B01","B02","B03","B04","B08",
  "B8A","B11","B12","SCL", "dataMask"],
9     output: { bands: 4 }
  }
```

Show effects and advanced options Hide layer Share

Go to Place

3D

Lat: 45.84199, Lng: 13.54151 1 km



Copernicus BROWSER EN Grega Milcinski Go to Place

VISUALISE SEARCH

[SH DASHBOARD](#) [WORKSPACE](#)

2023-08-12

CONFIGURATION:
[NEW] DTSI Skysat

DTSI | Skysat

LAYERS:

- False Colour
- kNDVI
- NDVI
- NDWI
- True Colour** + Add to </>
- Custom Create custom visualisation

Show effects and advanced options Hide layer Share

Leaflet | © OpenStreetMap contributors - Disclaimer, © Sentinel Hub Lat: 46.335445, Lng: 14.847475 50 m

Earth Observation

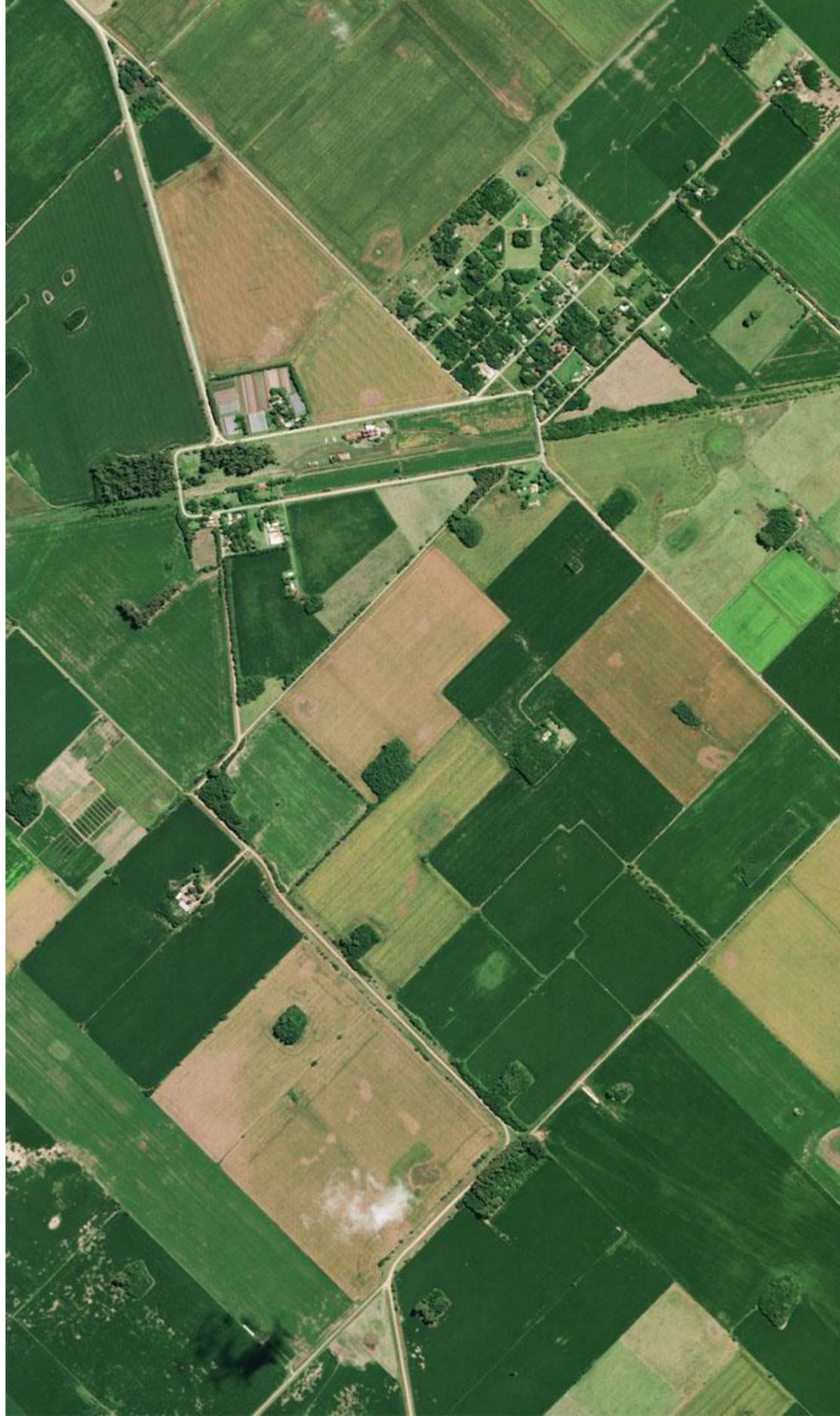
an objective and systematic insight of our planet





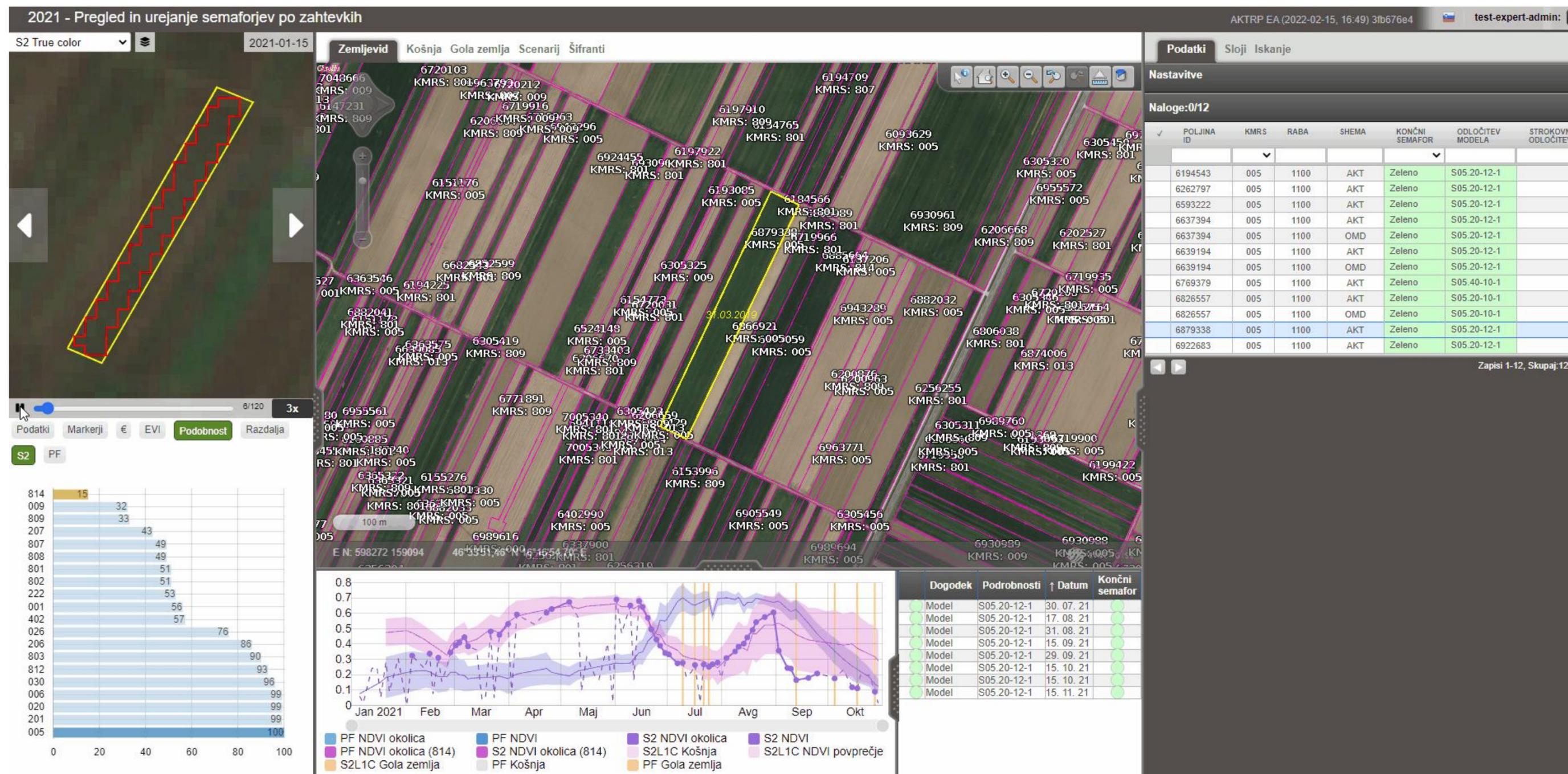
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Beyond looking - using

Agriculture subsidies – Common Agriculture Policy



Agriculture subsidies – Common Agriculture Policy

REPUBLICA SLOVENIJA

APLIKACIJA SOPOTNIK KMG_MID: 100

Zadnja posodobitev rezultatov: 1. 11. 2022

Stanje semaforja po poljinah (9/9)

Iskanje

Filtriraj po stanju semaforja:

! (1) ? (1) ✓ (7) ✕ (0)

Glavni posevek	Neprezirtni posevek	Prezirtni posevek
7 GERK 1 - trajno travinje - 50 ar - ZA LAČICO	7 GERK 6 - trave - 30 ar - ZA LAČICO	7 GERK 2 - trajno travinje - 3 ha 38 ar - OGRADA
2	2	2
7 GERK 2 - trajno travinje - 1 ha 4 ar - LOG ZGORNJI	7 GERK 2 - trajno travinje - 60 ar - OTOČEK	7 GERK 2 - trajno travinje - 33 ar - LOG V SODRAŽICI
2	2	2
7 GERK 5 - trave - 60 ar - OGRADA	7 GERK 5 - trave - 33 ar - ZA LAČICO	
2	2	

KOT ZA LAČICO ZA LAČICO ZA LAČICO OTOČEK

20 m

Leaflet | © Ortofoto (GURS)

Podrobnosti poljine Opažanja Komunikacija (5)

14. 11. 2022 7.14.43

pod cesto

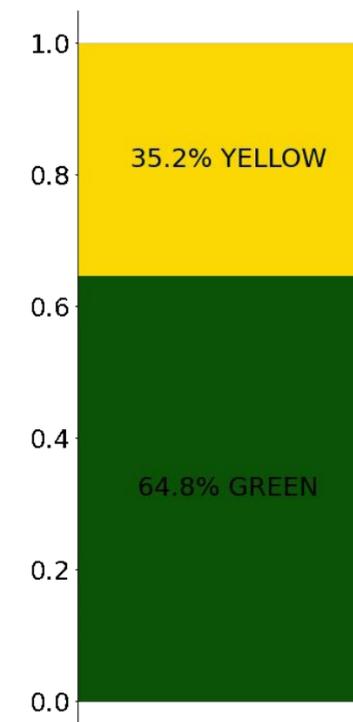
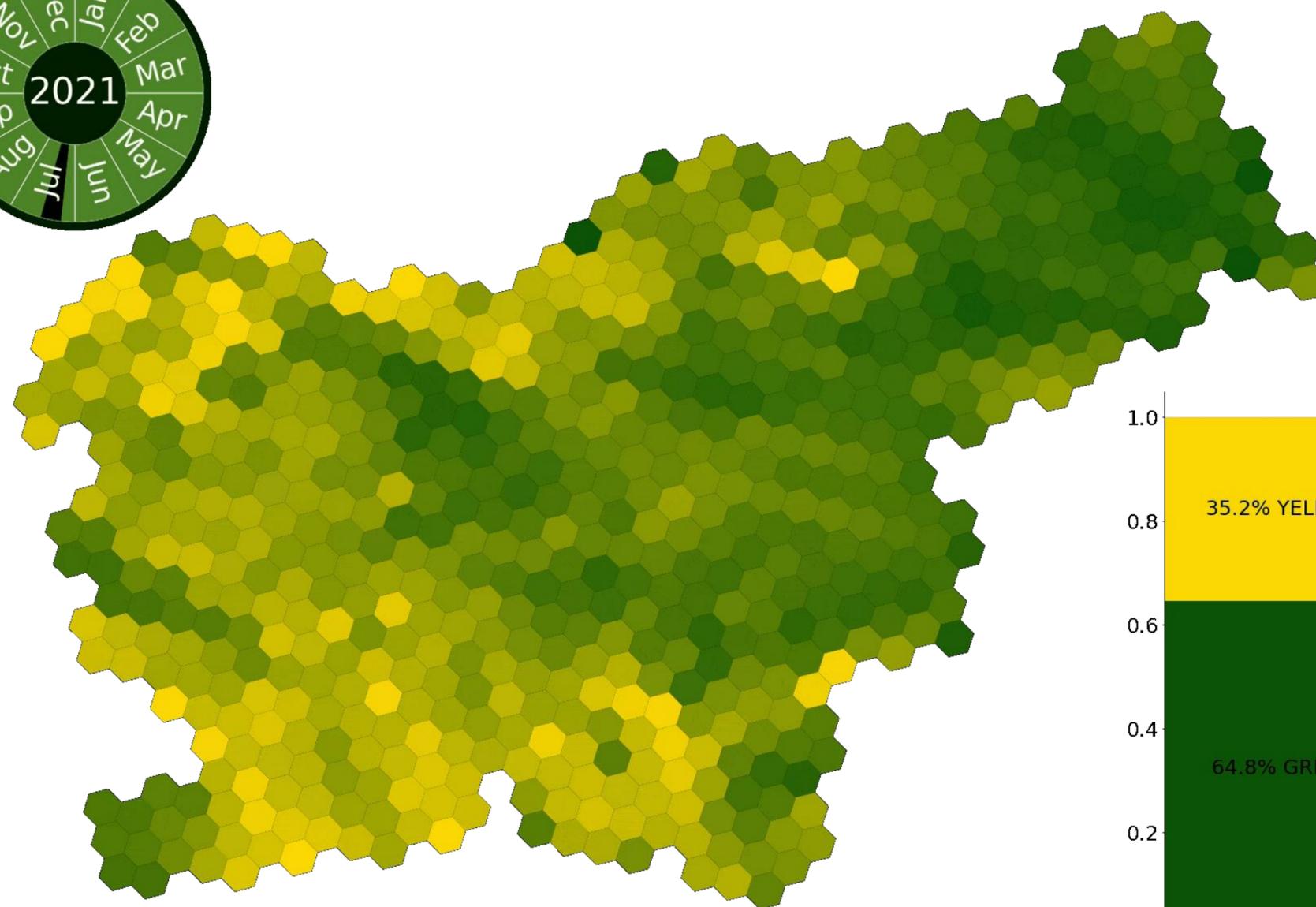
pod ces...

Dodaj novo sporočilo

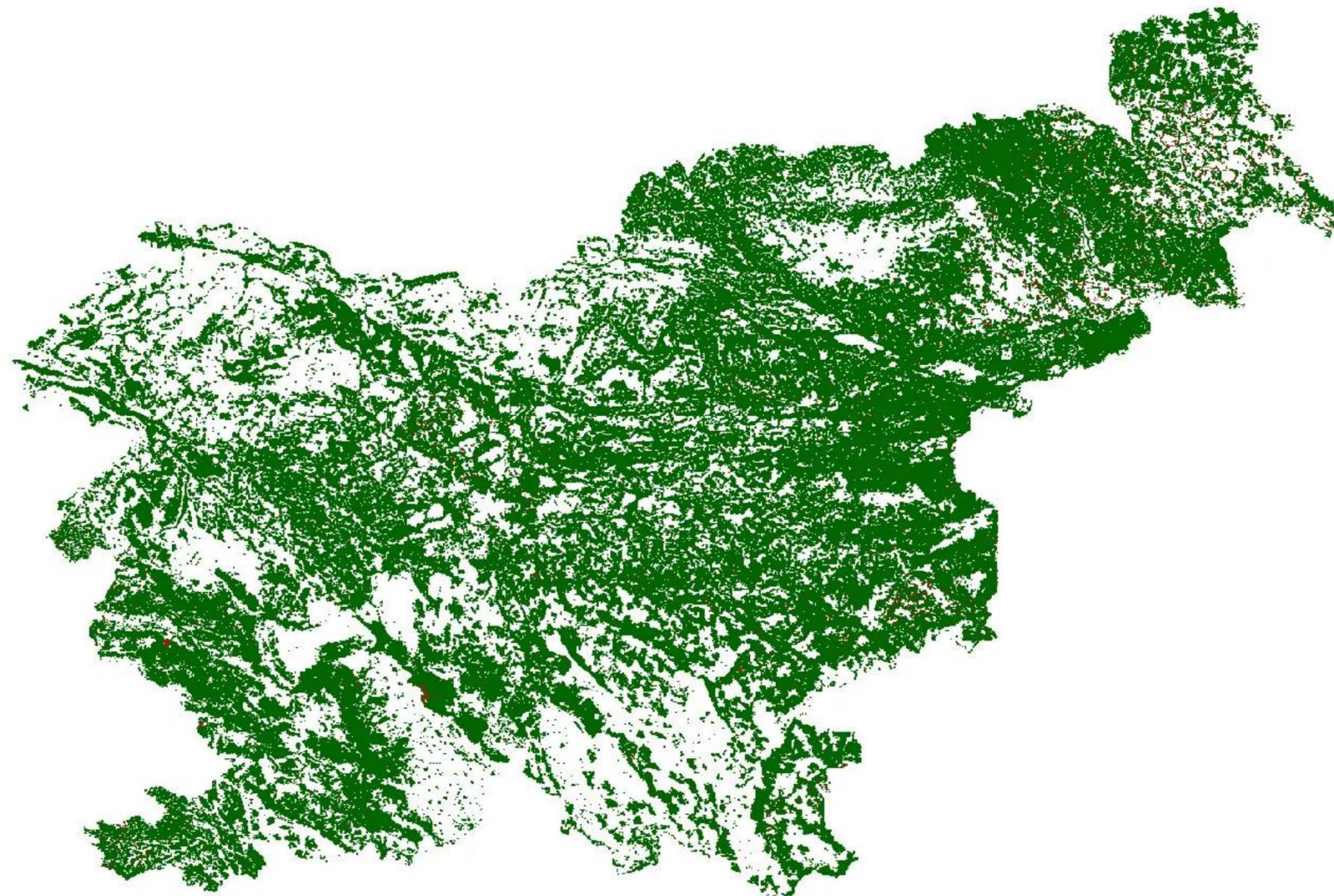
Sentinel2 - True color 4. 2. 2022

© 2022 Agencija Republike Slovenije za kmetijske trge in razvoj podeželja SINERGISE v1.4.0 (00/11/2022, 14:11:16)

Agriculture subsidies – Common Agriculture Policy



Pasture monitoring

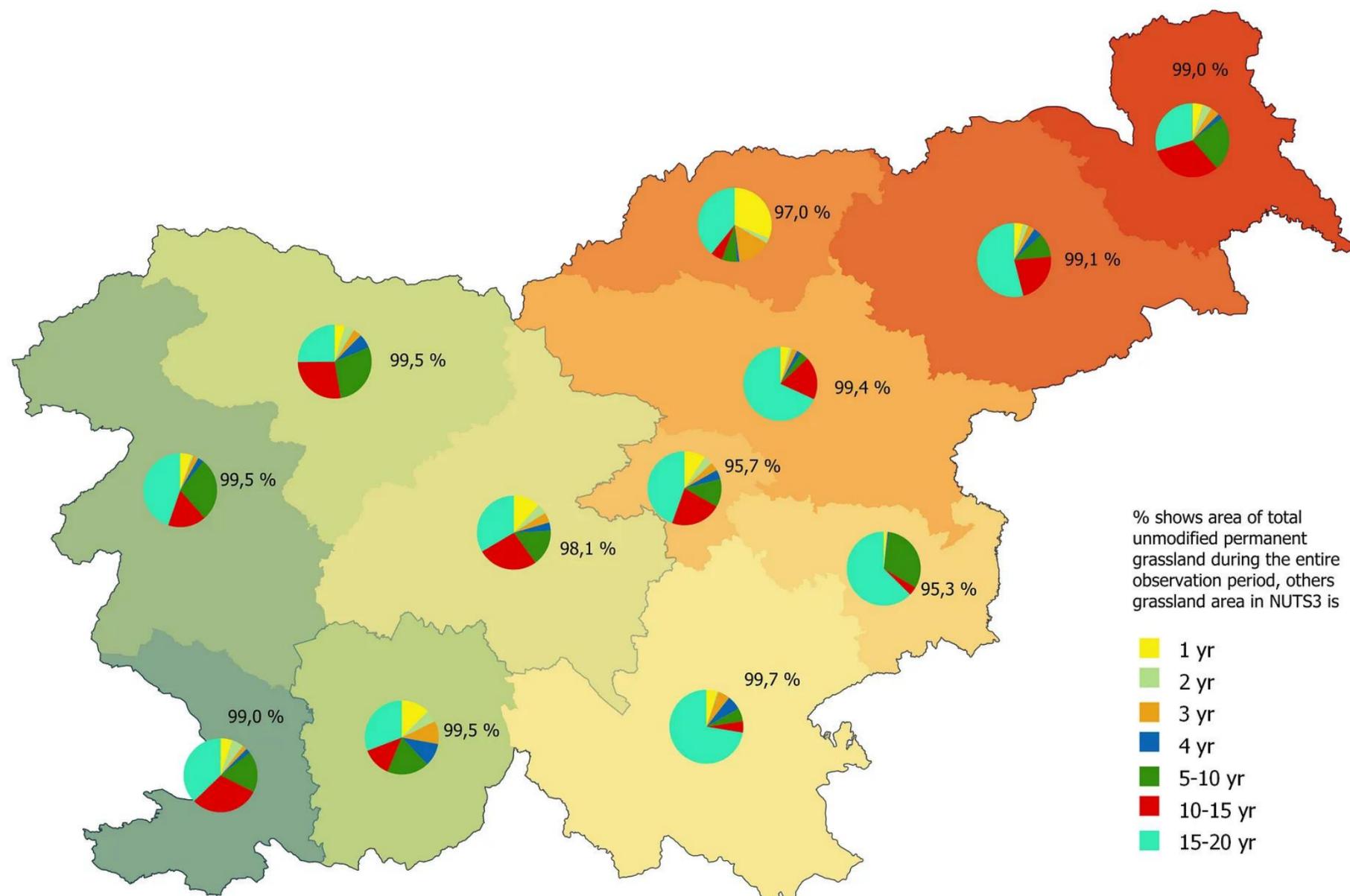


Map of permanent and non-permanent grasslands of Slovenia, based on the 5-year marker of bare soil presence.

The content of this blog post is a result of the GEOS-2021 project from the Statistical Office of the Republic of Slovenia (SURS) (JN430–44/2021), and funded by Eurostat.

<https://medium.com/sentinel-hub/detecting-the-age-of-grassland-from-the-sky-a2d3e4b28aaa>

Pasture monitoring



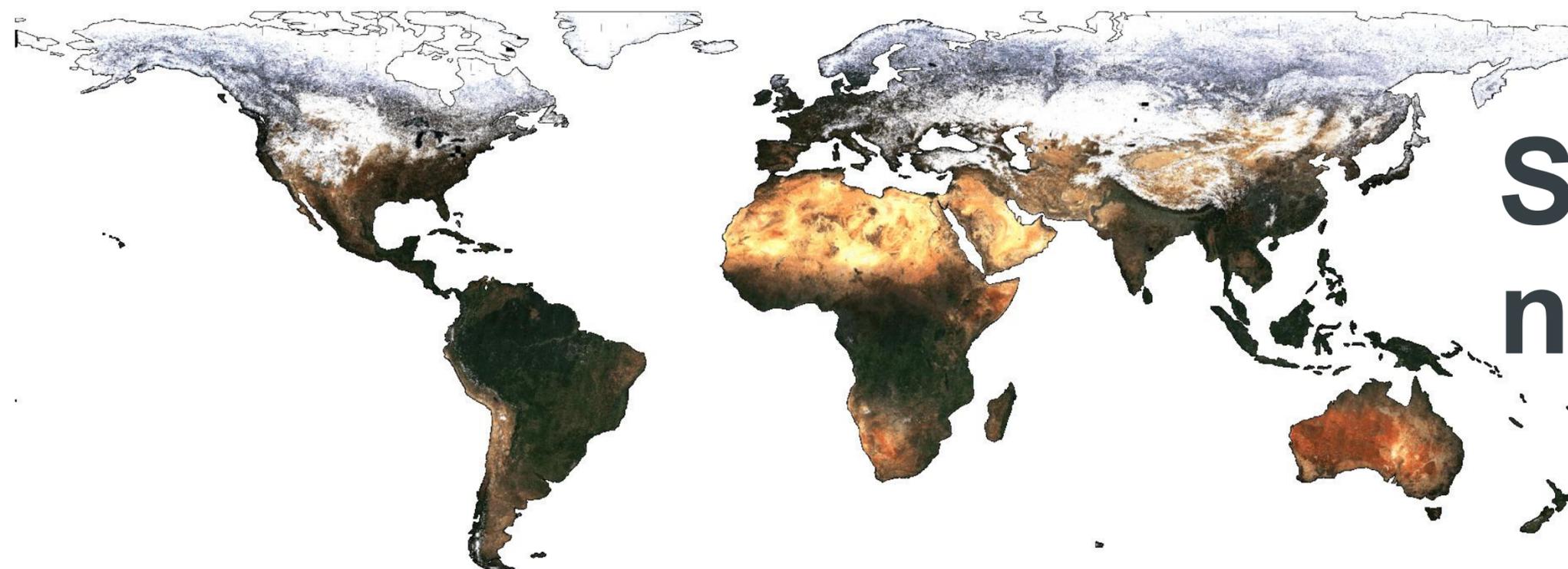
Built-up area detection

The screenshot displays the Copernicus Sentinel Hub browser interface. The main map shows a satellite view of a rural area with a blue overlay indicating detected built-up areas. The interface includes a code editor with the following JavaScript script:

```
1 //VERSION=3
2 function setup() {
3   return {
4     input: ["B01", "B02", "B03",
5     "dataMask"],
6     output: { bands: 4 }
7   };
8 }
9 function evaluatePixel(sample) {
10  return [2.5 * sample.B01, 2.5 * sample.
11  B02, 2.5 * sample.B03, sample.dataMask];
12 }
```

The interface also includes a layers panel with options for 'Composite', 'Index', and 'Custom script'. The 'Custom script' section is active, showing the script and a 'Refresh Evalsript' button. The map shows various locations including Ljubija, Loke pri Mozirju, Prihova, Nazarje, Žlavor, Spodnja Rečica, Nizka, Trnovec, Lačja Vas, Kokarje, Zgornje Pobrežje, Spodnje Pobrežje, Varpolje, and Dobrovlje pri Mozirju. The map is powered by Sentinel Hub and uses MapTiler for visualization.

<https://medium.com/sentinel-hub/detecting-the-age-of-grassland-from-the-sky-a2d3e4b28aaa>



Space knows no borders



Copernicus

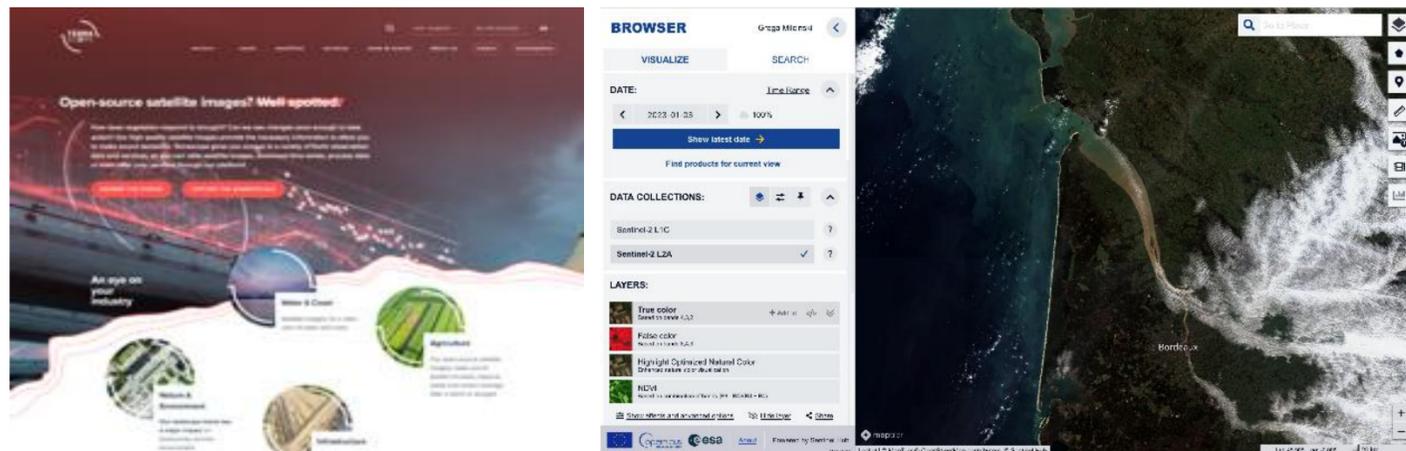
Copernicus Data Space Ecosystem



dataspace.copernicus.eu

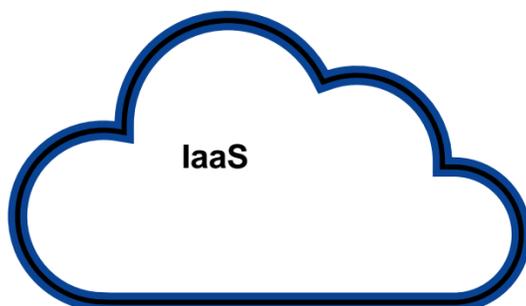


dataspace.copernicus.eu

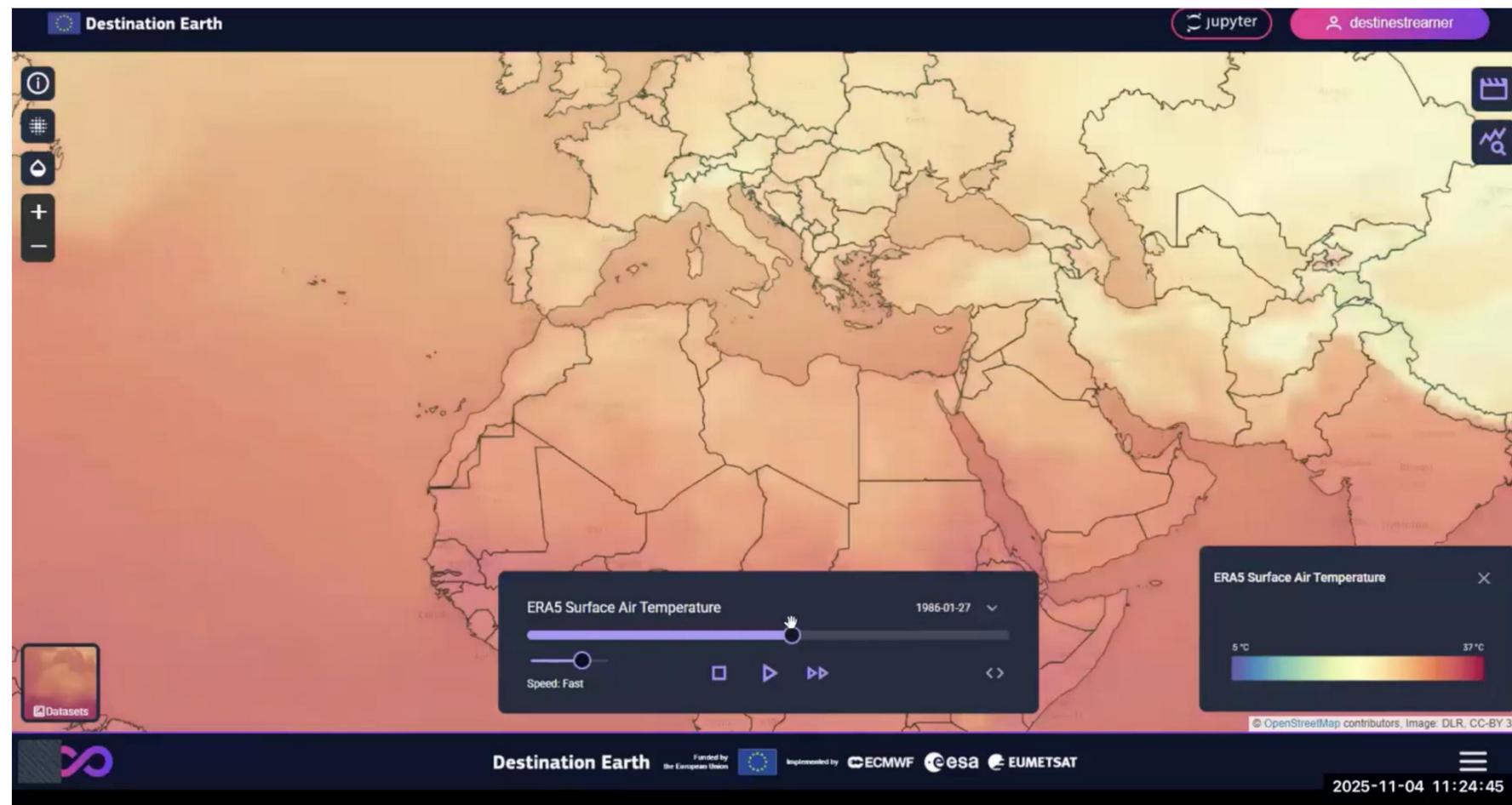


jupyterlab

on-demand



European Earth Observation Platform

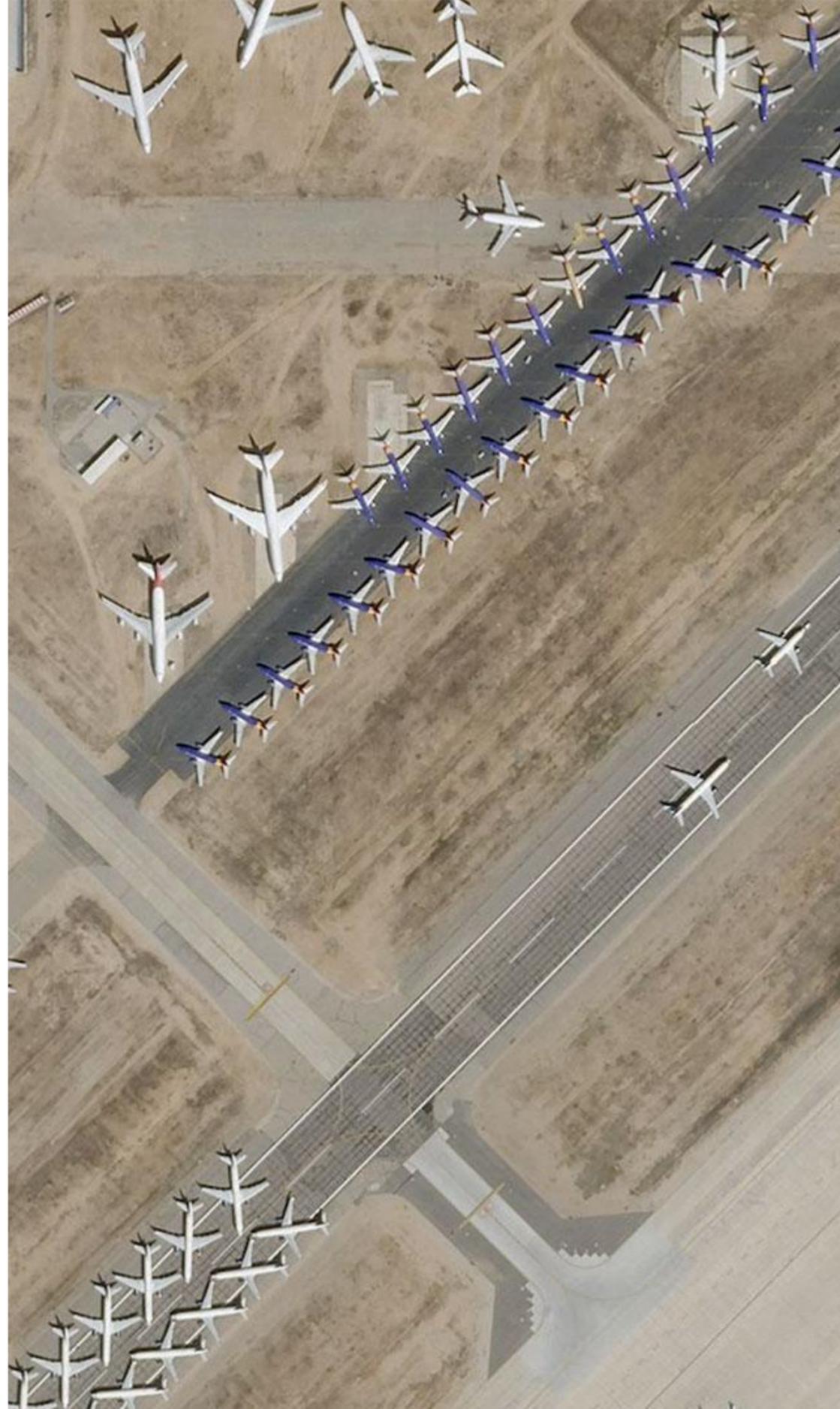


Destination Earth – climate data



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Road ahead



Copernicus BROWSER EN Grega Milcinski Go to Place

VISUALISE SEARCH

[SH DASHBOARD](#) [WORKSPACE](#)

2023-08-12

CONFIGURATION:
[NEW] DTSI Skysat

DTSI | Skysat

LAYERS:

- False Colour
- kNDVI
- NDVI
- NDWI
- True Colour** + Add to </>
- Custom Create custom visualisation

Show effects and advanced options Hide layer Share

Leaflet | © OpenStreetMap contributors - Disclaimer, © Sentinel Hub Lat: 46.335445, Lng: 14.847475 50 m

Disaster management



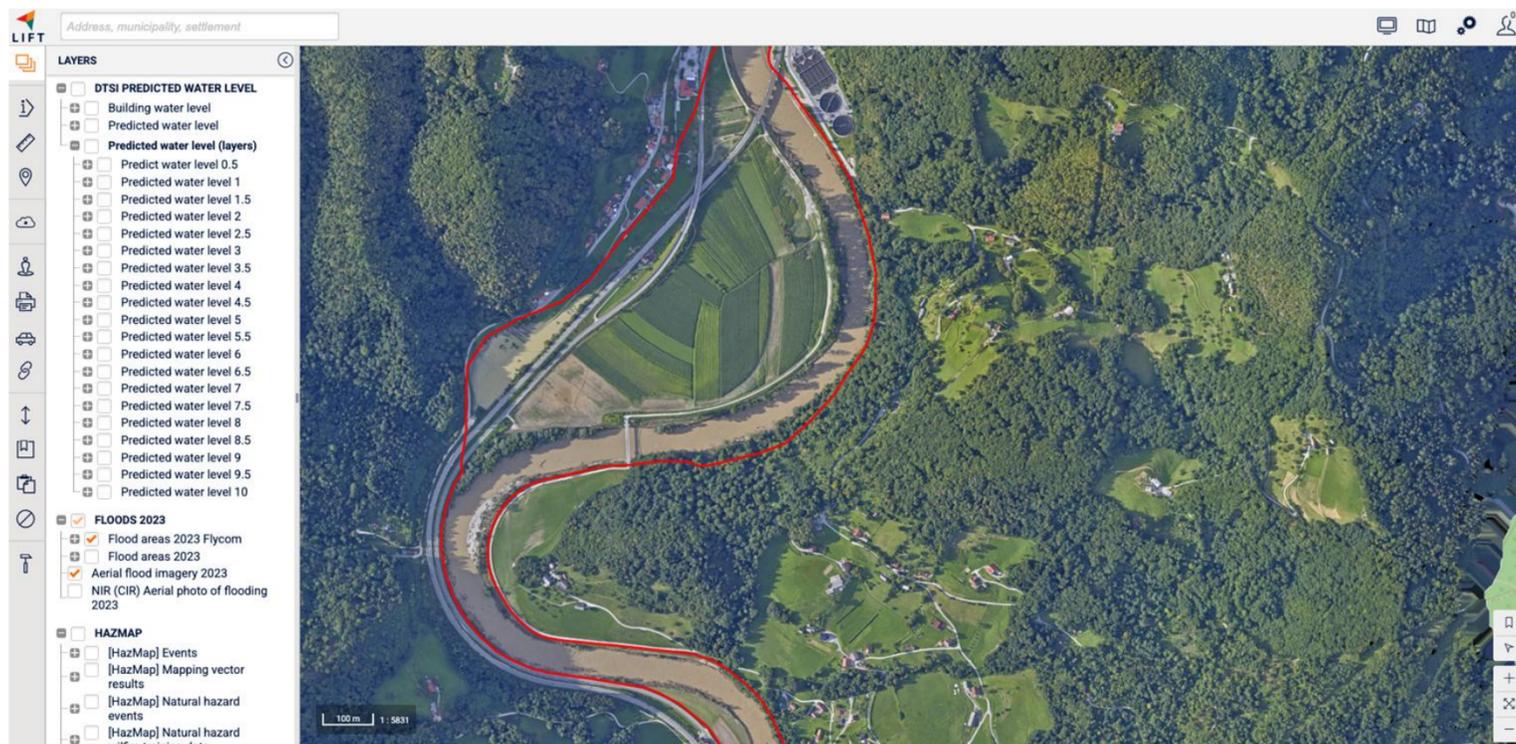
Understand, monitor and anticipate



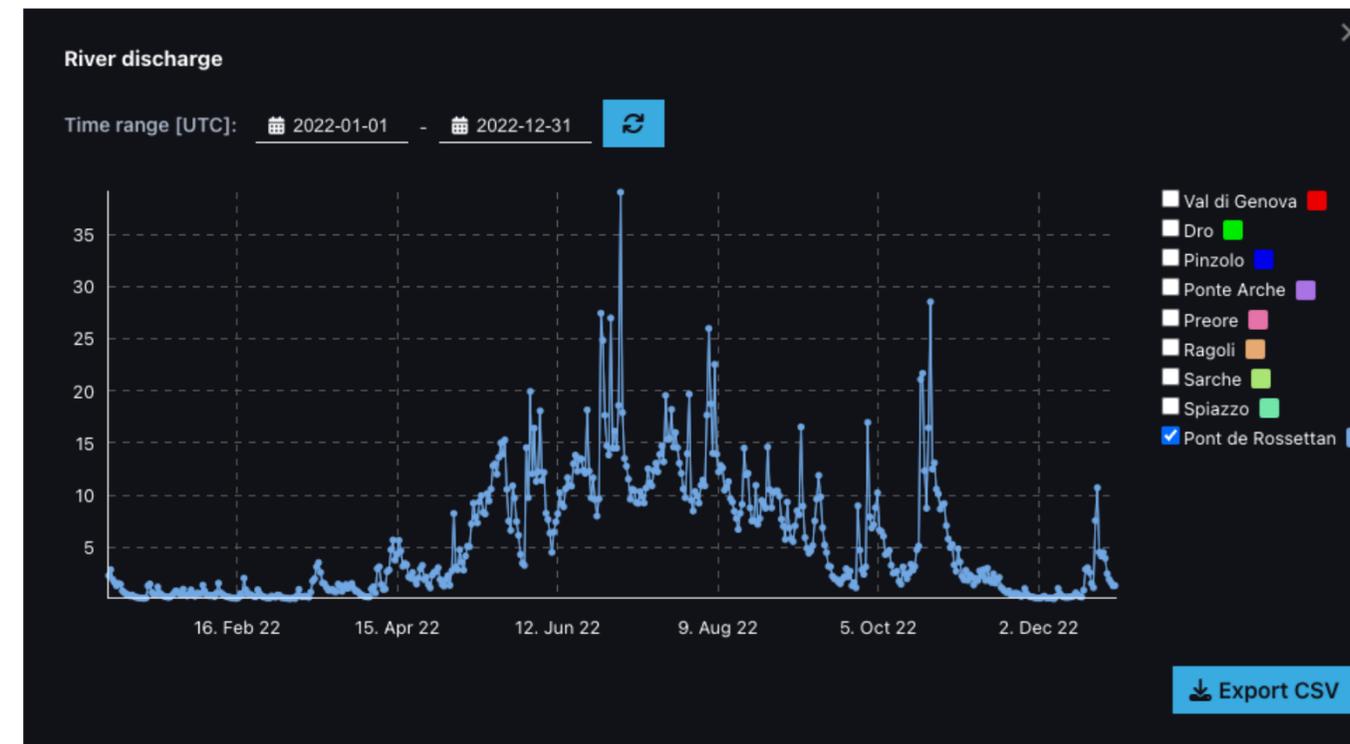
Observing

A *virtual replica* of the real-world, to reproduce natural phenomena by integrating *observations* from a variety of sources

Imagery and delineation of floods



River gauge data



Understand, monitor and anticipate



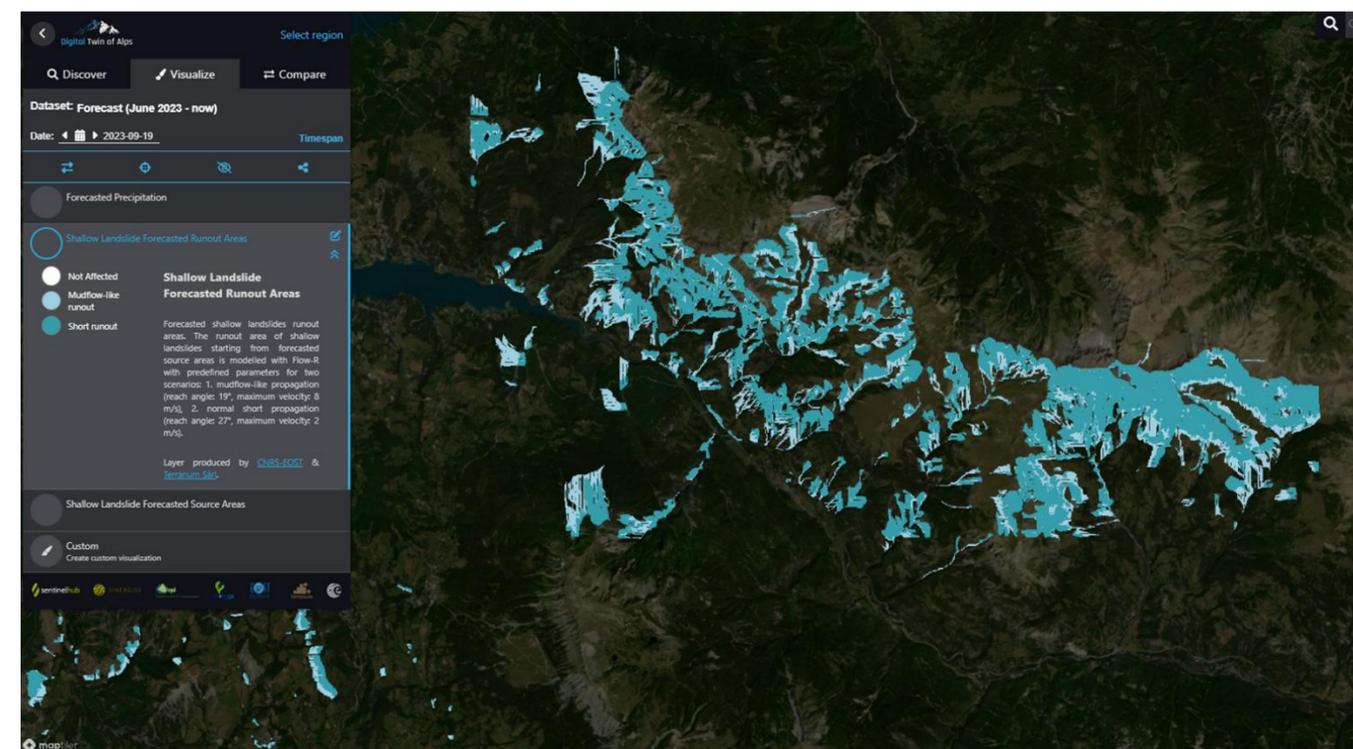
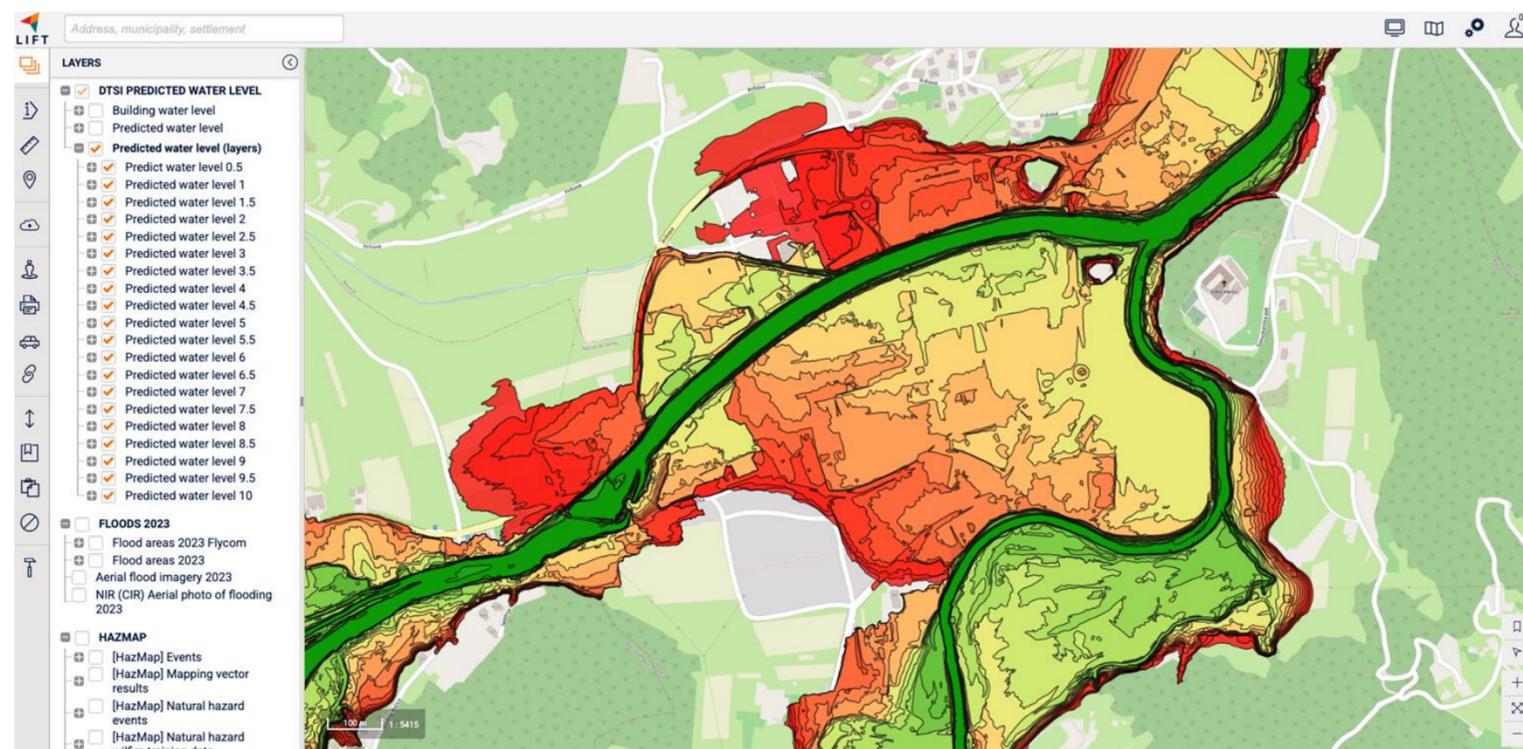
Observing

Modelling

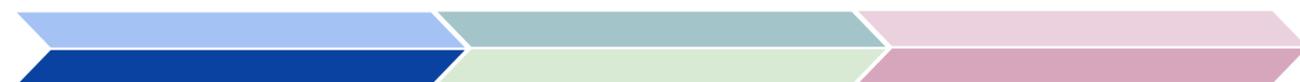
A virtual replica of the real-world, to model interconnected physical processes and understand their drivers

Predicted water levels

Modelled landslide runoff



Understand, monitor and anticipate



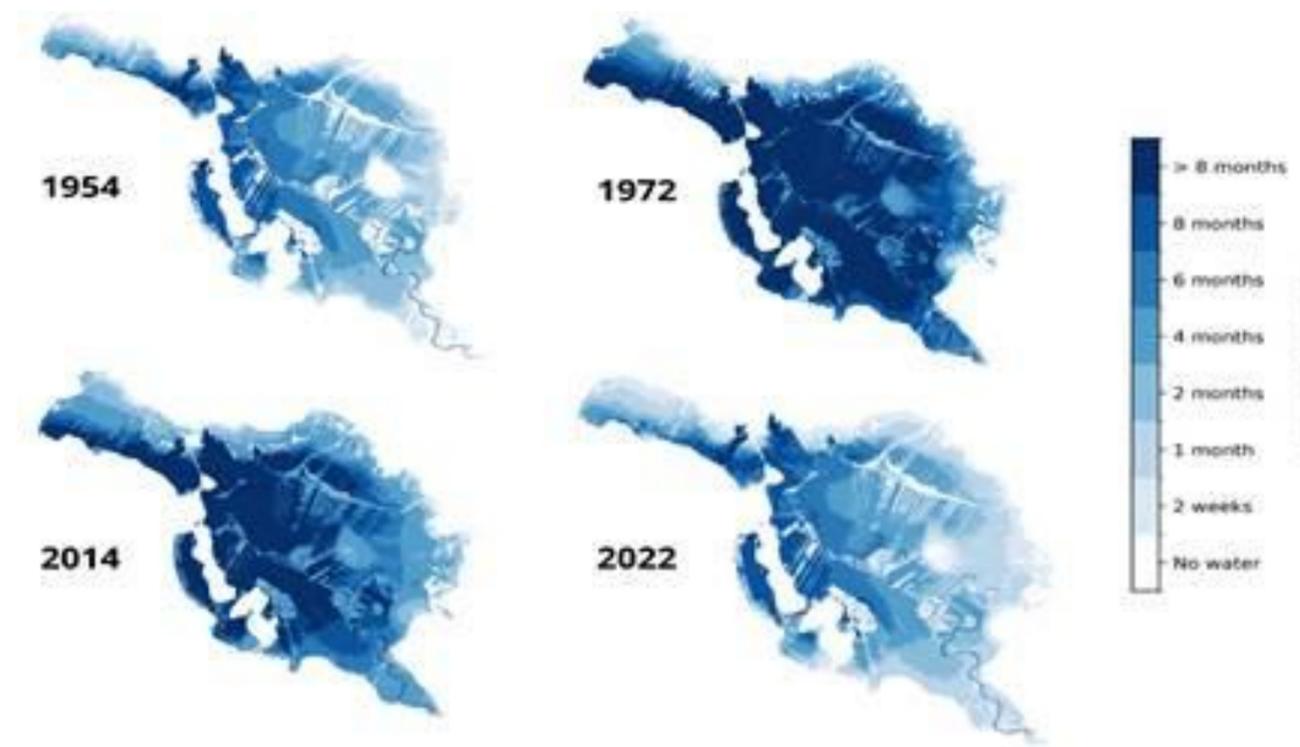
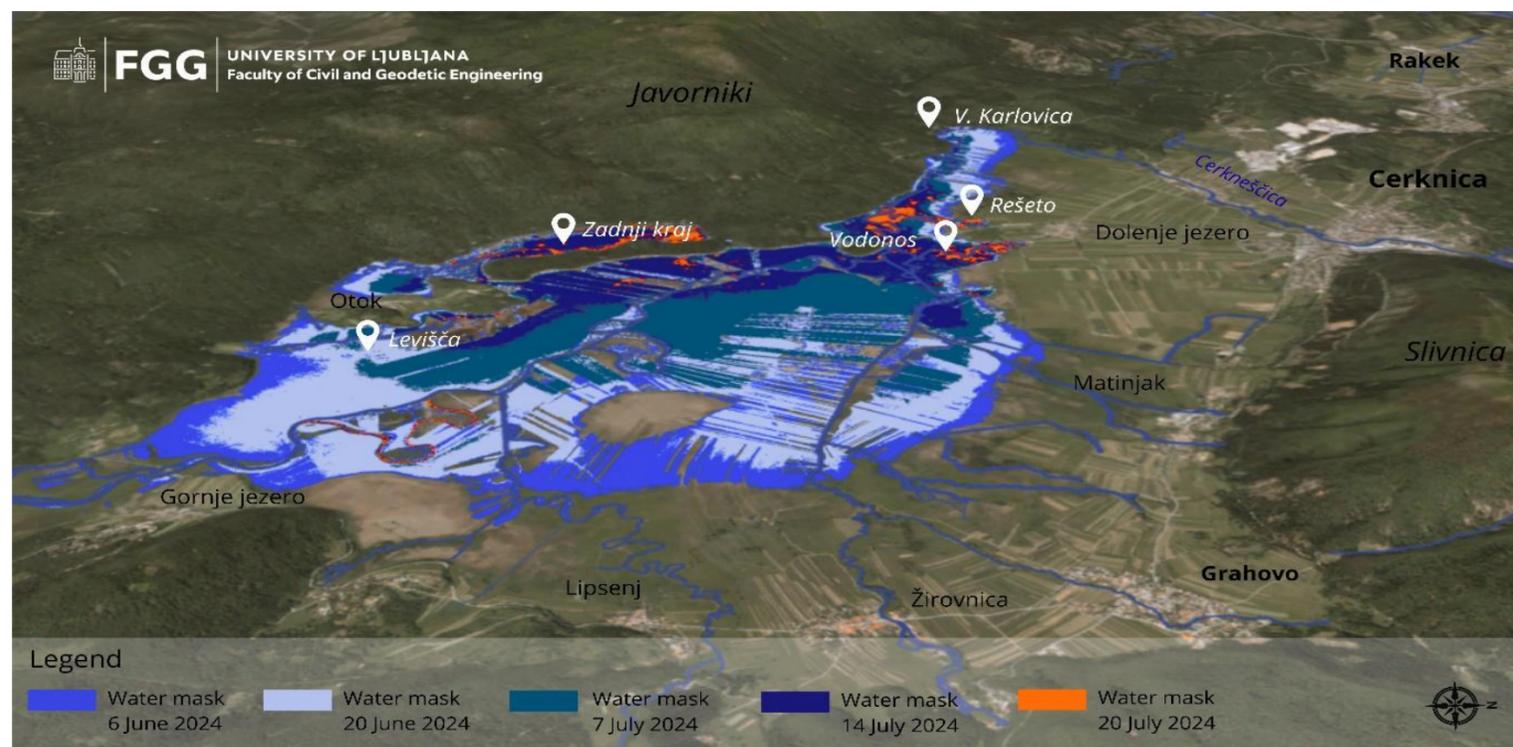
Observing

Modelling

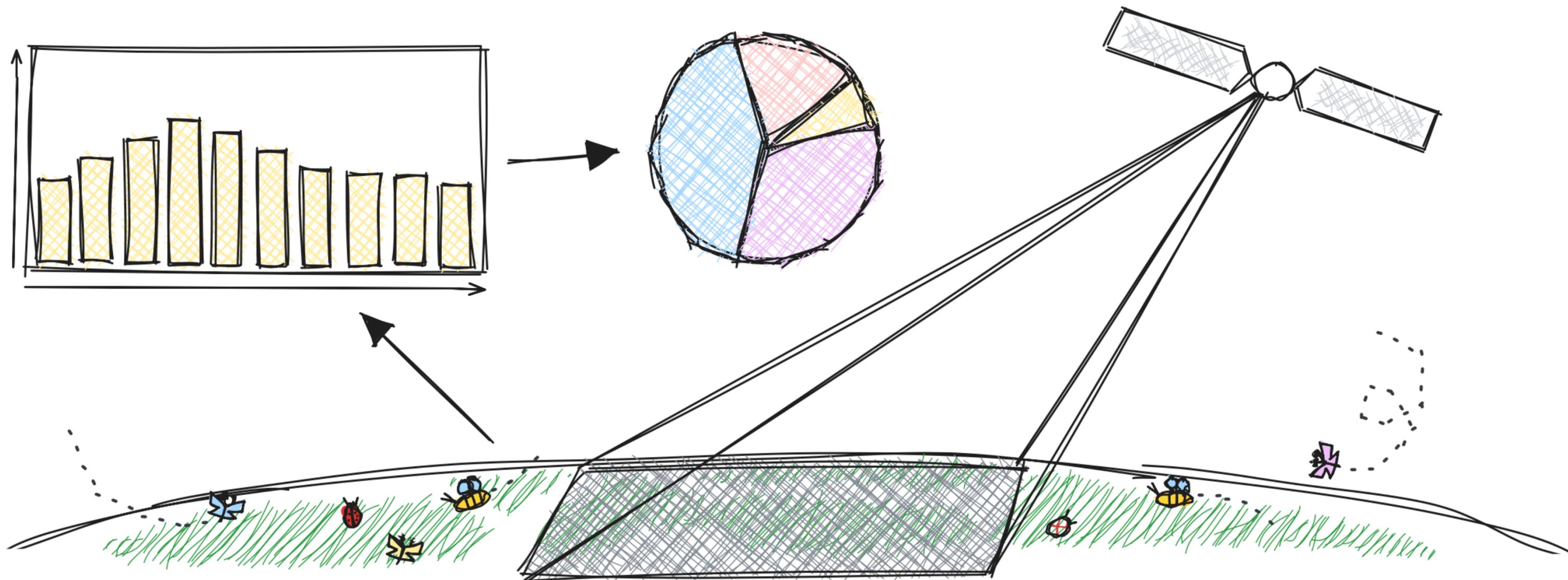
Simulating

A virtual replica of the real-world, to simulate events and explore potential scenarios for planning and prevention

POVEZANI V EKOSISTEM PROSTORA

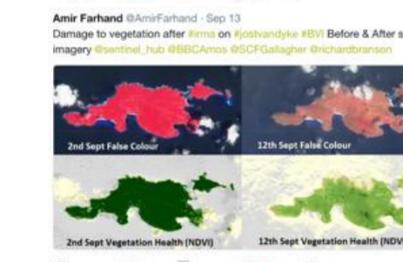
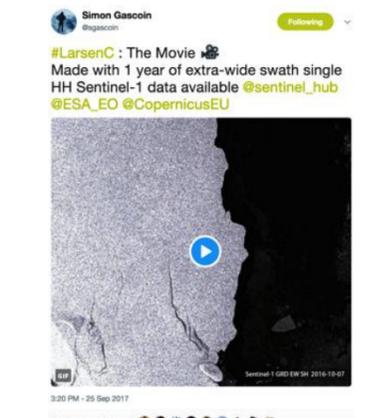
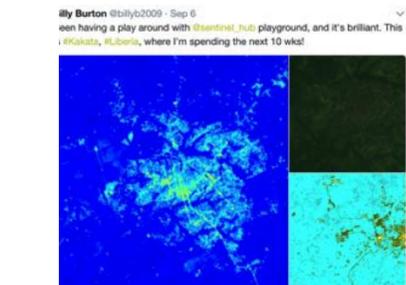
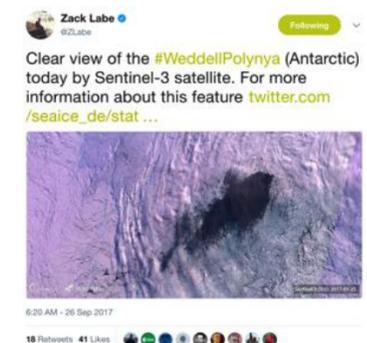
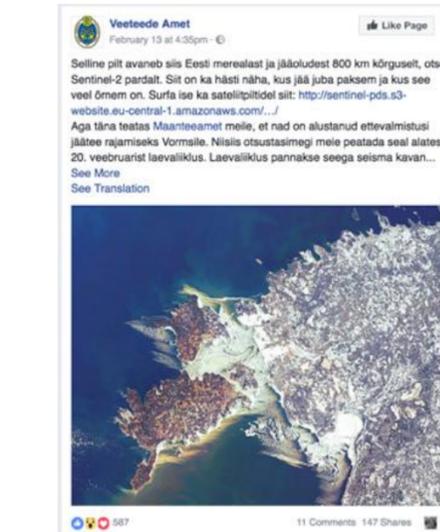
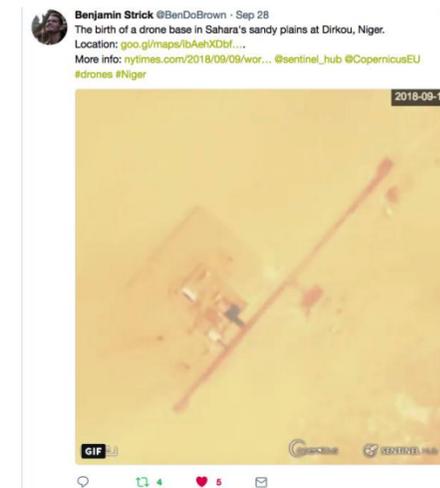
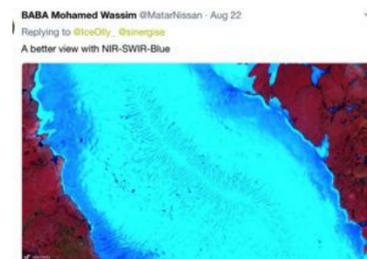


From imagery to ARD to policy insights



Disaster monitoring is one of numerous use-cases...

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Hvala za pozornost.



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