

BUILD NEW EO PRODUCTS WITH US!

Please contact us if interested in this data 

In case you would be interested in adding some value added services to the data, either for research or commercial purposes please contact us.

CONTACT US

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Discover more on www.geopedia.world



Funded by the Government of Slovenia through an ESA Contract under the PECS (Plan for European Cooperating States).



ABOUT SINERGISE

Sinergise is an IT company focused on the development of large-scale GIS applications. Our core business is supporting governments from across the world efficiently manage their agricultural and land administrative processes. Our solutions are being used by hundreds of thousands of users requiring cutting-edge technology for the effective distribution and management of spatial data.

Our R&D department is working on improving not just the technical means of data distribution but also on the applicability of earth-observation techniques in the process. We cooperate with several research projects focused on automatic satellite imagery processing, change detection, agriculture monitoring, disaster response and more.

With Sinergise, it is not just about the software, it is also about field knowledge and effort to do whatever is needed for a project to be successful. The growing number of satisfied clients testifies to the quality of our integrated approach.

Sinergise's clients across Europe:



SINERGISE



THE NEXT GENERATION SENTINEL DATA HUB

*Exploring satellite imagery
like you have never done before.*



Sentinel-2 brings land into focus (image: ESA/ATG medialab)

SENTINEL DATA - NEW OPPORTUNITIES AND NEW CHALLENGES

The Copernicus project's Sentinel satellites are revolutionizing earth observation (EO). Its free, full and open access to data with very short revisit times, high spatial resolution, and good spectral resolution are crucial for many applications. The portfolio of possible products is vast - use-cases of such a service range from plant health monitoring, land and water body change, flood monitoring, disaster mapping and more.

However the current gap between Sentinel source data and its end-users is large:

- ◆ ESA's complex Scientific Data Hub
- ◆ raster files are compressed with JPEG2000 (13 raster files for each product, one per spectral band)
- ◆ terabytes of data per week
- ◆ additional processing requirements

Tackling the data in an old-fashioned way - offering individual derivative products simply does not work anymore, the associated time and costs are large and defeat most of the major benefits of the Sentinel project.

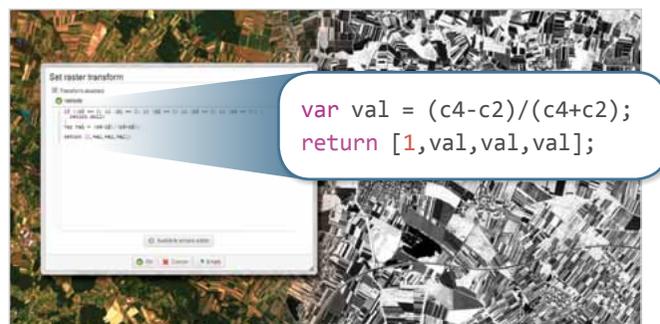
THE NEXT GENERATION OF THE EO PLATFORM

Our approach combines cloud-based GIS technologies, parallel processing and fully automated procedures. To support the fast developing EO field we provide tools directly to end-users. **On-the-fly processing and visualization make it possible to build new products (e.g. vegetation indices and similar) in a matter of minutes.**

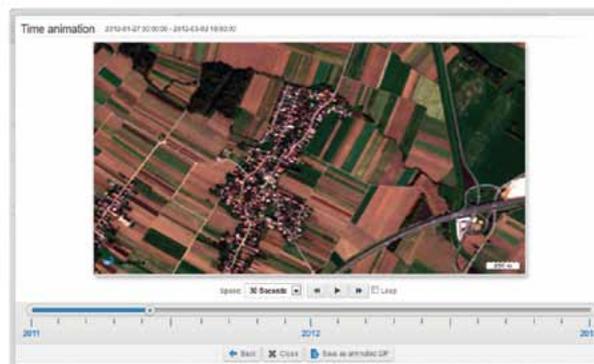
The main features of the system:

- ◆ automated archiving process
- ◆ rolling archive of multi-spectral data
- ◆ full resolution preview over the web
- ◆ time-lapse functionality
- ◆ time-series statistical analysis tools for an area or point of choice
- ◆ script-based on-the-fly definition of new products
- ◆ reprojected WMS services for the integration into 3rd party tools
- ◆ APIs for advanced feature integration

Implement new EO products on-the-fly with a simple scripting language



See changes over time with the time animation tool



We are working on and will be adding the following tools shortly:

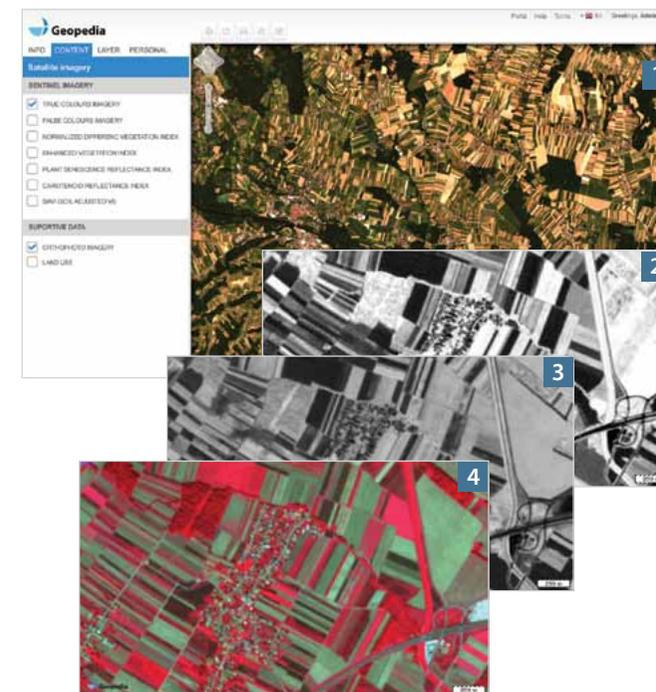
- ◆ land use classification
- ◆ change detection
- ◆ crop mask and crop state
- ◆ drought and flood identification

GEOPIEDIA - A CLOUD BASED GIS PLATFORM WITH SUPPORT FOR CROWD-SOURCING

Geopedia is an ideal platform for sharing, managing and analysing spatial data with a large number of users. It supports:

- ◆ importing and exporting vector data in many formats
- ◆ powerful visualization settings
- ◆ 3D view
- ◆ offline smartphone data editing, useful for crowd-sourcing
- ◆ re-use of existing datasets within the platform
- ◆ sharing personal datasets with others
- ◆ inclusion of WMS data sources
- ◆ can be integrated into 3rd party websites
- ◆ **and now also Sentinel imagery archive**

Geopedia makes it easy to archive, process and distribute satellite imagery



The most common views are already implemented:

- 1 True colour image
- 2 Normalized Difference Vegetation Index
- 3 Enhanced Vegetation Index
- 4 False colour image

View the showcase video on: youtu.be/tJiSg6ysCXo