



## **AUTOMATIC CLOUD-FREE SENTINEL-2 MOSAIC**

The new service providing access to the most actual Sentinel-2 imagery data and indexes.

## **Key features:**

- Frequent data updates: up to daily updates for areas without cloud cover
- Extensive history (since April 2017): go back in time to see how a specific area looked like (~ 10 images per season)
- Fully automated mosaicking: no manual work involved
- Wide coverage: all Baltic countries and more
- Complete metadata: see precise date of acquisition for any area
- Integration with enterprise GIS and user authorization: XYZ/TMS and WMS services
- Automated calculation and representation of indexes: LAI, MSAVI2, NDBI, NDMI, NDVI, NDWI, FAPAR, Fcover, infrared imagery and any other on customer request
- Automated notification of new imagery inclusion in the service: e-mail

## Key benefits for the end users:

- o Low cost service covering the whole country (19 EUR per user per month)
- o New imagery and indexes are immediately included in the service after acquisition
- o Saving lots of time no need for manual work anymore to choose cloud-free data
- Regular access of GeoTIFF mosaics (1x a month or more often)

## Key technical advancements:

- Mosaic data is saved in original format- allows for adding new indexes for historical imagery
- Automatic metadata layer creation updated as soon as new imagery is added
- Very fast XYZ/TMS access to full image history automatically scalable to thousands of users with no speed degradation
- WMS can support any projections (added per user request), full image history and is automatically scalable to thousands of users with no speed degradation
- No manual work involved for data processing

Satisfied end-users: a new service was integrated into different enterprise GIS systems, for instance:

- o Rural Support Service of the Republic of Latvia (Paying Agency), https://karte.lad.gov.lv/
- Farmer's Parliament (serving more than 800 farmers), <a href="https://app.smartagro.lv">https://app.smartagro.lv</a>.

