

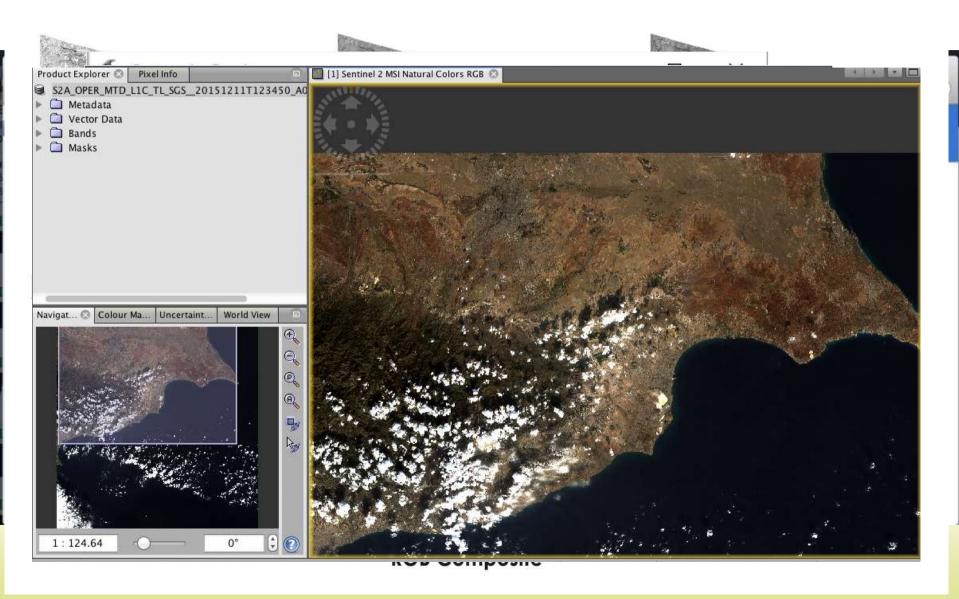
Sentinel Hub

Sentinel-2 satellite imagery distribution service

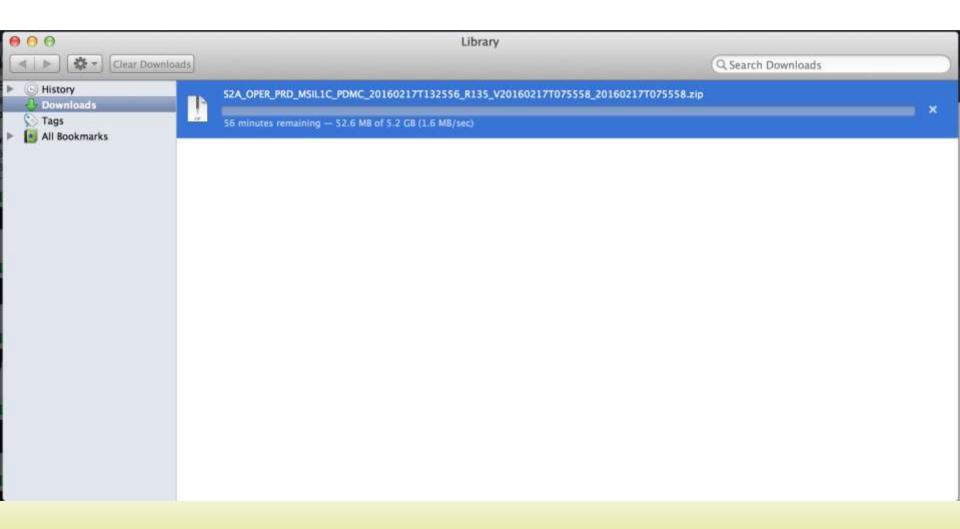
Grega Milcinski, Sinergise, SPACE-SI grega.milcinski@sinergise.com



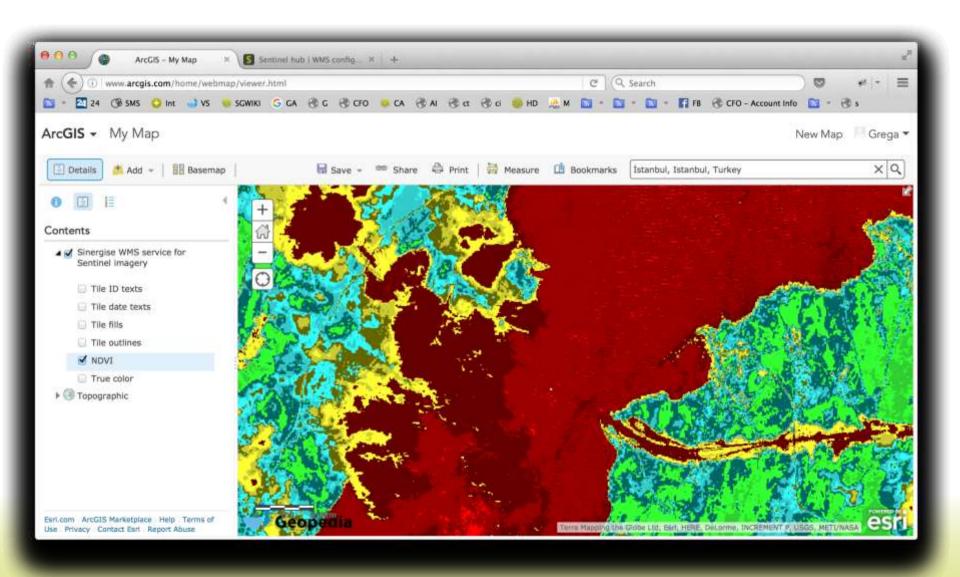
Traditional ways of working with EO data



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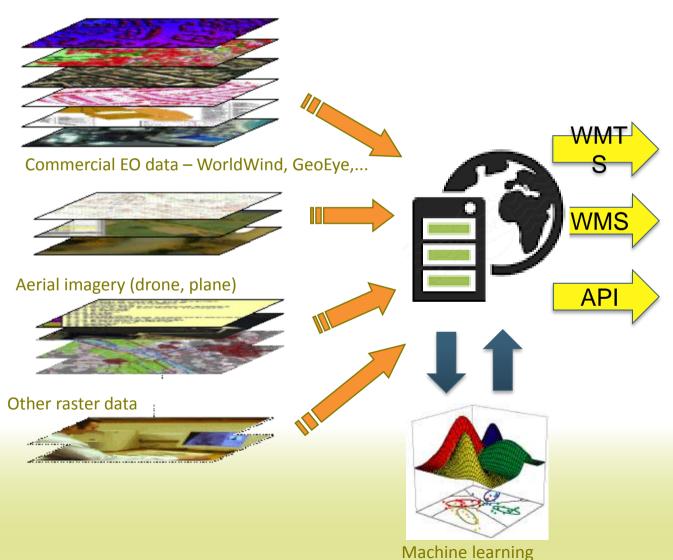


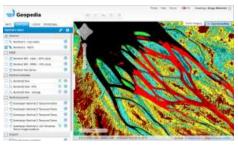
With Sentinel Hub



Earth observation platform

Open EO data - Sentinel-1, Sentinel-2, Landsat, etc.





Cloud GIS



Web applications



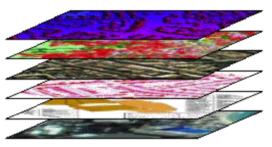
Open source GIS (QGIS, OpenJump,..)



Commercial GIS applications

Earth observation platform

Open EO data - Sentinel-1, Sentinel-2, Landsat



Commercial EO data – WorldWind, GeoEye,...

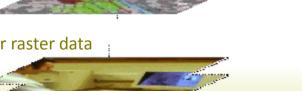


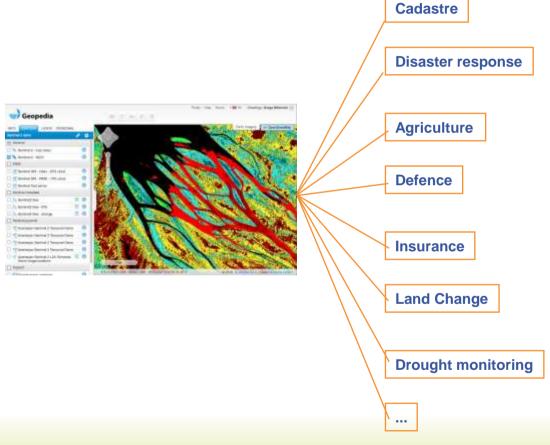


Aerial imagery (drone, plane)



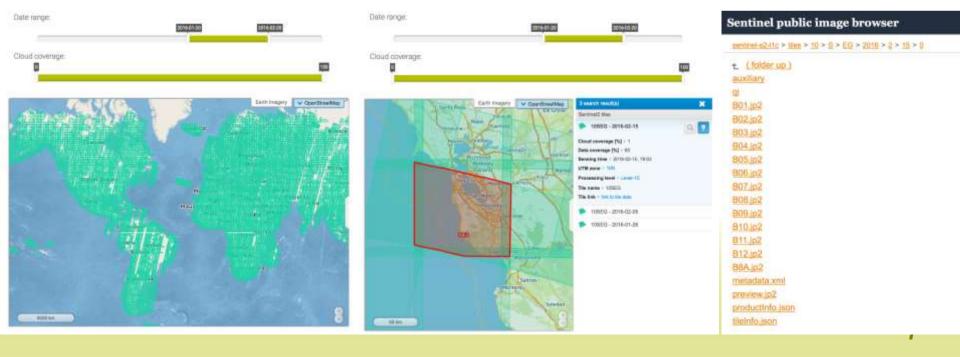
Other raster data







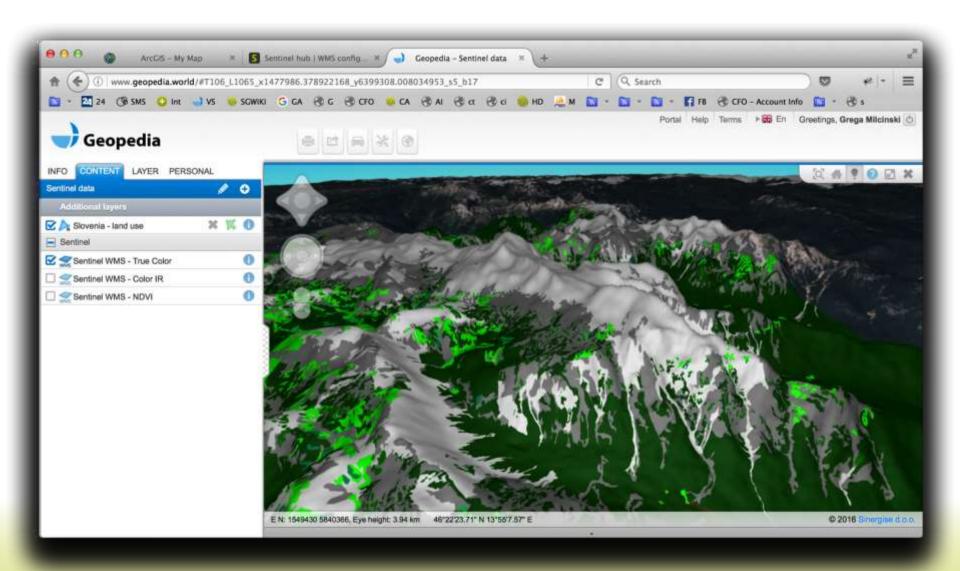
- s3://sentinel-pds
- http://sentinel-s2-l1c.s3-website.eu-central-1.amazonaws.com/



Real-time processing of S-2 data

- Area of interest is processed in 2-4 seconds after request comes
 - download necessary data, decompress, mosaic, composite, rendering, compression
 - exposed via OGC standard services (WMS, WCS, WMTS, etc.)
- No need for additional storage for processed data
- Flexible, easy to add new features
- Process only what is needed

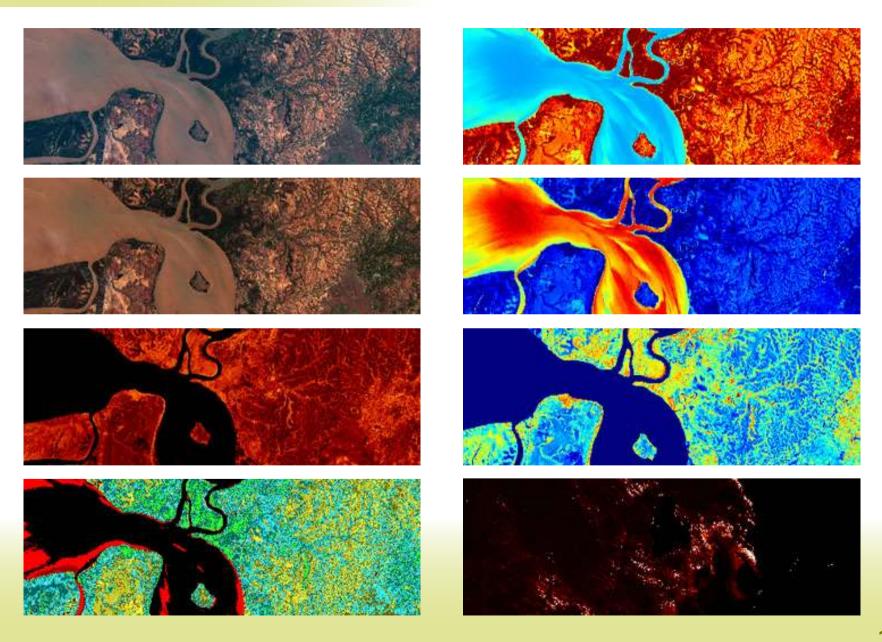
EO data within WebGIS



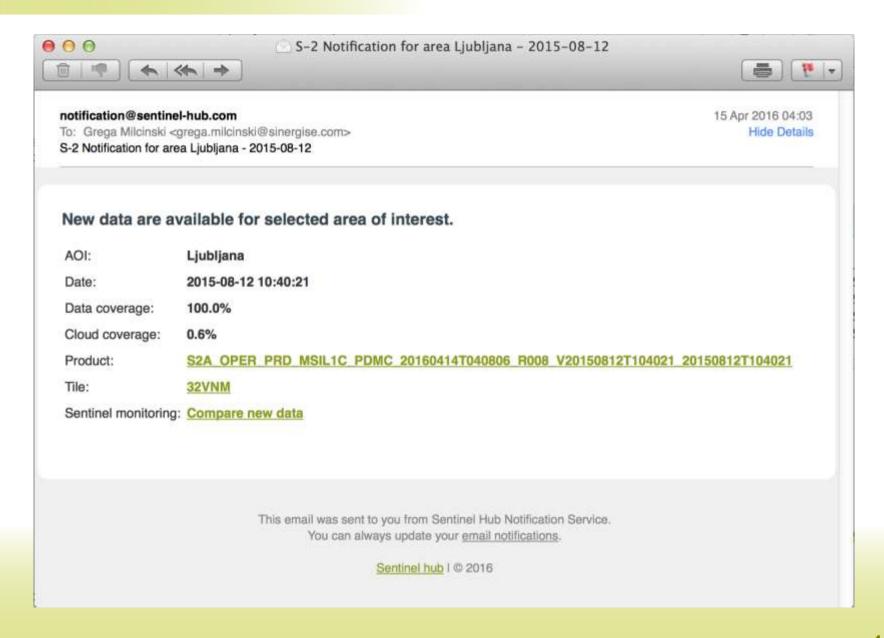
Added value services – EO products



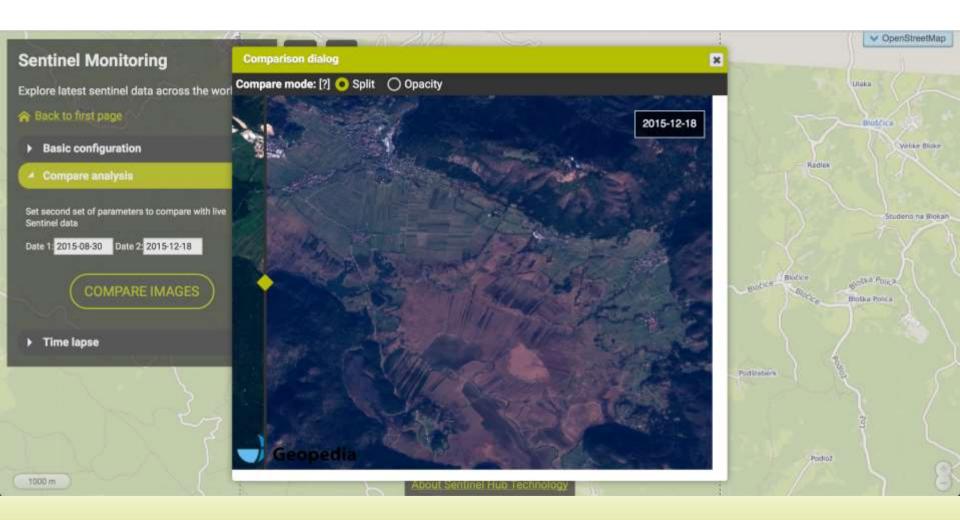
Added value services – EO products



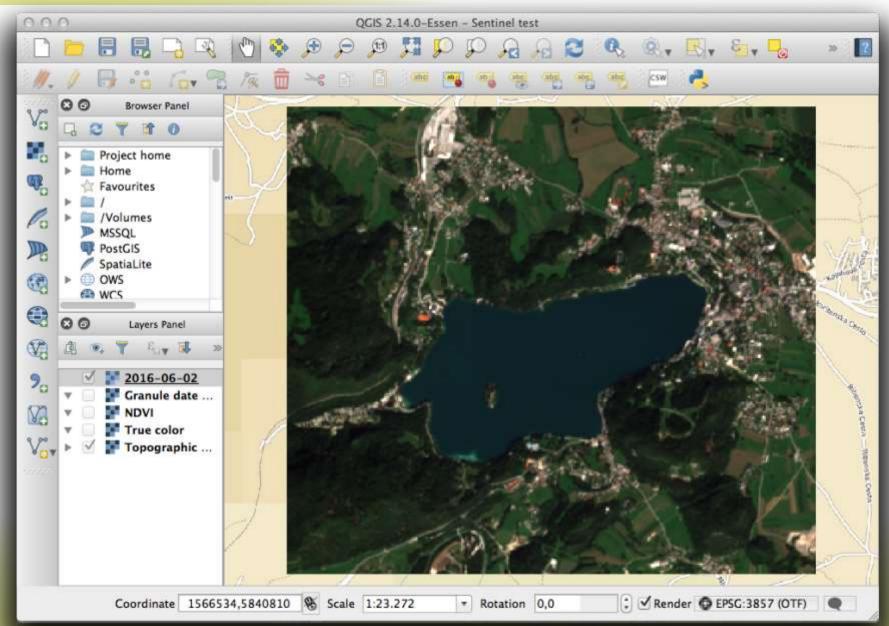
Added value services – notifications



Added value services - land change monitoring



Added value services – mosaic generator



Future plans

- Atmospheric correction (simplified)
- Cloud removal
- Download in SAFE format
- Deployment on IPT Poland
 - Addition of S-1 and S-3
 - Addition of Landsat

Conclusion

- Real-time processing of data
 - cost efficient, flexible
- Operational
- Commercial services

- More info
 - http://www.sentinel-hub.com/
 - goo.gl/BWSr1I (videos)