

What is the aim?

 We want to explore the quality of our landscape in scale of the region

 We have open data from ESA's Sentinel 2 mission

 We want to share our data and help other researchers in the topic of remote sensing

Sentinel 2 characteristics

- Sentinel 2 is optical high resolution mission of European Space Agency (ESA)
- There are two satelites observing earth in the interval of 10(5 days)

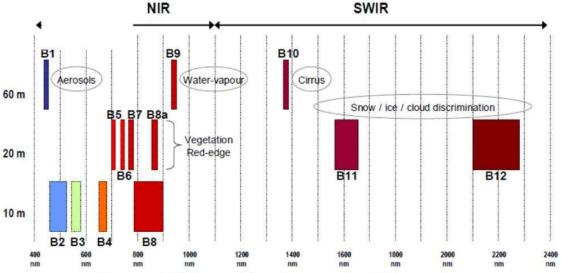
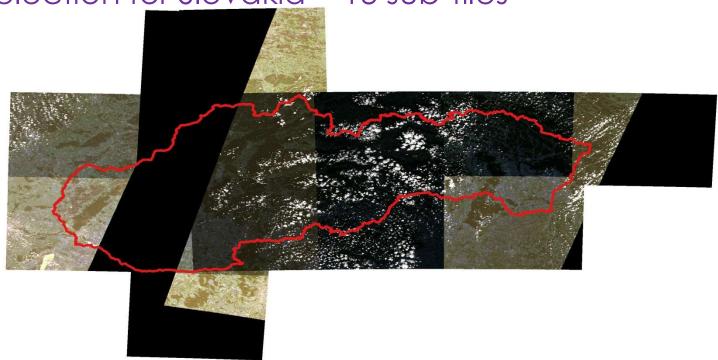


Figure 1: MSI Spectral-Bands versus Spatial Resolution

Input data

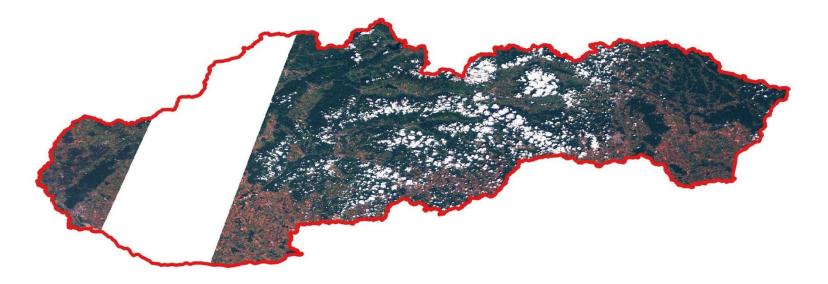
Sentinel 2 L1C 2x2 tiles (observed 25.06. 2016)

Selection for Slovakia = 13 sub-tiles



Processing

- Merging bands 2 8a into single raster layer
- Resampling original 10 (20)m resolution to 50 m
- Merging raster layers into single one
- Clipping

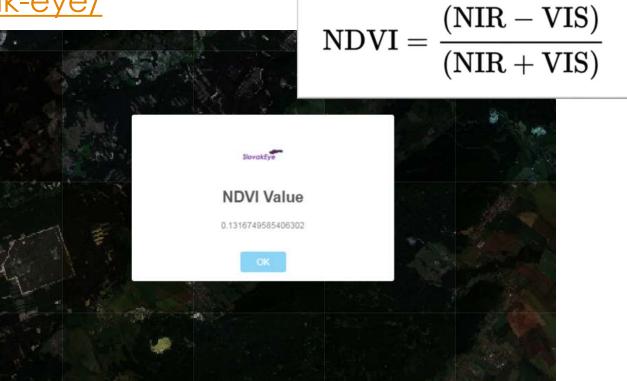


NDVI estimation

NDVI calculation on the client side

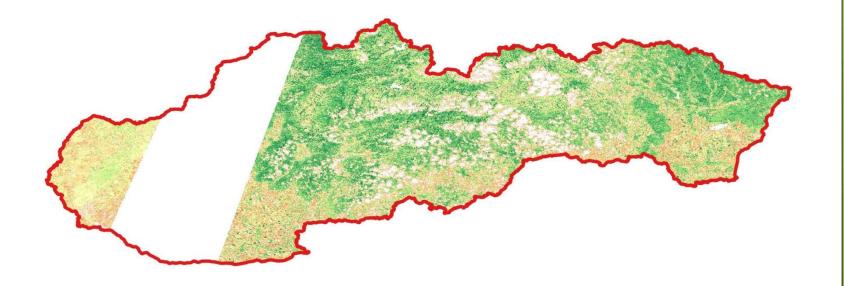
http://bolegweb.geof.unizg.hr/danubehac

k2/slovak-eye/



Publishing

- Dataset is published trough GeoServer and available for download by WCS
- http://data.datacove.eu:8080/geoserver/slovakeye/wcs?service=WCS&version=2.0.1&request=Get Capabilities



Thank you for attention!