SENTINEL 1

Development of customized services for mapping and analysing of water bodies



Matjaž Ivačič

AGENDA

- GeoCodis company
- Cooperation between Space SI and GeoCodis
- Customized services
- Web Portal (VodaKje.Si)
- Other projects

GEOCODIS

- Micro sized private company specialized in development and maintenance of geo-oriented software solutions
- Company starts April 2014
- More than 10 years of experiences
- Project locations: Slovenia, Austria, Serbia, Uganda
- Vision:
 - To become stabile and trusted geoinformation company, active in Slovenian and International markets
 - Quickly react to market needs and changes
 - Quickly adopt to new technologies and challenges

SPACE.SI

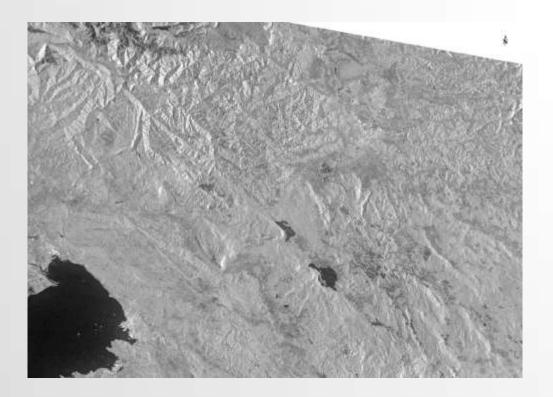
- Automatic download from Sentinel Data Hub
- Geometric corrections
- Water detection and filtering
- Raster FTP upload

GEOCODIS

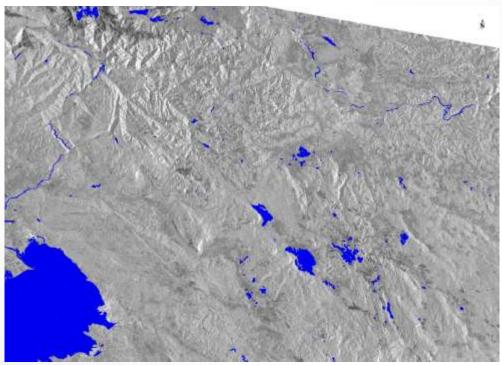
- FTP download
- Raster and vector processing
- Database modelling
- Rest API-s
- Web applications



SPACE.SI



SPACE.SI

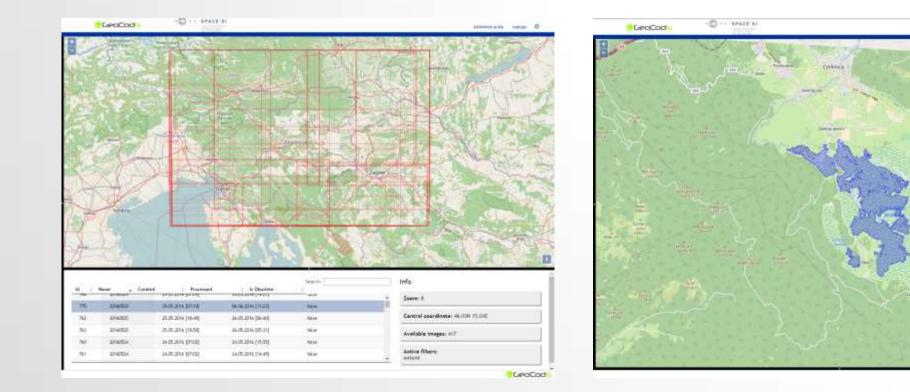


GEOCODIS



Abrahamanta margar @

(secCod)



- FTP download service (60 minutes, configuration settings)
- Raster vectorization
- Data base management
- Raster optimization
- Flash Flood and other polygons overlay
- Flood Statistics



CUSTOMIZED SERVICES

• API-s

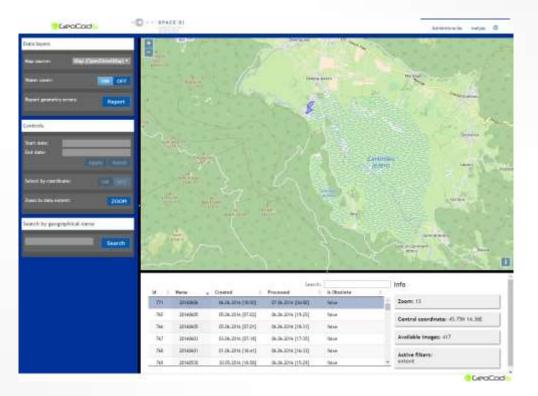
- Data quality reporting
- Image detailed data
- Sentinel 1 observation plan
- Get Water bodies area/time
- Aggregation results area/time

Geocodis - ARSO web API

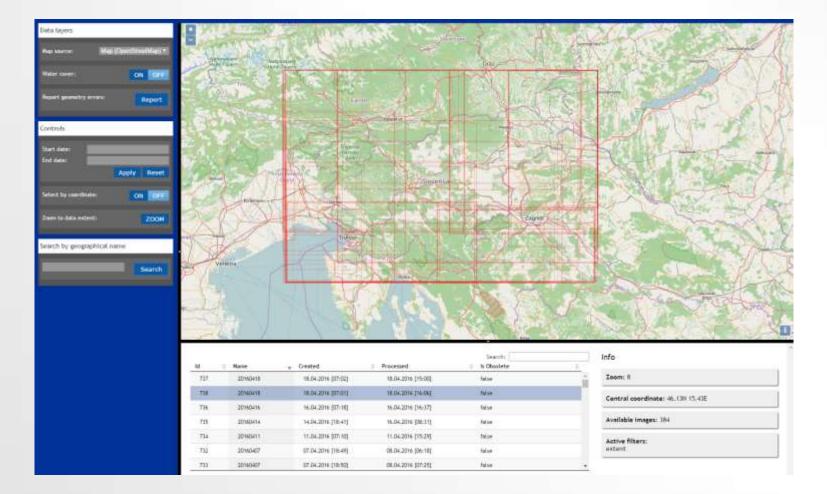
ApiNapake	Shine/Hde Uitz Operations Expand Operations
GeomNapake	Show/lide List.Operations Expand Operations
/api/napake	We tip: rapak
ee /api/ocene	Vid že oddane ocane slojev cz. voda
Post /api/ocene	Ganvaci oceno slojo ali prometičje
/api/ocene/(idOcene)	latniki oteno sloja ali geometrije
Pokritost	ShameHida / Unit Operations / Espand Operation
Povodja	Shwelf6de Um Operations Especid Operation
Snemanja	Show/Hide Ust Operations Expand Operation
an /apl/snemanja/arhiv	Artiv snemanj za pridobivanje 10-ja, datuma snemanja in datuma obdelave za vsa snemanja
er /apl/snemanja/urnik	Urnik anemanj za pridobivanje datumov nacrtovanih svemanj
oer /api/snemanja wa menanja e Genjson Natu	re collection-u. POZOIII Zafo zahtevna operacija, ker snemanja obsegajo veliko število koordinat
orr /api/snemanja/poligoni	Za vsako snemanje dobimo najmanju pravokom poligon, in ga snemanje obsego
/api/snemanja/(idSnemanja)	Gespon to pasametric oboqe snemanja
ur /api/snemanja/(idSnemanja)/vode	Vtv vode na določenem snamanju v obliki Geopon featura collection
/oet /api/snemanja/(idSnemanja)/shp	Vse vode na določenem snemanju v SHP dautek
Vode	Show/Hide Ust Operations Expand Operation
uer /api/vode/(idVode)	Geojson vrédnost vodne površine z določenim ID-jem
/api/vode/{idVode}/lastnosti	Lastnosti vodne površine z določenim ID-jem
or: /api/vode/{datumZacetka}/{steviloDni}	acije (unije) genim vrednosti vseh voda v danem obdobju. POZORI Operacija latiko maja zna. 10 s

CUSTOMIZED SERVICES

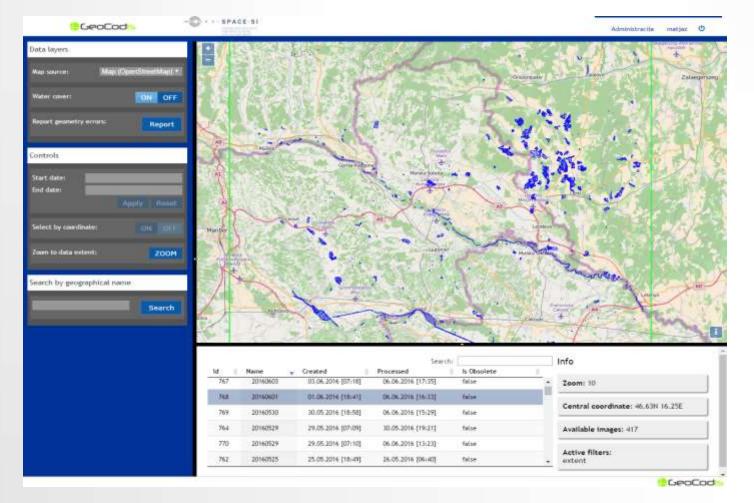
- Integration into Web Portal
- VodaKje.Si (Where is water?)



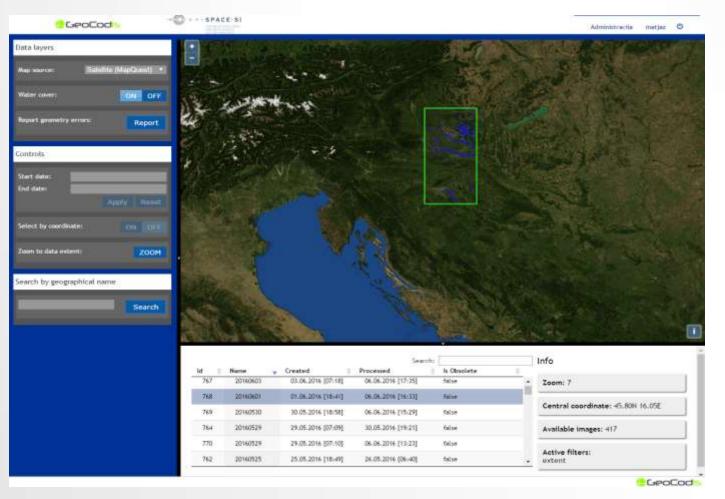
WEB PORTAL



WEB PORTAL



WEB PORTAL



OTHER PROJECTS

- UPMIS
- RWIS MDSS
- SIMOBIL, QoS









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