MONICA DIEZ – PRODUCTS AND SERVICES @ GEOSAT

MONITOR HERITAGE FROM SPACE

Change Monitoring over outdoor archaeological sites – a perspective from VHR Optical imagery



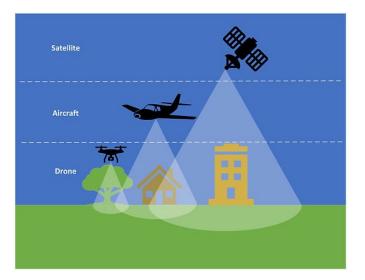


What could EO do for Cultural Heritage?

- Tangible and Immovable Cultural Heritage
 - Historical buildings
 - Monuments
 - Archaelogical sites
- Climate Action for World Heritage
 - Climate change observatories
 - Monitoring, mitigation and adaptation practices.

AREA MONITORING : AERIAL vs VHR EO vs HR EO

Data Source	RESOLUTION	EASE TO PLAN & OBTAIN DATA	COST	Urban & INFRA. MGMT	Environment & resources
Aerial	****	****	€€€	Yes	Yes
GEOSAT	***	***	€	Yes	Yes
Sentinel-2	****	****	Free	No	Yes



GEOSAT: WHO WE ARE

EUROPEAN PROVIDER OF VERY HIGH RESOLUTION IMAGERY AND VALUE-ADDED SERVICES



End to End control of **2 Optical** satellites



165 customers65 countries



1 of 2 European VHR data providers. Offices in PT and SP

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24/7 operations



Rapid tasking and delivery



12+ years of experience



6bn sqkm of imagery archive

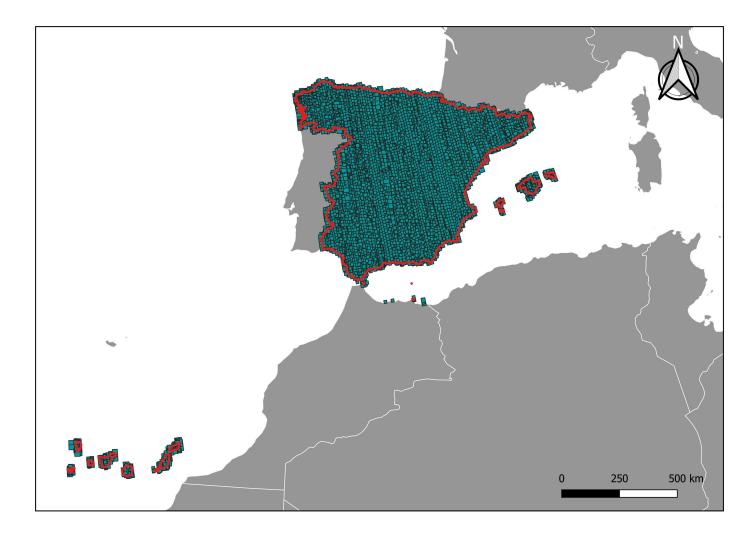


SW development team for custom services



LARGE REGION COVERAGES WITH VHR EO

- Satellite imagery. Complement to aerial coverages. More frequency
- ► Cost of launch of satellites has decreased → Lower cost of data
- AI and other technologies applicable
- Licensing is flexible
- Use cases on multiple applications

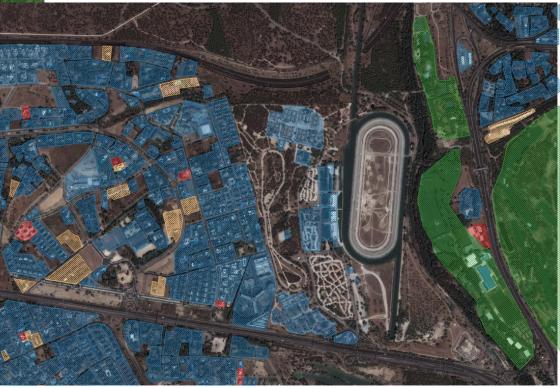




CHANGE DETECTION AND CLASSIFICATION

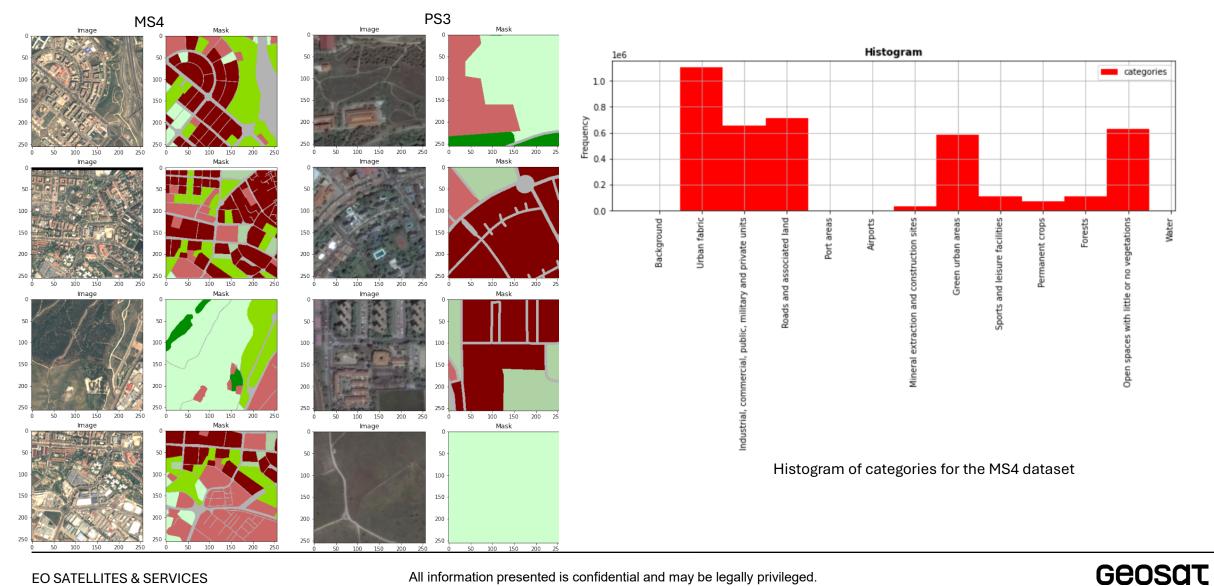


Color code	Analytics		
	Build-up areas		
	Under construction		
	Sport areas		
	New constructions		





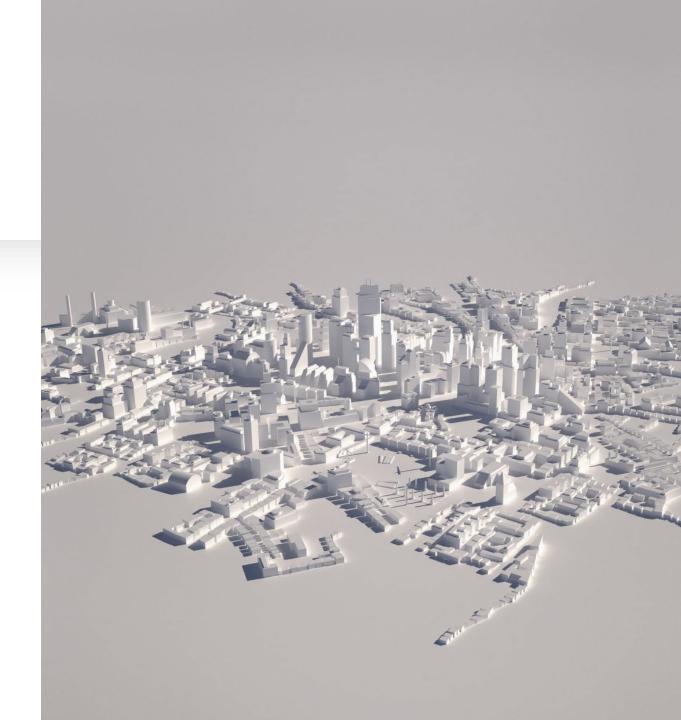
CHANGE MONITORING AND CLASSIFICATION



EO SATELLITES & SERVICES

MONITORING OF OUTDOOR ARCHAEOLOGICAL SITES

- GEOSAT 2 data is capable of performing frequent monitoring over scattered areas over large regions
- Model to automatically generate a regional LULC map with <1m resolution.
- Adapt current product to archaeological sites characteristics.
 - No extension restrictions
 - Own classification could be modeled

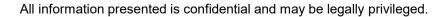


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EO SATELLITES & SERVICES





Thank you!

Geosat

THE POWER OF EARTH OBSERVATION FROM SPACE