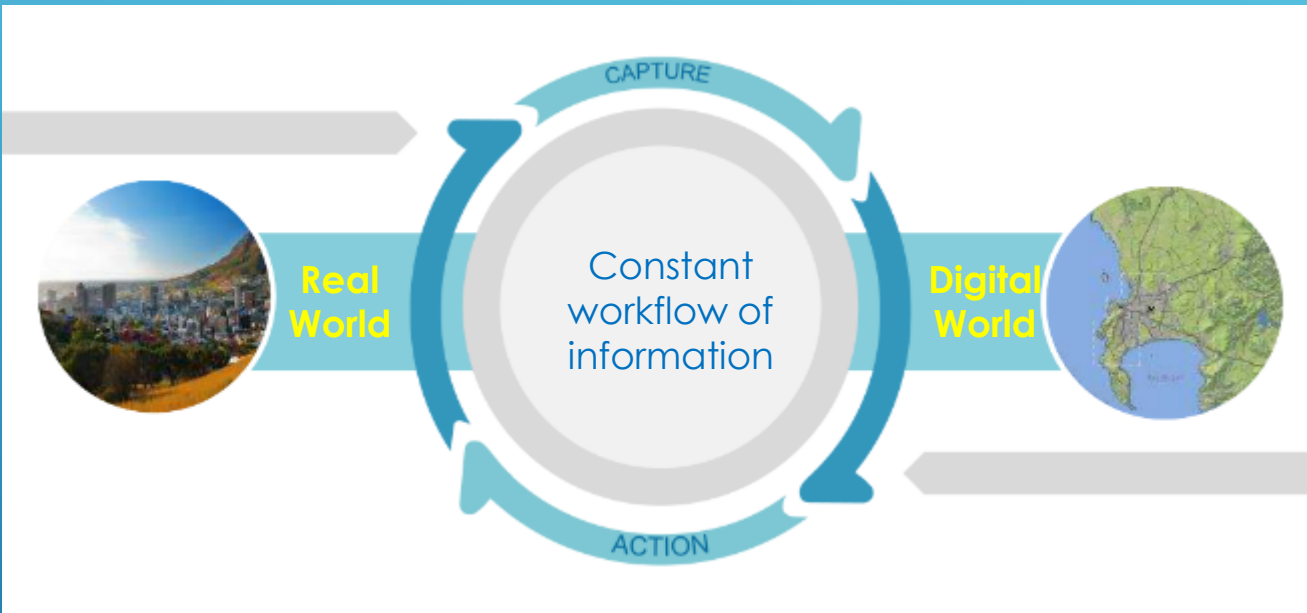


Presentation : “Hellenic Downstream Applications Current technological capabilities of the Hellenic Industry Programs with ESA”

**Vasiliki (Betty) Charalampopoulou | CEO/President
Geosystems Hellas S.A.**

GEOSYSTEMS HELLAS S.A. (GSH) was established in November 2009 as GEOSYSTEMS EU GROUP Member (www.geosystems-group.eu) acting commercially as Intergraph solutions partner (nowadays Hexagon Geospatial) and Airborne Solutions partner, authorized reseller and as consultant in Greece and Cyprus on subjects of Photogrammetry, GIS and Remote Sensing, and also on Geodetic & Environmental Monitoring.

Sea and LAND MANAGEMENT R&D projects



“Member of the si-cluster and the Hellenic Association of Space Industry”. Member of EARSC. Participation in ESA and EARSC working groups and in four H2020.



What we do?

DATA PREPARATION ON BOARD

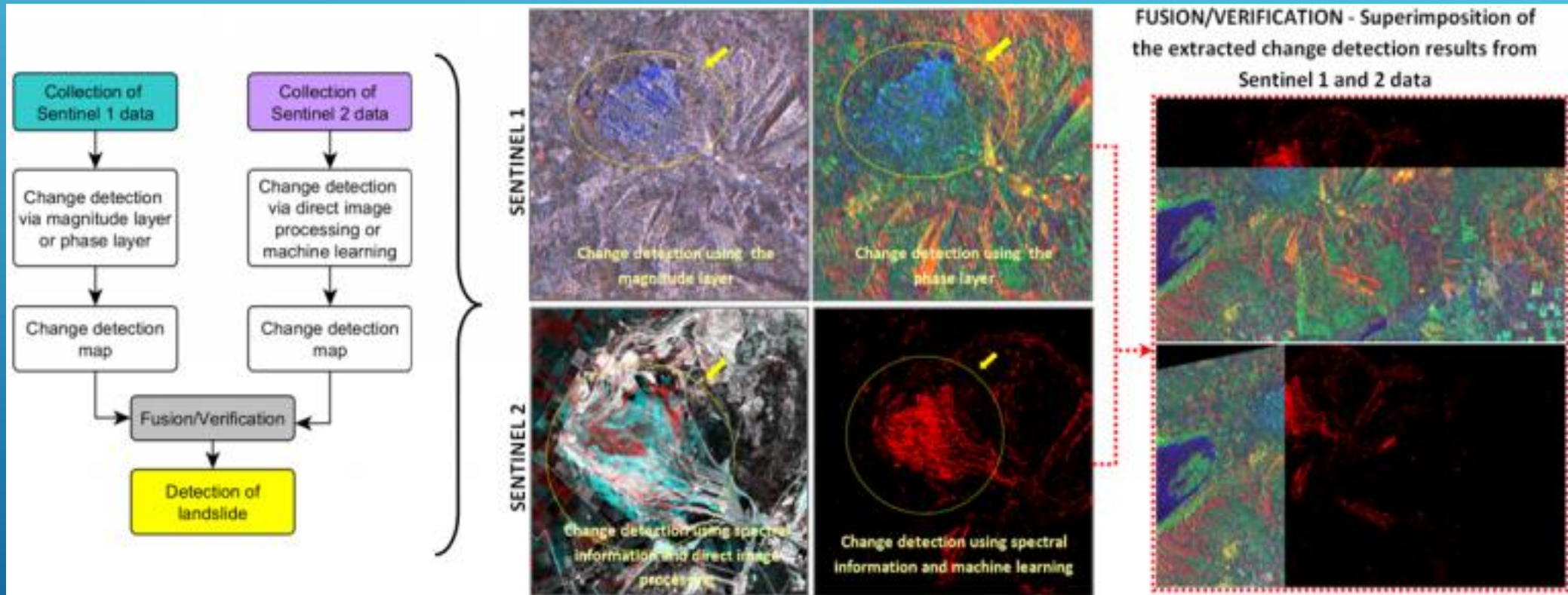
1. Camera CALIBRATION
2. Data GEOLOCATION
3. Atmospheric Correction
4. Data Compression

Model the spatial, spectral and radiometric behavior of the instrument and the processing algorithms up to Level 1c.

What we do?

REMOTE SENSING APPLICATIONS, PHOTOGRAMMETRY EXPERTISE & GIS SOLUTIONS –SERVICES IN SITU

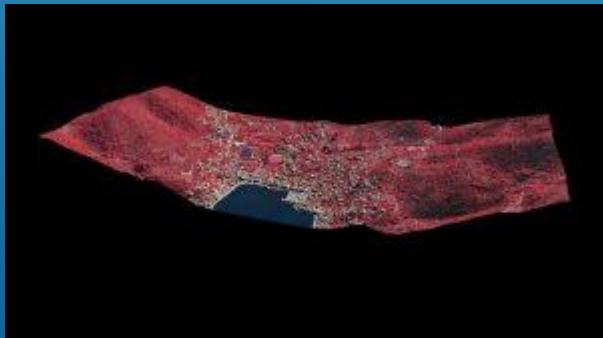
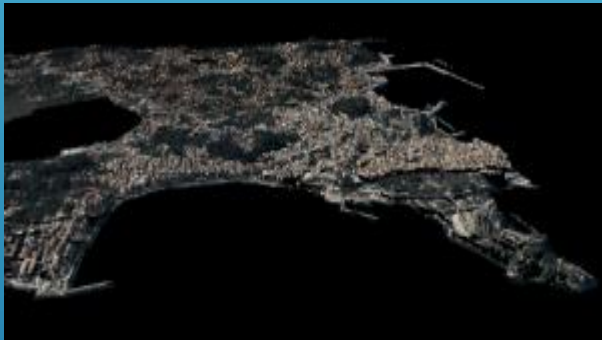
Remote Sensing and Earth Observation



What we do?

REMOTE SENSING EXPERTISE, PHOTOGRAMMETRY APPLICATIONS & GIS SOLUTIONS

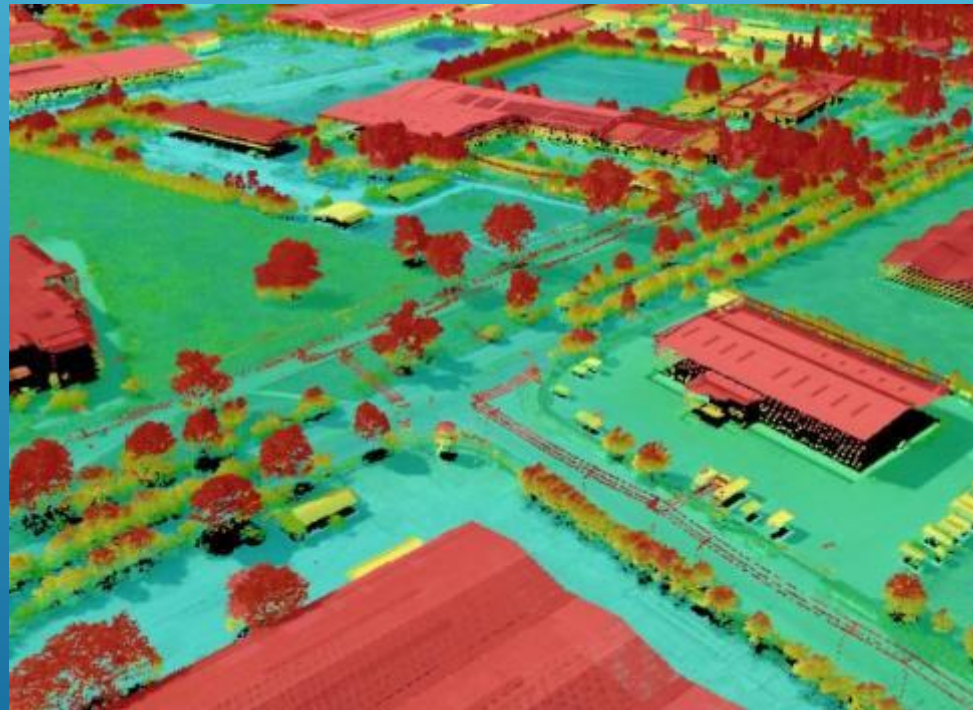
Photogrammetry expertise

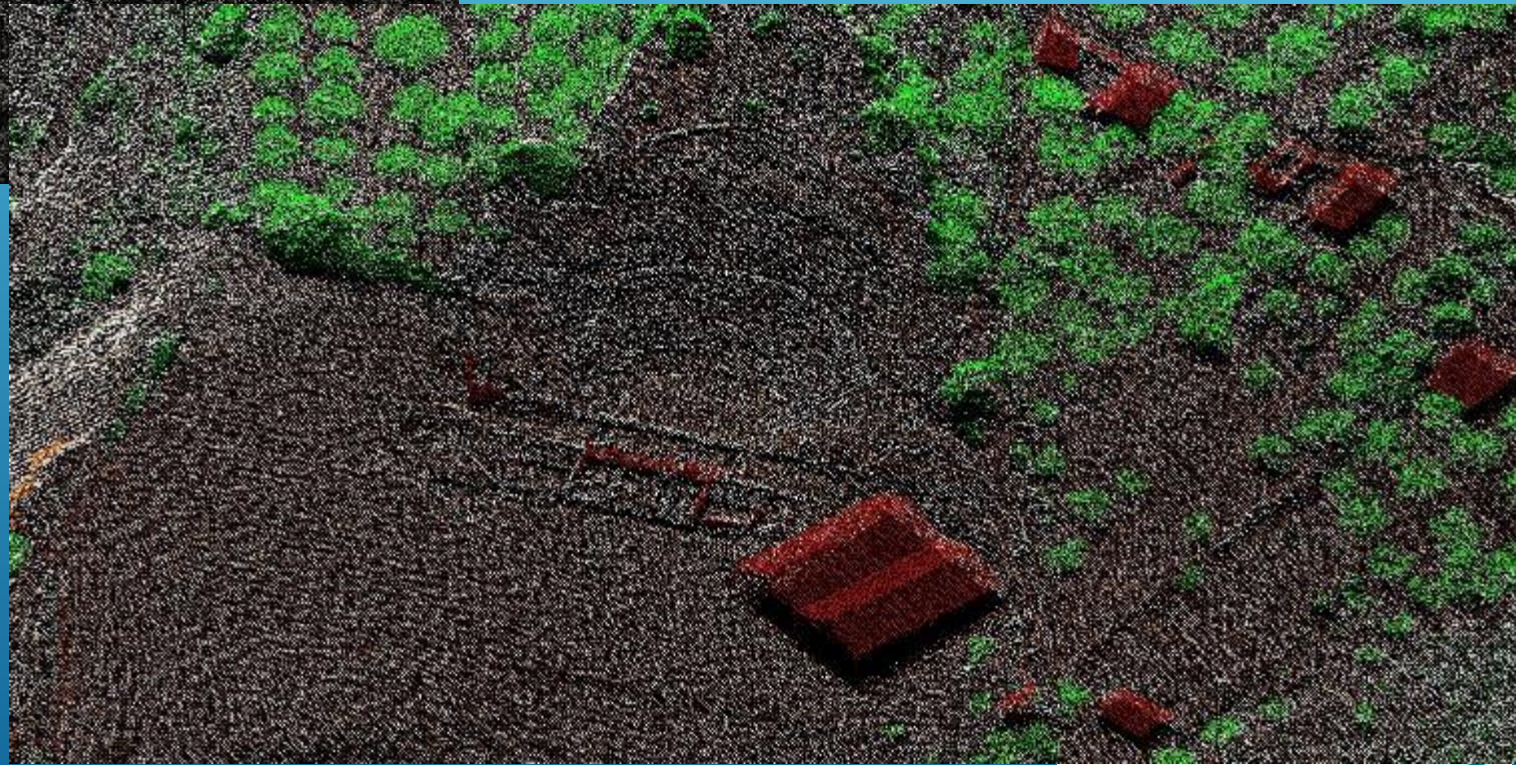
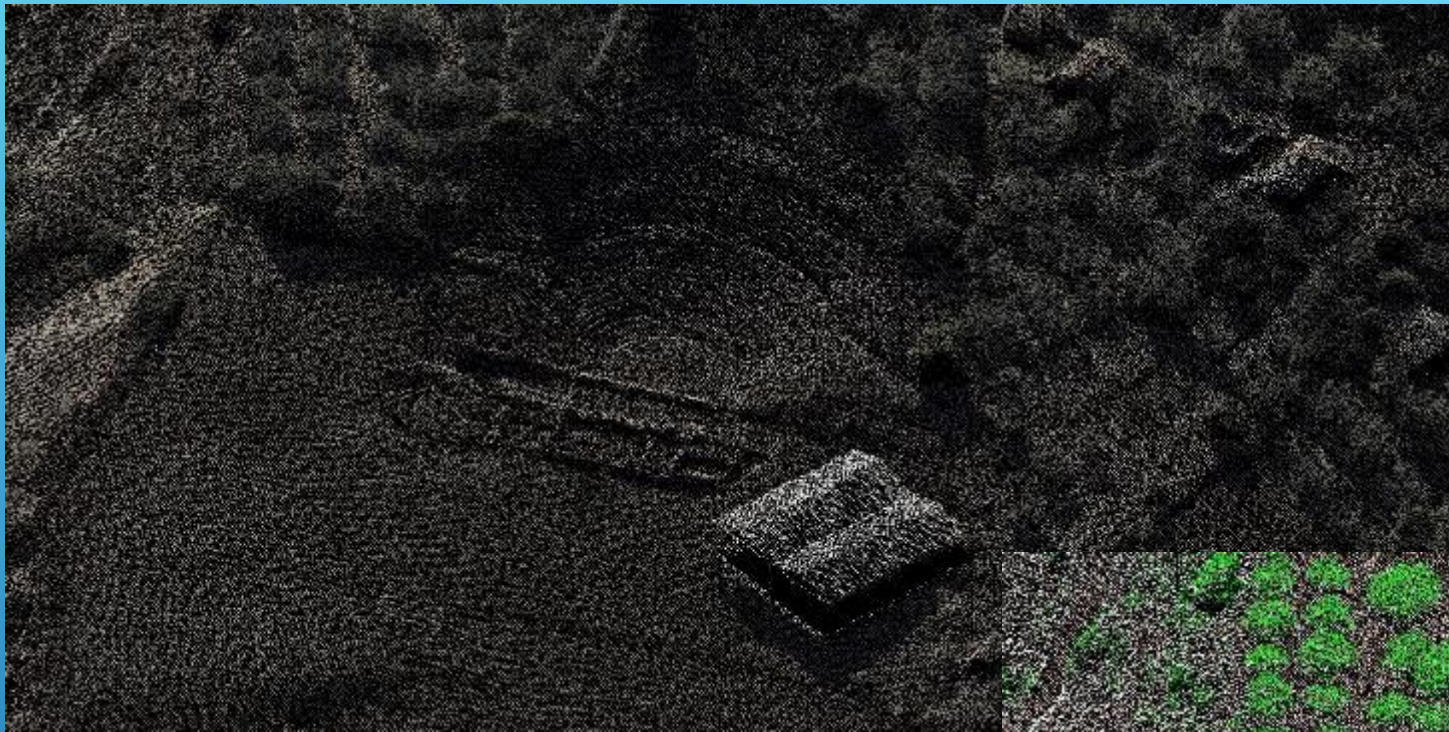


What we do?

REMOTE SENSING EXPERTISE, PHOTOGRAMMETRY APPLICATIONS & GIS SOLUTIONS

Point cloud processing techniques for 3D monitoring

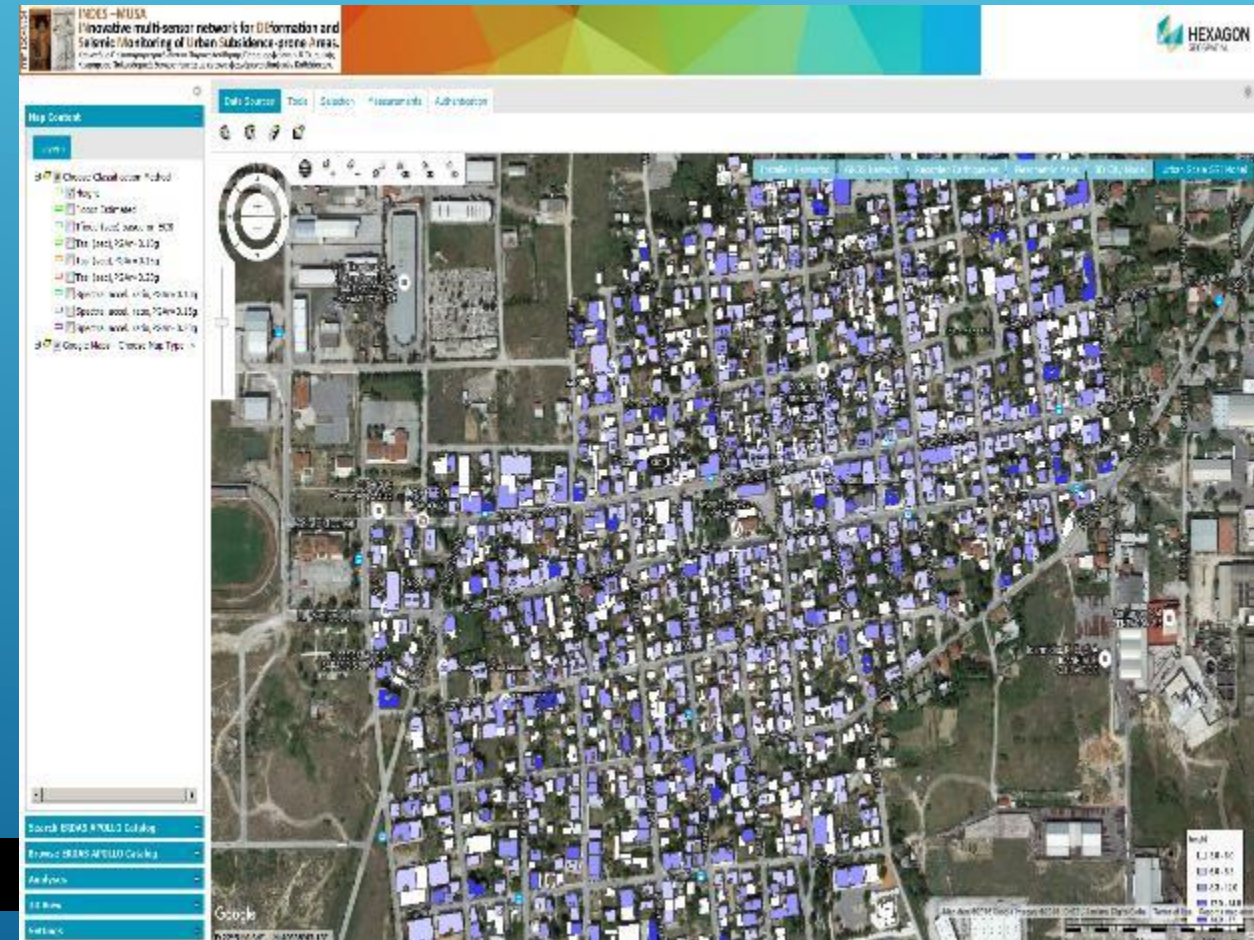
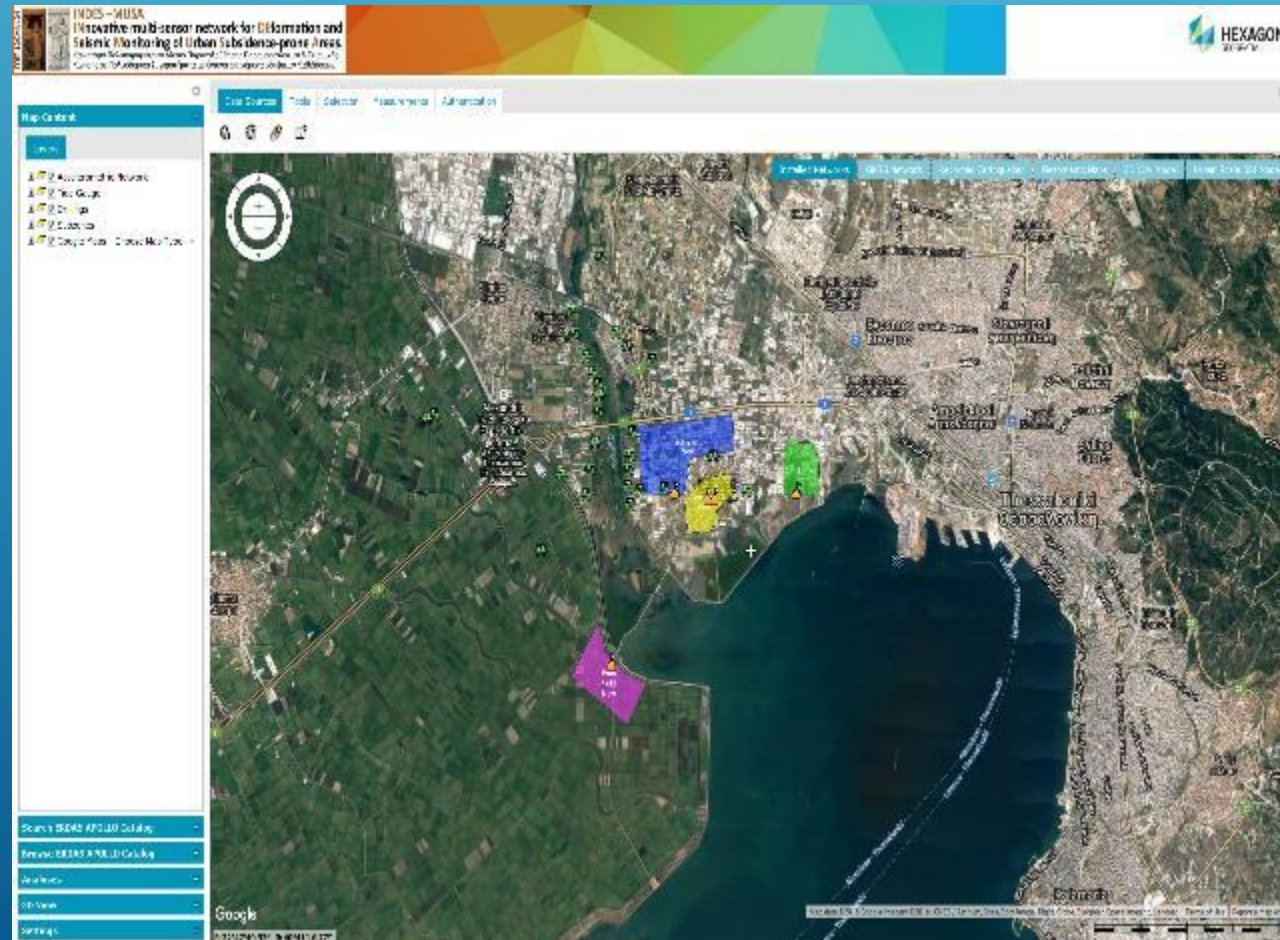




What we do?

REMOTE SENSING EXPERTISE, PHOTOGRAMMETRY APPLICATIONS & GIS SOLUTIONS

Web-GIS with various services (WMS, WFS, WPS etc.):



- ▶ BLENDED, Synergetic use of Blockchain and Deep Learning for Space Data (ESA ongoing research project), <https://www.spaceapplications.com/news/blockchain-and-machine-learning>
- ▶ euPOLIS, Integrated NBS-based Urban Planning Methodology for Enhancing the Health and Well-being of Citizens, <http://eupolis-project.eu/> (GA-869448)
- ▶ HARMONIA, H2020 project 101003517, Development of a Support System for Improved Resilience and Sustainable Urban areas to cope with Climate Change and Extreme Events based on GEOSS and Advanced Modelling Tools
- ▶ H2020Next-generation Dynamic Digital EPCs for Enhanced Quality and User Awareness -D²EPC <https://www.d2epc.eu/en> (GA-892984)– H2020 Next-generation of Energy Performance Assessment & Certification focusing on the the geolocation of the buildings.

What we aim to do?

PRESERVING THE ENVIRONMENT AND HUMANS HEALTH THROUGH GEOSPATIAL AND EARTH OBSERVATION TECHNIQUES

The ever-growing availability of high-resolution and freely available Earth Observation (EO) data is a disruptive process that defines the economical and technological landscape of security and environmental monitoring as well as security and environmental assessment and planning

This is an opportunity to use EO on business applications



Thank you for you attention !

Betty Charalampopoulou

GEOSYSTEMS HELLAS S.A.

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Web: www.geosystems-hellas.gr

**Be ready for the
future...**

We are committed to moving business and industry beyond predicting, preparing and adapting – to influence the present and affect the future, and ultimately, narrow the chasm between what is and what should be.

We call this the shape of change.

The shape of progress.

The shape of things to come.