

Driving Excellence through Advanced Geospatial Intelligence
Precision, Innovation, and Trust for Mission-Critical Operations

GEOSYSTEMS
HELLAS

SPACE-Crete Info Day at FORTH
Heraklion, 2 October 2026

Betty Charalampopoulou, President and CEO



Director in the European Association of Remote Sensing Companies (EARSC)
EARSC representative in the GEO Post-2025 Working Group.

Member of the board of the Hellenic Association of Space Industry (HASI) where also acts as head of the EO WG.

ELOT “Expert – Greece” at the ISO TC20 /SC14 /WG 8 Downstream standardization for Space Services & Space-based Applications Group.



01

Company

Geosystems Hellas S.A. is an SME, established in 2009 and is based in Athens, Greece. Currently operating in two branches (Athens, Crete)



02

Workforce

45+ employees, encompassing a diverse team of engineers, software developers and geo-scientists, all contributing to the success of our company



03

International presence & innovation

Participates in numerous **commercial** and **R&D national** and **European** projects



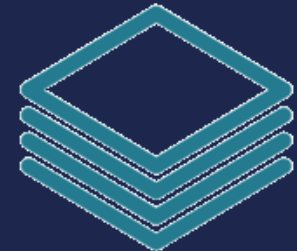
04

Qualifications

ISO 9001:2015
ISO 27001:2013
ISO 22301:2019
ISO 14001:2015

NATO SECRET-EU SECRET plus for digital services

MoD MANUFACTURERS LIST



Expertise in downstream space applications and high-impact system integration



Earth Observation Services

Advanced analysis and interpretation of satellite imagery and aerial data



Remote Sensing

Utilization of superior sensors imaging the Earth to extract information and spatial data



Geographic Information Systems (GIS)

Development and implementation of intergraded hardware and GIS solutions for spatial data management and visualization analysis



Photogrammetry

High-precision mapping and 3D modeling using aerial photographs and satellite imagery to support various applications



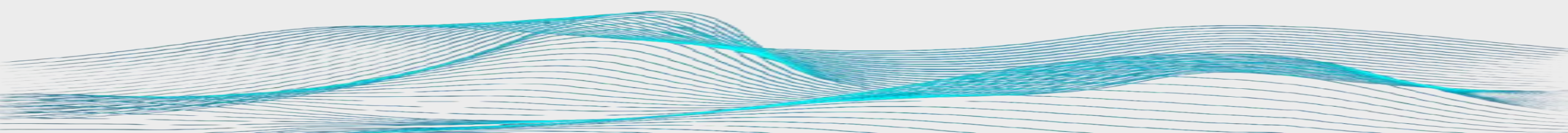
Data Management

Comprehensive data management services including storage, processing, fusion and analysis to ensure data integrity and accessibility



Platform Development and Integration

Custom software development and seamless integration



Video analysis and object tracking

Computer vision techniques on target identification and tracking via on-board sensors (Satellite, airborne, UAV)

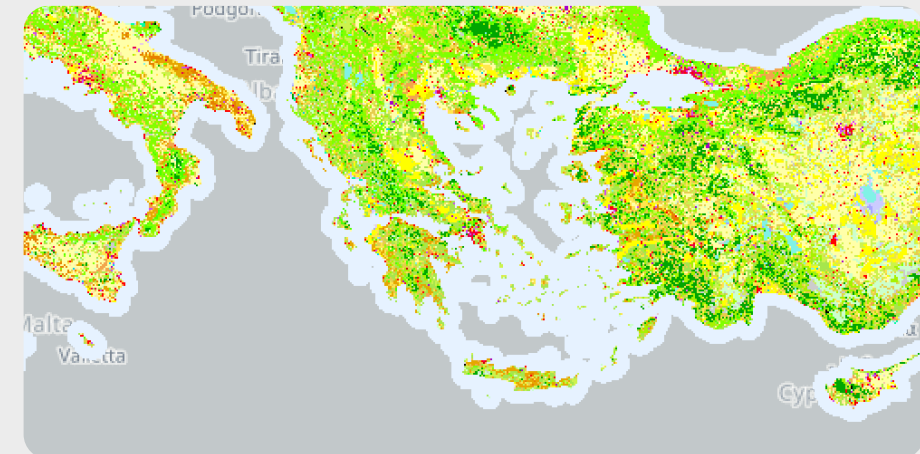
- *Live feed feedback*



LC/LU Classification

Land cover classification from satellite imagery to support operational planning and situational awareness.

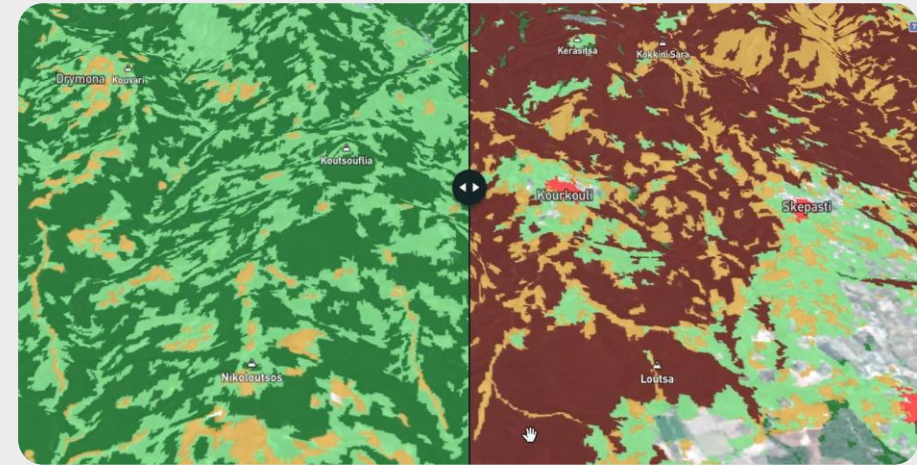
- *SotA pre trained model for Greece & Mediterranean*



Change Detection analysis

Detection of spatial changes over time for intelligence gathering and threat monitoring.

- *SotA approach for Greece & Mediterranean*



Object detection

Real-time image processing of multi-source imagery for object detection

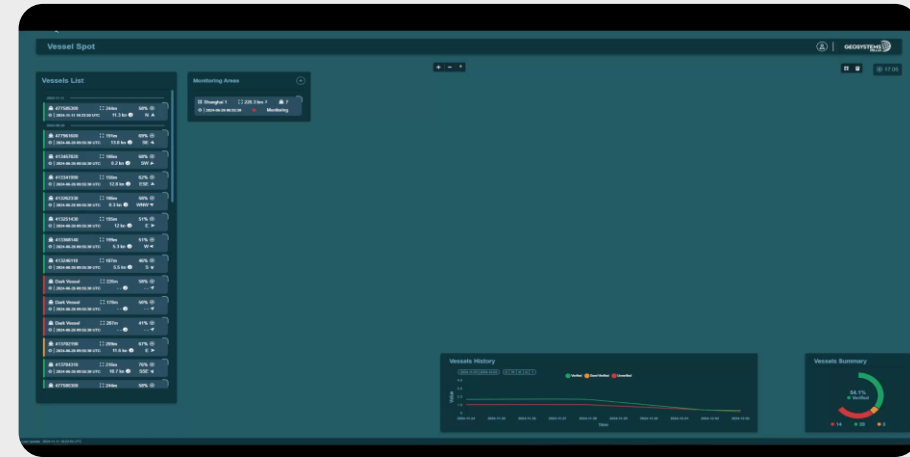
- *Location, course, category and shape of an object detected*



Maritime awareness and Dark vessel detection - VesselSpot

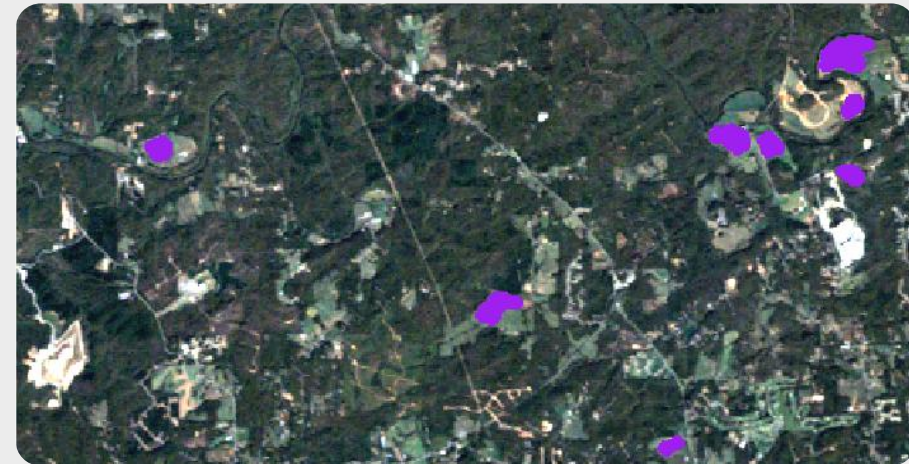
Dark vessels detection and identification based on several operational scenarios.

- *State-of-the-art pretrained NN model*



Terrain awareness: Helicopter Landing Positioning

Accurate geospatial analysis to identify and validate optimal landing zones in diverse terrains.



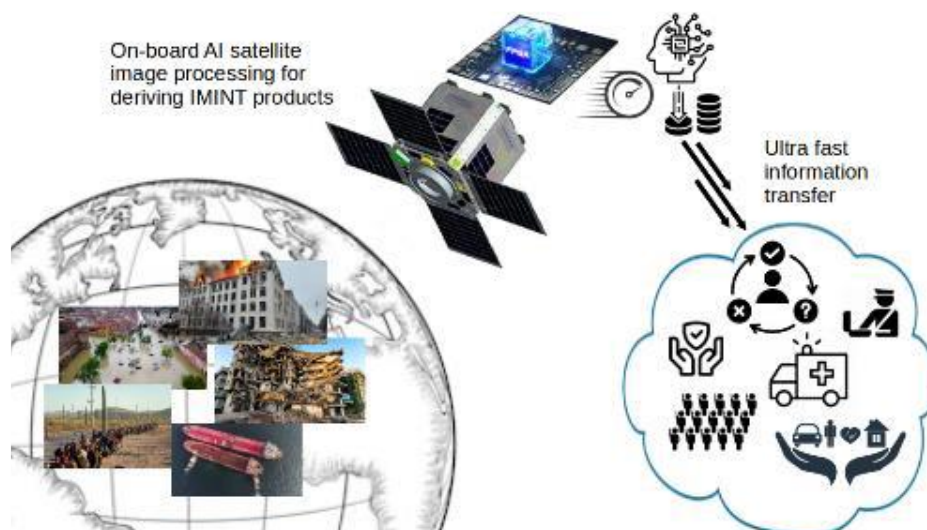
EXPERTISE – downstream space applications and high-impact system integration

CHIPS : Embedded systems

SECURE ACCESS TO MISSION OPERATIONS SERVICES

NeAIxt - Next Generation of edge AI crossing technology fields (HORIZON-JU-Chips-2024-1-IA)

- A 2024 founded Embedded system department in GSH focusing on processor units for EO based applications - Involvement in [HORIZON-JU-Chips-2024-1-IA-T1](#) NEXT4AI project. Main activities focus on developing and testing an FPGA-based simulated toolkit optimized for smallsat and cubesat payloads



Position and Navigation & Timing services

- Collaboration with CGEOS, ALPHA STAR NETWORK Project
CREATIVE GEOSENSING SPRL-S, <http://www.cgeos.com/>
- GNSS positioning infrastructure for autonomous navigation purposes -
Geosystems Hellas' expertise in managing this station further demonstrates
its capability in handling high-precision GNSS technology

Involvement in ESA's contract NAVISTAR (NAVigation Intelligent Systems for Transport Advancement Research) for identifying the main technological gaps and emerging PNT technologies



KEY SPACE-RELATED ACTIVITIES



HELLENIC REPUBLIC
MINISTRY OF DIGITAL GOVERNANCE



GREEK NATIONAL
SMALLSAT PROGRAMME



GREEK NATIONAL SATELLITE SPACE PROJECT: AXIS 3 LAND MONITORING SERVICE

The aim of this project is to design, develop, validate, integrate, and deliver a holistic Land Monitoring Service for Greece, utilizing a series of multisource satellite remote sensing data and including interfacing to the external data sources as, provided by the Copernicus Programme.



Hellenic Space Dawn: Selene & Helios

This activity develops the first Greek CubeSat twin constellation SELENE and HELIOS (CubeSat for Earth monitoring, high-Level Mission instrument), the Hellenic Space Dawn (ESA ITT AO/1-11498/22/UK/ND). The project partners design, build, test, launch and operate the two HS-DAWN cubesats (CubeO-1 kai CubeO-2).



HELLENIC REPUBLIC
MINISTRY OF DIGITAL GOVERNANCE



GREEK NATIONAL
SMALLSAT PROGRAMME



GREEK NATIONAL SATELLITE SPACE PROJECT: AXIS 3 FOREST MONITORING SERVICE

The aim of this project is to design, develop, validate, integrate, and deliver a holistic Forest Monitoring Service for Greece, utilizing a series of multisource satellite remote sensing data and including interfacing to the external data sources as, provided by the Copernicus Programme.



EO BEST PRACTICES for Ports/APEX platform

“EO4 the port of the future” investigates how the use of state-of-the-art EO and geoinformatics can operationally be used to enhance the port operations serving the port business operations, but also the security and environmental sustainability of ports and harbors.



The Golden Twins – 1st awarded Incubed project in Greece

The Golden Twins platform provides real-time, high-resolution Earth Observation (EO) services for forest fire monitoring, extreme precipitation events, and vessel tracking on Greek islands. By utilising LEO satellites and advanced AI, it offers safety alerts, risk assessments, and evacuation guidance for the tourism, maritime, and insurance sectors, ensuring rapid response and enhanced decision making.



3D reconstruction Photogrammetric processes for mapping (DSM/DTM, processing aerial imagery & LiDAR data)

Several successful missions of LiDAR data acquisition and mapping. 3D imaging with LiDAR system and aerial photography are produced as final products: orthophotos and orthomosaic of very high resolution of any AOI, as well as classified and colored spot clouds.

Memberships and Positions



Ελληνογερμανικό Εμπορικό
και Βιομηχανικό Επιμελητήριο
Deutsch-Griechische
Industrie- und Handelskammer

EARSC

European Association
of Remote Sensing
Companies



DRIC
DEFKALION



EBIAITE
Ένωση Ελληνικών Βιομηχανιών
Διαστημικής Τεχνολογίας &

EXCELSIOR



SEKPY
HELLENIC
MANUFACTURERS
OF DEFENCE
MATERIEL
ASSOCIATION



si-cluster
a corallia initiative

GEO

Hellas **G.I.S**

Thank You



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