

Earth Observation for Emergency Management

Sevilla, May 2026

About GEOSAT

European provider of very high-resolution imagery and value-added services



Owner and operator of a constellation of EO satellites. Offices in Spain and Portugal.



Global customer network and support



1 of 2 optical European VHR data providers within Copernicus CAT2



24/7 operations



Rapid tasking and delivery



16+ years of experience



6bn+ sqkm of imagery archive



SW development team for custom services



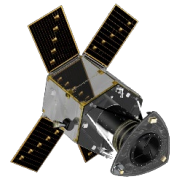
Multi-sensor satellite constellation

European Sovereign multi-sensor constellation providing intra-daily revisit worldwide, with low latency.
Operator of the Portuguese Component of the Atlantic Constellation.

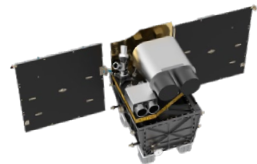
Current



GEOSAT-1
(wide swath)



GEOSAT-2
(VHR 75 / 40 SR)



GEOSAT-3
(Video / SWIR /
MS / Polarimetry)



GEOSAT-4
(VHR 70 / 50 SR)



GEOSAT-5
(VHR 70 / 50 SR)

Future (2027/28)



<50cm native
Multi-spectral
RGB NIR



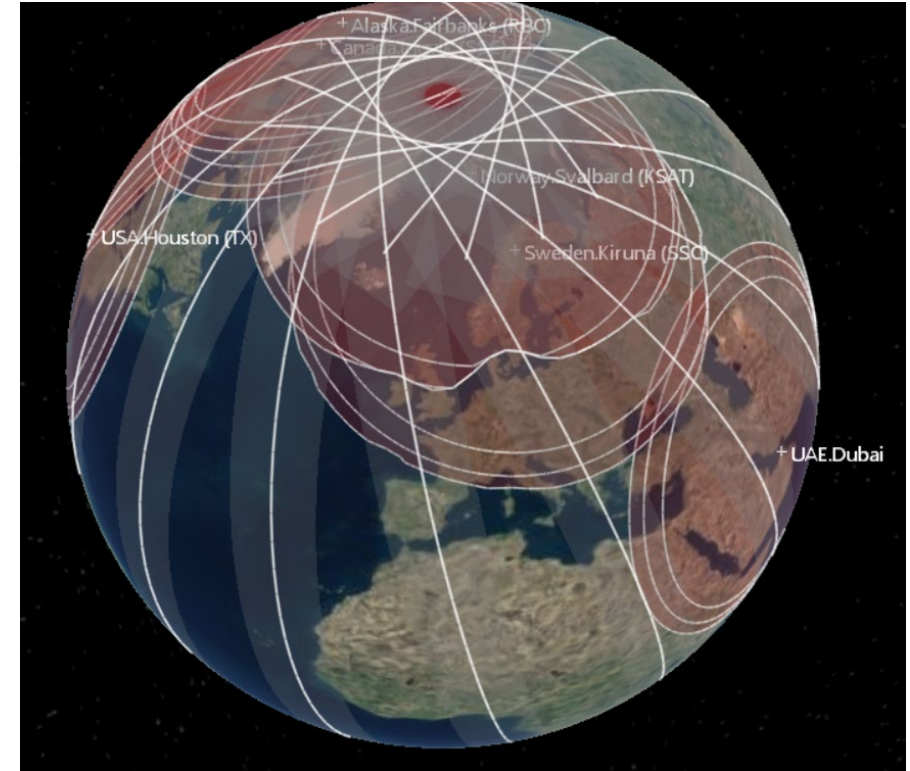


Emergency Management

Low latency - Key in Emergencies

In order to provide the lowest latency, GEOSAT has implemented:

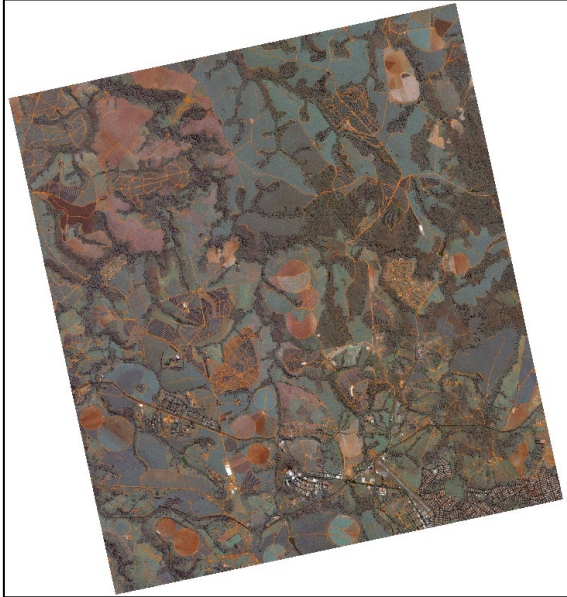
- ▶ **24/7/365 Service:** Covering the whole world. Response times of 1.5h for tasking and down to 15 min from acquisition to delivery.
- ▶ **Global and scalable Ground Station Network:** Stations ensure quasi-immediate download over Europe. Other regions configured based on Ground Station global network.
- ▶ **Robust channels:** API ordering and delivery to ensure integration into customer workflows. Operation speed and adaptability.
- ▶ **Licensing:** Multi-user licensing allows easy sharing and data usage across Public Administration.



Examples of operational ground station networks.

Automatic road detection for emergency planning

IMAGE



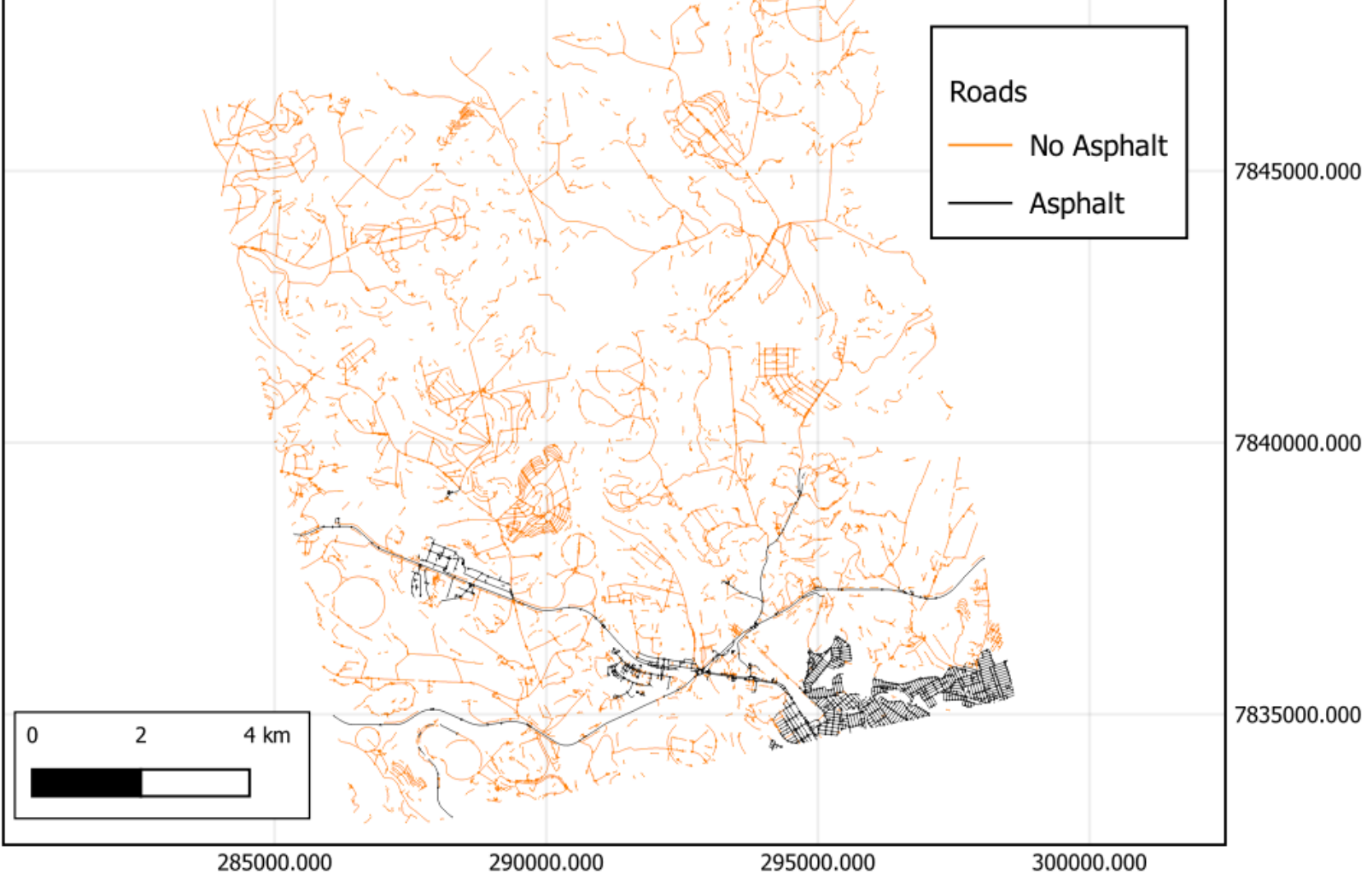
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Road detection product

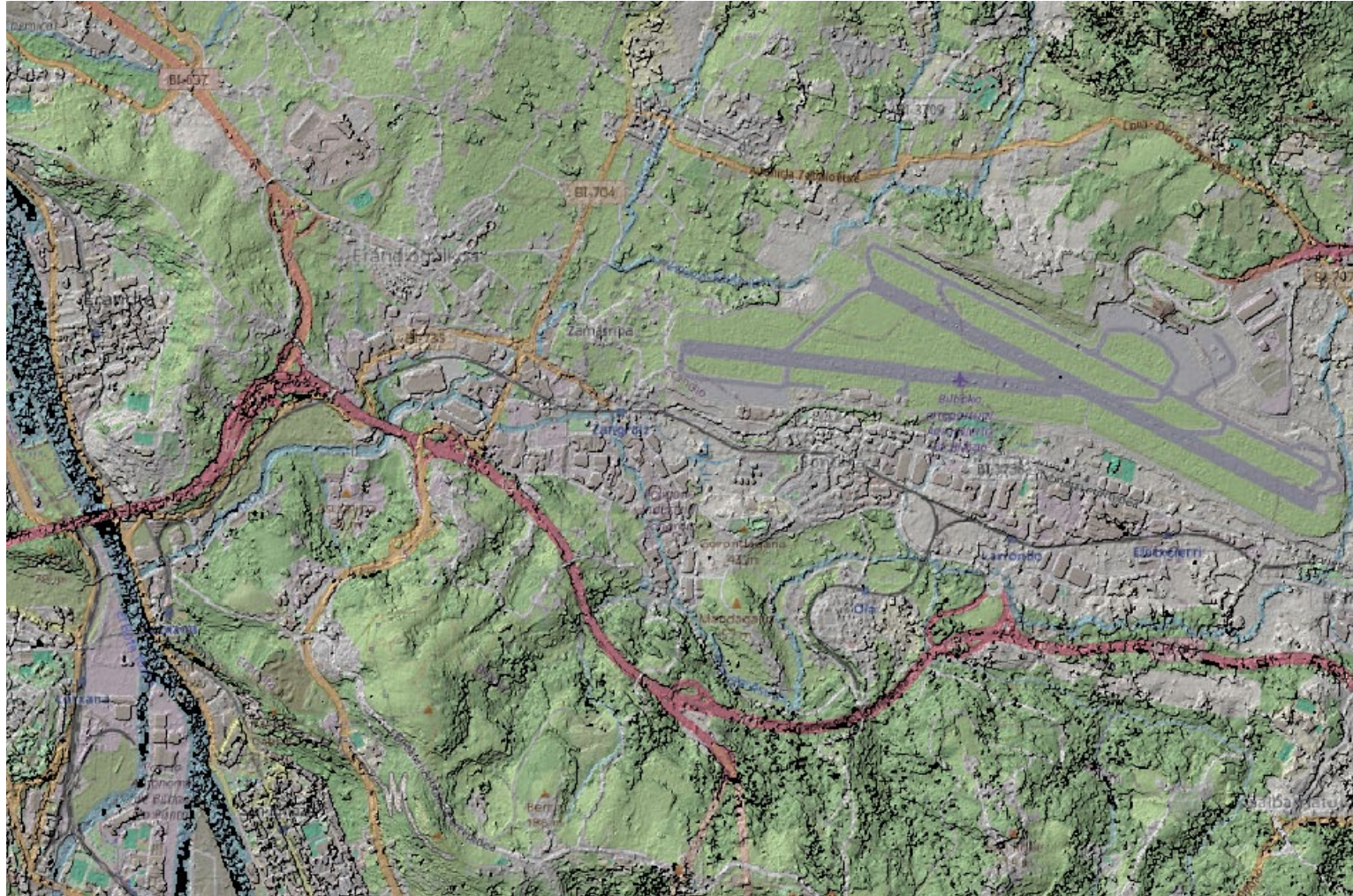
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- ROADS_DE2_PSH_L1C_000000_20250509T125520_20250509T125522_DE2_59040_55C9.shx

Results

ROADS_DE2_PSH_L1C_000000_20250509T125520_20250509T125522_DE2_59040_55C9



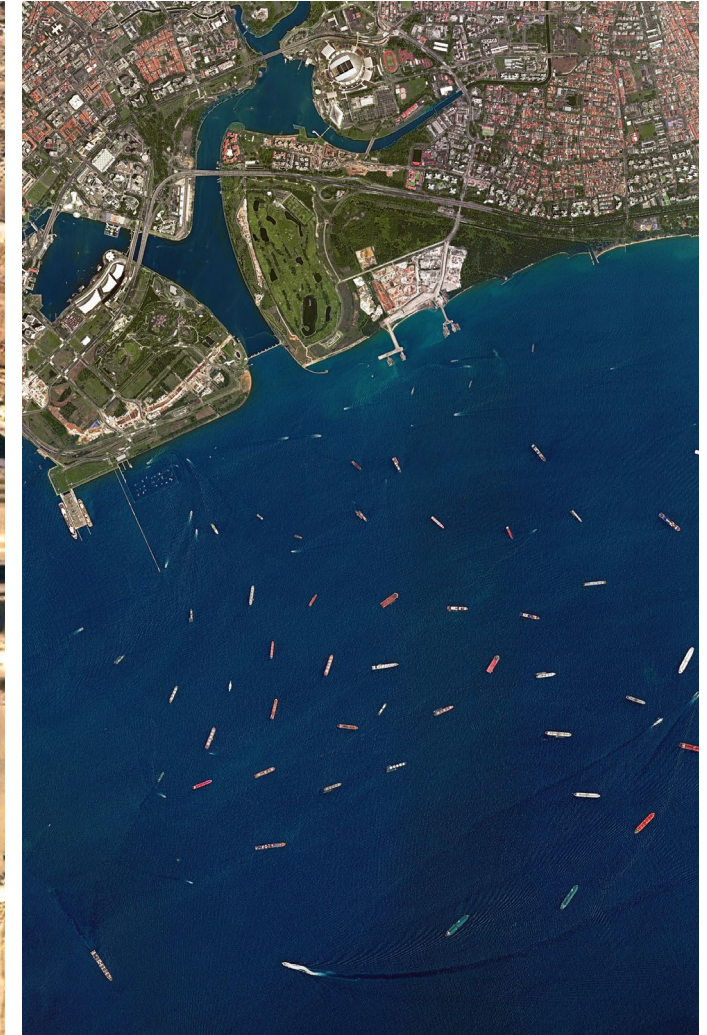
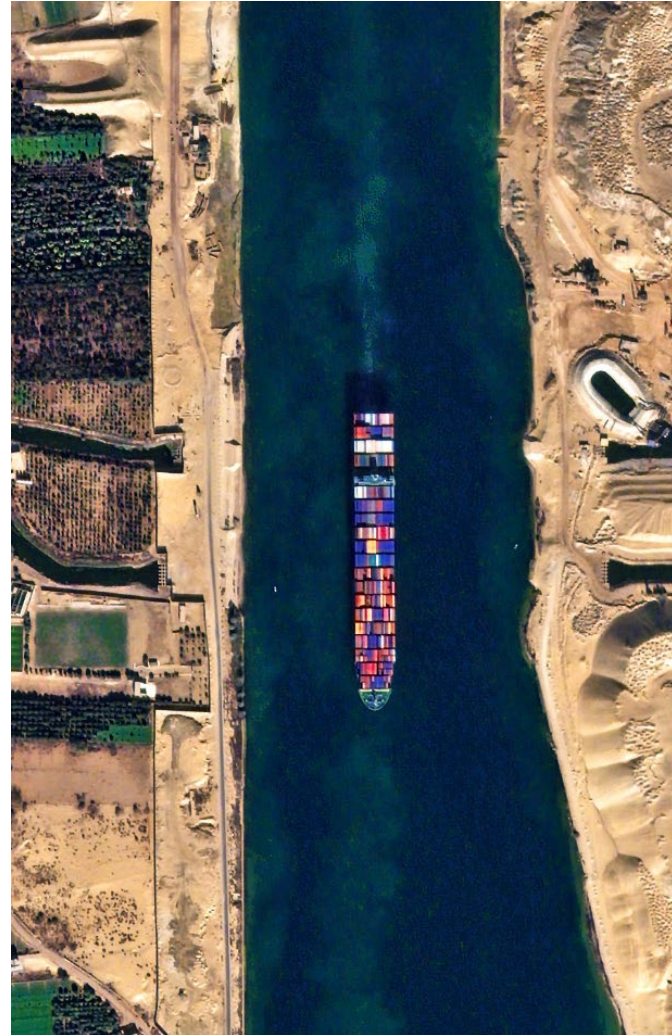
Digital Elevation Models



- ▶ Created with Stereo Satellite Imagery (multi-angle).
- ▶ Base for flood risk maps.
- ▶ Emergency planning, simulation and digital twins.

Maritime Emergency Services

- ▶ **Tip & Cue Services:** Wide area monitoring + target identification. Low latency.
- ▶ **Automatic Ship detection:** Based on AI techniques; reduces search time.



Emergency Management Examples - Valencia











Thank you!



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