

About Hisdesat

Hisdesat is a governmental services operator, in Space and other strategic domains. The company has a fleet of satellites for Telecommunications, Earth Observation and Maritime Traffic information monitoring with AIS (Automatic Identification System).

Hisdesat also has Ground Control Centers that are equipped with Tracking, Telemetry and Command antennas operating 24/7 and featuring state of the art systems to monitor and control the satellites.

The Company shareholder model relies on the joint use of public and private capital (PPP) to provide strategic services based on efficiency and excellence. The shareholders are Hispasat (43%), ISDEFE - a state owned public company belonging to the Ministry of Defense - (30%), Airbus Defence & Space (15%), Indra (7%) and SENER (5%).



Business linesSecure Communications

A governmental communications system relying on two satellites that offers coverage over two-thirds of the Earth. The Xtar-Eur and SpainSAT satellites provide flexibility and security to satellite communications in the military X and Ka bands.

Earth Observation

PAZ and INGENIO satellites feature two Earth Observation techniques, radar and optical, respectively, responding to Defense and Civilian needs. PAZ was launched in February 2018 and INGENIO is expected to be launched in early 2020.

Satellite-based AIS

A large constellation of 58 satellites receives AIS signals from all the vessels that are equipped with this system. They provide an accurate picture of the world's maritime traffic in near real time.

Space Surveillance and Tracking

Member of the Spanish consortium for the development of the National Space Surveillance and Tracking Operations Center.

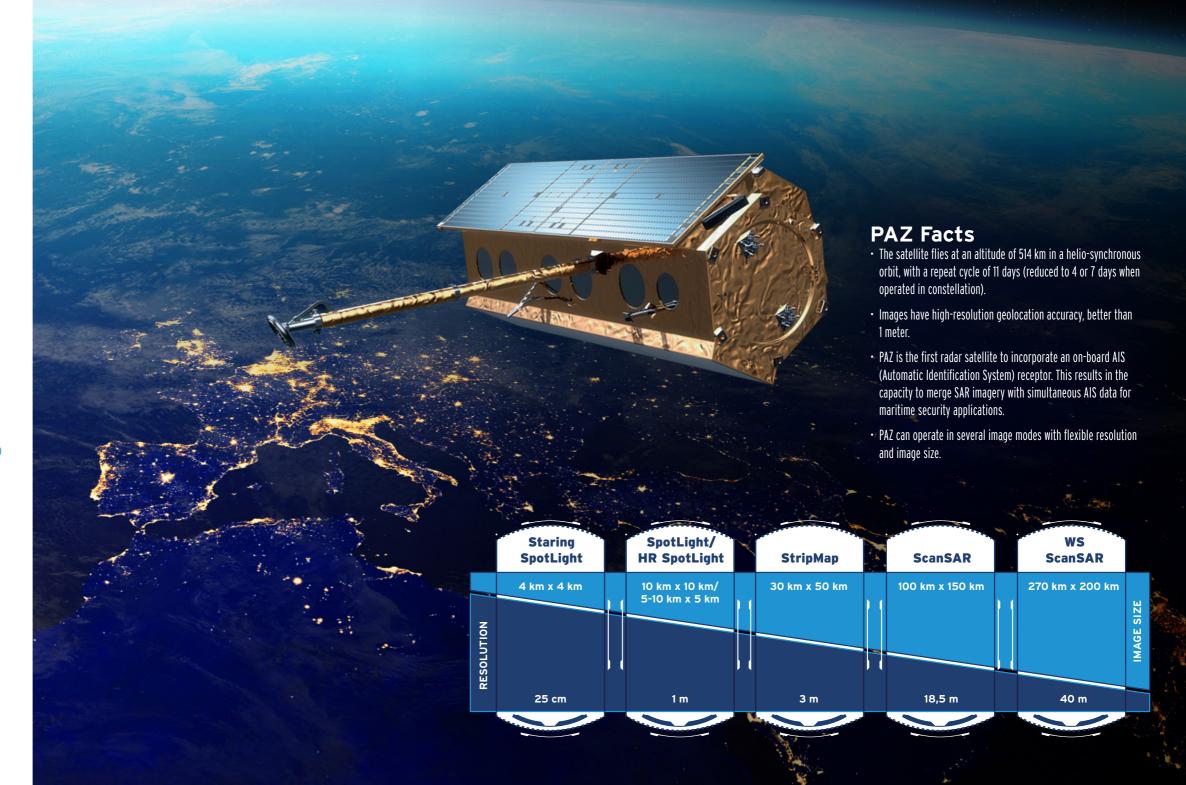
PAZ Mission

PAZ satellite, operated by Hisdesat, is the first Spanish radar Earth Observation satellite, which is included within the National Earth Observation Programme.

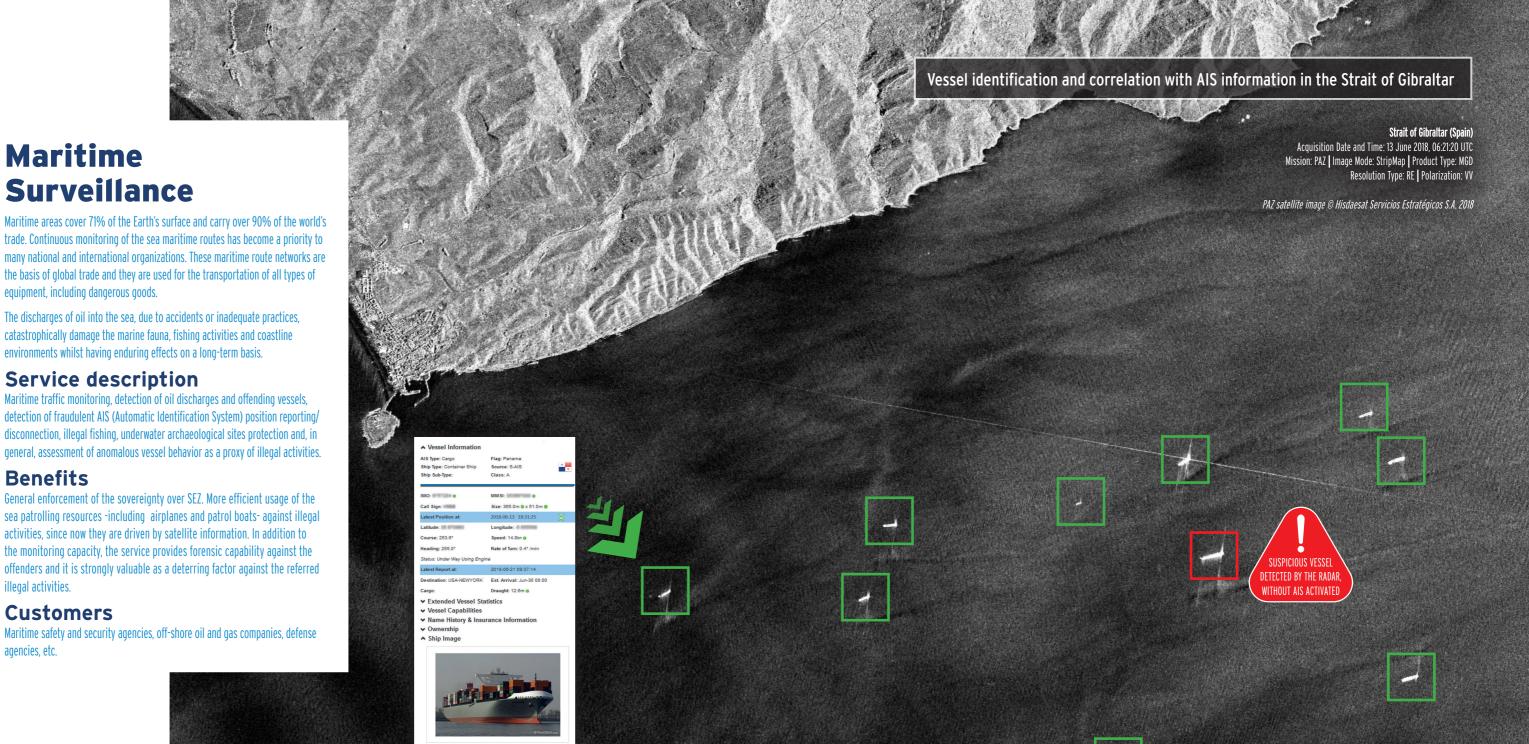
PAZ was launched on 22nd February 2018 on-board of a Falcon 9 rocket from Vandenberg Air Force Base (California).

The satellite collects high-resolution radar imagery for applications in Defense and Civilian domains. The 1,400-kilogram satellite carries an X-Band Synthetic Aperture Radar (SAR) capable of delivering imagery with ground resolution up to 25 cm, capturing around 100 scenes per day under all-weather conditions.

PAZ satellite is positioned in the same orbit than TerraSAR-X and TanDEM-X satellites, from Airbus Defence & Space, in order to operate in constellation with them. This results in significant reduction of the revisit time and an increase in the daily acquisition capacity.

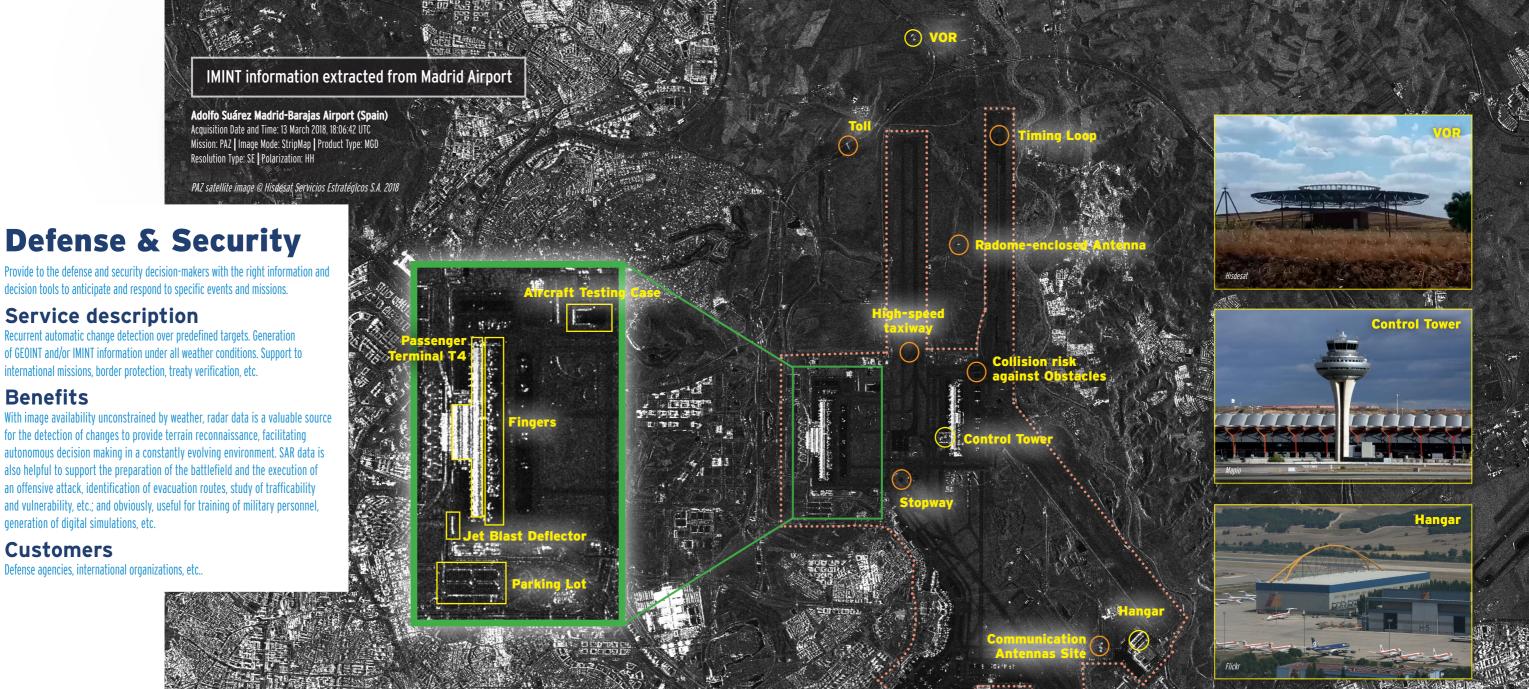


Maritime Surveillance **Emergencies** Urban Planning, Civil Engineering Mapping & Infrastructures **Environmental Defense** Monitoring & Security



agencies, etc.





Risks & Emergencies

Risks and emergencies require rapid response and planning. High-resolution radar imagery provides relevant and up-to-date information to monitor staging areas, damage assessment, etc. Typical events are floods, earthquakes, volcanic eruptions and manmade disasters.

Service description

Provision of knowledge on the territory prior to the disaster. Assessment of the event impact and extent. Monitoring of ground displacement as a volcanic risk precursor, ground subsidence due to sinkholes or underground manmade activities, landslide monitoring, etc.

Benefits

Ilmproved response during a specific event thanks to the advanced change detection of radar for damage assessment. Specially fitted for flood mapping thanks to the cloud-through-viewing during the event. High resolution ground deformation for geohazard risk management.

Customers

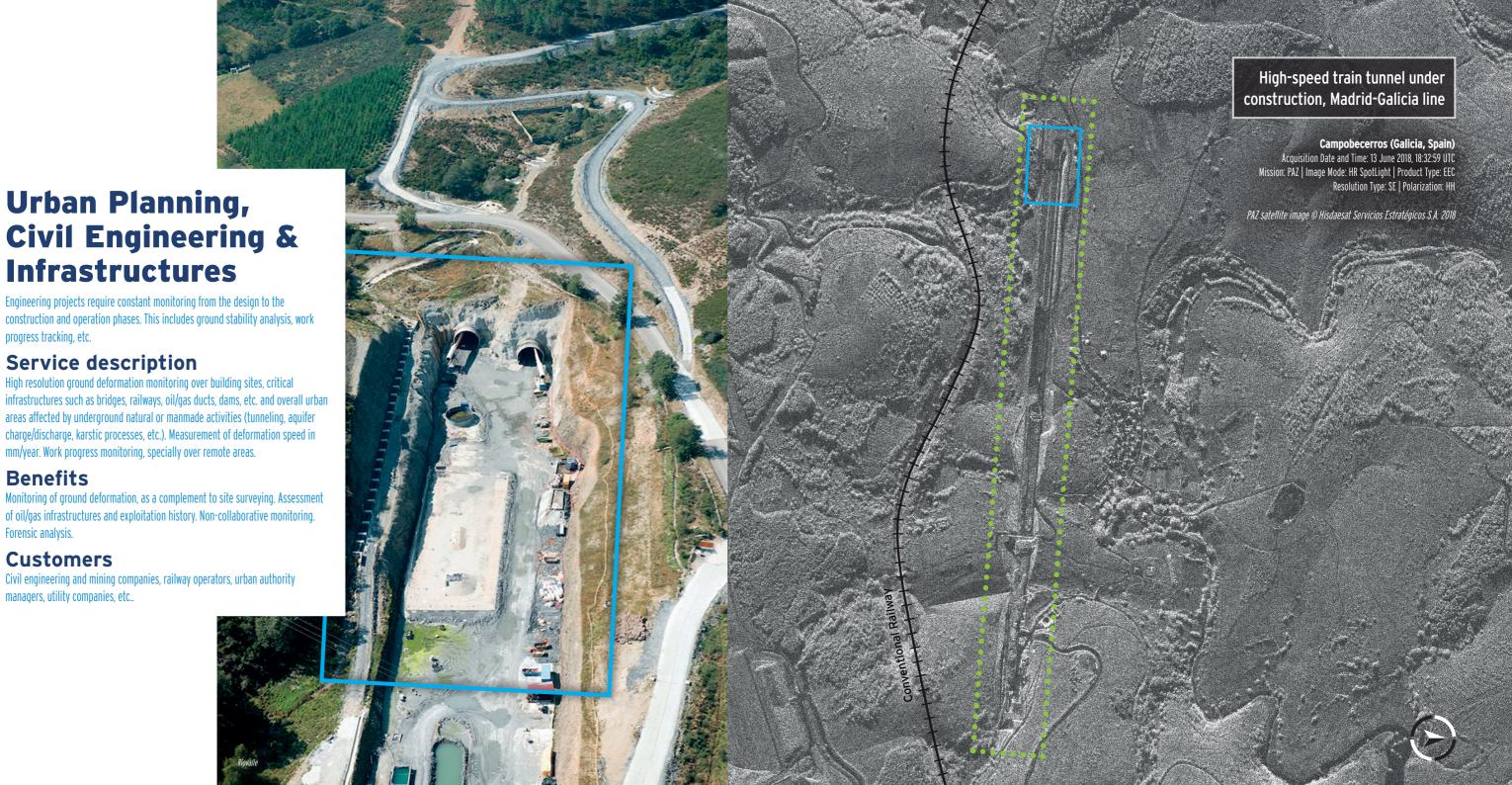
Governmental institutions (emergency response teams and civil protection), insurance and reinsurance companies, etc.

Simulated delineation of a flood event in the Ebro basin

Zaragoza City (Spain)

Acquisition Date and Time: 13 June 2018, 06:19:46 UTC
Mission: PAZ | Image Mode: StripMap | Product Type: EEC
Resolution Type: RE | Polarization: HH

PAZ satellite image @ Hisdaesat Servicios Estratégicos S.A. 2018



progress tracking, etc.

Benefits

Forensic analysis.



