

About PAZ

earth.esa.int/eogateway/missions/PAZ

What

PAZ is an **X-band Synthetic Aperture Radar (SAR) mission**, built to serve the security and defence needs of the Spanish Government, while including civil applications

When

Launched on

22 FEB 2018

On-board of a Falcon 9 SpaceX rocket from Vandenberg Air Force Base, California (USA)

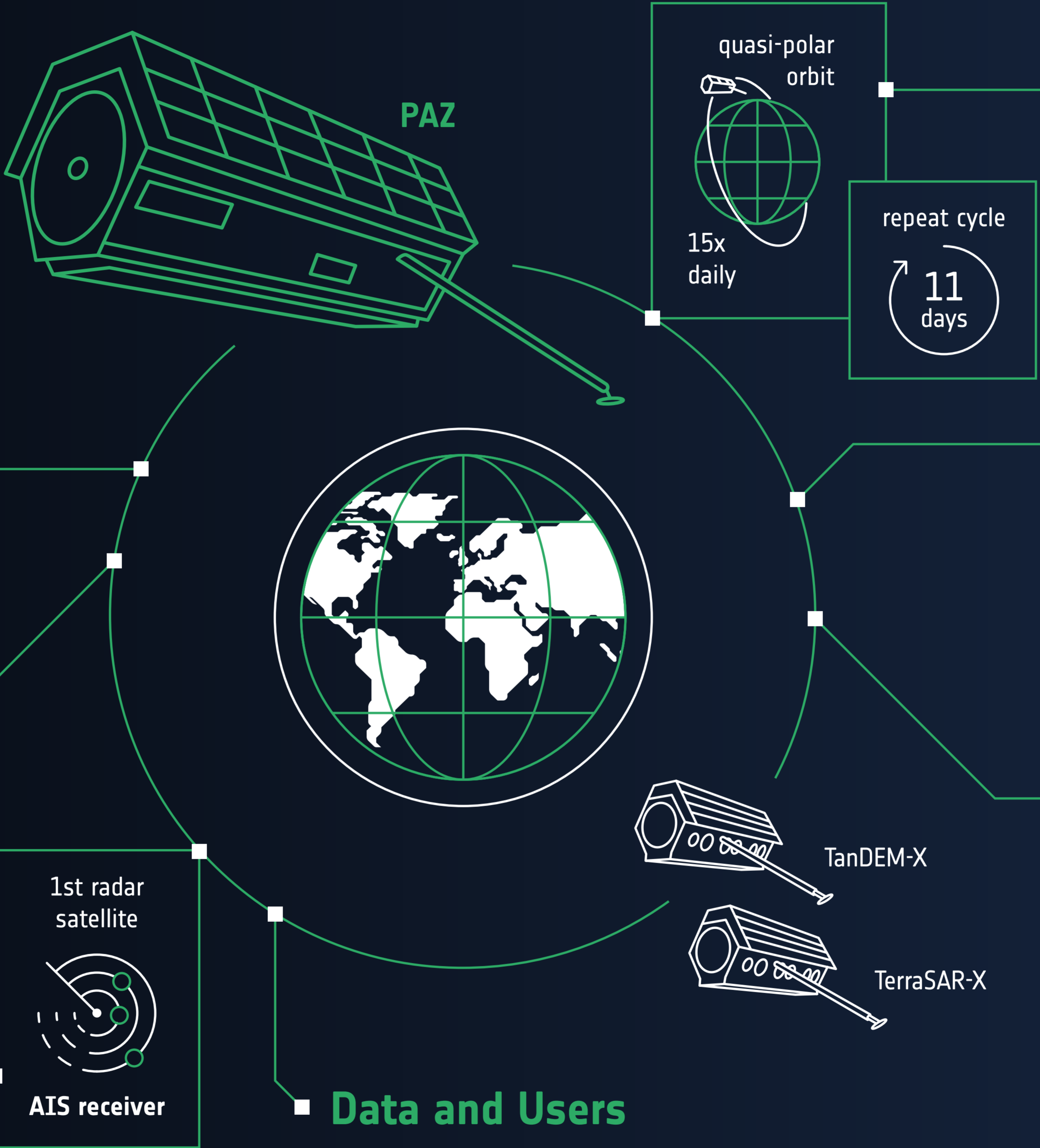
Built By

Designed and built by Airbus Defence and Space, together with a consortium of 18 Spanish companies and universities, the satellite is owned, operated and commercialised by Hisdesat, the Spanish government satellite services company

How

100 25cm

Equipped with side-looking X-Band SAR using active phased array antenna technology, PAZ can take more than 100 images of up to 25 cm resolution daily, regardless of weather conditions, both during day and night. PAZ is the **first radar satellite to incorporate an on-board Automatic Identification System (AIS) receiver**, having the capacity to merge SAR imagery with simultaneous AIS data for maritime security applications



Coverage

300,000km²

Covering an area of over 300,000 square km and orbiting Earth 15 times daily, PAZ can access any location on Earth every 24 hours, thanks to its agility and slightly inclined quasi-polar orbit, with a repeat cycle of 11 days

Constellation

PAZ operates in the same orbit of the twin satellites TerraSAR-X and TanDEM-X, and the three work together as a high-resolution Radar constellation, based upon a commercial agreement between Hisdesat Servicios Estratégicos S.A. and Airbus Defence and Space GmbH. The three almost identical spacecraft also feature identical ground swaths and imaging modes

Applications

PAZ covers multiple military and civil applications

- Rescue
- Maritime Surveillance
- Tactical Support
- Border Control
- Natural Disaster Management
- Environmental Control
- Risk Management and Counter-piracy Actions
- Urban Planning, Civil Engineering and Infrastructures

Data and Users

PAZ Image Products can be acquired in several image modes with flexible resolutions from 25 cm to 40 m, and different scene sizes

Data Access: earth.esa.int/eogateway/catalog/PAZ-full-archive-and-new-tasking