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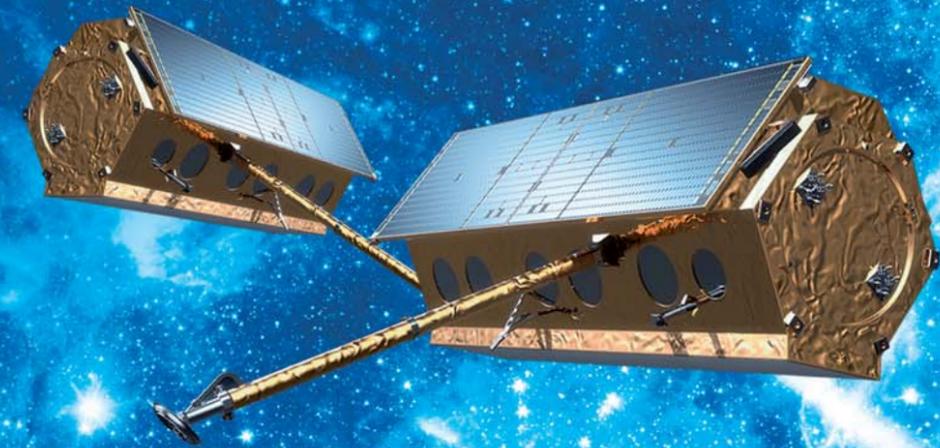
**TerraSAR-X/PAZ
Constellation**

TerraSAR-X/PAZ Constellation

The Spanish PAZ satellite, owned by the operator Hisdesat, will be located in the same orbit of TerraSAR -X and TanDEM -X, the observation satellites from Airbus Defence & Space. The three satellites, virtually identical, operating in a constellation, providing data to customers more flexibly and effectively with a wide range of advantages:

- Significantly reduced revisit time (at least to 50 %).
- Reduced time for interferometric actions of 11 days on a single satellite, 4 or 7 days depending on the cycle, with 2 satellites in the constellation.
- Improved acquisition capabilities for applications Near Real Time (NRT), change detection, monitoring and map generation.
- Simplicity in making requests through a single access web portal (unique catalog and price list).

The satellites have identical scan width and acquisition modes, including the new Spotlight and ScanSAR Staring Extended.



Automatic Identification System (AIS)

The satellite PAZ has the option of receiving AIS (Automatic Identification System) from ships. Along with the new extended ScanSAR mode constellation is a big step towards a more effective maritime surveillance information may be combined (AIS) with the SAR image detecting ships and operational routes.

Radar capabilities constellation enables the supply:

- No weather constraints for covering specific areas, anywhere worldwide.
- Receive daily revisit any point on the earth's crust.
- High information content and reliable interpretation based on the use of the radar data.
- Improved availability and accessibility to the data, when and where they are needed, according to the temporal and spatial requirements of the users.

Managing the radar capabilities, Hisdesat constellation can provide worldwide customers with unique and flexible access to different images with a wide coverage, the capacity of getting detailed contents, new and reliable collections of large files and excellent responsiveness skills.

Applications

A wide range of time-critical and data-intensive applications will benefit from this constellation approach.

- Surface movement monitoring applications will enable engineering and mining companies to efficiently monitor and manage their operations and avert damage to infrastructure and human lives.
- Maritime surveillance applications including ship detection, oil pollution monitoring and sea ice observation.
- Humanitarian organizations and crisis intervention will have faster and secure access to data over affected areas to support efficient coordination and management of rescue activities.