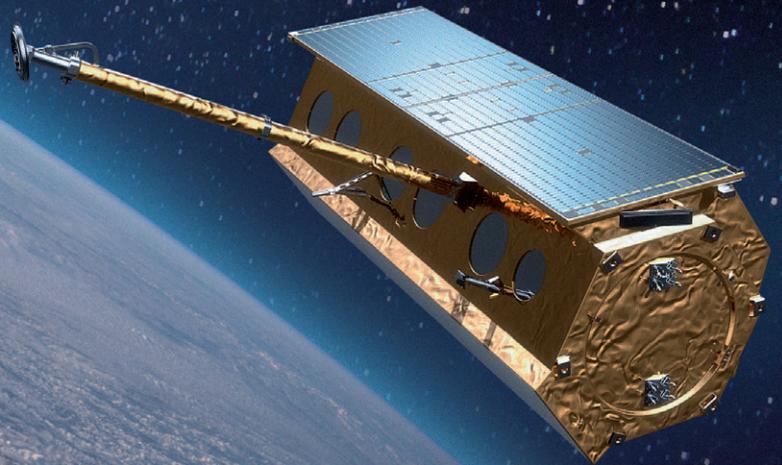
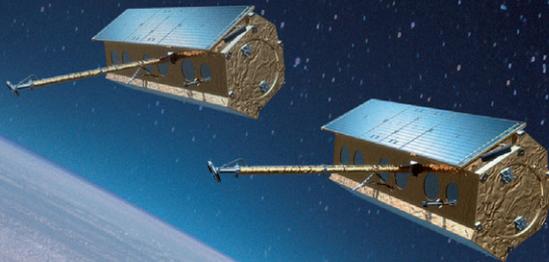




DEFENCE AND SPACE
Intelligence

Radar Constellation

Radar Satellite Services
of Unique Precision,
Quality and Reliability



AIRBUS

Precision – Reliability – Revisit

All the advantages of radar image acquisition in a unique constellation: Near real-time, highly accurate and reliable Earth observation – independent of weather and daylight conditions.

Made for Results

Airbus Defence and Space and Hisdesat's unique Synthetic Aperture Radar (SAR) satellite constellation is geared to serve users' needs. Its extraordinary acquisition success and its high reactivity make the constellation the first choice for users seeking the best-in-class solution for crisis management and innovative business solutions.

The Constellation consists of three commercially available radar sensors (TerraSAR-X, TanDEM-X & PAZ) that max out the versatile advantages of this highly precise technology. Using spaceborne SAR we can provide accurate measurements, unmatched geometric accuracy and provide highly precise information of any point on Earth.

The satellites' image quality and resolution of up to 25cm is unique in the market in terms of space-born commercial radar.

The constellation's capacity empowers both data-hungry services and time-critical missions, enabling a broad array of applications:

- Monitoring of surface movement – e.g. oil and gas fields, civil engineering structures
- Detection and identification of objects and their changes – e.g. for image intelligence applications (IMINT, GEOINT)
- Monitoring of object movement – e.g. ship traffic, oil spills, drift ice

Benefits

- Resolution from 25cm to 40m
- 6 imaging modes
- Wide area monitoring
- Up to 12hrs revisit time
- 4/7 days interferometric revisit cycles
- Highest geolocation accuracy (<1m)
- Acquisition capacity of 5.4Mio km² per day, completely cloudless and weather-independent
- Capacity suits data-hungry missions
- High reactivity
- Source for ground control points

Radar and optical satellite data can be combined to add value to both existing services as well as new applications. The easy access to Airbus Defence and Space's full-fledged constellation portfolio allows users to select the optimal satellite solution, based on the respective application's thematic, temporal and spatial requirements.

The Power of Radar Satellite Images

Fully Operational at Night
E.g. monitor drift ice in regions without daylight

Wide Area Monitoring
Suited for e.g. maritime surveillance

Multiscale Elevation Models

- Vertical accuracy up to 2m
- Global, consistent, seamless

Pinpoint Detail

- Down to 0.25m resolution
- Image interpretation close to optical

Millimetre-accurate Monitoring

- Remote surface movement monitoring
- High temporal and spatial resolution

Airbus Defence and Space

Australia, Brazil, China, Finland, France, Germany, Hungary, Singapore, Spain, United Kingdom, United States

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