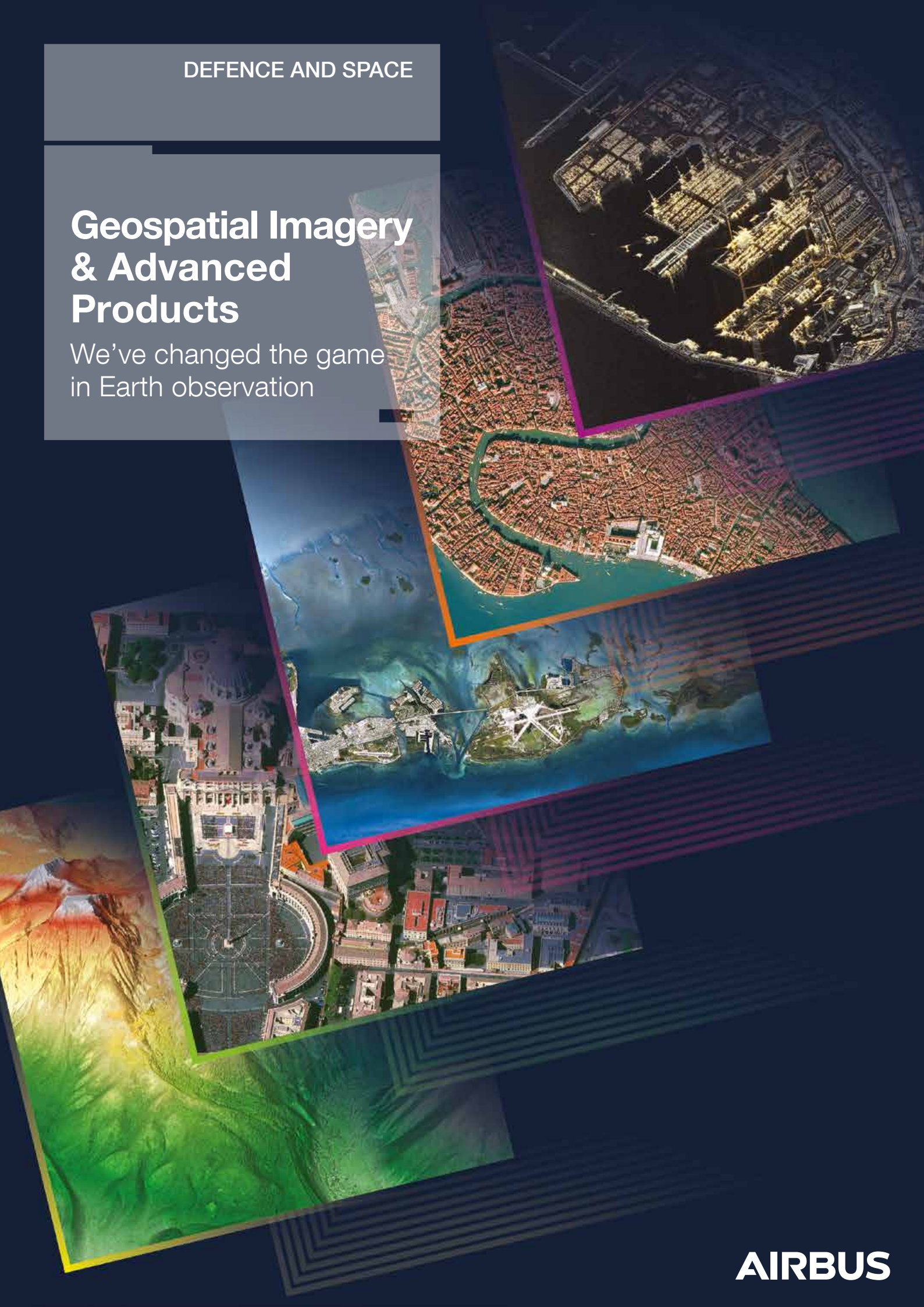


DEFENCE AND SPACE

Geospatial Imagery & Advanced Products

We've changed the game
in Earth observation



AIRBUS

The Airbus constellation

Access imagery where and when you want from the Airbus unmatched constellation made of the world's most comprehensive commercial Earth observation satellites.

With exclusive access to its smart constellation of optical and radar satellites, our extensive portfolio spans the entire geo-information value chain and provides the right information at the right time.

Pioneering the future of Earth observation

With more than **40 years of experience**, Airbus allows its customers to benefit from the best that space technology has to offer notably through Pléiades Neo, Airbus' most advanced optical constellation, offering the **highest resolution** combined with the greatest location accuracy.

Our constellation **delivers outstanding acquisition and agility performances**, offering wide coverage and fine detail with **utmost reactivity and intensive monitoring capability**.

KEY BENEFITS

From the big picture to the finest detail

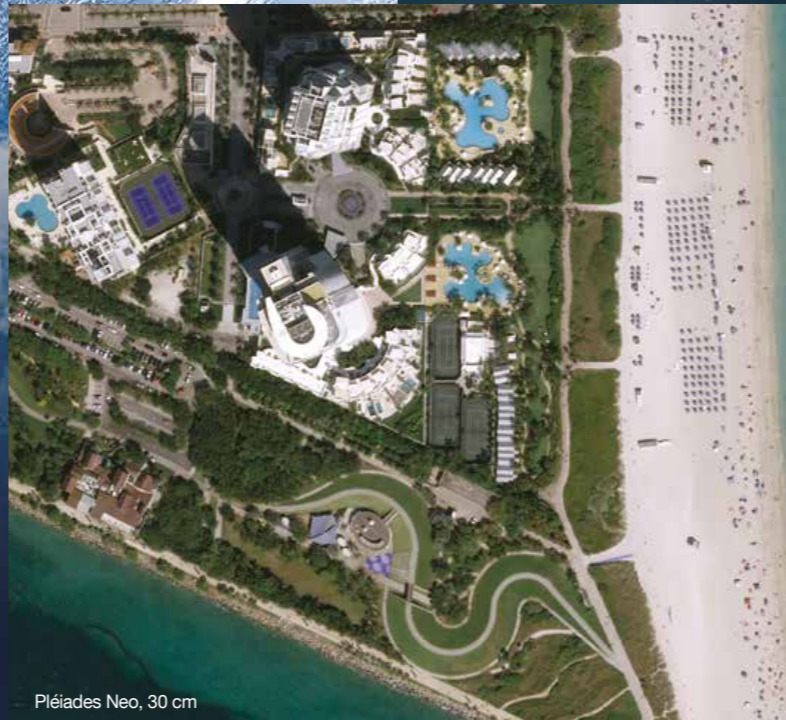
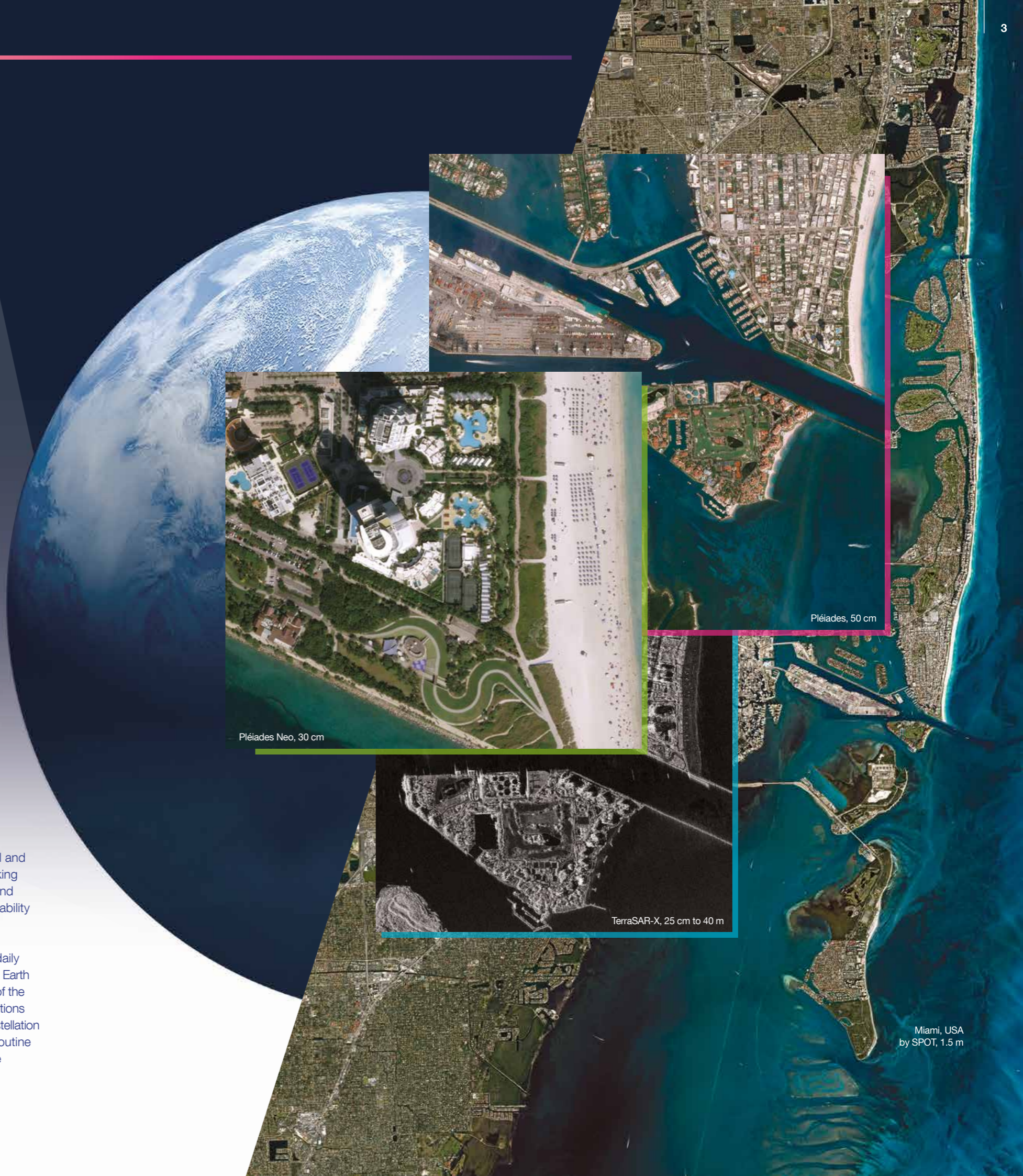
- Ideal combination between coverage and resolution
- From local insight (1:2500) to nation-wide mapping
- From detection up to classification and identification

Reliable, extensive and accurate

- Get access to a comprehensive portfolio of premium imagery, high-quality elevation models, global layers and innovative analytics capabilities
- 24/7 access through the OneAtlas platform for imagery needs
- Fresh and extensive +35 years archive

Timely image acquisition

- Flexible sensors (optical and radar) with multiple tasking modes: mono, stereo and tri-stereo, superior availability for ultra-fast delivery
- Natively optimised tasking plans allowing daily revisits over any place on Earth
- Acquisitions regardless of the weather or lighting conditions thanks to our radar constellation
- From anticipation and routine to emergency response tasking options



Pléiades Neo, 30 cm



Pléiades, 50 cm



TerraSAR-X, 25 cm to 40 m

Miami, USA by SPOT, 1.5 m

We've changed the game in Earth observation

Pléiades Neo

📷 30 cm

Swath: 14 km

Spectral bands:

R, G, B, Deep Blue, Red Edge, NIR, Panchromatic

Revisit capacity:

Daily, anywhere

Daily acquisition capacity:

1,000,000 km²

Pléiades

📷 50 cm

Swath: 20 km

Spectral bands:

R, G, B, NIR, Panchromatic

Revisit capacity:

Daily, anywhere

Daily acquisition capacity:

700,000 km²

Vision-1

📷 87 cm

Swath: 20.8 km

Spectral bands:

R, G, B, NIR, Panchromatic

Revisit capacity:

Daily to 8 days, anywhere depending on latitude and partner satellites

Daily acquisition capacity:

20,000 km²

SPOT

📷 1.5 m

Swath: 60 km

Spectral bands:

R, G, B, NIR, Panchromatic

Revisit capacity:

Up to daily, anywhere

Daily acquisition capacity:

3,000,000 km²

Radar constellation

📷 From 25 cm to 40 m

Swath: 270 km

Imaging modes:

SpotLight, StripMap, ScanSAR

Revisit capacity:

Daily for most latitudes

Daily acquisition capacity:

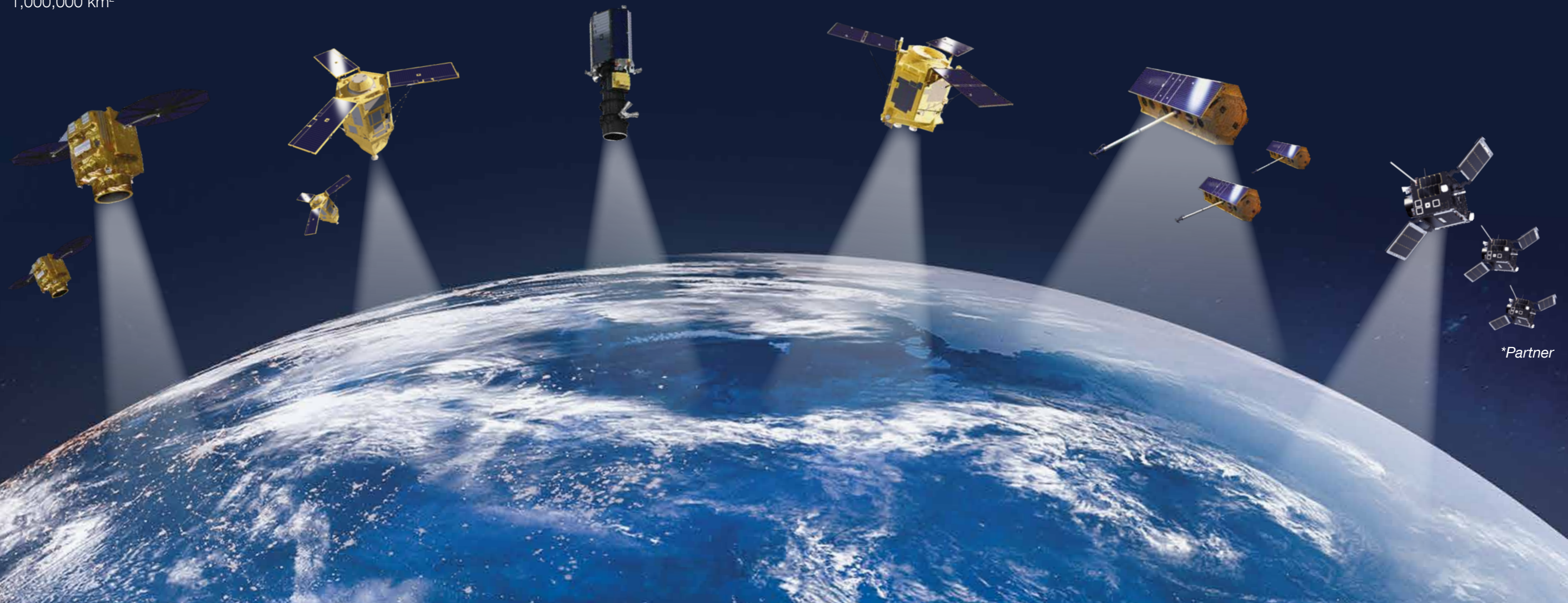
Up to 5,400,000 km² (Wide ScanSAR Mode)

HawkEye³⁶⁰ Radio Frequency*

Frequency range : from 30 MHz to 18 GHz

Revisit capacity:

Less than 1 hour everywhere on the globe



*Partner

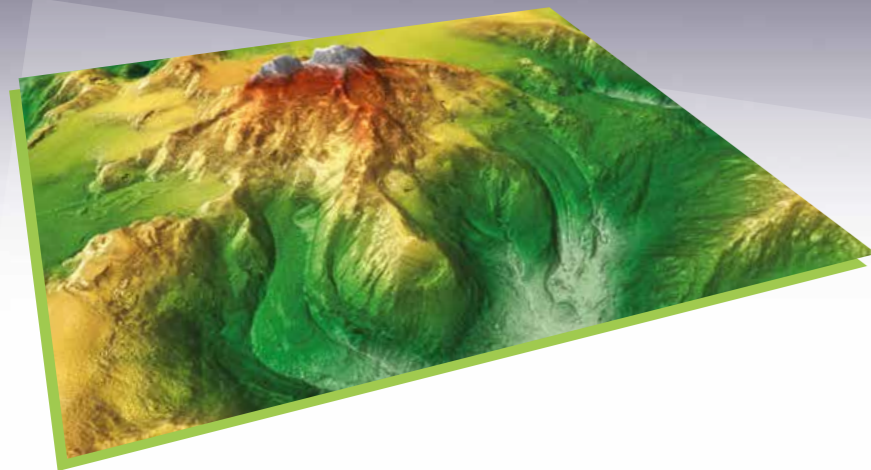
Elevation & Reference Layers

Enhancing your data with our highly precise range of geometric information

Airbus offers the most comprehensive range of digital elevation models, global basemap and 3D coordinate data, providing highly accurate information anywhere on Earth. Be it defence mission planning, targeting, global and urban mapping, aviation, infrastructure planning – you will find your solution here.

Worldwide Elevation Data

Whatever your area of interest and your usage for wherever in the world, we have the right elevation model for your needs. We offer elevation models from global to local, in different resolutions and accuracies, for off-the-shelf or on-demand products. All elevation products are available in DSMs (Digital Surface Models) and DTMs (Digital Terrain Models).



WorldDEM™ Neo

WorldDEM™ Neo is the most accurate global satellite-based digital elevation model available today. With unique data quality and level of detail, it facilitates a wide range of applications such as line-of-sight analysis,

hydrological modelling, satellite imagery orthorectification, and much more. Worldwide availability makes it the most robust reference layer model for risk assessments and investigating global phenomena.

- 5 m** Resolution
- 1.4 m** Absolute Vertical Accuracy
- Global coverage**

Space Reference Points (SRPs)

Airbus Space Reference Points (SRPs) is a global reference layer consisting of a set of image chips, every 2 km², with a 3D centre coordinate. The database is available almost everywhere worldwide, supporting image and orthorectification processing. It can register all kinds of optical images even with poor native location.

- 2 m** Resolution
- 3 m** Horizontal accuracy
- Global coverage**



Elevation 0.5

This next level high-resolution elevation model offers 50 cm resolution based on Pléiades Neo stereo and tri-stereo imagery with exceptional 3D photorealistic quality. This outstanding resolution and accuracy support new use cases, such as digital twin visualisation to simulate smart city concepts, replacing the need for drone or aerial data.



- 0.5 m** Resolution
- up-to-date** data acquisitions
- 0.5 m** Vertical accuracy

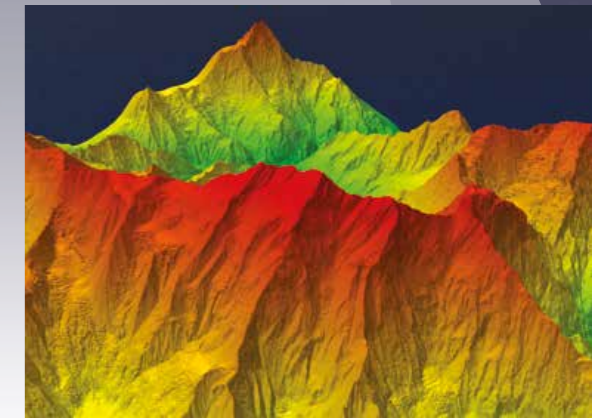
Elevation 1 & 4

Elevation 1 & 4 are ideal solutions for accurate 3D modelling in 1 m and 4 m resolutions. Based on Pléiades stereo and tri-stereo optical satellite data, 1 & 4 digital elevation models deliver highly precise altimetric information providing the best elevation data of choice for infrastructure and engineering projects.

Elevation 1: ideally suited for areas with little vegetation and few buildings.

Elevation 4: applicable for any kind of relief – urban or environmental.

Orthomosaics with 50 cm resolution are optional and available for both products.



Basemap

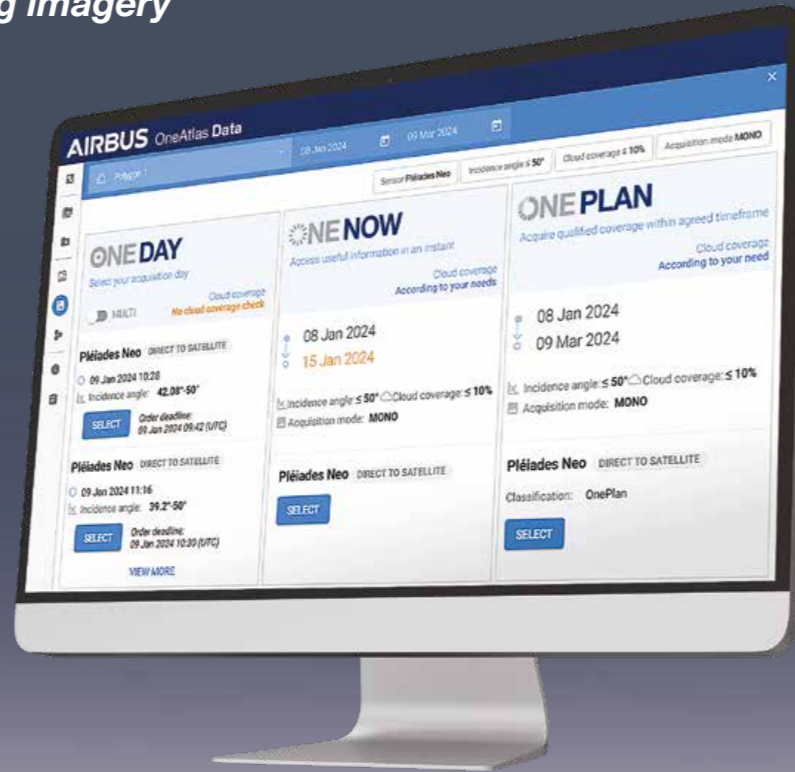
OneAtlas Basemap is a highly accurate, expertly curated global satellite imagery reference layer available off-the-shelf. Fresh, premium quality imagery curated by Airbus experts ensures consistent, complete and nearly cloud-free coverage with minimised haze and seasonal differences between contiguous images. OneAtlas Basemap provides a flexible and cost-effective solution for mission/project planning, change detection, mapping/route updates and feature extraction. It also works well as a background layer in location-based apps. Purchase the complete global layer or just an area of interest and access it via streaming, download or API.

One Tasking

Committed to delivering imagery

Thanks to an unprecedented commitment to deliver new imagery collections, One Tasking provides answers and support in any situation exactly when and where you need it: from the most basic map update up to emergency response, land use analysis, mission planning or frequent insights through reliable monitoring.

Commissioning a satellite and obtaining the imagery you requested has never been easier!



ONE DAY

Choose your acquisition day

Imagery acquisition for a specific day is now risk-free. 24 hours before your acquisition date, you receive a weather forecast to let you confirm, postpone or cancel your request at no cost.

MULTI-ACQUISITIONS

Get coverage on a regular basis

Whether you are dealing with long-term changes or highly dynamic situations, get the required intelligence at the frequency you choose. For highest frequencies, our cloud cover commitment ensures you pay only for the most useful results.

ONE NOW

Access useful information in an instant

When immediate imagery is required, our satellites can be tasked to deliver valuable insights in the shortest possible timeframe. Don't panic if it's cloudy – we keep collecting images of your area until we are successful.

ONE PLAN

Obtain qualified coverage within an agreed timeframe

You select your timeframes, dates and preferred sensor – we ensure you receive the right qualified coverage, perfectly matching your project milestones.

Pléiades Neo HD15

Sharper details and better visual rendering with Pléiades Neo HD15

This new product brightens the colours of the imagery and provides **sharper details** for **easier interpretation**.

Information is intensified thus making the visual rendering better, which allows linear features to be easily identified.



Key Features

- Pléiades Neo HD15 helps identify the smallest elements in the image and enables enhanced monitoring
- Better visual rendering allows for more details to be seen, and is a strong input for mapping and urban applications
- The visual sharpness of Pléiades Neo HD15 helps artificial intelligence and machine learning applications better detect assets on the ground.
- Available in primary or orthorectified geometric processing

Access to Airbus' imagery

We are not just promising the Earth, we are delivering it !

OneAtlas

Easily access the imagery you need, when you need it

In today's world, information is everything, but it can be a challenge to come by the right information at the right time and in the right format. Airbus supports its customers with geospatial technologies and capabilities to strengthen how they plan and respond to challenges and missions – with greater speed and higher certainty.

Thanks to OneAtlas, users can get quick access to satellite imagery services when and where they need it:

- Task the optical and radar satellites to acquire new imagery over your area of interest
- Stream and download data from the Living Library, a curated archive that consists of 30 cm, 50 cm and 1.5 m resolution data. Users also have access to the full archive to stream and download data after product warm-up
- Purchase imagery how you need it via a subscription or pay-per-order mode. Scalable options are available to support small businesses to large enterprises
- Access other data sources including reference layers, 3D Models, and analytics



Direct Receiving Stations

An unrivalled access to information tailored to your needs

A Direct Receiving Station (DRS) provides you with direct access to our complete Earth observation satellite constellation that are 100% commercially accessible: Pléiades Neo, SPOT, Pléiades, TerraSAR-X and TanDEM-X satellites.

As a DRS partner, you can manage new data acquisition and archive data requirements regarding Very High Resolution (VHR), High Resolution (HR) and Synthetic Aperture Radar (SAR) imagery, as well as digital services provided on the cloud or locally at your DRS.

Key features

- Modular and secured turnkey solution to manage the whole satellite image production chain including tasking, acquisition, reception and distribution
- Allows tasking, acquisition and archiving of image telemetry for SPOT, Pléiades, TerraSAR-X and Pléiades Neo
- System works interactively with the Main Operating Centre (MOC) located at the Airbus offices
- Infrastructure: antenna to receive telemetry from the satellites, a terminal to process telemetry into image product and a data management system to display and disseminate data
- Installation of the equipment by Airbus, including training programmes, 24/7 support for urgent requests, 7/7 for standard requests, the highest Service Level Agreement (SLA) for DRS as well as technical assistance and maintenance





Airbus Defence and Space

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

This document is not contractual.
Subject to change without notice.

© Airbus DS 2012 - 2023

© CNES 2019 - 2023, Distribution Airbus DS

© DLR e.V. 2022 - 2023, Distribution Airbus DS GmbH

© DLR e.V. 2021 and © Airbus DS GmbH 2021

All rights reserved.

AIRBUS