The World in 3D

Reaching new heights with our versatile multidimensional layers

Highly accurate geolocation (thanks to SRPs and GCPs)

Tailored to needs, with flexible min. AOI size

Globally available

All layers : DSM, DTM and 3D textured models

High level of details and realistic 3D models

Rapid on-demand delivery

Off-the-shelf affordable DEM

Versatility across industries, **wide-ranging applications**

Broad range of high resolutions, from 5m down to 0.5m

Stereo imaging excellence (optical and radar)

Discover our Elevation Portal!
Also accessible from our OneAtlas platform, it offers our WorldDEM Neo layers (DSM, DTM)
https://elevation.oneatlas.airbus.com

Contact us

Airbus Defence and Space
Australia, Brazil, China, Finland, France, Germany, Hungary, Singapore, Spain, United Kingdom, United States

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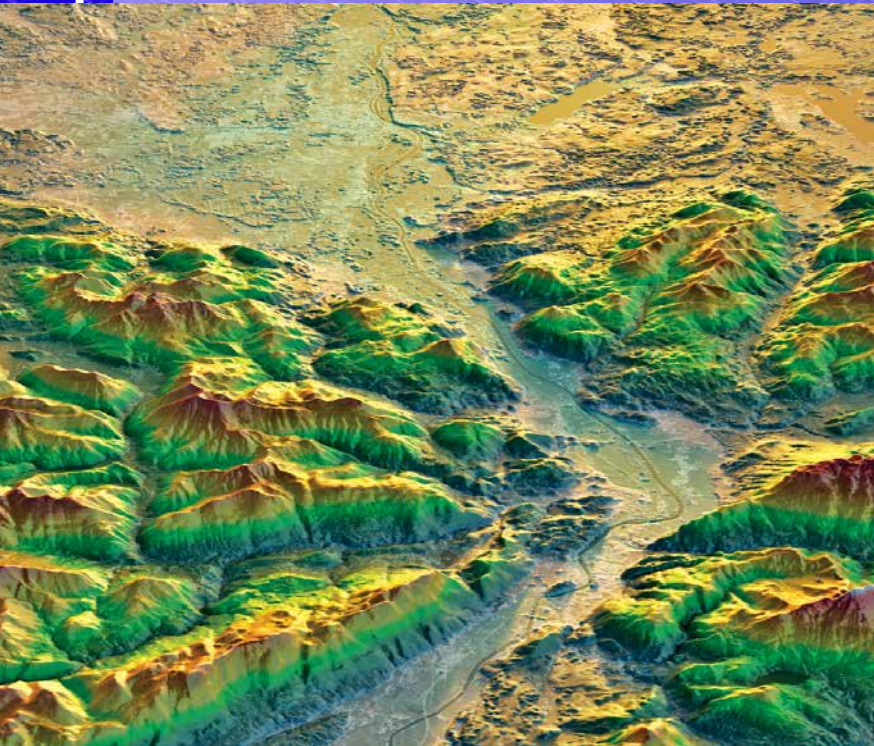
Enhancing your Data with our highly precise range of 3D Geospatial Information

Airbus is your key 3D partner, offering on-demand and off-the-shelf digital elevation models and textured 3D models with the most comprehensive range of resolutions at global scale. We provide highly accurate information anywhere on Earth.

Versatile and flexible, our products meet the needs of many industries, including Defence (intelligence and mission planning), global and urban mapping, exploration and prospection, location-based services, aviation, infrastructure and civil engineering, smart cities... They even serve as foundations for tailored Digital Twins, accurately and realistically replicating our world. Whatever your needs and area of interest, you will find your elevation and 3D model here.

All our elevation products are available in DSM (Digital Surface Model) and DTM (Digital Terrain Model).

Elevation 0.5

This next level high-resolution elevation model offers 50cm resolution based on Pléiades Neo stereo and tri-stereo imagery. This outstanding resolution and accuracy supports new use cases, like digital twin visualisation to simulate smart city concepts or replacing the need for drone or aerial data in the mining industry.
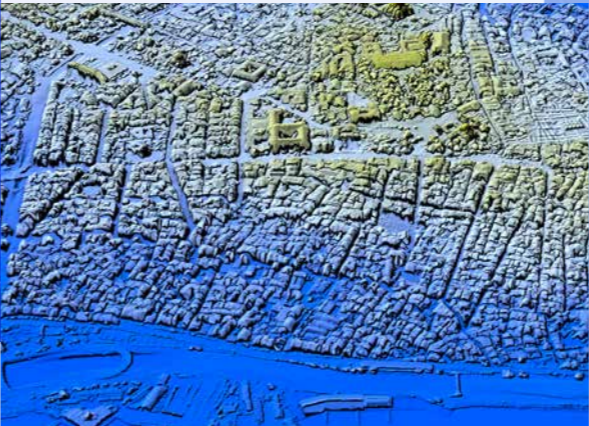
| 0.5m Resolution | Up-to-date data acquisitions | <1m Rel. vertical accuracy | Based on NEO | 1m Abs. vertical accuracy |

*Elevation 0.5 accuracy dependent on ground control points (GCPs); valid for slopes ≤20%

Elevation 1&4

Elevation 1 & 4 are ideal solutions for accurate 3D modelling in 1m and 4m resolutions.

Based on Pléiades stereo and tri-stereo optical satellite data, Elevation 1 and Elevation 4 deliver Digital Elevation Models with highly precise altimetric information, providing the best elevation data for infrastructure and engineering projects.

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

Elevation 4 is applicable for any kind of relief – urban or environmental. Optional ortho-mosaics with 50cm resolution are available for both products.

Resolution	1m & 4m
Accuracy (abs. vertical LE90)	1.5m*
Availability	On demand
Up to date	Fresh data
Coverage	Local

WorldDEM™ Neo

WorldDEM Neo is one of the most accurate global satellite-based Digital Elevation Models available today. With unique data quality and and a high level of detail, it facilitates a wide range of applications such as line-of-sight analysis, hydrological modelling, satellite imagery orthorectification, and much more. Its worldwide availability makes it the most robust layer model for risk assessments and management, and investigating global phenomena.

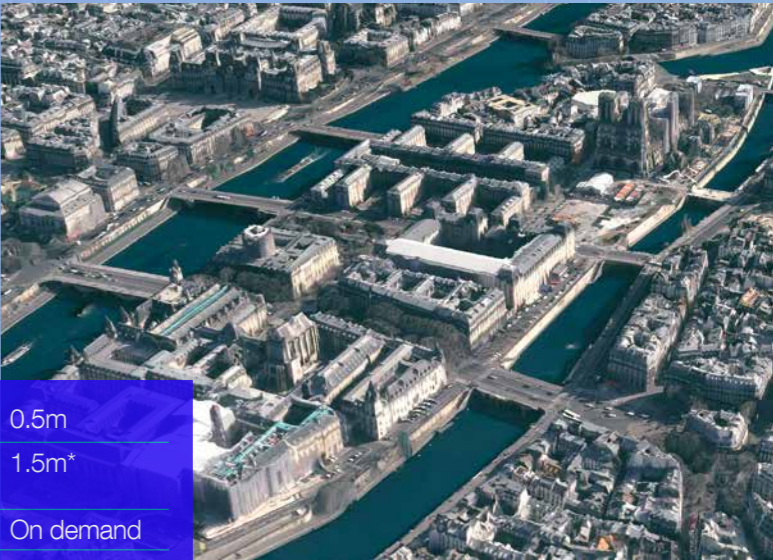| GLOBAL coverage | Off-the-shelf availability | 1.4m Abs. vertical accuracy | 2m/4m Rel. vertical accuracy | 5m Resolution |

3D Textured Model

Add relief and photorealism to your imagery and visualise the world in 3D.

Visualise your area of interest, even in remote and hotspot areas using regularly updated, fresh and relevant data.

Simulate your tactical mission, network utilisation or natural event with consistency and homogeneity around the globe.

Model your construction project, geological point of interest or city map.

Based on Pléiades and Pleiades Neo, 3D textured models offer very high-resolution as fine as 0.5m enabling better analysis, decision-making, planning and training, improving situational awareness. They unlock potential in new areas such as entertainment applications with gaming, VR and more.

Resolution	0.5m
Accuracy (abs. vertical LE90)	1.5m*
Availability	On demand
Up to date	Fresh data
Coverage	Local