Nationwide Japan 3D Base Map

1:2,500 map scale nationwide DSM (0.5m), 3D building, Ortho (30cm), and products for telecom.

The most comprehensive 2D+3D base map

A wide range of data types, including up-to-date orthorectified imagery as well as 3D raster and vector data, are available to support various needs. Land use/land cover data (DLU) and digital height model (DHM) are also provided for telecom and other applications.

Off-the-shelf dataset ready to go

All data of Nationwide 3D Base Map have been processed, verified, void-infilled, and error-corrected to support unmatched short lead time. They are provided in industrial-standard formats so that you can directly adapt them to virtually any professional solution.

Users

- ✓ Academia (universities, research institutes)
- ✓ Mobile network operators and network equipment vendors
- ✓ Federal/Central Government
- ✓ Railroad operators
- ✓ Smart city planners
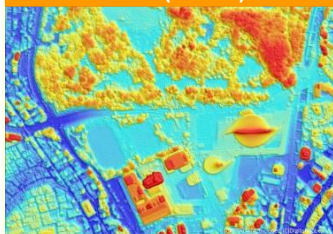- ✓ Insurance related firms

Typical use cases

- ✓ RF simulation and wireless network design & planning
- ✓ Long distance wireless communication design
- ✓ Large scale disaster mitigation and management
- ✓ Smart city planning, including wide area green space optimization
- ✓ Environmental Simulations
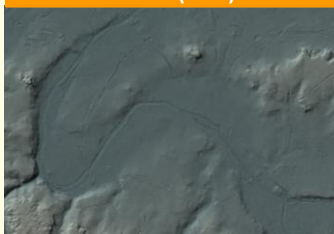- ✓ Flight simulator
- ✓ Line-of-site analysis

Available data layers

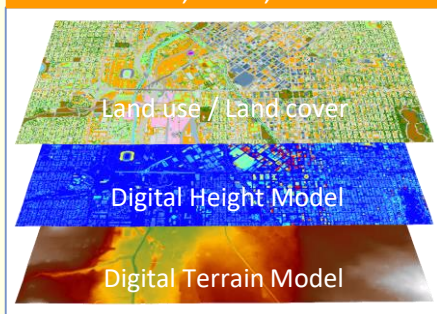Bi-annual update

DSM (0.5m)

DTM (5m)

Ortho (30cm)

Building

Value added package product for telecom

3D vector

DTM, DHM, DLU

Land use / Land cover

Digital Height Model

Digital Terrain Model

■ Product Specifications

AW3D Enhanced DSM, DTM

Product layer	AW3D Enhanced DSM, DTM
Resolution	DSM: 0.5m, DTM: 5m
Coverage	Entire Japan
Horizontal accuracy	1.75m RMSE
Vertical accuracy	1m RMSE
Update cycle	Bi-annual update (plan)

AW3D Building

Product layer	3D Vector
Coverage	90% population coverage (approx. 100,000km^2)
Horizontal accuracy	1.75m RMSE
Vertical accuracy	2m RMSE
Update cycle	Bi-annual update (plan)

AW3D Ortho

Product layer	AW3D Ortho
Resolution	30cm
Coverage	Entire Japan
Horizontal accuracy	1.75m RMSE
Update cycle	Bi-annual update (plan)

Value added package product for telecom

	3D vector (building/vegetation/bridge)	DHM/DLU/DTM (5m)	DLU/DTM (20m)
Coverage	Capital cities	Capital cities	Other area
Horizontal accuracy	5m RMSE	5m RMSE	20m RMSE
Vertical accuracy	1-2m RMSE	5m RMSE	10m RMSE
Vintage	2020	2020	2019 - 2020

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