



November 15th, 2021

Welcome to your AW3D newsletter. We're excited to share the latest news, tips, and resource for geospatial data specialists. In this issue, we take a look at applications with “AW3D Japan Nationwide 3D Data-set”, as well as AW3D at ADB virtual tech expo.

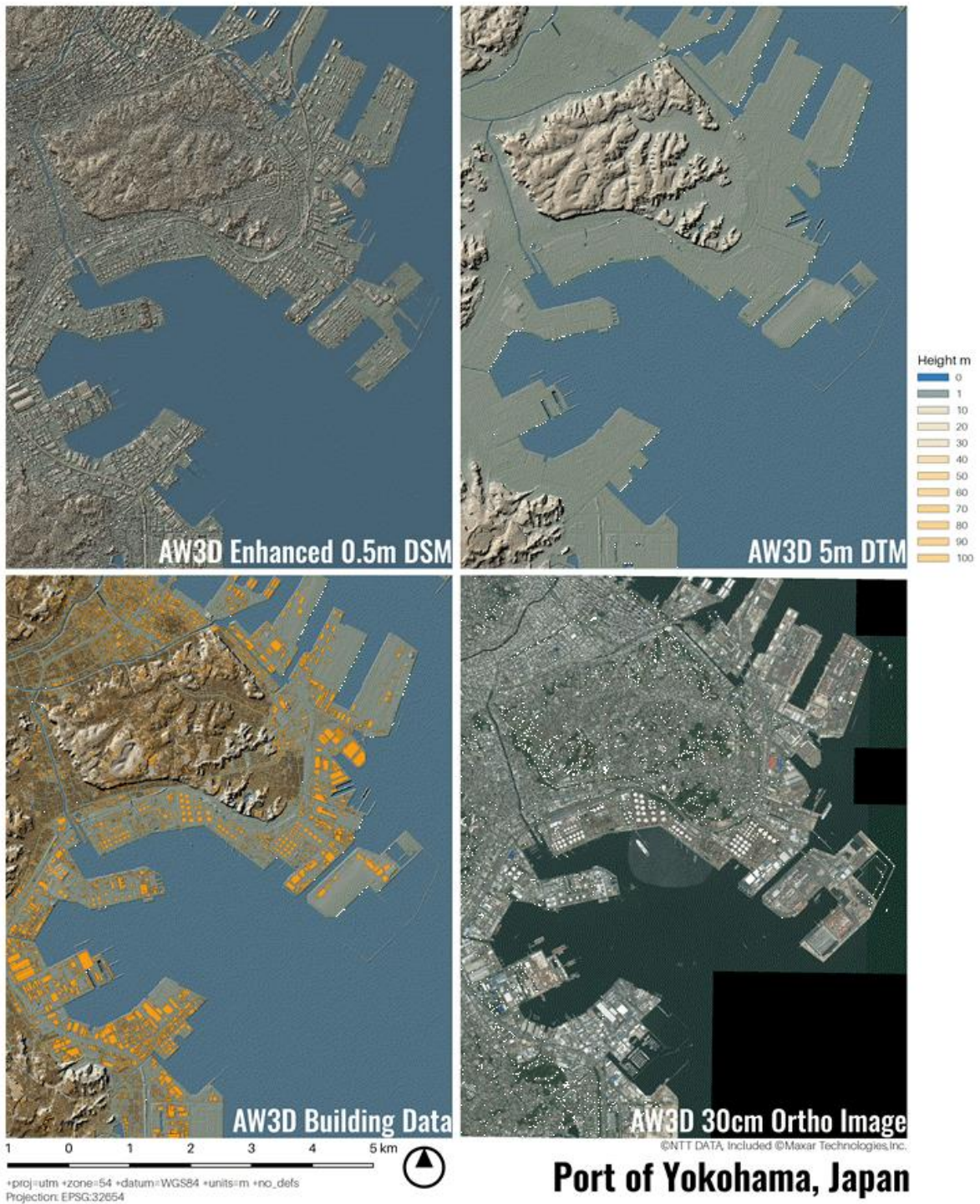
Thanks for reading,
-AW3D sales team

1. 3D Map of the Month: AW3D Japan Nationwide 3D Data-set

We all know that a product that suits well in a specific environment doesn't always mean that it will be the best choice for other occasions.

One typical example is UAV mapping - it is excellent for a project that requires DEM data of a small AOI, but its scalability is severely limited.

Satellite-based DEM product, on the other hand, is the opposite - it may not be suitable for a small area but can scale to countries, prefectures, states, and multi-nationwide.



AW3D Japan Nationwide 3D Data-set: Port of Yokohama, Japan

AW3D team has been focusing on satellite-based solutions because of the superb scalability - and proofed what we can do with a product named "AW3D Japan Nationwide 3D Data-set." This off-the-shelf product suite includes 0.5m DSM, 5m DTM, 30cm Ortho Imagery, and 3D building data. Their coverage reaches the entire Japan islands*1, and we update them

biannually to make our data always relevant.

*1. 3D building data: 90% of the Japanese population

We strive to improve our scalability to support future demands from all sectors on a worldwide scale- let us know in case you have questions or requests regarding our production system.

2. AW3D at ADB Virtual Tech Expo – “Digital×ADB” Driving Digital Development

AW3D team participated in the virtual tech expo* hosted by [ADB](#), Asian Development of Bank, from 11-29 October 2021.

ADB is a regional bank development bank established in 1966 to promote social and economic development in Asia and its model is very similar to the World Bank.

*[“Digital×ADB” Driving Digital Development across Asia and the Pacific](#)

We were invited to host a live session during the event and talk about how AW3D products have been used in international development projects, including ADB, World Bank, and JICA (Japan International Cooperation Agency).

Here are project examples AW3D products were used we introduced during the session:

2-1. ADB Project: Flood Risk Assessment in Myanmar

This project is for flood and storm surge risk assessment in Myanmar. AW3D’s digital elevation model was used to simulate the flood hazard.

Simulation models require good boundary conditions to obtain actionable results, and this project is showing accurate geo-data is the key for the project.

For more details: https://www.adb.org/sites/default/files/project-documents/46496/46496-001-tacr-en_1.pdf

2-2. Independent Evaluation Group World Bank Project: Urban Spatial Growth Assessment in India

This is a project for urban development policy. The organization analyzed and evaluated the urban spatial growth using

AW3D Digital Surface Model (DSM) with two different time points before and after the investment in Mumbai, India.

They found out through the evaluation that there was an increase in urban density and horizontal expansion, but there was no significant vertical development.

The result of this study was used as critical objective data to consider urban spatial policies in the World Bank loans.

For more details: <https://www.aw3d.jp/en/casestudy/urban-spatial-growth-analysis/>

2-3. JICA Project: Landslide Damage assessment in Sri Lanka

This is a project example of when the largest landslide happened in Sri Lanka in 2014. JICA conducted the initial disaster survey, comprehensive damage, and secondary risk assessment for the region, including the surrounding areas, by using AW3D as the pre-disaster topography and imageries taken from a helicopter as the post-disaster topography.

Using different sources before and after the disaster could be used for the evaluation of the disaster and disaster mitigation.

For more details: <https://www.aw3d.jp/en/casestudy/case09>

Any questions, comments, or suggestions are always welcome. We can be reached via [here](#).
Thanks for tuning in.



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