



AW3D Newsletter Vol.5

May 17, 2019

Hello everyone,

The Olympic and Paralympic Games will be held here in Tokyo next year. The new National Stadium for the events is scheduled to be completed this November.

Our AW3D Building, this month's feature product, is an ideal product to see the changes in land/buildings especially when a big event like an Olympic and Paralympic Game is coming!

Hope you enjoy this issue.

– AW3D sales team

3D Map of the Month – AW3D Building for line of sight analysis



Product of the Month: AW3D Building

In addition to DEM (Digital Elevation Model) products, we offer dataset which describes the shape and height of buildings, called “AW3D Building”. The height value of buildings is extracted from satellite imageries and integrated into the footprint (you can find more information in the next topic).

This AW3D building has been utilized such as:

- Calculating number of buildings/building capacity
- Analysis of unobstructed view / fluid movement
- Change detection of buildings (from Past to Current)
- Analysis of line of sight
- Asset planning
- Radio network planning, and more...

Currently, some cities in Japan and ASEAN countries of AW3D Building are available as off-the-shelf.

Please check out our AW3D website, <https://www.aw3d.jp/en/products/building/> for available cities! If you don't see the area you are interested in from the list, please contact us.

Feature Topic: Machine Learning

AW3D building is processed with the combination of DigitalGlobe ("DG") imagery and building footprint map which is automatically extracted from them.

The building footprint extraction is using machine learning which is finding the features of the image by learning the image of buildings, and it is possible to make an interference that "it is an image of building" for the new/unknown image.



Image: Building footprint extraction with machine learning technology

Thanks to this machine learning technique and unlimited access to DG's archive imagery, AW3D building is able to extract the massive amount of building 3D data in a short period of time and we can provide build data of any area in the world.