



## AW3D Newsletter Vol.14

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February 17, 2020

Dear AW3D Supporters,

How time flies! One month has already passed since the year 2020 opened. Speaking of 2020, the world's foremost sports competition will be held in Tokyo and the surrounding prefectures in Japan. With this newsletter, we will explore this event in virtual 3D with you.

We hope you will enjoy reading this issue.

- AW3D sales team

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### 3D Map of the Month:

Q: Do you know where it is?

Hint: where the first games of a leading international sporting event were held in 1896.  
(Scroll down to find out the answer)

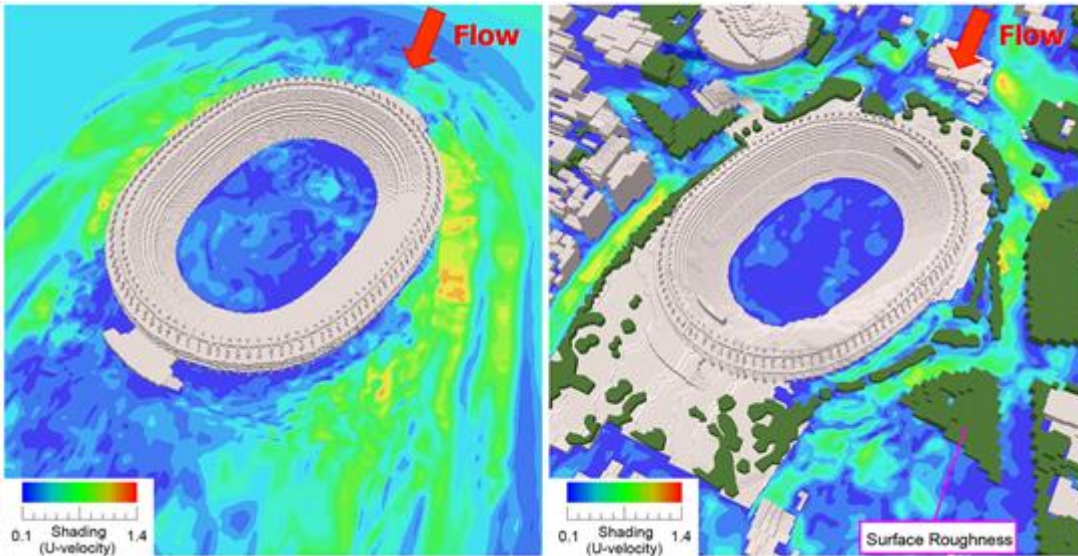


Image: AW3D Enhanced + AW3D Ortho

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**Feature Topic: [Use Case] Airflow analysis in the urban area (New National Stadium Japan):**



*Image: Airflow simulation around the New National Stadium (Created by Environmental GIS Laboratory, Co.,Ltd)*

*(Left) without using AW3D; (right) with using AW3D*

- This is a simulation result that combines AW3D data and “Airflow Analyst®” which is 3D computational fluid dynamics (CFD) software produced by Environmental GIS Laboratory Co. Ltd., and analyzes airflow around the New National Stadium, which is the main venue of the world's foremost sports competition with more than 200 nations participating. Nowadays, there is a high demand for this kind of purpose, and it is used not only for evaluating the wind environment in urban areas, but also for analyzing strong winds, odor and gas diffusion, etc.

Such data is also useful as an analytics platform for smart city.

For finding more use cases of other projects, please access to

<https://www.aw3d.jp/en/casestudy/>.

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## Feature Topic: AW3D for Civil Infrastructure designing / Building Information Modeling (BIM)

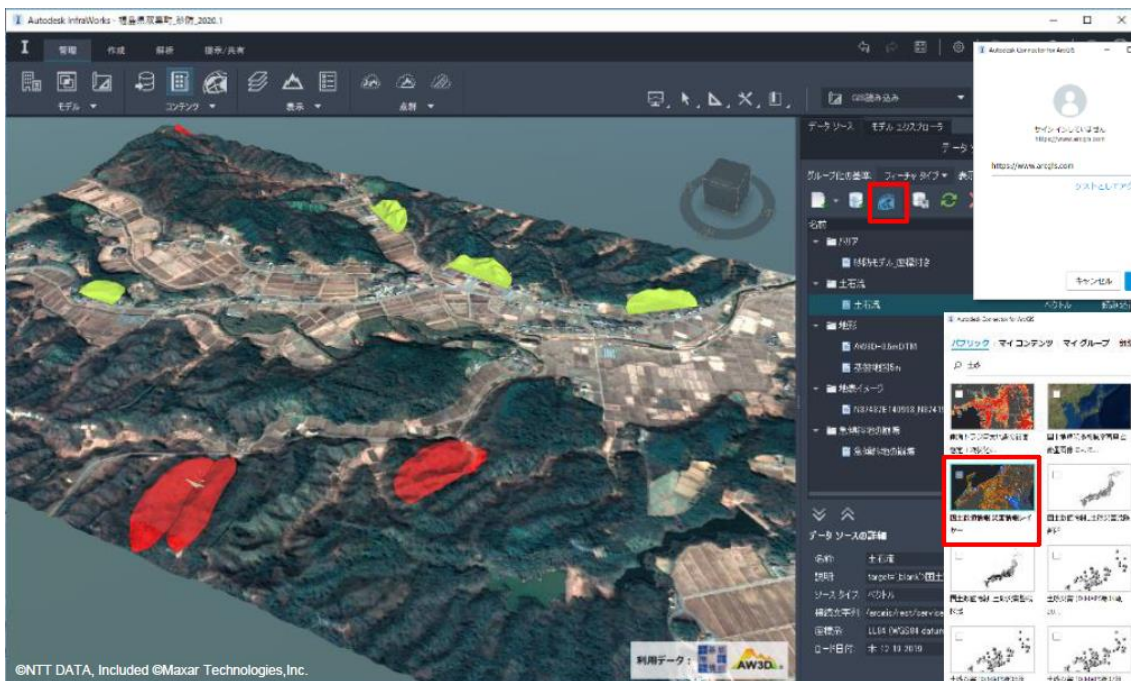


Image: Demonstration of overlaying landslide hazard area on DSM data in Fukushima (Infraworks)

- As you may know, the digitalization in the construction industry has been rapidly speeding up in recent years to improve efficiency in a construction project.

AW3D is highly suitable not only for small construction projects, but also for big infrastructure projects such as road and railway construction, city planning, green area management, dam construction and river development, etc. It is also compatible with major GIS software and CAD platforms and makes it a ready-use data for any construction projects that require more efficiency and shorter timeline.

In Japan, at the event hosted by Otsuka corporation, there was an opportunity to share various solutions for improving operational efficiency, and AW3D was introduced, with the theme of "Integration of BIM/CIM (Building Information Modelling/Construction Information Modelling) and GIS" collaborating with AutoDesk and ESRI solutions.

The integration of GIS data, which captures area information over a wider area, and CAD data, which shows the structure of objects such as buildings, is one of the keywords for improving business efficiency.

Since 2017, the data sharing between these two systems has progressed, however, few geo data available for the both systems, and it was struggled to get accurate local information.

AW3D is a globally available 3D map created from satellite imagery with 1: 2500 accuracy in horizontal and vertical, and is used for both wider-area analysis for GIS and building design for CAD.

During the event, we conducted some demonstrations of disaster simulation and sunlight shadow simulation with combining ArcGIS, InfraWorks and AW3D, and many people evaluated the precision.

Compared with the local situation, it has been verified that the height information and precision are much more accurate than the free data generally used in Japan.

It is useful particularly for infrastructure construction in areas where the latest maps are not available, and for various simulations in cities.

If you are interested, please contact us!

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### 3D Map of the Month:

A: Athens in Greece

On April 6, 1896, the first modern sports competition held in Athens, Greece, with athletes from 14 countries participating.

See you next time!



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