

September 30th, 2024

Welcome to the latest edition of the AW3D newsletter.

We are excited to bring you the latest updates, valuable insights, and resources for geo-information professionals.

Thanks for reading,

-AW3D team

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### **Map of the Month: Advantages of Combining AW3D DEM and Ortho Imagery**



At AW3D, while we are well-known for our 3D data offerings, did you know we also provide high-quality [AW3D Ortho imagery](#)? This month, we want to highlight the advantages of using [Digital Elevation Models \(DEM\)](#) and ortho imagery together. Combining these two data sets unlock numerous benefits for various applications. Here's how:

#### **1. Enhanced Spatial Analysis:**

By integrating AW3D DEM with ortho imagery, you gain both accurate elevation data and high-resolution imagery. This combination allows for detailed 3D spatial analysis of terrain features and structures, improving the depth of your insights

## 2. **Improved Precision in Mapping:**

DEM adds critical elevation context to ortho imagery, resulting in more precise mapping of topography, slopes, and landforms. This accuracy is particularly valuable for infrastructure development and environmental monitoring projects.

## 3. **Accurate Visualization of Terrain:**

The integration of AW3D DEM with ortho imagery enables the creation of realistic 3D landscape visualizations. This is especially useful for analyzing complex terrains and improving decision-making in fields such as urban planning and disaster management.

## 4. **Better Context for Geographic Features:**

While ortho imagery provide surface details, DEM uncovers the underlying terrain. This combined view offers a more comprehensive understanding of geographic features like valleys, ridges, and water flow patterns.

## 5. **Enhanced Accuracy in Simulation Models:**

Using AW3D DEM and ortho imagery together enhances the accuracy of simulations for flood modeling, erosion prediction, and line-of-sight analysis for defense applications.

We can produce AW3D Ortho anywhere worldwide. If you're interested in learning more or inquiring about availability and feasibility, please don't hesitate to reach out.

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### **Featured Topic 1: Celebrating 10 Years of Innovation at AW3D**

This year marks a significant milestone for AW3D – our 10<sup>th</sup> anniversary! Since launching in 2014 with our pioneering 5m resolution terrain data, we've made incredible strides. Leveraging JAXA's ALOS satellite imagery, our initial 5m global data set was the highest-resolution available at the time. Over the past decade, we've expanded our offerings to meet evolving market needs, introducing a variety of resolutions and data types.

#### **Where We Stand Today:**

AW3D now provides data with resolutions as fine as 0.5m, making us one of the world's leading sources of 3D geospatial information. Additionally, our 2.5m resolution product remains the highest-resolution global dataset in the world.

#### **A Decade of Success:**

As we celebrate this 10-year milestone, we proudly reflect on supporting over 4,000 projects across diverse industries. From urban planning and infrastructure development to disaster management and

environmental conservation, AW3D's data has been integral in helping organizations make informed, data-driven decisions.

**Looking Ahead:**

As we move forward, AW3D remains committed to continuous innovation and delivering cutting-edge resolutions that meet the complex challenges of tomorrow. We're excited to shape the future of geospatial technology and continue our missions of providing the most accurate, high-quality data to our customers.

Thank you for being part of our journey! Stay tuned for more exciting updates and advancements from the AW3D team.

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**Featured Topic 2: Maxar's Third and Fourth WorldView Legion Satellites**

Maxar Technologies, our trusted partner for AW3D, has been making significant advancements with the launch of the WorldView Legion constellation. Out of the six planned satellites, the first four have already been successfully launched, and the third and fourth WorldView Legion satellites represent major milestones toward completing the full constellation.

**What Does This Mean to You?**

These additional satellites will greatly expand and maximize Maxar's imaging capabilities, providing enhanced data in terms of quality, quantity, and frequency. The advanced technology behind the WorldView Legion satellite is designed to support a wide range of critical applications such as environmental monitoring, national security and disaster response.

At AW3D, we are excited to integrate these new capabilities into our service offerings, which will allow us to provide timely data to support your projects. With the completion of the WorldView constellation, we look forward to continuing to push the boundaries of geospatial technology to better meet your needs.

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**Questions, Comments, or Suggestions?**

We'd love to hear from you! If you have any questions, comments, or suggestions, please don't hesitate to reach out to us [here](#).

Thanks for tuning in, and we look forward to continuing our journey with you!  
The AW3D sales team



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