

PRESS RELEASE
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Singapore's World's Best Practice 3D Map Underway

Singapore Land Authority's (SLA) vision to create a World's Best Practice 3D Map is underway. SLA has long held detailed geospatial layers of Singapore, but these are soon to be extended into the third dimension.

The project will provide Singapore authorities with the capability to extend their analysis and visualisation to include height. The new layers include accurate terrain, detailed surface models and high resolution imagery. SLA also wants to create high quality photorealistic building models of Singapore's urban areas. The 3D buildings will be both spatially correct and highly photorealistic to meet the diverse range of uses which the various authorities have.

The companies delivering this project, AAM Pty Limited and JTRS Registered Surveyor are pleased to announce that the data acquisition phase of this project is now complete.

AAM had two of its survey aircraft in Singapore to capture the required base data. One aircraft was fitted with a LiDAR sensor using laser technology to measure the ground at 40cm intervals. AAM will utilise this dense and accurate LiDAR data to produce a detailed terrain model of Singapore. The LiDAR also measured every building, tree and structure across the country.

AAM's second aircraft in-country was fitted with a new Oblique survey camera. This five camera system captured nadir photographs over Singapore to produce a high resolution photomosaic. It also photographed the façades of every building. AAM will utilise this imagery to add photorealism to 3D building wireframes created from LiDAR and photography. Aerial data collection proceeded smoothly, adhering to the security restrictions existing within Singapore, thanks to the extraordinary cooperation extended by SLA, CAAS and other authorities involved.

Now that the raw image capture is complete, the next task is for AAM to produce the terrain, surface model and generalised Building models. This will allow SLA to share these layers to support Singapore's multitude of development and management projects. The project then moves into the third stage, which involves AAM constructing the detailed photorealistic buildings for the whole of Singapore.

All of the data for this project will be integrated into SLA's systems and workflow using AAM's K2Vi software. This 3D visualisation and analysis package provides workstation and web-based functionality to the buildings, terrain, vector and imagery products.

Singapore has a large archive of quality geospatial layers. This project will extend the capability, efficiency and reliability of government decision making by providing a world's-best-practice 3D map of the Republic of Singapore.

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About AAM

AAM is a leading spatial information technology provider. Our exceptional capabilities in business mapping, asset information, geographic information system (GIS) projects and enterprise solutions, and location-based services are sought after internationally.

To serve our clients we have almost 500 geospatial professionals and a fleet of custom equipped aircraft operating across Australia, New Zealand, South East Asia and Africa. Our global resources allow us to respond quickly and effectively wherever our clients are located.

AAM has a long-standing reputation for innovation. We have stayed at the forefront of geospatial technology for over 50 years. Our teams have introduced pioneering innovations to the market and continue to adopt industry-leading technology such as mobile and airborne laser scanning, high resolution satellite imagery, 360° spherical imaging, SiteSee™ and High Resolution Oblique Imagery.

Our experts can integrate client data with all major geospatial platforms (e.g. ESRI©, MapInfo®, Bing Maps™, Google Earth™) and offer consulting on enterprise GIS solutions, spatial data creation and management.

When solutions do not exist we create them, like the advanced systems we have implemented for the accurate collection, analysis, presentation and integration of geospatial information. We are also proactive in building extensive libraries of digital photography, 3D building models and high resolution digital terrain datasets to reduce our clients' costs.

Our ability to create, customise, and tailor solutions to meet our clients' exacting requirements and constraints - be they geographic, budgetary or time - is why our services remain in high demand.

For more information, visit <http://www.aamgroup.com>

Images



Project team



The standard for Singapore's 3D Map