

About AAM

AAM is a leading professional services company renowned for its work in the mining and engineering sectors for over 50 years. Our reputation is based on delivery of large projects in **remote** locations requiring **accurate** products often in situations presenting significant **technical challenges**.

Our permanent offices in Asia, Africa, Australia and New Zealand introduce leading innovations to the market such as LiDAR, High Resolution Satellite Imagery, Terrestrial Laser Scanning, Immersive Imagery and GIS Deployment.

Resources

- Over 200 Professional Staff
- 10 Aerial Survey Aircraft
- 5 LiDAR Units
- 7 Digital Cameras – 3 Large Format

Safety, Environment and Quality

AAM has adopted a target of Zero Workplace Injuries and is committed to the protection and well being of the people, communities and environments in which we work. AAM is committed to maintaining our ISO 9001: 2008 quality certification so we meet internationally accepted standards for quality management.

Delivering High Quality Survey in Remote Asian Regions

High quality survey data is difficult to collect in parts of Asia, due to combinations of thick vegetation, low cloud, government legislation and scarce infrastructure. AAM has collected over 10 million hectares of aerial mapping data (both LiDAR and photography) in Asia, stretching from Hong Kong to PNG and from India to Korea. With a permanent office and staff in Kuala Lumpur, an aircraft and first order LiDAR and Camera based in SE Asia, and a network of associates throughout the region, AAM can offer your project high quality survey anywhere in the region.

Our webGIS capabilities allow sharing complex datasets across offices, sites and countries.

Benefit from AAM's local presence and international expertise for the duration of your mine's life.

Services Overview:

Visualisation Products

- Aerial photography
- Orthophotos
- Satellite imagery
- 360° spherical imagery

Site Measurement

- 3D 'as built' surveys
- Deformation analysis
- GPS surveys
- Dimensional control
- Structural design
- Cadastral surveys

Specialist Products

- Pit and stockpile volumes
- Surface/elevation models
- 'Bare Earth' terrain models
- Mapping, contours
- Mine mapping

Derived Products

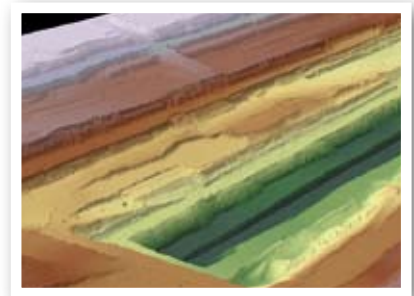
- Mine mapping
- Vegetation height
- Rehabilitation monitoring
- Building outlines
- Asset information
- Erosion extent



Services in Detail:

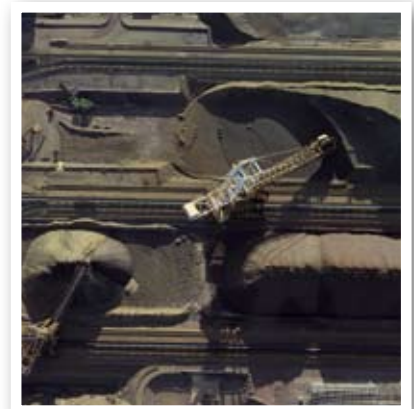
LiDAR

LiDAR, or Airborne Laser Scanning, creates highly accurate and detailed models of the Earth's surface. LiDAR produces a dense cloud of points that defines the bare earth under vegetation, and measures the buildings, tree heights and everything on the ground surface. Typical datasets include natural surface terrain, buildings, vegetation, powerlines, contours and 3D models. AAM introduced LiDAR to the South East Asian market over a decade ago and has completed more than 400 LiDAR surveys throughout the region.



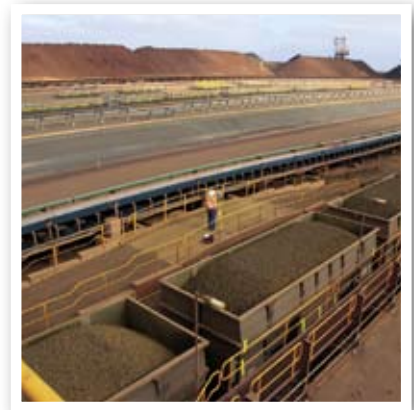
Imagery – Aerial and Satellite

Our diverse range of imaging technologies ensures the best tool is deployed to suit the accuracy, timeliness, applications and scale of your project. Spectral resolution ranges from natural colour, to colour infrared, to multispectral. Ground Sample Distances (GSD) is 5cm to 5m; captured from an aircraft or satellite. Stereo images create digital elevation models and contours or generate accurate, georeferenced and GIS ready orthophotos. Multispectral images produce thematic products to identify landuse, site quality, change detection, or any of your project's specific requirements.



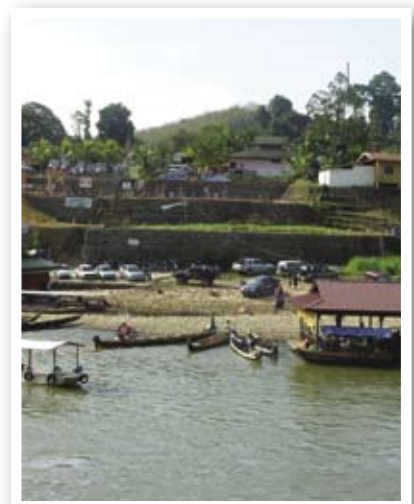
Land Survey

AAM surveyors provide ongoing support throughout the life of your project. We help develop, implement and document the most appropriate spatial strategies to maximise project benefits. AAM's capability to formulate the geodetic infrastructure to establish alignment of datasets from various consultants reduces time delays and gross errors. Strategic survey planning documents the currency and accuracy of project datasets, ensuring they are correctly utilised for the life of the project. Our technical solutions are founded on the scientific principles of geodetic surveying. Mine Geodesy is a specialty, allowing construction accuracy over large projects, terrain variation and multiple datums.



Industrial Survey

The adoption of 3D data modelling in a range of industries has seen an increase in the demand for terrestrial laser scanning for deformation and 'as built' surveys. Highly accurate 3D models of brownfield sites dramatically improve design and construction quality, virtually eliminating rework. Terrestrial Laser Scanners permit the rapid capture of millions of accurate 3D point data from a safe distance. This data can be modelled or used in raw form for clash detection against designs. Our experience includes large industrial plants, offshore platforms and other complicated structures.



Photogrammetry

AAM uses state-of-the-art mapping equipment combined with diverse, specialist knowledge. These mapping resources successfully meet the most challenging photogrammetric mapping and orthophoto requirements.