

**AAM Industrial Measurement teams are highly portable and geared to respond quickly to projects all around the world.**

Key Features and Benefits of AAM's Industrial Measurement Team:

- Offer heightened safety awareness from working on hazardous sites across various industries
- Fully independent teams mobilise to job sites, execute the scope and supply data directly to client
- Use the latest scanning hardware and software, operated by Australia's most experienced terrestrial laser scanning team
- Combine precision laser scanning surveys with AAM's SiteSee™ spherical image visualisation tool
- Data integrates seamlessly with the client 3DCAD/CADi design systems

## 1. 200 Scans and SiteSee Package at Molybdenum Plant, Canada

*Other side of the world:* AAM executed a laser scanning and SiteSee project for an engineering firm at a molybdenum plant in Canada. Mobilising from Sydney, a team of two Industrial Measurement Specialists collected 200 laser scans and 90 sphericals in an 8 day field campaign using a Leica HDS6000. The project also included 2 weeks of as-built modelling and data integration in the engineering office in Vancouver. Data was integrated into Microstation via Bentley Cloudworx.



*Unwrapped SiteSee of the mill building*

## 2. 50 Scans and SiteSee at a Platinum Refinery, South Africa



*Unwrapped SiteSee of the dangerous slag tapping area  
(see [www.aamgroup.com/siteseesafety.cfm](http://www.aamgroup.com/siteseesafety.cfm) for an interactive version of this example)*

*Project fast-track:* 50 TLS setups and 40 SiteSee sphericals were acquired in a 3 day survey. The survey and photography helped the engineering team build accurate designs in a short time period. Further fast-tracking the project, 10 days were devoted to converting the 3D point data into 3D CAD as-built models. Laser scanning data was integrated into Microstation via Bentley Cloudworx.

### 3. 120 Scans at a Steelworks, Australia

*Complex and cluttered plant:* A team of four Industrial Measurement Specialists executed a complete survey control network and laser scanning survey of an 80m tall furnace structure to support design of a new cooling system and associated plant and equipment. Over 120 scans were captured during a restrictive schedule of access and operational constraints. Data was integrated into the engineering design platform Microstation via Bentley Cloudworx.



*Unwrapped panorama of the steelworks*

### 4. 150 Scans at Manganese Plant, Remote Australia

*Repeat business in a remote site:* A team of two Industrial Measurement Specialists executed a complete survey control network and laser scanning survey of a manganese plant in remote northern Australia. Requiring careful planning during mobilisation, the team executed 40 scans on the first visit and 90 scans on a second campaign. In addition to this, 100 SiteSee photo montages were delivered, which engineers were able to use in 'before and after' comparisons of the newly refitted southern section of the building. The SiteSee imagery enabled offsite engineers working in a different state to traverse around the site from the safety and comfort of their desk.

### 5. 150 Scans and SiteSee at a Platinum Refinery, South Africa

*Distributed teams:* A team of four Industrial Measurement Specialists travelled to a regional South African town to digitally document a large portion of a plant planning a major upgrade of its facilities. The survey team researched and developed a survey coordinate system for the plant and future designs. Over 150 scans were collected and georeferenced along with a comprehensive SiteSee package. Data was integrated into Microstation via Bentley Cloudworx and distributed to teams working in multiple countries.



*Unwrapped spherical of the manganese plant showing conveyors transferring material*



*Screen capture of laser scanning of the process area at the platinum refinery*

**Fast Fact:** In the 5 minutes it took to read these case studies, one of our 360° high-speed laser scanner will collect well over 15 million points of any surface in its line-of-sight up to 60m! Fast acquisition minimises the time we occupy a site.