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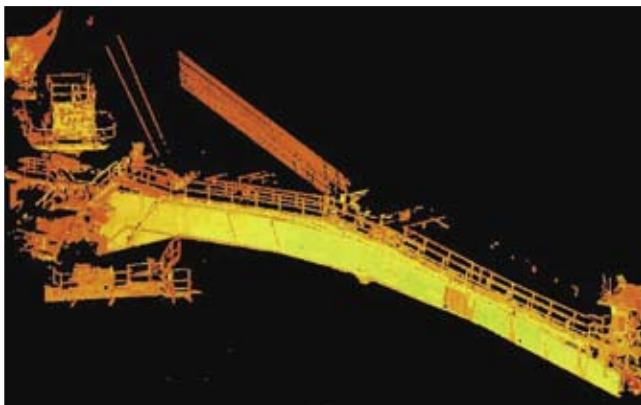
Introduction

AAM harnesses the technology of Terrestrial Laser Scanning (TLS) to provide spatial solutions for a wide range of applications.

TLS is a tool that provides high resolution spatial definition by measuring the reflectance of laser light emitted from a scanner to a target object or surface.

The initial output from TLS is a high density cloud of points captured at a rate of > 5,000 points per second.

The point cloud is acquired by scanning laser light across the target surface using a rotating laser and mirror system.



AAM Benefits

TLS is rapid

TLS harnesses the speed of light, emitting thousands of discrete points per second. TLS is accurate and routinely produces high accuracy 3D surface models. Large datasets are selectively thinned to reduce the file size while retaining integrity.

TLS is convenient

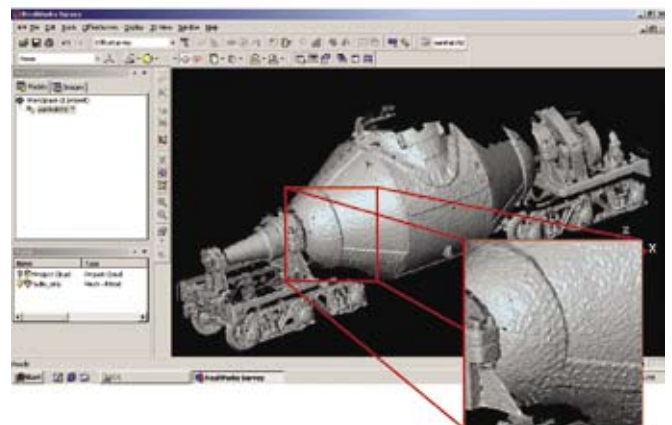
Sophisticated software and advanced procedures uncloud the picture while retaining the integrity of solid surface depictions.

TLS is proven technology

AAM has dedicated professionals who have successfully applied TLS technology for the benefit of our clients since 1999.

TLS is comprehensive

Target objects are defined by dense data clouds of millions of co-ordinated points. The TLS data cloud provides astonishing detail about the study area and captures the target object in context with its surroundings.



AAM Role

AAM has an office network throughout Australia, New Zealand, Malaysia and South Africa. Our Terrestrial Laser Scanning and Industrial Measurement expertise can be mobilised to site quickly and efficiently and backed up by our track record of managing projects domestically and internationally.

Industrial measurement resources:

- Faro Arm
- Laser Tracking
- Close Range Photogrammetry
- Metric Photography
- Processing hardware including a network of advanced workstations and media writing facilities
- Comprehensive suite of proprietary software and commercial software packages including Cyclone, Cloudworx, Microstation, CAD and Realworks

Deliverables

Since the introduction of Terrestrial Laser Scanning during the late 1990s, our team has established field techniques and data processing excellence to accurately determine surface shapes.

Spatial information services:

- Expert advice on survey options
- Planning, acquisition and processing
- Rapid response and support for industrial operations

Data modelling and 3D visualisation:

- Formatting to grids, rasters or industry standard formats
- Datasets and modelling of partial and entire brownfield sites
- Thinning services to remove superfluous datapoints
- Analysis for feature identification

