

Profox Laserscanning Service Concept



Profox Companies now offers high quality, competitively priced laser-scanning and 3D modelling services for both the AEC and Process Plant industry throughout Europe.

The Service Concept also includes software and consultation in all project phases.

3D Laser Scanning Overview

Profox provides Navisworks-based cad integration and viewing software that will allow any design team to import a large amount of "as-built" laser-scan survey data.

The point cloud images can be read into Navisworks and combined with design data from most common formats including AutoCAD, AutoPlant, PDMS, PDS, Revit and IFC.

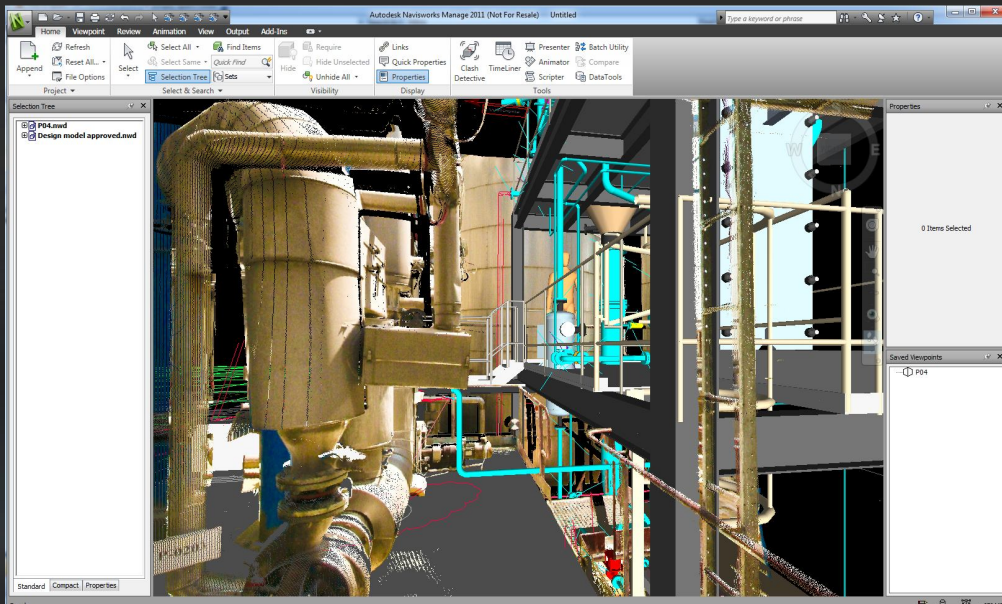
This "as-built" data can then be compared visually with design data and, if required, automatic clash checking can be undertaken. Comments can be applied using Navisworks red-line and mark-up tools and then communicated to project stakeholders via the Navisworks Freedom free viewer.

How does it work?

When an existing facility is being modified or upgraded, Profox will capture 3D laser scan data on site and supply in a format that can be easily integrated into the customers engineering work processes.

Profox uses high speed laser scanners which send a laser light beam out in the horizontal and vertical directions to measure points at up to 500,000 times per second. This results in laser scan point-cloud data with high photographic quality which can then be used for planning new work.

The individual point clouds are then stitched together and positioned accurately using GPS data which can then be viewed individually or aggregated together within Navisworks.

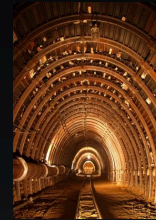


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The common application areas for 3D Laser Scanning:

Creation of As-Build documentation
 3D Digital photographic images
 3D semi-automated Modelling
 Collision checking modifications
 Condition and damage assessment
 Data exchange with many CAD platforms
 Export to Visualisation / Walk-through software
 Mobile data capture
 Complete 3D CAD models from point clouds
 Sub-millimetre tolerance analysis



3D Laser Scanning Project Benefits

Profox is committed to providing a high quality, cost effective service designed to enhance design and improve constructability throughout all stages of a new build or refit project.

Our main objective is to mitigate the risk of costly re-work and potentially project growth in time and money.

Profox and our partners have demonstrated to our customers that tangible project benefits can include :

- Non-destructive measuring.
- Fast and highly accurate data collection.
- Long distance measurement, managing difficult to reach areas.
- Complete 3D as-built data of complex environments.
- Less site visits (lowered cost, increased safety).
- Minimising shutdown periods
- Elimination of re-work ,Reduction of installation man-hours
- Risk mitigation. No costly retrospective engineering
- Early project completion

3D Modelling

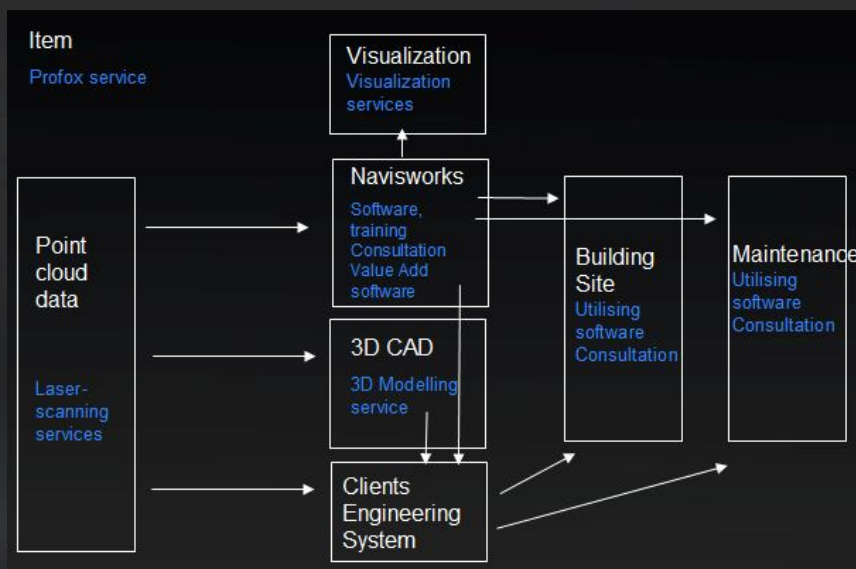
We provide 3D modelling services from our own or pre-defined laser scans in most common formats including AutoCAD, Revit, PDMS, PDS. Our experienced offshore outsourcing partners provide a high quality, competitively priced solution.

3D Laser Scanning Experience

Profox and our partners have obtained a wide experience of implementing 3D Laser Scanning technology on a global basis.

Our main strength is our ability to offer our customers a "Turnkey-Solution" which includes :

On Site Surveys, 3D Scanning ,3D Modelling, Visualisation Software and Dimensional Control



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