

## Laser scanning

### Laser scanning for project support

#### 3D laser scanning technology for improved project performance and simplified planning processes

##### Challenge

Lack of CAD data and high design costs to recreate an existing plant frequently prohibits the use of 3D design tools during project execution. Often, outdated or redlined drawings and on-site visits are used as a measurement basis for projects. This holds huge potential for errors: measured values are forgotten or false and drawings no longer represent the as-built situation on-site. As a result, projects suffer cost overruns due to redesigns caused by undocumented as-built situation.

##### Solution

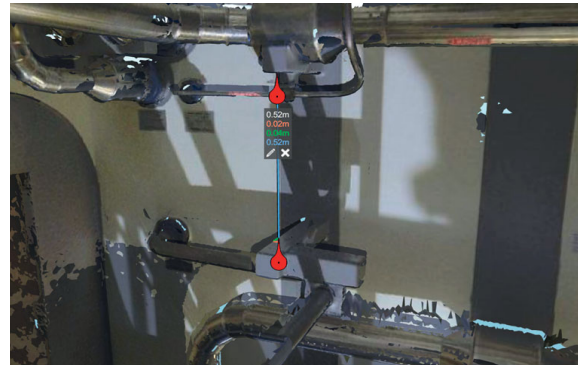
Framatome offers a solution to ensure that customers are able to rely on their 3D data using a 360° laser scanning method. With state of the art scanning equipment, Framatome produces scan clouds, that directly allow 3D layout design and forgoes recreations of models in CAD.

With just a few scans by a trained expert a room can be digitally modelled and measurements be taken. 3D scanning technology can benefit many different kinds of projects. For example, the performance of transportation & assembly studies in scale 1:1 by using Virtual Reality and minimal effort.

##### Customer benefits

- Design Review and correction of CAD models
- Significant time reduction in comparison to manual scanning
- Reduce redundant work and travel costs
- Use of as-built scan data to merge with new 3D CAD-planning
- Enables comparison of as-built with as-designed at any point of the project's lifecycle

**Your performance**  
is **our** everyday **commitment**



##### References

###### Germany

- Documentation Battery Storage Facility, Use of 360°-Panorama Views

###### Japan

- Feasibility Study: Air Vent Installation

###### Netherlands

- Modernization of control cabinets; Transportation study of MCP-Motor

###### Slovenia

- Documentation of Facility Potential Use: Training in VR

###### Spain

- Implementation of NAS within existing Aeroball Measurement System

###### Switzerland

- Design Review, Transportation & Assembly Study

##### Key figures

**5mm** 3D point accuracy @ 10m distance

**~5min** per scan

**Contact:** [integrated-systems@framatome.com](mailto:integrated-systems@framatome.com)  
[www.framatome.com](http://www.framatome.com)

It is prohibited to reproduce the present publication in its entirety or partially in whatever form without prior written consent. Legal action may be taken against any infringer and/or any person breaching the aforementioned prohibitions.

Subject to change without notice, errors excepted. Illustrations may differ from the original. The statements and information contained in this publication are for advertising purposes only and do not constitute an offer of contract. They shall neither be construed as a guarantee of quality or durability, nor as warranties of merchantability or fitness for a particular purpose. All statements, even those pertaining to future events, are based on information available to us at the date of publication. Only the terms of individual contracts shall be authoritative for type, scope and characteristics of our products and services.