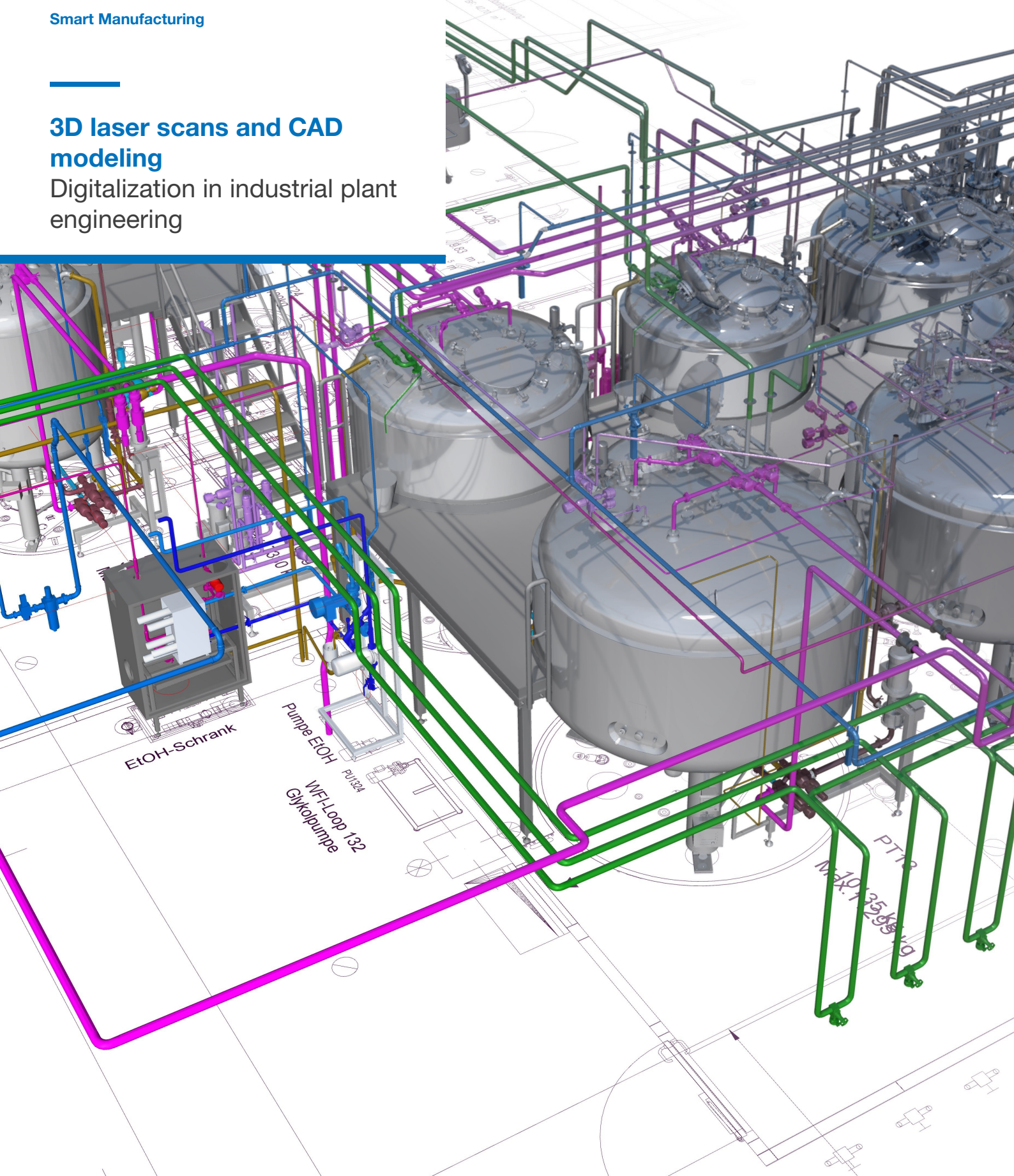


Smart Manufacturing

3D laser scans and CAD modeling

Digitalization in industrial plant engineering



Legacy inventory, planning, design & 3D-modeling

Optimized planning and construction processes

Overview

With 3D models of complex industrial plants, planning and assembly services in plant engineering can be performed much more efficiently. Plans can be checked for feasibility at an early stage using 3D models. Pre-assembly work can be carried out more efficiently and to a higher standard with the help of realistic 3D models. Planning and assembly times are significantly reduced.

Laser scanning and 3D models are increasingly being used in brownfield construction. Layouts or existing 3D models of production facilities are often out of date and no longer correspond to the legacy installations. Using inaccurate documentation for planning work can have expensive consequences.

We integrate 3D scans and building and room models from architects or clean room specialists into our 3D models.

You save costs through prefabrication of fixtures and connecting parts. There is no need for on-site adjustments. Ultimately, you receive an ergonomic system with clear pipe routing.

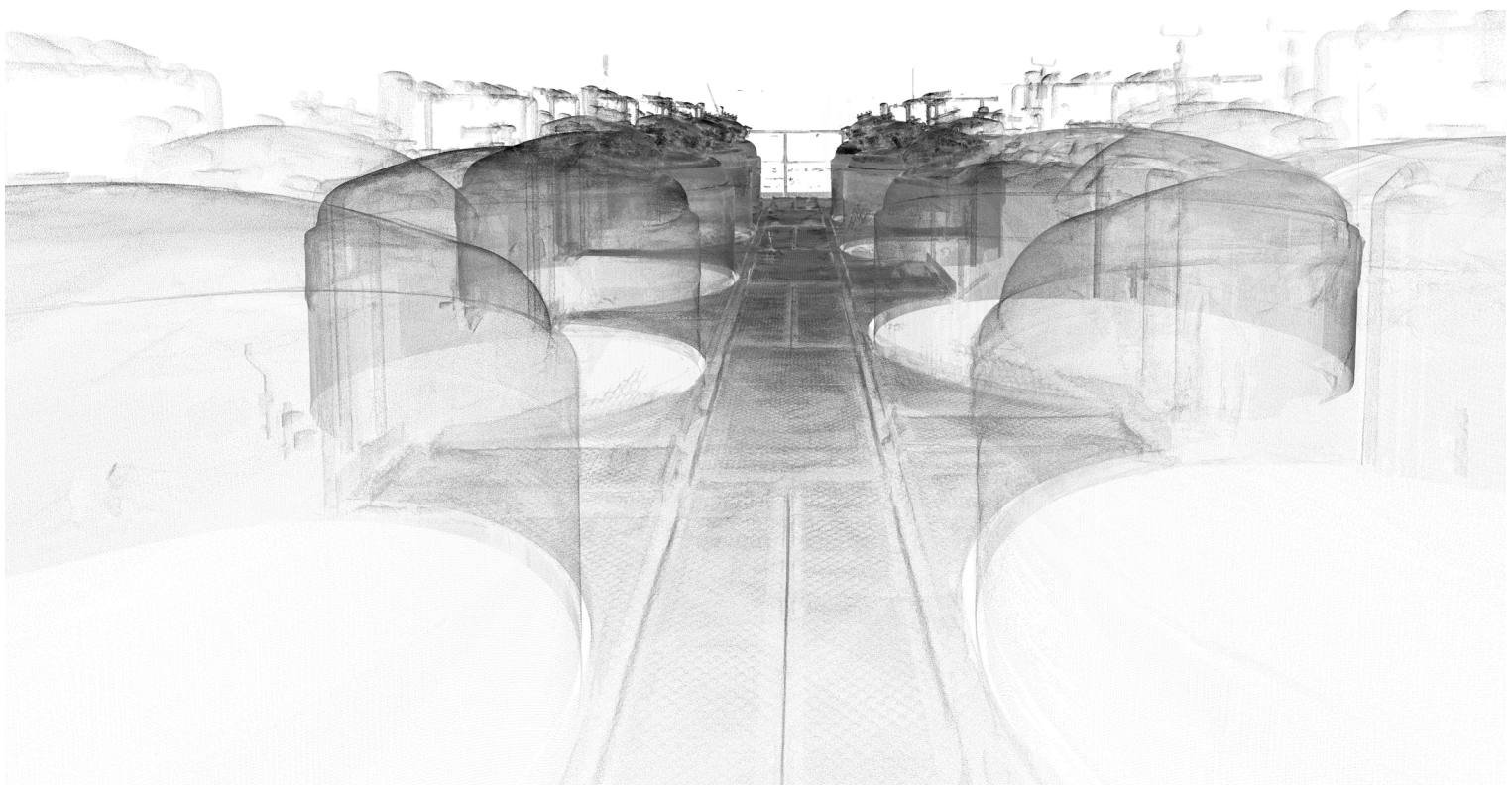
Current software solutions support the import of 3D scans into 3D models.

Benefits:

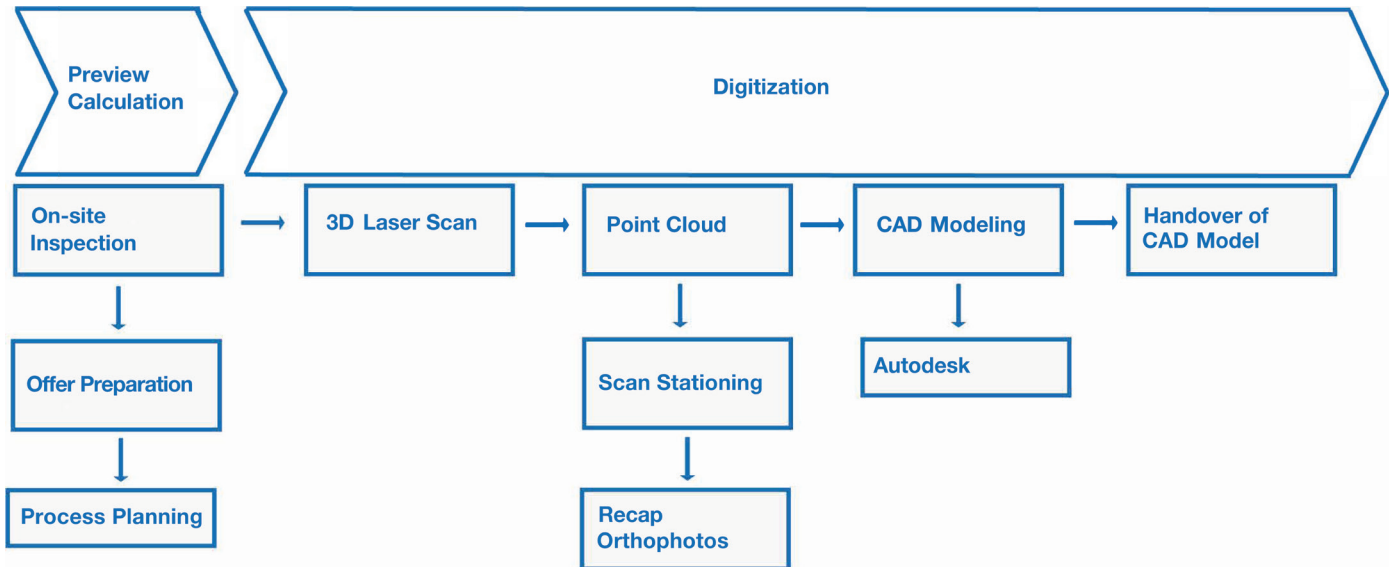
- » Precise analysis of interfaces and intersections, identification of collisions
- » Planning and execution of pre-assembly work
- » Short planning times
- » Current data and models that correspond to actual legacy installations
- » Early detection of planning errors
- » 3D simulation of production processes in conjunction with virtual reality
- » 3D models of cable routing and system components
- » Detailed plant layouts
- » Structural safety measures are documented
- » Basic data for future augmented reality applications

JAG – Your one-stop supplier:

- » Supplier of complete systems and turnkey process plants
- » Comprehensive expertise in engineering, planning, process automation, qualification, assembly, and construction
- » Development and integration of customer-specific robotics systems



Plant design process with laser scanning and 3D modeling



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