



Digital Factory

*Make a decision with confidence
using reliable and detailed data
virtualizations of your plants*



Digital Factory Solution

Global supply chain and industrial manufacturing professionals can now digitize their facilities with unprecedented speed and accuracy.

An up-to-date digital copy of our manufacturing facilities will revolutionize the effectiveness of production planning and operations.

Using our mobile scanning service you can rapidly acquire the entire production facilities and generate AS-IS documentation with speed and accuracy.



TO



(Nuvola di punti da rilievo Laser scanner)

Using our mobile scanning service we can rapidly acquire the entire production facility.



pg.6

Through an easy-to-use web interface, remote access to the production plants is guaranteed to all stakeholders.

The platform provides the information needed to confidently make the right decisions at the right time.

BENEFITS

- **Faster decision-making** through better remote collaboration between departments
- **Increase productivity** of engineering departments and reduced machining costs through reliable AS-IS documentation
- Increased **collaboration** and **reduced travel expenses** with remote virtual meetings
- **Increased productivity** of maintenance teams thanks to the digitization of processes and the replacement of paper-based material with mobile devices

FIELDS OF APPLICATION

- Delocalised production sites
- New installations and equipment relocation
- Layout modifications of the production lines
- Sharing of best practices between different locations and departments
- Maintenance reports
- 5S and Gemba walk support

APPLICATION CATEGORIES

EQUIPMENT: A digitised resource connects the design with the manufacturing process.

ASSET: More digitised assets optimise asset simulation (virtual startup).

FACTORY: Digitising plants around the world enables global visualization of the production processes and the operational performance.

Equipment



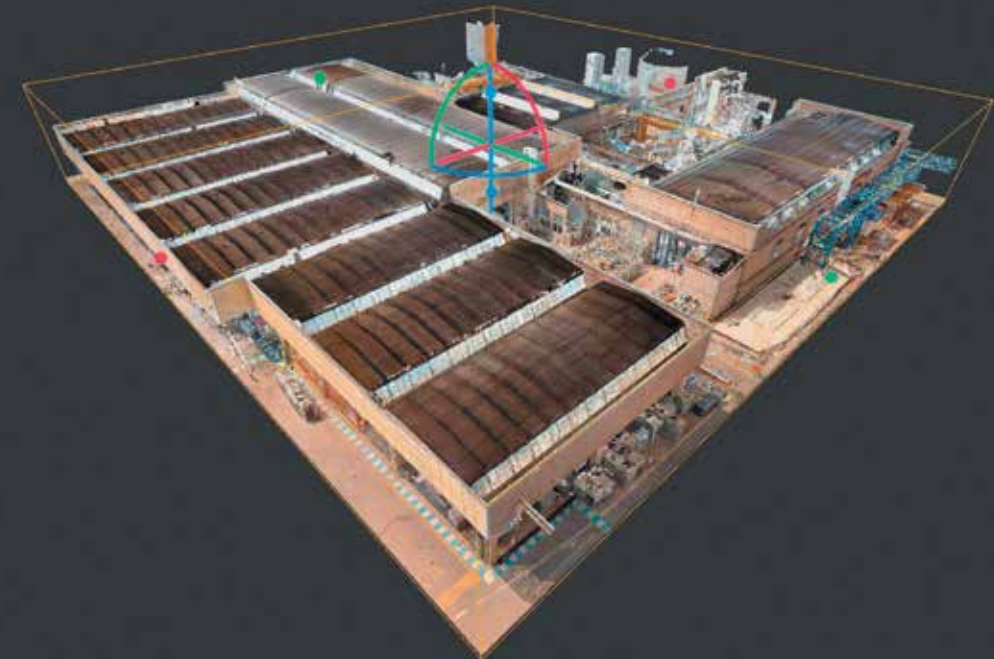
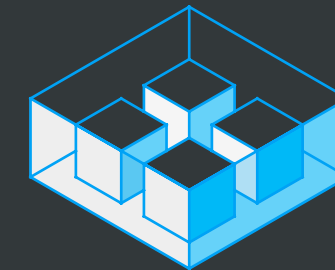
- Dimensional information
- Maintenance reports
- 5S and Gemba walk support
- Information shared across multiple locations and departments

Asset



- Dimensional information
- Process and asset simulations
- Predictive maintenance
- Installation and relocation of machinery
- Planning and designing of production line layouts

Factory



- Planning, design, and construction of the factory building and infrastructure
- Support and testing
- Commissioning simulation of the building
- Information sharing between different locations and departments

INTERFACE

The Digital Industry can be managed in a streamlined manner by different devices (Computer and smartphones) with the help of a WEB platform and dedicated App.

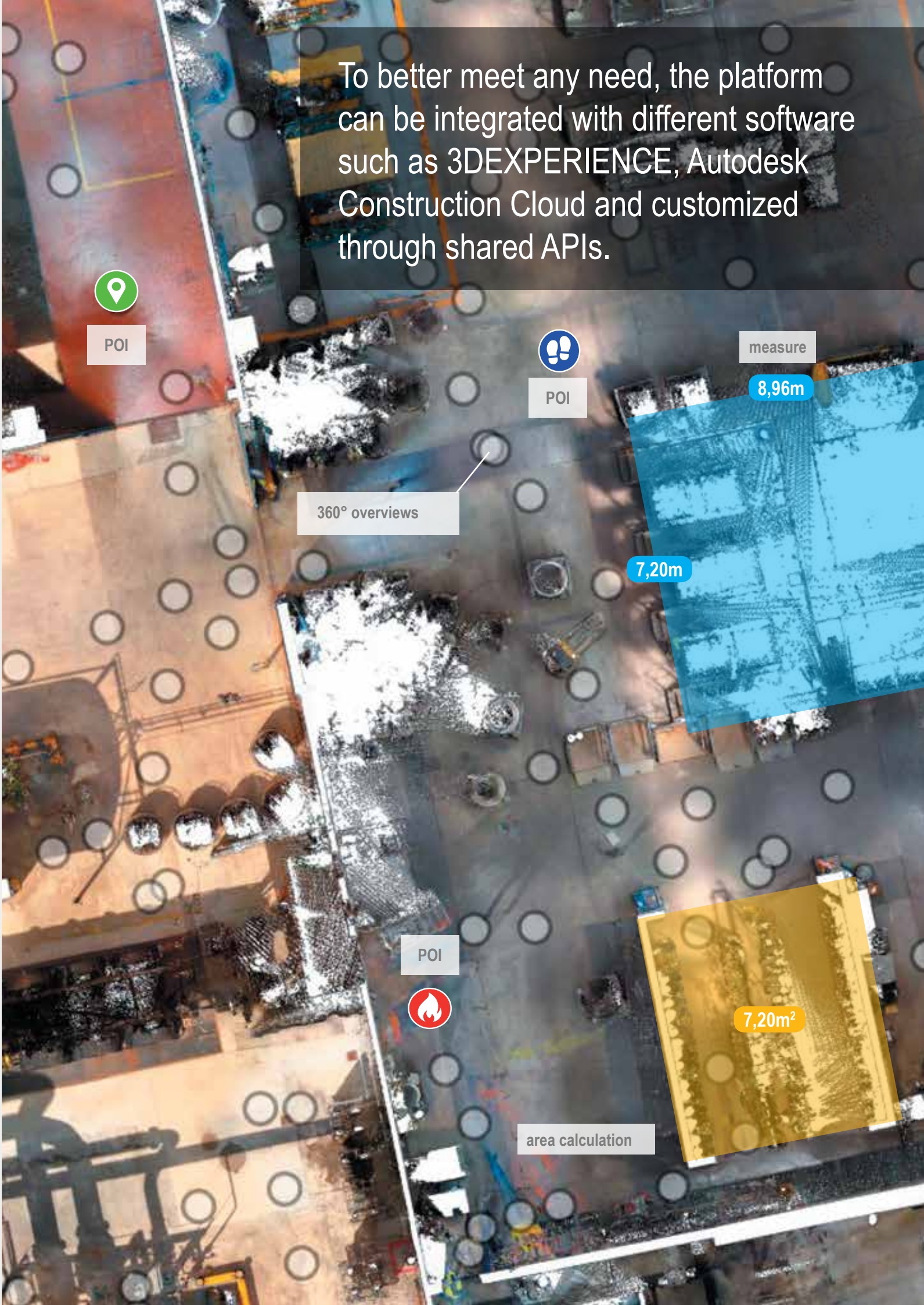


Measure and plan Layouts.

The application will allow professionals working in production to monitor the workshop via mobile devices, adding POIs (Point of Interest) and georeferenced notes.



Manage and share information via POIs (Gembawalk - 5S).



To better meet any need, the platform can be integrated with different software such as 3DEXPERIENCE, Autodesk Construction Cloud and customized through shared APIs.

Professionals working in the Lean Production field can improve the production sites where employees work on a daily basis.

GEMBA WALK

Gemba walk is a “walk ” that leads managers to walk through production environments, describing the production process in relation to the location where the various activities take place.

Operators can monitor the production lines and share, with a simple smartphone, the information collected during the daily inspection process.



5S

This is a strategy for identifying and managing the order and cleanliness of the workplace, for the future development of production activities.

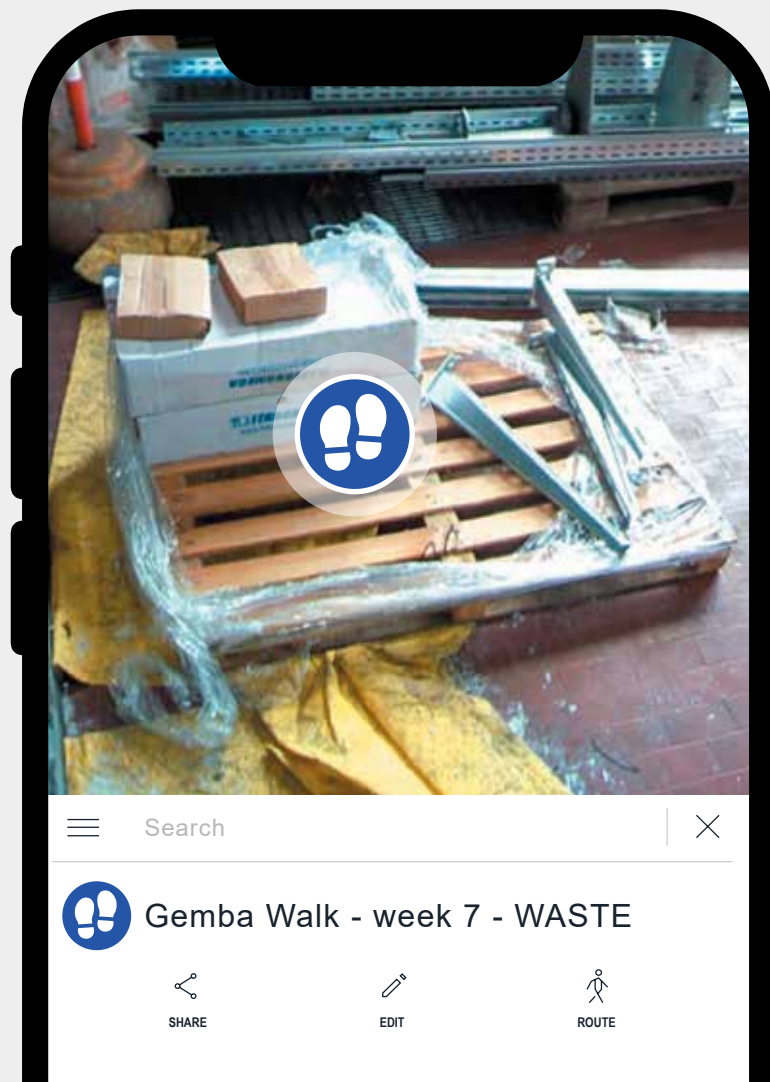
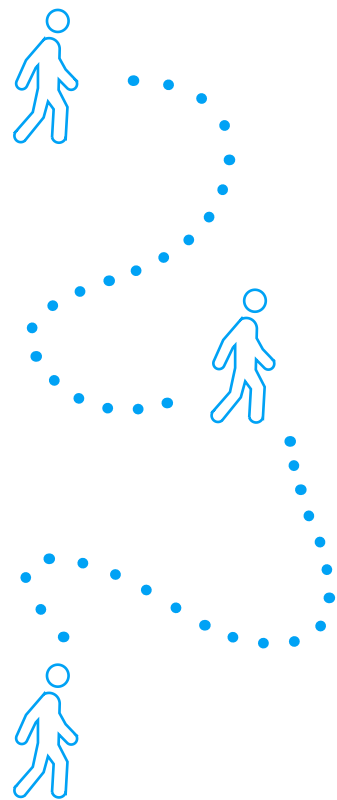
Seiri – Pick and sort

Seiton – Arrange and organise

Seison – Check order and cleanliness

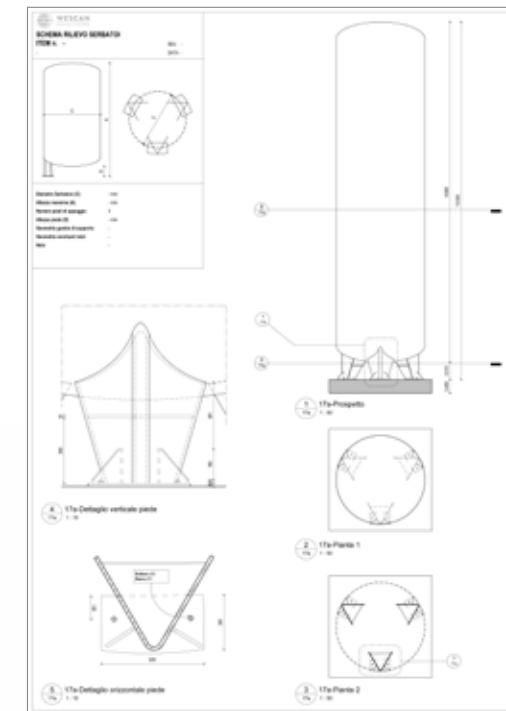
Seiketsu – Standardise and improve

Shitsuke – Sustain over time



“How do I get the information of my plant?
Can I improve the production process?
Which machines need maintenance?
How do I identify wasted space?”

GEMBA WALK and **5S** are two methodologies which, when combined, make it possible to **generate efficiency and value.**



3Units and WESCAN Solutions offer innovative solutions in the field of surveying, 3D modelling and digital restitution of the actuality.

Starting from digitized AS-IS copies of your facilities and thanks to our ability to manage large datasets, we implement **As-Built models** that allow you to have a multi-disciplinary view of your plants.

A BIM model is a model that associates an object category to each individual element.

OUTPUT

CAD

2D Solutions

A more reliable documentation of the current situation.

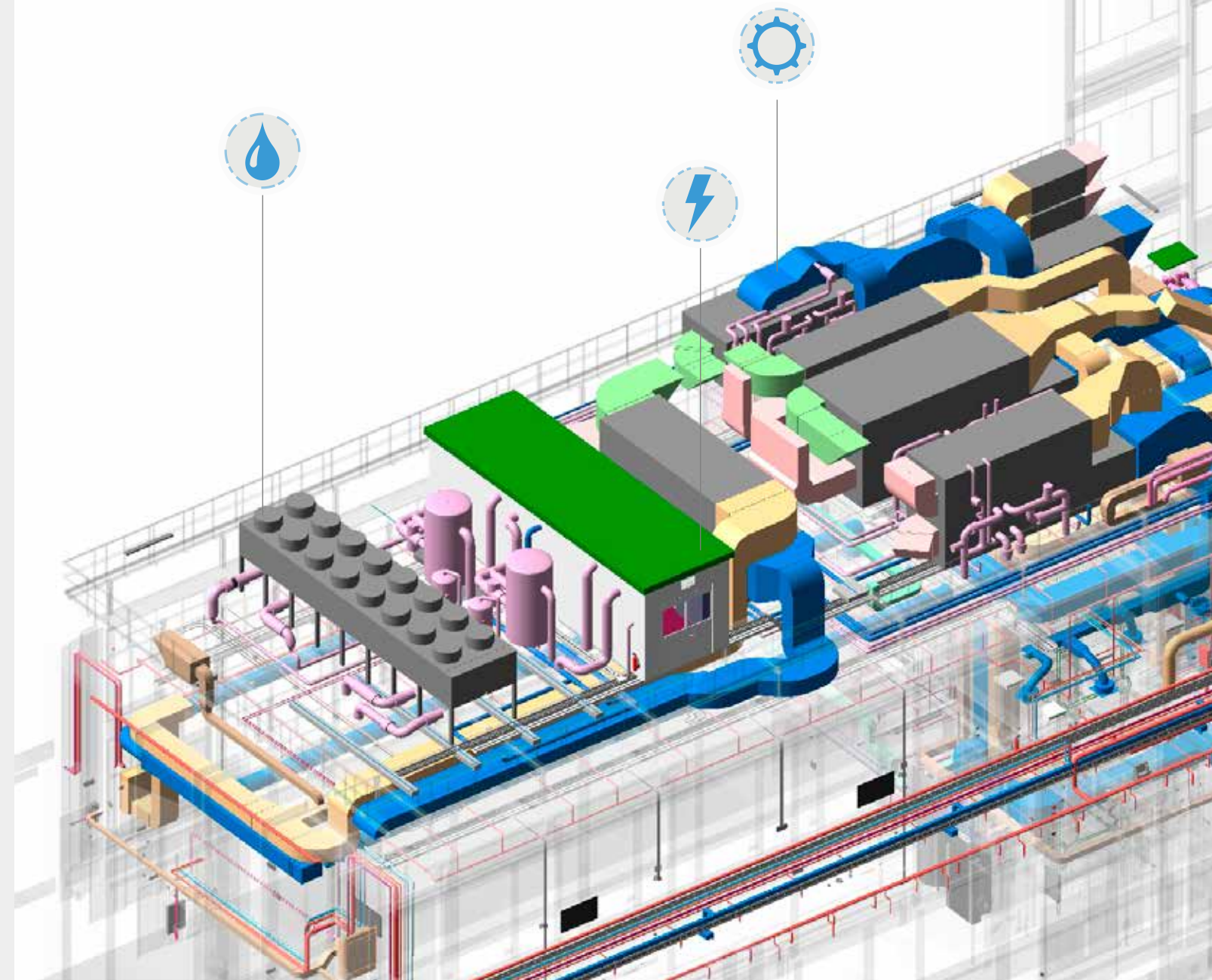
- DWG-DXF drawings
- Data sheets

BIM

3D Solutions

Greater detail and reliability rapidly achievable for a complete digital representation.

- BIM models
 - Architectural model
 - Structural model
 - Plant engineering model
- IFC models





Manage your **industry of tomorrow now.**

Remotely managing your **digitized production plant** means having all the information available at **any time** and **wherever you may be.**

The digital copy **guarantees certainty** in support of the planning and design of the production plant; **optimizes time** and **simplifies the decision-making process.**



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