

Digital twins and 3D scanning for advanced plant management





DIGITAL FACTORY SOLUTION

The 3Units Digital Factory transforms production plants into accurate digital models, accessible remotely at any time. Through advanced scanning technologies and intuitive interfaces, we support companies and technical teams in making faster, more informed decisions, improving cross-department coordination and the overall quality of available information.

Each project is managed through an integrated approach that combines engineering expertise, process digitalisation and collaborative tools. The platform enables immediate data visualisation, analysis and sharing, ensuring operational continuity, reduced downtime and more efficient management of plants and daily activities.

Improve decisions, timing and processes with reliable digital data that make it easier to act on production plants.

✓ Faster decisions

Digital models help teams quickly understand plant conditions and make decisions with greater confidence and clarity.

Collaboration boost

✓ Higher productivity

Accurate information reduces repeated checks and speeds up daily activities, improving overall departmental productivity.

Operational efficiency

✓ Cost optimisation

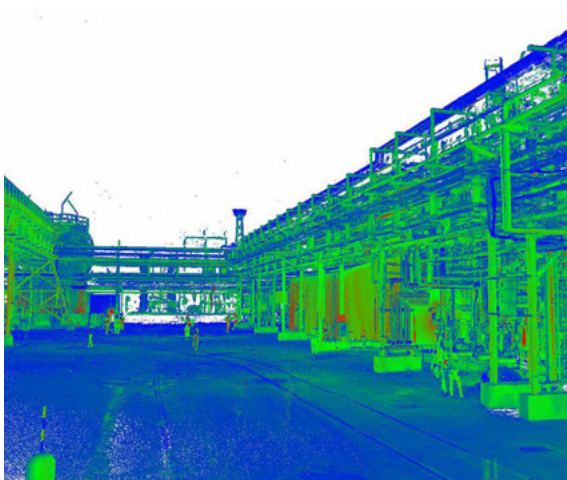
Digital tools reduce on-site activities and downtime, lowering operational costs and improving plant management.

Optimised resources

✓ Digital integration

Digitalisation centralises data and activities, simplifying controls and enabling faster, more effective collaboration.

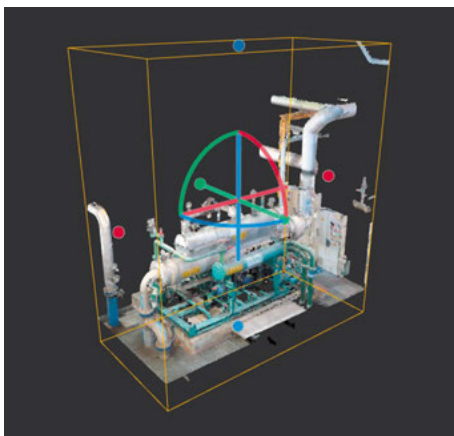
Smart maintenance



Our digital solutions support every stage of the production cycle, improving control, efficiency and operational decision-making.



EQUIPMENT



Digitising equipment provides accurate measurements and up-to-date data, supporting analysis and daily operational activities.

- ✓ Dimensional information
[Precision data](#)
- ✓ Maintenance reports
[Technical records](#)
- ✓ 5S and Gemba walk support
[Lean tools](#)
- ✓ Cross-department data sharing
[Shared information](#)

ASSET



Asset digitalisation supports simulations, predictive maintenance and more efficient management of industrial processes.

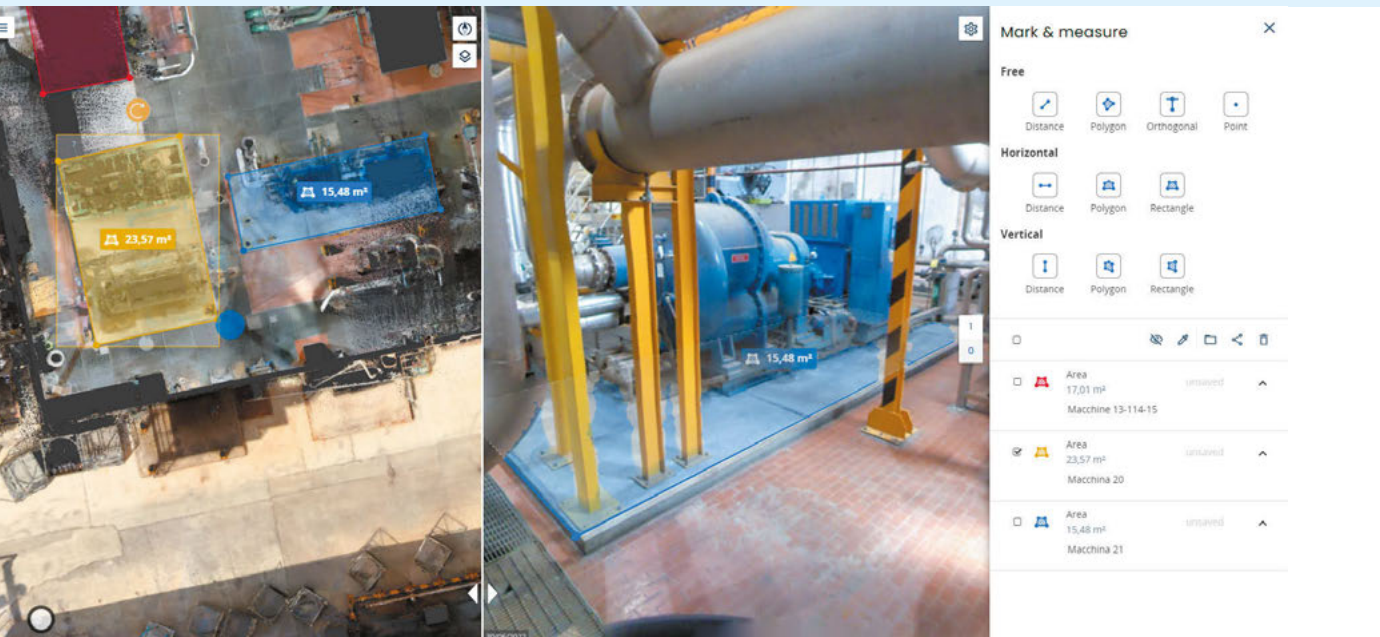
- ✓ Dimensional information
Reliable measurement
- ✓ Process and asset simulations
Advanced models
- ✓ Predictive maintenance
Condition monitoring
- ✓ Machinery installation
Plant setup
- ✓ Production workflows
Industrial flows

FACTORY



Plant scanning provides a comprehensive view of production processes, improving design, control and operational coordination.

- ✓ Building design
Facility planning
- ✓ Support and testing
Operational checks
- ✓ Commissioning
Plant start-up
- ✓ Machinery installation
Technical assembly
- ✓ Production workflows
Department activities



The platform allows full plant exploration, real-time data sharing and improved decision-making across operations.

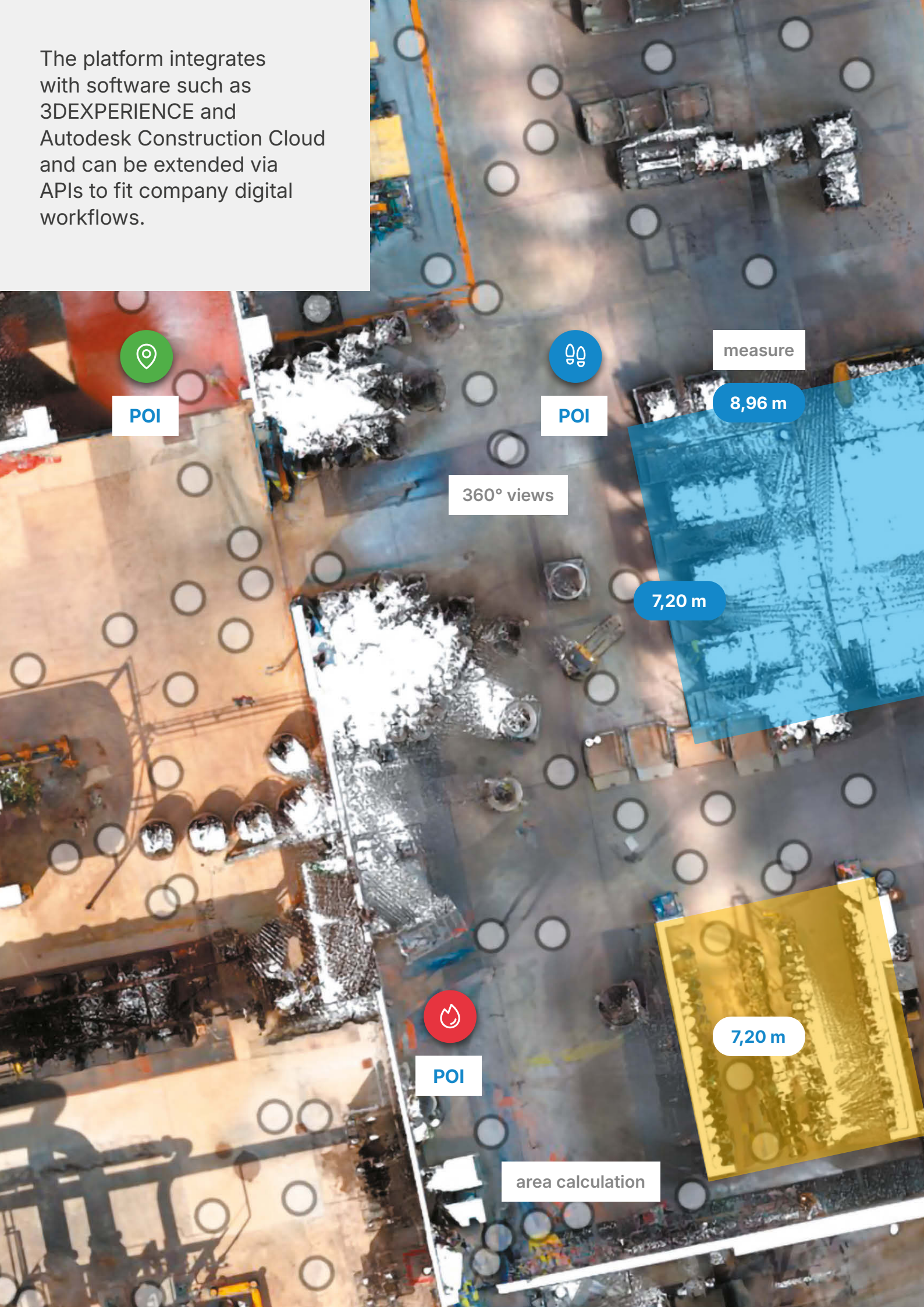
PRECISION, COLLABORATION, OPERATIONS

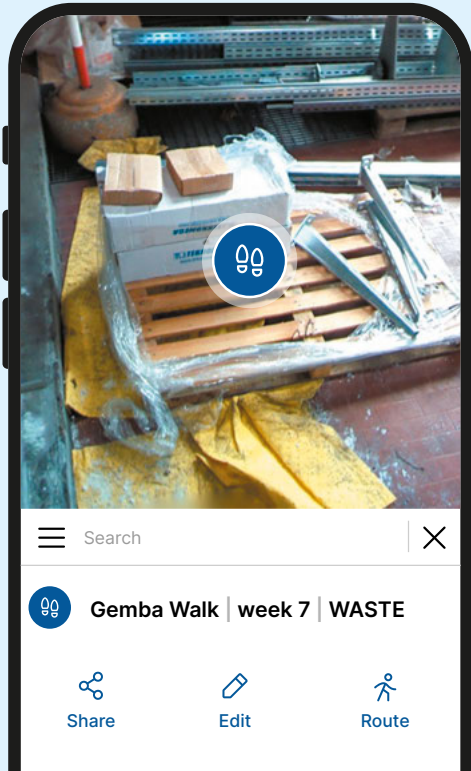
The platform enables users to view the digital plant, take measurements, add annotations and share updates in real time.

Thanks to the web interface and dedicated app, technical teams can securely access operational data from any device, anytime.

- ✓ Multi-device access
[Web & mobile](#)
- ✓ Technical annotations
[Georeferenced POIs](#)
- ✓ Integrated measurements
[Digital surveys](#)
- ✓ Real-time sharing
[Collaborative workflows](#)

The platform integrates with software such as 3DEXPERIENCE and Autodesk Construction Cloud and can be extended via APIs to fit company digital workflows.





- ❓ How can I access information about my plant?
- ❓ Can I improve production processes?
- ❓ Which machines require maintenance?
- ❓ How can I identify space inefficiencies?

Gemba Walk enables direct observation of on-site activities, helping to quickly identify issues and opportunities for improvement.

GEMBA WALK

Gemba Walk helps managers understand what really happens on the shop floor. Observing operational flows in their real context makes it possible to identify inefficiencies, assess risks and collect valuable insights to support continuous improvement.

Analysing processes directly on site allows teams to understand limitations and potential. Daily observation helps anticipate issues, engage teams and support more effective, informed decision-making.

- ✓ On-site analysis
[Direct observation](#)
- ✓ Inefficiency detection
[Operational issues](#)
- ✓ Continuous improvement
[Lean processes](#)
- ✓ Team collaboration
[Immediate feedback](#)

The 5S method improves order and operational standards, making workspaces more efficient, safer and easier to manage over time.

5S METHOD

The 5S methodology supports workplace organisation, reducing waste and simplifying daily activities. Clear standards help maintain order, safety and operational continuity across all departments.

Applying the 5S principles means creating more intuitive and controllable environments. Each step helps improve quality, streamline workflows and promote a culture focused on care, efficiency and consistency.

- ✓ Removal of unnecessary items
[Seiri](#)
- ✓ Clear organisation
[Seiton](#)
- ✓ Cleaning and inspection
[Seiso](#)
- ✓ Standards and discipline
[Seiketsu & Shitsuke](#)



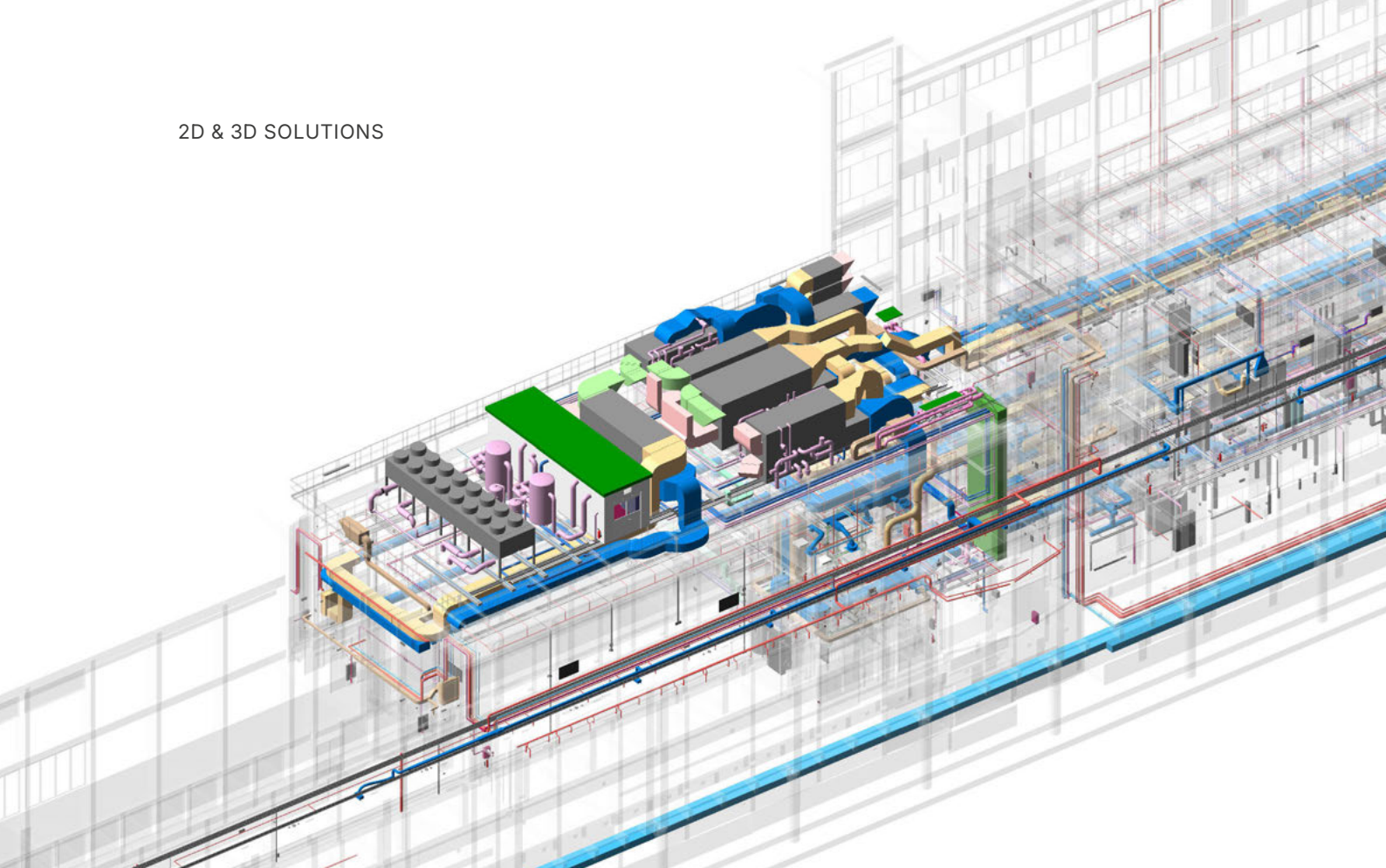
Essential technical documentation to clearly and accurately describe the as-built condition of production plants.

2D SOLUTIONS | CAD

2D solutions enable rapid updates of technical documentation, providing a clear and reliable representation of the as-built condition. Technical drawings support immediate analysis and enable faster, more informed operational decisions.

- ✓ Building design
[Technical documentation](#)
- ✓ Support and testing
[Operational checks](#)





3D SOLUTIONS | BIM

Le soluzioni 3D forniscono modelli digitali accurati che integrano architetture, strutture e impianti. Questa rappresentazione completa consente simulazioni, verifiche e analisi tecniche avanzate, riducendo rischi progettuali e tempi di intervento.

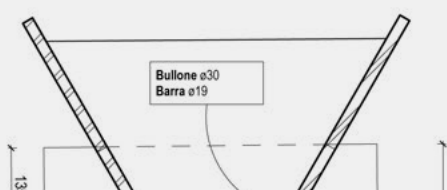
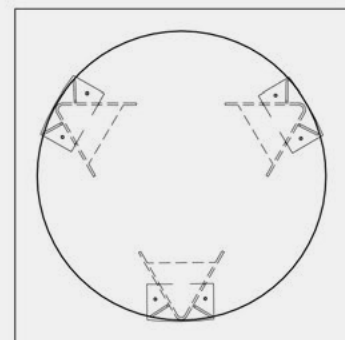
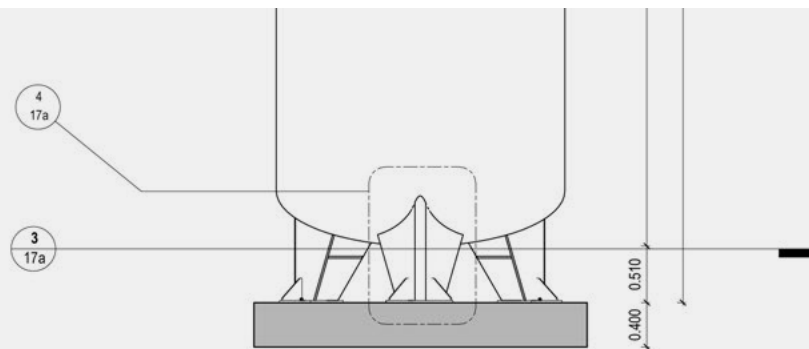
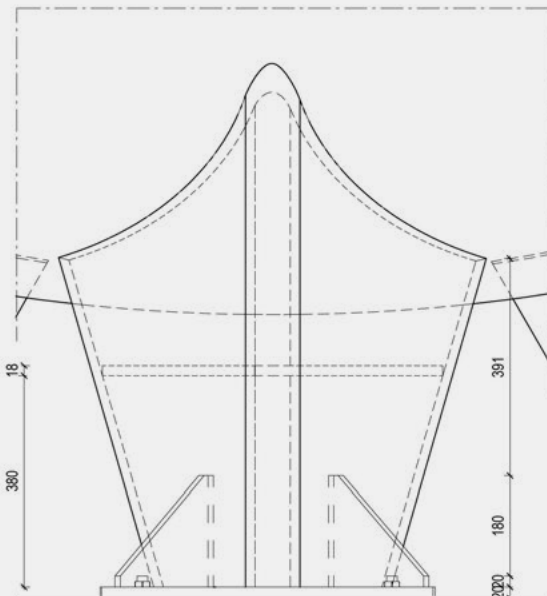
- ✓ **BIM models**
Coordinated models
- ✓ **Architectural model**
Building layouts
- ✓ **Structural model**
Technical analysis
- ✓ **Plant model**
Networks and systems
- ✓ **IFC models**
Interoperable formats

Advanced surveying technologies to capture accurate data, optimise technical documentation and support strategic decision-making.

OUR TECHNICAL PARTNERS

Wescan Solutions uses high-precision surveying technologies to generate reliable, up-to-date data of industrial plants. Accurate digitalisation provides a complete view of the as-built condition and supports faster, more efficient technical and management activities.

Our solutions integrate 3D surveying, dataset management and technical modelling, ensuring consistent and easily shareable documentation. Collected data improve intervention planning and reduce time requirements and margins of error during operational phases.





Let's design the future
of your business together.

3UNITS SAGL

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