



Process & Industry Information Management



eShare

Change the way
you think about
digital information

For EPCs, owner-operators, and project participants

Feel Empowered

CADMATIC eShare

Integrate, visualize and share plant engineering, construction and operational information in a web-based platform.

CADMATIC eShare is revolutionizing how EPCs, owner-operators, and project participants think about and use design, construction and operational plant information. eShare's powerful information integration and visualization leads to faster and more accurate decision-making.

Integrate

Access all project data in one place

eShare seamlessly integrates engineering data, procurement and construction data as well as operational and maintenance data of a facility. All project data is accessible in one place via the 3D model hosted in the eShare web portal.

The independent solution does not put data security at risk. No data relocation or cloud storage are required. Simply integrate and visualize information while maintaining control over sensitive data. With eShare search, you can find any item in the model, drawing, or external data and visualize it in 3D immediately.

Visualize

Speed up and enhance understanding

Having access to information is important, but the ability to visualize information provides additional benefits. In eShare, users can visualize any data available in the 3D model, external databases, or information that was added by users.

Different status and real-time information about engineering, construction or operation can be visually displayed in different colors for immediate understanding and fast decision-making.

Share

Bridge the information gap

eShare bridges the flow between engineering information produced in design applications and information produced during the construction, operation and maintenance of an industrial facility.

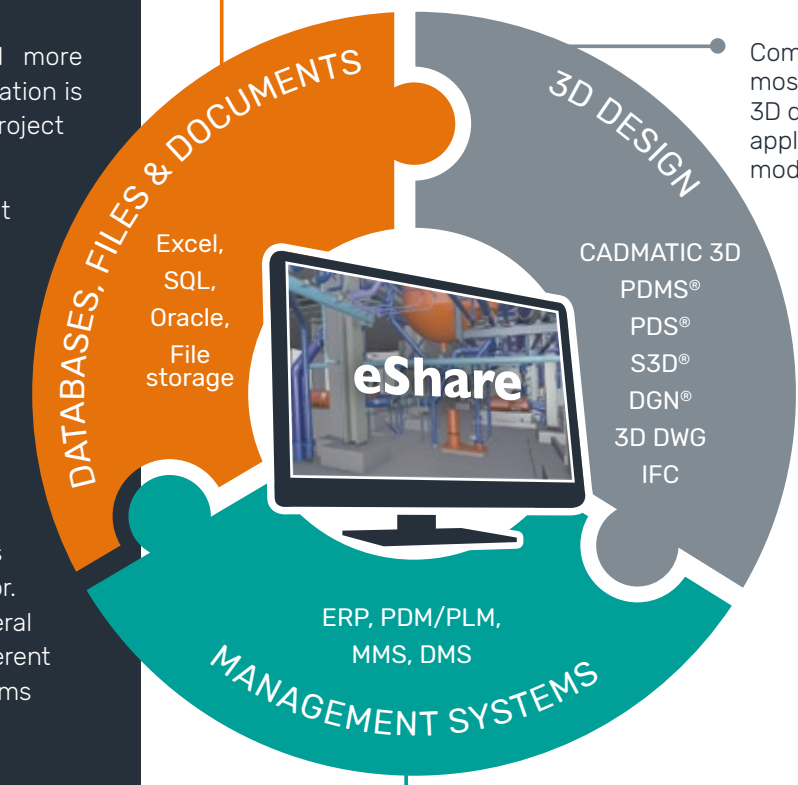
Enhanced information transparency translates into greater project efficiency. As information is added during the life cycle of the facility, eShare facilitates sharing and benefitting from all relevant facility information.

eShare – Key benefits

- Access all project data in one place – any data in any database can be integrated, searched for and visualized
- Make decisions faster and more accurately – the right information is available, all the time, to all project participants
- Boost efficiency of project progress monitoring by visualizing statuses based on several variables
- Retain full control over sensitive information: No data relocation or cloud storage. Effective support available whenever needed
- Independent solution means no reliance on single vendor. Easy participation by several project parties using different design and engineering systems

Ready adapters for file storage and integration with databases and flat data tables.

Compatible with most common 3D design applications and model formats.

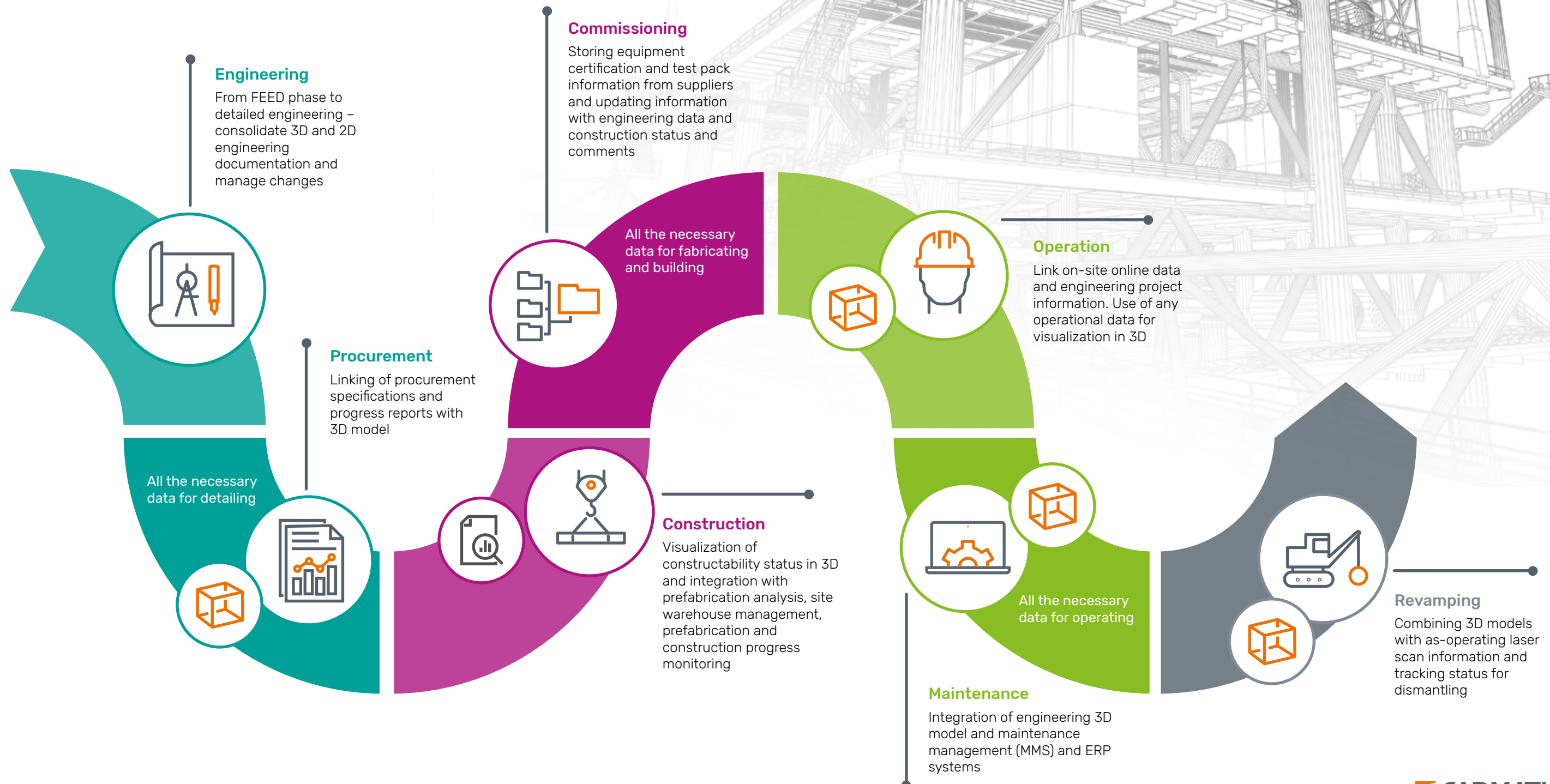


Integration with ERP, project and document management systems.

CADMATIC eShare

CADMATIC information management in all phases of a plant's life cycle.

eShare adds efficiencies and streamlines communication between project partners throughout the life cycle of industrial plant investments. From engineering, design, procurement, construction, operation, maintenance and revamps, eShare is the ideal asset management tool.



eShare for EPC projects

Integrated cross-platform visualization solution for all engineering, procurement and construction data

CADMATIC eShare provides a web-based platform to connect digital data related to industrial design and engineering, construction, and procurement, without the need to relocate data from systems that are already in use. The platform supports specific use cases tailored to EPC goals.



Facilitating engineering decisions, managing engineering progress and changes

- Use 3D model as discussion board to compare, comment on and review design changes
- Combine 3D models from various formats (PDS®, PDMS®, S3D®, CADMATIC, DWG®, IFC® and more) and laser scans of the facility
- Interlinked 3D and 2D documentation provide complete project data in an easily-accessible way
- Flow check in processes is 5 times faster with automatic color-based links between P&IDs and the 3D model
- Project review and access to engineering data on site with eGo on mobile tablet and use it to add pictures and comments from the construction site visit



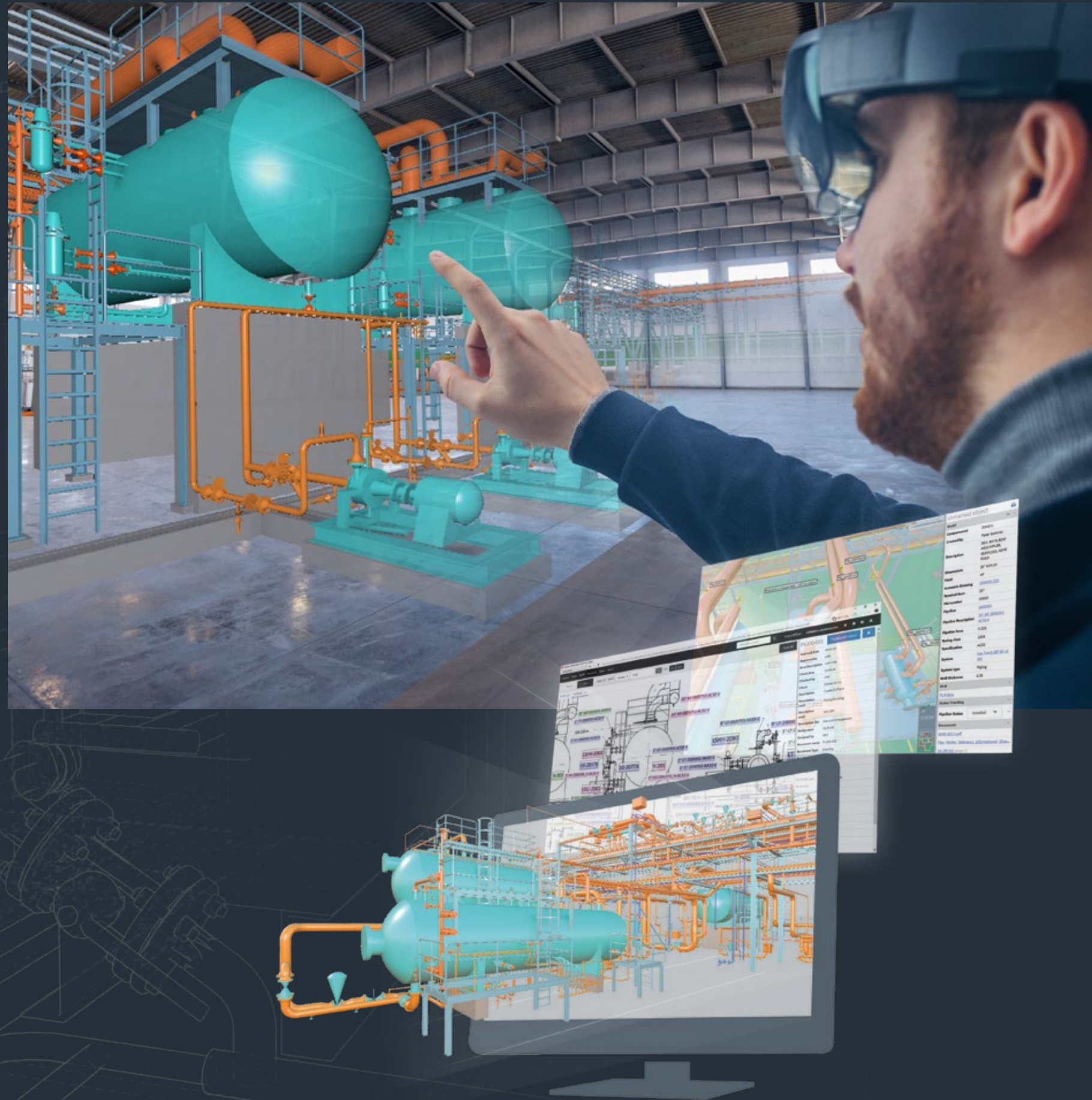
Enrich 3D engineering model with data from analysis and tracking systems

- Complete control of engineering data and standardized way of accessing data from different systems
- Categorization based on e.g. the stress calculation of pipelines
- Access information directly and automatically in 3D interface without need to use other systems or check documents



Effective support for construction phase

- Integration with feasibility data and constructability analysis combines data for:
 - » Prefabrication analysis
 - » Site warehouse management
 - » Progress monitoring of construction and prefabrication process and stages
- Use modern technology and align 3D digital data with existing environment in AR/VR/MR HoloLens®



eShare for owners and operators

Digital twin of projects in an easily-accessible web portal

eShare provides single-window access to all facility-related data. Integrate the 3D model, engineering data, 3D captured data from laser scans, as well as the plant's operational and maintenance data. Find, visualize and share project and asset information in a single, independent, and easily-accessible web portal.



Standardized way of accessing all asset information and performance data

- One window to all facility related data: easy access to data from different sources and handling of different data types
- Integration with maintenance management, ERP, SCADA, RBI and operational data eliminates the need to use these systems separately



Safeguard future plant operation - a feasible way to digitalize information

- Collect and combine 3D models and add laser-scanned data for up-to-date information
- Add information on top of 3D model and links to operational systems



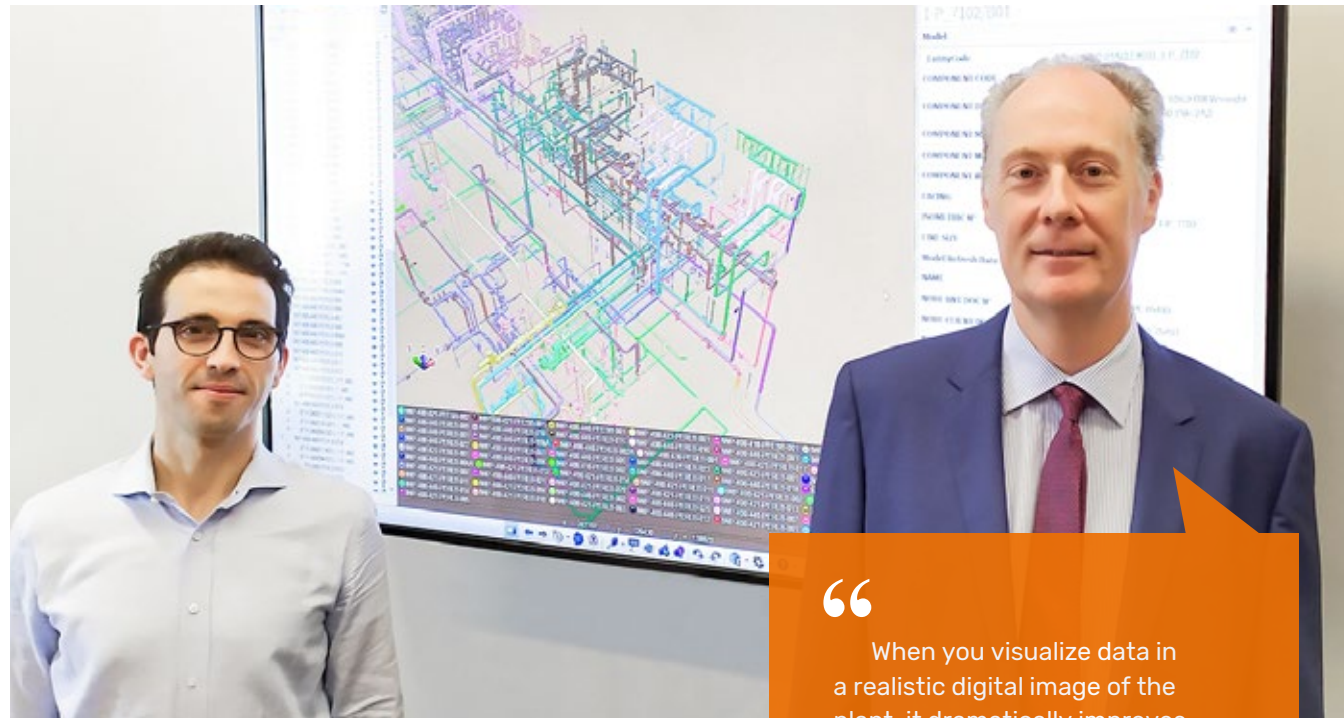
Project handover

- Manage transition from engineering and construction to operations with single-window access and linked information
- Complete set of 3D models, 2D documentation, and all the data from testing, commissioning and compliance reporting



Manage digital twin of the asset in easy-to-use platform

- Follow project progress and minimize the impact of changes during re-engineering and revamping
- Facilitation of revamping phase with status information updates for dismantling



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When you visualize data in a realistic digital image of the plant, it dramatically improves the quality of information conveyed to the user. It gives the site management a much greater amount of information in a single screenshot than can be achieved with traditional forms of reporting such as reports, tables, and graphs. This assists the site management to take more effective operational decisions.

– Massimiliano Del Rio, Construction Methodologies and Systems Manager

Bonatti:
EPC, Italian oil & gas general contractor

Challenge: Need to boost efficiency of constructability and construction project phases.

Solution: Implementation of CADMATIC eShare. As soon as the 3D model is available during detail engineering, conversion to eShare is done. As more detail is added to the model from engineering disciplines, the link to engineering data from different corporate systems is established.

Key reasons for implementation:

- Visualize the current status of the construction phase in the 3D model
- Provide support to construction site in managing and tracking specific activities (workface planning, material availability, installation statuses, erection certification, piping pressure testing, plant mechanical completion and handover)



SCA Obbola:
Swedish paper plant owner-operator

Challenge: Need to link paper plant's dispersed information spread across three systems into a single package. Benefit from digital twin of plant.

Solution: CADMATIC eShare implemented to integrate information contained in plant 3D model, the SAP production management system and the Sitebase plant database. Over 100 eShare users including maintenance, project and production personnel, and process engineers.

Key reasons for implementation:

- All plant information available in single and easily-accessible portal
- Easy and fast to search for and visualize information
- Use of converted 3D models from different design applications in eShare

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Thanks to eShare we can find all the information we need easily and fast, and in the same place.”

– Christer Björk, Project Engineer & CADMATIC administrator

“

Earlier we used special systems to publish P&IDs on our intranet. Nowadays they are not needed, since we search for the documents in eShare and inspect them there.”

– Peter Brunesson, IT Manager



Bonatti in brief:

Operations: International general contractor with more than 70 years of operation world-wide.

Segments: Oil & gas, power industry

Revenue: approx. €800 million (2018)

Employees: 10,000 +



SCA Obbola in brief:

Operations: Part of SCA Group. Cellulose and paper plant. SCA in Obbola for over 100 years and has produced kraftliner since 1975. 450,000 tons of kraftliner annually

Revenue: approx. €1,763 million (SCA Group, 2018)

Employees: 300 (SCA Obbola)



Process & Industry Information Management

CADMATIC is a leading 3D design and information management software developer and supplier for the marine, process, energy and construction industries.

- **CADMATIC's headquarters** are located in Turku, Finland.
- **We have staff** in Australia, Canada, China, Estonia, Hungary, India, Italy, the Netherlands, Russia, Singapore, South Africa, South Korea, Spain, Sweden and the UAE.
- We have **certified resellers** and support partners in 15 countries in Europe, Asia, America and Africa. Our growing customer base includes over 6000 customer organizations in 60 countries.



CADMATIC Process & Industry Information Management solution product family

- **eShare** – Digital twin of project in a web portal. Integrate, visualize and share plant engineering, construction and operation information in web-based platform.
- **eShare add-ons**
- **eGo** – 3D project mobile review for Windows tablets and backend connection to eShare web server.
- **eShare for HoloLens** – an entirely new interactive design and engineering experience in augmented reality where digital 3D models reside in the real-world environment.

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Try eShare for free in a demo model environment:



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