

Unison

Customer Success Story

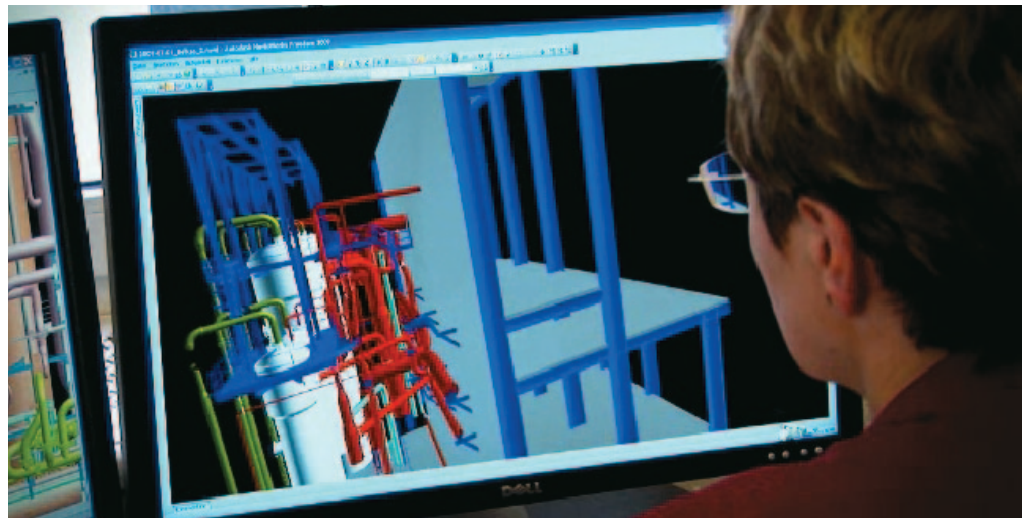
Autodesk Navisworks

“We believe Navisworks should be on the table of every engineer to help make work better, quicker and more cost-effective for the client.

—Leon Josepis
Managing Director
Unison Engineering

Autodesk Navisworks for every engineer—providing real-time project reviews and immense cost savings.

Unison Engineering implements Autodesk Navisworks to improve communication and client satisfaction.



About Unison Engineering and Consultants

Unison Engineering and Consultants serves its customers in the fields of chemistry, petrochemicals, pharmacy, power plants and biotechnology. Since 1994 Unison has offered a broad range of basic and detailed engineering services for piping systems and steel structure design. For the past seven years Unison has offered laser-scanning engineering services—an exciting part of their portfolio.

The company also offers services such as:

- Plant intake
- Concept and feasibility studies
- Authority engineering
- Installation planning
- Piping design concepts
- Static calculations
- Installation supervision

According to Leon Josepis, Managing Director, Unison's success to date has been driven by the company's "effort to provide up-to-date technology that we can integrate into the engineering workflow. That is the key issue—getting technology into the engineering and having it work to provide that advantage to our clients."

Constant, Coordinated Communication

Communication during an engineering project is a challenge for many companies. Increasing globalization allows Unison and other companies to work with clients in many different countries. And as with any classic engineering project, communicating the client's needs to the engineers and vice versa can also create challenges. Autodesk Navisworks has been critical in helping to fine-tune Unison's communication process to ensure the client's needs are implemented. Previously, a client would need to review hundreds of drawings, which was very time consuming. Autodesk Navisworks has helped reduce that client-review time to a couple of hours.

According to Josepis, Unison uses Autodesk Navisworks in a strategic manner as a communication tool: "It provides us with the quality assurance that we need for our projects. We can communicate with a client much better and relay their needs to our engineers. This eliminated the back and forth communications which are challenging in all engineering projects."

Now, with Autodesk Navisworks, Unison and its clients can view the design, discuss and solve problems, and the next day, Unison's engineers get those changes back into the engineering design process.

Autodesk®

Quick visual access to projects eliminates constant review cycles.

Implementation Tools Provide Cost Savings

Unison helps several clients deal with clash detection—a common problem that needs to be addressed in large projects. This is a big concern in engineering projects that deal with existing plants, which usually have inadequate documentation.

For example, Unison's project with BMW World highlights this challenge and the solution that Autodesk Navisworks provided. One of the goals for the project was to determine interferences and clashes that existed between a damaged and deformed steel structure and the existing panel on which the steel structure was to be built.

Autodesk Navisworks played a key role by helping Unison identify those clashes. It also provided additional cost savings by allowing BMW to salvage material that was already in place. Typically this material would have been wasted, but Autodesk Navisworks provided tools to use and implement the engineering data for the structure, which in turn provided huge cost savings for the client.

Easy Integration

Another reason Unison chose Autodesk Navisworks was its ability to aggregate models from different CAD systems. For example, during one project, Unison's engineers were using MicroStation by Bentley and the client was working with Autodesk's AutoCAD. Autodesk Navisworks aggregated the two systems and provided a visual picture as well as an engineering solution for the project.

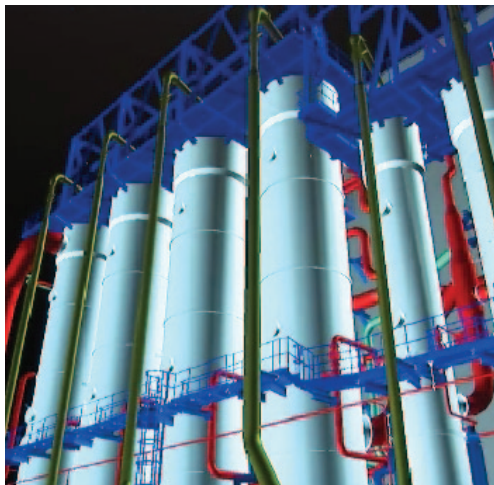
That visual picture is a key competitive advantage and provides Unison's clients with quick and direct access to the company's design data. Visual walk-throughs of a project also speed up the communication between clients and engineers—clients can see what engineers are doing while they're working on the project.

The powerful integration of data and other systems with Autodesk Navisworks, as well as the ability to provide 3D design visualization, prompted Unison to provide the software to every engineer in the company. Josepis says: "We believe Navisworks should be on the table of every engineer to help make work better, quicker and more cost-effective for the client. It has provided a huge advantage in our engineering workflow."

By combining design data created by different software applications, Autodesk Navisworks provides Unison with a whole-project view that:

- Improves design decision-making
- Streamlines construction documentation
- Allows clients direct visualization to design data
- Speeds up communication between engineers and clients
- Provides cost and time savings

Now that existing detailed 3D design models can be aggregated and shared for review between Unison and its clients, Autodesk Navisworks is at the heart of their engineering workflow.



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