



Integrated, Data-Driven  
Engineering Solution for Plant Design



## Integration of the Entire Engineering Process

Transforming the production chain with a focus on sustainability while simultaneously increasing operational efficiency is a significant challenge for the process industry and consequently for plant design.

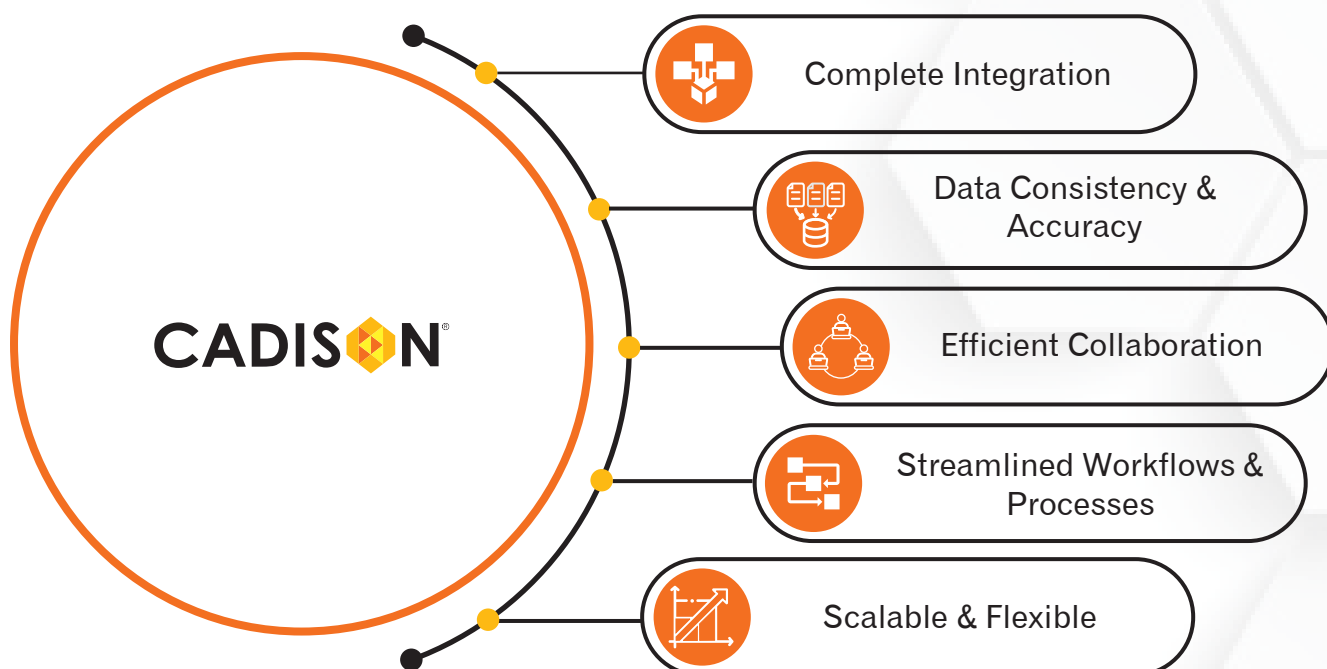
**Working across multiple systems and software tools often leads to:**

- ▶ Transfer errors and data inconsistencies
- ▶ Higher project costs
- ▶ Longer project durations, resulting in reduced margins

**The way forward is to address these root causes and unlock higher project profitability. This is achieved by unifying the entire engineering workflow through a centralized, data-driven platform.**

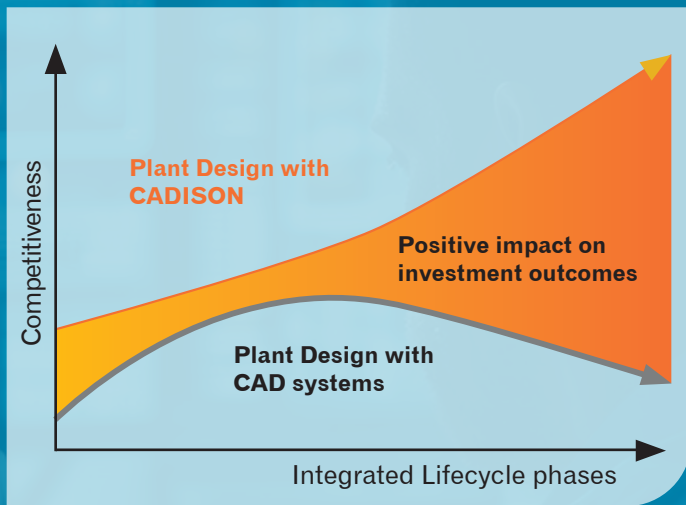
**CADISON enables this integration seamlessly.**

**With CADISON, your processes run seamlessly from initial design to the entire plant lifecycle.**



# Engineering Workflow. Now Significantly More Efficient.

Where traditional CAD systems once offered a practical approach, today's challenges require more. The future lies in a seamlessly integrated engineering process that connects all disciplines and data.



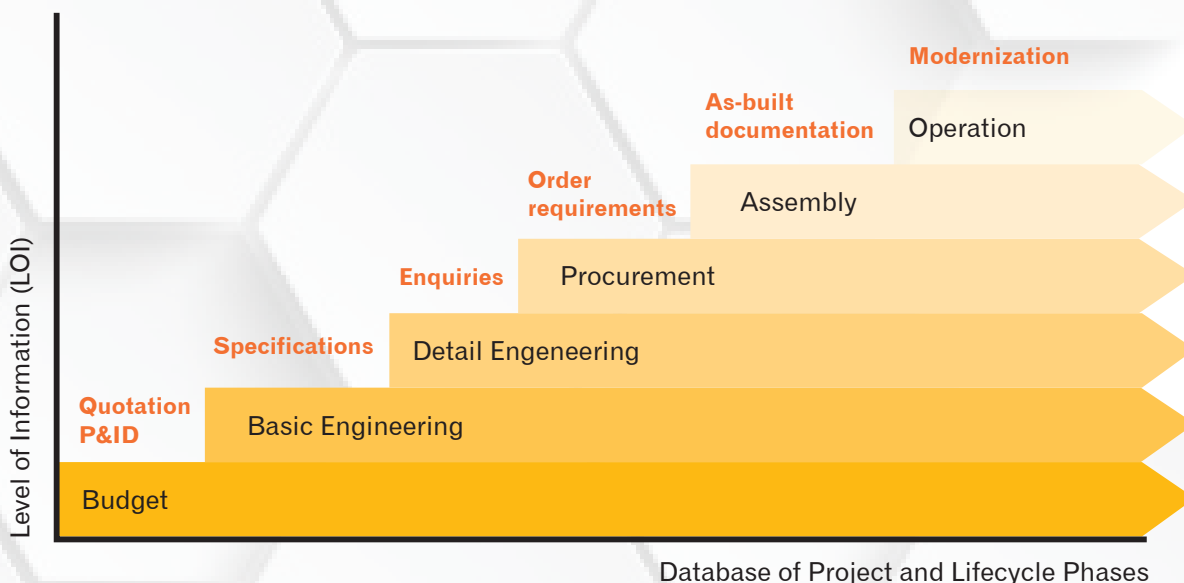
**Boost competitiveness and maximize value creation with:**

- ▶ Real-time, multi-disciplinary collaboration
- ▶ Faster project execution and fewer errors
- ▶ Seamless integration into your existing workflows through powerful interfaces
- ▶ Cutting-edge technology designed to accelerate your digital transformation

**In short: You gain maximum protection for your investments and long-term future.**

## CADISON combines the entire Engineering Workflow in One System

Users always access the most up-to-date project data-across all required views and all disciplines. CADISON automatically transfers all relevant information from the current project stage to the next engineering stage. This ensures a continuous, end-to-end workflow throughout the entire project lifecycle.





**CADISON**<sup>®</sup>

**The complete solution  
for seamless collaboration  
across all disciplines**

CADISON is designed for use across the complete plant lifecycle. Its data-centric engineering approach provides the basis for quality assurance, efficiency improvements, standardization, automation, and continuous innovation. In this way, CADISON embodies a truly end-to-end digitalization strategy-enabling you to reduce complexity by making smart use of digital process data.

**Electrical Engineer  
and MSR Planner**

develop detailed schematics, cable routing, and control cabinet layouts using CADISON Electrical Designer.

**Project Manager  
and Plant Operator**

access and review planning data and documentation with CADISON Project Navigator.

**Process Engineers**

use CADISON P&ID-Designer to create block flow diagrams, process flow diagrams, and detailed P&IDs.

**Project Engineers**

use CADISON Project Engineer to structure the plant and detail both the technical and commercial data.

**CAD Administrator**

use CADISON MATPIPE to set & maintain standard catalogs and pipe specifications for projects.

**Operators**

can manage and schedule all recurring maintenance and inspection tasks with the CADISON Maintenance module.

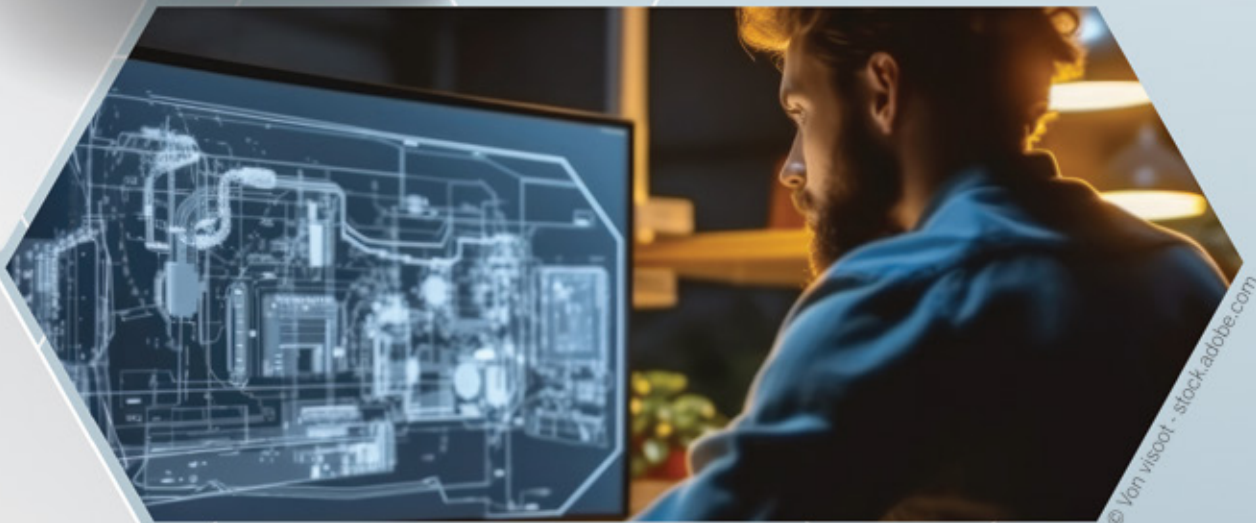
**Piping & Installation  
Engineers**

leverage CADISON 3D-Designer for high-precise 3D design - from initial modeling to finalized isometric documentation.

## From PDFs to Intelligent P&IDs

**With CADISON, convert vector-based PDF P&IDs into intelligent, data-driven diagrams**

- ▶ Combination of automated processing, OCR and machine learning
- ▶ Extract symbols, text, pipelines, and tags into the CADISON environment
- ▶ Eliminate manual redrawing and reduce errors in projects and deliver consistent, reusable data



## Open System Architecture for Easy Data Exchange & Seamless Review

**CADISON supports the complete plant lifecycle, with seamless information flow to and from other systems.**

- ▶ **IFC-Interface** - simplifies data exchange between all project participants, including the building services disciplines.
- ▶ **ERP-Interface** - creates a connection to business management systems.
- ▶ **DEXPI-Interface** - an integrated, universal exchange format for P&ID data.
- ▶ **CAD-Free Web-based 3D model review** - Even employees and clients who do not work with CADISON can review the plant's 3D model and record change requests, which are then fed back into the system.
- ▶ With an **add-in**, redlining and review can be performed directly on a Plant drawing (both 2D and 3D).

**Thanks to its open interface technology, we can integrate CADISON into almost any existing system landscape.**

# CADISON is Data-Driven

CADISON delivers all essential functions for the full engineering workflow right out of the box. At its core is a central database that enables a truly integrated, consistent, and modular system

## **CADISON Project Engineer**

A non-CAD tool for Project Planning, Cost Estimation, Document management, and workflow control. Supports conceptual engineering, bid proposals, task scheduling, and full project tracking from concept to commissioning. Also includes an integrated CAD-independent 3D preview capability.

## **CADISON P&ID Designer**

A comprehensive, spec-driven module for creating intelligent PFDs, P&IDs, and instrumentation (measurements, hook-ups, and I/Os). Complies with global standards - DIN, EN, ISO 10628, ISA 5.1, ANSI, etc.

## **CADISON 3D Designer**

A complete 3D plant design module for Plant Layout, Pipe Routing, Equipment Modeling, General Arrangement & Isometric Drawing creation and Report Generation (BOMs, MTO & Datasheets).

## **CADISON Electrical Designer**

A comprehensive solution for Electrical Engineering Design. Has a unique combination of tools for 2D Schematics & Controls Design, 3D Conduits & Trenches, 3D Cable Tray & Panel Layouts with inbuilt Electrical Sizing Calculations.

## **CADISON Steel Layout**

A wizard-driven module for planning and creating 3D Steel Structures like Ladders, Staircases, Platforms, Handrails, Trusses, Tanks and Custom Assemblies such as Pipe supports, Spiral staircases, etc.

## **CADISON MATPIPE**

A Parametric Catalog Engine for creating and managing Pipe Classes, 3D Catalog Objects, and Manufacturer Catalogs with option for centralized, multi-site management over intranet or internet.

## **CADISON Pipe Support Modeler**

An intelligent wizard that simplifies the creation and modification of standard pipe supports, with extended functionality for electrical cable trays, HVAC ducting systems, and bus-ducts supports.

## **CADISON P&ID Designer for Microsoft Visio**

A spec-driven tool for creating intelligent PFDs/P&IDs in MS Visio with support for pipe and pump sizing, report generation & real-time integration with other CADISON modules.

CADI

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#### **CADISON Archiver & Browser**

A tool for archiving and browsing completed CADISON projects, enabling easy viewing, knowledge management, and project restoration for future use.

#### **CADISON ROHR2 & CAESAR II Interface**

Enables neutral export of pipeline systems from CADISON 3D Designer to ROHR2 or CAESAR II for fast, accurate static and dynamic pipe stress analysis with complete data transfer.

#### **CADISON ERP Interface**

Connects CADISON with ERP systems like SAP or others for dynamic data exchange, enabling workflow integration and subsequent direct release of purchase order.

#### **CADISON Inventor Interface**

Allows importing and updating Autodesk Inventor parts or assemblies with properties into CADISON as native objects (included in 3D Designer).

#### **CADISON Equipment Simplifier**

A wizard for simplifying large equipment models from various CAD formats by up to 90% and exports them as DWG for CADISON.

#### **Application Programming Interface (API)**

Enables users to integrate CADISON engineering workflow with business workflow and organization specific document management tool. Also enables external access to CADISON data and dynamic data exchange.

#### **IFC Interface with BIM Solutions**

Enables import and export of graphics and data between AEC tools and CADISON 3D Designer, supporting IFC2x3 and IFC4.x with full object property mapping.

#### **CADISON Navigator**

A project data navigation and review tool with a familiar interface, supporting paperless documentation and plant operation and maintenance.

## Your key to continuous, lasting efficiency

For us, it is a matter of course to support you in using CADISON exactly as your team and project require. No matter which service you choose, you will always benefit from the extensive industry and application-specific expertise of our technical specialists. The more steps we take together, the faster and more efficiently you will be able to get up and running with CADISON.

Hotline and Support

Software Maintenance and Support

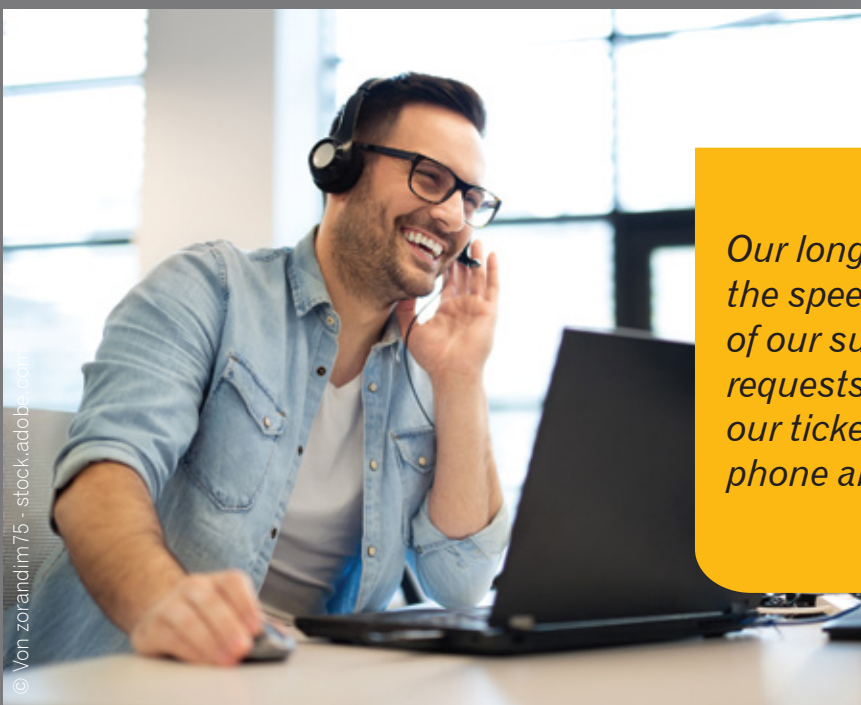
Consulting and Customizing | Project Support

Workshops and Trainings

Installation Support and Implementation

Licensing

## Full Life Cycle Partner – comprehensive services across all stages of your project



*Our long-term customers value the speed and personal attention of our support. With us, your requests whether submitted via our ticketing system, email, or phone are handled promptly.*

## 8 Reasons to Choose CADISON as Your Central Engineering Platform

### 1. Integrated, End-to-End System with Modular Architecture

Combine functional modules to match your specific project requirements.

### 2. Centralized Data Management Across All Planning Phases and the Entire Plant Lifecycle

A single, always up-to-date source of truth-accessible to everyone involved.

### 3. Open Interface Technology for Seamless Data Exchange

From ERP to IFC, existing systems are easily connected. The open architecture ensures continuous data flow and flexibility.

### 4. Web-Based Viewer for Collaboration on the Digital Twin

Redlining and approvals are possible-even without a CADISON installation.

### 5. BIM for Plant Engineering

From initial proposal to modernization, all disciplines work with current data-supporting efficient and cost-effective projects.

### 6. Measurable Efficiency Gains

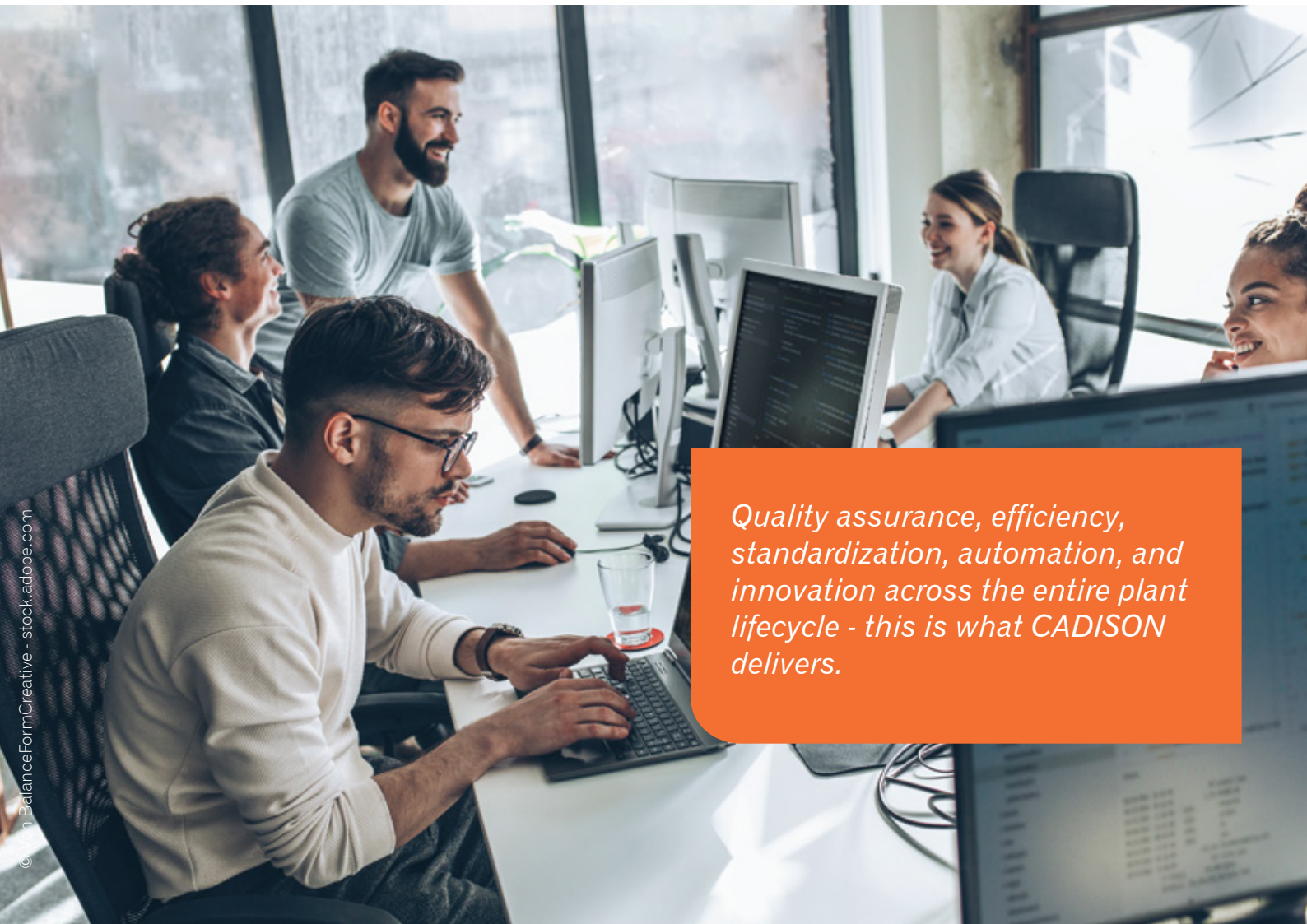
Shorter engineering cycles and fewer errors enable up to **30% more efficient project execution**.

### 7. Flexible Adaptation to Corporate Standards and Plant Norms

Meet formal project requirements while ensuring consistent quality assurance.

### 8. Your Lifecycle Partner

We support your use of CADISON according to your needs, with optional consulting and customizing services.



*Quality assurance, efficiency, standardization, automation, and innovation across the entire plant lifecycle - this is what CADISON delivers.*



## Successful Customer Projects

CADISON has empowered customers from diverse industries to deliver outstanding results. Discover some of our real-world success stories below.



### **Open Grid Europe GmbH** Energy and Gas Networks

With CADISON, the company's 12,000 km gas network now follows unified engineering processes—standardized projects, accurate asset data, and a single information base for all locations.

### **ZIEMANN HOLVREIKA GmbH**

Food and Beverages

Breweries are particularly suited to modular construction, as certain areas either need to be added or modernized. CADISON comes across as the perfect platform for this.



### **Technoforce Solutions** Advanced Process Equipment Manufacturer

With CADISON, Technoforce streamlined engineering-to-manufacturing workflows, delivering accurate isometrics, BOMs, and reports with fewer revisions and faster turnaround.

### **Vision Engineering & Consultancy**

Oil & Gas Engineering Services

CADISON helps Vision Engineering & Consultancy deliver Brownfield and Greenfield Oil & Gas projects faster and more cost-effectively through intelligent 3D modeling, standardized workflows, and centralized data management.



### **Mitsubishi Chemical Group** Chemical Manufacturing

CADISON enables Mitsubishi Chemical UK to standardize and accelerate intelligent P&ID design with a centralized, data-driven approach. Seamless Visio-based workflows, easy data exchange, and lifecycle-ready integration improve efficiency while ensuring consistency across disciplines and projects.

### GTI Energy

Hydrogen & Clean Energy

CADISON P&ID Designer for Visio supports GTI Energy in creating clear, consistent P&IDs for hydrogen projects, enabling structured process design in a fast-evolving energy landscape.



### Zeta GmbH

Biopharma

ZETA counts on CADISON for fully integrated, data-consistent plant design. The engineering platform is a cornerstone of the company's digitalization strategy.



### Alfa Laval

Global Leader in Heat Transfer, Separation & Fluid Handling

CADISON has been a core engineering platform at Alfa Laval for over 15 plus years, with deeply customized workflows aligned to corporate standards and advanced MATPIPE usage supporting complex piping requirements.



### MEDAS EnggDesign Pvt. Ltd.

Process Engineering Solutions – Alcohol/Ethanol & Food Industries

With CADISON, MEDAS improves design reliability and project quality by minimizing errors during revisions and maintaining consistency across evolving engineering deliverables.



### GEA Group AG

System Provider for Food & Beverages and Pharmaceutical Industries

CADISON makes it easy to define and maintain standards, especially because many plant areas are often very similar or even identical. It supports all disciplines-from P&IDs, layout and piping design to ERP connectivity and even shipping & logistics.

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