PROCESS & PLANT ENGINEERING FOR THE PHARMACEUTICAL INDUSTRY

The Pharmaceutical Industry is the most dynamic industry and due to its fast pace growth, the market is the most demanding one, in case of technology and standard protocols. Extreme quality assurance, tough deadlines and immense cost pressure, these are the demands which currently dictating the Pharmaceutical Plant Engineering. Due to its accelerating growth this industry calls for a technological solution for plant engineering which can give real-time insights, adapt any process workflow, provide seamless integration and deliver quality manufacturing designs. Pharmaceutical leaders are always in pursuit of a tool which can not only notify and forecast the demand surges but can also help in implementing the changes immediately to the production plans and plant design.

Pharmaceutical Plant Designers and Operators face the dual pressure of staying in the competition by increasing the productivity & flexibility of the plant and better control & monitoring over Plant Data.

With CADSION Solution many owner-operators are able to implement digital transformation in their plant engineering as the core of their pharmaceutical plant operations. By adopting CADISON as core solution, many organizations worldwide already empowered their Process Engineers with the modeling capabilities that maintain a digital design thread as products move from R&D & pilot project to the full manufacturing cycle.
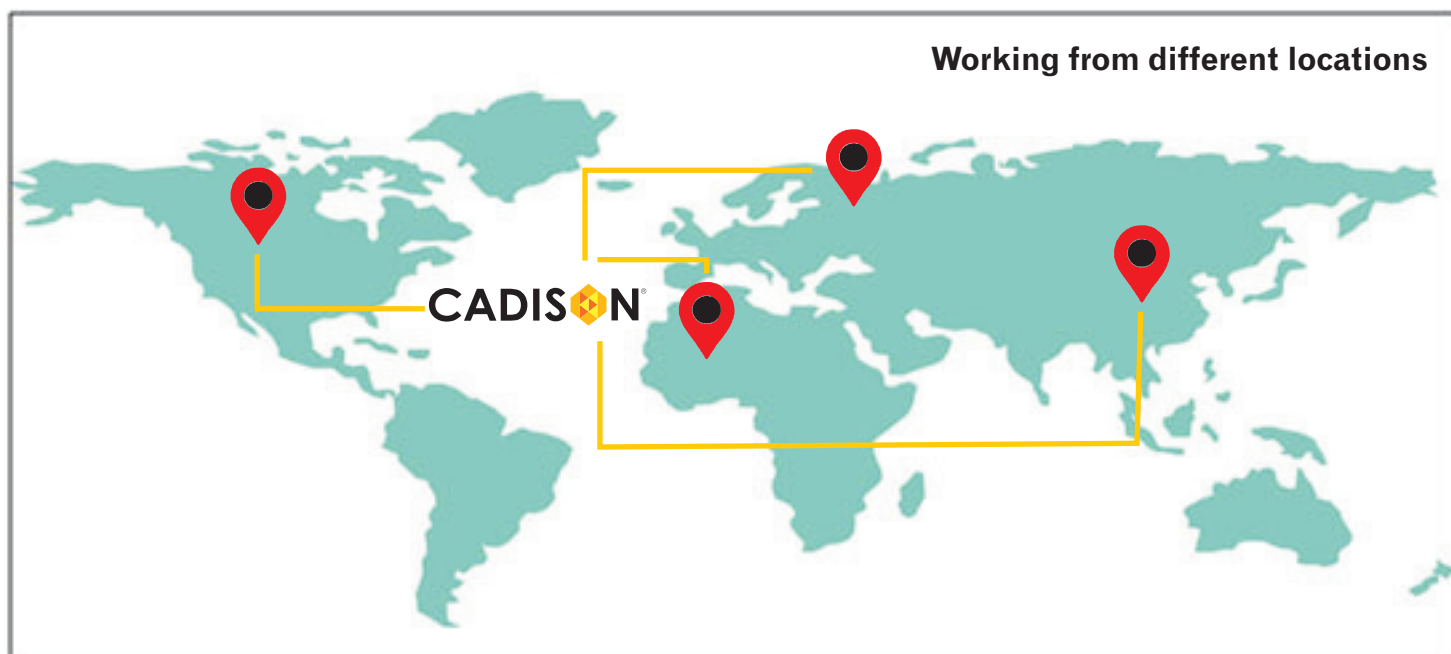
Project Management in Pharmaceutical Industry
The key challenge for the Project Managers during the project execution phase is to manage changes and updation skillfully and adaptively. Successful project completion is only possible if most of its work has been done and checked throughout the project lifecycle. Proper compilation of all documents and information as per the regulations and compliances needs to be in check. For a successful project completion, the Project Managers need to be ready for the unforeseen change adoption and should be able to balance between the scope of the project, resource allocation and on-time delivery.
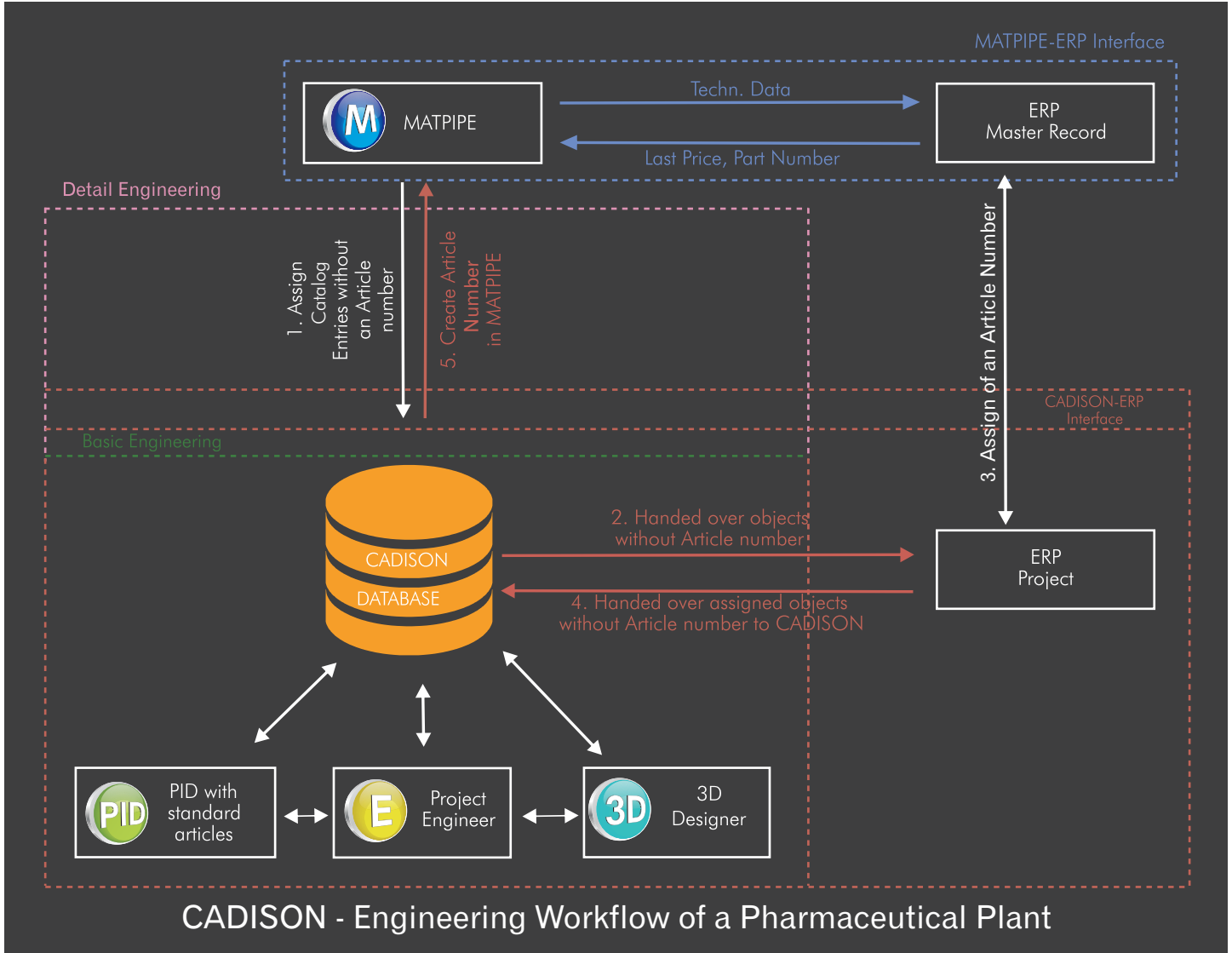
CADISON Project Engineer module (Non-CAD module) enables Project Leaders to plan, create and monitor the project data without the need for CAD or Graphics software. It allows Project Manager to work with all design and execution teams working from different locations in a collaborative environment, in controlled manner, with flexible access to all project data.

Data management and Asset Tagging Solution
Effectively manages and controls the engineering data (graphical/non-graphical) for sharing it with multiple teams, enabling project collaboration without additional administrative burden.

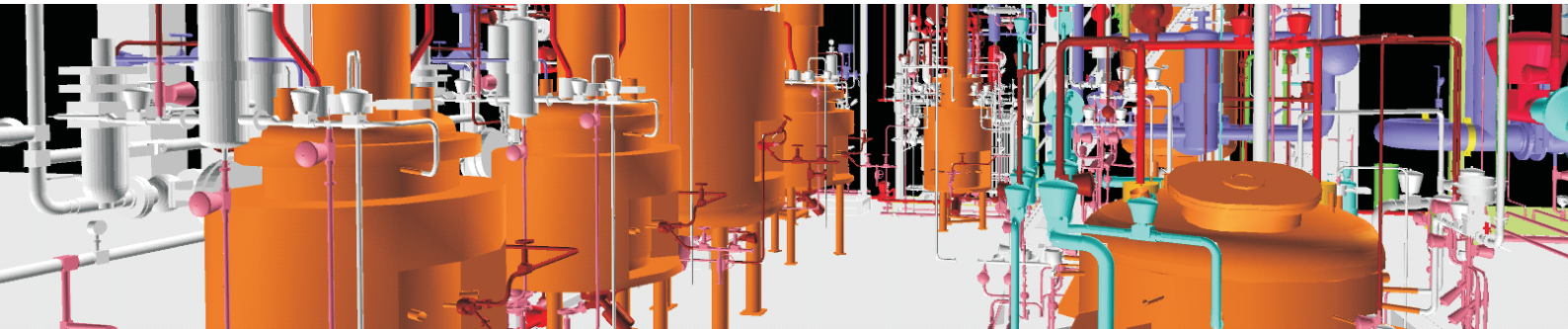**Working from different locations**

CADISON

CADISON is used for pharmaceutical industry projects worldwide, is a customizable and specification-driven suite of powerful, multi-user plant engineering applications ideal for pharmaceutical designer requirements.

CADISON - Engineering Workflow of a Pharmaceutical Plant

The Pharmaceutical Industry is one of the most crucial industries as it has the responsibility of developing cutting edge healthcare products. The pharmaceutical facilities demand a high level of process automation with no margin for error. Thus, Piping and Instrumentation Diagrams (P&IDs) becomes an essential and integral part of any pharmaceutical facility design. As the product composition materials flow through the piping systems, the P&IDs need to be efficiently designed and have to meet the stringent guidelines & Industry standards. It is important to generate accurate and detailed documentation of every process phase in a project. This requires a software solution that can integrate into the high-end automation process and can regularize the complete design process with detailed & automated document generation. CADISON is an all-in-one platform that offers the full spectrum of pharmaceutical piping design engineering activities.

CADISON P&ID is a rule-based engineering solution that effectively supports designer to accurately design a plant as per engineering standards such as ASME Bio-Processing Equipment Standard (ASME-BPE) / ASME B31.3, DIN, DIN EN and other standards as defined by applicable regulations and compliances.
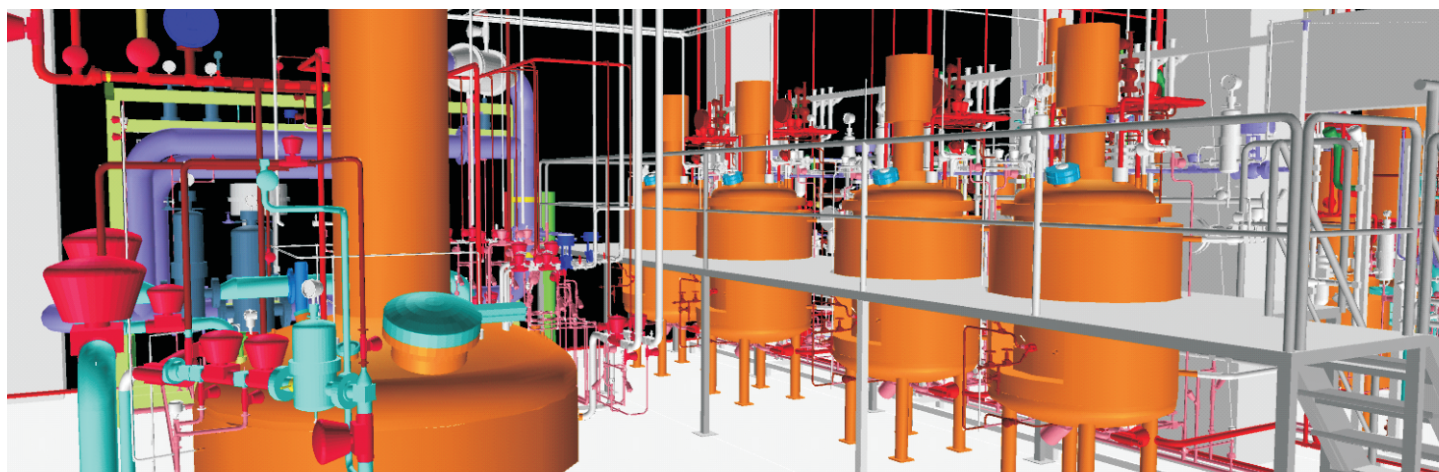
CADISON P&ID Symbol library which is built-in the software has all industry required standard symbols in metric (mm) and imperial i(inch) unit systems.

CADISON P&ID an intelligent tool that can be used as a standalone module or as a fully integrated solution. It is quick to set up, easy to use and highly productive. It supports individual company symbols & workflows too.

CADISON 3D Designer is an excellent tool for 3D designing of piping design models with auto routing features, which allows both the designer and all stakeholders to assess the designs with all information tagged to it. It allows clash checking and also verify the changes & updates been implemented with built-in quality checking tool to identify errors and inconsistencies across the design.
One of the key things of CADISON is that it easily handles huge, complex plant design with ease, and designer can install and use it on a regular system.

CADISON has already been part of many pharmaceutical facilities worldwide, helping the Design Engineers and Project Managers to ease up their daily work.

CADISON MATPIPE is a central repository of Standard Catalogs and Manufacturer and vendor catalog data of all type of objects used in Plant design.
Users can easily manage and assign the desired pipe specifications, pipe class and vendor catalogs for use in the integral plant design process in P&ID and 3D Designs. The object information defined in catalog can also be called in BOM / MTO reports for purchasing and integrating them with ERP tools like SAP, Movex, Infor and others for dynamic data exchange using ERP Interface.

Reasons to move to CADISON – An integrated and configurable plant engineering solution with in-built tools and standard catalogs/symbols specific to the Pharmaceutical Industry. It has been designed with a futuristic approach with design flexibility that helps all scales of pharmaceutical facilities and expansion of plants or process lines becomes easy.

Enhance Project Engineering

- Integrated Design Solution Shortens Time to Market
- Better Engineering Change Management

Reduce costs

- Iintegrated Design Solution Eliminates Unnecessary Costs
- Multi-disciplinary Design and Engineering Collaboration

With **CADISON MATPIPE**, users can easily manage the desired pipe specifications, pipe class and vendor catalogs for use of the integral plant design.

Integration Simplifies Fast-Track-Projects

In Pharmaceutical and Biopharmaceutical industries tight schedule must be adhered to with pressing deadlines. In order to meet complex requirements in less time and without errors, one needs a reliable database and an integrated data system. Thus CADISON is the platform for creating and managing documents (concept creation, development, design, procurement, assembly, plant start-up documentation, commissioning documentation and submission of the document to customers & vendors) which entirely facilitates all aspects of Project Management. The designers save resources, time, cost and improve productivity.
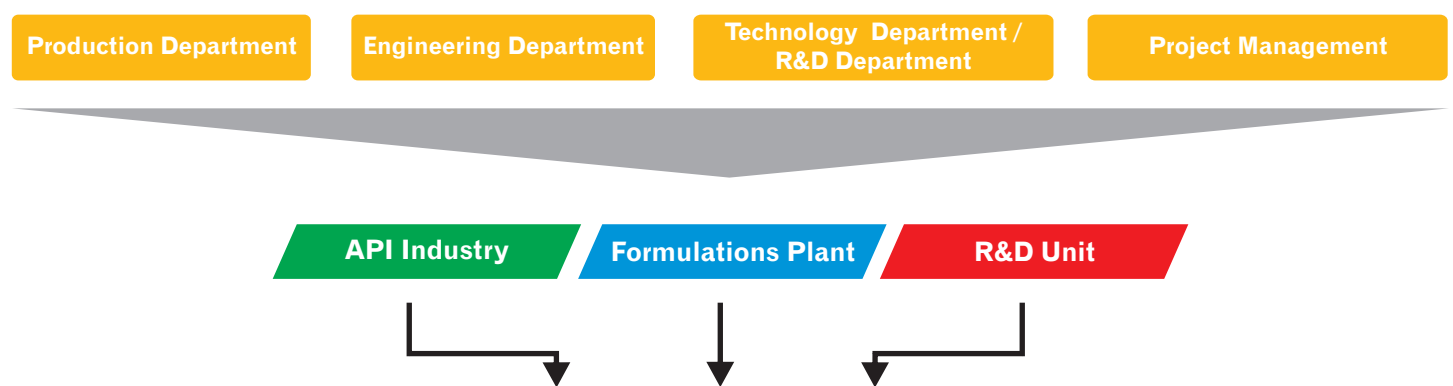
Training

To support our global customers & users, we offer onsite training to gain more further knowledge in CADISON. Alternatively, if preferred by the users, we also offer online training sessions.

CADISON - Your Software partner for value maximization and sustainability!

If you are looking for a cost-effective comprehensive software solution that speeds up the Design & Drafting Process then CADISON is the right choice.
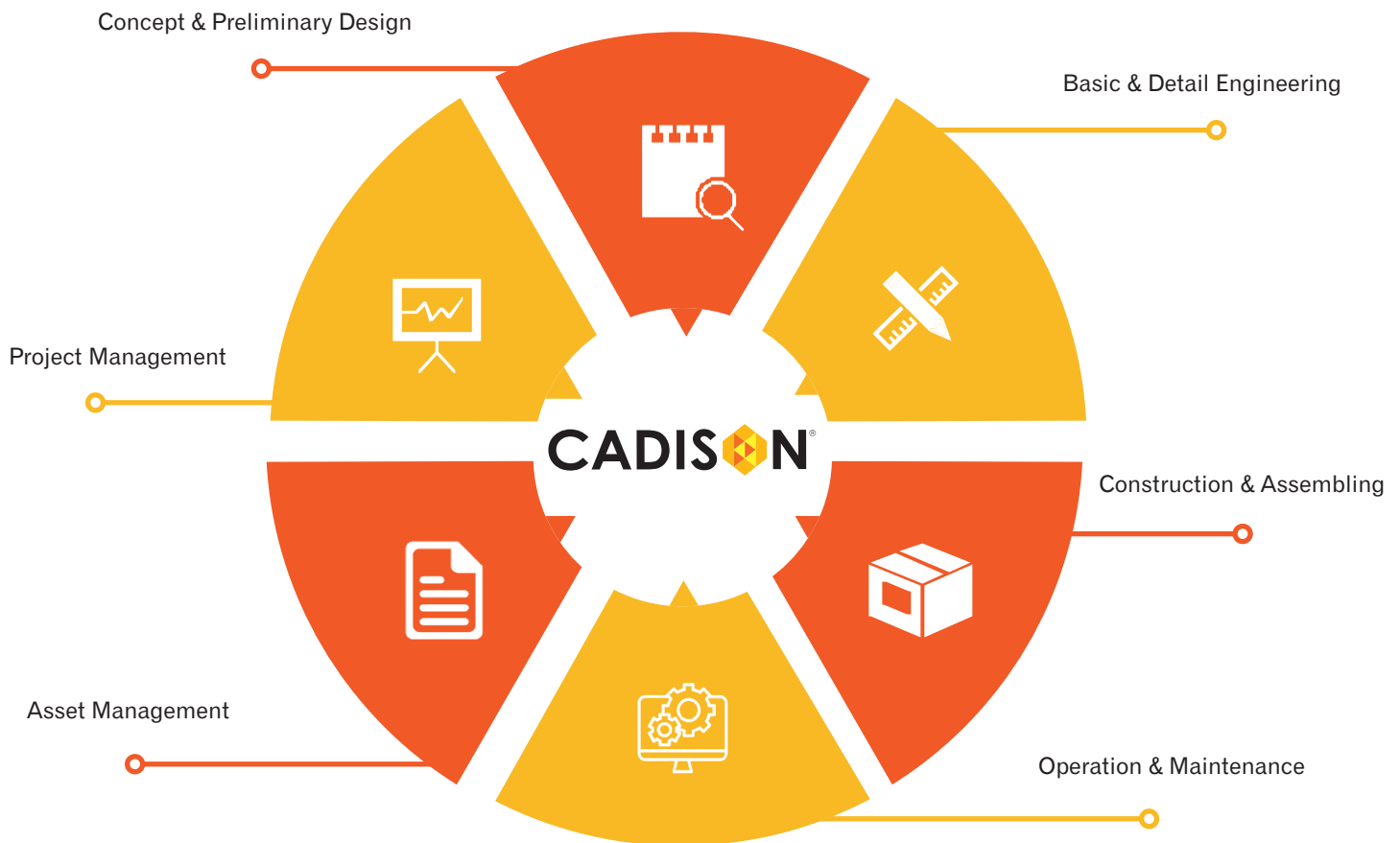
Please do visit our website for more information and details about how existing owner-operators & consultants using CADISON for entire Engineering Workflow in the Pharmaceutical/Life Science Industry.

CADISON – All-In-One Platform for Pharmaceutical Industry

Production Department	Engineering Department	Technology Department / R&D Department	Project Management

API Industry	Formulations Plant	R&D Unit

CADISON enables entire project lifecycle integration of Pharmaceutical Industry

CADISON – Project Lifecycle Integration for Pharmaceutical Industry

Concept & Preliminary Design

Basic & Detail Engineering

Project Management

Construction & Assembling

Asset Management

Operation & Maintenance

CADISON's in-built applications include project set-up,
project document management and cost calculations.

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