

EPLAN

efficient engineering.

EPLAN Processes:

Your Pathway to Digital Engineering.

PROCESSES

PROCESS CONSULTING

ENGINEERING SOFTWARE

IMPLEMENTATION

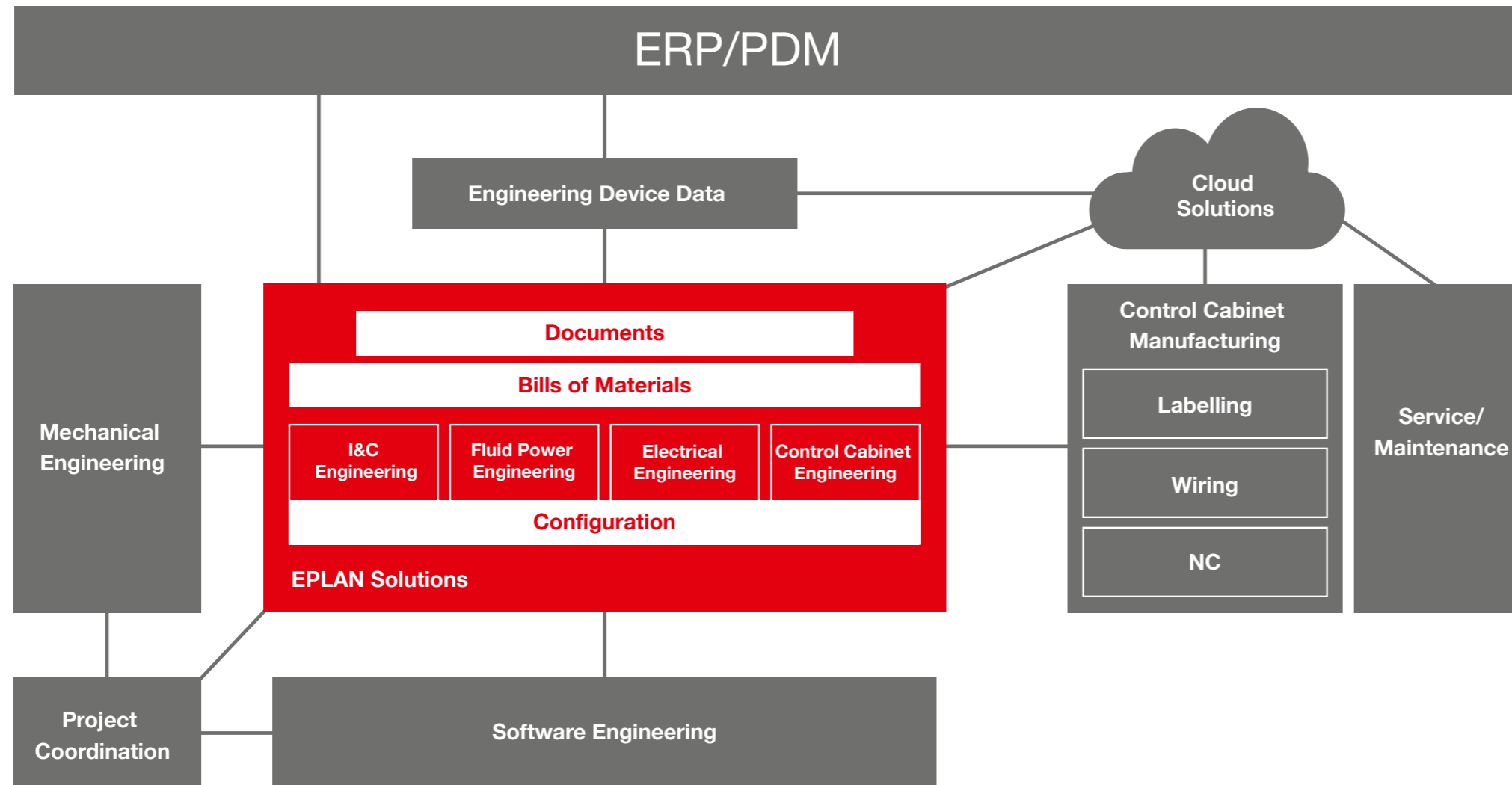
GLOBAL SUPPORT

FRIEDHELM LOH GROUP



Are you exploiting the full potential?

The EPLAN Process at a Glance



The Process Depends on the Structure

When it comes to your tasks in design, engineering and manufacturing, the right specialised systems are one thing. But what about the connections between the systems? And the Single Source of Truth?

From Engineering to Manufacturing

Because one thing is clear: the process is where the greatest potential lies hidden. The smooth interaction of all systems – from engineering to manufacturing – is the key to more creation of value.

Target: Re-Utilisation

What also holds true is that the correct structuring of your projects and templates considerably increases the possibilities for re-utilisation. We support you with this!

Standardised Database for Your Project

A standardised database answers the most important questions right from the project's start: Which components do we need for planning? Which manufacturers offer digital device data?

A well-structured process depends on the proper connections.

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Structure Brings Digitalisation

Structured engineering data ensures re-utilisation, uniform standards and high data availability. In short: They build the foundation for your future success. A configuration, for example, can only be implemented with an intelligent data structure in engineering.

But the following applies in engineering even without configuration: with carefully considered product structuring, data from upstream and downstream areas can be used seamlessly right through to production. The data is continuously enhanced throughout, which is what brings a step-by-step increase in your data quality – and your company’s success in the process.

Efficient Project Coordination

A fundamental point for efficient engineering is the seamless cooperation of electrical and mechanical design engineering. With Syngineer, you can synchronise the development of your machines or plants. So you always have an eye on the project’s progress. Not to mention making delivery dates even easier to meet – even when there are last-minute changes.

with the smallest details. Whether it’s macro structuring for subcircuits or a complete machine or plant: well-structured libraries ensure the re-utilisation of your engineering data and higher quality for your documentation. Your process simply becomes better and faster.

Efficient Mechanical Engineering

Are you ready for efficient engineering? Answer the following question: How do you transfer data from the mechanical design to engineering?

Motor components lists and/or power specifications

Excellent! Your processes towards engineering are well organised.

We hand over the information on paper.

This can also be accomplished electronically – there’s need for action here!

Efficient Configuration

Configuration is the supreme discipline in engineering and offers the greatest amount of potential. Configuration starts

EPLAN Solutions

Working with EPLAN means unrestricted communication across all engineering worlds. Standard interfaces to software engineering allow bidirectional data exchange with neighbouring disciplines.

49%

of the average time needed for control cabinet manufacturing is spent on wiring the cabinet.

Source: Study: “Control Cabinet Manufacturing 4.0” by the University of Stuttgart.

Link to the study: discover.eplan.co.uk/control-cabinet-manufacturing-4.0

> “We’re not just talking about digitalisation, together we’re making it happen!”

Haluk Menderes, Managing Director EPLAN



Efficient ERP/PDM

Digitalisation is today’s motto! Our standard interfaces enable bidirectional data exchange between your ERP and PDM systems. This way you save both time and money when transferring bills of materials, for example. Documents such as a complete EPLAN Project can also be transferred to the PDM system. Entering product data manually? This is now a thing of the past.

Efficient Control Cabinet Manufacturing

Optimise all the manufacturing processes in control cabinet and switchgear construction: EPLAN solutions automatically provide a wide range of information for manufacturing – from component labelling to NC production and even wiring.

Your Added Value

- Shorten your throughput times: The delivery date is fixed!
- Work profitably: In series as well as in batch size 1 production.

Efficient Cloud Solutions

The cloud connection allows you to access EPLAN Projects and valuable manufacturer data securely, from any location and at any time of the day.

Your Added Value

- All project participants work with up to date data.
- It’s easy to include your partners and suppliers in the project.
- Service and maintenance are well equipped if there are issues.

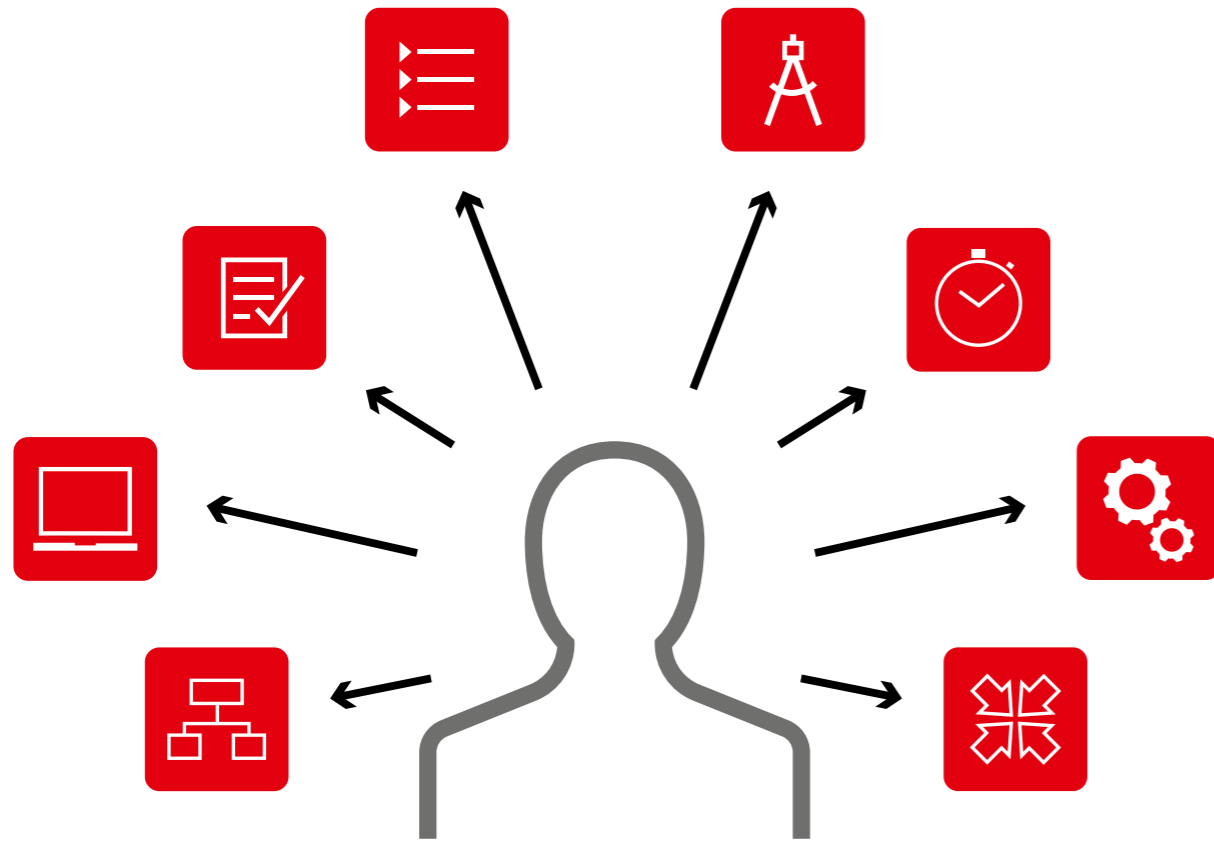
The intelligent structuring of your processes and data secures your future. We support you in determining the potential.

Talk to us – we’re here for you!

Step by Step to More Efficiency

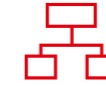
EPLAN Experience is a concept that provides you with specific recommendations for action for process optimisation. It shows you how you can work in a functionally structured way and follow common standards. And shows you step by step how to use this solid data foundation to increase your efficiency in engineering.

The focus is on eight fields of action. This can be a specific subject area in your company, or a process that shows the potential for optimised engineering. Everything can be implemented, but it doesn't have to be. The concept has an open design: your tasks and assignments determine the need for action – regardless of company size, location or industry.



Using EPLAN Experience as a basis, we bring you through various fields of action: from optimal integration into your IT landscape through to comprehensive process integration.

IT Infrastructure



The IT Infrastructure field of action deals with the complete integration of EPLAN software into your company's IT environment. This ensures an extremely high-performance IT infrastructure with a clear and dependable installation and updating process.

Design Methods



The Design Methods field of action provides your design engineering teams with the most efficient methods for completing their engineering assignments. This reduces the effort and time needed for project planning.

Platform Setup



The Platform Setup field of action readies your engineering with application-specific program configuration. The goal: creating the ideal working environment. Furthermore, your teams are supported in the optimal definition and implementation of your platform settings.

Workflow



The Workflow field of action enables a step-by-step evaluation and automation of engineering processes. Using scripting or API, your electrical engineering design can accelerate the engineering process while simultaneously ensuring data consistency.

Codes & Standards



The Codes & Standards field of action supports you with guidelines for the optimal creation and use of your device data as well as master data. This enables you to apply and comply with international codes and standards for documentation and manufacturing – for instance IEC 81346 or NFPA/JIC.

Process Integration



The Process Integration field of action supports the integration of engineering data and workflows into your business processes. This potential is exploited by intelligently connecting design engineering to ERP and PDM.

Product Structure



The Product Structure field of action provides you with clearly defined methodology for structuring your machines and systems. It is based on a clear product structure and technology structure, plus understandable product designations.

Project Management



The Project Management field of action helps you achieve the desired maximisation of your productivity in an ideal amount of time. You receive a comprehensive project plan based on standardised implementation processes.

How is my process set up?
Please take some notes here.

EPLAN – efficient engineering.

The Company

Your Strong Partner – Around the World

EPLAN offers engineering software and services in the fields of electrical engineering, automation and mechatronics. We develop one of the world's leading software solutions for machine, plant and control cabinet engineering and construction. EPLAN is also your ideal partner to simplify challenging engineering processes. Standardised and customised ERP and PLM/PDM interfaces guarantee data consistency for your entire value chain.

Working with EPLAN means unlimited communication across all engineering disciplines. Regardless of the size of the company, our customers are able to utilise their expertise more effectively and more efficiently. EPLAN wants to continue growing with you, our customers and partners, and advances integration and automation in engineering under the motto "efficient engineering".

EPLAN was founded in 1984 and is a member of the Friedhelm Loh Group. The family-owned company has 18 production facilities and 80 international subsidiaries worldwide.

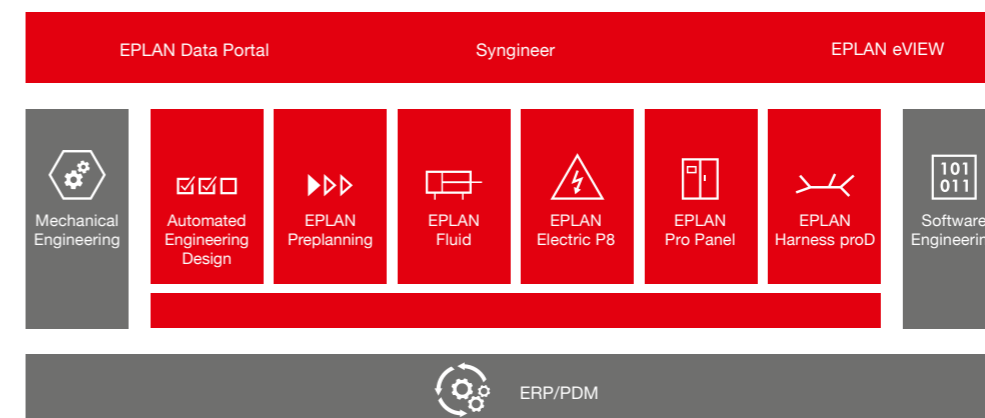
Find out more at:
www.eplan-efficient-engineering.com

Your Tools – EPLAN Solutions

Consistent digital data lays the foundation for efficient engineering. The EPLAN Platform combines EPLAN's solutions and forms the basis for the expert systems that you use to create your projects. This allows you to work on your projects in an interdisciplinary manner and have the optimal solution for every type of application. The EPLAN Solutions also offer you comprehensive methodological support through to automatic schematics creation.

You'll benefit from full compatibility: data from upstream processes can be used seamlessly in your current work steps and enhanced for downstream steps. The connection to the cloud allows you to access EPLAN Projects and valuable manufacturer data securely, anywhere and at any time.

In addition to the connection of individual solutions, EPLAN also offers you an integrated framework for your daily work, while our interfaces enable bidirectional data exchange with ERP and PDM systems. By connecting to mechanical processes, you broaden your opportunities for mechatronic engineering solutions. You can also transfer EPLAN Project data to other software environments and continue working seamlessly with it there.



The EPLAN solutions at a glance: uniform data, integrated approach.

IMPLEMENTATION

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EPLAN

efficient engineering.

- Process Consulting
- Engineering Software
- Implementation
- Global Support

EPLAN Software & Service GmbH & Co. KG
An der alten Ziegelei 2 · 40789 Monheim am Rhein · Germany
Phone +49 (0)2173 3964-0 · Fax +49 (0)2173 3964-25
info@eplan.de · www.eplan-efficient-engineering.com

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