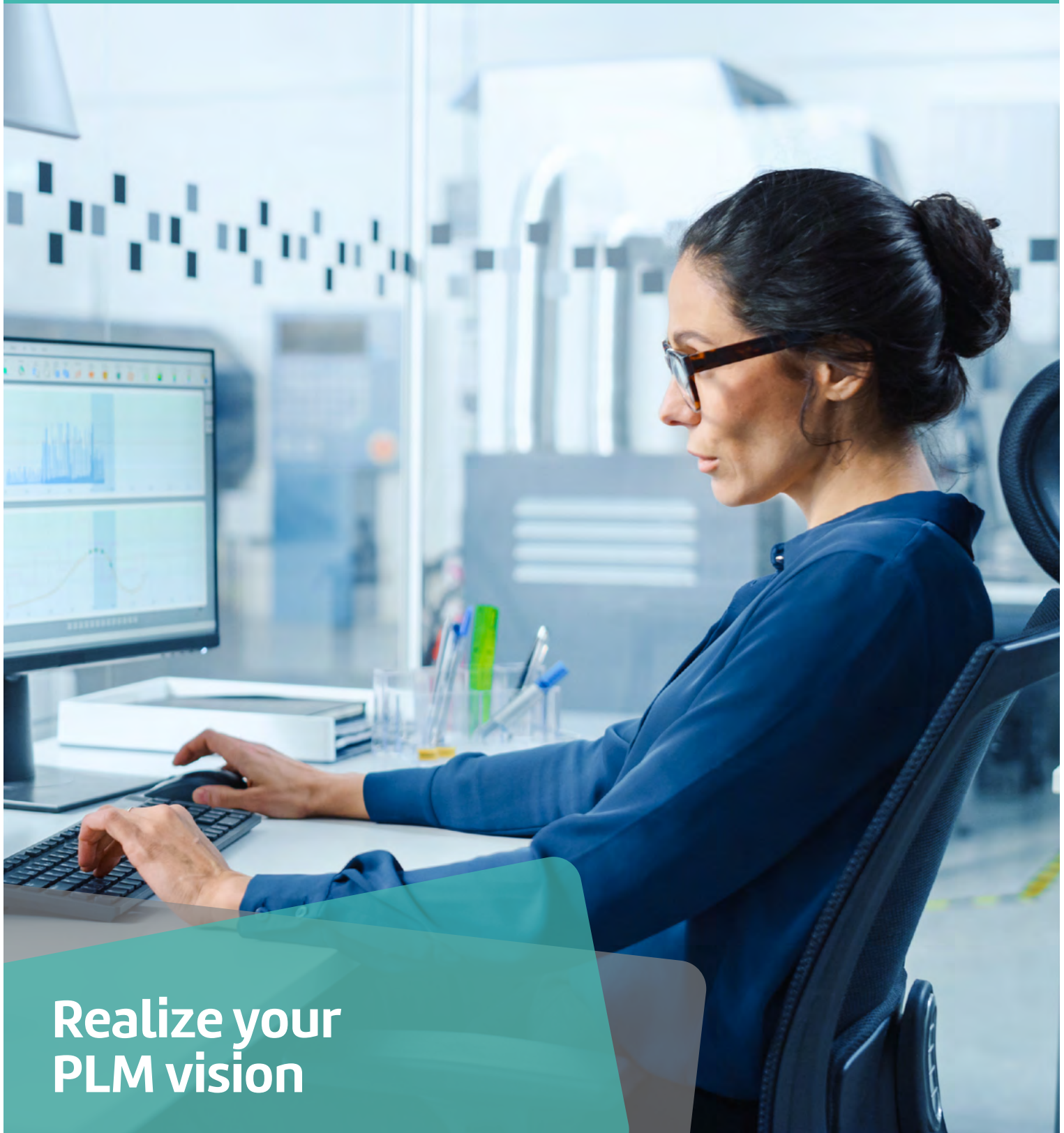# Realize your PLM vision

kgu **PLM** SERVICES

KGU PLM
Services GmbH

We support manufacturing companies in the conception and implementation of digital solutions to optimize their product development and product change processes.

In addition, we implement the PLM vision of our customers based on Teamcenter to manage all relevant product as well as production data and integrate the solution into SAP ERP for end-to-end, digital process support.

Furthermore, we develop solutions for creating and using product configurations based on SAP and Teamcenter for an optimal CTO process.

Content

Blueprint &
Project planning

PLM blueprint creation

In the blueprint, we describe a company's key product development and change processes, identify system use cases for a PLM solution to support business activities and document stakeholder requirements.

The result is a professional requirement specification for tendering a PLM solution. In addition, further content is listed to aid better understanding of the requirements, for example, a description of the company and the drivers or reasons for the project. Finally, the content (scope) and the framework conditions for a PLM project are defined and goals that have to be achieved for successful implementation are formulated.

But we also help with developing requirements (requirements engineering) as part of ongoing projects or as part of maintaining existing solutions. We have many years of experience in methodically approaching requirement analysis and documentation.

Project planning and management

We create a project plan with our customers based on the target specification agreed with the supplier, which defines the content, the process model, the responsibilities, the schedule and the framework conditions. Depending on the project, content like project management, solution development, data migration, infrastructure, verification, training, organisational change management and the roll-out must be planned.

We also support the methodical execution and control of a project according to the project plan and the use of tools and systems that support the project. These are tasks such as task or deliverable assignment and follow-up, risk management and problem and change management. We also support requirements management from recording to approval, where the development of new requirements (requirements engineering) is an independent task.

We have many years of experience in the application of static, iterative and agile process models. We are happy to support you in the planning, management and correction of your project. Based on certain success factors, we analyse ongoing projects and give specific suggestions for improving the project situation.

Solution development

Solution development for Teamcenter®

We have specialised in developing software solutions in Teamcenter® since the mid-90s. Based on stakeholder requirements, we develop proposed solutions (specifications) and then technically implement them. Over the years, we have been able to get to know many companies from different sectors and include and implement requirements from the most diverse areas of activity.

Together with our customers, we look at the standard functionality of Teamcenter® and optional modules based on requirements and make decisions about solution realisation. This involves requirements from areas such as CAD management, component and parts list management (e.g. EBOM, MBOM, SBOM), document management, machine data administration, data classification, data exchange with customers and suppliers and change management.

We implement solutions both for Teamcenter® Rich Client and for ActiveWorkspace. As an example, these are implemented via configuration, where adjustments are made to the data model, or via the workflow designer, which is used to create workflows (defined work processes). If required, we also develop customer-specific extensions (customisations) for both the Teamcenter® server and its client. The development of independent apps for Teamcenter® is also part of our range of services.

Solution development for variant configuration

The topic of variant configuration has been something that's come up in many of our projects ever since the company started. This involves the individual compilation of product properties for a product type within a specific scope. The configuration of a car by a user in the web shop is an example of this. We help companies to select and implement product/sales configurators to optimise their CTO/CTO+ process.

As part of a configure-to-order process (CTO), we specifically develop solutions for the SAP ERP system using the standard functionality for variant configuration (IPC, CPQ and SSC). But we also integrate solutions from other providers, like Plan Software GmbH based in Saarbrücken.

As part of a CTO-Plus process (CTO+), i.e. involving engineer-to-order (ETO), we develop solutions for Teamcenter® based on the Teamcenter® product configurator.

We help companies to define product properties, develop a set of rules and procure additional product data required to use a product/sales configurator. We also help with process optimisation, where systems but also roles in the company have to take on corresponding tasks. The integration of systems (PLM, ERP, configurator) is also part of our range of services. In some cases, several configurators are used to adequately support processes.

Integration & Implementation

SAP/ERP integration for Teamcenter®

Another important service area for us is the integration of Teamcenter® into ERP for the bidirectional exchange of material data, parts lists and documents, for example. For technical implementation, we use standard interfaces (T4S, T4EA, T4ST) from Siemens Digital Industries Software. We have many years of experience with integrating Teamcenter® into ERP systems, especially into SAP ERP.

We analyse the Teamcenter® (PLM) and ERP system data models in workshops and describe the required data exchange. We then configure the interface based on the requirements determined. We coordinate necessary adjustments to the PLM and ERP system with the relevant integration partners. If required, we also help in planning and setting up the infrastructure needed for the interface.

Infrastructure planning and implementation for Teamcenter®

The Teamcenter® system has optional system components and is scalable in terms of how resources are used to be able to meet companies' different needs. Different software components, for example, operating systems and database systems, can also be used. The flexibility makes the system more complex. As such, we help companies to plan their IT infrastructure and install their Teamcenter environments to achieve the best balance between the use of resources and system performance.

We analyse the needs at our customers' various locations, as well as the available resources. We then create an infrastructure plan which shows and defines the necessary IT systems (e.g. servers) at the respective locations, depending on the system environment (e.g. test and productive system). Resource needs are then described for the individual IT systems.

We also support our customers when it comes to setting up their Teamcenter® system environments, both in their own internal IT infrastructure and in external cloud systems. In addition to the installation work, we also offer our customers training for their IT team who will be looking after the Teamcenter® systems.

About KGU

We help manufacturing companies to realise their PLM vision to manage all relevant product and production data and integrate it into ERP and MES for consistent and digital process support.

In over 20 years, we have been able to get to know many companies from different sectors and include and implement requirements from the most diverse areas of activity. As such, our experienced team covers a wide range of services that are needed for successfully introducing PLM.

We have been implementing PLM solutions based on Teamcenter®, a PLM system from Siemens Digital Industries Software since our company history began.

For questions or concrete interest please contact us directly at:

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