



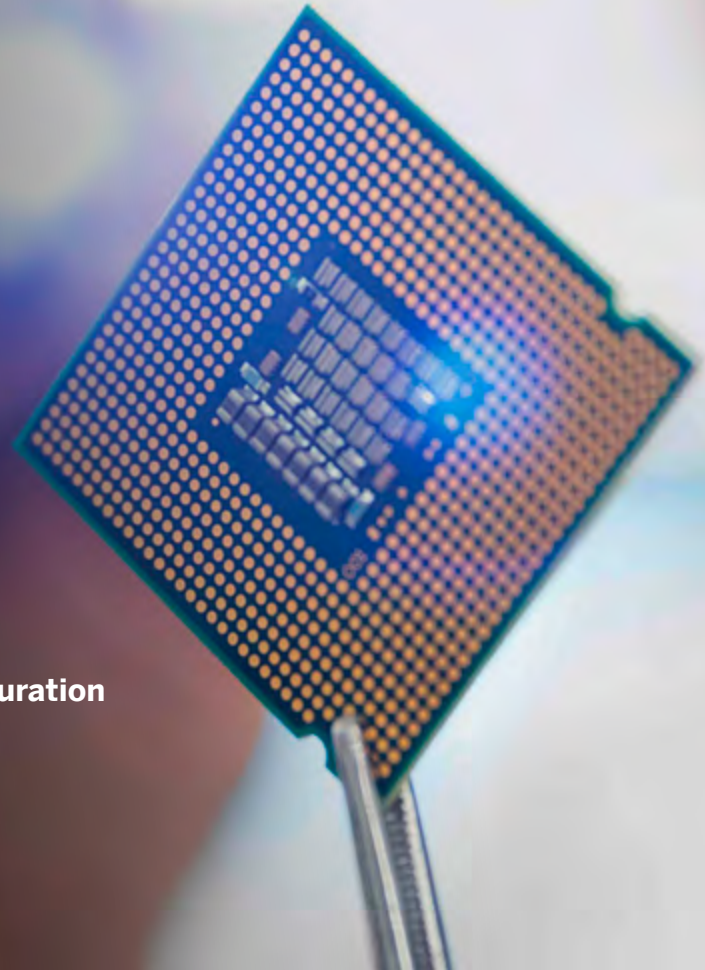
# R&D/Engineering Compendium

THE BEST RUN 



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**Dear Reader,**

Welcome to the reference e-book of the SAP for R&D/Engineering solution portfolio. This e-book offers a compendium of value collateral spanning from customer success stories and business transformation studies to solution videos, brochures, and press articles.

Our intention with this e-book is to create a single digital experience for our readers. We trust it will inspire you and your team to see how SAP® solutions are helping make the lives of experts in R&D and engineering easier so they can focus on creativity.

With this compendium, we also showcase the power of SAP teams working together with customers and partners – developing customer value in global deployments.

We hope you gain a fresh sense of enthusiasm from this e-book, which is regularly updated. More than ever, we are passionate about our mission to make adopting innovation an empowering experience for our customers. We look forward to our continued collaboration and to receiving your valuable feedback and suggestions.

Best regards,

**Thomas Ohnemus**

VP Marketing, SAP Digital Supply Chain, SAP SE





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# Connect Digitally to Perfect Reality and Digitalize Development of Innovative Products

Be first to market without sacrificing quality with research and development, engineering, and product lifecycle management (PLM) software from SAP. Improve processes – from product design to stewardship – and harness technologies such as the Internet of Things (IoT) and advanced analytics.

[Learn more](#)





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# Intelligent R&D and Engineering with SAP Solutions

Discover how to drive business value with new innovations from SAP S/4HANA®, intelligent suite applications, and intelligent technologies for use in the R&D/ engineering line of business.

[Read the paper](#)



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# New Innovations Enabled by the SAP S/4HANA R&D/Engineering Solution

Intelligent enterprises across all industries are focused on business outcomes and innovation by using an intelligent suite of applications, intelligent technologies, and digital platforms. Discover how SAP S/4HANA and other R&D and engineering solutions from SAP can help your business turn digital innovation into a competitive advantage.



**Smart product development**



**Personalized products**



**Intelligent project management**



**Efficient design collaboration**



**Model-based enterprise**



**Product cost control across the lifecycle**



**Embedded compliance**



**Insight-driven design**





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# Connect Digitally to Perfect Reality for R&D/Engineering – Discrete Industries



Customer experience

## Customer centricity

### Center everything you do on your customers:

Enable individualization across multiple domains and support expansion into new business models by capturing requirements, enabling collaboration, and configuring solutions.

## Total visibility

### Create a mirror of your product's digital thread:

Define and follow your digital twin along its entire lifecycle by using an embedded, visual, collaborative, and real-time set of next-generation processes and capabilities.

## Business innovation

### Refine and reinvent simultaneously:

Employ model-based systems engineering strategies to enable new-product development to deliver smart products and services by designing flexibility into your solutions and processes.

Product experience



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# Connect Digitally to Perfect Reality for R&D – Process Industries



Customer experience

Product experience

## Customer centricity

### Center everything you do on your customers:

Enable individualization across multiple domains and support expansion into new business models by capturing requirements, enabling collaboration, and configuring solutions.

## Total visibility

### Make intelligent decisions:

Meet market needs, ensure compliance, and reduce cost with digital product development that enables a single source of truth and provides data insights and analysis.

## Business innovation

### Shorten innovation cycles:

Deliver innovative and compliant products faster with integrated digital formulation that accelerates product development processes and ensures seamless handover to manufacturing.





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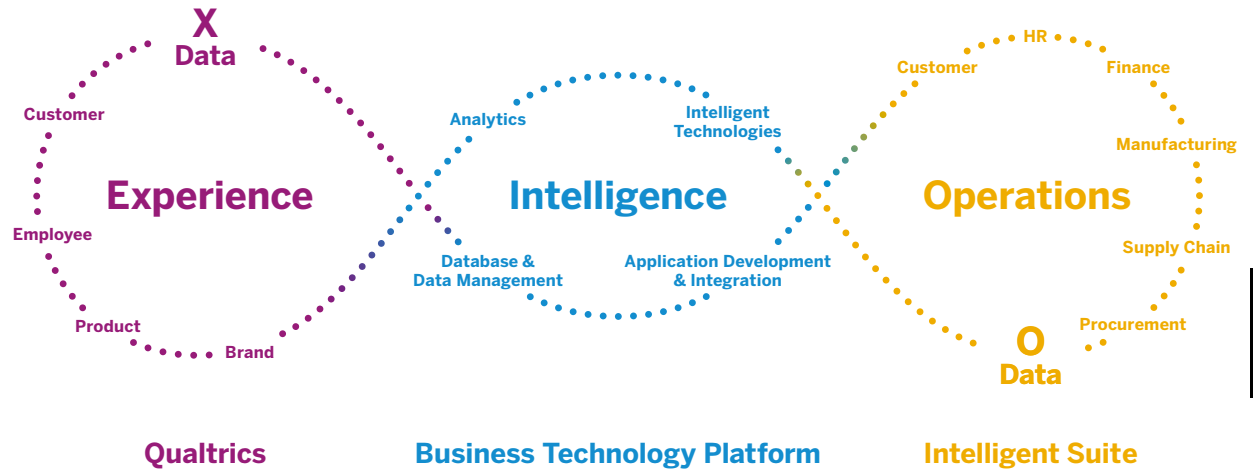
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# SAP Intelligent Enterprise Framework





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# Digital Twin for Business

## SAP General Brochure

### A Business-Outcome-Driven Approach to Digital Transformation

The notion of digital twins is taking center stage in defining the live, digital depiction of connected physical assets. While the idea dates back over a decade, the rapid spread of industrial IoT now enables scalable and cost-efficient implementation of digital twins while capturing petabytes of live data. Here is our vision for the network of digital twins and the relationship to business outcomes.

[Read the brochure](#)

Automation machine

Part No.38 - 80%

Part No.28 - 90%

Part No.41 - 93%

Part No.14 - 89%

Part No.53 - 31%





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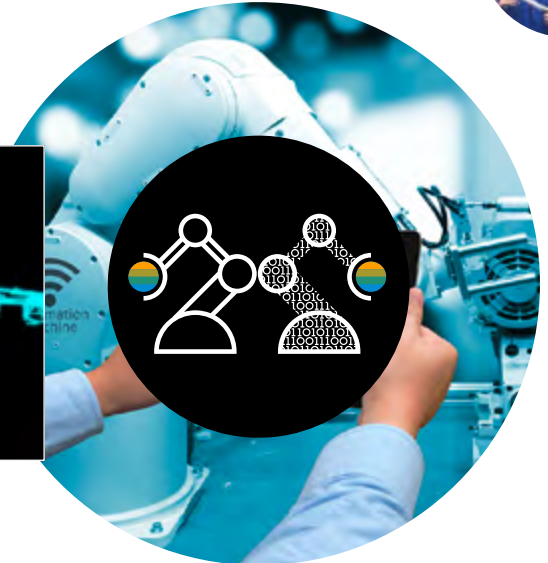
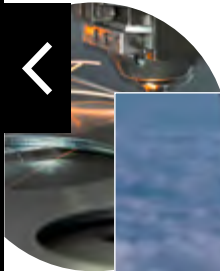
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# SAP's View of the **Digital Twins**

Find out how SAP supports digital twins from idea to manufacturing to service and back in the innovation cycle. See how you can build and integrate your digital-twins network with the SAP Intelligent Product Design solution and SAP Asset Intelligence Network.





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# Digital Twin: Revolutionizing R&D and Enabling Next-Generation Value Chains

## Digitalist Magazine Article

Companies have been digitalizing products, processes, and equipment for a long time. The concept of a digital replica (or twin) of a physical object has been around in product engineering for decades. It has helped engineers visualize their designs in 3D as well as perform tests and simulations in a virtual environment before any component is procured or manufactured. With the advance and convergence of multiple technologies, the digital twin of a product or an asset is poised to enter a new era, expanding from engineering to manufacturing, supply chain, logistics, continuous operations at the client's site, and decommissioning and disposal.

[Read the article](#)



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# Achieve Nearly Seamless Process Integration in Mechatronic Design

## SAP Product Lifecycle Management

Properly connect the workstreams of mechanical engineers, electronic engineers, and software developers in the mechatronic design process.

Use the SAP Product Lifecycle Management (SAP PLM) application to synchronize the data and create one bill of materials – enabling cross-disciplinary cooperation across the entire supply chain.







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## DEUTZ AG

### SAP Business Transformation Study

Learn how leading engine manufacturer DEUTZ optimized its product lifecycle management processes with SAP solutions to improve data accuracy and quality and eliminate process inefficiencies.

[Read the BTS](#)



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“With SAP Engineering Control Center and SAP PLM, we’re now able to **generate, manage, and provide consistent, high-quality data** across our entire product development process.”

Julien Bockhold, PLM In-House Consultant,  
DEUTZ AG





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## Döhler GmbH

### SAP Business Transformation Study

Read how Döhler uses the SAP Recipe Development application to get innovative food products to market more quickly, working with one global development system for research and development.

[Read the BTS](#)







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“The major goal of implementing **SAP Recipe Development** was to run a product development system that is both standardized and flexible as much as possible.”

Dr. Manuel Renz, Team Leader Business Solutions, Döhler GmbH





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## Enable Injections, Inc. SAP Business Transformation Study

Learn how Enable Injections implemented a comprehensive enterprise IT system to streamline processes and simplify paper-based tasks, allowing the company to flexibly scale as it grows, access centralized employee data, and enable a consistent and intuitive user experience for its employees.

[Read the BTS](#)



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“SAP is a one-stop shop. The technology is fully integrated and covers our requirements – including what we need for FDA compliance. It’s an investment that shows our pharmaceutical partners and our investors how serious we are about this company.”

Tim Flaherty, Chief Financial Officer and Executive Vice President, Enable Injections, Inc.



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## MAN Energy Solutions SAP Customer Profile

Read how MAN Energy Solutions is using SAP PLM and SAP 3D Visual Enterprise applications to enhance design innovation with digital twins and real-time, 3D visualizations.



[Read the profile](#)





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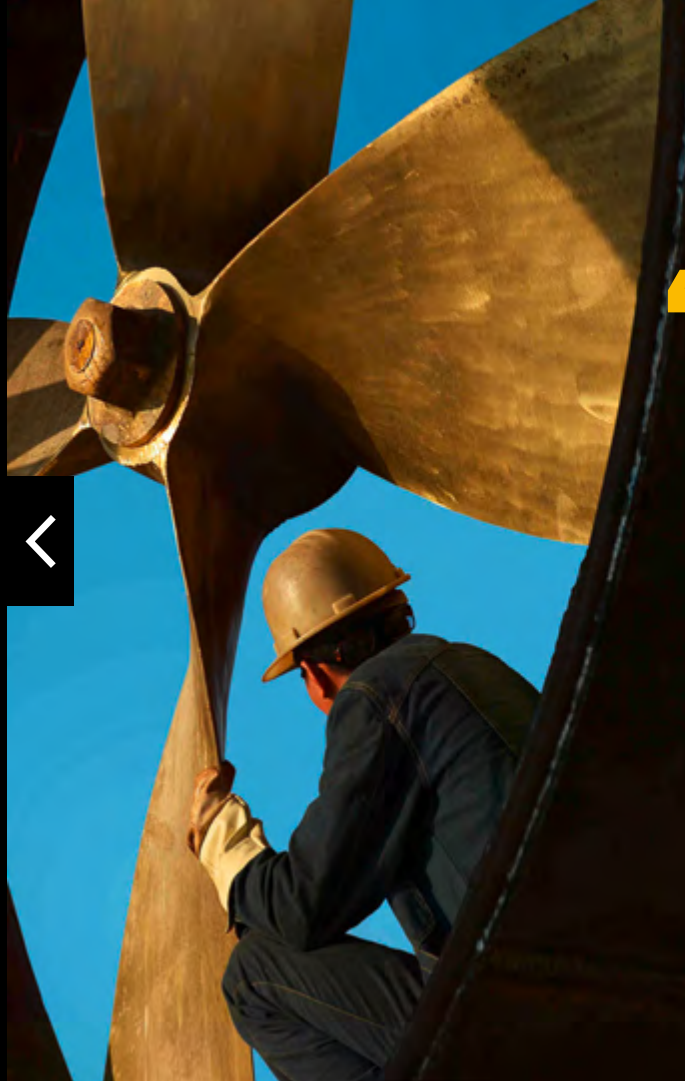
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“SAP PLM enabled us to easily create integrated, digital mock-ups. With that, our efficiency to create product-configured digital mock-ups **increased by 99%.**”

Michael Gschwendtner, Fleet Manager,  
MAN Energy Solutions SE





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## Design to Operate: Innovation Starts with Design

### Digitalist Magazine Article



This blog kicks off a five-part series on the design-to-operate (D2O) lifecycle. Each blog will take up one phase of the lifecycle, spanning design, planning, manufacturing, delivery, and operations. Our goal is to show how integrating processes and sharing insights across all of these phases can help manufacturers drive efficiencies, reduce costs, and deliver better customer experiences. Our focus here is on the design phase.

[Read the article](#)





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# Data Visibility and Product Lifecycle Management at Sandvik

## SAP Community Blog

Sandvik is a market-leading manufacturer of tools and tooling systems for advanced metal cutting. Based out of Sweden, the company serves customers all over the world in the industrial engineering and mining industries.

[Read the blog](#)



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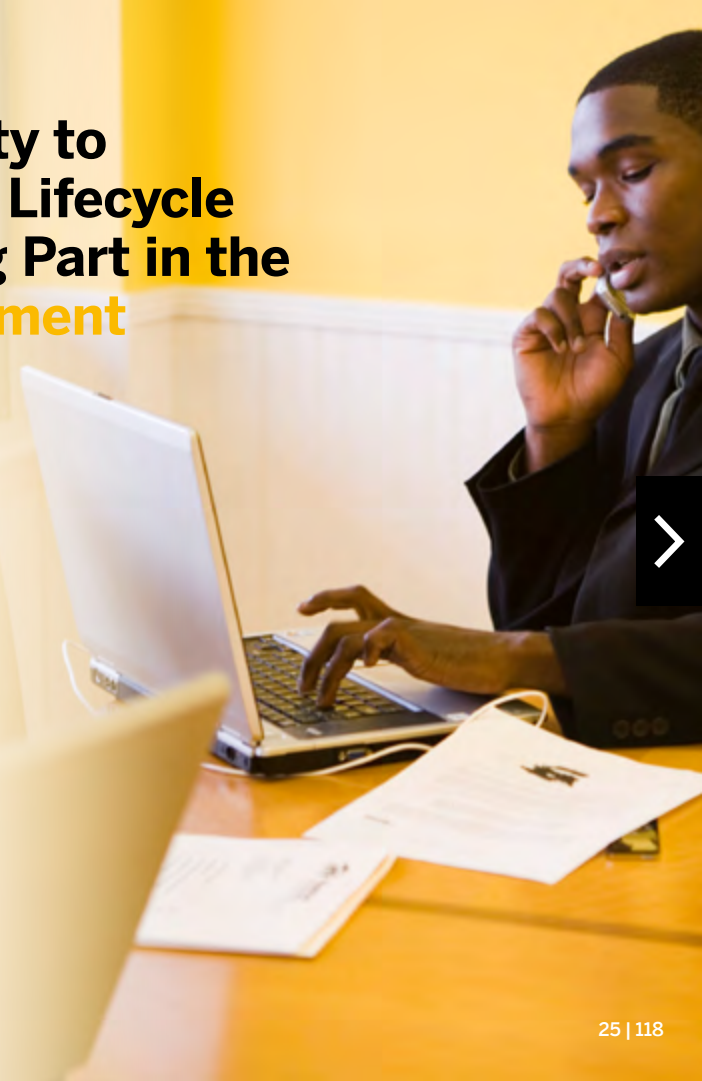
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# This Is Your Opportunity to Influence SAP Product Lifecycle Management by Taking Part in the **SAP Customer Engagement Initiative Program** **SAP Community Blog**

An exciting opportunity to influence SAP has begun with the first cycle of the 2019 SAP Customer Engagement Initiative program. The program gives you early insights into new SAP product developments.

[Read the blog](#)





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# How to Get Going with **PLM, EHS, and Enterprise User Experience** with Linx-AS

## SAP Community Blog

The focus of Linx-AS LLC is product lifecycle management; environment, health, and safety (EHS); and the enterprise user experience for both process and discrete manufacturing. Industry areas range from chemicals and life sciences to consumer goods and industrial machinery and components.

[Read the blog](#)





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# SAP Portfolio and Project Management





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# SAP Portfolio and Project Management

Develop new products and services profitably by optimizing resources and speeding time to market. Tap into flexible support for your enterprise portfolio and project management processes, and integrate financial and logistics information seamlessly.

- Cloud, on-premise, and hybrid deployment
- Identification of project anomalies and risks
- Project performance reporting based on live data
- Lower total cost of ownership through preconfigured integration



[Learn more](#)



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## Key Benefits

### One central project repository

- Gain real-time insights into project progress and cost performance across locations
- Understand financial demand and capacity across the organization

### Strategic portfolio alignment

- Prioritize projects according to corporate strategies and business goals
- Free up financial and human resources to help ensure successful project execution

### Integration across processes

- Tie project management to financial and logistics processes at no additional cost
- Create project reports for stakeholders and decision-makers with less effort





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# Key Capabilities



## Comprehensive portfolio management

Submit project proposals, prioritize them with the current project portfolio, and monitor and review their progress

## Project management

Manage projects, tasks, and timelines while identifying critical paths, assigning resources, and tracking progress

## Resource management and optimization

Optimize resource use by finding the right resources, check availability, and avoid project bottlenecks





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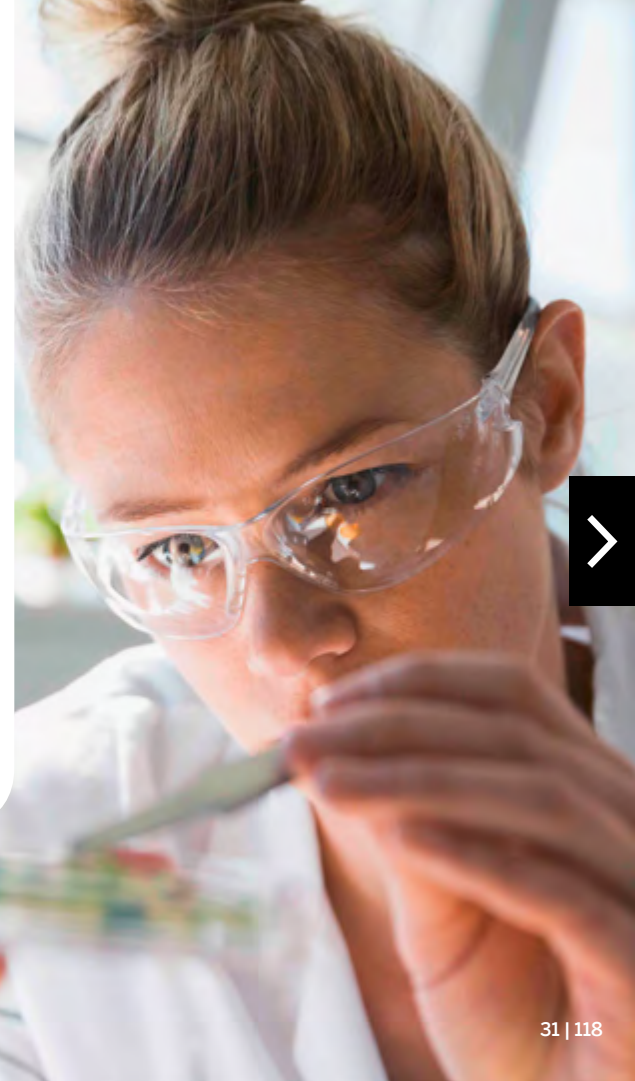
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## Biotest AG

### SAP Customer Profile

Learn quickly how this German pharmaceuticals company gained the ability to manage multiple projects ad hoc, efficiently, and cost-effectively with SAP Portfolio and Project Management. See how it now works from a single source of information for project data, which can be easily visualized and analyzed with SAP Analytics solutions.

[Read the profile](#)





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“SAP Portfolio and Project Management provides us with a single source of information for project data, which can be easily visualized and analyzed with SAP Lumira® software. In this manner, I can **quickly give dynamic answers** specific to management requirements.”

Dr. Lisa Mayer, Multiproject Manager, Biotest AG





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## Covestro AG

### SAP Business Transformation Study

Take a moment to review how this German chemicals company gained transparency and real-time insight into project performance by introducing a centralized project repository based on SAP Portfolio and Project Management. Learn how the software helped it optimize resource allocation.

[Read the BTS](#)



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““ With SAP solutions, we have six independent business processes **integrated into one IT tool** helping us maximize quality, effectiveness, and efficiency.”

Ingo Prellwitz, Global Process  
Owner PPM/PS, Covestro AG



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## HELLA GmbH & Co. KGaA

### SAP Business Transformation Study

Discover how SAP Portfolio and Project Management and SAP PLM gave HELLA a single tool that would provide the end-to-end project coverage the company needed to design the best products for its customers.

[Read the BTS](#)







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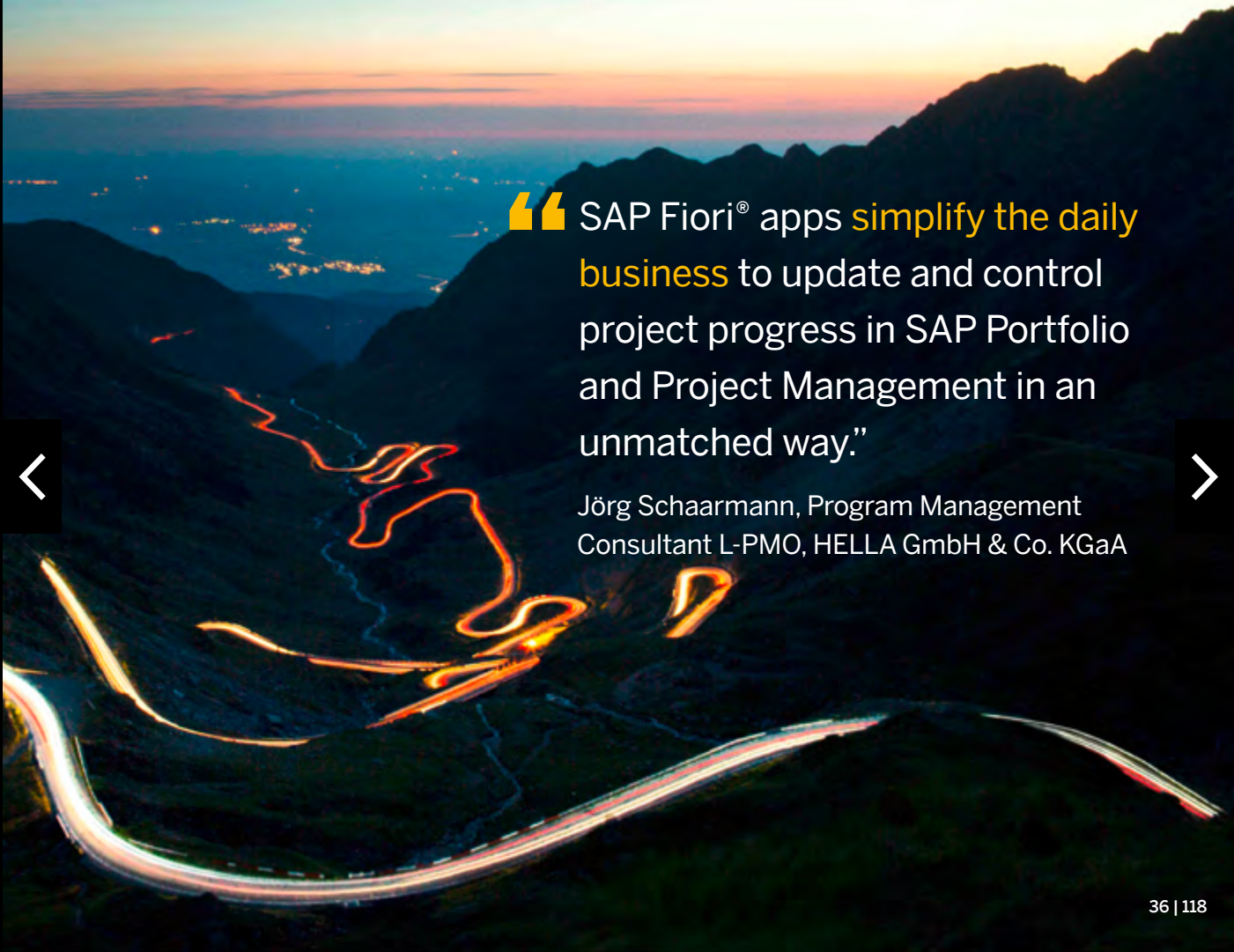
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“SAP Fiori® apps **simplify the daily business** to update and control project progress in SAP Portfolio and Project Management in an unmatched way.”

Jörg Schaarmann, Program Management  
Consultant L-PMO, HELLA GmbH & Co. KGaA



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## LEONI AG

### SAP Business Transformation Study

To make its product innovation process more efficient, the company's wire and cable solutions division made the decision to implement SAP PLM. Besides improving collaboration between its development and sales divisions, this step has reduced the time it takes for LEONI to deliver new products to its customers around the world.

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““ When you look at our ongoing operations, the **added value that comes with an integrated PLM/ERP system** is easy to see. In SAP Digital Business Services [now Customer Success], we also have a skilled partner that’s helping us achieve our global project objectives.”

Gerhard Angermann, Project Lead for SAP Product Lifecycle Management, WCS Division, LEONI AG





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## Wien Energie GmbH

### SAP Business Transformation Study

Find out why a leading Austrian energy company chose SAP Portfolio and Project Management to help it manage its resources efficiently, direct spend to the right projects, and more – all in real time across the whole organization.

[Read the BTS](#)





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“ We knew we needed to focus on results, and do it with the right partner. **All stakeholders benefit from this integrated solution** based on SAP Portfolio and Project Management.”

Marcus Paulus, Head of PMO, Wien Energie GmbH



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# Dashboarding Best Practices for Portfolio and Project Management in the Utilities Industry

## SAP Community Blog

Make use of preconfigured content in the SAP Analytics Cloud solution to get more value out of your SAP Project and Portfolio Management application.



[Read the blog](#)







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# SAP Commercial Project Management





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# SAP Commercial Project Management

**Change the way you manage the project lifecycle to optimize results.**

Help your teams plan, manage, and collaborate on projects, whether they are in the same building or halfway around the world. With the SAP Commercial Project Management application, you can achieve maximum efficiency and quickly adapt to changes to avoid unplanned costs.

- Visibility of project issue and change management
- Integrated project cost and revenue planning
- On-premise and cloud deployment
- Collaborative project workspace

[Learn more](#)





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## Key Benefits



### Increase project profitability

Control projects in real time based on a single version of the truth, and improve win rate for profitable projects with better historic bid and project insight

### Improve employee productivity

Provide highly flexible workspaces, consolidated data access across applications and systems, and a differentiating user experience

### Reduce project risks

Streamline risk, issue, and change request management to reduce the percentage of unapproved changes







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# Key Capabilities



## Shared project workspace

- Access real-time project data using a single point of project visibility and control
- Share the same view of each project with all project members
- Generate project status reports quickly using embedded analytics functionality



## Project cost and revenue planning

- Improve estimating, planning, and forecasting accuracy, and plan for necessary personnel, materials, expenses, and third-party resources
- Unify financials management throughout project lifecycles
- Develop detailed baseline costs and revenue plans

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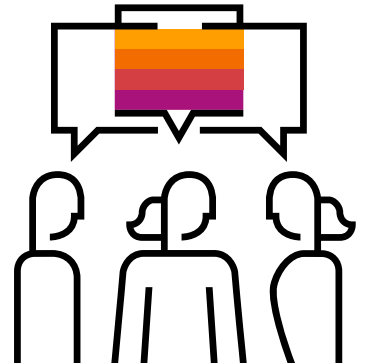
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## Key Capabilities

### Project issue and change management

- Manage and monitor change requests and their financial impact to ensure successful project completion and client satisfaction
- Record and clarify project issues quickly and accurately
- Reduce inefficient manual and spreadsheet-based processes





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# SAP Product Lifecycle Costing







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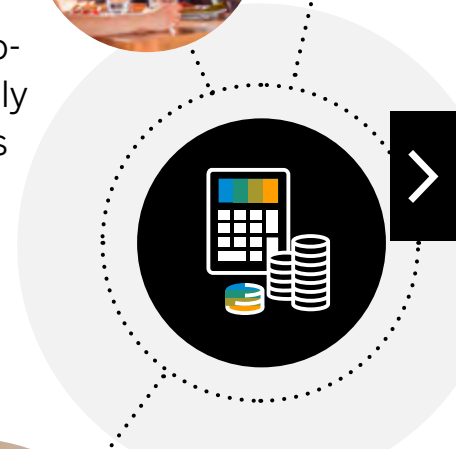


# SAP Product Lifecycle Costing

**Improve profits by managing costs accurately in the early design phase.**

Secure future product margins in the early stages, when the design is evolving and master data is incomplete. With the SAP Product Lifecycle Costing solution, you can gain visibility across teams, proactively manage costs, and support new product innovations and customer-specific engineered products.

- On-premise and cloud deployment
- Flexible user interface to create costing structures and simulations
- Open integration with ERP solutions from SAP or any other costing data source
- Extensibility framework to adjust to customer needs



[Learn more](#)





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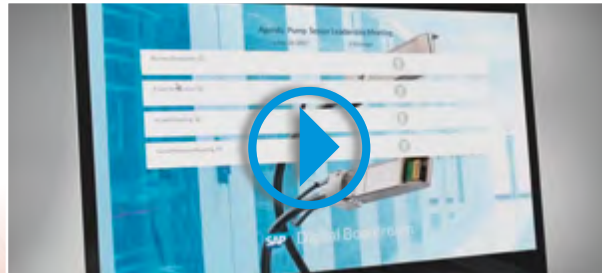
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# SAP Product Lifecycle Costing

## SAP Overview Video

The freedom to work with incomplete information – that's what calculating the cost of new products is all about. The freedom to not know just yet what the best manufacturing plants are and which suppliers and countries to source from. The freedom to adjust prices, routings, or rates as they become clear. The freedom to use data from whatever source. The SAP Product Lifecycle Costing solution gives you all this freedom – and yet enables a quick preliminary cost estimate for the entire product that is as fact based, precise, and reliable as can be at an early stage.





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# SAP Product Lifecycle Costing

## SAP Solution Video

How do you calculate the cost of a new product? Most companies are still using spreadsheets even for cost control in the early engineering phase and beyond. What about integration into your corporate systems? Find out how SAP Product Lifecycle Costing can help you innovate for profitability.







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# Calculate New-Product and Quote Costs with **Greater Speed, Accuracy, and Insight** SAP Solution in Detail

SAP Product Lifecycle Costing supports the calculation of costs for new products or quotations early in the product lifecycle.

Powered by SAP HANA®, the solution can work with massive volumes of data in real time so you can quickly identify cost drivers and easily simulate and compare alternatives.

[Read the solution in detail](#)



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# Boosting Efficiency with **Intelligent Search and Machine Learning**

## SAP Solution Video

SAP Product Lifecycle Costing uses intelligent search and machine learning to get better cost estimates in the early stage of the product lifecycle. More efficient and accurate retrieval of similar items supports quicker and more-precise estimation of costs in the classic costing scenarios. Machine learning optimizes the search parameters while at the same time allows for easy fine-tuning of the search function in SAP Product Lifecycle Costing.





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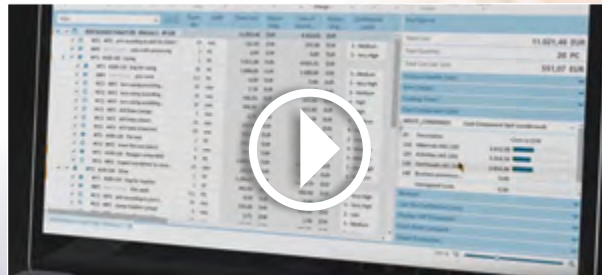
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# SAP Product Lifecycle Costing and **SAP Analytics** SAP Solution Video

Analytics capabilities are a cornerstone of the key capabilities of SAP Product Lifecycle Costing. They are used to analyze, data mine, and compare new cost calculations to get insights into product costs early on. Comparing alternatives while analyzing the data within different projects or versions is important to understand the differences of alternative cost calculations or alternative projects.







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## Key Benefits



### Increase profitability

Use early product engineering, quotations, and lifecycle costing to help increase profitability

### Optimize costs and maximize revenue

Calculate and model various cost scenarios while designs are still evolving and master data is only partially available

### Go to market quickly and cost-effectively

Achieve leaner processes and accelerate research and development by enabling collaboration and reducing expenses





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# Key Capabilities



## Product-cost calculation and simulation

- Support modern, real-time cost calculation using SAP HANA
- Handle calculations flexibly with manual override and recalculation capabilities
- Enable versioning, what-if simulation, and target costing

## Data modeling and extensibility

- Use custom attributes, fields, and formulas
- Access multiple costing sheets and component splits
- Manage local master data maintenance as well as integration with enterprise and Microsoft Excel software



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## Key Capabilities



### Inbound and outbound integration

- Import data from SAP ERP, Microsoft Excel, and other applications using the API
- Export data to Microsoft Excel and other applications using the API

### Pricing

- Use the price selection strategy for components and activities
- Support different currencies and dimensions
- Calculate overhead cost through any number of costing sheets



Continued





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# Key Capabilities

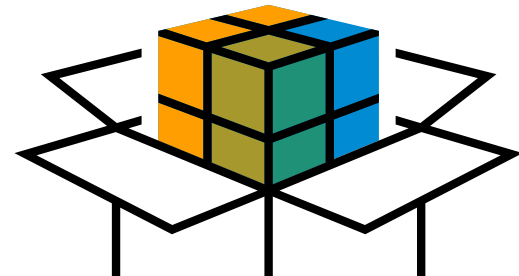


## Analytics and reporting

- Apply management reporting
- Use project analysis and reporting across the product lifecycle, costing categories, and other dimensions
- Access version comparison

## Security and collaboration

- Restrict access
- Deploy traceability
- Enable collaboration tools for users and roles





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## AGCO Corporation

### SAP Business Transformation Study and SAP Customer Video

Hear how AGCO, a global leader in agricultural solutions, supports the world's farmers and those they feed by consistently calculating product-cost estimates with SAP Product Lifecycle Costing.



[Read the BTS](#)



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“ With SAP Product Lifecycle Costing in place, I really believe we have a **best-in-class product-costing solution** that will give us a big advantage going forward.”

Nils Franzen, Director Global Product Costing, AGCO Corporation





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## AGCO Supports African Farmers with Global Thinking and Local Action

### Forbes Article

For folks like Eric Froebel, director of global engineering processes and IT architecture at AGCO Corporation, the crisis of global hunger can be summed up by some straightforward logic. Froebel believes the answer to feeding 9 billion people by the year 2050 could lie in greater innovation throughout the agricultural sector. As he describes it, AGCO's own idea of innovation includes both global thinking and local action.

[Read the article](#)





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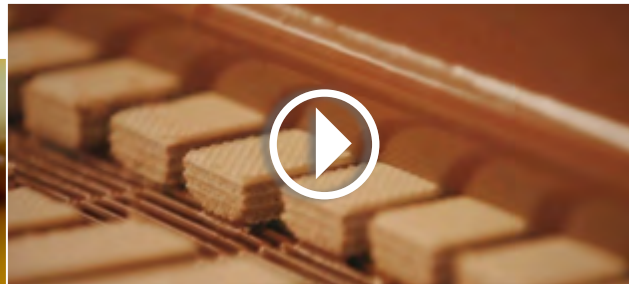
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## Bühler AG

### SAP Business Transformation Study and SAP Customer Video

Bühler, a family-owned Swiss company, is a leading provider of machinery for food production. It also offers die-casting and surface-coating technologies for high-volume application areas such as automotive, optics, and inks. Read how Bühler improves cost accuracy for the quotation process in engineer-to-order scenarios. It worked with the Customer Success organization to deploy SAP Product Lifecycle Costing. Now, it has a single global costing tool to lower financial risk.



Read the BTS



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“Getting fast and accurate costs to our quote system is crucial. With SAP Product Lifecycle Costing, we know our salespeople are getting the **right numbers every time.**”

Markus Suter, Head of Applications Quotation and Project Execution Processes, Bühler AG





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## Daimler AG

### SAP Customer Video

Daimler outlines the key values of how it uses SAP Product Lifecycle Costing to improve its product margin by costing its new products.





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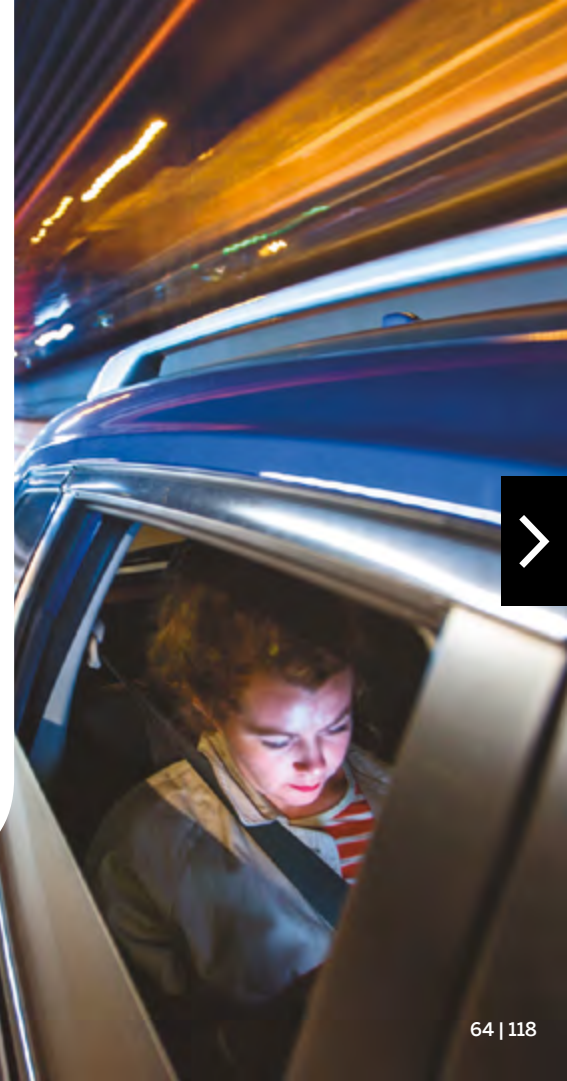
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## Daimler AG

### SAP Business Transformation Study

Daimler AG is the world's largest manufacturer of commercial vehicles and one of the largest manufacturers of premium cars, complementing vehicle production, sales, and maintenance with global financing, leasing, and fleet management. To remain competitive, Daimler must post high results in all its KPIs. Prioritizing revenue growth, subsidiary Mercedes-Benz Cars recently deployed SAP Product Lifecycle Costing to help calculate future product profitability.

[Read the BTS](#)





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# Unlock the Potential of Machine Learning to Get Better Cost Estimates in the Early Stage of the Product Lifecycle

## SAP Community Blog

Although machine learning is not a new concept, it has recently gained fresh momentum and promises high potential to get better cost estimates in the early stage of the product lifecycle and in the quotation stage of unique, complex products.

[Read the blog](#)





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# Quote Costs in Engineer-to-Order Scenarios with **Greater Speed, Accuracy, and Insight**

## SAP Community Blog

For too long now, manufacturers have struggled to get accurate, early, product-cost estimates. And as product complexity increases, the situation continues to get worse. A smarter and simpler approach is needed to keep costs of complex products and quotations in line with market prices and to increase quote-win rates.

[Read the blog](#)





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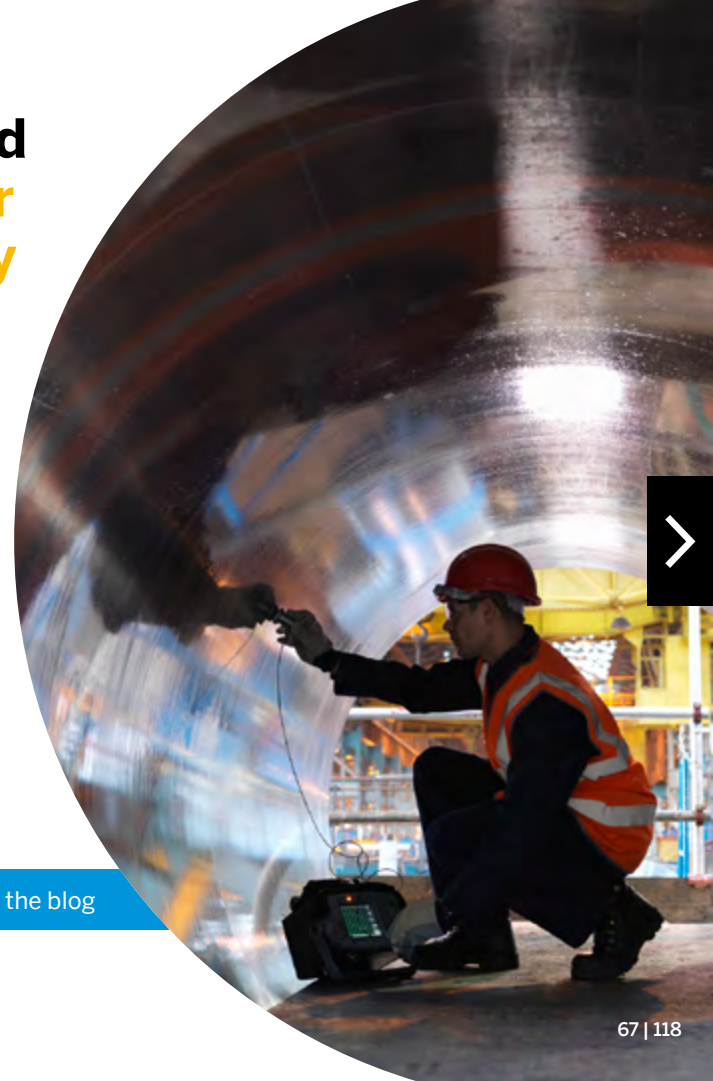


# Design Anywhere, Build Anywhere with **Greater Product-Cost Accuracy and Efficiency**

## SAP Community Blog

Industrial machinery and components industry manufacturers are facing increasing pressure to provide innovative, customer-specific solutions at competitive prices, and the specialization of customer requirements will only continue to grow. Read on and discover how SAP solutions are solving the problem.

[Read the blog](#)





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## SAP Leonardo Goes Native on WAGO PLC

### SAP Community Blog

The WAGO PFC200 Controller is a compact programmable logic controller (PLC) with network and fieldbus interfaces. The controller supports digital, analog, and special I/O modules. It also has a mobile radio module that supports SMS and provides wireless Internet connectivity. It allows developers to do PLC programming per IEC 61131-3 standards.

[Read the blog](#)





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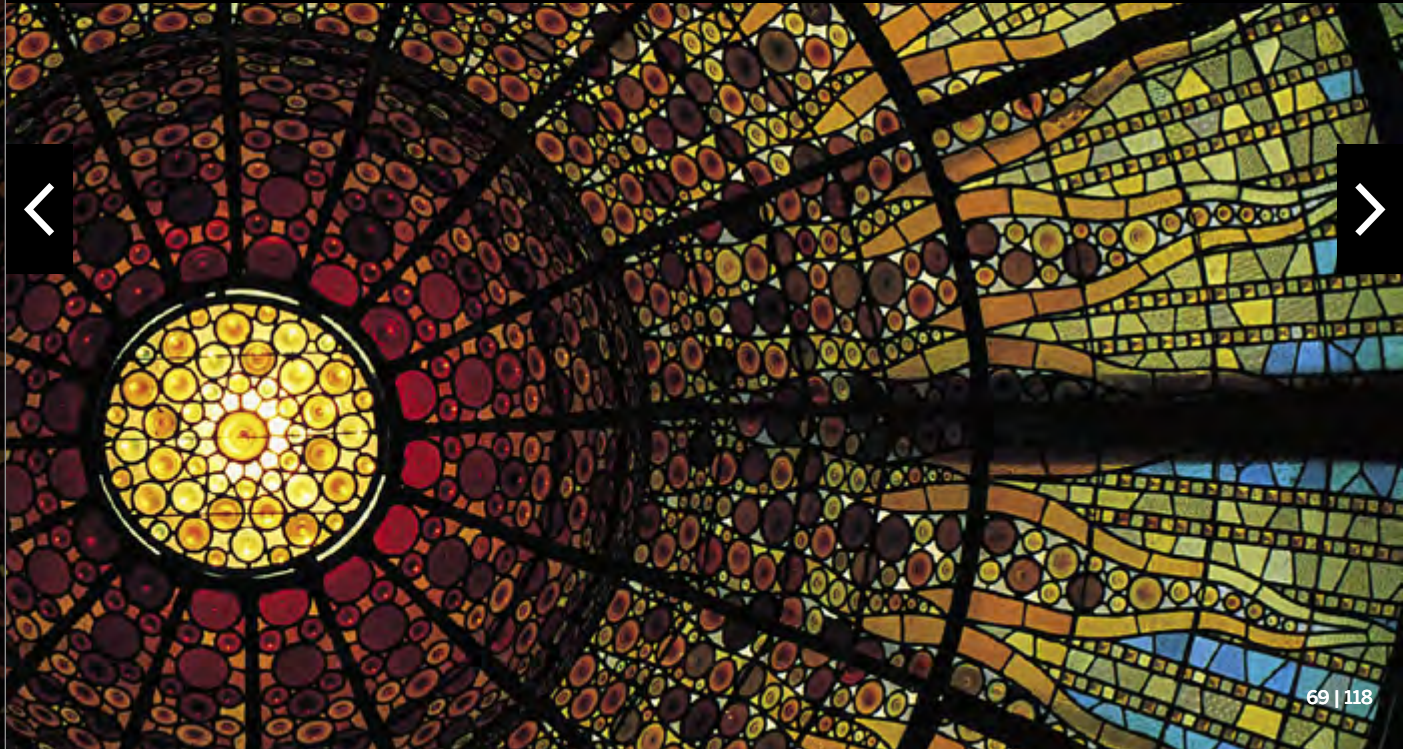
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# SAP Engineering Control Center





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## SAP Engineering Control Center

Combine mechanical, electrical, and electronic design data on a single platform and enable cross-discipline collaboration. You can integrate business data from SAP software with design information from authoring systems for mechanical computer-aided design (MCAD) and electronic computer-aided design (ECAD) software and other simulation tools.

- On-premise deployment
- Comprehensive product descriptions
- Consistent product definition
- Robust version control functionality

[Learn more](#)



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# SAP Engineering Control Center: Connect Engineering to Your Enterprise

## SAP Introduction Video

The SAP Engineering Control Center integration tool allows you to efficiently manage all documents and data from product idea to production and is the central point of access for all the tools you need in product design.







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# SAP Engineering Control Center: Intelligent Engineering for an Intelligent Enterprise

**Delivering a holistic approach for integration and digitalization.**

Today, manufacturers look to create digital twins for their products to follow the entire lifecycle. The digital twin enables manufacturers to offer new services and thereby fully exploit the opportunities of digitalization. But where does the digital twin begin? Is there a point at which manufacturing companies can start?

Start at the beginning. With SAP PLM and SAP Engineering Control Center, you can lay the foundation for the digital product data required to achieve a digital twin, including standard integration of MCAD, ECAD, and Microsoft Office software.

[Read the brochure](#)



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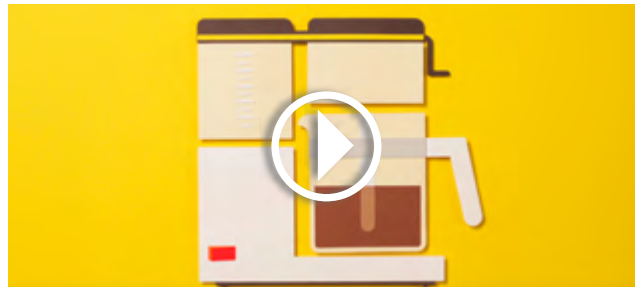
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# SAP Engineering Control Center for Use with SAP Business Suite and SAP S/4HANA DSC Software Image Video

Watch DSC Software's new image film and discover how the intuitive UI of SAP Engineering Control Center allows graphical navigation through SAP software data structures with embedded viewing. See how it integrates various authoring tools such as MCAD, ECAD, and Microsoft Office products easily into SAP software. The control center is SAP's new standard for integrating leading authoring tools – bringing your integrated product development to a new level of efficiency.





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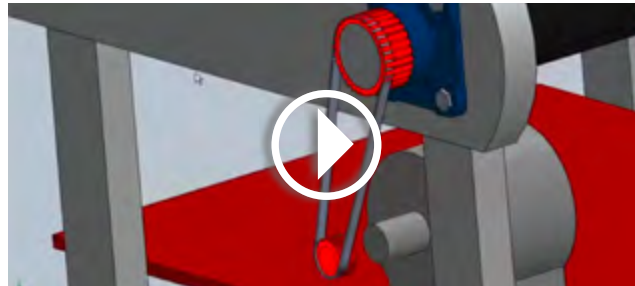
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## Collaborate with Your External Partners Using SAP Engineering Control Center and SAP S/4HANA Cloud for Intelligent Product Design SAP Solution Video

Are you tired of never having consistent product data that is readily available to all team members as well as your extended enterprise working on a single product design? Well, it has never been easier than today with SAP software. Featuring the integration between SAP Engineering Control Center and SAP Intelligent Product Design, collaboration of product design data between partners – whether they happen to be an internal or external workforce – has never been smoother or more accessible.







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## Key Benefits



### **Integrate authoring tools across the value chain**

Access information from across the product development process using a single, integrated platform.

### **Get a 360-degree product view**

Gain a holistic view of all product development information, including data from mechanics, electronics, software, and simulation teams.

### **Improve quality management**

Benefit from embedded quality and sustainability management features in the authoring tool interfaces that help users work more effectively.





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## Key Capabilities



### Intuitive interface for authoring tools

- Get a comprehensive overview of all required SAP information, including access to material master data and bill- of-materials data
- Leverage flexible, user-specific folder structures with drag-and-drop and copy-and-paste functionality
- Use context-sensitive pull-down menus to simplify navigation

### Comprehensive integration features

- Apply robust and proven integration technology for technical authoring systems
- Accommodate different CAD system requirements and data models
- Ensure secure, high-performance file handling

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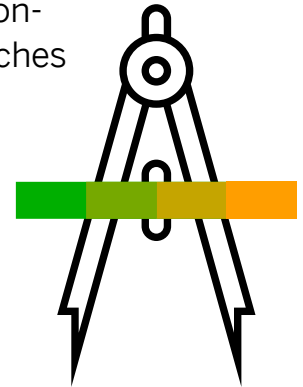
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# Key Capabilities

## Intelligent process support

- Enable comprehensive presentation of all product development information
- Provide a context-based menu structure and user guidance
- Use extensive search capabilities, including classification-based, active-list search and advanced document searches with results displayed as previews or lists







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## Diehl Aviation Laupheim GmbH SAP Business Transformation Study

Discover how this preferred innovation partner of the world's most-renowned aircraft manufacturers rapidly realized its vision of a complete digital twin that connects thousands of innovation workers while eliminating process inefficiencies with a leaner and smaller system landscape that includes SAP Engineering Control Center.

[Read the BTS](#)





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“ We relied 100% on SAP Digital Business Services [now Customer Success] and implementation partner DSC to meet all of our project goals on time and within budget. Our reliance paid off, and all participants pulled together and worked in sync.”

Ralf Haberbosch, CoE Programs Engineering,  
Diehl Aviation



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## Endress + Hauser SAP Customer Reference Slide

Read how professional services company Endress+Hauser enhanced its SAP Engineering Control Center integration tool and existing functions by collaborating with SAP experts and customers through the SAP Continuous Influence program.

[Learn more](#)







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## Georg Fischer AG

### SAP Business Transformation Study

The company worked with CENIT to move from managing its engineering systems locally to centralizing all of its R&D activities through SAP Engineering Control Center.

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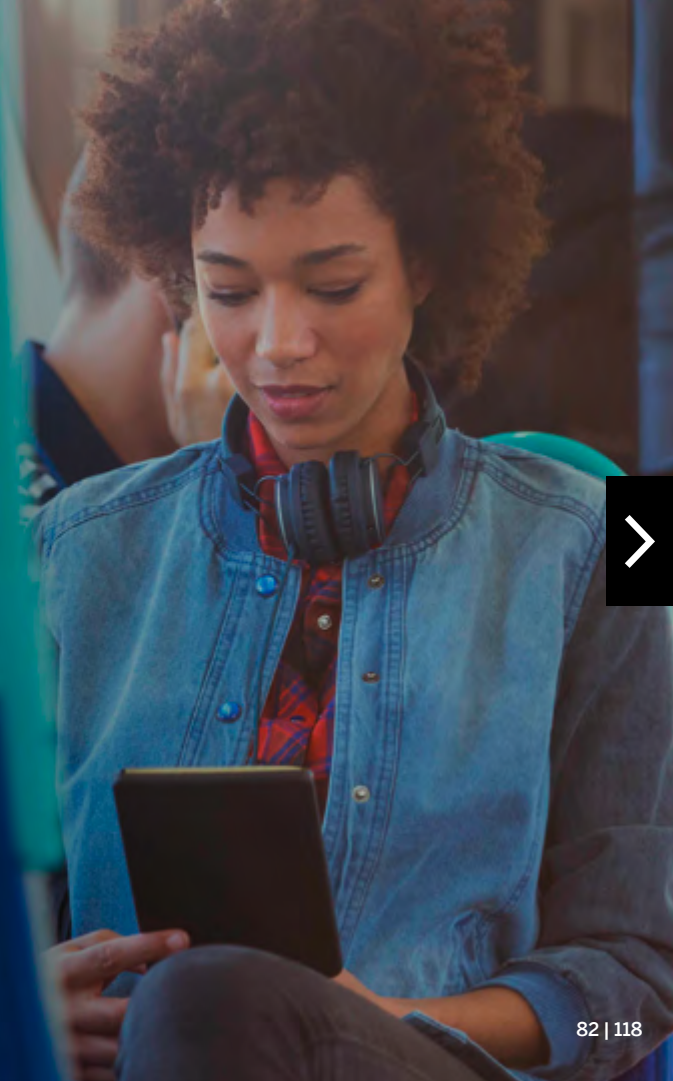
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“ We’re delighted with the results from implementing SAP Engineering Control Center as the **modern and efficient way to handle our engineering**. We’re grateful to CENIT for its assistance and advice and are very excited to take this project to the next phase.”

Uwe Kruse, CIO, Georg Fischer AG





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## Sandvik AB

### SAP Business Transformation Study

Industrial, engineering, and mining companies in 150 countries have relied on Sandvik AB's tooling systems for decades. Sandvik's research and development organization is the beating heart of a company with 50 R&D centers around the world and numerous annual R&D investments, as well as more than 7,300 active patents and intellectual property rights. That's why the Swedish conglomerate decided to bring these crucial R&D processes, performed by its business area Sandvik Machining Solutions, under one umbrella with SAP Engineering Control Center.

[Read the BTS](#)





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“SAP Engineering Control Center enables us to put all the product information from all production sites **into one system, in one place**. We now have a single source of truth, and that’s extremely important to us.”

Rickard Nordgren, PLM IT Manager,  
Sandvik AB



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## J. Wagner GmbH

### SAP Business Transformation Study

Read why J. Wagner chose to use SAP Product Lifecycle Management to simplify document management. Now, it has a comprehensive overview of its product portfolio and lifecycle, allowing the company to increase efficiency, improve data quality, and eliminate redundancies.

[Read the BTS](#)





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“ With SAP Product Lifecycle Management and SAP Engineering Control Center, we’ve been able to **streamline global product development** to better serve our customers.”

Stefanie Gross, Director, IT Applications, J. Wagner GmbH, a Member of WAGNER Group





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# In-Place SAP Engineering Control Center and Business Warehouse Migrations to SAP HANA at the State of Arkansas

## SAP Community Blog

Have you considered migrating to the SAP HANA platform or the SAP BW/4HANA solution but are concerned about the challenges you might face in the process? Fortunately, many businesses have successfully made the move and are willing to share how they did it. Case in point: The State of Arkansas recently completed migrations to SAP BW/4HANA and SAP Business Suite powered by SAP HANA.

[Read the blog](#)



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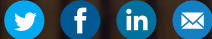
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# SAP Intelligent Product Design





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## SAP Intelligent Product Design

Accelerate product innovation with instant collaboration, requirement-driven product development, and actionable, live insights across the extended enterprise with the SAP Intelligent Product Design solution.

- Cloud deployment
- Intuitive, stateless user interface
- Tight integration with external partners
- Insights from downstream sources into design

[Learn more](#)





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## SAP Intelligent Product Design

See how you can accelerate smarter product innovation with multidiscipline collaboration, requirement-driven development of intelligent products, and live product intelligence across the value chain.





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# Handover to **Manufacturing**

## SAP Solution Capability

### **Streamline the transition of engineering master data into manufacturing production data**

- Reduce time to volume by working directly with engineering and manufacturing data structures in one solution
- Minimize product cost by thoroughly understanding master data and product structures before executing production runs
- Improve agility by deploying flexible manufacturing practices based on plant resources and capabilities
- Increase quality by eliminating errors in production master data through advanced visualization and robust work instruction during the planning process
- Avoid disruption to engineering design and production operations by providing conflict and change management capabilities

[Learn more](#)



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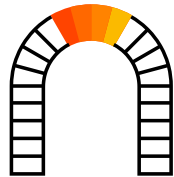
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# Integrating Diverse Engineering Authoring Tools

## SAP General Brochure

Discover how you can integrate multiple authoring tools and create a single source of consistent product data using the SAP Engineering Control Center integration tool. With a 360-degree product view, you can accelerate innovation while increasing engineering and production efficiency.



## SAP Engineering Control Center

helps you integrate data from leading authoring tools into a single version of the truth.

[Read the brochure](#)





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# SAP Intelligent Product Design: Product Development in the **Era of Digitization**

## SAP Solution Overview

See how SAP Intelligent Product Design can solve some of today's main challenges of product development with capabilities such as instant collaboration on product data, model-based systems engineering, and impact-driven requirements management.

[Read the overview](#)



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## Key Benefits



### Collaborate consistently

Work together in real time, sharing accurate PLM data across the extended enterprise

### Integrate requirements

Bring product data together with customer requirements, helping ensure traceability

### Gain actionable insights

Empower product developers and users to act in the moment with new data-driven insights





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## Key Capabilities



### Instant collaboration on product data

- Create collaboration workspaces, invite internal and external participants to join, and use a built-in 3D viewer to facilitate sharing
- Authorize stakeholders to collaborate using role-based rules
- Secure content storage and sharing across devices

### Transparency through collaboration

- Ease communication between stakeholders using workflow-based collaboration
- Review work items and directly launch shared folders with an integrated in-box
- Support integration with content management interoperability services using a repository



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## Key Capabilities



### Instant document access and updates

- Upload documents directly from the document management system to a collaboration workspace
- Update document changes made in the collaboration workspace to the document management system

### Product development driven by defined requirements

- Support requirements management in a centralized location for enhanced collaboration
- Link requirements to various objects to support complete traceability
- Analyze the impact of requirements changes to accurately understand scalability



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# Key Capabilities



## Model-based systems engineering

- Capture and manage system architectures, analyses, and designs
- Detect issues and omissions early, and reduce system defects
- View systems from multiple perspectives, and improve system understanding through visual analysis

## Development status transparency

- Gain insight into development progress with standard and customer-defined data
- Develop a new understanding of relevant objects
- Access data in various systems, and trigger follow-on actions





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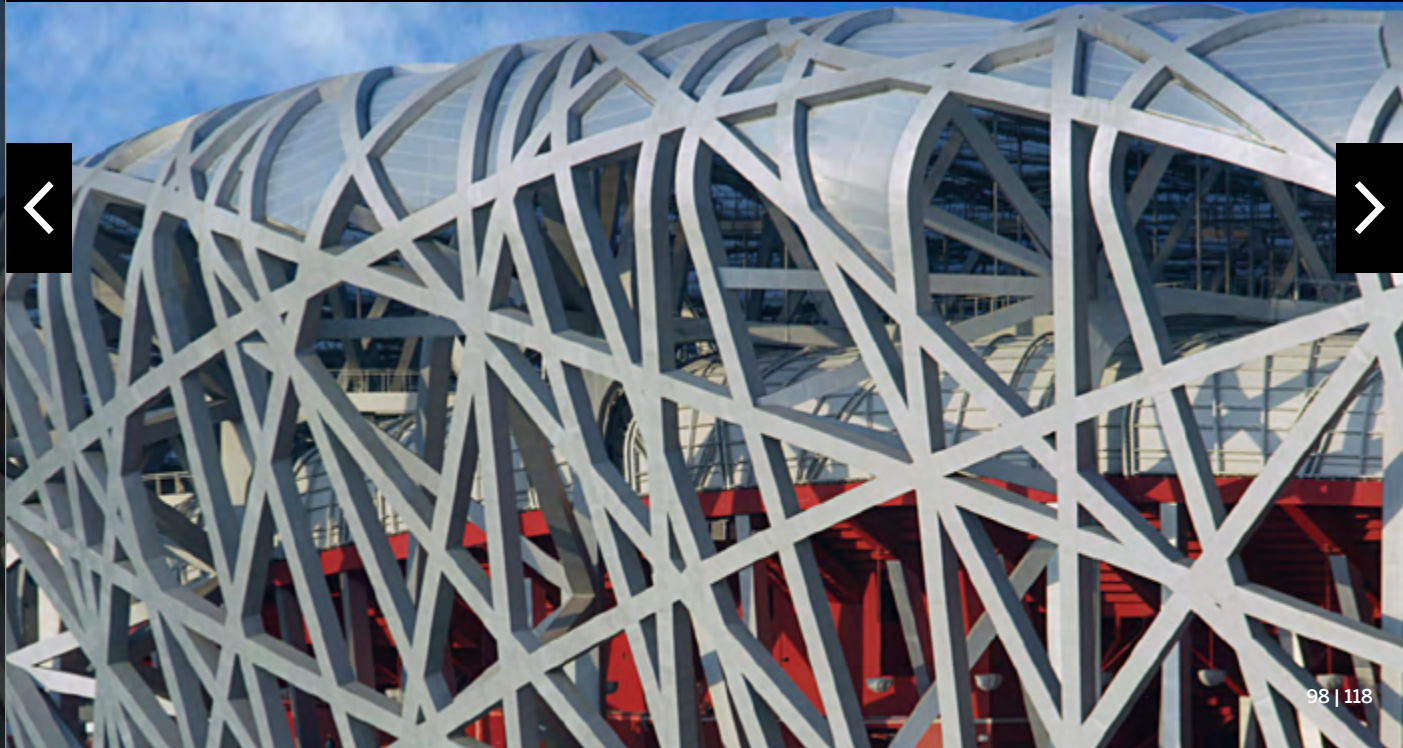
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# SAP S/4HANA for Advanced Variant Configuration







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# SAP S/4HANA for **Advanced Variant Configuration**

## SAP Solution Video

In a world of unlimited variety and possibilities, what would you pick? Individualize like never before with the SAP S/4HANA solution for advanced variant configuration.





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## SAP S/4HANA for **Advanced Variant Configuration** SAP Solution Capability

With this solution, you can use a new, advanced variant configurator that lets you customize sales, planning, production, and engineering with process and data integration. It provides the following key features:

- The new configuration engine increases quality and consistency for order configuration by using the award-winning constraint solver Gecode.
- The simulation environment reduces time to market for new products through highly efficient simulation of new product variants and options, while ensuring easy access to information through new trace and inspector.

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- The new variant configurator, integrated into the make-to-order process, supports single- and multilevel models throughout the entire digital configuration lifecycle.
- Real-time embedded analytics enables analysis of configuration and classification data combined with configured business objects to increase transparency and business insights.

[Learn more](#)





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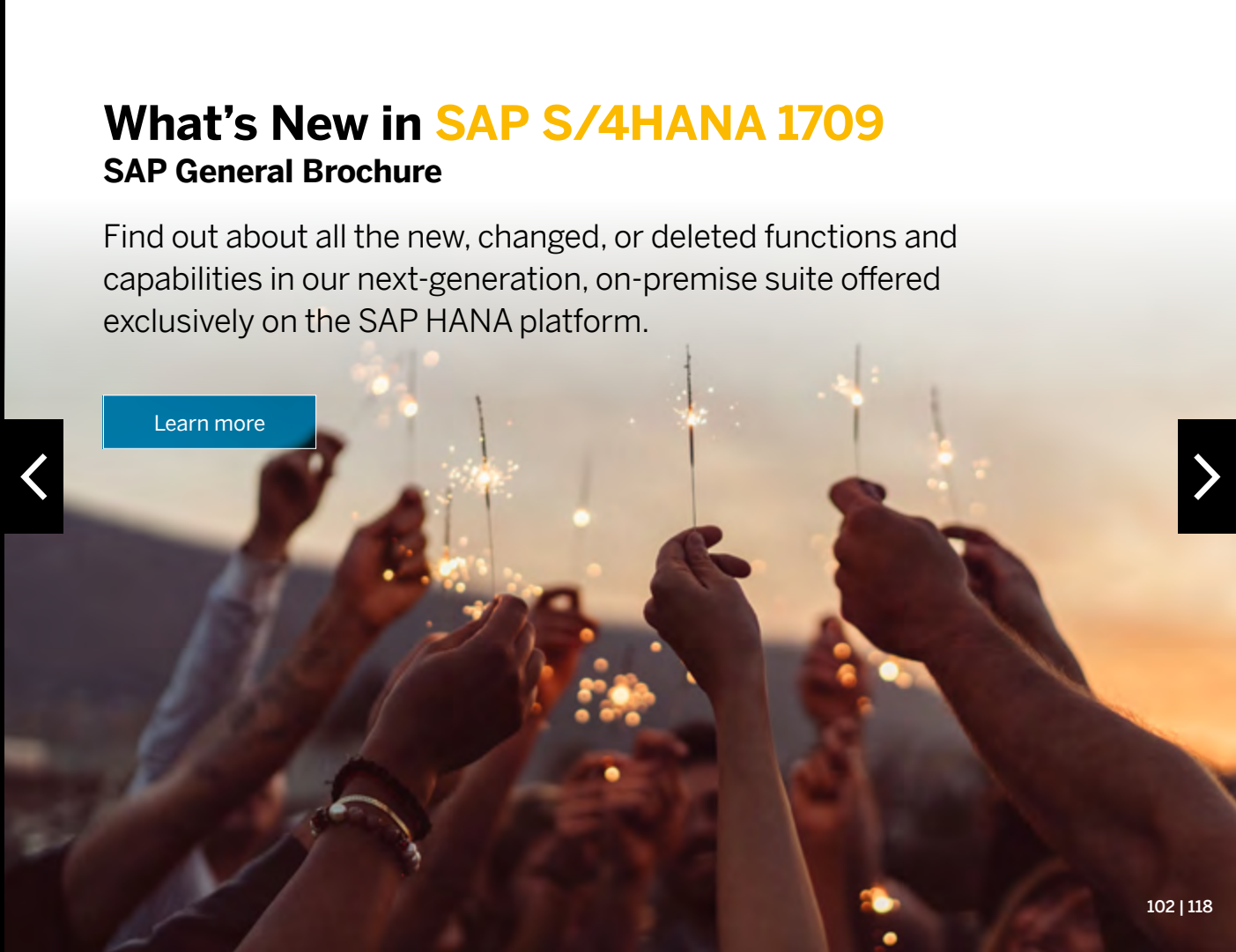
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# What's New in **SAP S/4HANA 1709**

## SAP General Brochure

Find out about all the new, changed, or deleted functions and capabilities in our next-generation, on-premise suite offered exclusively on the SAP HANA platform.

[Learn more](#)





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# SAP S/4HANA for **Advanced Variant Configuration**

## SAP Community Blog

SAP S/4HANA for advanced variant configuration contains a variety of new functionalities. In this blog, discover all the significant and important advantages from a technological and business perspective.

[Read the blog](#)



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# SAP S/4HANA for Product Compliance







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## SAP S/4HANA for **Product Compliance**

Enforce compliance at each step of the product lifecycle with our product compliance software. With the SAP S/4HANA solution for product compliance, you can manage regulations, track registrations and substance volumes, classify products, and create compliance documents, as well as package, transport, and store hazardous materials properly with accurate labeling.

- On-premise deployment
- Credible, auditable data
- Automated compliance processes
- Integrated compliance checks and improved communication

[Learn more](#)





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# Manage Global Product Compliance Throughout the Product Lifecycle

## SAP Solution Brief

Discover how SAP S/4HANA for product compliance supports product compliance throughout the product lifecycle and streamlines corresponding processes.



[Read the brief](#)



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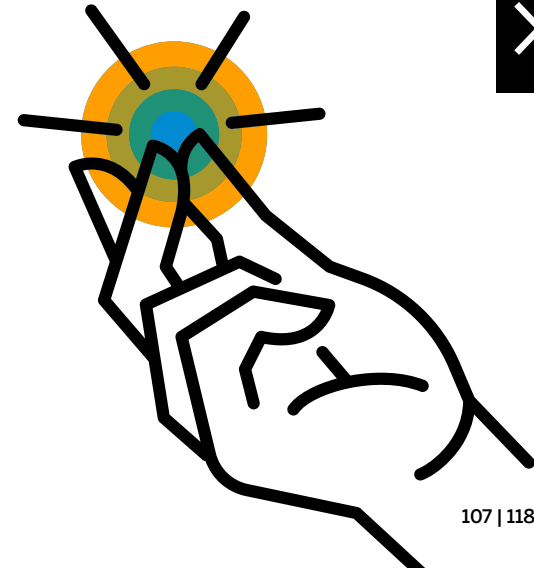
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# SAP S/4HANA for Product Compliance: Reducing Risk and Driving Business Growth

Identify and manage rapidly changing regulatory requirements using SAP S/4HANA for product compliance. Reduce the cost and risk of compliance, accelerate product introductions and new-market entries, and quickly respond to regulatory changes to gain a competitive advantage and achieve profitable growth.







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## Safety Data Sheet Management and Hazard Label Data

If you produce and sell hazardous substances in your company, you must protect humans and the environment from the hazards these substances pose. You also have to observe numerous laws and regulations on hazardous substances worldwide. Functionality for safety data sheet management and hazard label data helps you handle hazardous substances safely, bring them safely to market, and comply with all relevant regulations automatically.

[Learn more](#)



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# Dangerous Goods Management

## SAP Solution Capability

**Provide safe and compliant transportation of hazardous materials to avoid delivery delays and protect brand value**

- Manage dangerous goods information centrally, automate dangerous goods classification, and leverage provided dangerous goods content
- Ensure all shipments comply with dangerous goods regulations, with integrated dangerous goods checks that provide adequate packaging and accurate transportation modes and routing
- Automate the creation and provisioning of dangerous goods documents

[Learn more](#)



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## Key Benefits



### **Protect and increase revenue**

Streamline product development and introduction with embedded product compliance and comprehensive decision support, increasing sales

### **Safeguard and extend your brand**

Mitigate risk by using up-to-date information and documents and by ensuring compliance and safety with controls throughout the product lifecycle

### **Decrease the cost of compliance**

Update compliance processes and document creation with efficient compliance requirements management, analytics, automation, and regular content updates







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## Key Capabilities

### Product marketability and chemical compliance

- Manage compliance information centrally, and satisfy legal and customer requirements
- Track volumes of regulated substances automatically, and assess and verify products for different compliance requirements
- Ensure compliance throughout the product lifecycle with compliance and registration checks

### Safety data sheet and label management

- Manage substance and regulatory information centrally
- Streamline component and product classification, and automate safety data sheet and label creation
- Automate label printing and safety data sheet shipping that's integrated with logistics processes

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# Sustainable Design: The Key to Unlocking A Sustainable Future Design

## Forbes Blog

Many see the management and regulation of the climate crisis as **the** defining challenge of the 21st century. Companies should therefore aim to design, manufacture, and deliver sustainable products that meet the needs of the present without compromising the ability of future generations to meet their own needs. Product designers and engineers can help significantly reduce the environmental impact of products by making sure they change the way they design new products – by taking into account the environmental impact early on in the product development process.

[Read the blog](#)



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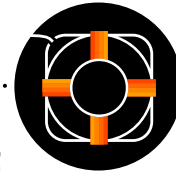
Jump-start your SAP solution implementation and drive ROI by collaborating with industry experts, consultants, and support engineers throughout your journey.



## Services

Transform your business quickly and effectively by taking advantage of our holistic service and support plans, expert consulting services, custom application development, best-practice support, and deep industry and technical knowledge

[Explore our services](#)



## Support

Get the support you need to keep your SAP solutions running at peak performance with our IT experts and support services, including long-term plans, embedded teams, remote technology support, a self-service portal, and innovation strategies

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## Security and Compliance

Focus on your business and customer relationships while knowing that your data is safe and reliable. With a proactive, predictive approach, SAP helps ensure compliance and data security in the cloud and within an on-premise data center.

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# SAP Services and Support: How Do You Become an Intelligent Enterprise?

Jump-start your SAP solutions and drive ROI by collaborating with industry experts, consultants, and support engineers to receive guidance, best-practice support, and expertise – no matter where you are on your journey.



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## About SAP

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