SAP PLM Strategy
The Roadmap to the Next Level of PLM

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About SAP Road Maps

SAP road maps cover innovations that focus on business solutions and processes. They span products that are relevant for customer lines of business in their industries and explain how our innovations can add value to your business.

In SAP road maps, you can learn about our innovations along three different timelines:

1. **Recent innovations** for our solutions have been launched in the past weeks or months and can already be purchased.
2. **Planned innovations** for our solutions are expected to be launched in the short term or midterm.
3. **Future direction** provides a long-term perspective on high-level development plans on innovations for our solutions – inspired by your requirements.
Reimagine your Business Model
Businesses have to adapt and transform to stay relevant and compete.

Digital Business is about providing a new value proposition for your customers and stakeholders. It requires new business practices, agility and speed.

**RE-IMAGINE Business Models**
- Outcome based model
- Expand to new industries
- Digital channel
- Compete as an ecosystem
- Shared economy
- Digitalization of products & services

**RE-IMAGINE Business Processes**
- Real-time processes
- Predictive processes
- Collaboration processes
- Lean processes
- Content rich business processes
- Self learning processes

**RE-IMAGINE Work**
- Consumer grade user experience
- Self services
- Real-time collaboration
- People-Machine Collaboration
- Cognitive world & AI
New Technologies Are Enabling New Business Capabilities

**REAL-TIME**
- Simplified business processes
- Value chain integration
- Seamless business

**COLLABORATION**
- People-to-People
- Machine-to-Machine
- People-to-Machine
- B2B

**DATA DRIVEN**
- Real world awareness
- Digital boardroom
- 360º business insights
- Predictive

**EXPERIENCE**
- Mass customization and Personalization
- Mobile (always on)
- 3D visualization
- Gaming and simulation
- Self learning machine
Bi-Modal IT
Bi-Modal IT

How to run your company?

How to steer your company?

How to sense?

How to engage?

How to decide?

Setting the foundation

1 0 1 0 1 0 1 1
The Bi-Modal Architecture of the Modern Enterprise

A Digital Core and a Digital Innovation System

Mode 1: Digital Core
SAP S/4HANA

Mode 2: Digital Innovation
SAP Leonardo

Connect all parts of your business to run live with S/4HANA

Tailor, Integrate & Expand the Core with SAP Cloud Platform
Product Strategy 2020 based on two parallel paradigms
SAP’s R&D Product Strategy 2020

- Efficiently manage **Core Processes** in Product Development and Portfolio & **Project Management**
- **Collaboration** Platform
- Differentiate through **Systems Engineering**
PLM for Discrete Industries and Variant Configuration
Target Process for Discrete Industries

Mode 1

Live Engineering

CAD Design  Cost Control  Engineering & Release  Change Management  Manufacturing  Operations

Design Engineer  Cost Controller  BoM Engineer  BoM Engineer  Manufacturing Engineer  Operator and Service

Mode 2

Requirements & Test Management  Design Collaboration

Systems Engineer  All

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Live Engineering

LIVE Engineering

Wear and tear analysis

Problem fixing

Production Engineering

Design Collaboration

Requirements → Design → Production → Installation → Operation → Decommission

You own it

Your customer owns it
SAP Intelligent Product Design

Embedded Systems
- Integrate mechanics, electronics, and software into Smart Connected Products.
- Enable requirements-driven Systems Engineering
- Link engineering master with digital twin completing the extended supply chain

Project and Design Collaboration
- Provide virtual collaboration on engineering documents and 3D designs
- Plan and execute collaborative tasks across company boundaries
- Connect IoT, Digital Core, and Business Networks creating seamless value chain

Systems Engineer Cockpit
- Embedded SW
- Requirements Management
- Functional Structure Management
- Where Used Analysis
- Compatibility Management
- Test Validation
- IOT Analytics

Collaborative Engineering and Document Collaboration
- Collaborative 3D Visual Design Review
- Simple Task/Worklist Management
- Change Management Integration

SBN Webinar
Innovations for Embedded Systems Development
- Sept 29th 2017

Planned Innovations

Manufacturing Cloud Services
IoT/AIN
SAP Ariba
SAP Cloud Platform
SAP HANA
SAP NetWeaver
SAP S/4HANA and ECC

LAB PREVIEW
LIVE PRODUCT PERFORMANCE
SAP Asset Intelligence Network: Analytics Performance Benchmarking & Product Manager Overview

FLEET ANALYTICS
David
Product Manager

REQUIREMENTS-DRIVEN DEVELOPMENT
SAP Intelligent Product Design*: Requirements & Software Management

REQUIREMENTS MANAGEMENT
Thomas
Systems Engineer

PRODUCT LIFECYCLE COSTING
SAP Product Lifecycle Costing

PHYSICAL ENTITY

DIGITAL TWIN

DETAIL ENGINEERING
SAP Engineering Control Center: Mechanic Electric/Electronics & Software Integration

SAP ENGINEERING CONTROL CENTER
John
Systems Engineer

INTERNET OF THINGS

CUSTOMER SALES ORDER CREATION
Hybris: Configure, Price & Quote

SAP HYBRIS
Michael
Customer

Planned Innovations
Product Lifecycle Costing

Calculate costs and other dimensions for new products or quotations in an early stage of the product lifecycle, to quickly identify cost drivers along the lifecycle, and to easily simulate and compare alternatives.

Highlights

- Real-time calculation engine
- Flexible costing structure design
- Microsoft Office like UX
- Versioning, baselining, lifecycle, simulation and what-if analysis
- Flexible price sources, determination and confidence level
- Straightforward UI and calculation logic extensibility framework
- Flexible foundation for operational and management reporting & analysis

Integration

- Integration with SAP ERP and S/4HANA, and open for any other data source

SBN Webinar

Integrated cost management with SAP Product Lifecycle Costing
tba 2017
SAP S/4HANA Enterprise Management: Document Management

Collaborate and Share Document Info record Content via Document Center and DMS integration.

Search and Maintain Document Info records with new FIORI app for Maintain Document.

Simple interface to handle attachments supporting GOS/DIR and URL as attachments.

Integration into external Content Management Systems like OpenText via open Interface standards (CMIS)
SAP S/4HANA Enterprise Management: Simplified BOM

**Highlights:**

- Efficient and customizable bill of material search via filters and key fields.
- BOM draft feature to enable tentative decisions and changes. Changes can be either saved or discarded.
- Provision of a change timeline which allows navigation to different change instances from application itself.
- Functionality to create and assign change number from the overview page.
- The application also incorporates attachment services. The attachment service is a reusable UI component that allows the users to attach documents and files to any business object.
SAP S/4HANA Enterprise Management: Change Record Applications

Highlights:

- Efficient collaboration via connected change processes across departments.
- Controlled change risks via joint decision based on workflow.
- Single source of truth, centralized change data of scopes, processes, and task owners.
- Flexibility to support all kinds of changes.
- Quickly pinpointing change impacts.
Manufacturing Engineering

Define scope of engineering design (visual or non-visual)
Restructure / Plan as Design the Engineering Structure
Assign BOM components to the routing/net work activity
Visual simulation and creation of visual work instructions
Adapt changes using enhanced Change Management

Highlights

- Use various engineering sources: Document, EBOM, PSM
- Tag/Define Object dependencies
- Configuration based visual assembly simulation
- Forward navigation to various transactions (MM, Quality, Routing, Engineering Record)
- Phantom assembly support
- Parameter effectivity support for EBOM
- Create and export Visual Work Instructions along with Camera positions
Classification on S/4HANA

Highlights:

- SAP Fiori UI for classification
- State-of-the-art class assignment
- Support of Product, Batches, and Documents
- Real-time embedded analytics using CDS-Views

Planned Innovations
Configure Price Quote & S/4HANA Variant Configuration

Integrated CPQ and S/4HANA will cover the Entire Configured Life Cycle

SAP Hybris

Configure, Price, Quote (CPQ)

Seamless integration: “One Configuration Model”

SAP S/4HANA

Product Lifecycle Management

Highlights:

- Mobile-first, 3D-first User Experience
- Micro-service-based cloud engine for flexible processes
- Sales can flexibly enrich options and values
- Seamless integration between S/4HANA and Hybris: One Configuration Model
- Focus on S/4HANA-related roles
- Fully integrated into all VC-related business processes
- Leverages SAP HANA capabilities

Planned Innovations
Advanced Variant Configuration

- Integrated configurator
- State-of-the-art engine
  - Variant matching
  - Advanced filtering
  - Configuration management
  - Undo / Redo
- Templates / User roles
- Hybris CPQ integration

Advanced Variant Configuration
Sales Configurator

Advanced Variant Configuration
Embedded Analytics

- Embedded Analytics for sales and production scenarios
- Segmentation on characteristic/value level
- Classification

Highlights:

- Integrated configurator as part of the Make-to-Order Scenario
- Seamless configuration, model simulation & tracing
- Ensure consistency of sales configurations
- Close the process gaps between engineering and variant configuration
- Analyze, adapt and sell configured products
- Execute make to order process across engineering, sales and manufacturing

SBN Webinar
Advanced Variant Configuration in S/4HANA
Nov 17th 2017
# SAP S/4 HANA Roadmap - Highlights for Discrete Industries

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<th>Recent Innovation</th>
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<th>Future Outlook</th>
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<td>Further drive End-To-End Process Integration</td>
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For details, please see: [https://apps.support.sap.com/innovation-discovery](https://apps.support.sap.com/innovation-discovery)
PLM for Process Industries
Target Process for Process Industries

Mode 1
- Idea / Targets: Product Manager
- Concept / Trials: Recipe Developer
- Product / Recipe Development: Recipe Developer
- Scale-Up: Recipe Developer, Manufacturing Engineer
- Product / Launch: Manufacturing Engineer

Mode 2
- Requirements & Targets Collaboration: Recipe Developer
- Compliance Collaboration Network: Compliance Engineer
SAP S/4HANA Enterprise Management: Recipe Development in the Cloud

**Highlights:**

- User centric, seamless User Experience
- Full product definition supporting multilevel recipe formulation
- Product process support including parameters and equipment requirements
- Product compliance validation using integrated check capabilities
- Seamlessly integrated specification development and management to EH&S
- Labeling with product, target market and package specific declaration information
- Handover to Manufacturing via Recipe to BOM synchronization capabilities
Target Driven Recipe Development

**Highlights:**

- **Formulation enhancements to present all relevant formulation information and calculations and checks on one screen to the developer**
- **Provide on the fly product compliance checks during formulation**
- **Extended product labeling capabilities to partly automate processes**
- **Enhanced QM integration to trigger trial specific inspections needs, integrated in the developer’s work environment for one IP compliant documentation**
- **Integrate into cloud services for compliance, declaration and collaboration purposes**

**Planned Innovations**
### SAP S/4 HANA Roadmap - Highlights for Process Industries

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Enterprise Portfolio and Project Management
EPPM Target Process

Mode 1

- Idea & Portfolio
  - Portfolio Manager

- Initiate
  - Project Financial Controller (PMO)

- (Re-)Plan
  - Project Manager

- Execute
  - Project Team

- Monitor
  - Project Stakeholder

- Close
  - Project Financial Controller (PMO)

Analyze

Mode 2

- Project Collaboration
  - Project Members

Planned Innovations
Projects Overview Page & Project Brief

**Highlights:**

- Keep track of your products on one page
- Projects Overview: Monitor and access all information for projects of a Project Manager, e.g. costs, milestones, status
- Project Brief: Overview of all relevant project information in one page to steer projects and update project stakeholders
- SAP Fiori: Role-based access, user interfaces and apps
Predictive Embedded Analytics in EPPM

**Highlights:**

- Project Portfolio Forecasting Based on Historical Data
- Projects often do not meet their budget and timeline
- Users tend to be overly optimistic or, on the contrary reserve safety buffers resulting into poor project planning and forecasting
- The goal is to increase planning/forecasting accuracy by automatically learning from the past.
SAP CoPilot integration for EPPM

Instant Embedded Project Collaboration

Highlights:

- Process integrated collaboration
- In-context chatting
- Sharing of notes and screenshots
**SAP Intelligent Product Design**

**Embedded Systems**
- Integrate **mechanics, electronics, and software** into **Smart Connected Products**.
- Enable requirements-driven **Systems Engineering**
- Link engineering master with **digital twin** completing the extended supply chain

**Project and Design Collaboration**
- Provide **virtual collaboration** on engineering documents and 3D designs
- Plan and execute collaborative tasks **across company boundaries**
- Connect IoT, Digital Core, and Business Networks creating seamless **value chain**

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**Planned Innovations**

- Requirement Driven Engineering Collaboration
- Collaborative Documents & 3D Visual Design
- Simple Task/Worklist Management
- Change Management Integration

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**Technology Stack**

- SAP S/4HANA Cloud and on premise
- SAP NetWeaver
- SAP Ariba
- IoT/AIN
- HCP Services
- SAP HANA Cloud Platform
# SAP S/4 HANA Roadmap - Highlights for EPPM

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Oct 27th 2017

For details, please see: https://apps.support.sap.com/innovation-discovery
Closing
Closing

The Next Generation, **Intelligent PLM** for a Digital World

**Immediate**
Empowering business users with insights to act in the moment

**Intelligent**
Beyond automation, to predictive suggestion

**Integrated**
Not only between your departments, but connected to the world
Frank Spiegel
Chief Product Owner Strategy & Eco System - P&I S/4HANA Idea
LoB R&D / Engineering
SAP SE

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