

Discover SAP Enterprise Product Development

Define, develop, deliver, and manage
innovative & sustainable products

SAP Virtual Event

Tuesday, September 12, 2023

03:00 PM - 06:00 PM CET

PUBLIC



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Agenda

1. Where do good product change ideas come from?
2. Enterprise Integration: Leveraging SAP's super power
3. Product Data Collaboration without Boundaries
4. SAP Enterprise Product Development for cross-functional collaboration, Presentation by Gramont
5. SAP Enterprise Product Development Strategic Roadmap



01

Where do good **product change ideas** come from?



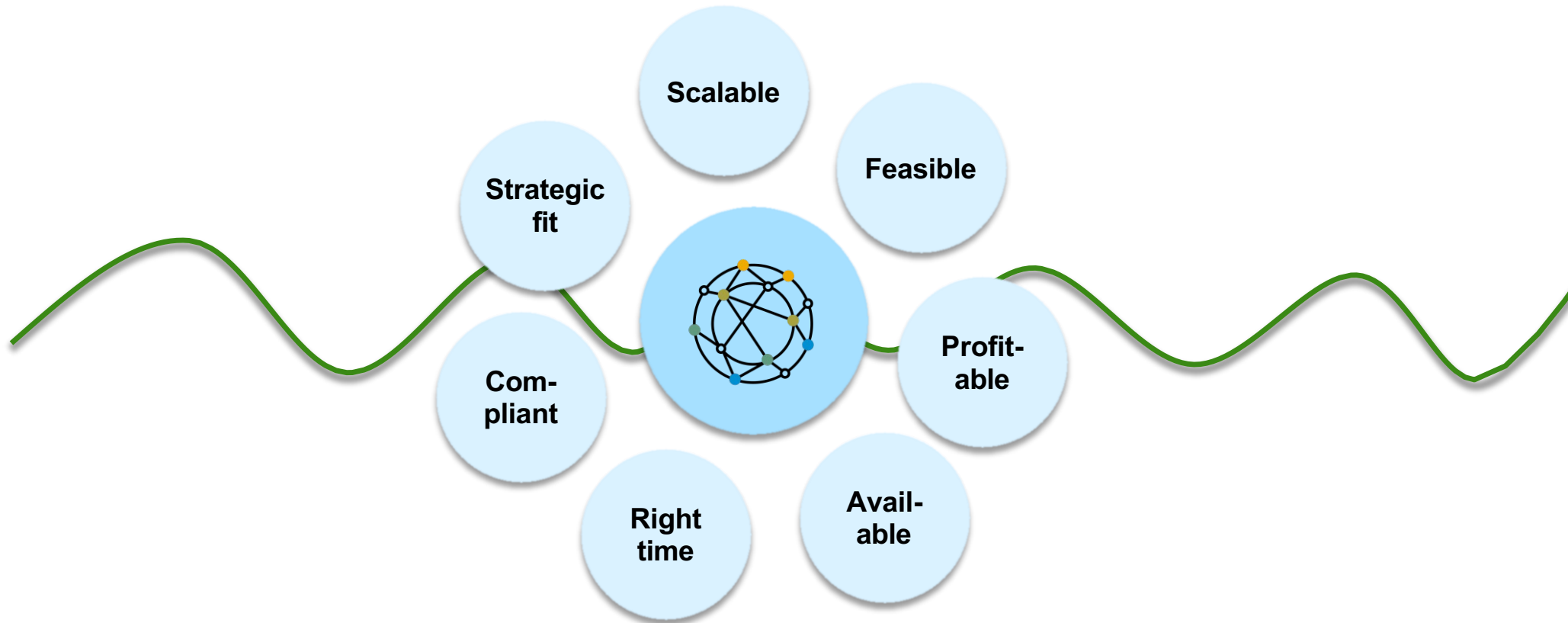
Ing-Marie Lönnerheden
SAP



Atilla Madarász
SAP

- What are good product change ideas and where can they be found?
- How can we identify the best ideas to pursue?
- How can we ensure a holistic and rapid change process?

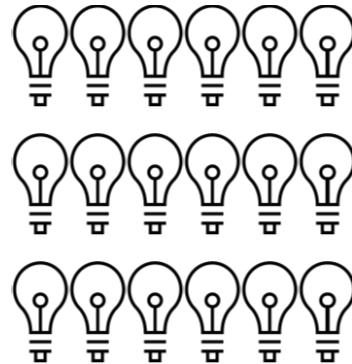
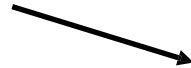
What is a great product change idea?



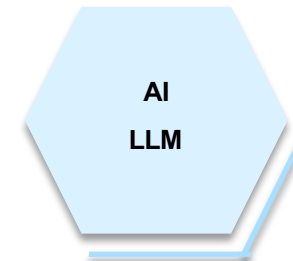
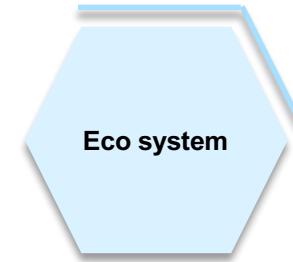
Solves a problem in a great way for the end users

What are good sources for ideas?

Internal sources



External sources









Innovation Management
























Collaboration

Requirements Engineering and System Modeling

Test Management

<p>Manage Campaigns</p>  30	<p>Manage Ideas</p>  81	<p>Needs</p>  18	<p>Innovation Homepage</p>  27	<p>My Evaluations</p>  25 Ideas to be evaluated	<p>Settings for Product Innovation Management</p> 
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Collaboration

<p>Collaboration - Data Security</p> 	<p>Configure Collaboration</p> 	<p>Configure Product Data</p> 	<p>Configure Product Package Exchange</p> 	<p>Configure Provisional Specifications</p> 	<p>Configure Visibility Scenarios</p> 	<p>Event Acquisition</p> 	<p>Load Value Sets for Specification</p> 	<p>Manage Decisions</p> 	
<p>Manage Packages</p> 	<p>Manage Provisional Specifications</p> 	<p>Manage Teams</p> 	<p>Monitor Visibility Scenarios</p> 	<p>Monitor Workflows Workflow Instances</p> 	<p>My Collaborations</p> 	<p>My Inbox</p>  8	<p>Process Flexibility Cockpit</p> 	<p>Process Workspace Visibility Scenarios</p> 	
<p>Product Package Exchange</p> 	<p>Specification - Data Security</p> 	<p>Status Management</p> 	<p>Workflow Properties</p> 	<p>Manage Rule Projects</p> 					

Requirements Engineering and System Modeling

<p>PUBLIC Requirements Management and</p>	<p>Review Requirements</p>	<p>Settings for Review Requirements</p>
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Product Innovation Management

Manage Campaigns

3

Manage Ideas

3

Innovation Homepage

2

My Evaluations

1

Ideas to be evaluated

Needs

1

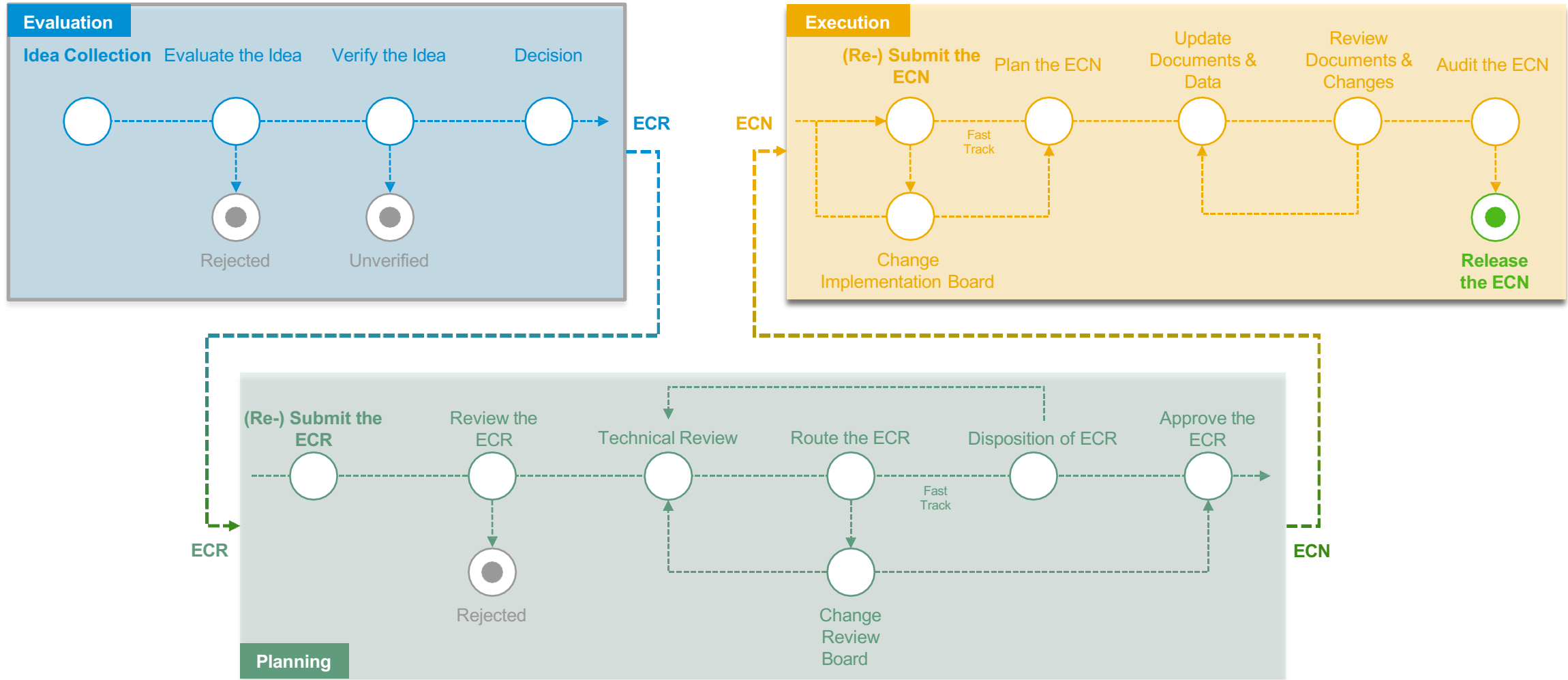
Settings for Product Innovation Management

Product Innovation Management - Data Security

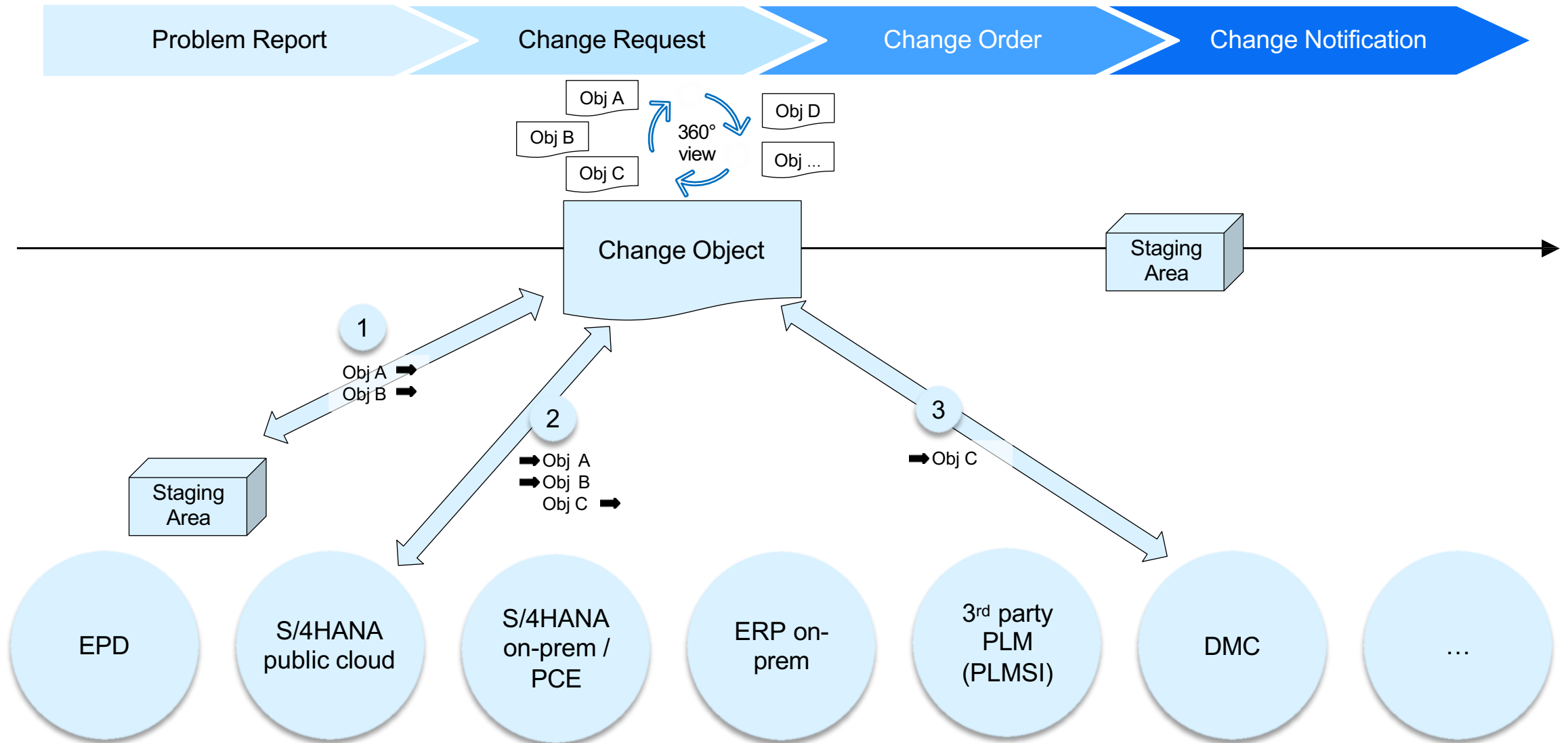
AI

My Evaluations
1
Ideas to be evaluated

Change Process



Our vision on change management



02

Enterprise Integration: Leveraging SAP's super power



Gerhard Himmelsbach
SAP



Nick Wang
SAP

- What does the SAP PLM Portfolio for different industries look like?
- Why is Visualization Important to Manufacturers and Asset Operators?

SAP PLM Portfolio for Discrete and Process Industries

Tailored-to-fit PDM/PLM (Private Cloud)

3rd party tools

SAP Engineering Control Center and SAP PLM
System Integration for S/4HANA

PLM

S/4HANA Cloud, private edition

Ready-to-run Cloud PDM/PLM (Public Cloud)

SAP PLM Portfolio for Discrete and Process Industries

Tailored-to-fit PDM/PLM (Private Cloud)

3rd party tools

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3rd party tools

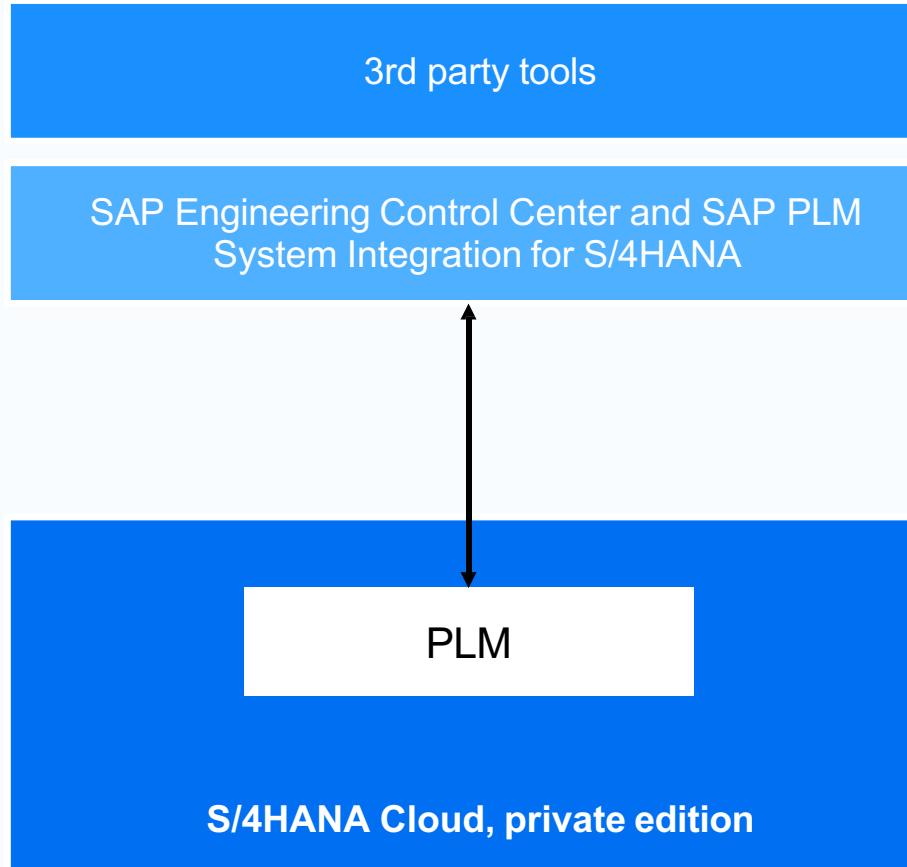
SAP Enterprise Product Development

PLM

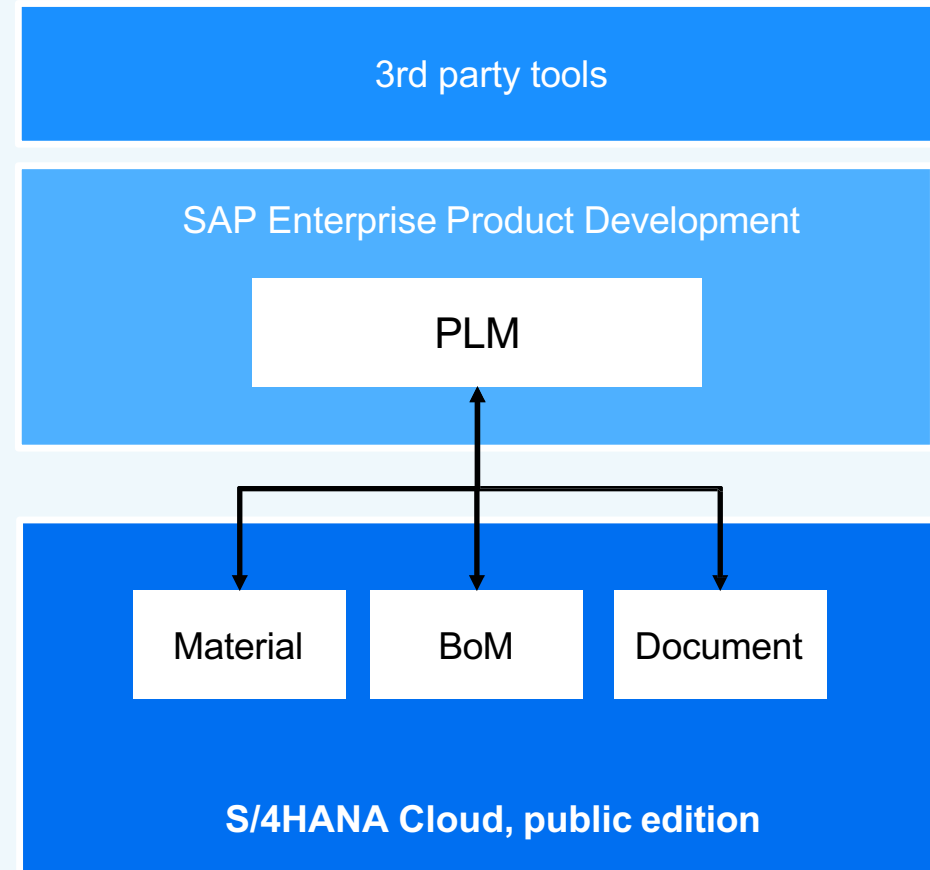
S/4HANA Cloud, public edition

SAP PLM Portfolio for Discrete and Process Industries

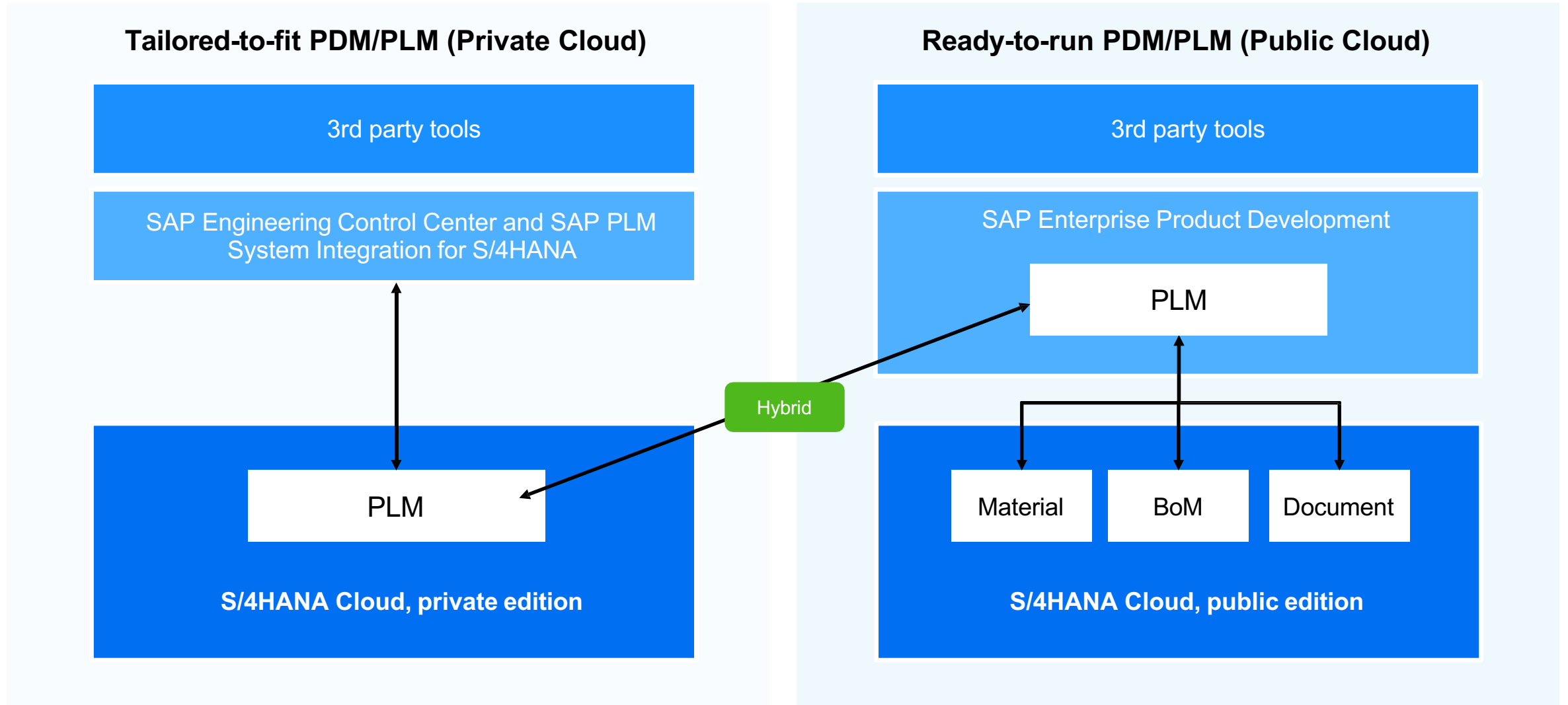
Tailored-to-fit PDM/PLM (Private Cloud)



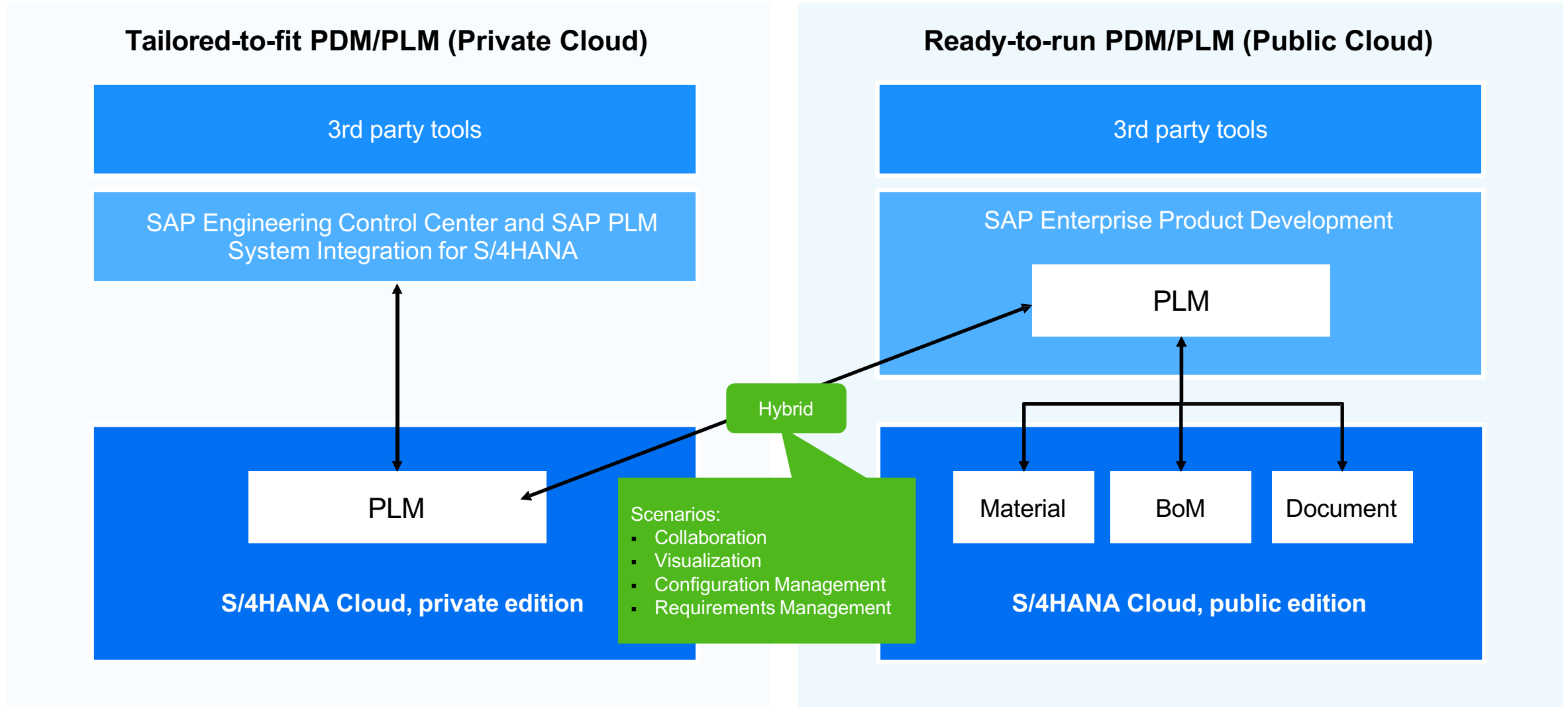
Ready-to-run PDM/PLM (Public Cloud)



SAP PLM Portfolio for Discrete and Process Industries



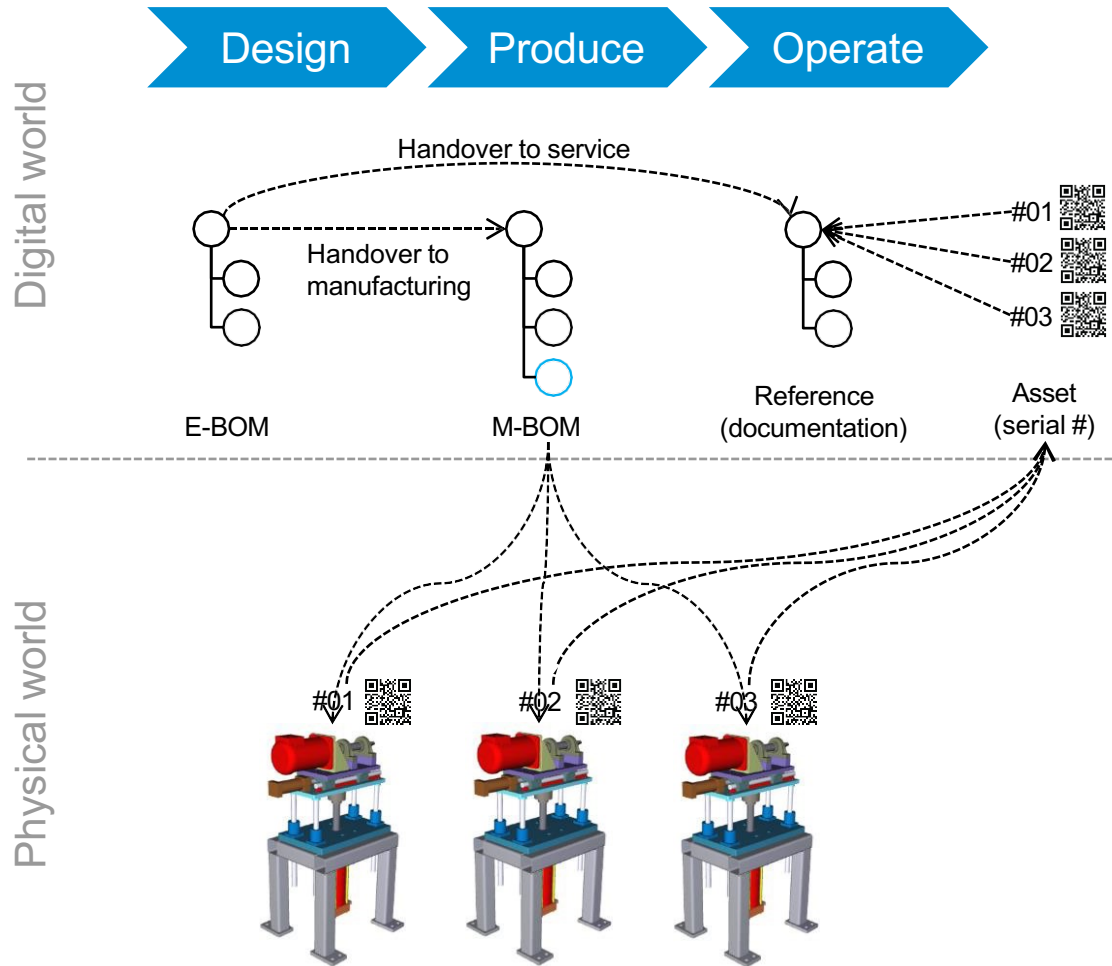
SAP PLM Portfolio for Discrete and Process Industries



Design to Operate

My Enterprise

Other Business Partners

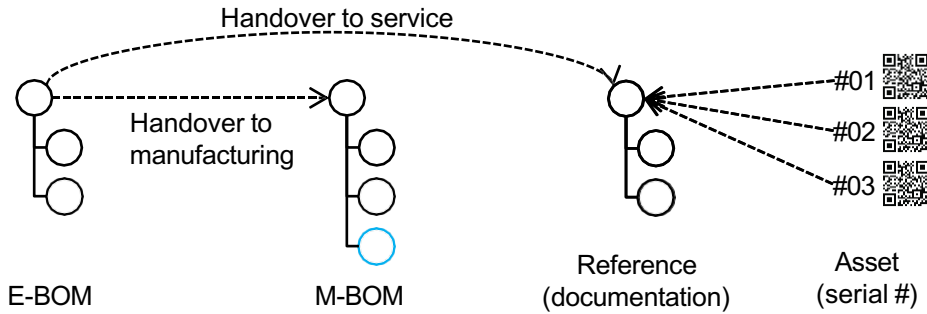


Design to Operate

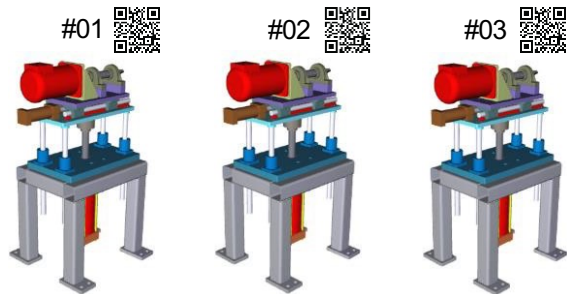
My Enterprise

Other Business Partners

Digital world



Physical world



Why is Visualization Important to Manufacturers and Asset Operators?

Change and Complexity in our Products & Assets...



Smart Products

Products with embedded systems and/or software are getting more complex



Connected

Everything and everyone is connected



People Expertise

Domain knowledge requires product & asset contextual information



Processes

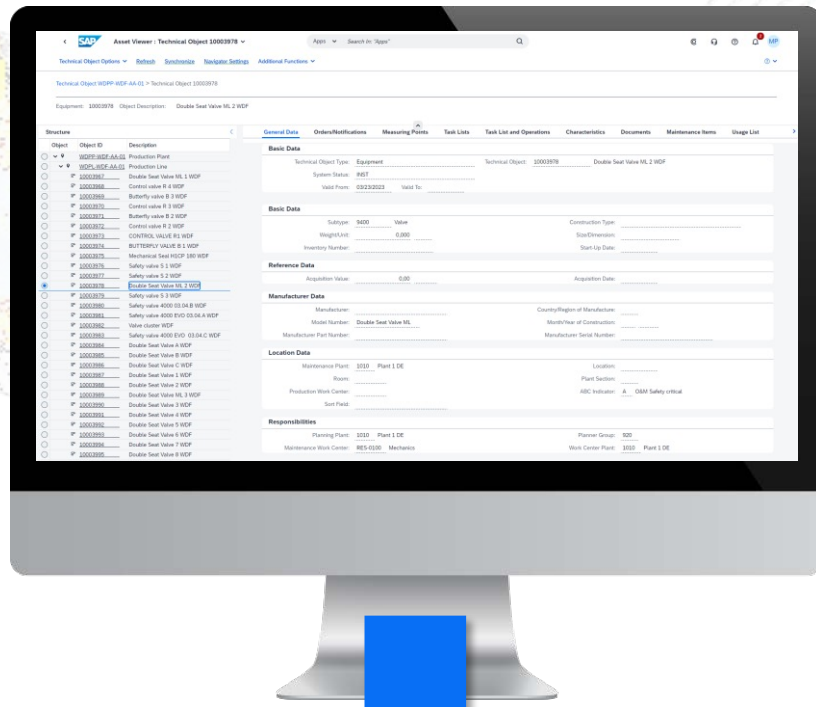
Siloed data and thinking does not work, change management is continuous



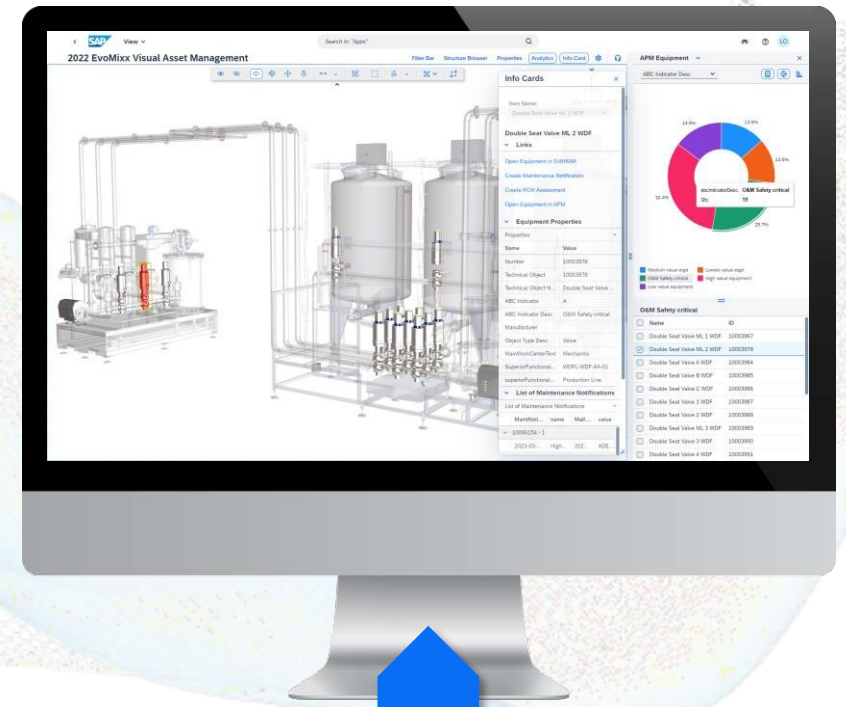
Technology

Modern day workforce, demand a modern-day user experience

We can't go on like we did in the past to manage this complexity...
We need a paradigm shift on the way we access, deliver and execute enterprise data....



- Product Design
- Collaboration & Sourcing
- Product Compliance
- Manufacturing & Quality
- Work Instructions
- Asset Management & Service
- Spares Parts



Moving from Text & Table Centric to a Visual Digital Thread

Digital Thread for Visual Asset Management

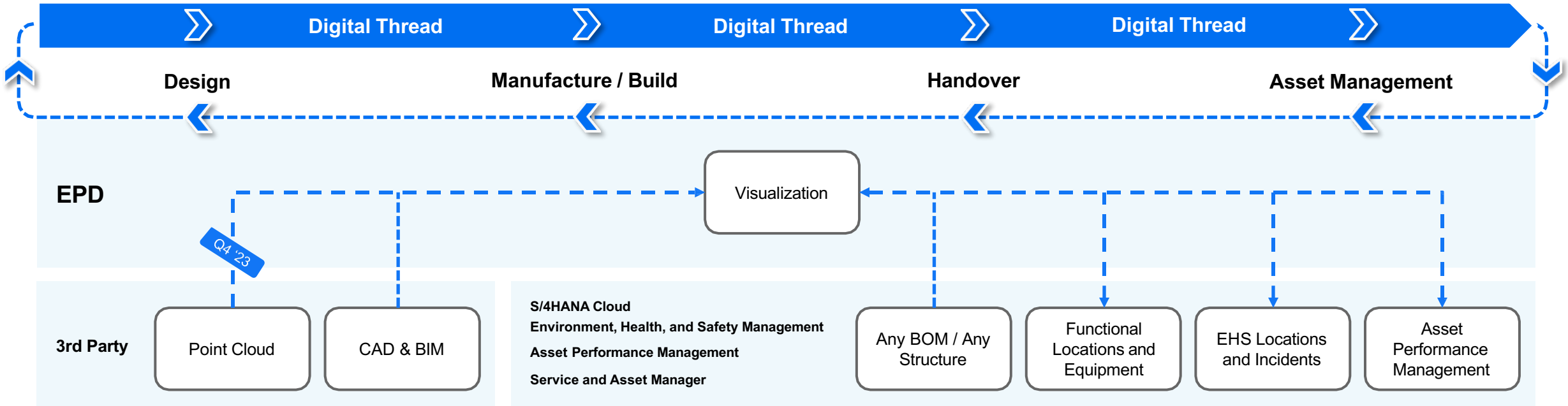
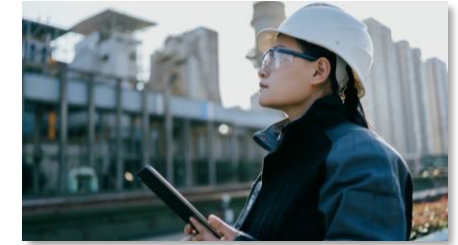
"I need to reuse 2D & 3D Design data from Design to Operations and Service"

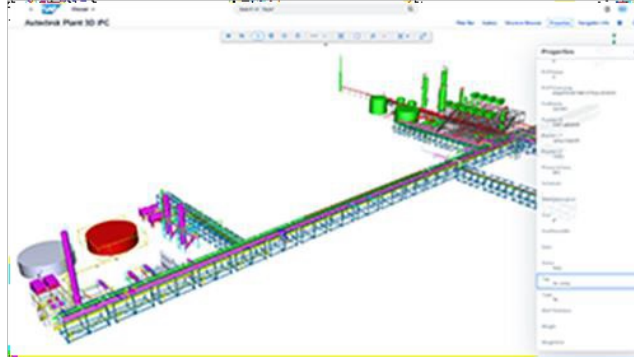


"I need to restructure the EBOM to MBOM to SBOM or EAM structure and tag with GUID's"

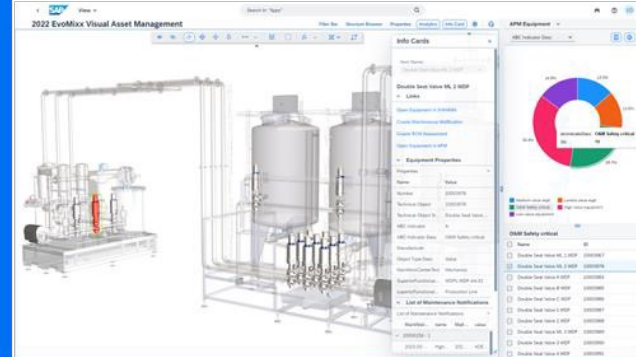


"I need to Operate and Service industrial assets"





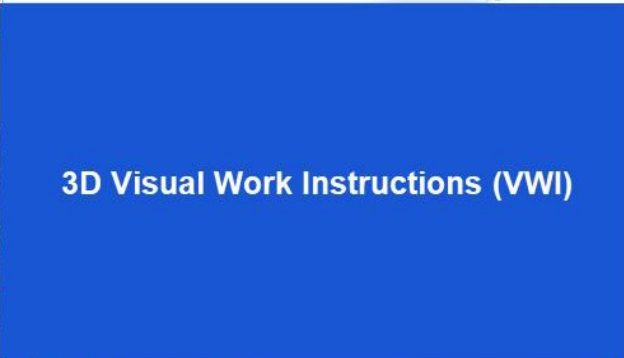
Building Information Modeling (BIM)



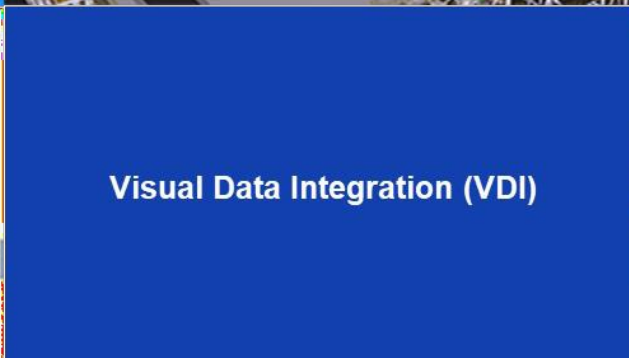
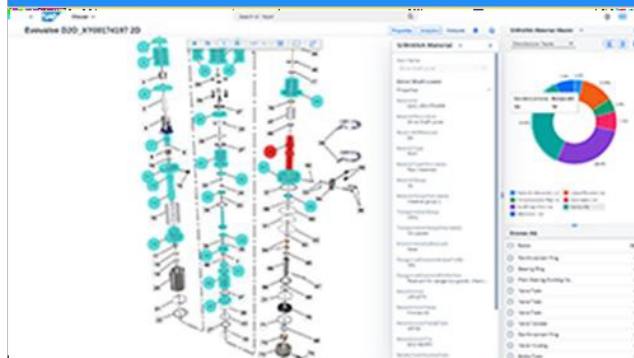
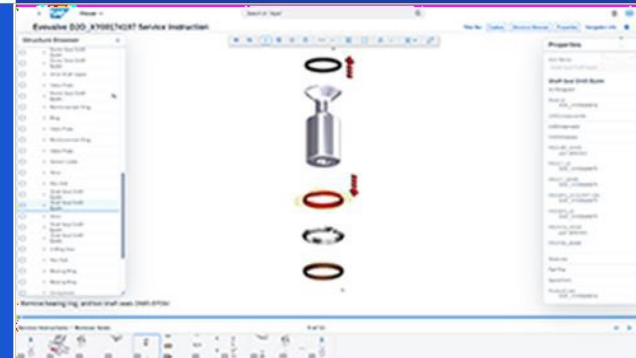
3D Visual Asset Lifecycle Analytics



Industry Foundation Classes (IFC)



3D Visual Work Instructions (VWI)



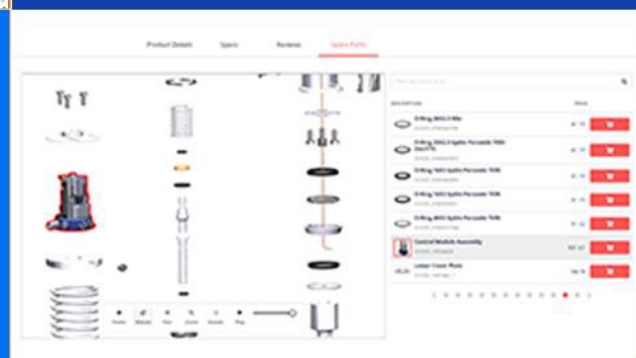
Visual Data Integration (VDI)



2D Visual Navigation



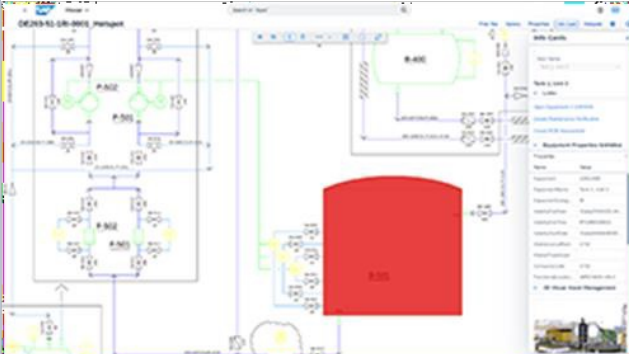
2D & 3D Visual Spares



360 Panoramic Images



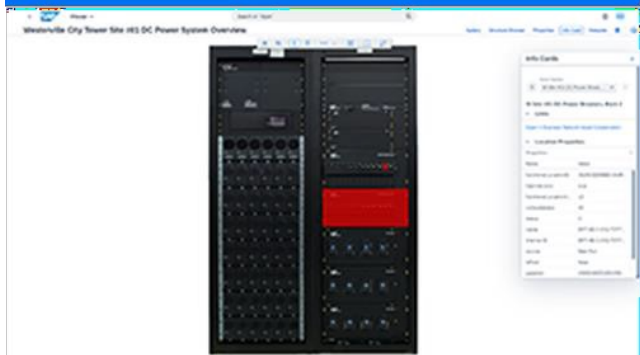
Piping and Instrumentation Diagram's (P&ID's)



2D .DWG



Massive Model Visualization

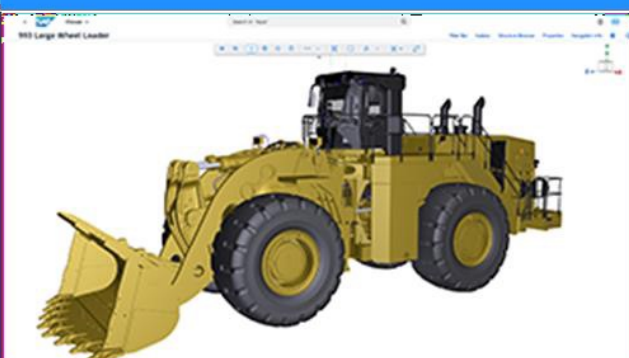


3D Augmented Reality

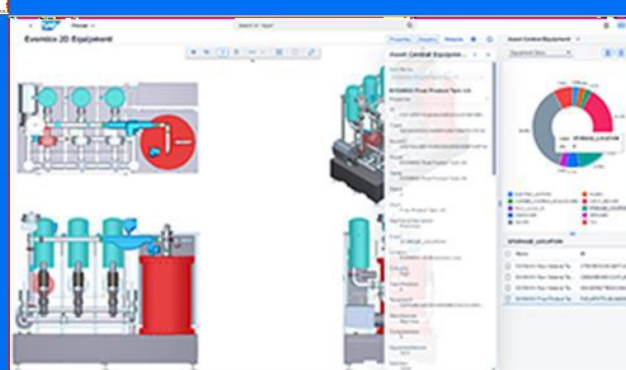
2D Images / Photographs



Computer Aided Design (CAD)

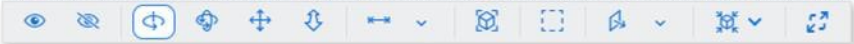


2D & 3D Mobile Asset Execution



2D Visual Asset Lifecycle Analytics

2022 EvoMixx Visual Asset Management



Info Cards

Item Name:
Double Seat Valve ML 2 WDF

Double Seat Valve ML 2 WDF

Links

- Open Equipment in S/4HANA
- Create Maintenance Notification
- Create RCM Assessment
- Open Equipment in APM

Equipment Properties

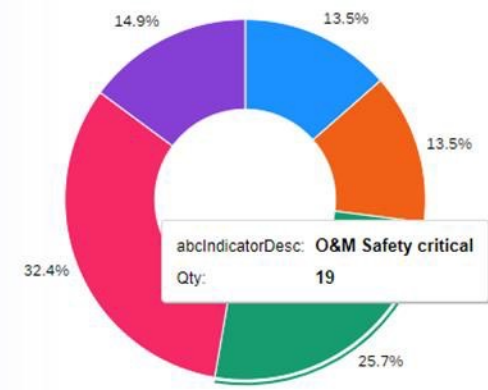
Properties	
Name	Value
Number	10003978
Technical Object	10003978
Technical Object N...	Double Seat Valve ...
ABC Indicator	A
ABC Indicator Desc	O&M Safety critical
Manufacturer	
Object Type Desc	Valve
MainWorkCenterText	Mechanics
SuperiorFunctional...	WDPL-WDF-AA-01
superiorFunctional...	Production Line

List of Maintenance Notifications

MaintNoti...	name	Malf...	value
10006154 - 1			
2023-03-...	High...	202...	ADE...

APM Equipment

ABC Indicator Desc

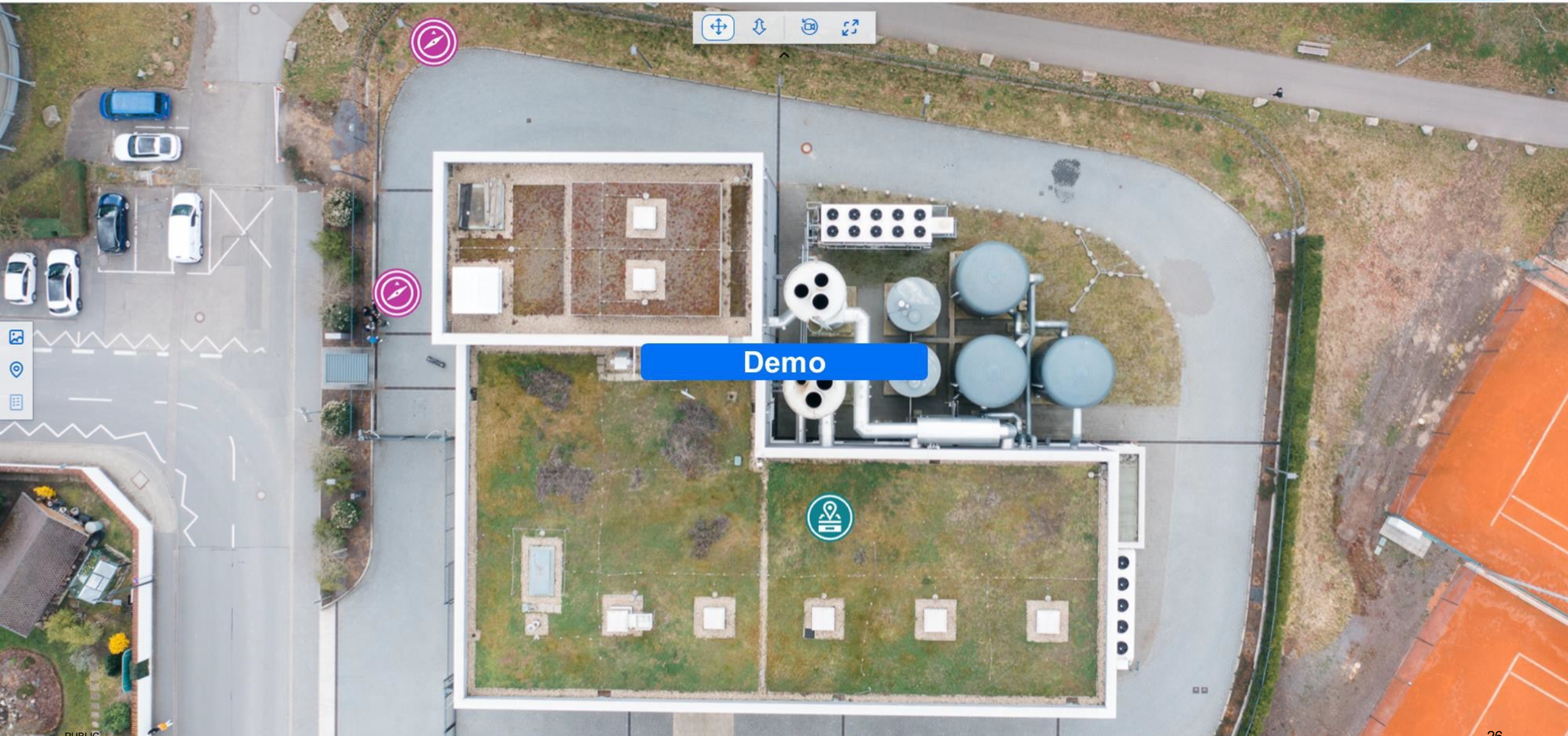


- Medium value eqpt
- Lowest value eqpt
- O&M Safety critical
- High value equipment
- Low value equipment

O&M Safety critical

Name	ID
<input type="checkbox"/> Double Seat Valve ML 1 WDF	10003967
<input checked="" type="checkbox"/> Double Seat Valve ML 2 WDF	10003978
<input type="checkbox"/> Double Seat Valve A WDF	10003984
<input type="checkbox"/> Double Seat Valve B WDF	10003985
<input type="checkbox"/> Double Seat Valve C WDF	10003986
<input type="checkbox"/> Double Seat Valve 1 WDF	10003987
<input type="checkbox"/> Double Seat Valve 2 WDF	10003988
<input type="checkbox"/> Double Seat Valve ML 3 WDF	10003989
<input type="checkbox"/> Double Seat Valve 3 WDF	10003990
<input type="checkbox"/> Double Seat Valve 4 WDF	10003991

WDF 50 2D Visual Navigation Alerts



Chemical_Plant DS 0.02



3D Edit Animate Annotate Material Markers



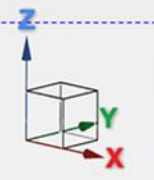
Selection List

No selection

Structure Browser

Chemical_Plant.e57

Aspect ratio 16:9



**2311 Point Cloud Support
"Lab Preview"**



03

Product Data Collaboration without Boundaries



Mark Landrosh
SAP



Manoj Kaippilly
SAP

- How can cross-departmental collaboration can lead to an emergence of great collective intelligence for the enterprise?

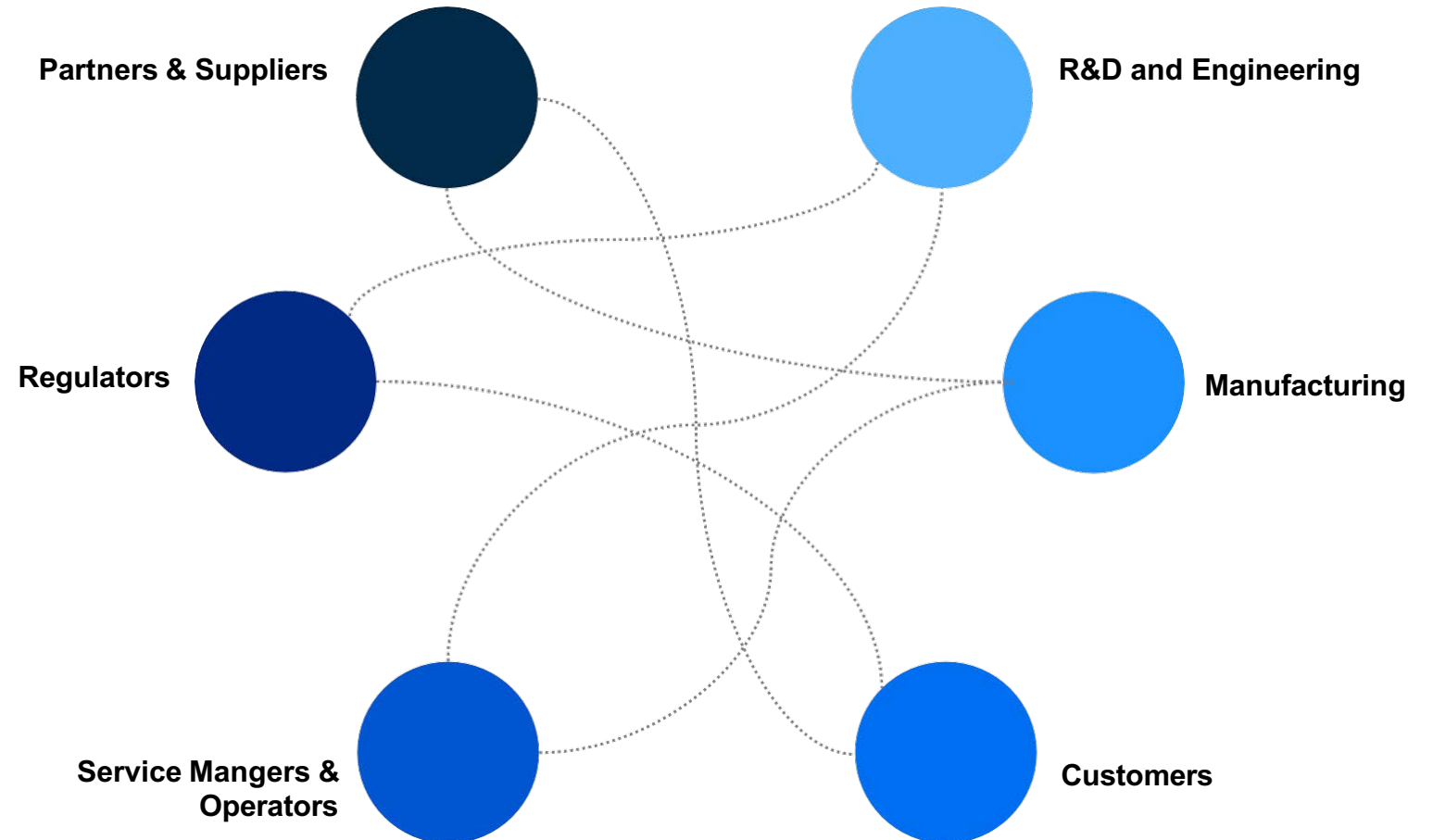
Today's challenges in PLM

Challenges

- Increasing product complexity
- Heterogenous systems landscapes
- Supply chain disruptions

Implications

- Increase time-to-market
- Increasing R&D spend
- Reduced ability to Innovate

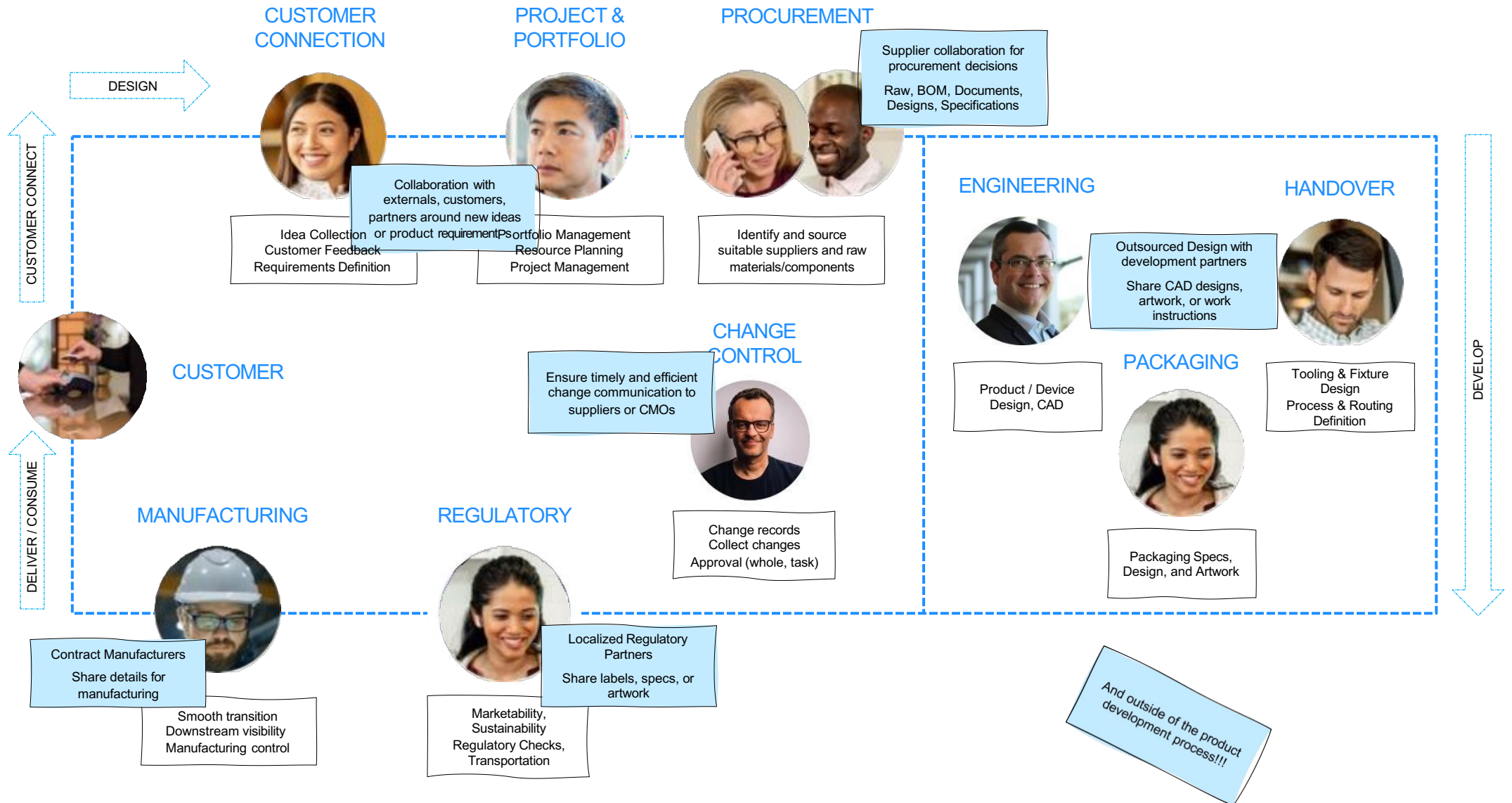


Harnessing Collective Intelligence: **Collaborative Edge** using EPD

Collaboration drives
innovation, efficiency,
compliance, and **optimized**
manufacturing in product
development



Streamlining Collaboration in the Product Development Process



Demo: Supplier Collaboration

The screenshot displays a CAD software interface for a 3D model of an intelligent valve. The main window is titled "Collaborate with Sub-contractor on material info" and includes a "Markup" toolbar with options like "Filter Bar", "Gallery", "Structure Browser", and "Properties". The "Structure Browser" panel on the left lists a hierarchy of components, with "D1691842_1" selected. A "Conversation" panel on the right shows a chat window for "epd_demo@demo.cloud.sap".

Collaborate with Sub-contractor on material info
SRCE (SRCE)
Status: Created
Created On: Nov 3, 2022
Created By: EPD Demo
Document Expiry:

Work Items (0) | **Shared Documents** | Shared Product Data (0) | Reference Objects (2) | Design Models (1) | Comments (0) | Participants (2)

Shared Documents
Collaborate with Sub-contractor on material info
Standard Items (2)
Type Name Modified On Modified By
 Specs Nov 3, 2022 epd_demo@de
 Design Models Nov 3, 2022 epd_demo@de

Collaborate with Sub-contractor on material info
Markup Filter Bar Gallery **Structure Browser** Properties
Save Save As Discard Changes

Markup Name: * Intelligent Valve

Structure Browser

- DXY00174199
- > D902080371
- > DXY00174198
- > D18184458-1
- D1691842_1
- D369843_1
- D369843_1
- D369843_1
- D1627849_1
- D1627849_2
- D1627849_3
- D1691856_1
- D1881415_1
- D1881415_1
- DCAPSENSE_V
- DCM_001

Conversation

Conversation-1

epd_demo@demo.cloud.sap
Now

Highlight markups

Video [link](#)

Accelerating Digital Transformation with SAP Enterprise Product Development (EPD)

COMPANY

Leading Automobile manufacturing based out of Europe is the world's leading manufacturer of premium automobiles and motorcycles. The company has 31 production and assembly facilities in 15 countries and a global sales network

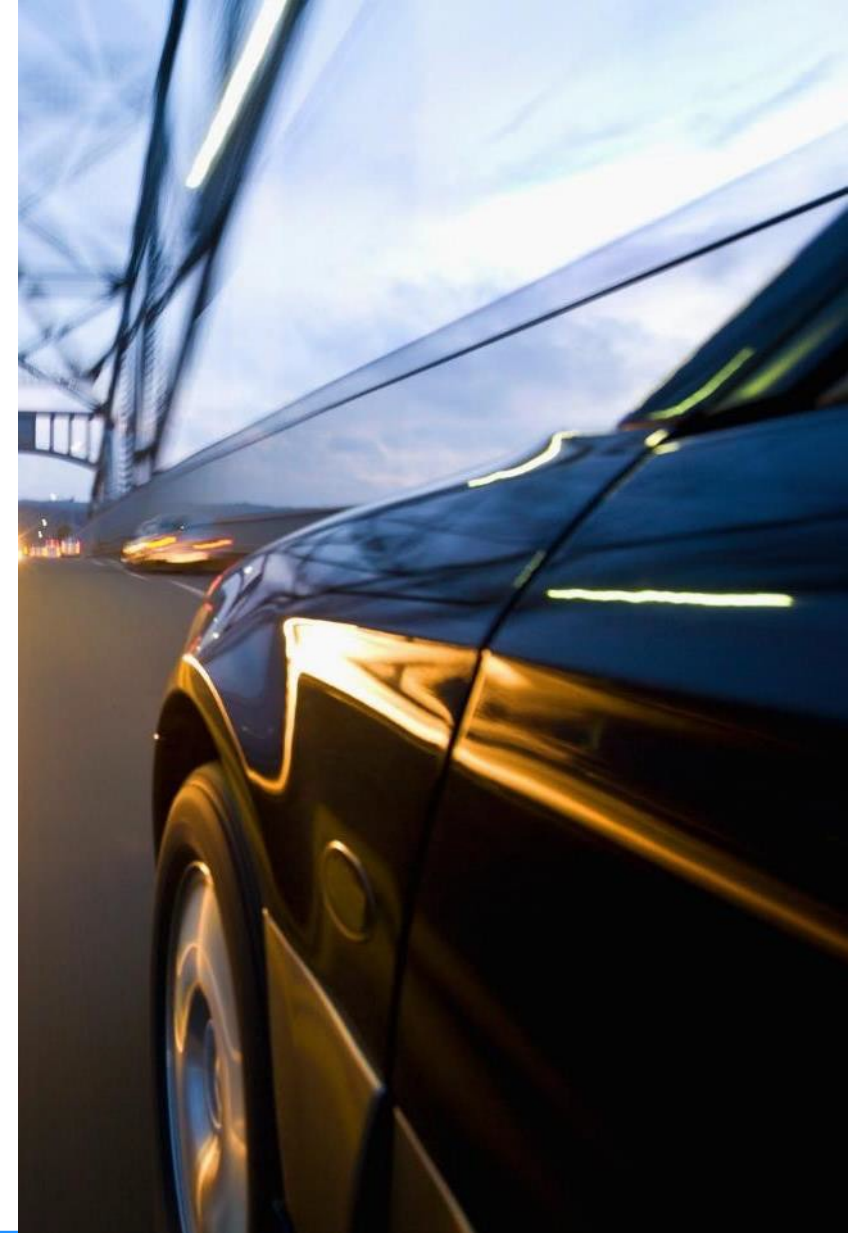
USE CASES & OBJECTIVE

Customer leverages EPD collaboration as replacement for cFolders to ensure timely availability of the **invoices** to customers and carriers for **custom clearance of shipments**.

- Solution to integrate and streamline product and data exchange across extended enterprise
- Customer adopted SAP EPD to benefit **300+ users globally** for **collaborations** and sharing documents seamlessly with customers and carriers

WHY SAP?

- ✓ Multi factor authentication enabled for secure document access for customer and its users
- ✓ Custom attributes such as search/sort/filter provided ease of document access for users
- ✓ Better control mechanism for managing users access for internal and external users
- ✓ Compliance without human intervention for documents: "Auto deletion after retention time"
- ✓ Simple browser-based FIORI UI, supporting mobile clients
- ✓ Clients/Business owners can subscribe for email notification for specific folders



Industry

Automotive

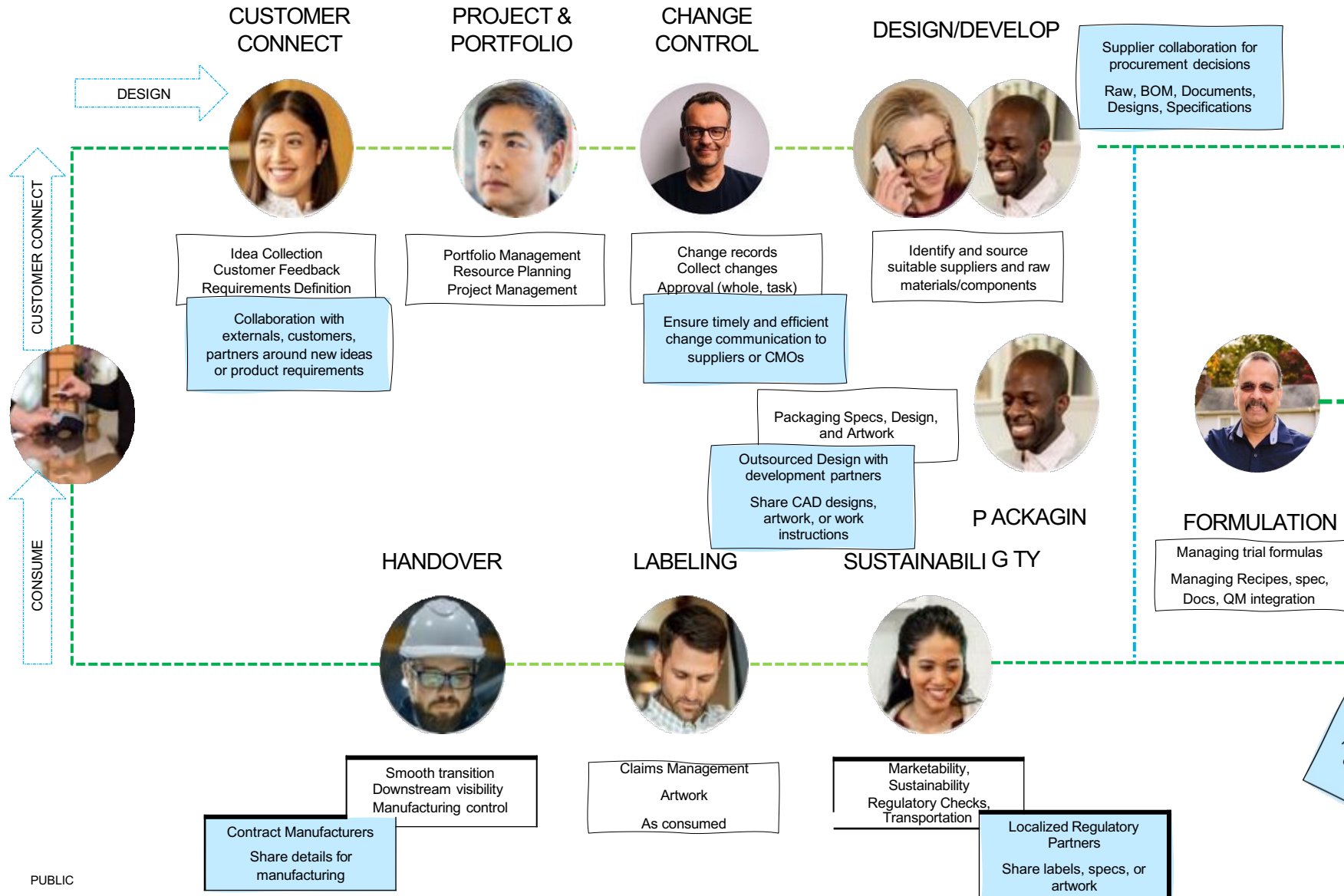
Employees

> 125,000

Featured Solutions and Services

SAP Enterprise Product Development (EPD):
Collaboration

Streamlining Collaboration in the Product Formulation Process



Digitally Enhanced Product Development

- Full visibility across complete Product Lifecycle
- Integrated collaboration with internal and external business partners
- Regulatory compliant and cost effective product development

Developing the right product across the extended enterprise with SAP Enterprise Product Development

COMPANY

Global food company headquartered in Europe, that is one of the world's largest exporters of organic meat. As a cooperative they have an obligation to receive the livestock that their cooperative members supply. The company sells fresh and processed meat via their various brands along with a series of byproducts to customers in 130+ countries and went live with SAP EPD collaboration in May 2023.

USE CASES

- Collaborate with suppliers on documents and contracts in a process driven way to streamline information exchange
- Collaborate with suppliers on specifications for processed meats and byproducts, ensuring regulatory compliance, and maintaining a single source of truth

WHY SAP?

In line with their ambition to continually strive to improve their farm to fork process. SAP is an essential strategic component of the customer's future digital platform, that will enable them to achieve:

- ✓ Faster time to market
- ✓ More sustainable services and products for their end consumers
- ✓ Improved customer satisfaction



Industry

Consumer Products

Suppliers

Around 6,000

Revenue

Approx 8bil USD

Featured Solutions and Services

SAP Enterprise Product Development (EPD):
Collaboration and Specification

Harnessing Collective Intelligence: Collaborative Edge using EPD

Supplier Collocation



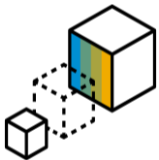
- **Optimize** supply chain to ensure time delivery of materials and **minimize** production delays.
- Foster **Innovation** – Enable access to **specialized** knowledge and valuable **insights**
- Support sustainability efforts - work hand-in-hand with suppliers to ensure adherence to **ethical** and environmental standards, driving **responsible** sourcing and production **practices**

BOM Collaboration



- **Accurate and Aligned Production** ensures that both the **primary manufacturer** and **co-manufacturer** have a synchronized understanding of the **required** components, quantities, and assembly processes
- Facilitate **real-time** communication between manufacturers and co-manufacturers.
- ensures that both parties are aware of and adhere to regulatory requirements for ingredients, labeling, and manufacturing processes

Design Collaboration



- Enable stakeholders to **visualize** and interact with designs in a **realistic digital** environment
- **Red lining** design documents with feedback, suggestions, or changes to **facilitate** collaborative **revisions**
- Aligns packaging aesthetics with brand identity, ensuring **consistency** across product lines

Document Collaboration



- **Ensures** regulatory compliance by providing a comprehensive record of processes, materials, and actions, facilitating transparency and **accountability** in adherence to legal and industry standards
- **Documents** such as Certificates of Analysis (COA), Safety Data Sheets (SDS), and quality test results can be collaboratively managed to ensure **accuracy**, consistency, and regulatory **compliance** throughout the product lifecycle

05

SAP Enterprise Product Development Strategic Roadmap



Carsten Dietze-Selent
SAP



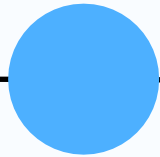
Ismail Serin
SAP

- Product Goals
- Roadmap highlights
- Summary

SAP Enterprise Product Development: Long-term Product Goals

Goals

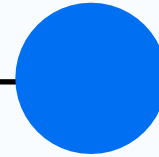
2024



Enterprise PLM in the Cloud

- Provide a modern PLM process for Discrete and Process Industries
- Fast access to new innovations based on the Digital Thread
- Expand integrations with S/4HANA and SAP Digital Supply Chain

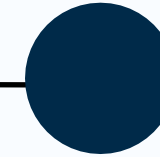
2024/2025



AI-enabled PLM

- Expand AI scenarios and infuse it into core PLM process steps
- Reduce manual and repeatable user tasks
- Leverage knowledge graphs for product mining scenarios

2026/2027



Network-aware PLM

- Continuously evolve the suite and expand integrations scenarios
- Enable organizations to establish KPI-driven PLM processes
- Expand collaboration and business network scenarios

Enablers



**Process-Centric
Enterprise PLM in the Cloud**



**PLM as a platform for
partners**



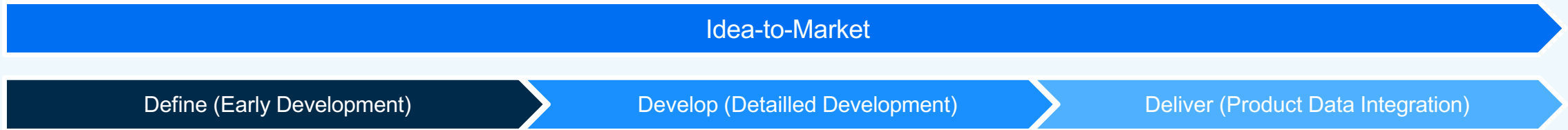
**Continuous Feature
Delivery (CFD)**



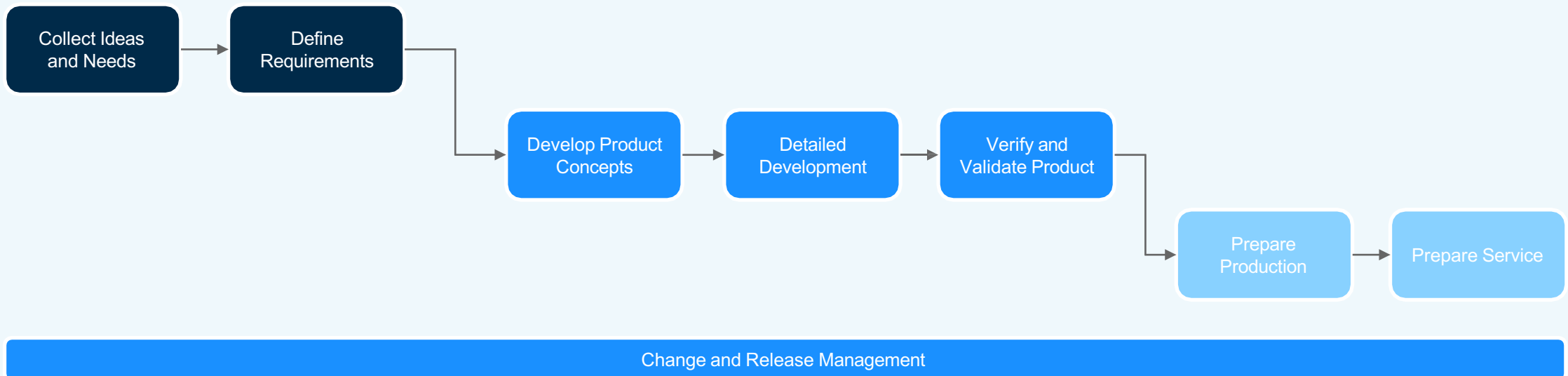
**Simple and fast
Adoption**

PLM Process for Discrete and Process Industries

New Product Development & Introduction (NPDI) process



Core business process steps in SAP Enterprise Product Development

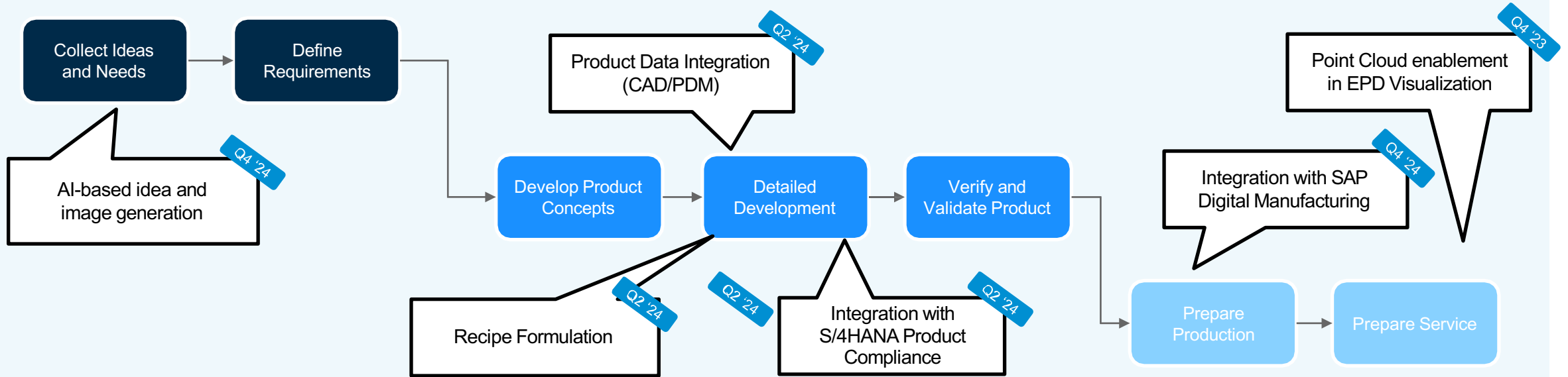


Roadmap Highlights

High level process



Planned innovations in the end-to-end process



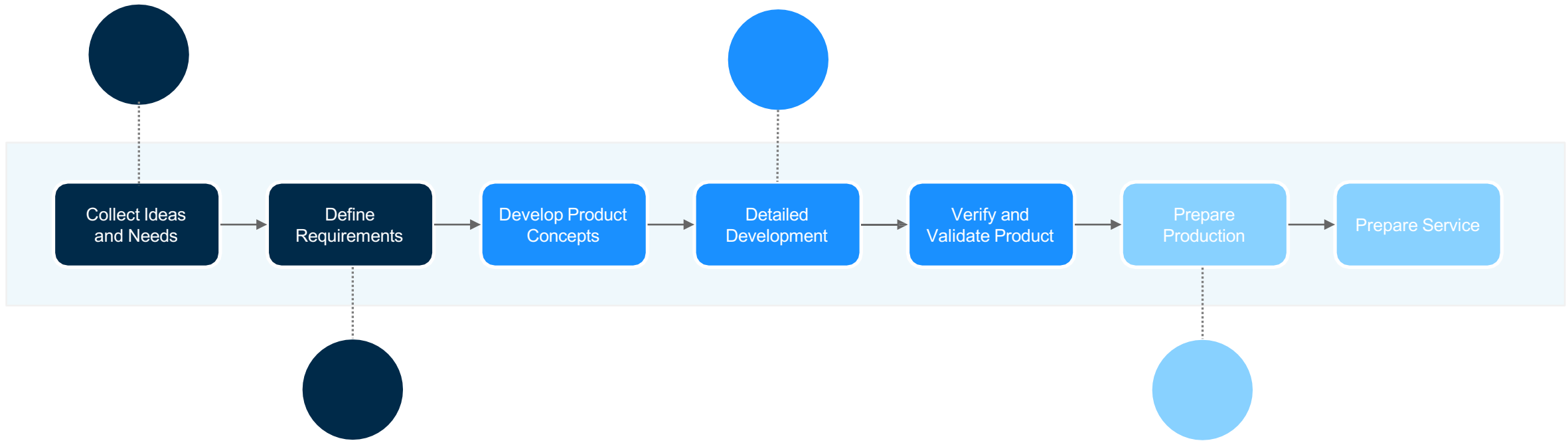
AI Infusion in PLM

Prompt Example

Analyze customer feedback and reviews to generate insights on potential improvements

Prompt Example

Generate 3 draft recipes based on the the requirement specification



Prompt Example

Generate a detailed requirement specification of a new idea that address a need

Prompt Example

Create a Manufacturing Bill of Material based on a the winning Recipe

Digital Thread for Discrete Industries

"I need to understand the market and define requirements"



"I need to design a drive-system and provide break function"



"I need to create an M-BoM and Production Instructions"



"I need service and operate the asset"

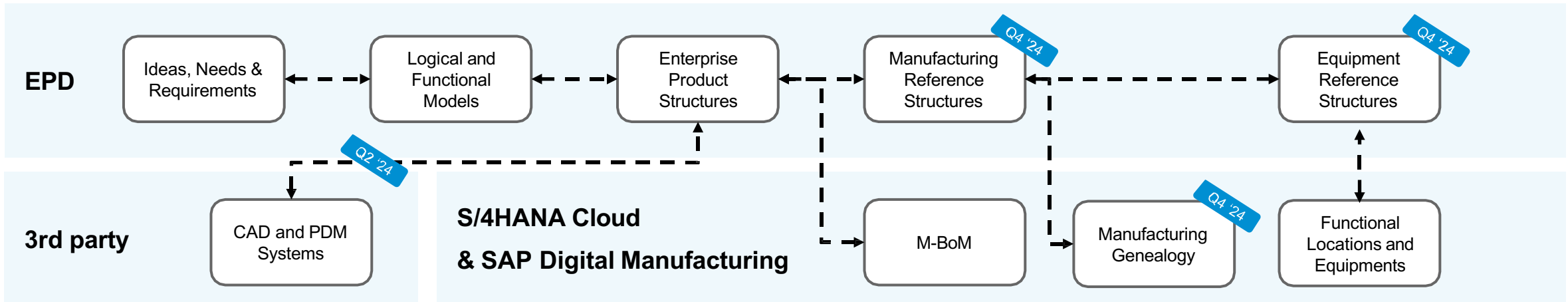


Product Management

Product Development

Manufacturing

Asset Management



Digital Thread for Process Industries

"I need to create requirements for the product brief"



"I need to develop specifications and recipes"



"I need to create an M-BoM and Production Instructions"



"I need to manufacture and deliver the product"

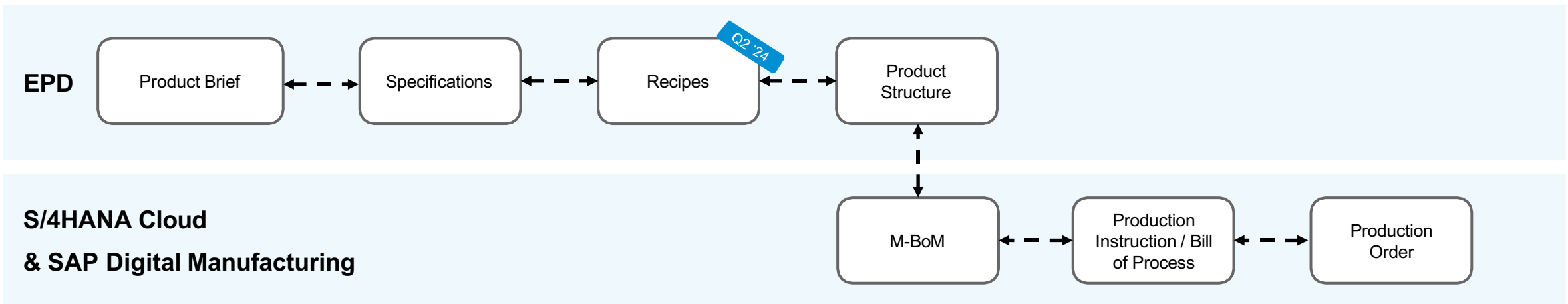


Product Management & Marketing

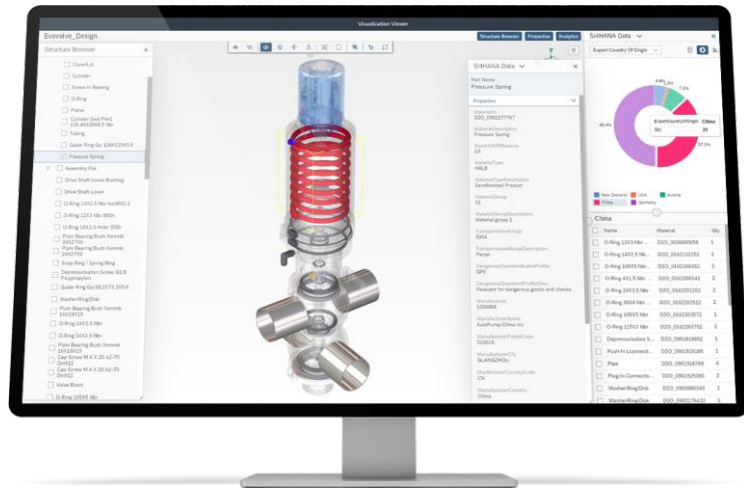
Product Development

Manufacturing Preparation

Manufacturing Execution



SAP Enterprise Product Development Summary



SAP Enterprise Product Development enables product centric organizations to define, develop, and deliver innovative and sustainable products

OBJECTIVE

Provide end-to-end business processes to manage product data for standard and configurable products.

CAPABILITIES

- Innovation & Requirements Management
- Systems Engineering
- Product Data Management
- Collaboration
- Intelligent Handover
- Visualization
- Insights (Analytics & Reporting)

INTEGRATIONS

- S/4HANA Cloud, public and private edition
- SAP Digital Manufacturing
- SAP Asset Performance Management

BENEFITS

Grow market share

Listen to the voice of customer and drive data-driven product improvement decisions.

Shorten time-to-market

Coordinate multi disciplinary teams and heterogenous systems to improve operational efficiencies.

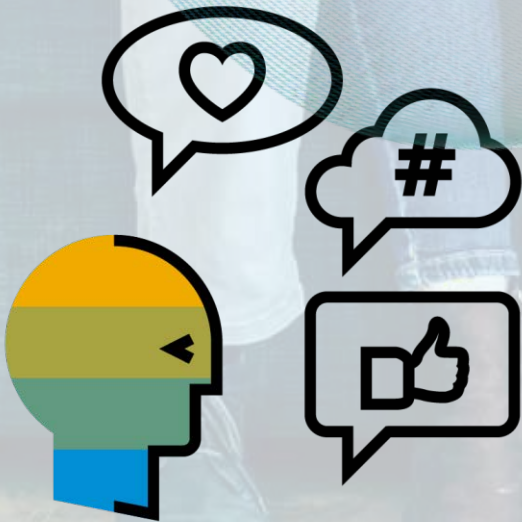
Reduce cost

Leverage workflows, collaborations and new technologies (e.g. AI) to reduce redundant work.

Ensure compliance, quality and sustainability

Integrate product data with expert systems to ensure all product requirements are fulfilled.

Q & A



SAP PLM
EXPERTS FORUM

SAP PLM Experts Forum (On-Premise/ Hybrid/ Cloud)

Public group

Active Group



Join the [SAP PLM Experts Forum \(On-Premise/Hybrid/Cloud\)](https://tinyurl.com/sapplm) group on LinkedIn and be a **part of the community!**

<https://tinyurl.com/sapplm>

Thank you :)

- SAP Enterprise Product Development



Share your valuable feedback!