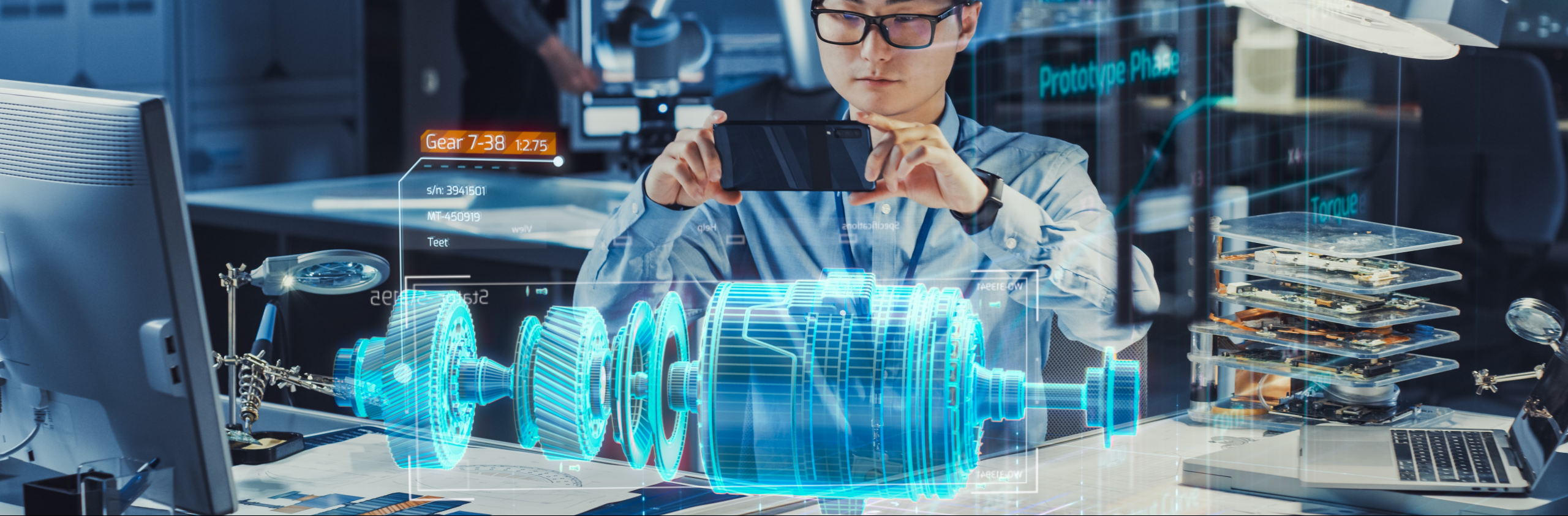




Managing complexity in Engineering with **SAP Teamcenter**

Lars Fossum

Global Center of Excellence, SAP Digital Supply Chain

Managing complexity in Engineering with **SAP Teamcenter**

SBN Conference 2022



Presentation outline

- 1** Industry trends and challenges
- 2** PLM and the digital thread
- 3** SAP Teamcenter
- 4** Industry use cases and demonstrations
- 5** Integration to S/4HANA
- 6** Summary and Q&A

Managing complexity in Engineering with **SAP Teamcenter**

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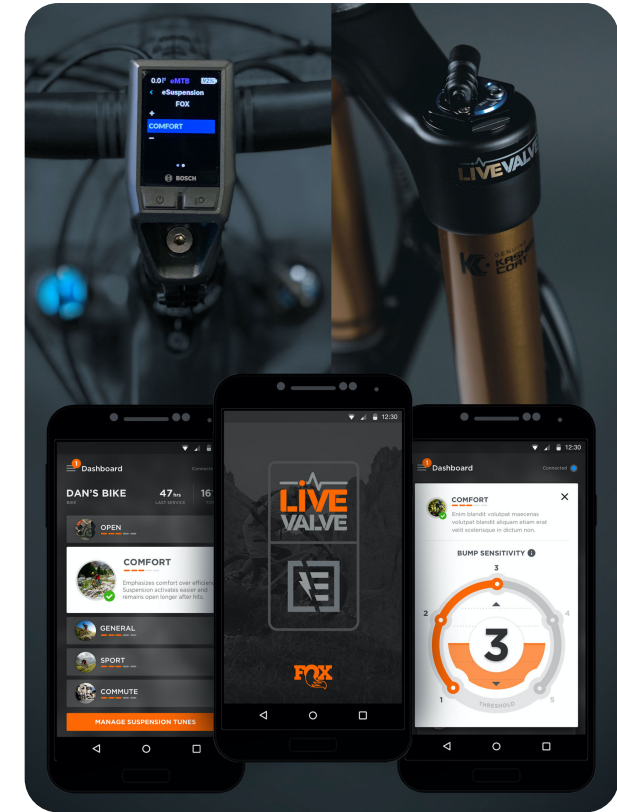


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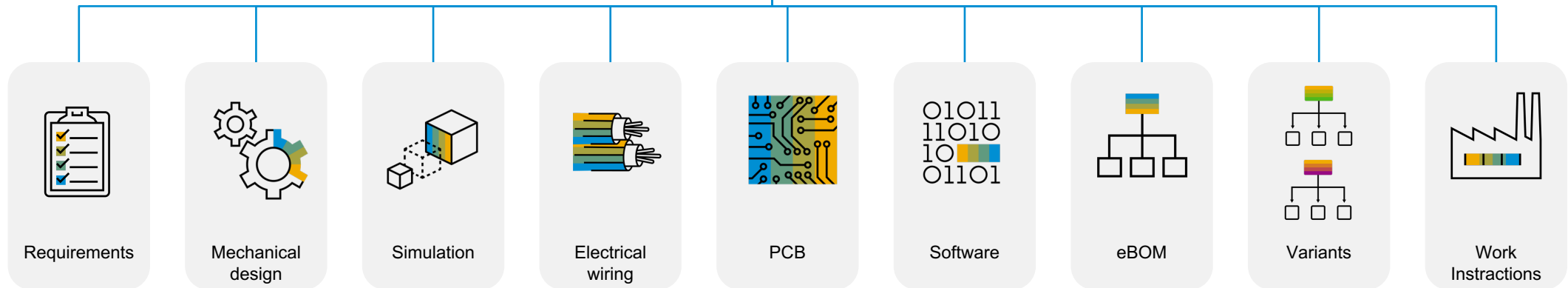
Explosion of complexity

Complexity



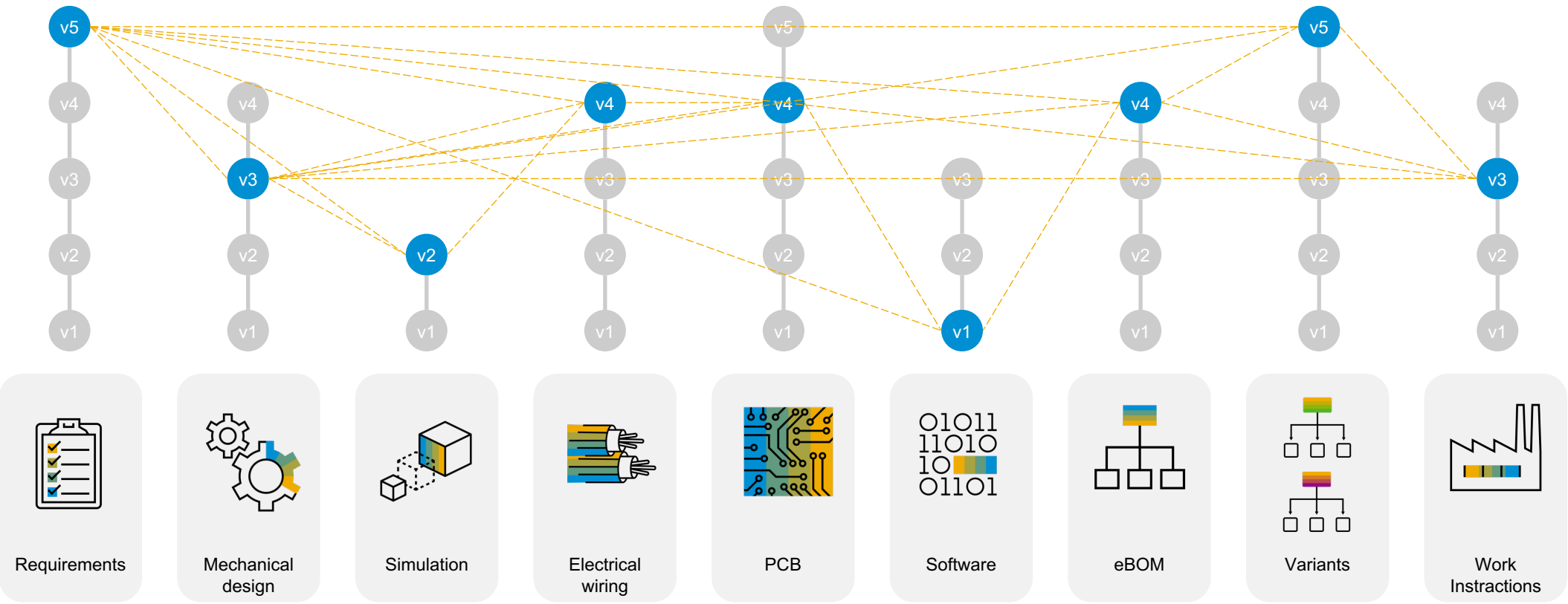
Explosion of complexity

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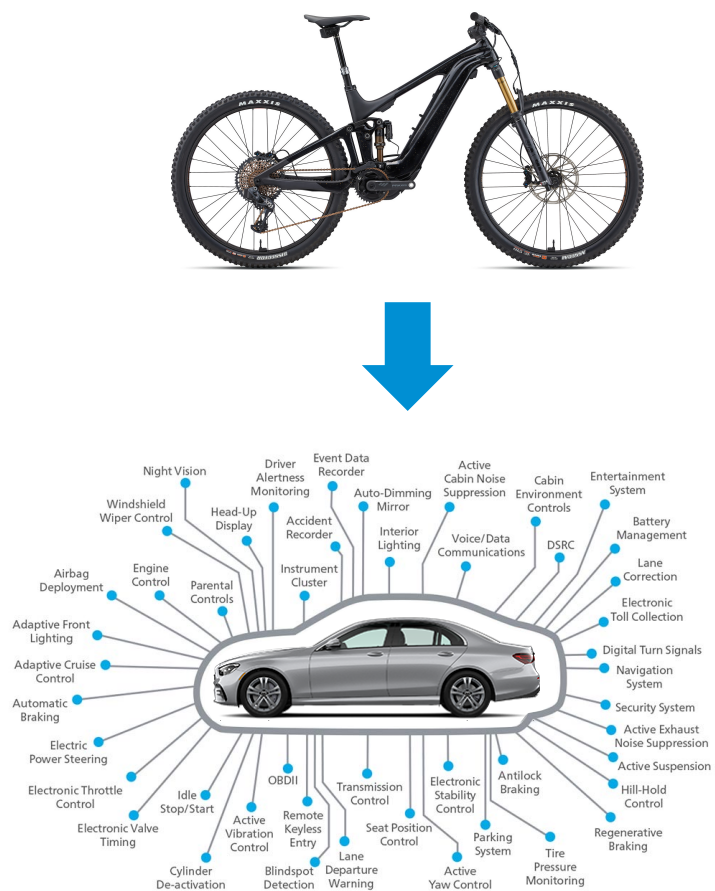


Product Complexity

Complexity



Explosion of complexity



Complexity



Todays Challenges in Product Development

Challenges



Increased product **complexity**



Silos of information



Frequent design **changes**



Changing product **requirements**



Increasing product **regulations**



Product **Individualization**



Reduced **Time**



Decrease **Cost**



Maintain **Quality**



More done by **less resources**



***Complexity cannot be removed,
but it can be managed***

Managing complexity in Engineering with **SAP Teamcenter**

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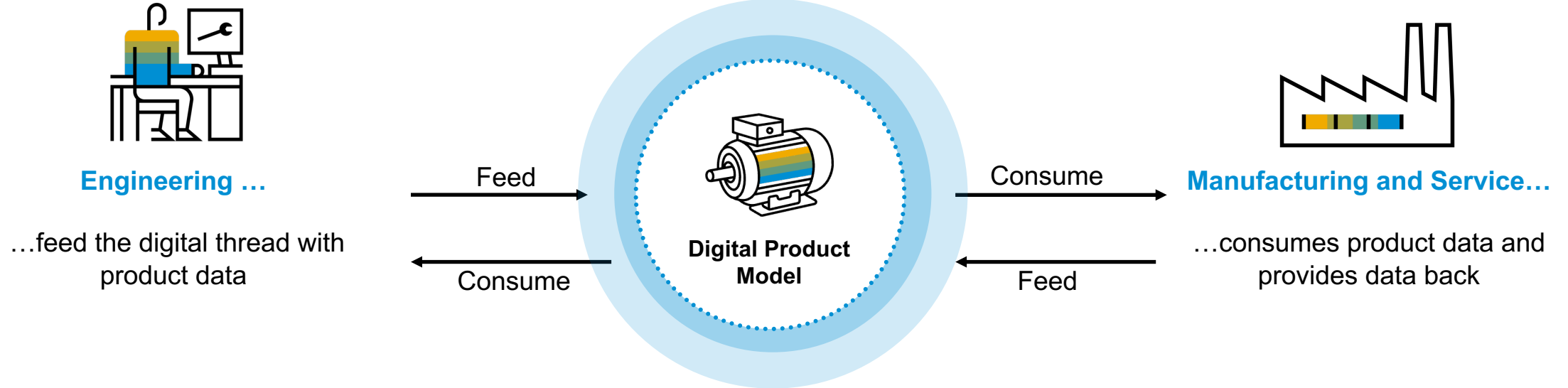


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End-to-end **digital thread** across the value chain

Our Mission: Deliver an integrated Digital Thread

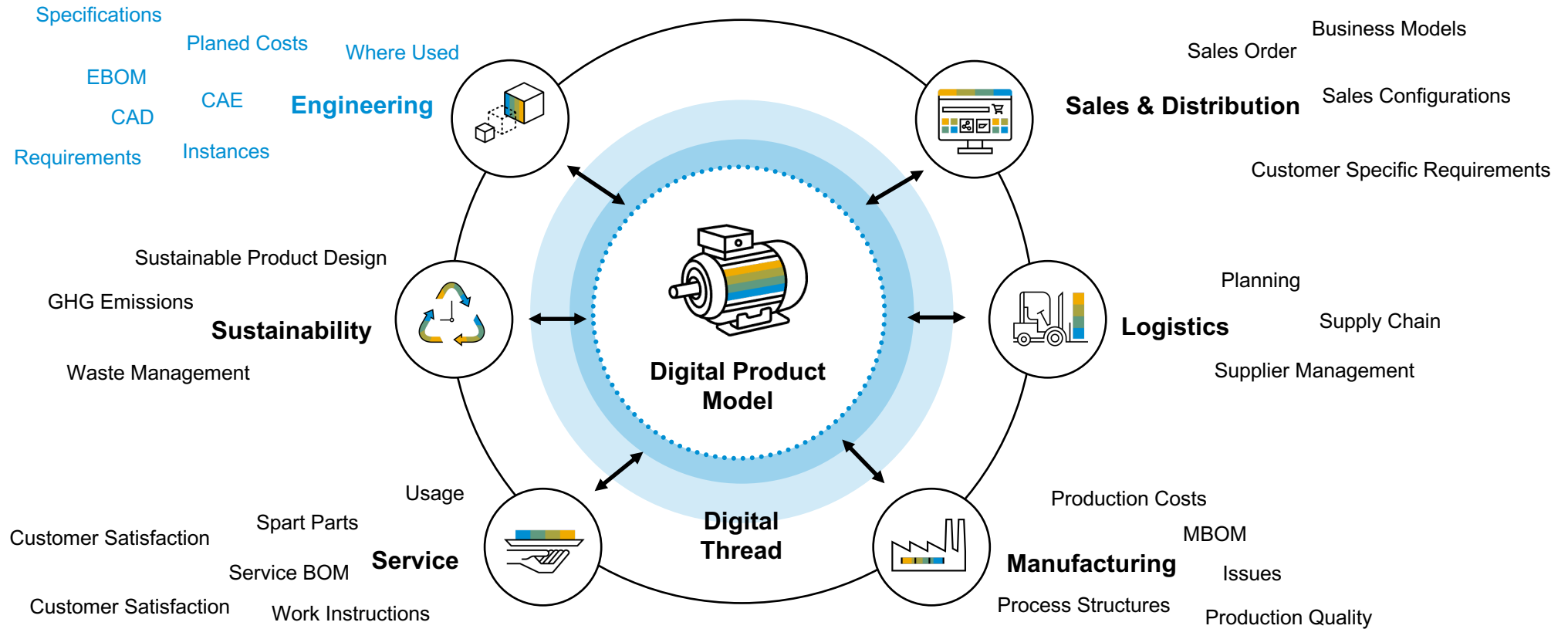


Product Lifecycle Management (PLM) is the corporate-wide management and control of all data and processes related to a product throughout its entire lifecycle.

PLM is the enabler for the **digital thread**

Building the Digital Thread

Our Mission: Deliver an integrated Digital Thread



Managing complexity in Engineering with **SAP Teamcenter**

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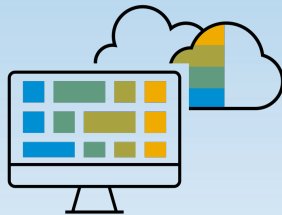
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SAP PLM solution portfolio

Solution Pillars

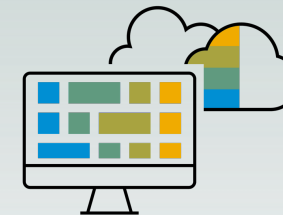
SAP Enterprise Product Development

as the system of differentiation & innovation for product development as a native Cloud PLM.



PLM in SAP S/4HANA

as the system of record and downstream business process integration, including SAP ECTR.
End2End PLM for Discrete and Process Industries



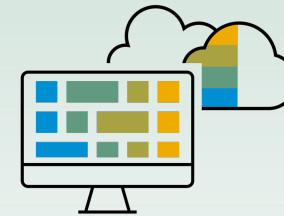
SAP Teamcenter by Siemens

to extend and complement the SAP PLM portfolio.
End2End PLM for the Discrete Industry

SAP S4/HANA Digital Core

SAP PLM solution portfolio

Solution Pillars



SAP Teamcenter by Siemens
to extend and complement the SAP PLM portfolio.
End2End PLM for the Discrete Industry

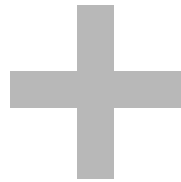
SAP S4/HANA Digital Core

SAP and Siemens partnership

The best of both worlds

SIEMENS

The world leader
in **product
lifecycle
management
software** and
industrial
automation



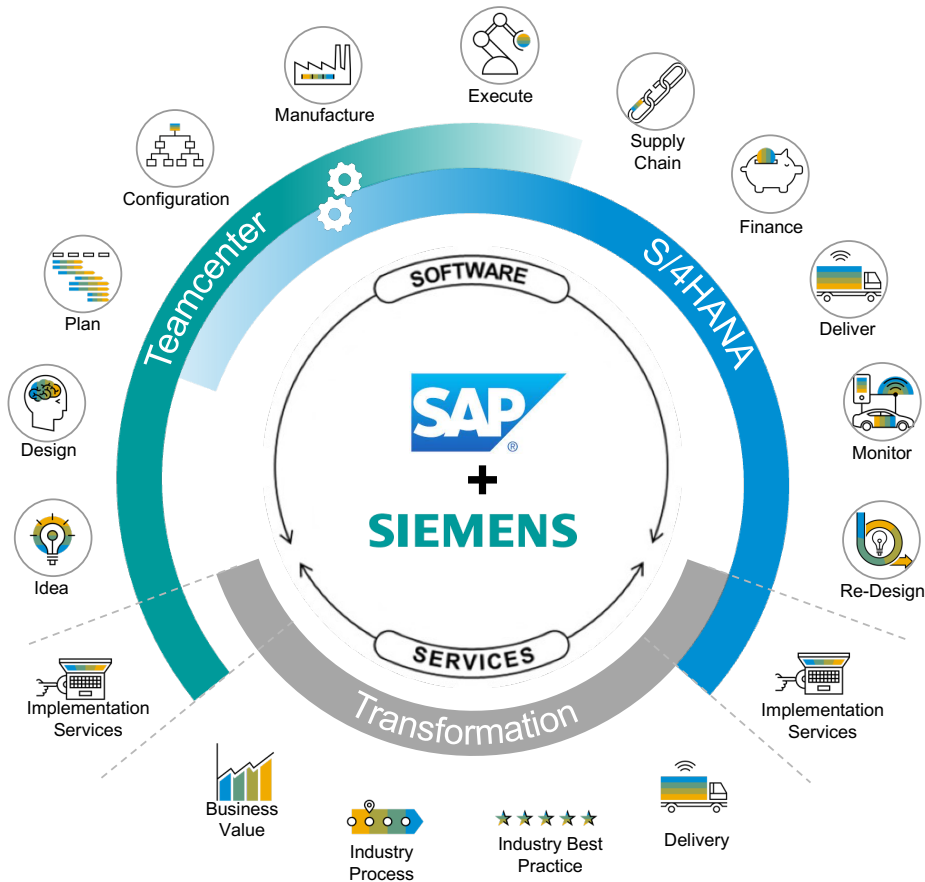
The world leader
in **enterprise
application
software** and
end-to-end
supply chain
solutions.



- Create a single digital thread
 - Break down the silos and improve collaboration
 - Share data downstream
 - Streamline processes and workflows across the enterprise
 - Establish a single source of truth with no manual data replication
 - Create a closed-loop product development process
- **Speed up Time to market**

SAP and Siemens partnership

The best of both worlds



How the Partnership works

- SAP to resell **Siemens Teamcenter** as part of the SAP PLM (Product Lifecycle Management) portfolio
- Now available as **Private Cloud Edition**
- A **new Teamcenter-SAP integration** is being developed
- SAP and Siemens remain committed to supporting existing installed base customers throughout their lifecycle

Managing complexity in Engineering with **SAP Teamcenter**

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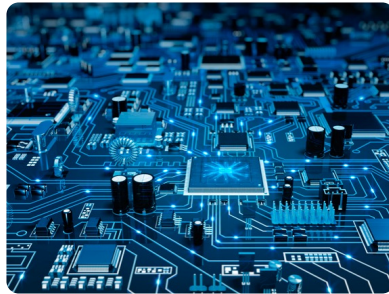
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SAP Teamcenter – Relevant Industries

Industries

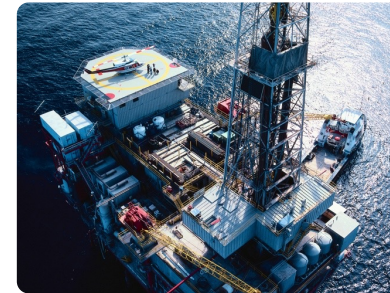
Discrete Manufacturing Industries

Managing the product data supporting MTS, MTO, CTO and ETO processes



Asset-intensive industries

Managing the engineering definition of the capital asset

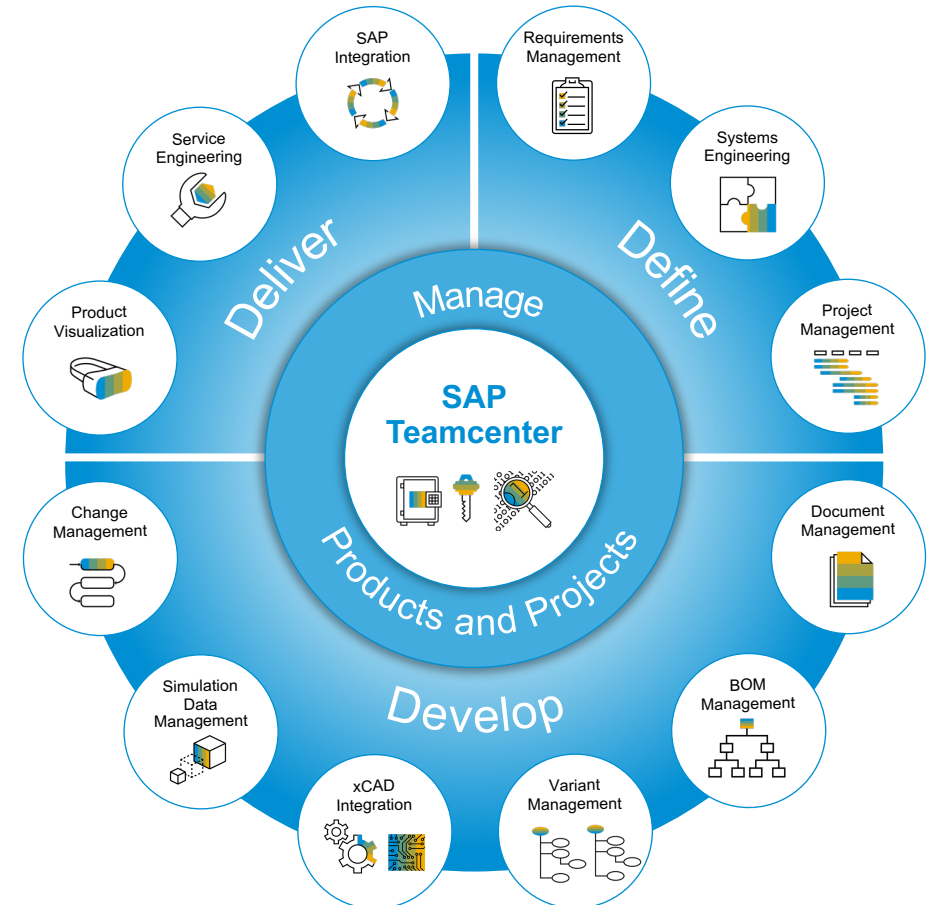
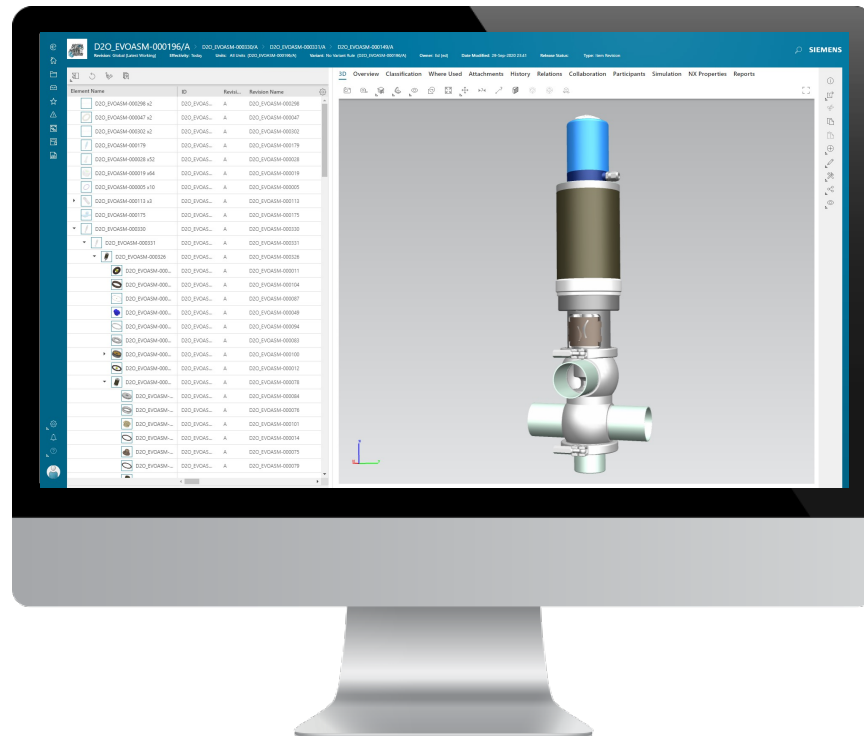


SAP Teamcenter by Siemens

Discrete Manufacturing Industries

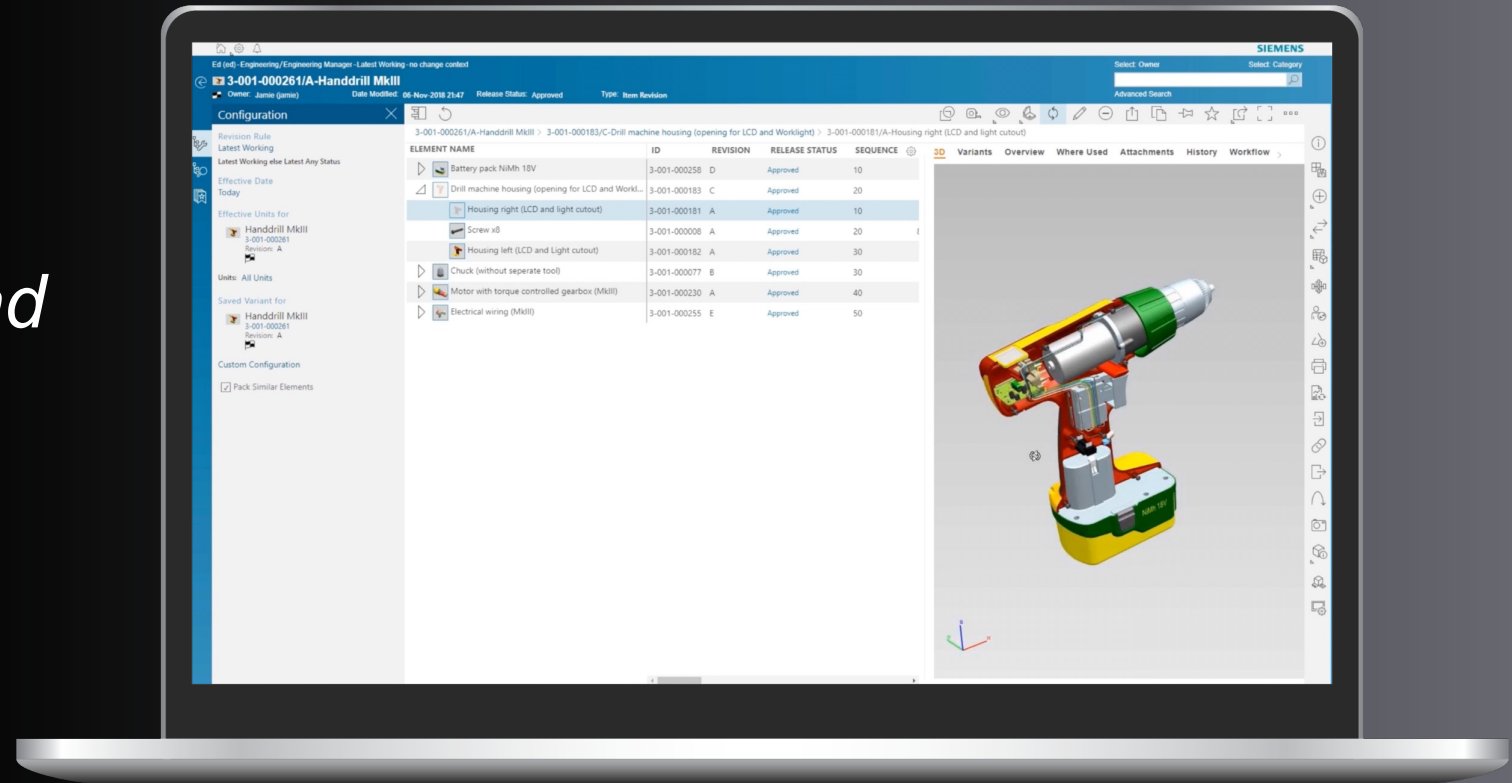
Main capabilities

SAP Teamcenter is a modern, **adaptable PLM system** that **connects people and processes**, across functional silos, with a **digital thread for innovation**.



SAP Teamcenter

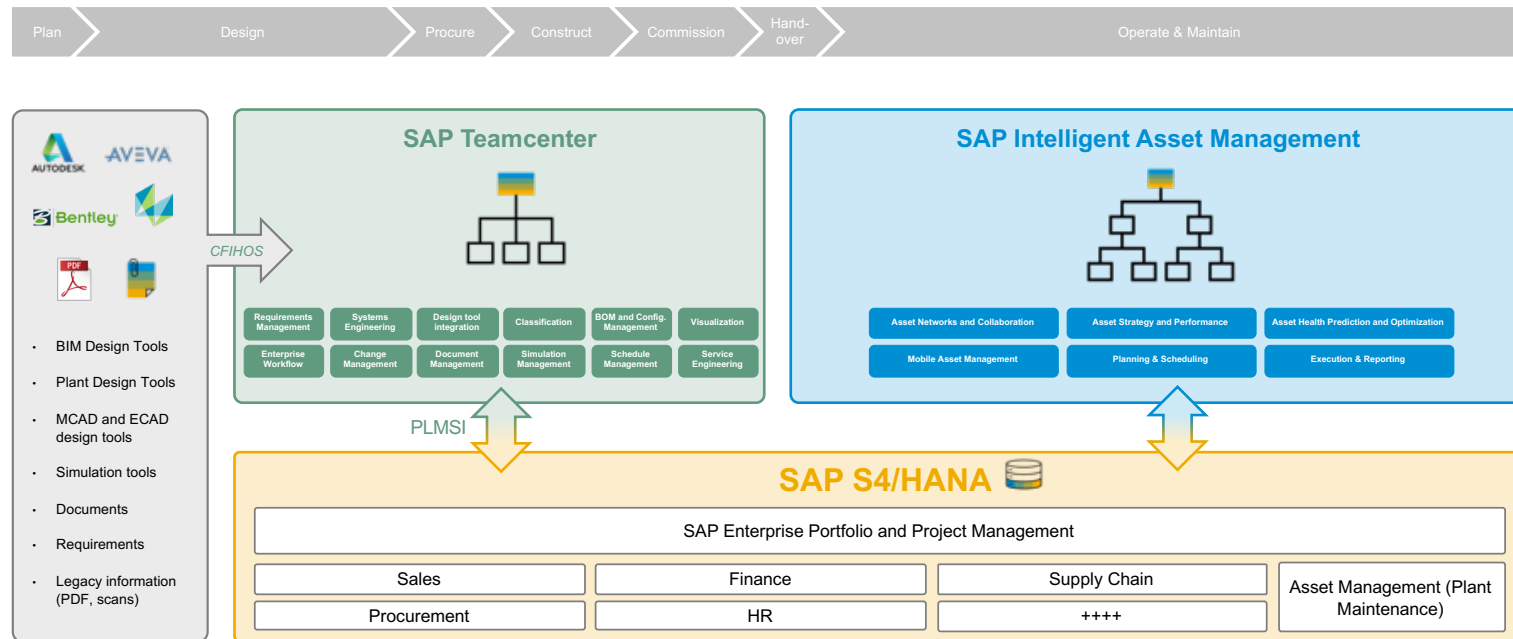
Navigating the digital thread



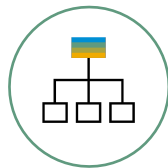
SAP solutions for Asset Intensive Industries

SAP Teamcenter for management of Plant Design and Engineering Information for Capital Assets

Main capabilities



SAP Teamcenter consolidates the engineering definition from multiple sources...



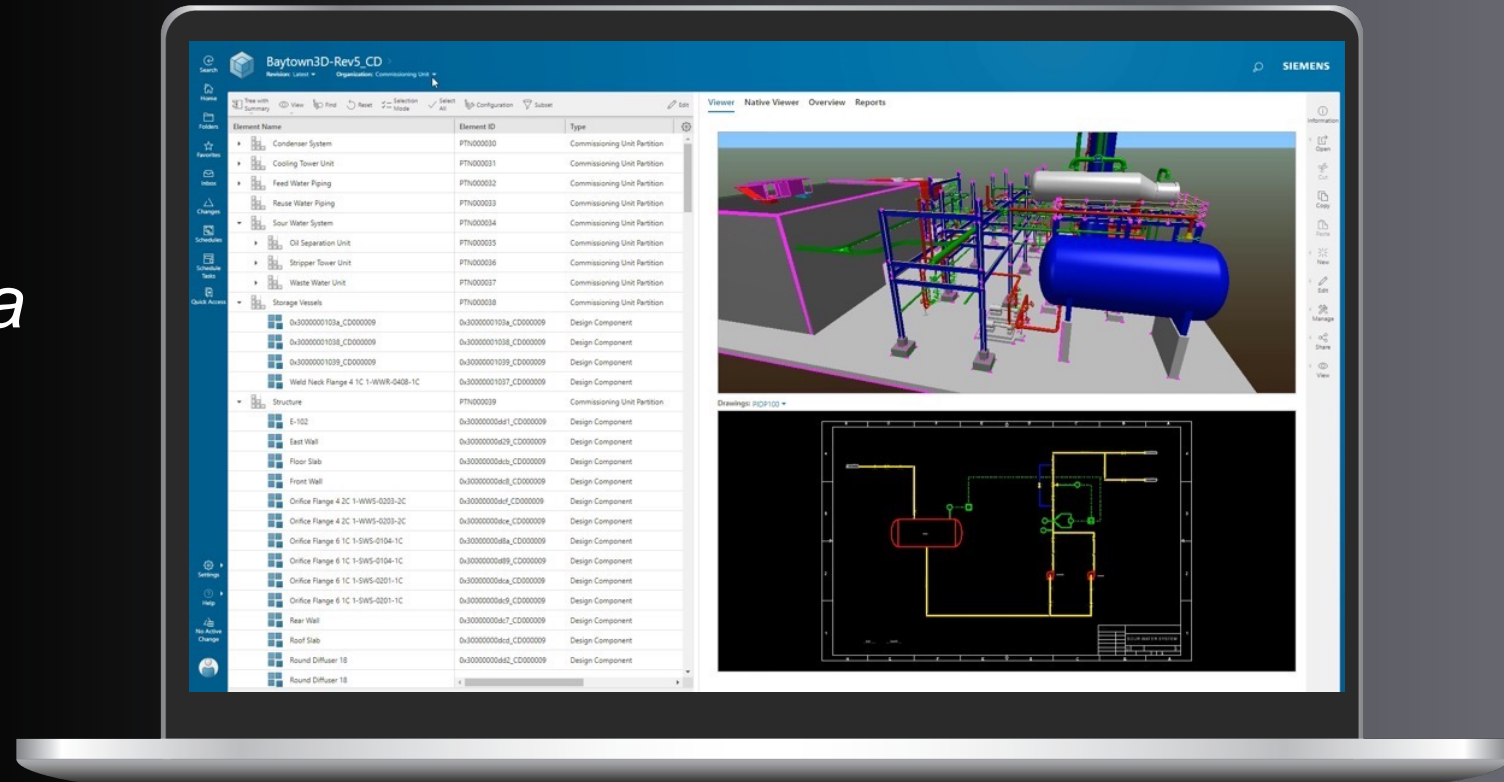
... making it possible to have one environment with data structures to completely represent the asset definition...



... capturing best practices, reducing handover times and providing the correct asset definition to ERP and maintenance system.

SAP Teamcenter

*Managing engineering data
for capital assets*



Managing complexity in Engineering with **SAP Teamcenter**

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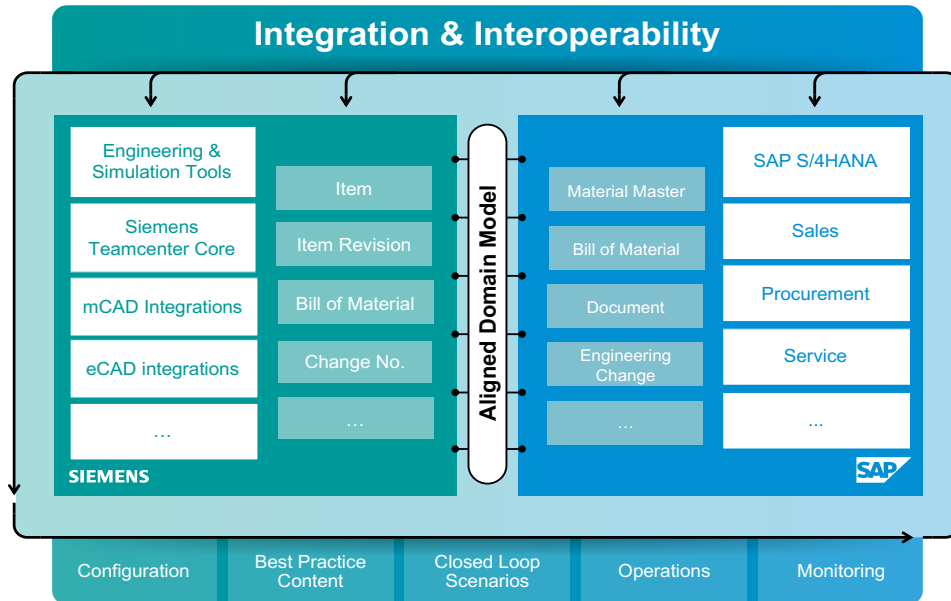
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Teamcenter and SAP integration

Business Outcomes

“PLM system integration is a game changer for the collaboration between engineering and the enterprise, offering **efficient, bi-directional digital product data flows**, embedded end-to-end and out of the box.”



Next Generation Characteristics



Enable the **end-to-end digital thread** with process driven integration on a state-of-the-art architecture.



Leverage **one common, extensible domain model** providing access to data across applications.

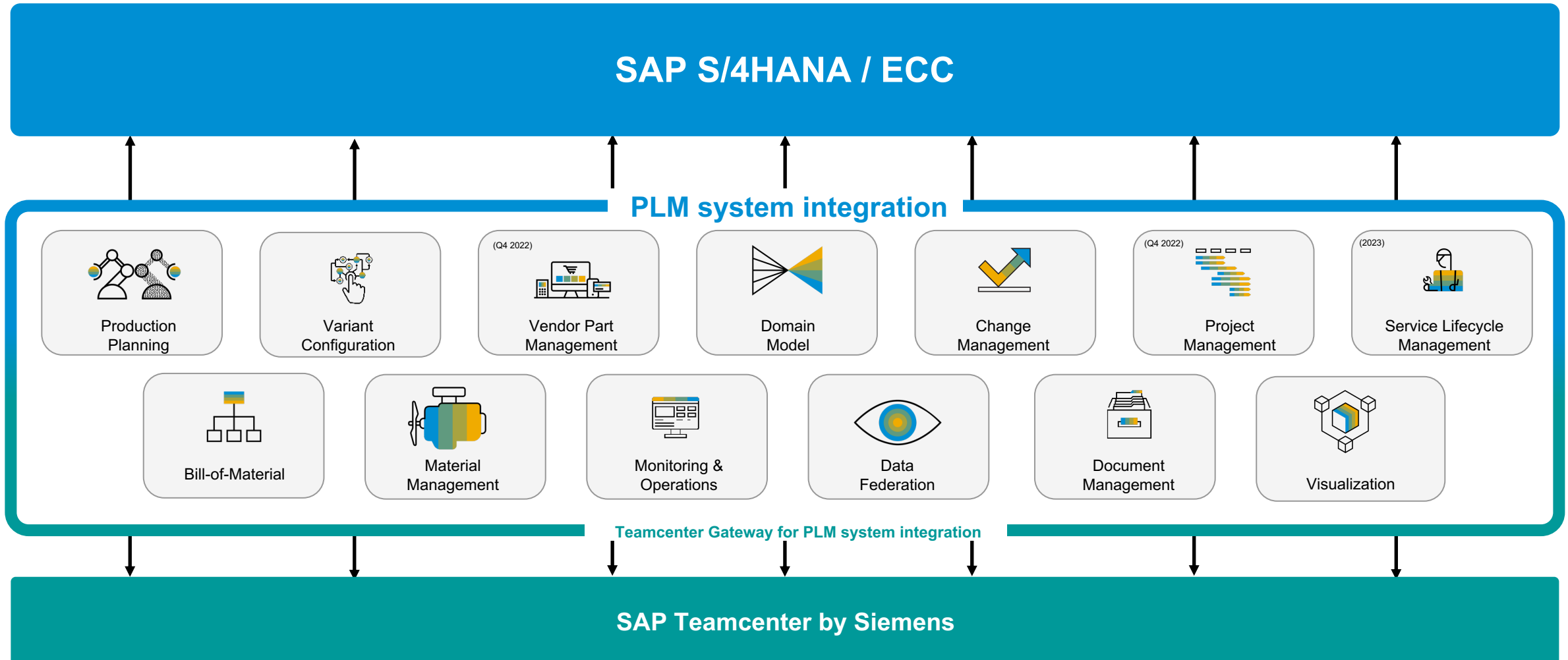


Run bi-directional **end-to-end business processes** across all engineering disciplines for the enterprise



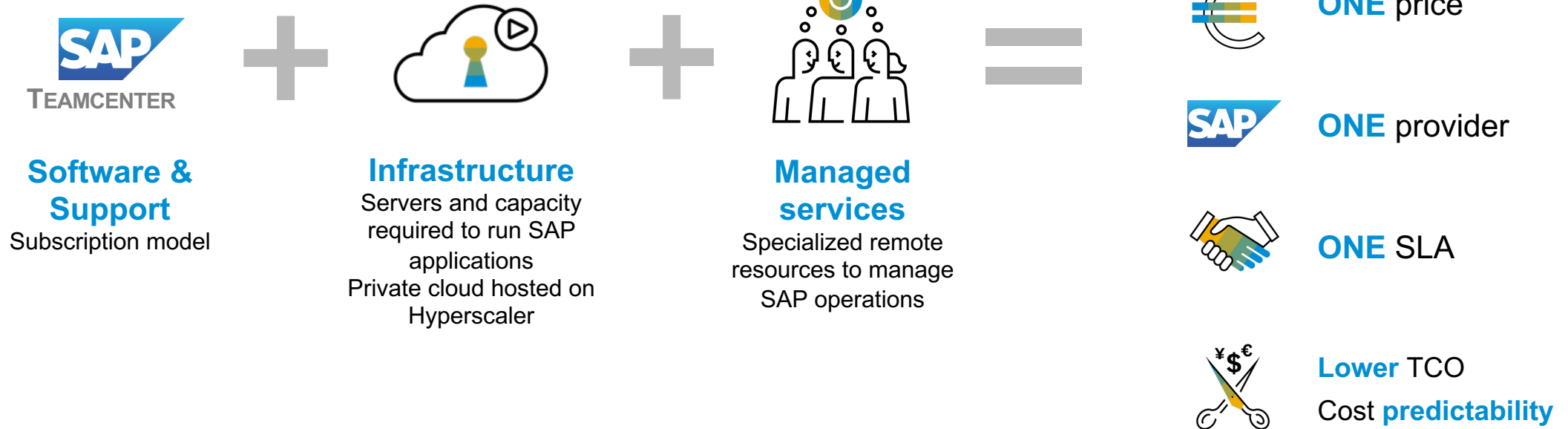
Use a reliable and **scalable Architecture** which supports high performance and efficient operations

Teamcenter and SAP integration – Capabilities and related processes



SAP Teamcenter, private cloud edition

Subscription model



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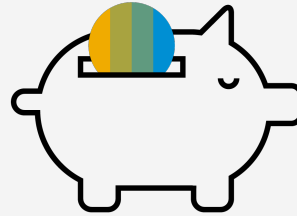
Key Takeaways

Manage complexity with SAP Teamcenter

Benefits



Get products to market quicker through increased engineering productivity through single-source of data and connected downstream processes



Lower R&D costs through increased standardization, re-use and efficient change management



Higher product quality through process control and data validation.

Right first time

Thank you.

Contact information:

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