



SAP S/4HANA Cloud 1905 Release Update

Dr. Gerhard Welker, SAP
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PUBLIC

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Agenda



Welcome

ONE SAP S/4HANA & SAP S/4HANA Cloud Positioning

SAP S/4HANA Cloud for Manufacturing & Supply Chain

- **Core Processes**
- **Key Highlights**
- **1905 Release Highlights**

Where to go for more information?

Q & A



Gerhard Welker

SAP S/4HANA Product
Management

Agenda

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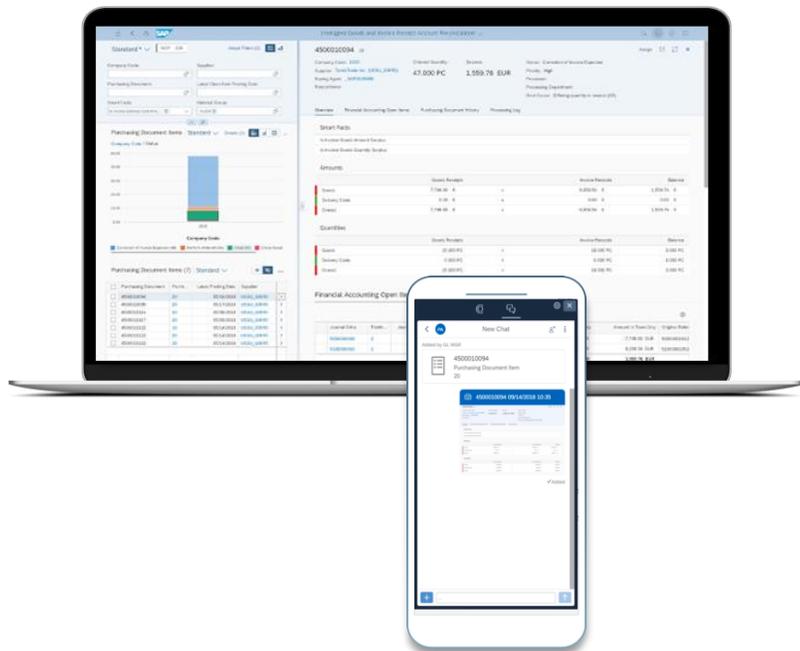
SAP S/4HANA and SAP S/4HANA Cloud

...will run your business different than before

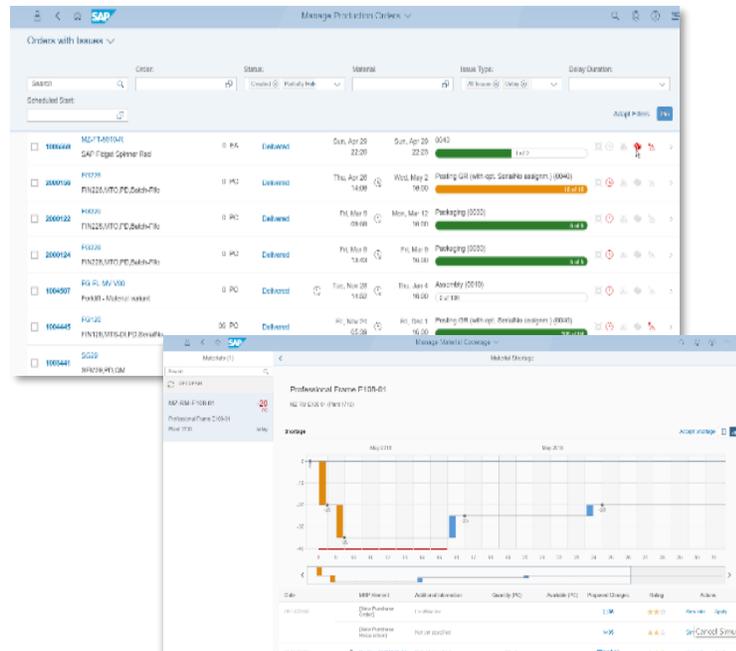
On any Device, use role based cockpits with digital assistant

Embedded analytics for simulation, prediction & insight-to-action

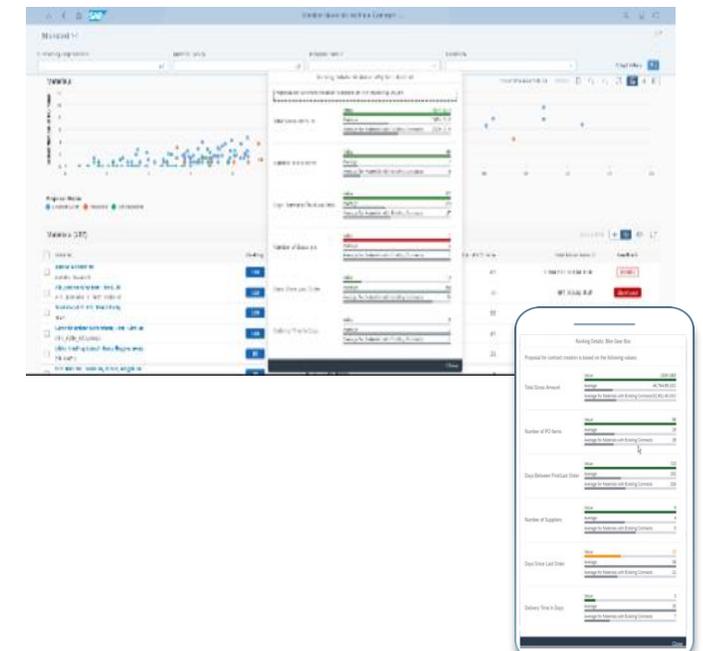
Machine learning for automated processing & decision support



Watch out Finance

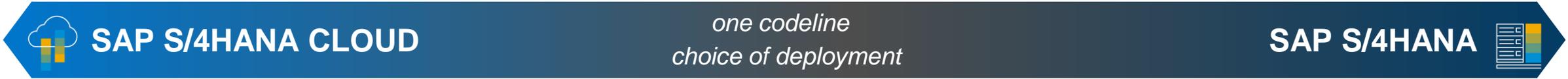


Watch out Inventory



Watch out Procure

ONE SAP S/4HANA

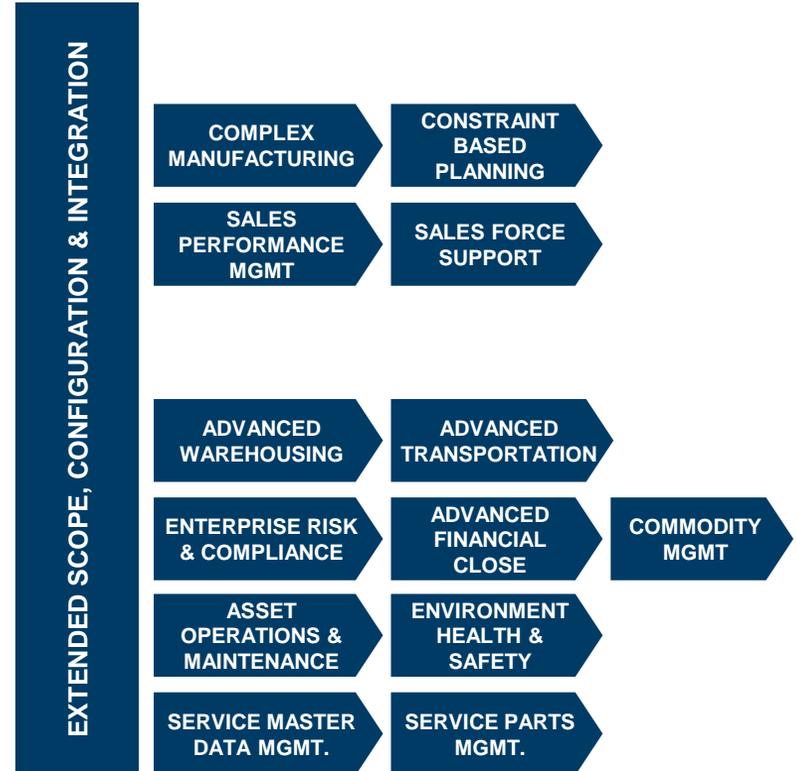
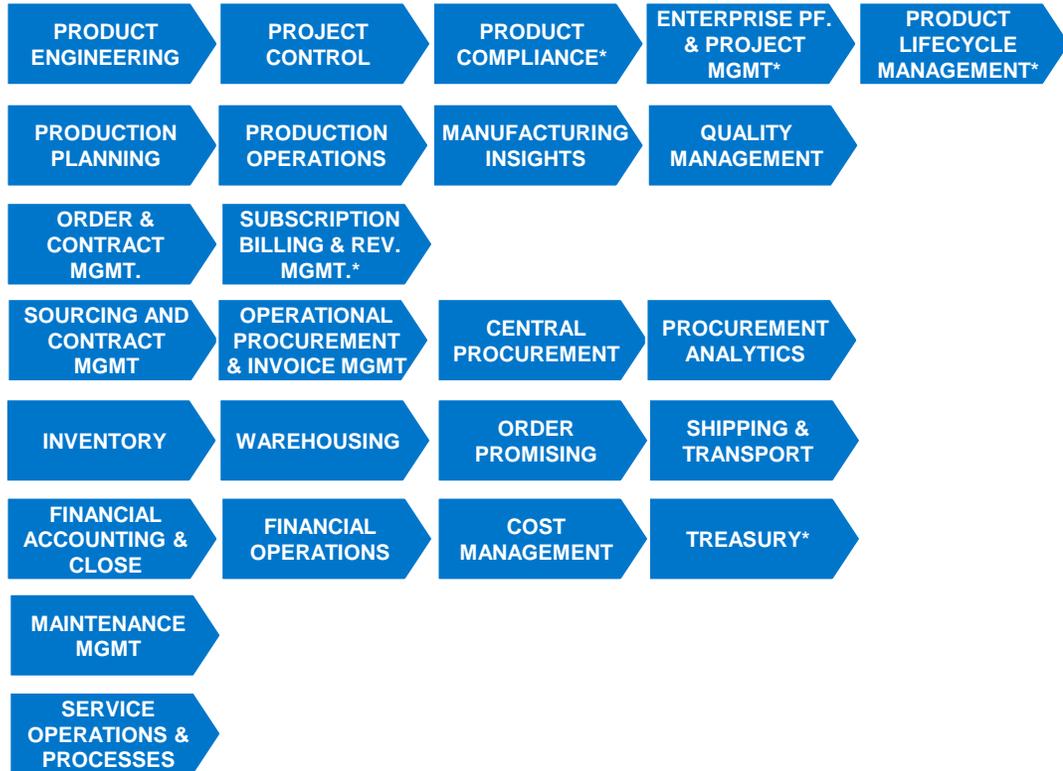


The most comprehensive, intelligent, and fully integrated Cloud ERP

The most complete, intelligent, and flexible ERP

Providing best practices for:

Enabling in addition:



SAP S/4HANA Release Strategy

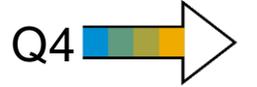
(2018–2019 and definition of deliveries)



Quarterly innovation cycle

2018

2019



SAP S/4HANA
Cloud 1808



SAP S/4HANA
Cloud 1811



SAP S/4HANA
Cloud 1902



SAP S/4HANA
Cloud 1905



SAP S/4HANA
Cloud 1908



SAP S/4HANA
Cloud 1911



SAP S/4HANA 1809
FPS 00

SAP S/4HANA 1809
FPS01

SAP S/4HANA 1809
FPS02



SAP S/4HANA 1909
SPS 00

Yearly innovation cycle
with quarterly SP stacks



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SAP S/4HANA Cloud for Manufacturing & Supply Chain

Core Processes

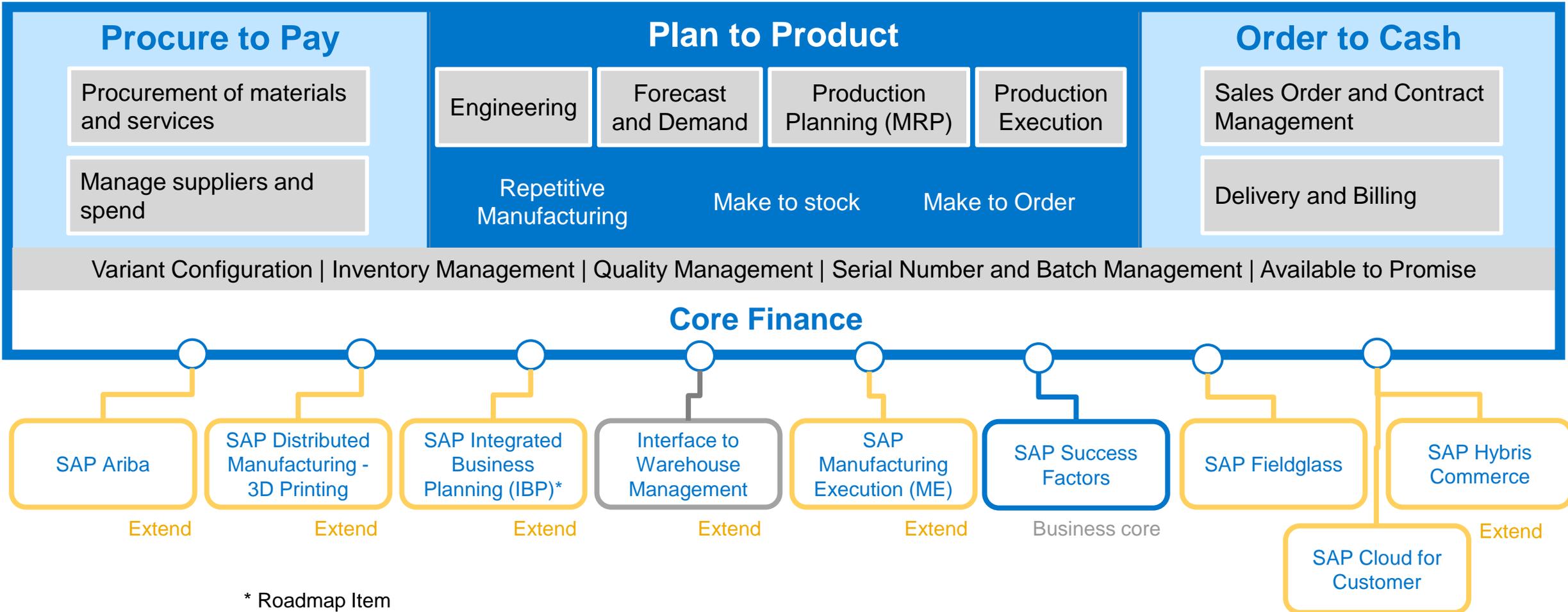


SAP S/4HANA Cloud for manufacturing industries

End 2 End Corporate ERP Processes

- ✓ Core ERP Processes
- ✓ Consistent in itself
- ✓ SAP Best Practices
- ✓ Balance between standardization and flexibility

Business core



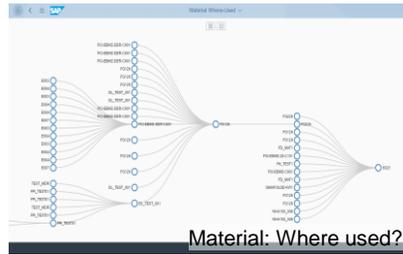
* Roadmap Item

SAP S/4HANA Cloud: Manufacturing Scope overview

PRODUCTION ENGINEERING

Change Manufacturing BOM

Mass change Manufacturing BOM

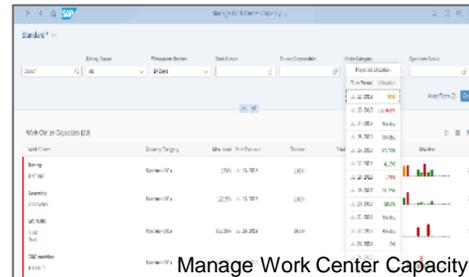


PRODUCTION PLANNING

Run Material Requirements Planning (MRP) to initiate Direct Procurement & Planned Production Orders. Plan & Evaluate Capacity. Use Demand Driven MRP to analyze and optimize Stock strategically

Material Requirements Planning

Capacity Planning

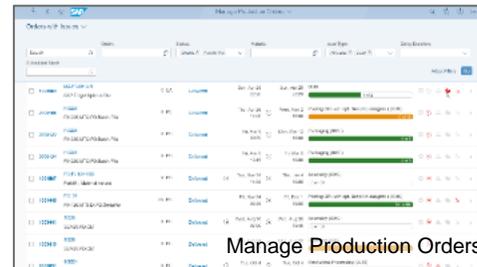


Demand Driven MRP*

PRODUCTION OPERATIONS

Run Manufacturing Operations in several industry variations & extensions, fully integrated with Supply Chain & Finance

Make to Stock Discrete



Make to Stock Process

Make to Stock with Variant Config

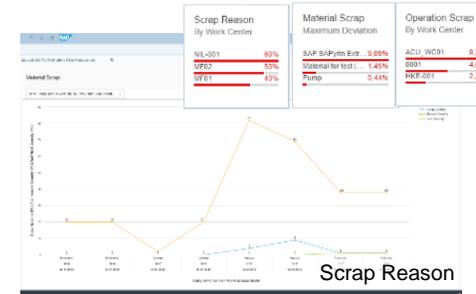
Make to Stock Repetitive

Make to Order Discrete

Make to Order with Variant Config

MANUFACTURING INSIGHTS

Use Embedded Analytics on Manufacturing relevant items, like Stock Overviews, MRP, Capacity and QM Lists & Dashboards



QUALITY MGMT.

Use Integrated Quality Management to plan Inspections, run checks and improve overall Manufacturing output.



Process Enhancements

Batch Management

Subcontracting

Subsidiary to Headquarter

Rework Processing

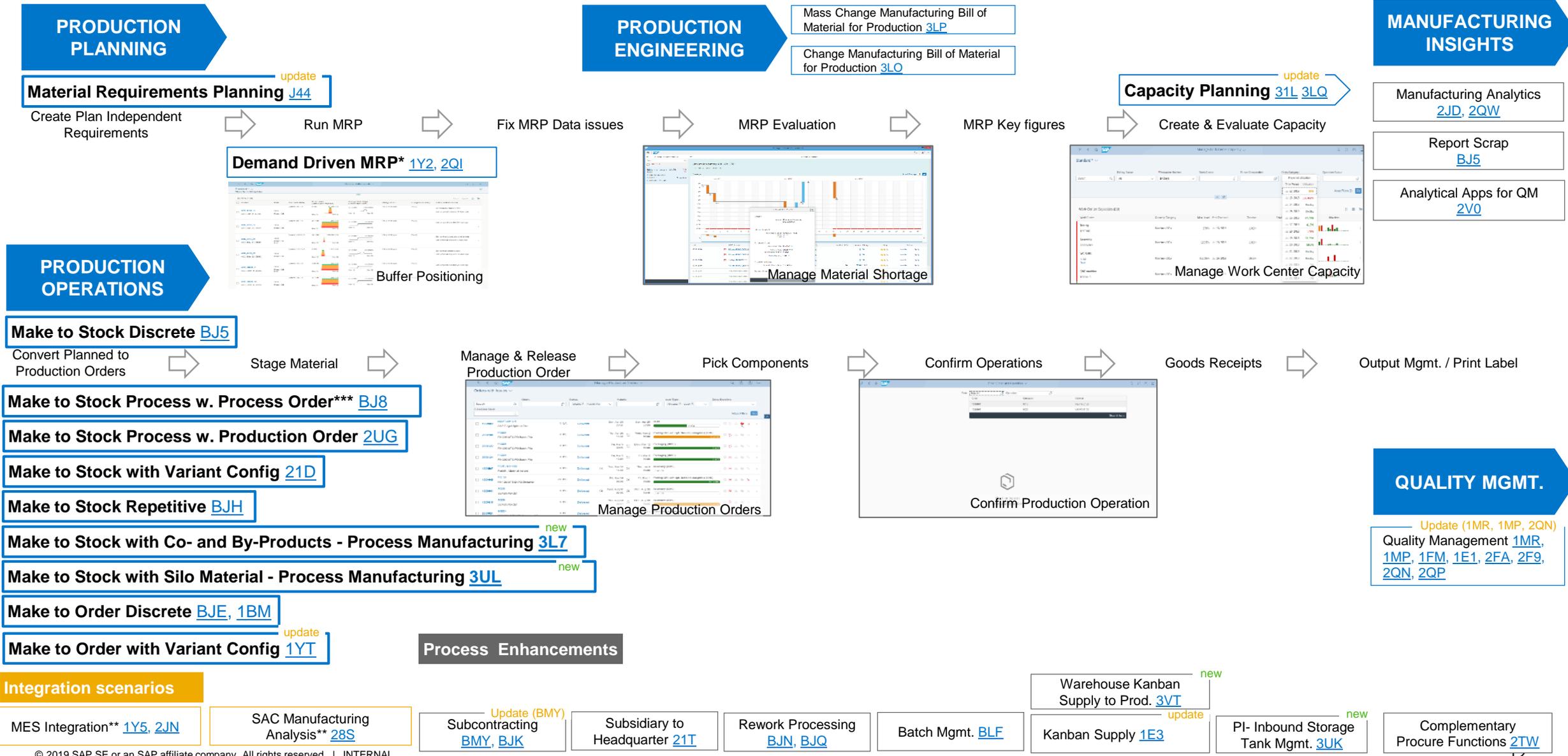
Complementary Procurement Functions

Kanban Supply

MES Integration**

SAP Analytics Cloud Manufacturing Analysis**

SAP S/4HANA Cloud: Manufacturing Scope in Detail



PRODUCTION PLANNING

Material Requirements Planning ^{update} **J44**

Create Plan Independent Requirements



Run MRP



Fix MRP Data issues



MRP Evaluation

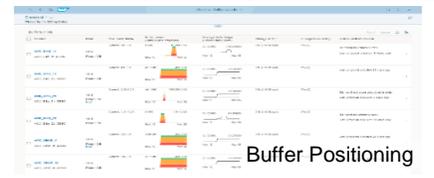


MRP Key figures



Create & Evaluate Capacity

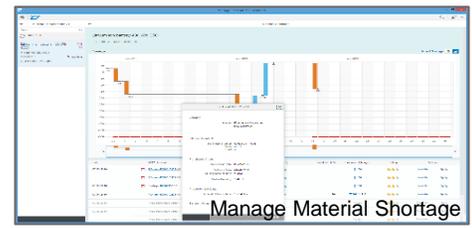
Demand Driven MRP* **1Y2, 2QI**



PRODUCTION ENGINEERING

Mass Change Manufacturing Bill of Material for Production **3LP**

Change Manufacturing Bill of Material for Production **3LO**



MANUFACTURING INSIGHTS

Manufacturing Analytics **2JD, 2QW**

Report Scrap **BJ5**

Analytical Apps for QM **2V0**

PRODUCTION OPERATIONS

Make to Stock Discrete **BJ5**

Convert Planned to Production Orders



Stage Material



Manage & Release Production Order



Pick Components



Confirm Operations



Goods Receipts



Output Mgmt. / Print Label

Make to Stock Process w. Process Order*** **BJ8**

Make to Stock Process w. Production Order **2UG**

Make to Stock with Variant Config **21D**

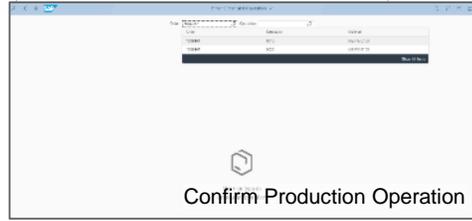
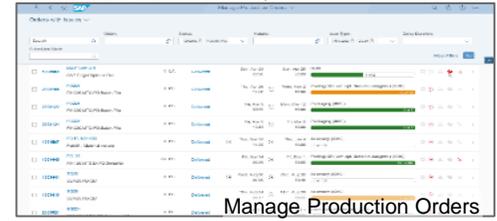
Make to Stock Repetitive **BJH**

Make to Stock with Co- and By-Products - Process Manufacturing **3L7** ^{new}

Make to Stock with Silo Material - Process Manufacturing **3UL** ^{new}

Make to Order Discrete **BJE, 1BM**

Make to Order with Variant Config **1YT** ^{update}



QUALITY MGMT.

^{Update (1MR, 1MP, 2QN)}
Quality Management **1MR, 1MP, 1FM, 1E1, 2FA, 2F9, 2QN, 2QP**

Process Enhancements

Integration scenarios

MES Integration** **1Y5, 2JN**

SAC Manufacturing Analysis** **28S**

^{Update (BMY)}
Subcontracting **BMY, BJK**

Subsidiary to Headquarter **21T**

Rework Processing **BJN, BJQ**

Batch Mgmt. **BLF**

Warehouse Kanban Supply to Prod. **3VT** ^{new}

^{update}
Kanban Supply **1E3**

^{new}
PI- Inbound Storage Tank Mgmt. **3UK**

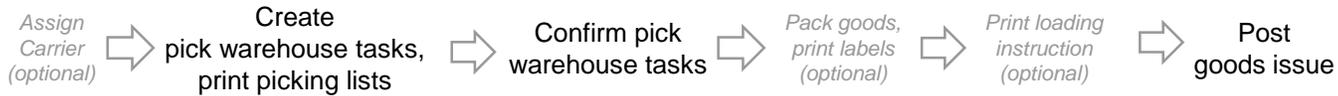
Complementary Procure Functions **2TW**

SAP S/4HANA Cloud: Supply Chain Scope in Detail (1/2)

WAREHOUSING

Warehouse Outbound Processing [3BS](#) update

Warehouse Ad-hoc Goods Issue [3BT](#)

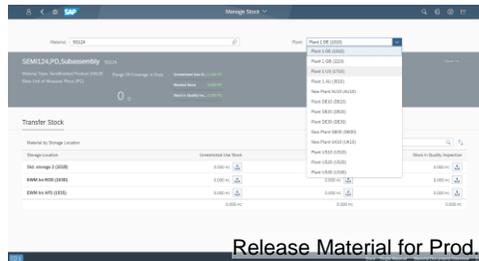


Just-In-Time Supply to Customer from Stock [2EM](#) new

Warehouse Production Integration [3DV](#)

Goods Issue for Production

- Release production order
- Material staging for production order



Release Material for Prod.

Third-Party WM System Integr. [1ZQ](#) update

Support integration scenarios for

- Procurement (Delivery & Return)
- Stock Transfers
- Sales (Delivery & Return)

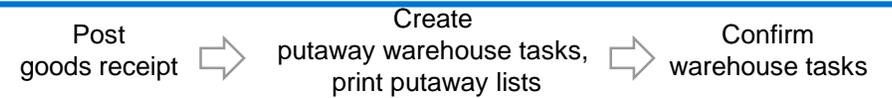
Third-Party WM System Integr. – Prod. Scen. [2RU](#)

- PO processing for semi-finished goods **w/o auto. backflush**
- PO processing for semi-finished goods **with auto. backflush**

Warehouse Kanban Supply into Production [3VT](#) new

EWM Integration

Warehouse Inbound Processing [3BR](#)



Warehouse Internal Repacking [3BW](#)

- Pack stock
- Repack stock
- Unpack stock

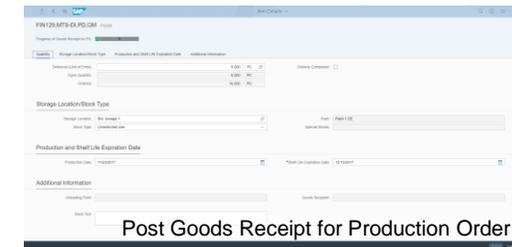
Quality Management in Warehousing [3MO](#)



Resource Management in Warehousing [3W0](#) new

Goods Receipt from Production

- Create inbound delivery for production order
- Create handling units, print labels



Post Goods Receipt for Production Order

Batch Management [2VN](#)

Del.-Based Production Integr. [2VM](#)

Outbound Processing [2VK](#)

Warehouse Stock Handling [2YL](#)

Customer Returns [2VO](#)

Inbound Processing [2VJ](#)

Stock Transport Orders [2VL](#)

SAP S/4HANA Cloud: Supply Chain Scope in Detail (2/2)

INVENTORY

Core Inventory Management [BMC](#)

Cross-Plant Transfer Posting [1P7](#)

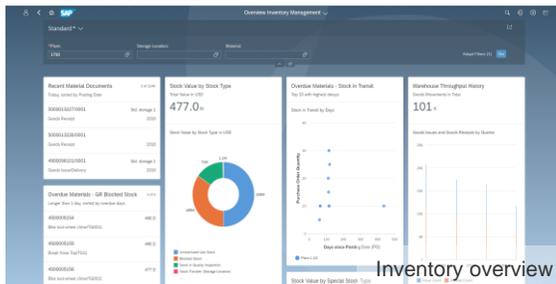
Stock Transfer with & without Delivery [BME & BMH](#)

Warehouse Posting Changes [3BU](#)

Predictive Analytics Model Training: Stock in Transit [2ON](#) new

Inventory Actions

- Stock Transfer in one or two steps
- Post Goods Receipt Without Reference
- Block & Unblock Material
- Scraping: Customer Returns and General Stock
- Stock Overview



Inventory Count & Adjustment [BML](#)

Warehouse Physical Inventory [3BX](#)

Inventory Actions

- Create physical inventory documents
- Print physical inventory documents
- Execute physical count or recount
- Enter physical count
- List and post physical count differences

Inventory Insights

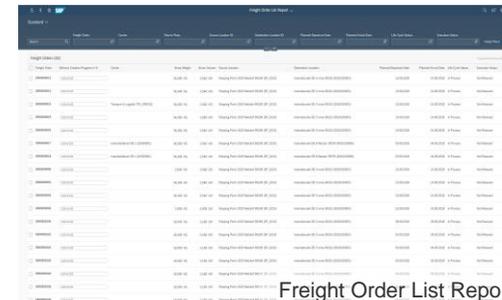
- Physical Inventory Document Object Page
- Physical Inventory Analysis



SHIPPING & TRANSPORTATION

Order-based Transport. Consolidation [3EP](#)

- Create/change SO for automatic freight unit creation/change
- Monitor freight unit
- **Transfer freight unit to decentral. TM system**
- **Receive freight order from decentral. TM system**
- Monitor freight order
- Trigger delivery creation from freight order



ORDER PROMISING

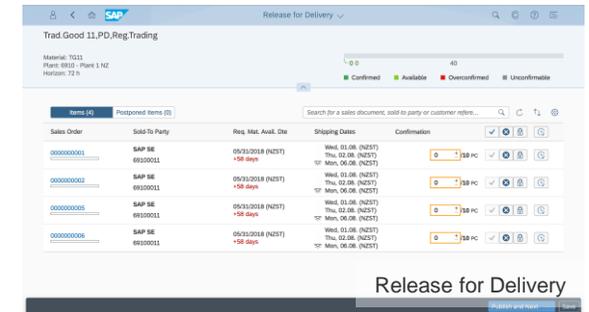
Basic ATP Processing [2LN](#)

- Maintain, schedule, and monitor BOP run
- Run ATP check with product availability check within e.g. Sell from Stock after sales order creation

ADVANCED ORDER PROMISING

Adv. ATP Processing* [1JW](#)

- Maintain product allocation and manage product allocation planning data
- Maintain, schedule, and monitor BOP run
- Run release for delivery to change SO confirmations before releasing to delivery
- Run advanced ATP check with product availability check and product allocation
- Perform alternative-based Confirmation (ABC) ATP

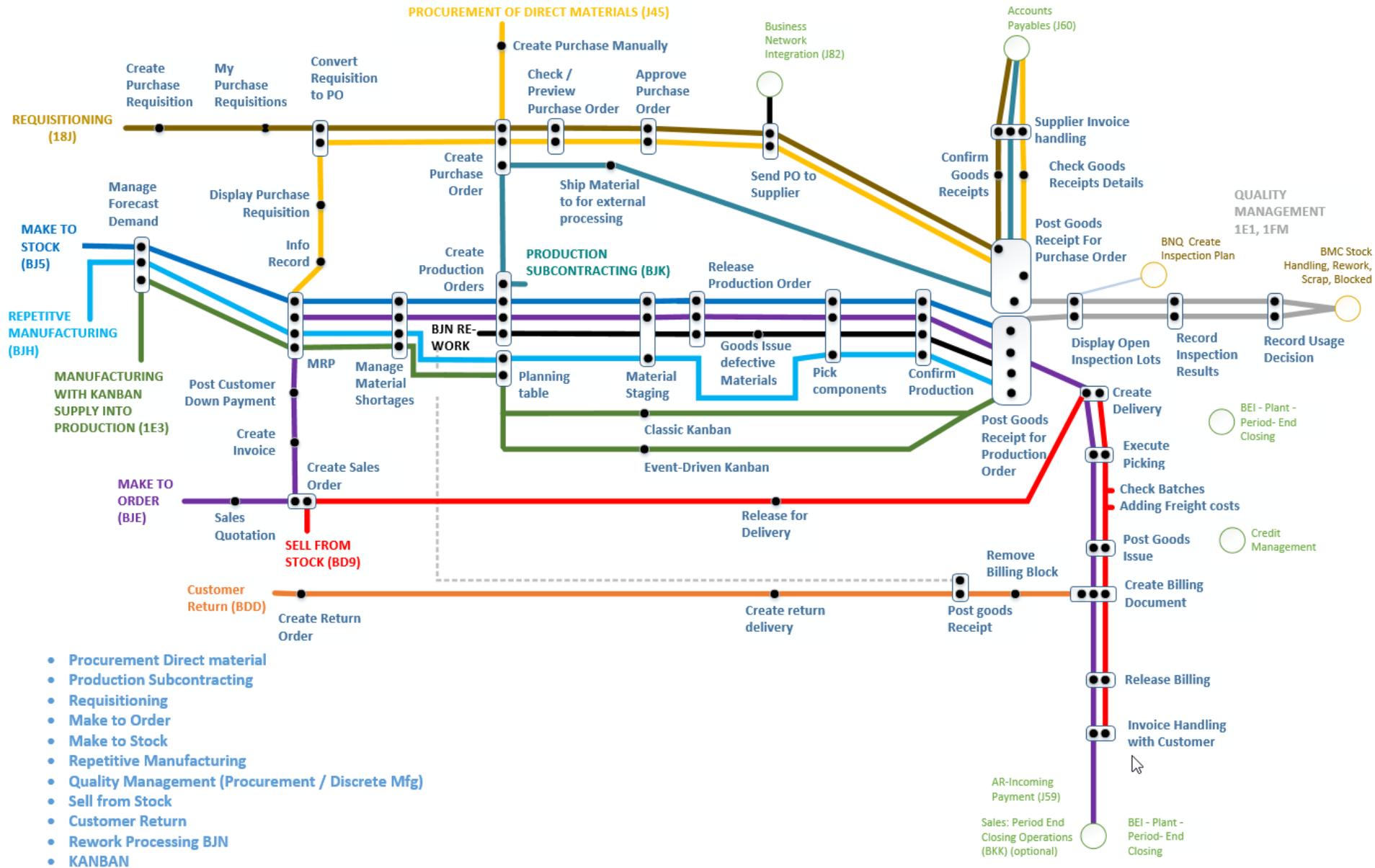


Batch Management [BLF](#)

Subcontracting [BMY](#) update

SAP Fiori Analytical Apps for Inventory and Warehouse Management [BGG](#)

Core manufacturing processes with procurement and sales



SAP S/4HANA Manufacturing: Fiori Apps

Inventory Analyst

- Inventory KPI Analysis
- Inventory KPI Analysis Reuse Library
- Stock Champion

Material Planner - External Procurement

- Create Planning File Entries
- Display MRP Key Figures
- Display MRP Master Data Issues
- Maintain PIRs **UP 1905**
- Manage Change Requests
- Manage PIRs
- Schedule MRP Runs

Production Operator / Production Engineer - Discrete Manufacturing

- Confirm Production Operation
- Reuse Library for Components in Worker UI
- Set Kanban Container Status

Production Planner

- Buffer Positioning
- Demand-Driven Replenishment
- Excess Component Consumption **UP 1905**
- Manage Buffer Levels **UP 1905**
- Manage External Requirements
- Manage Internal Requirements
- Manage Material Coverage
- Manage Production Orders or Process Orders
- Manage Work Center Capacity
- Mass Adjust Buffers
- Mass Maintenance of Products (DD)
- Material Scrap **UP 1905**
- Monitor Demand-Driven Replenishment
- Monitor External Requirements
- Monitor Internal Requirements
- Monitor Material Coverage - Net and Individual Segments
- Monitor Material Coverage - Net Segments (obsolete)
- Monitor Material Coverage - Net Segments (Version 2)
- Monitor Production Orders or Process Orders
- MRP Cockpit Reuse Component

- Operation Scrap **UP 1905**
- Planned Order Object Page
- Planner Overview
- Process Order Object Page
- Process MRP Simulations **NEW 1905**
- Process MRP Capacity Simulations **NEW 1905**
- Schedule MRP Simulation Creation **NEW 1905**
- Production Execution Duration **UP 1905**
- Production Order Object Page
- Resource Object Page
- Schedule Buffer Proposal Calculation
- Schedule Copy Total Forecast Runs
- Schedule Kanban JIT Call Output **NEW 1905**
- Schedule Lead Time Classification of Products (DD)
- Schedule Material Demand Forecast Runs
- Schedule Order Conversion Runs
- Schedule PIR Reorganizing Runs
- Schedule Product Classification (DD)
- Schedule Production **UP 1905**
- Work Center Object Page

Production Supervisor - Discrete Manufacturing

- Manage Production Operations
- Manage Production Orders
- Manufacturing Planning and Execution Common Reuse Library
- Manufacturing Planning and Execution Reuse Library for Popovers
- Production Order Confirmation Object Page
- Reuse Library for AoR **UP 1905**
- Schedule ATP Run for Production/Planned Orders
- Schedule Order Release Run
- Scrap Reason **UP 1905**
- Schedule Order Technical Completion Run

Production Supervisor - Process Manufacturing

- Process Order Confirmation Object Page
(business processes within Process Manufacturing is primarily supported with Harmoized UI)

Quality Engineer

- Characteristic Analytics
- Characteristic Detailed Analytics
- Manage Control Charts
- Manage Defects
- Manage Quality Info Records **UP 1905**
- Manage Quality Levels
- Manage Quality Tasks
- Manage Usage Decisions **UP 1905**
- Nonconformance Analytics
- Nonconformance Detailed Analytics
- Quality Engineer Overview **UP 1905**
- Quality Level History

Quality Manager

- Inspection Lot Analytics
- Inspection Lot Detailed Analytics

Quality Planner

- Display Quality Info Record for Procurement
- Display Sampling Procedure
- Manage Inspection Plans **NEW 1905**

Quality Technician

- Display Master Inspection Characteristic
- Inspection Lot (S/4HANA)
- Inspection Method (S/4HANA)
- Inspection Operation (S/4HANA)
- Inspection Point (S/4HANA)
- Manage Incoming Certificates
- Manage Inspection Lots
- Process Quality Tasks
- Quality Technician Overview
- Record Defects **UP 1905**
- Record Defects with SAP CoPilot
- Record Inspection Results **UP 1905**
- Record Inspection Results in Table Form
- Record Results for Inspection Points **UP 1905**
- Results History
- Reuse Result Recording Library
- Reuse Quick View Library

SAP S/4HANA Supply Chain: Fiori Apps

Exemplary view, most current list see [Fiori Apps Library](#)
Delta stickers reflect between 1902 and 1905

Internal Sales Representative

- Assign Product to Product Allocation
- Configure Product Allocation
- Manage Product Allocation Planning Data
- Manage Product Allocation Sequences
- Monitor Product Allocation Characteristic Value Combinations
- Monitor Product Allocation Order Items
- Monitor Product Allocation Periods
- Product Allocation Overview

Inventory Analyst

- Inventory Analysis Overview ^{UP 1905}

Inventory Manager

- Dead Stock Analysis ^{UP 1905}
- Goods Movement Analysis
- Goods Movement Analysis (Accessible)
- Inventory Turnover Analysis
- Manage Batches
- Manage Stock
- Material Inventory Values - Balance Summary
- Material Inventory Values - Line Items
- Overview Inventory Management
- Physical Inventory Analysis ^{UP 1905}
- Physical Inventory Analysis (Accessible)
- Physical Inventory Document Overview
- Slow or Non-Moving Materials ^{UP 1905}
- Stock - Multiple Materials ^{UP 1905}
- Stock - Single Material

Order Fulfillment Manager

- Configure Alternative Control
- Configure BOP Segment
- Configure BOP Variant
- Configure Custom BOP Sorting ^{UP 1905}
- Configure Order Fulfillment Responsibilities ^{UP 1905}
- Configure Substitution Strategy ^{UP 1905}
- Monitor BOP Run ^{UP 1905}
- Schedule BOP Run
- Schedule Deletion of ATP Results Log

Order Fulfillment Specialist

- Release for Delivery ^{UP 1905}

Plant Manager

- Overview Plant Management

Receiving Specialist

- Expected Goods Receipt
- Inbound Delivery (S/4HANA)
- Schedule Goods Receipt for Inbound Deliveries
- Schedule Inbound Delivery Creation

Shipping Specialist

- Analyze Delivery Logs
- Analyze Delivery Performance - Shipped as Planned
- Create Delivery with Reference to Sales Order
- Create Delivery without a Reference (Quick Create)
- Create Outbound Deliveries - From Sales Orders
- Delivery Performance
- Manage Outbound Deliveries
- Outbound Delivery (S/4HANA)
- Pick Outbound Delivery ^{UP 1905}
- Returns Delivery (S/4HANA)
- Schedule Delivery Creation
- Schedule Goods Issue For Deliveries

Transportation Manager (Transportation Management)

- Create and Update TM Organizations from Enterprise Structure
- Freight Order List
- Freight Unit List
- Manage Freight Agreements
- Schedule Delivery Creation (Transportation Management)
- Schedule Location Creation for plants, shipping points, customers
- Schedule Location Update for plants, shipping points

Warehouse Clerk

- Material Documents Overview
- Material Master Reuse Component
- Overdue Materials - Goods Receipt Blocked Stock ^{UP 1905}
- Overdue Materials - Stock in Transit ^{UP 1905}
- Overview Inventory Processing
- Post Goods Receipt for Inbound Delivery
- Post Goods Receipt for Production Order
- Post Goods Receipt for Purchase Order
- Post Goods Receipt without Reference
- Transfer Stock - Cross-Plant
- Transfer Stock - In-Plant ^{UP 1905}

Warehouse Clerk (Extended Warehouse Management)

- Change Inbound Delivery
- Count Physical Inventory
- Reuse Lib for EWM
- Run Outbound Process – Deliveries

Warehouse Operative (Extended Warehouse Management)

- Pack Outbound Deliveries ^{UP 1905}
- Pack Warehouse Stock ^{UP 1905}
- Process Warehouse Tasks – Picking ^{NEW 1905}

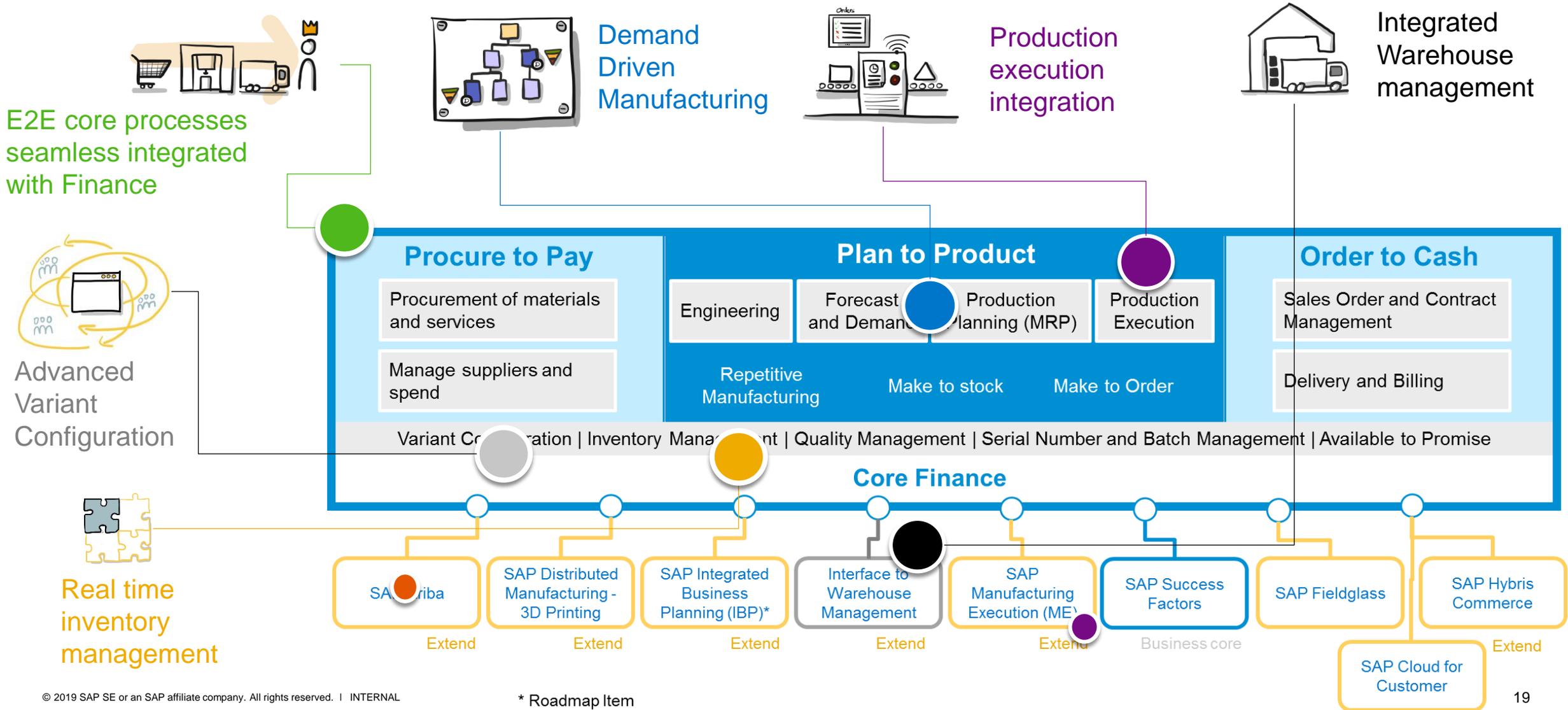
SAP S/4HANA Cloud for Manufacturing & Supply Chain

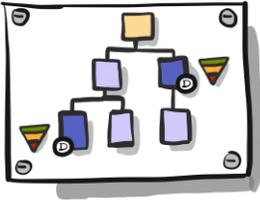
Key Highlights



SAP S/4HANA Cloud

Key highlights in Product Area Manufacturing / Supply Chain

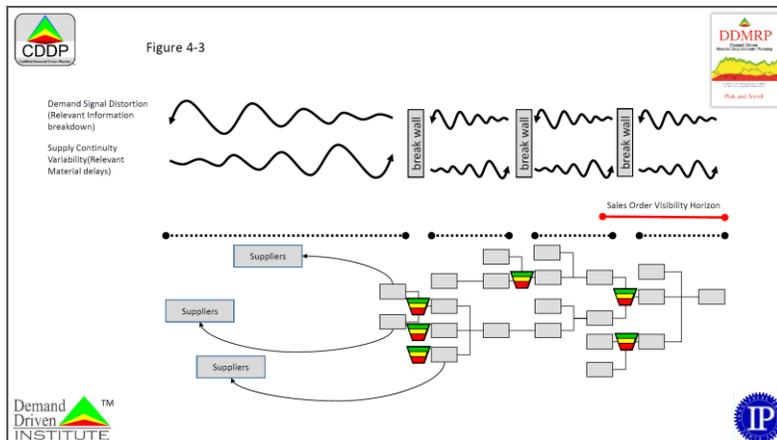




Demand Driven Manufacturing

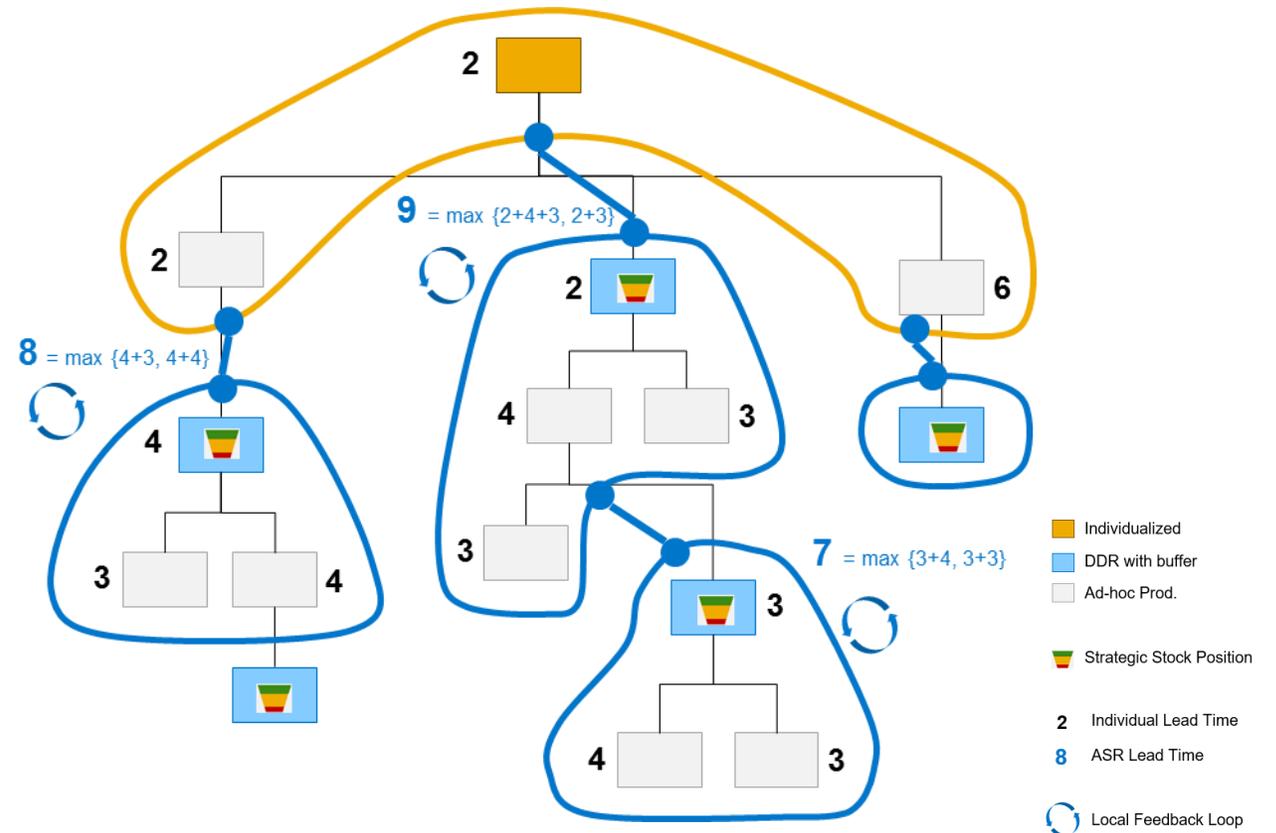
Methodology driver: Demand Driven MRP

[Source: Ptak and Smith 2016]

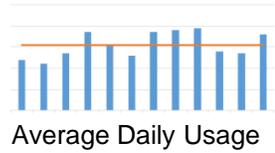


- Permanently optimize the process flow rather than to plan the forecast
- Produce only for real demand not based on assumptions
- Work event-driven rather than plan-driven
- Empower teams to make local decisions instead of to follow a central plan

Highlighting “Decoupling”, “Buffer”, “Lead Times” Breaking down the overall supply chain at the right spots



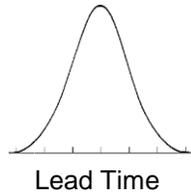
Demand Driven Replenishment Process Flow



Analytics
(incl. Basis for Feedback)

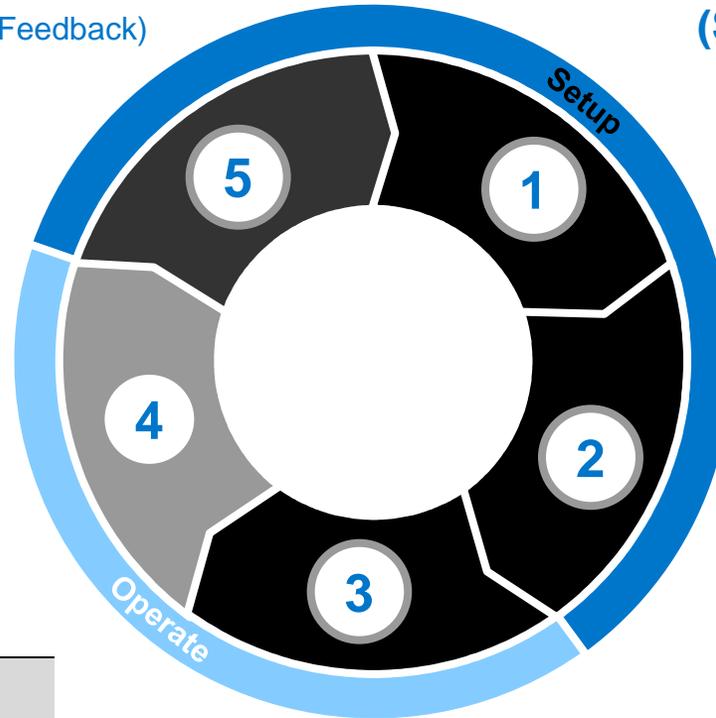
	A	B	C
X			
Y			
Z			

Classification



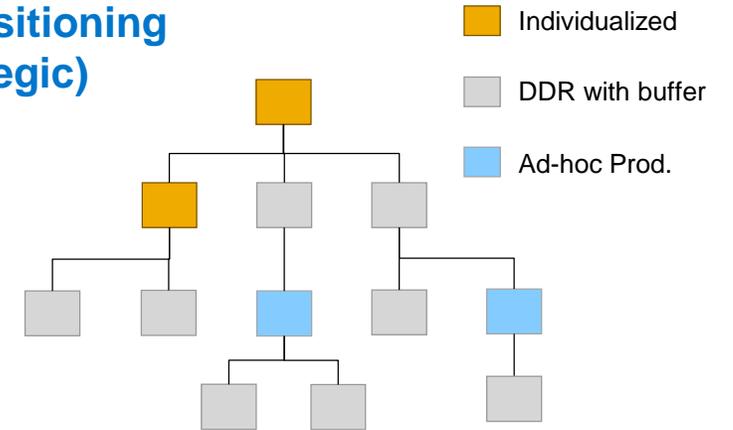
Replenishment Execution

Material	Stock/ Stock Level	Stock+ Ordered	Proposed order qty
FIO-NAV-0815	3	13	30
FIO-PST-1501	6	16	15
FIO-MST-3006	55	135	0
FIO-PRD-0807	22	56	0
FIO-NAV-0101	23	23	127
FIO-NAV-0404	44	44	26
FIO-MST-0821	25	25	0
FIO-PRD-0822	88	88	0

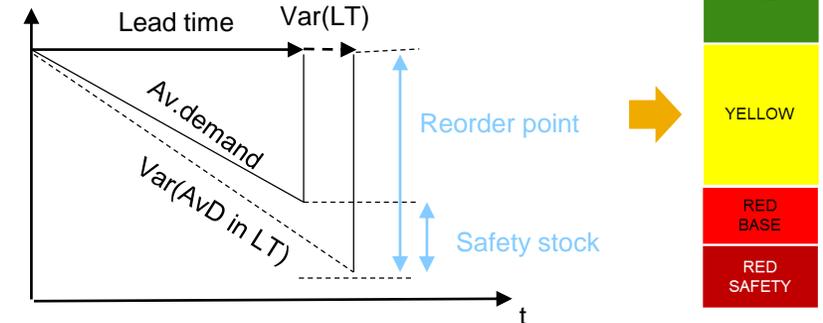


Replenishment Planning

Buffer Positioning (Strategic)



Buffer Sizing (Operational)



Key Trends and Requirements



Customer centricity

- Customer-driven change towards products that fit exact needs at competitive prices
- Individualized products are the main differentiator for winning in the global market



Serving the “Segment of One”

- From looking at mass customers to focusing on the single customer’s needs
- Produce for a lot size of one with high asset utilization and optimal set-up times



Efficient configuration of sales orders and more efficient modeling



Product complexity management focus on data quality, consistency, and agility



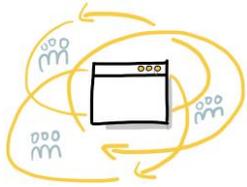
Business transparency for configurable products



Coordination and collaboration between sales and engineering



Simplified, Efficient organization and **process support** for engineer-to-order use cases

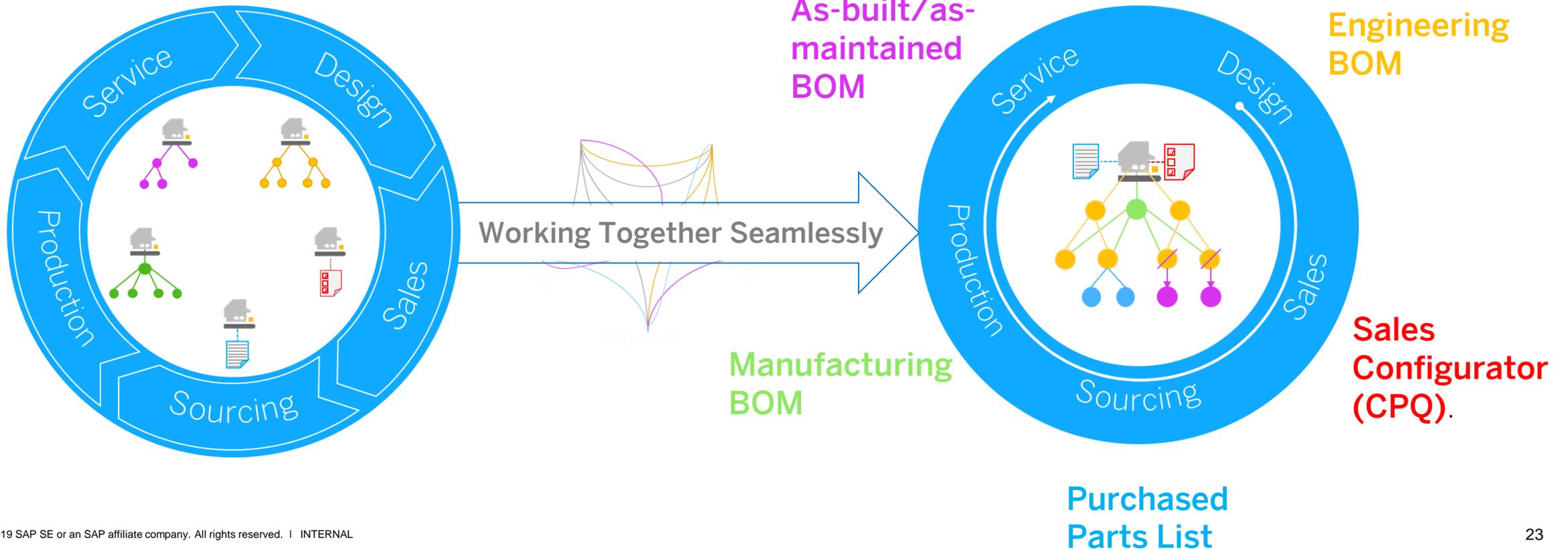


Advanced Variant Configuration

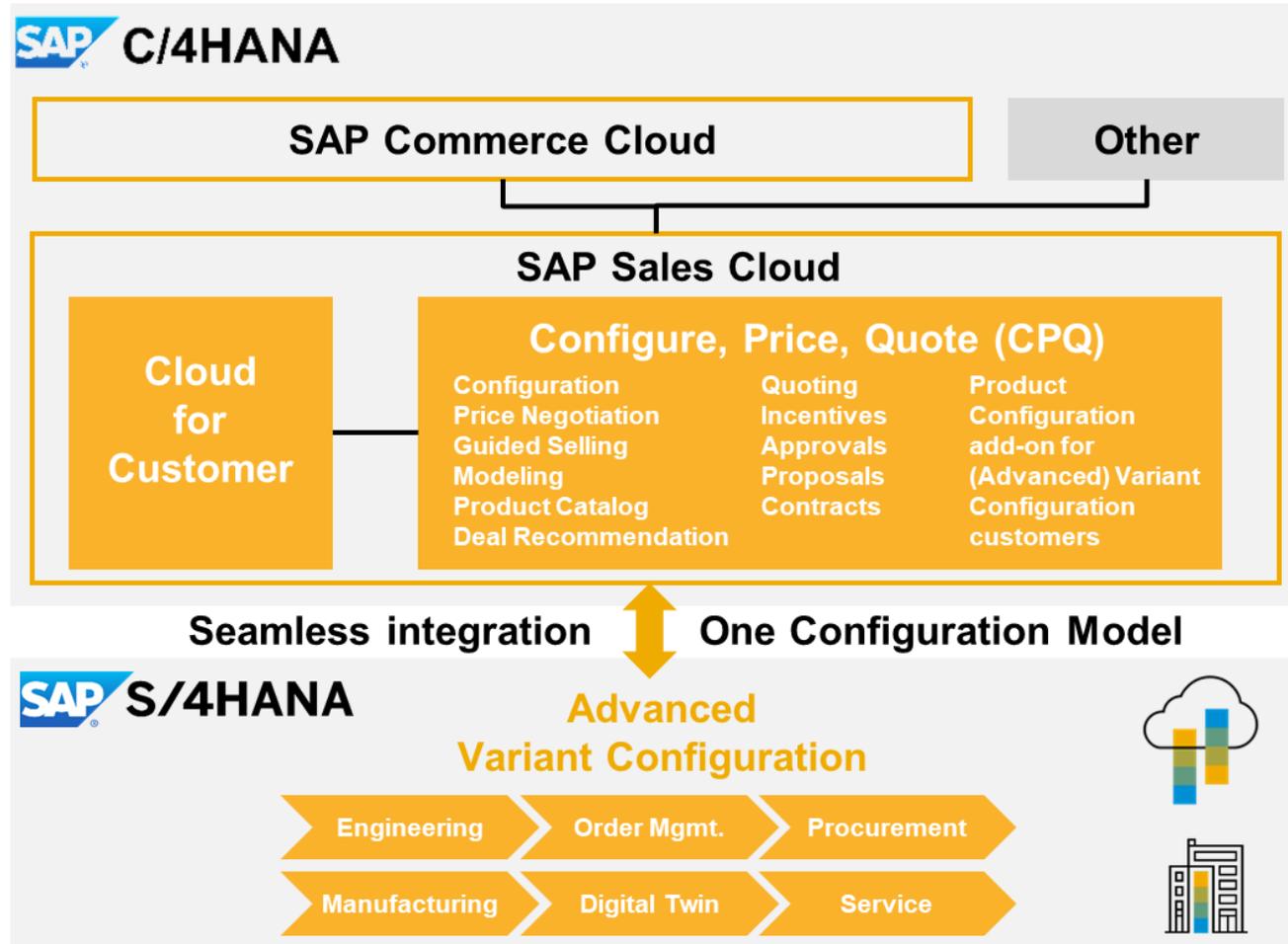
Increase Process Efficiency Throughout the Entire Life Cycle

Disconnected Value Chains and Multiple Solution/Configuration Models

Seamless Collaboration on **One Common Solution/Configuration Model**



Variant configuration and Configure, Price, Quote cover the entire Digital Configuration Lifecycle



C/4HANA Configure, Price, Quote

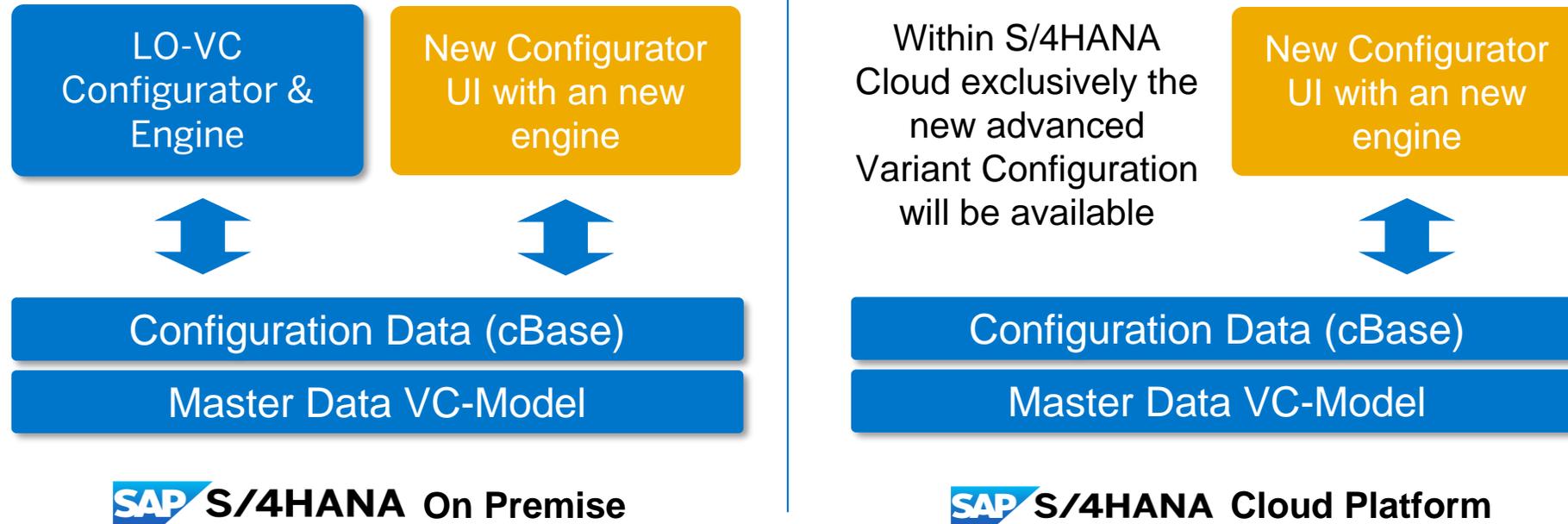
- Consistent Process between Frontend and Backend
- Continue to use your VC configuration models
- Consistent configuration in all channels
- Automatic handover to manufacturing in SAP ERP and SAP S/4HANA
- Faster GTM strategy - modeling in CPQ

S/4HANA for Advanced Variant Configuration

- Enhanced capabilities to define, develop, sell, manufacture, and maintain configurable products
- Efficient configuration of sales orders with modern Fiori UX
- More efficient modeling including new simulation environment
- Analytics for configuration and classification data, embedded in S/4HANA, or in SAP Analytics Cloud

LO-VC vs. Advanced Variant Configurator

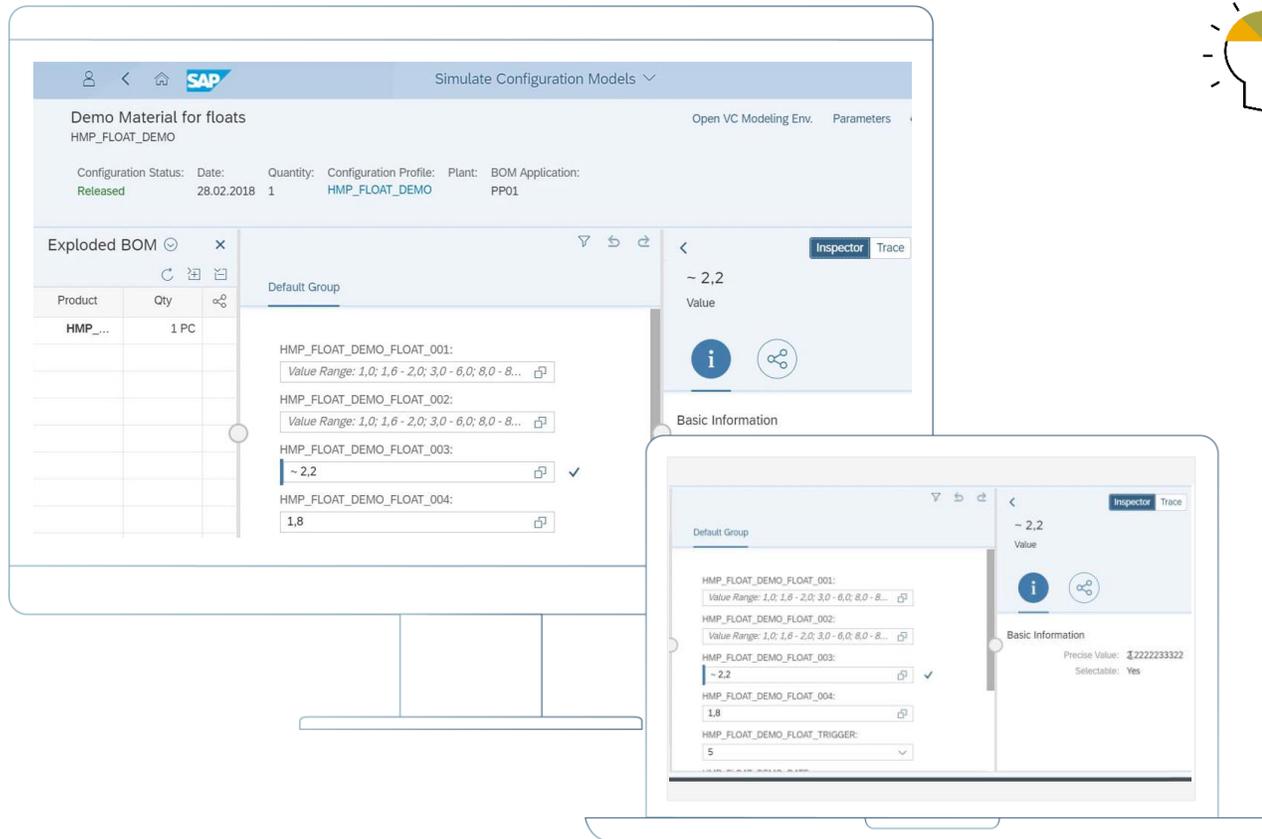
Co-Existence of both solutions



- The variant configuration will be available within SAP S/4HANA on premise and Cloud
- Immediately usage of known mature variant configuration LO-VC within S/4HANA on premise
- In parallel SAP is building the new advanced Variant Configuration using the same foundation

High precision handling of numeric characteristics

Higher precision of numeric values to **improve product configuration accuracy**



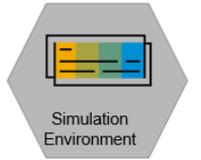
New Capabilities:

- Completely new engine for numeric characteristics
- Distinguish between integer and float characteristics
 - no decimal places for integers
 - mixing integers and floats in dependencies
 - mixed restrictions and conditions
- Improved rounding behavior for float characteristics
- Display of both rounded and precise float value
- Represents all master data values exactly
 - Support of decimal floating point arithmetic standard IEEE'754-2008
 - Example
$$0.1 + 0.2 = 0.3 \text{ (decimal floating point arithmetic)}$$

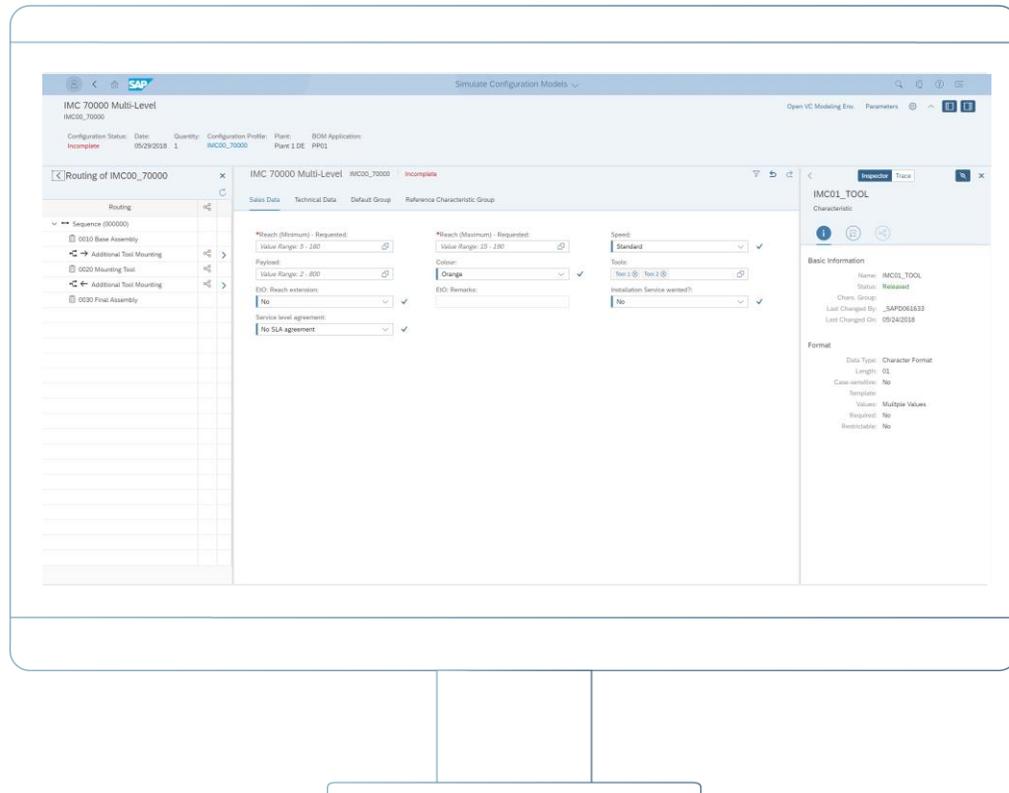
vs.

$$0.1 + 0.2 = 0.300000000000000004 \text{ (binary arithmetic)}$$

Simulation Environment – Integration of routing



Improve quality for complex products and product changes by high-efficient simulation of the routing via different options



New Capabilities:

- Integration of routing with simulation environment
- Structured overview of alternative and parallel sequences
- Visualization of relationship between BOM and routing
- Routing details are visible in trace and inspector

SAP S/4HANA Cloud - Warehousing

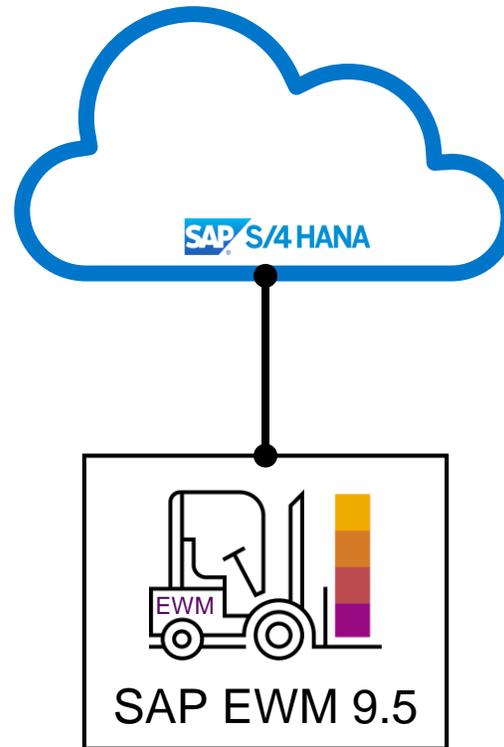
Ever



Since 1708



Since 1805

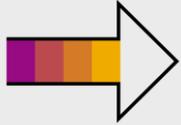


Since 1811



SAP S/4HANA Cloud Warehouse Management

High Level Scope



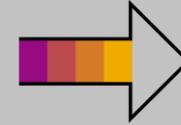
Inbound Processing

- ✓ Inbound from Supplier
- ✓ Inbound from Customer Returns
(via other storage loc.)
- ✓ Inbound from other Storage Location
 - ✓ Inbound from other DC / Plant
 - ✓ Inbound from Production



Internal Processes

- ✓ Physical Inventory
- ✓ Internal Repacking
- ✓ Posting Changes (triggered by WM or ERP)
- ✓ Internal Movements



Outbound Processing

- ✓ Outbound to Customer
- ✓ Return to Supplier
- ✓ Ad Hoc Goods Issue
- ✓ Outbound to other Storage Location
 - ✓ Ship-to to other DC / Plant
 - ✓ Outbound to Production (Staging)
- ✓ Outbound triggered by Goods Movement Posting

Handling Units in Warehouse Management
Batch Management

Warehouse
Structure

Best Practice
Processes

Data Migration

Self-Service
Configuration
UIs

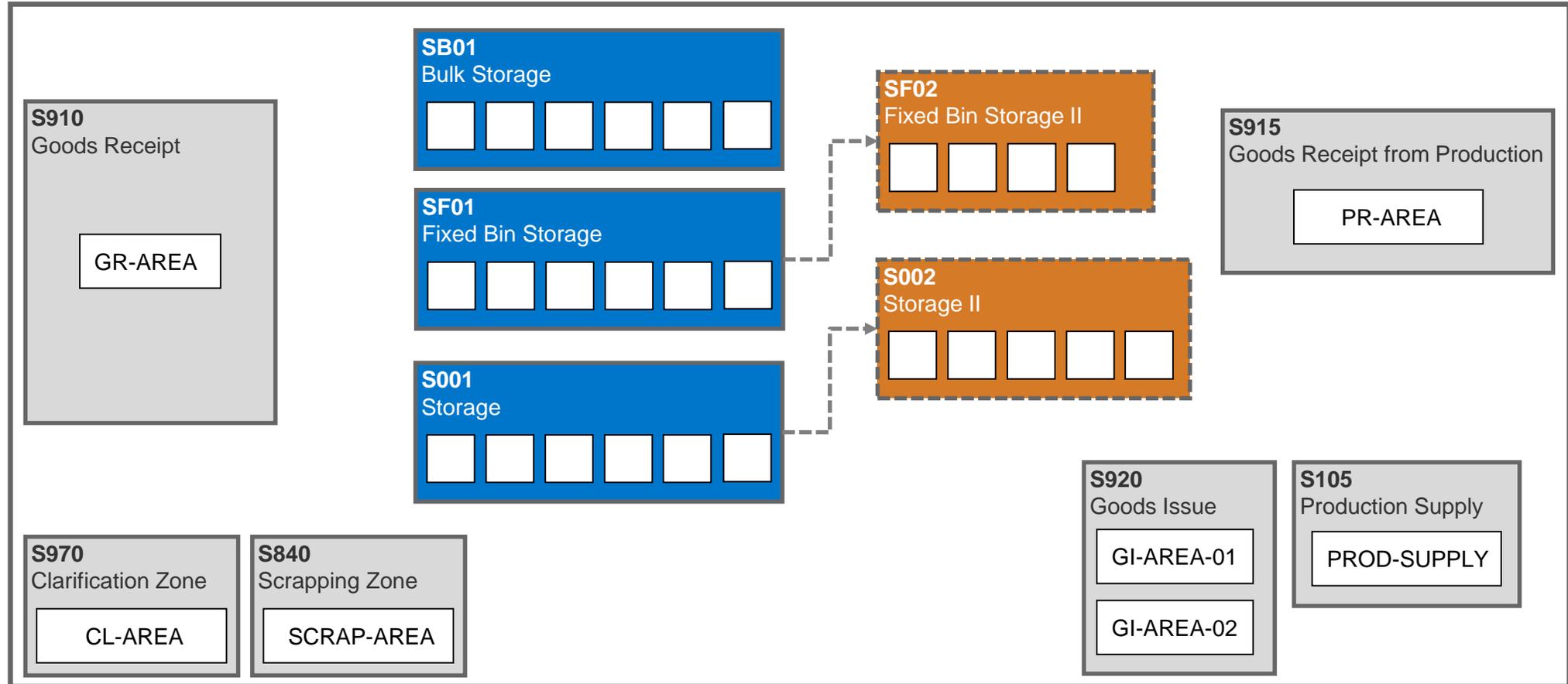
Fiori Business
Catalogs /
Roles / Apps

Master Data
Maintenance

Output
Management

SAP S/4HANA Cloud Warehouse Management

Template Warehouse Structure - Enhancement



Best Practices Customizing

Template Storage Type

Predefined Storage Type

Master Data

Storage Bin

Customer Enhancement

Copy of Template Storage Type

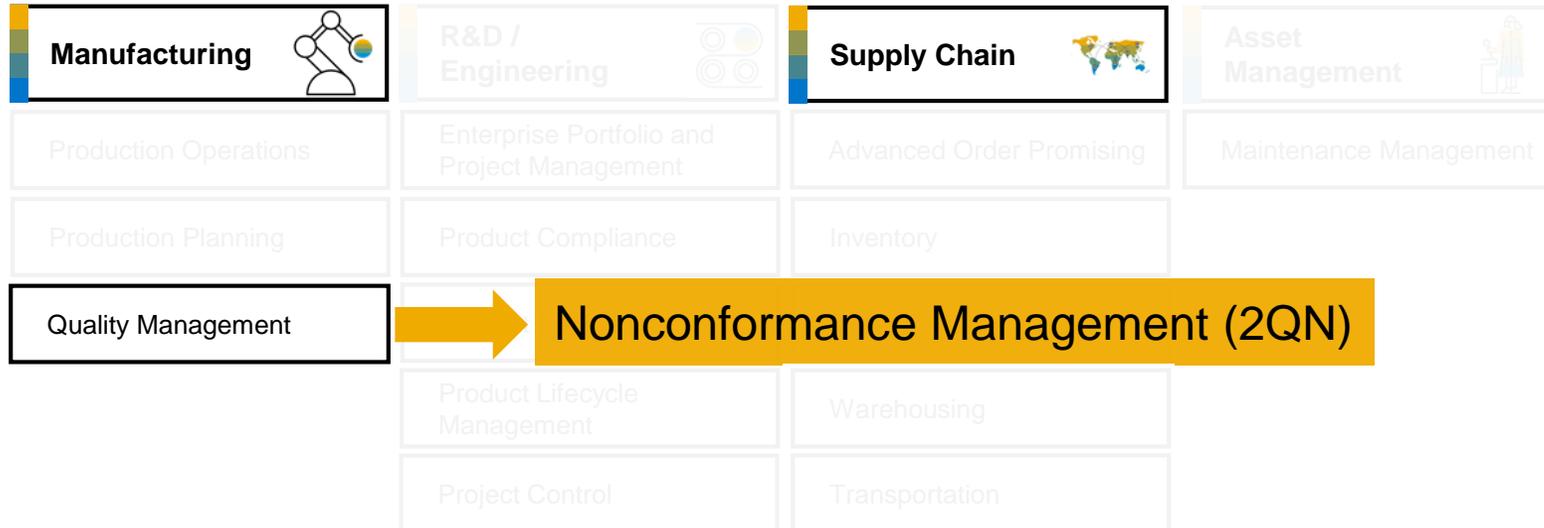
SAP S/4HANA Cloud for Manufacturing and Supply Chain

1905 Release Highlights

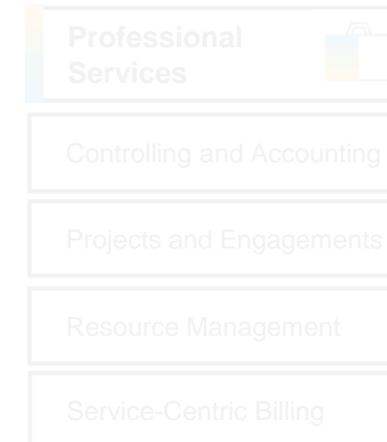
SAP S/4HANA Cloud 1905

Business Area in Line of Business / Industry / Technology

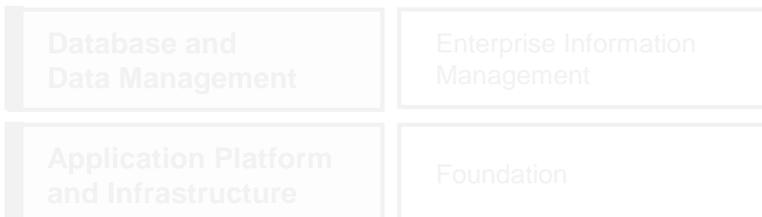
Product- and Asset-centric capabilities



Industry-specific capabilities



Real-time foundation



Quality Management

Efficient defect recording with code recognition based on text supported by machine learning capabilities

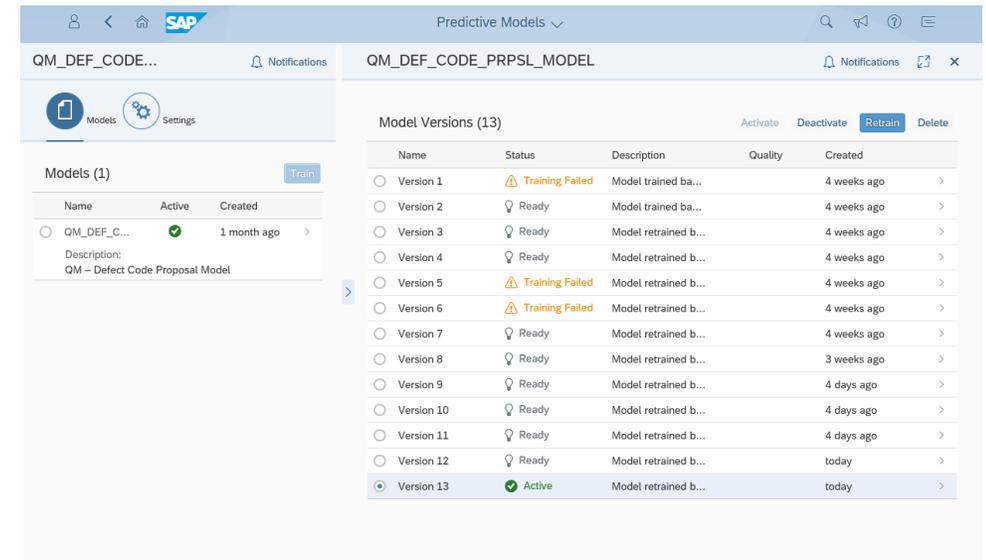
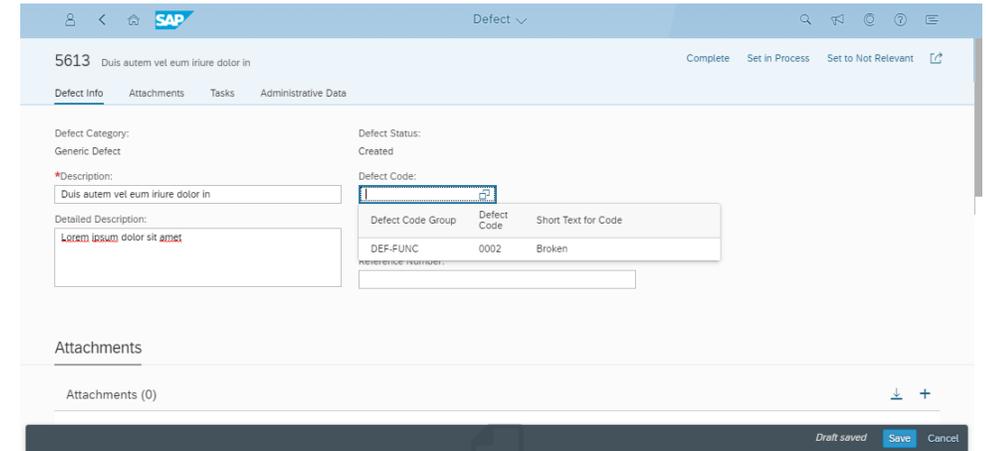
With the Fiori app Record Defect, the quality technician can effectively record defects with high data quality due to the system proposes the best matching defect codes automatically based on the entered description text using a predictive analytics model.

Value Proposition

- Defect handling supported by machine learning perfectly supports the quality technician in his daily work
- The quality technician can use a Fiori App to record defects. With a mobile device he can enter a text to describe the defect. Based on text the Fiori App proposes a defect code which can be assigned to the defect record.
- The proposal of defect codes increases the data quality of all recorded defects. This is important for regular evaluations in order to detect defect frequency and trigger improvement activities.

Capabilities

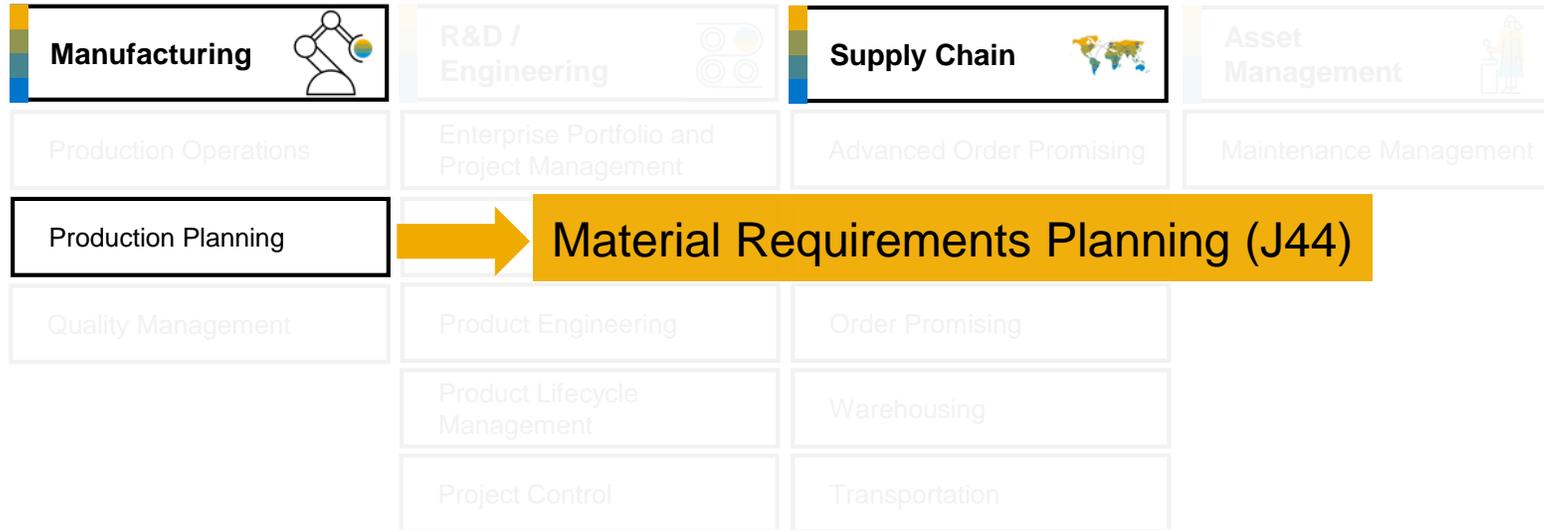
- Record defective parts or products by a quality technician for example during production
- The defect has to be documented by entering a text and selecting a defect code
- The system proposes the best matching defect codes automatically based on text using a predictive analytics model
- The codes are the basis for later evaluations



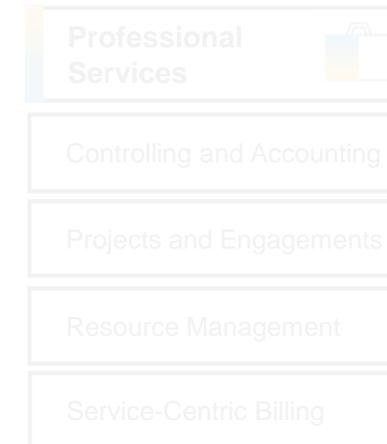
SAP S/4HANA Cloud 1905

Business Area in Line of Business / Industry / Technology

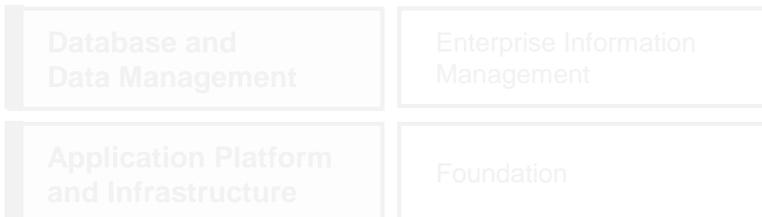
Product- and Asset-centric capabilities



Industry-specific capabilities



Real-time foundation



Production Planning

Avoid excess stock with situation handling (MRP Material Exception)

With this feature you can use situation handling in the Manage Material Coverage app to bring important issues to the users' attention. Example: In case of a sales order gets cancelled, it is possible to identify the related MRP Elements such as production order or purchase order that may already have been created to fulfill the 'cancelled' requirement.

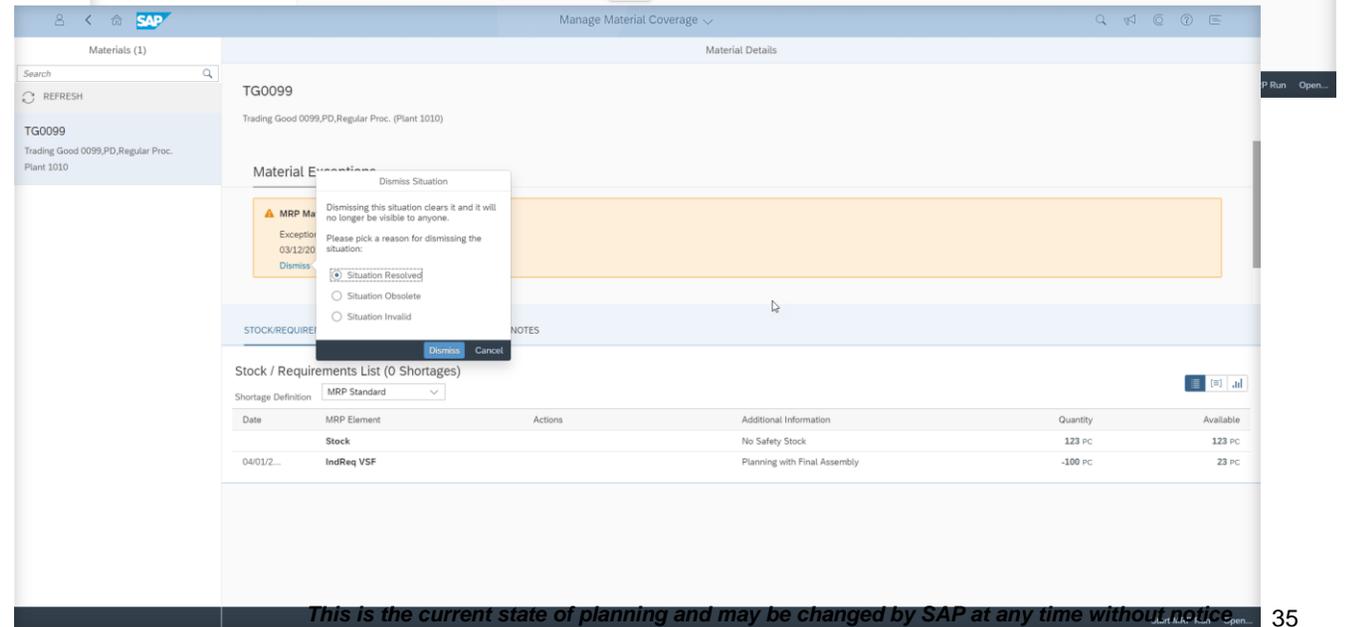
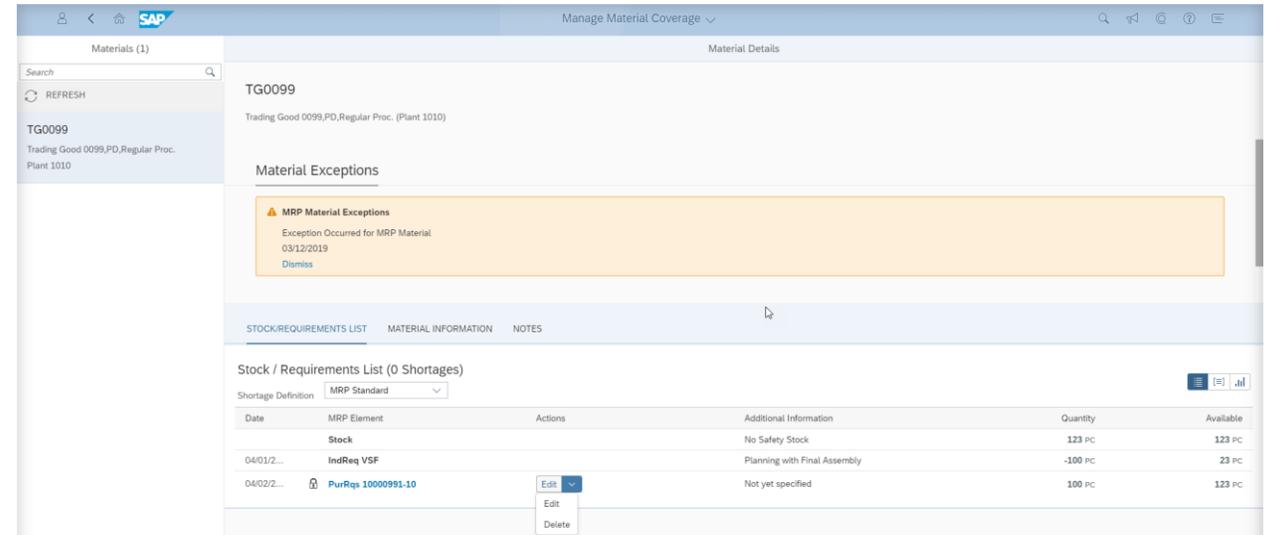
Value Proposition

- Situation Handling for Material Coverage
- Detect unnecessary supply elements

Capabilities

The following MRP Situations will be detected

- No requirements for a receipt element exist. To avoid unnecessary warehouse stock, the element should be reversed.
- The planned available stock exceeds the maximum stock as specified.
- The actual stock and the receipt elements exceed the requirements in the individual segment such as make-to-order planning, individual project planning, direct production or direct procurement.
- [SAP Note 2733550](#)



SAP S/4HANA Cloud 1905

Business Area in Line of Business / Industry / Technology

Product- and Asset-centric capabilities

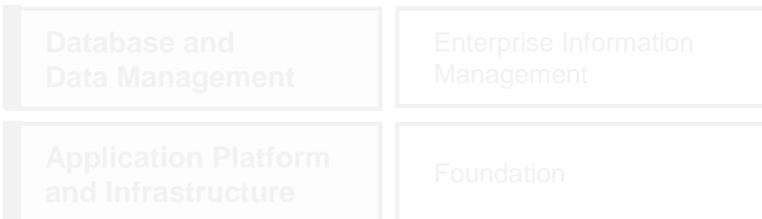
Industry-specific capabilities



Warehouse Kanban Supply into Production (3VT)
Resource Management in WM (3W0) – new in 1905!

- Quality Management in WM (3M0)
- Warehouse Inbound Processing (3BR)
- Warehouse Outbound Processing (3BS)
- Warehouse Physical Inventory (3BX)
- Warehouse Production Integration (3DV)
- Warehouse Ad Hoc Goods Issue (3BT)
- Warehouse Posting Changes (3BU)
- Warehouse Internal Repacking (3BW)

Real-time foundation



Warehouse Management

Accelerated and Simplified production supply with harmonized control cycle and integrated KANBAN processing

In Kanban, a new stock transfer replenishment strategy has been created, which enables direct warehouse task creation in Warehouse Management. The tight integration between warehousing and production reduces the total manufacturing costs by supporting lean execution principles based on standardized pull processes.

Value Proposition

- Immediate visibility of Kanban replenishment requests in Warehouse Management
- Smoother manufacturing flow
- Flexibility in production
- Reduce inventory carrying cost
- Better-managed inventory levels

Capabilities

- Support Kanban scenarios in production supply in conjunction with Warehouse Management as supply source
- Integrated control-cycle maintenance for production and warehouse functions

The screenshot displays the SAP Warehouse Management interface for setting a Kanban container status. The main window is titled "Set Kanban Container Status" and shows details for a container with ID 953, containing material TG21. The container status is currently "EMPTY", with a previous status of "WAIT". The quantity is 0 ST, and the requested quantity is 2 ST. The container is located at Plant 1 DE (1010) in Supply Area Release Demo 1905 (RD-1905). The control cycle item is 178/1, and the warehouse task is 1000007801.

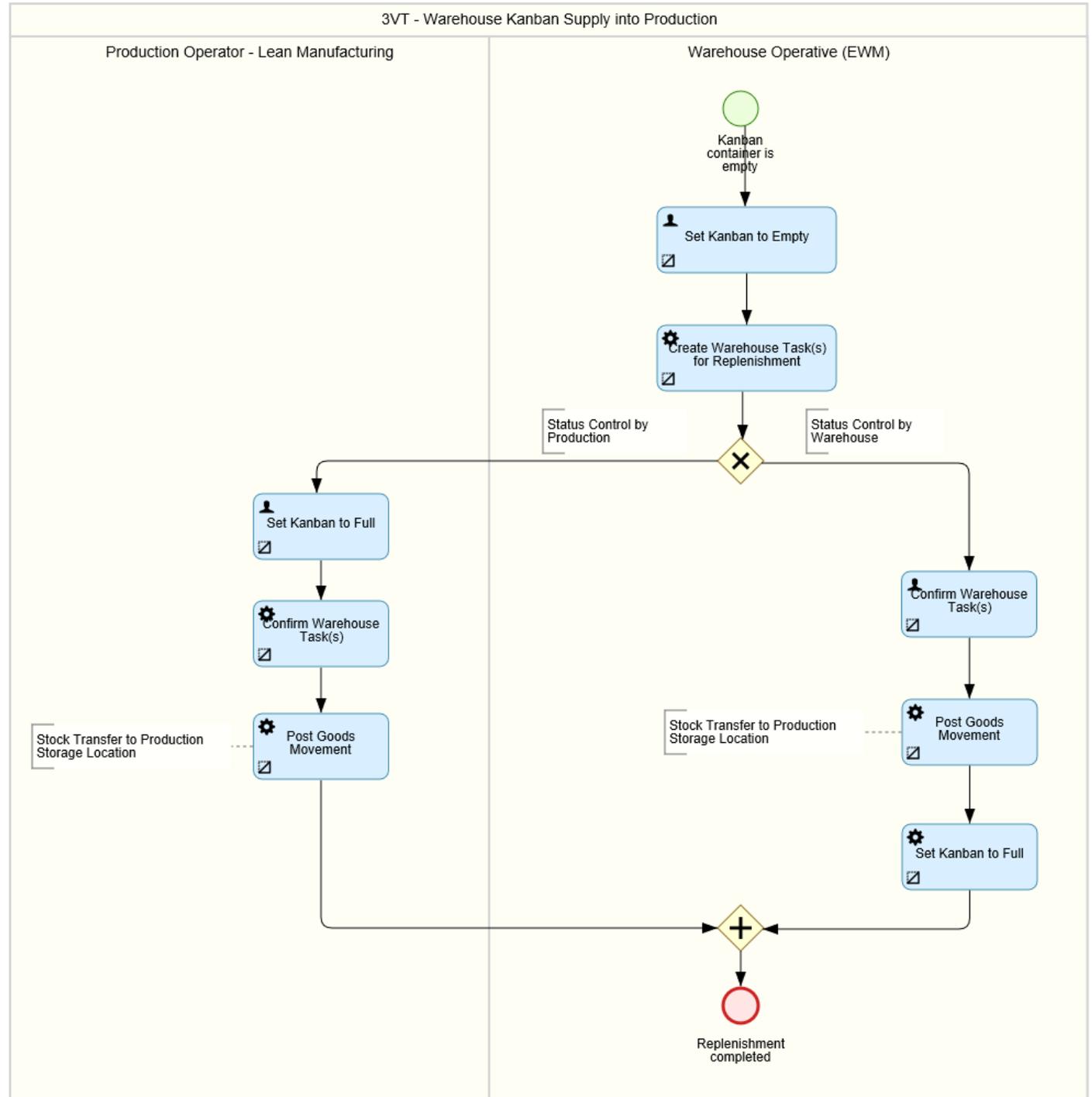
An overlay window titled "Kanban Information" provides detailed data for Kanban ID 948. The material is TG11 (Trad. Good 11, PD, Reg. Trade) at Plant 1010 (Plant 1 DE) in Supply Area RD-1905 (Release Demo 1905). The container number is 1. The quantity requested is 2 ST. The Kanban status is "Container empty, with replenishment", and it was changed on 04/01/2019 at 07:13:26. The replenishment strategy is "Warehouse Task", and the replenishment by barcode (WT) is 001000007900.

Warehouse Management

Warehouse Kanban Supply into Production (3VT)

- When a kanban container status is set to "Empty", the Warehouse Management task is created.
- The warehouse task can be confirmed in two possible ways:
 - User confirms the warehouse task - the system sets the kanban container to "Full".
 - User sets the kanban container to "Full" - the system confirms the warehouse task

This is the current state of planning and may be changed by SAP at any time without notice and Key innovations do not reflect licensing



Warehouse Management

Improve efficiency of Mobile execution with new APIs for Warehousing activities

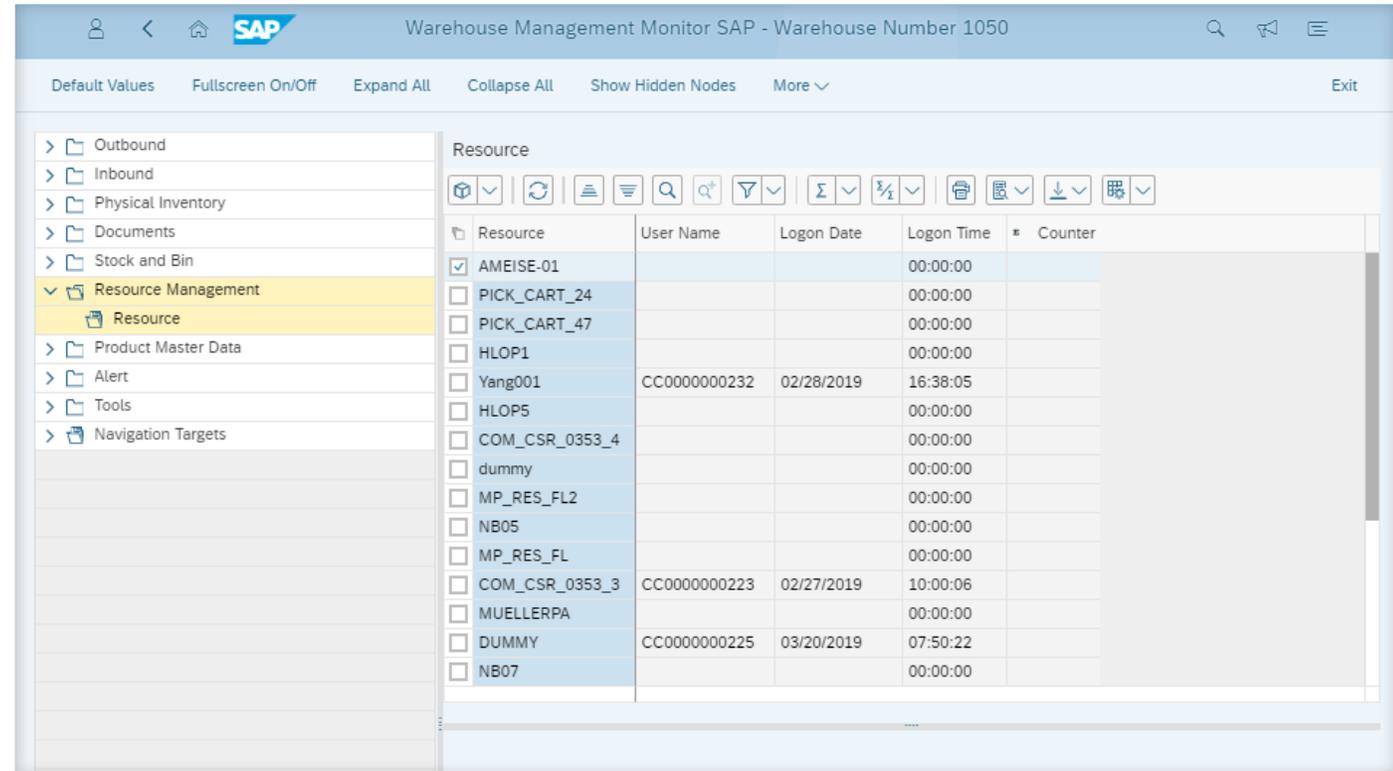
The new scope item *Resource Management in Warehousing (3W0)* allows you to leverage interfaces (APIs) for the development of customer-specific apps for warehouse task processing on mobile devices. In addition, it enables you to manage your warehouse resources, such as a user or equipment that executes work in the warehouse. A resource is mandatory to process warehouse orders and tasks with the APIs.

Value Proposition

- Increase the efficiency of warehouse processes
- Enable customers to manage warehouse resources
- Optimize workload for a dedicated warehouse resource
- Reduce additional work caused by paperwork

Capabilities

- Use Resource Management for mobile warehouse execution
- Integrate with mobile warehouse task processing
- Implement customer-specific apps for mobile warehouse execution for instance via the SAP Mobile Development Kit



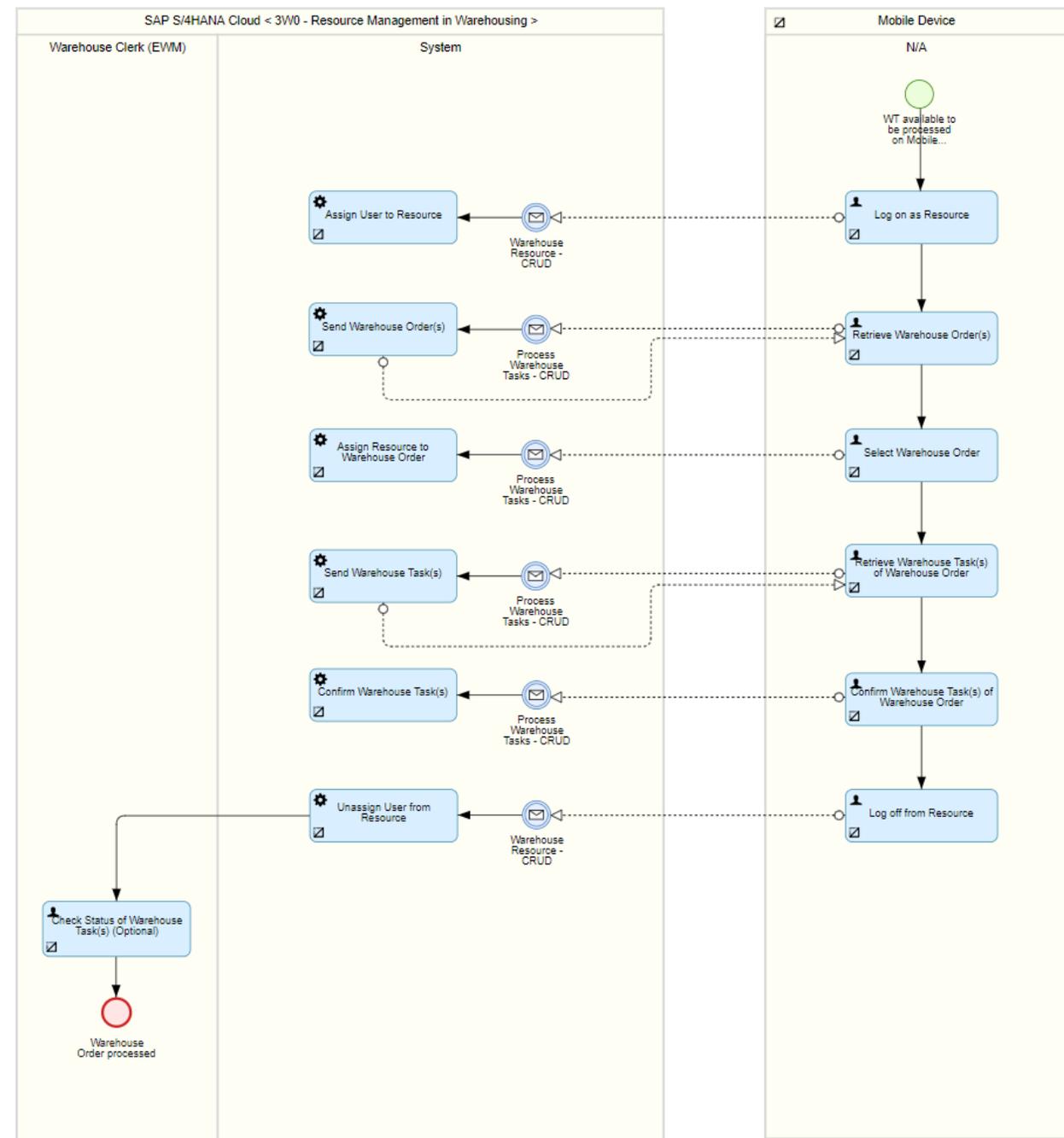
The screenshot displays the SAP Warehouse Management Monitor interface for Warehouse Number 1050. The left sidebar shows a navigation tree with 'Resource Management' expanded to 'Resource'. The main area shows a table of resources with columns for Resource, User Name, Logon Date, Logon Time, and Counter. The table contains the following data:

Resource	User Name	Logon Date	Logon Time	Counter
<input checked="" type="checkbox"/> AMEISE-01			00:00:00	
<input type="checkbox"/> PICK_CART_24			00:00:00	
<input type="checkbox"/> PICK_CART_47			00:00:00	
<input type="checkbox"/> HLOP1			00:00:00	
<input type="checkbox"/> Yang001	CC0000000232	02/28/2019	16:38:05	
<input type="checkbox"/> HLOP5			00:00:00	
<input type="checkbox"/> COM_CSR_0353_4			00:00:00	
<input type="checkbox"/> dummy			00:00:00	
<input type="checkbox"/> MP_RES_FL2			00:00:00	
<input type="checkbox"/> NB05			00:00:00	
<input type="checkbox"/> MP_RES_FL			00:00:00	
<input type="checkbox"/> COM_CSR_0353_3	CC0000000223	02/27/2019	10:00:06	
<input type="checkbox"/> MUELLERPA			00:00:00	
<input type="checkbox"/> DUMMY	CC0000000225	03/20/2019	07:50:22	
<input type="checkbox"/> NB07			00:00:00	

Warehouse Management

Resource Management in Warehousing (3W0)

- Leverage interfaces (APIs) for the development of customer-specific apps for warehouse task processing on mobile devices
- APIs enabling users to:
 - Process warehouse orders and warehouse tasks
 - Block warehouse orders and prevent concurrent processing by different warehouse workers



Warehouse Management

Our direction

Open warehouse management with published APIs to allow partners and customer to consume warehousing data on any device

Goal for S/4HANA Cloud 1905

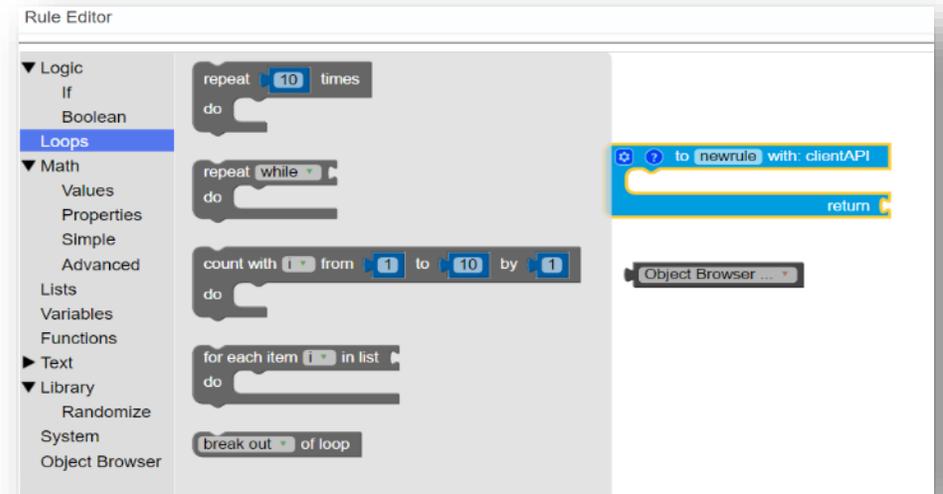
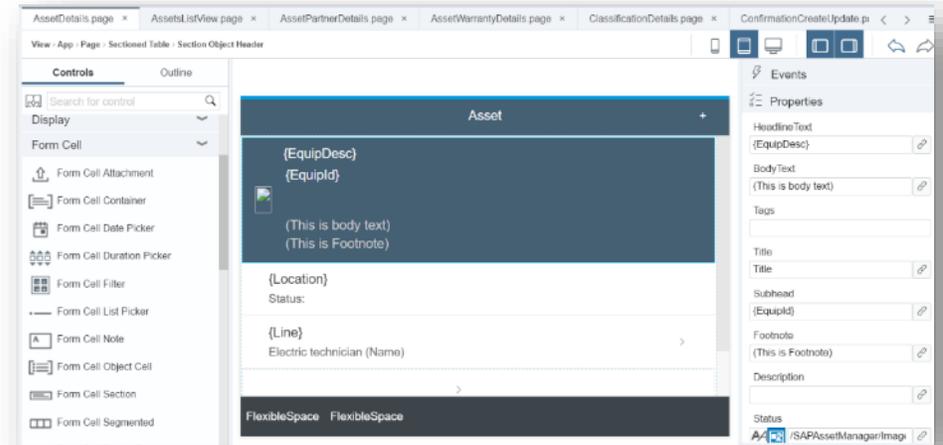
- Published API for Warehouse Order / Warehouse Task processing
- Published API for Resource Management related functions



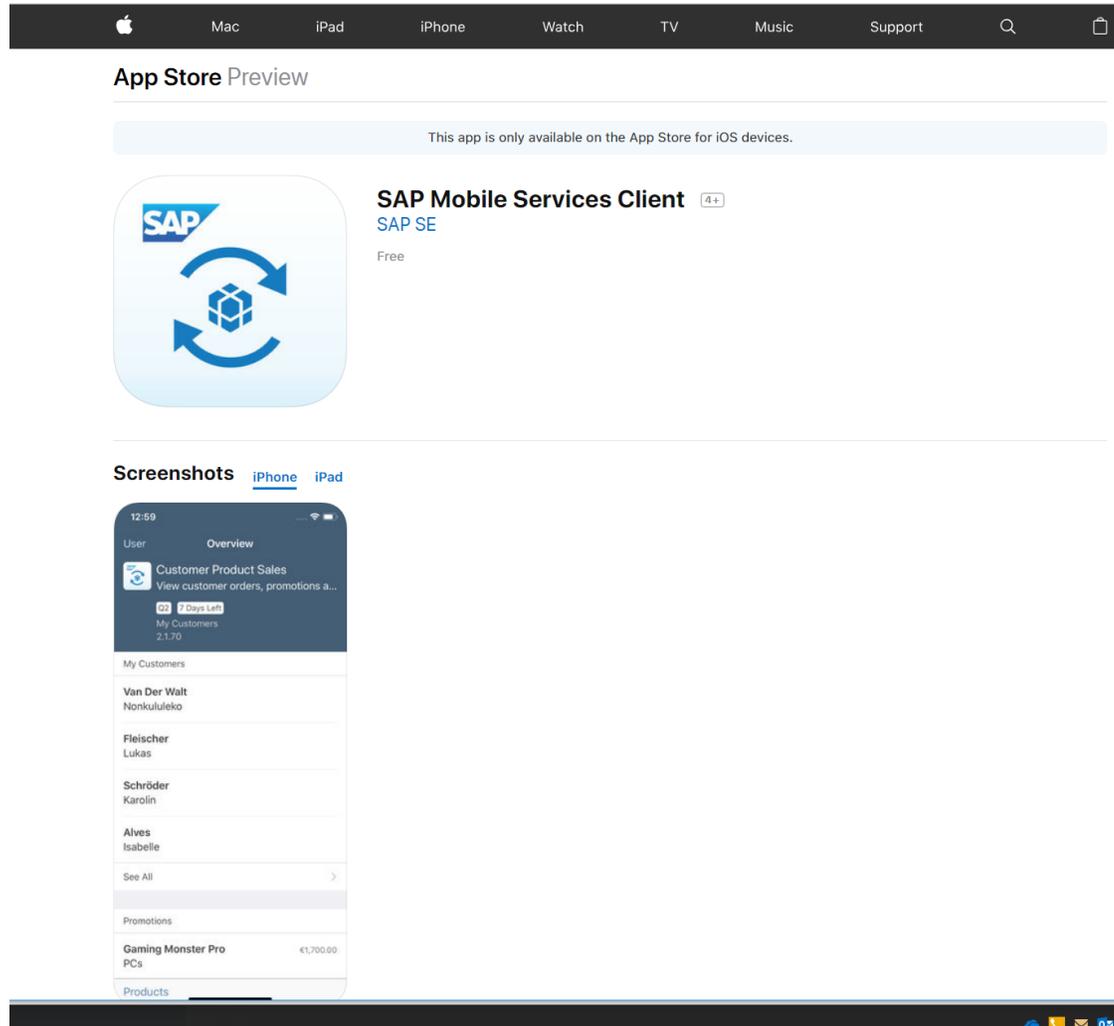
SAP Mobile Development Kit

What is it?

- SAP Cloud Platform Mobile Services includes a new Mobile development kit.
- Empowers developers to build and customize rich, native extensible mobile applications
- It simplifies the app lifecycle management.
- Creates native apps (SAP Asset Manager is an example)
- [Video Tutorial](#)



SAP Mobile Services Client App



The SAP Mobile Services Client is a native iOS application that gets its UI and business logic from JSON metadata. The metadata is defined in a WebIDE-based editor. It's provided to the client using the App Update service of Cloud Platform mobile services.

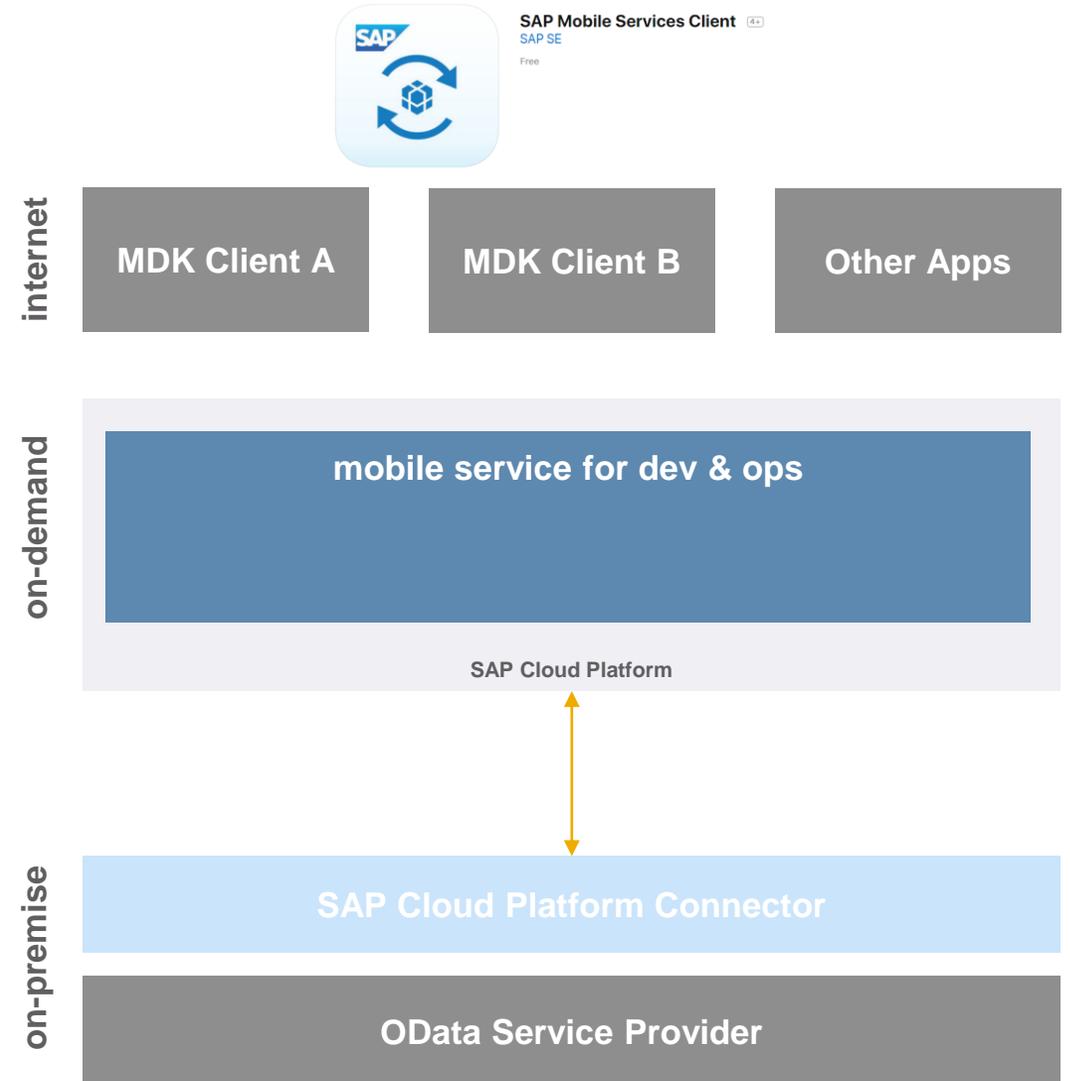
The client connects to mobile services with an endpoint URL among other properties which are provided by the user. These properties are usually embedded in a custom URL which is sent to the user's email. The custom URL must start with "sapmobilesvcs://".

When the client connects to mobile services, it receives the app metadata and connects to one or more OData services. OData can be securely stored locally so that it's available offline. The UI is implemented with the SAP Fiori framework.

This app is "generic" in that no application definitions or data come with the app. It's only usable if the user connects securely to a mobile services instance.

Runtime – Mobile Services

- Deploy the app via standard Mobile Services commands from WebIDE
- Lifecycle: the mobile client application **automatically** receives any application updates



MDK Prototype on iOS

SAP LABS PREVIEW

08:44

< Back Warehouse Task List

1000008903 17	Task Nr. Quantity
1000009604 17	Task Nr. Quantity
1000009105 9	Task Nr. Quantity
1000009106 8	Task Nr. Quantity
1000009602 8	Task Nr. Quantity
1000005705 7.5	Task Nr. Quantity
1000004504 7	Task Nr. Quantity
1000008003 7	Task Nr. Quantity
1000009107 7	Task Nr. Quantity

08:45

< Back Overview

TASK DETAILS:

Task Number	1000009107
Warehouse Order	2000013103
Warehouse Number	B200

EXPECTED SOURCE BIN

Source Bin	MG01-01-07-D
------------	--------------

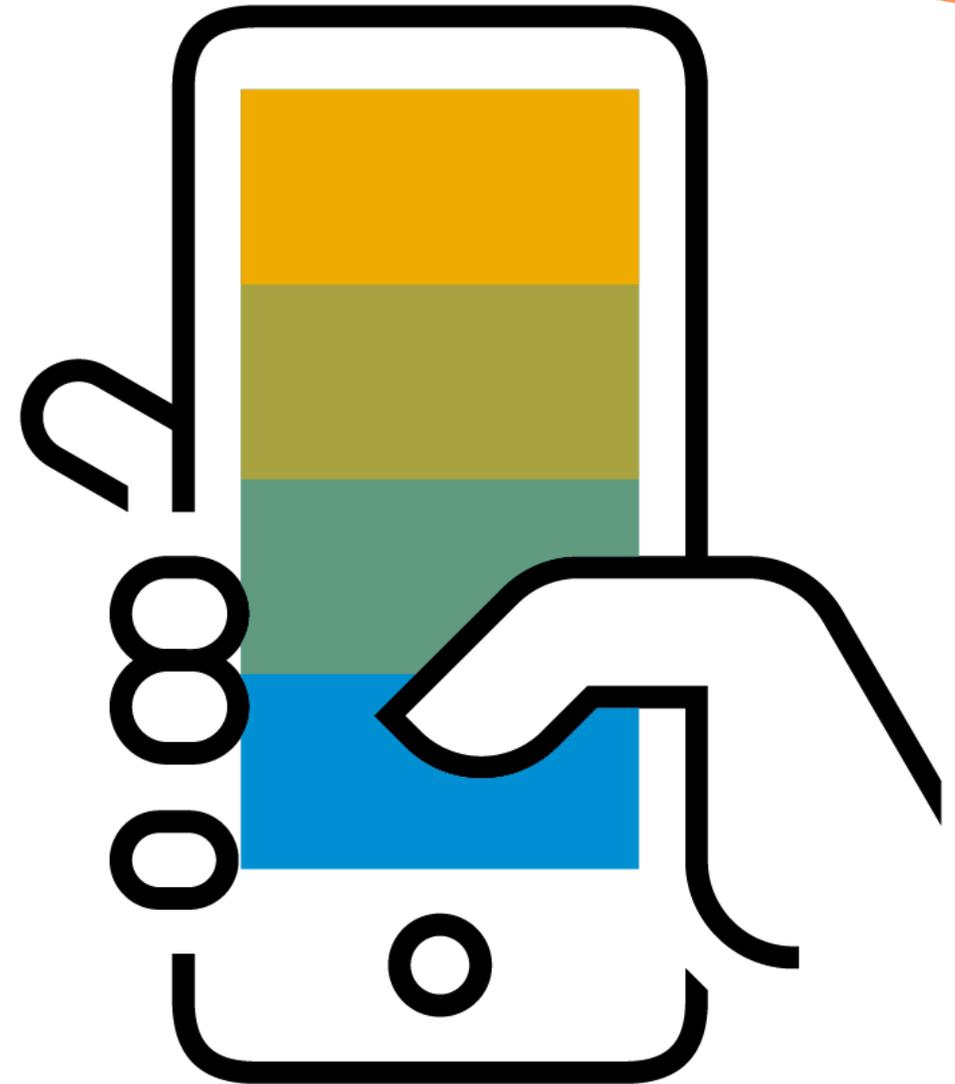
EXPECTED PRODUCT

Product	PROD-M01
Quantity	7

EXPECTED DESTINATION BIN

Destination Bin	STAGE-002
-----------------	-----------

Scan Source Bin



SAP S/4HANA Cloud for Manufacturing & Supply Chain

Improve warehouse operative efficiency with new SAP Fiori app “Process Warehouse Tasks - Picking”

The new SAP Fiori app *Process Warehouse Tasks – Picking* enables the warehouse operative to easily view, print and confirm open picking tasks also on mobile devices.

Value Proposition

- Improve usability and productivity of warehouse picker

Capabilities

- Confirm open picking warehouse task
- Confirm picking task with exceptions
- Print open picking task
- View details of open picking warehouse task
- Navigate to product master FIORI app

The screenshot displays the SAP Fiori app interface for 'Process Warehouse Tasks - Picking'. The top section shows a list of 107 warehouse tasks with columns for Warehouse Task, Warehouse Task Status, Source Bin, Source Handling Unit, Product, Description, Batch, Target Qty in Alternative UoM, and Destination Bin. The task 1000000312 is highlighted.

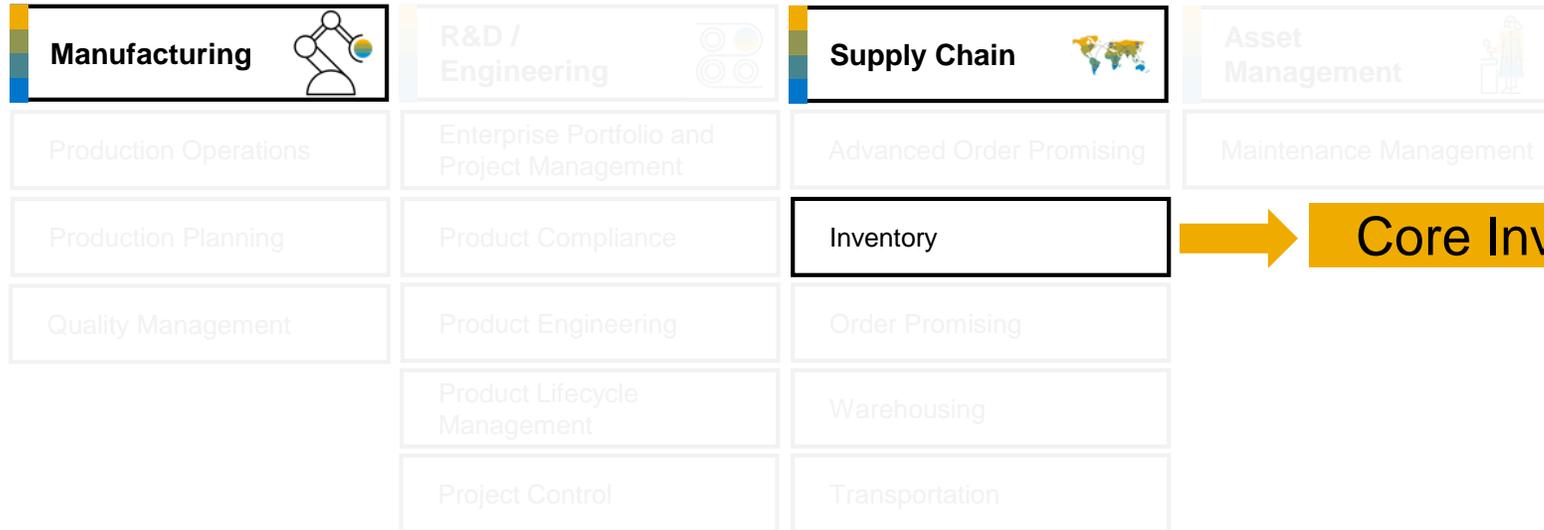
The detailed view for task 1000000312 shows the following information:

- Details:** Product: TG21, Warehouse Process Type: S210, Warehouse Order: 2000000603, Document No.: 80008388.
- Movement Data:** Source: S801, Source Storage Type: S801, Source Bin: S801-01, Source Handling Unit: HU_S801-01-01, Remove Whole HU: , Batch: 0000000076.
- Destination:** Destination Storage Type: S820, Destination Bin: GI-AREA-01, Destination Handling Unit: GI-AREA-01, Actual Qty in Alternative UoM: 5 ST, Exception Handling: Original Destination Storage Bin: GI-AREA-01.
- Stock Data:** Actual Qty in Base UoM: 5 ST, Target Qty in Alternative UoM: 5 ST, Stock Type: Unrestricted-Use (F), Sales Order Stock or Project Stock: No. of Sales Order or Project for Special Sg., Owner: Werk 1010 als Geschäftspartner (10411010), Party Entitled to Dispose: Werk 1010 als Geschäftspartner (10411010), Loading Volume: 5,000,000 CD3, Shelf Life Expiration Date: Planned Processing Time: 0,000 MIN, Country or Region of Origin: Loading Weight: 50,000 KG.
- Other Data:** Doc. Category for Doc. Reference: Outbound Delivery (PDCO), Item No.: 10, Route: TR00001, Supply Area: GI-AREA-01, Document No.: 80008388, Activity Area: S801, Consolidation Group: 5000000020, Manufacturing Order: Kardan ID: GI-AREA-01, QIE Entity: External Identification: GI-AREA-01.
- Administrative Data:** (Empty section)

SAP S/4HANA Cloud 1905

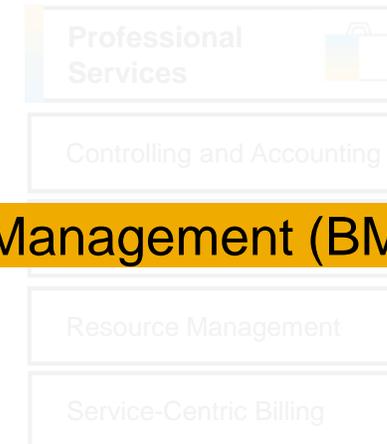
Business Area in Line of Business / Industry / Technology

Product- and Asset-centric capabilities

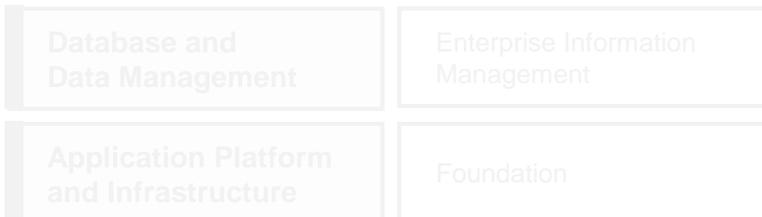


Core Inventory Management (BMC)

Industry-specific capabilities



Real-time foundation



Inventory Management

Slow or Non-Moving Materials

The Slow-Moving Indicator enables you to determine slow-moving materials based on the consumption to stock ratio. The slow-moving indicator is an indicator for a slow-moving material.

This indicator is defined as the total consumption quantity for the analysis period divided by the product of stock quantity on the reference date and multiplied with the period length in number of days. By taking time and percentage into account, the result is normalized and thus makes different analysis periods comparable.

- Monitor materials without consumption (Slow-Moving Indicator = 0)
- A slow-moving indicator = 100 means that 100 % of the current stock will be consumed within one year.

The screenshot displays the SAP Inventory Analysis Overview interface. At the top, there are filters for Display Currency (EUR), Plant (1010), Storage Location, Material, and Material Group. Below this, there are two main summary cards:

- Stock Value Increase despite Consumption:** Shows a value increase of 5.1 B EUR over the last 365 days.
- More than 100 Days without Consumption:** Shows a total value of 3.44 M EUR today.

Two charts are visible:

- Top 20 Materials by Value Increase and Days without Consumption:** A scatter plot showing the relationship between value increase and days without consumption for various materials.
- Value and Number by Last Consumption:** A bar chart showing the value and number of materials for different consumption periods.

Below these, there are two more summary cards:

- Monitor Batches by Longest Time in Storage:** A bar chart showing the longest time in storage for different plants.
- Monitor Batches by Shortest Expiration Date:** A bar chart showing the shortest expiration date for different plants.

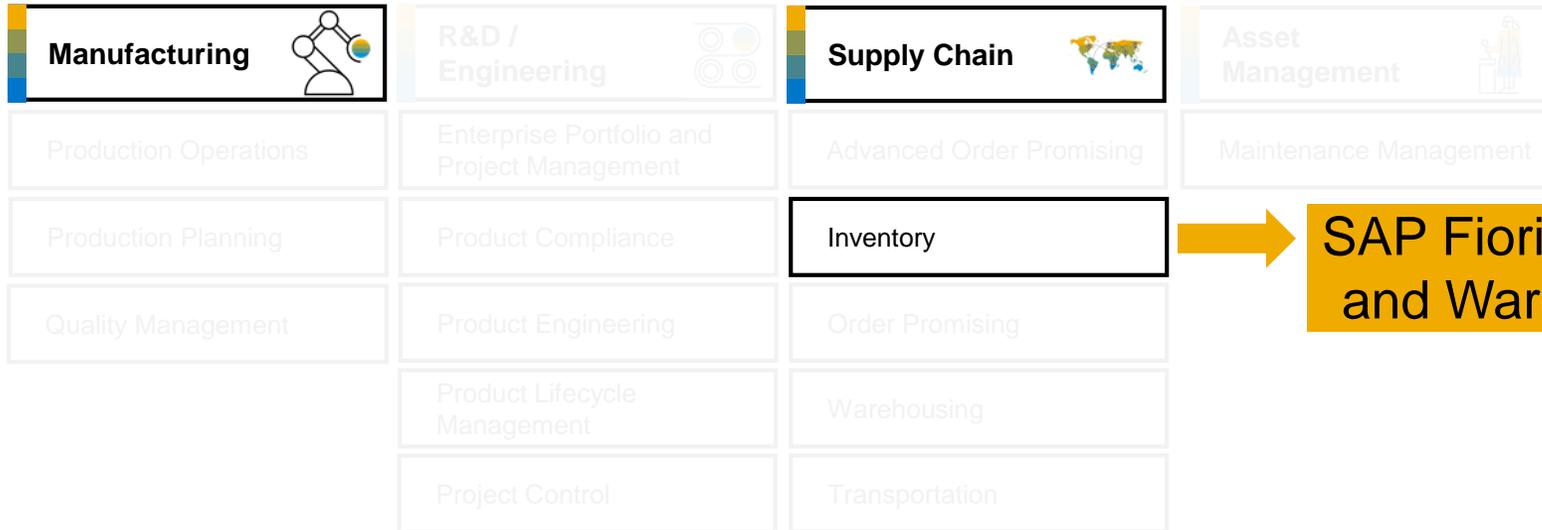
The main table at the bottom is titled "Slow or Non-Moving Materials" and contains the following data:

Material	Plant	Storage Location	Slow-Moving Indicator	Date of Last Consumption	Days without Consumption	Use in BOMs	Material Type	Material Group
SSTESTMAT2 (SSTESTMAT2)	Plant 1 DE (1010)	Std. storage 1 (101A)	0.00	02/15/2019	20	1	Finished Product (FERT)	
Raw (BS_PS_F1)	Plant 1 DE (1010)	Std. storage 1 (101A)	0.00		13	1	Raw materials (ROH)	Raw Materials (LC)
FIN BIKE.MTS-QDMRPPD (DDR_BIKE_01)	Plant 1 DE (1010)	Std. storage 1 (101A)	34,287.87	03/06/2019	1	1	Semifinished Product (HALB)	Finished Goods (L)
FIN BIKE.MTS-QDMRPPD (DDR_BIKE_01)	Plant 1 DE (1010)	Std. storage 2 (101B)	0.00		54	1	Semifinished Product (HALB)	Finished Goods (L)
RAW GEAR.PD (DDR_GEAR_13)	Plant 1 DE (1010)	Std. storage 1 (101A)	34,287.87	03/06/2019	1	1	Raw materials (ROH)	Raw Materials (LC)
RAW GEAR.PD (DDR_GEAR_18)	Plant 1 DE (1010)	Raw mat. stocloc. (101C)	0.00		34	1	Raw materials (ROH)	Raw Materials (LC)
Back wheel 28" Airline Plus C101 (FIO-EBIKE-28-C101)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
Front wheel 28" Airline Plus C102 (FIO-EBIKE-28-C102)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
Handlebar Mountain Carbon C901 (FIO-EBIKE-C901)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
Padel C910 (FIO-EBIKE-C910)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
Crank arm C920 - Carbon (FIO-EBIKE-C920)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
Lithium ion battery 400 Wh C501 (FIO-EBIKE-CEL-C501)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
Bike Computer C402 for Line C401 (FIO-EBIKE-COM4...)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
Derailleur XTG 30 Gear C601 (FIO-EBIKE-DSR-C601)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
Electric drive high performance Line C40 (FIO-EBIKE-...)	New Plant FIO1 (FIO1)	Std. storage 1 (101A)	0.00		79	1	Semifinished Product (HALB)	Test Scenarios (FI)
			34,287.87	03/06/2019	1	1		

SAP S/4HANA Cloud 1902

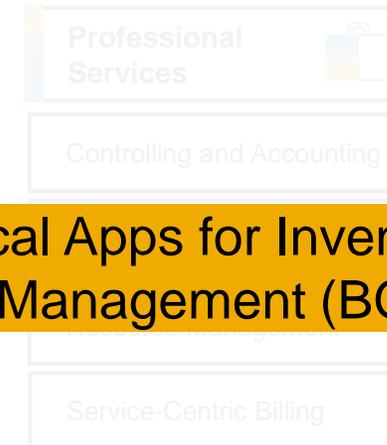
Business Area in Line of Business / Industry / Technology

Product- and Asset-centric capabilities

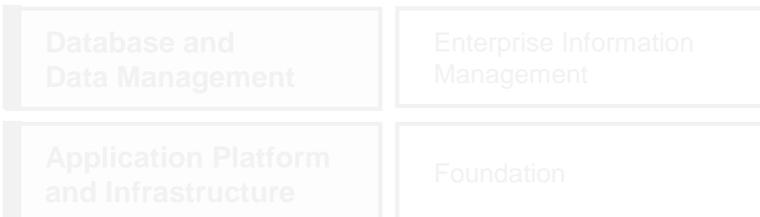


SAP Fiori Analytical Apps for Inventory and Warehouse Management (BGG)

Industry-specific capabilities



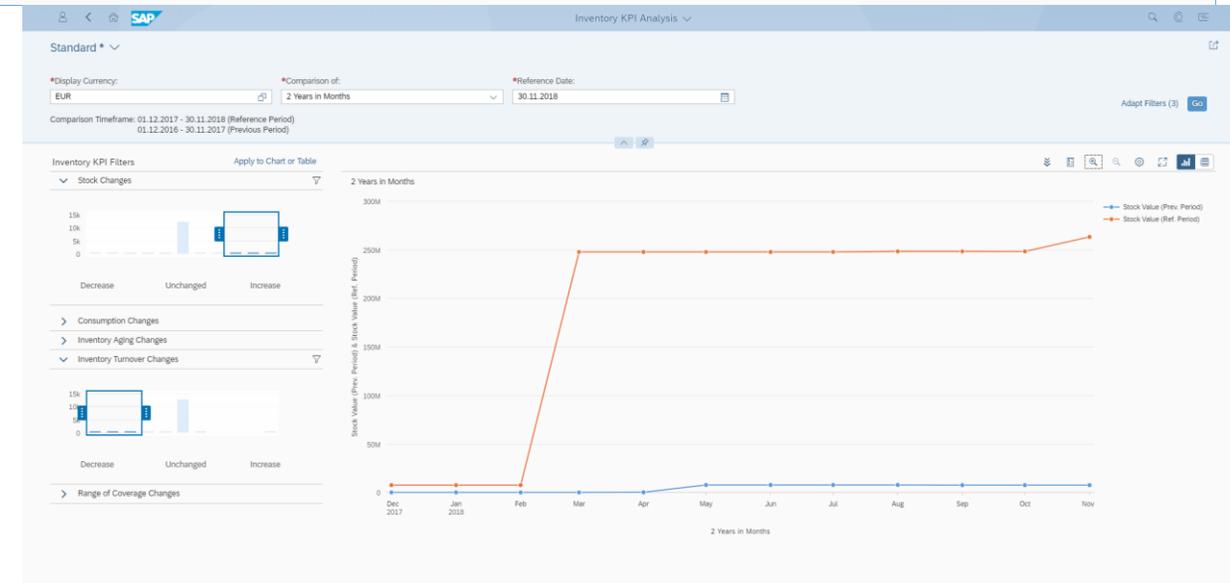
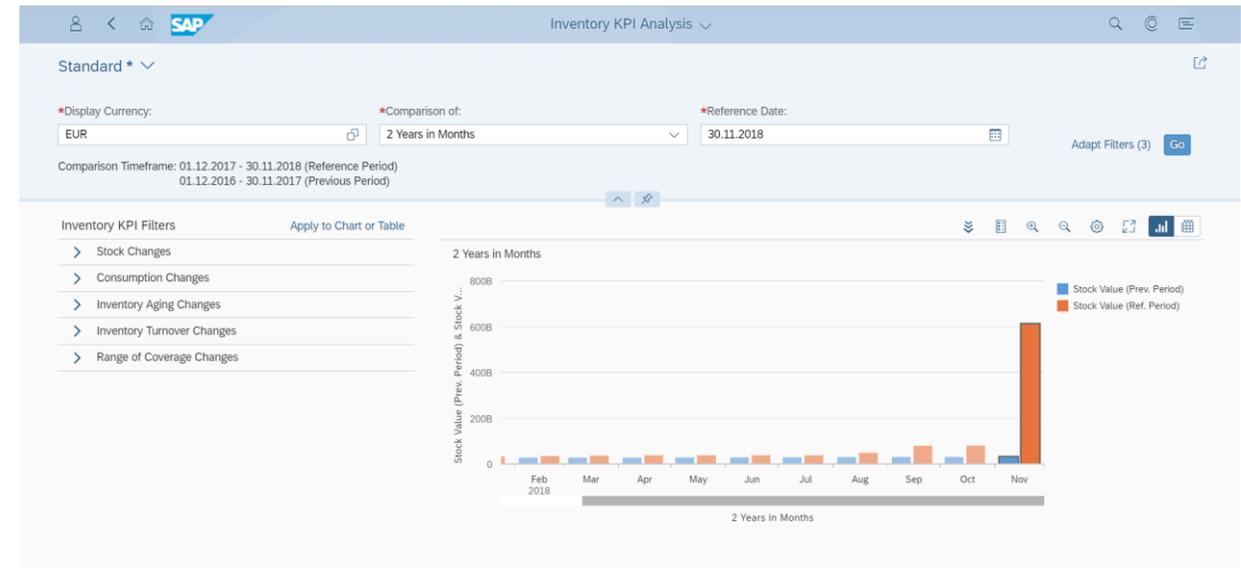
Real-time foundation



Manufacturing & Supply Chain

Inventory KPI Analysis

- Ensure inventory accuracy by checking inventory values as time series for comparable periods
- Identify potential outliers that could affect the fixed capital situation
- Display time series as a chart or a table with further drill-down functionality
- Filter for outliers and display only these particular stocks
- The app offers 5 KPI filters that display potential outliers in a frequency distribution chart for e. g. Stock Changes, Consumption Changes etc.



Agenda

Welcome

ONE SAP S/4HANA & SAP S/4HANA Cloud Positioning

SAP S/4HANA Cloud for Manufacturing & Supply Chain

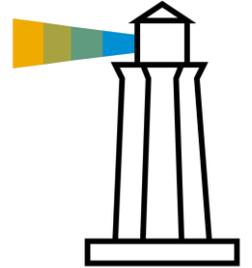
- **Core Processes**
- **Key Highlights**
- **1905 Release Highlights**



Where to go for more information?

Q & A

Road maps



Related product road maps available on sap.com/roadmaps:

- SAP S/4HANA

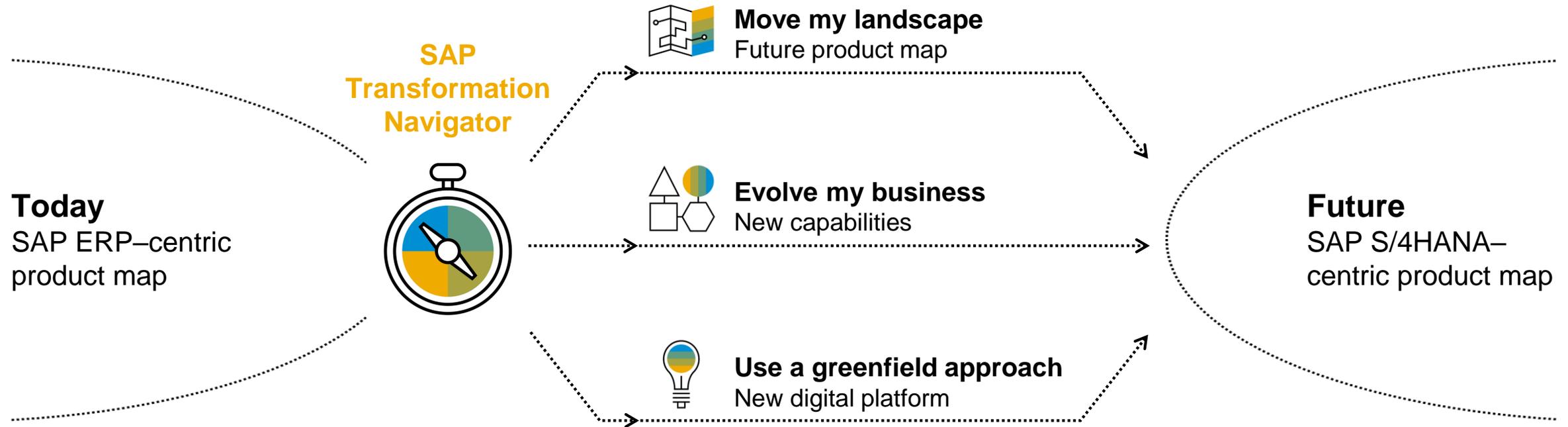
- SAP S/4HANA Cloud

The screenshot shows the SAP S/4HANA Product Road Map page. The header includes the SAP logo and navigation links: Products, Industries, Services and Support, Training, Community, Developer, Partner, About. The main heading is "SAP S/4HANA" with a "Start your trial" button. Below the heading is a navigation bar with "Overview", "Capabilities", "Technical Information", "Apps & APIs", "Implement", "Partner", "Support", "Training", and "Communi". The main content area features a "Product Road Map" section with a road sign icon and the text: "SAP S/4HANA Road Map. View the SAP S/4HANA Road Map to learn how the capabilities of SAP S/4HANA are planned to progress over time." A "View the latest SAP S/4HANA road map >" link and a "Contact Us" button are also present. The footer contains a "Menu" with categories like Finance, Digital Supply Chain, Research and Development, Sourcing and Procurement, Sales, Industries, Product Scope, and Software Accessibility. A dark sidebar on the right lists "About SAP" (Company Information, Worldwide Directory, Investor Relations, Careers, News and Press) and "Site Information" (Privacy, Terms of Use, Legal Disclosure, Copyright, Trademark).

The screenshot shows the SAP S/4HANA Cloud Product Road Map page. The header includes the SAP logo and navigation links: Products, Industries, Services and Support, Training, Community, Developer, Partner, About. The main heading is "SAP S/4HANA Cloud" with "Request a quote" and "Get a free trial" buttons. Below the heading is a navigation bar with "Overview", "Capabilities", "Pricing", "Technical Information", "Apps & APIs", "Implement", "Partner", "Support", "Training", and ">". The main content area features a "Product Road Map" section with a road sign icon and the text: "SAP S/4HANA Cloud Road Map. View the product road map to learn how the capabilities of SAP S/4HANA Cloud are planned to progress over time." A "View the latest SAP S/4HANA Cloud road map >" link and a "Contact Us" button are also present. The footer contains a "Menu" with categories like Release Highlights, Finance, Sourcing and Procurement, Sales, Professional Services, Enterprise Portfolio and Project Management, Research and Development, Manufacturing and Supply Chain, and Additional Features. A dark sidebar on the right lists "About SAP" (Company Information, Worldwide Directory, Investor Relations, Careers, News and Press) and "Site Information" (Privacy, Terms of Use, Legal Disclosure, Copyright, Trademark).

SAP Transformation Navigator

Supporting your digital transformation



SAP Transformation Navigator provides you with clear guidance to chart the Intelligent Enterprise:

- Based on your currently used products, this free self-service produces an individualized report highlighting business value, detailing integration to SAP S/4HANA and other cloud products, and explaining transformation services and license information.
- With the new time-slider feature, you can even identify the best point in time to engage in your journey to becoming an intelligent enterprise.
- Discover the tool and your transformation path at <https://support.sap.com/stn>.

Preparing for 1905: Next Steps



- Continue the conversation and get answers to your questions in the [SAP S/4HANA Cloud Customer Community](#)
- [Sign up](#) to watch other 1905 early release webinars live or on demand
- Listen to our on demand webinar on how to [get prepared for your quarterly release upgrade](#)



- View latest [SAP S/4HANA Cloud Release Info](#)
- View [upgrade schedule for SAP S/4HANA Cloud](#)
- View [SAP service level agreement](#)
- Read about [upgrade specific frequently asked questions](#)

SAP S/4HANA Cloud 1905: Preliminary What's New available



You can find the *Preliminary What's New document for SAP S/4HANA Cloud 1905* on the current Help Portal page of

[SAP S/4HANA Cloud 1905.](#)



SAP S/4HANA Cloud 1905 - What's New Viewer (Preliminary Version)

Disclaimer

Search

Line of Business Solution Area Type

638 entries

Line of Business	Solution Area	Solution Capability	Title
Asset Management	Environment, Health, and Safety	Incident Management (SAP S/4HANA)	Lean Incident Management Reporting (3FP)
Asset Management	Environment, Health, and Safety	Incident Management (SAP S/4HANA)	Incident Management
Asset Management	Maintenance Operations		Classifying Maintenance Plans
Asset Management	Maintenance Operations	Maintenance Execution	Preventive Maintenance (BJ2)
Asset Management	Maintenance Operations	Maintenance Execution	Integration with Asset Central Foundation (3YE)
Asset Management	Maintenance Operations	Plant Maintenance	Find Maintenance Items
Asset Management	Maintenance Operations	Plant Maintenance	Basic Cloud Printing in Asset Management
Asset Management	Maintenance Operations	Plant Maintenance	Mass Time Confirmations
Asset Management	Maintenance Operations	Plant Maintenance	Find Maintenance Plans
Asset Management	Real Estate Management	Portfolio and Lease Management	Lease-Out Accounting (21Q)

Where to go for more information?



Learn

[SAP S/4HANA Cloud Release Info](#)

Latest release highlights including videos and blogs



[Learning Journeys](#)

[Learning Room](#)

[Stay Current Program](#)

Learn more about [digital learning opportunities](#)



Engage

[SAP S/4HANA Cloud Customer Community](#)

Exclusive for existing customers & partners looking for deeper product knowledge and expertise



[SAP Community](#)

[SAP Help Portal](#)

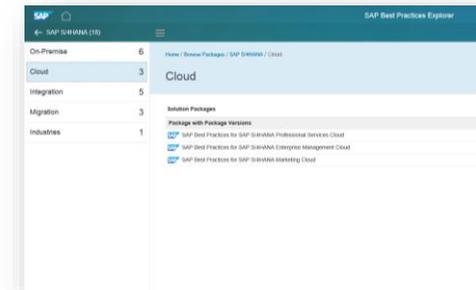
[Join the SAP S/4HANA Movement](#)



Implement

[Best Practices Explorer](#)

Benefit from predefined business processes & search, browse and consume SAP Best Practices



[SAP Transformation Navigator](#)

[Roadmap Viewer](#)

[SAP S/4HANA Cloud Trial](#)

Thank you.

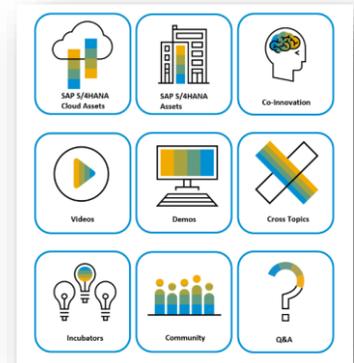


Dr. Gerhard Welker
SAP S/4HANA Product Management & Co-Innovation

[SAP S/4HANA Cloud for Manufacturing & Supply Chain – The Link Collection](#)
[SAP S/4HANA Cloud for Asset Management – The Link Collection](#)

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SAP S/4HANA Product Jam Group



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Where to go for more information?



Q & A