

Webinar Special

SAP S/4HANA CLOUD Public Edition and **Manufacturing support**

- SAP Qualified Partner-Packaged Solution
- Digital Manufacturing: Overview, for Execution, Resource Orchestration and Insights
- Extensibilities related to manufacturing



Presenters



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Digital Manufacturing Cloud Explained

Introduction	Qualified Package	Digital Manufacturing	Extensibilities
Questions			



Expert



SAP S/4HANA Cloud,
public edition



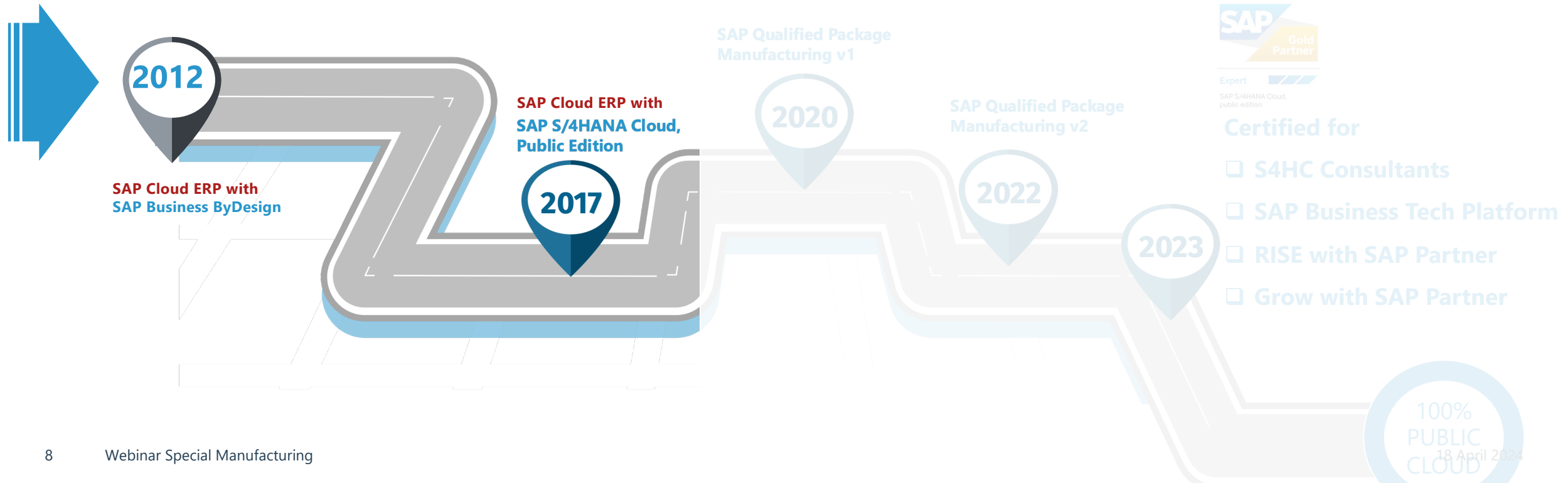
Our focus on S/4HANA Cloud **Public Edition**

Our core competency is harmonizing
SAP Best Practices with your required end-to-
end business processes

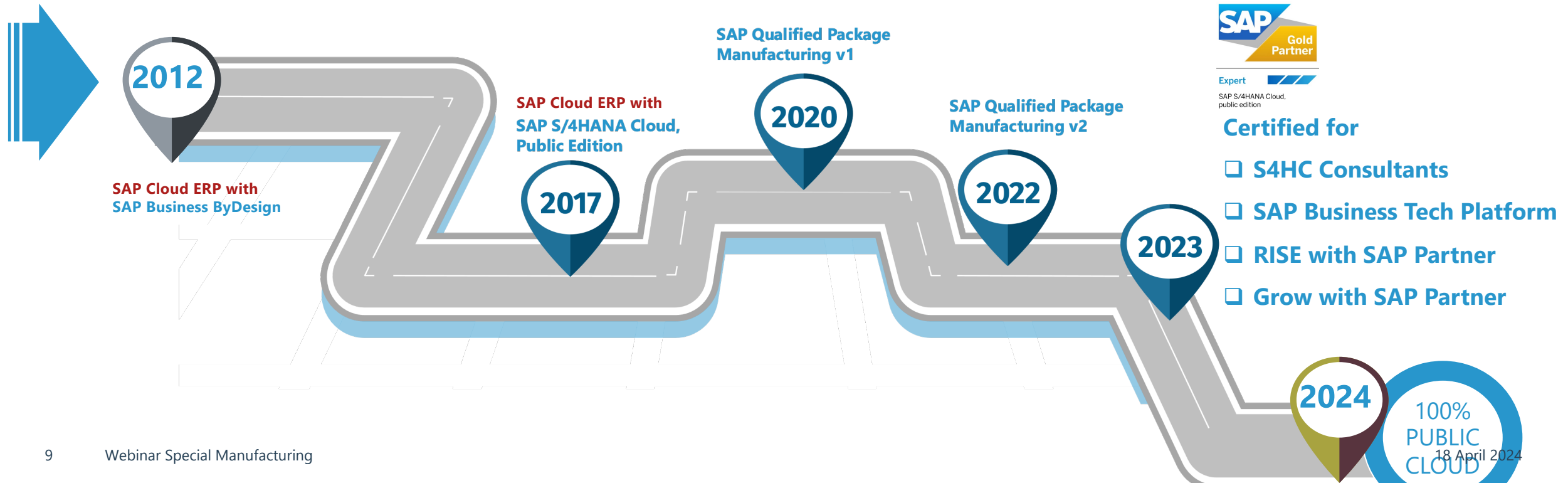
Our preferred method is to define a **Cloud
Mindset** and apply the "**fit-to-standard**" approach

Our goal is to establish a transparent
operational landscape, facilitating the seamless
adoption of future innovations of SAP's Public
Cloud solutions.

Our SaaS-ERP Footprint with SAP Public Cloud ERP Solutions

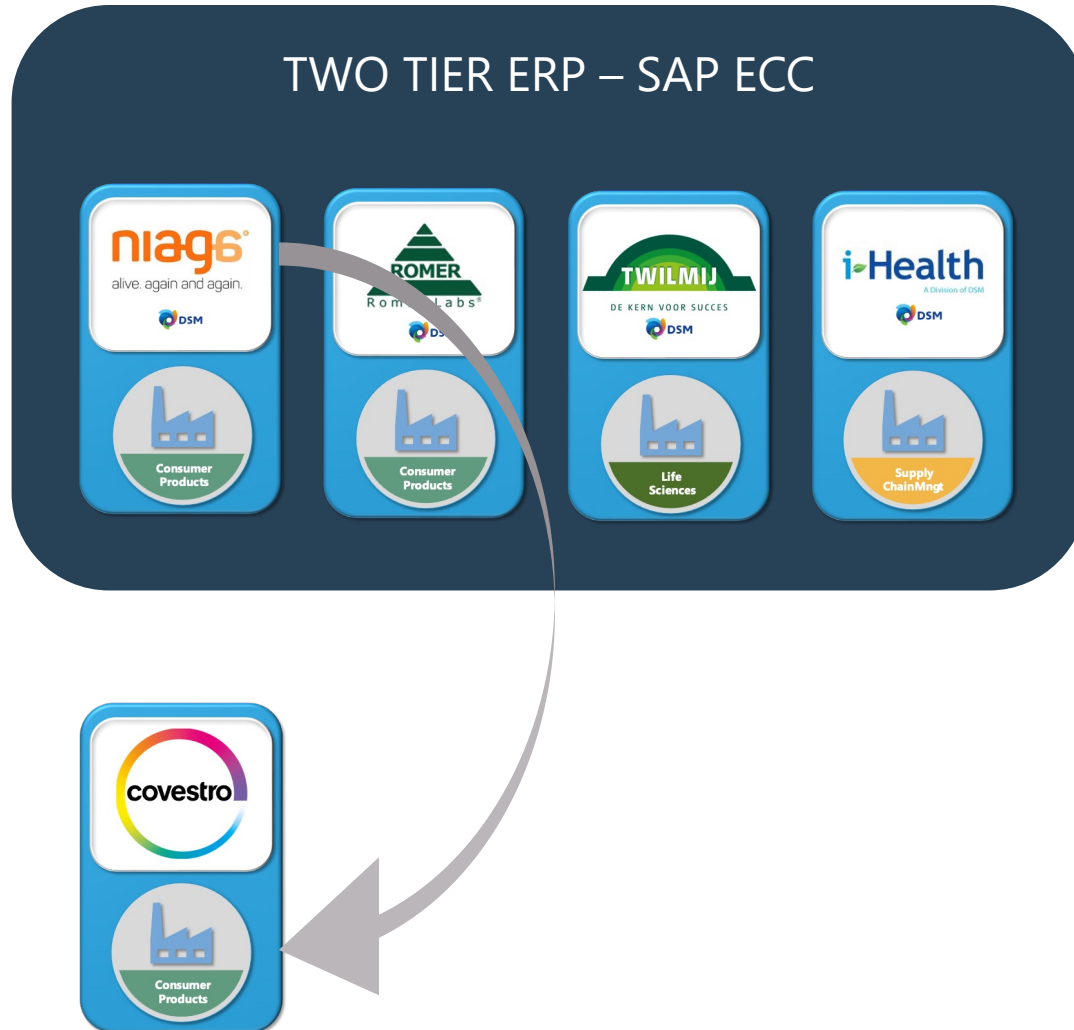


Our SaaS-ERP Footprint with SAP Public Cloud ERP Solutions



Our SaaS-ERP Footprint

with SAP Public Cloud ERP & Manufacturing



MIGRATION SAP ECC



NEW BUSINESS



NEW BUSINESS



YScheer

THE PROCESS EXPERTS



Expert



SAP S/4HANA Cloud,
public edition

SAP® Qualified
Partner-Packaged Solution

SAP awarded Scheer as
SAP Expert Partner
for **SAP S/4HANA Cloud**
because of **the high number**
of certified consultants
and **many successful go-lives**



SAP S/4HANA Cloud Public Edition

What's inside the package

Adopt

SAP Partner Qualified Package

This solution is deployed based on a predefined scope, leveraging the use of pre configuration, accelerators, methodologies and tailored services to help customers run simple and realize a rapid time to value with reduced risks and a predictable outcome.

Solution

Approach

SAP® Qualified For Manufacturing

Partner-Packaged Solution

Org Structure	Process Scope	Functions Scope	Master Data & Reports Scope	Technical Scope	Out of Scope
Team	Change Mngt	Plan	Out of Scope	Docs	Support

Digital Manufacturing Cloud Explained

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Manufacturing Package Content



You get

Software as a Service

- SAP S/4HANA Cloud – Public Edition
- SAP Business Technology Platform

Including

- Starter System
- 3-Tier system: Dev, Quality, Production
- 1 of 58+ Localizations + language
- 2 major updates (YY.02 – YY.08)

Together we do

Config Primary process of

- Order-to-Cash
- Plan-to-Produce
- Source-to-Pay
- Record-to-Report

Plus support for

- Master Data & Migration
- Realization 5 KPIs plus Reports
- Testing, Periodic update
- First-period Closing

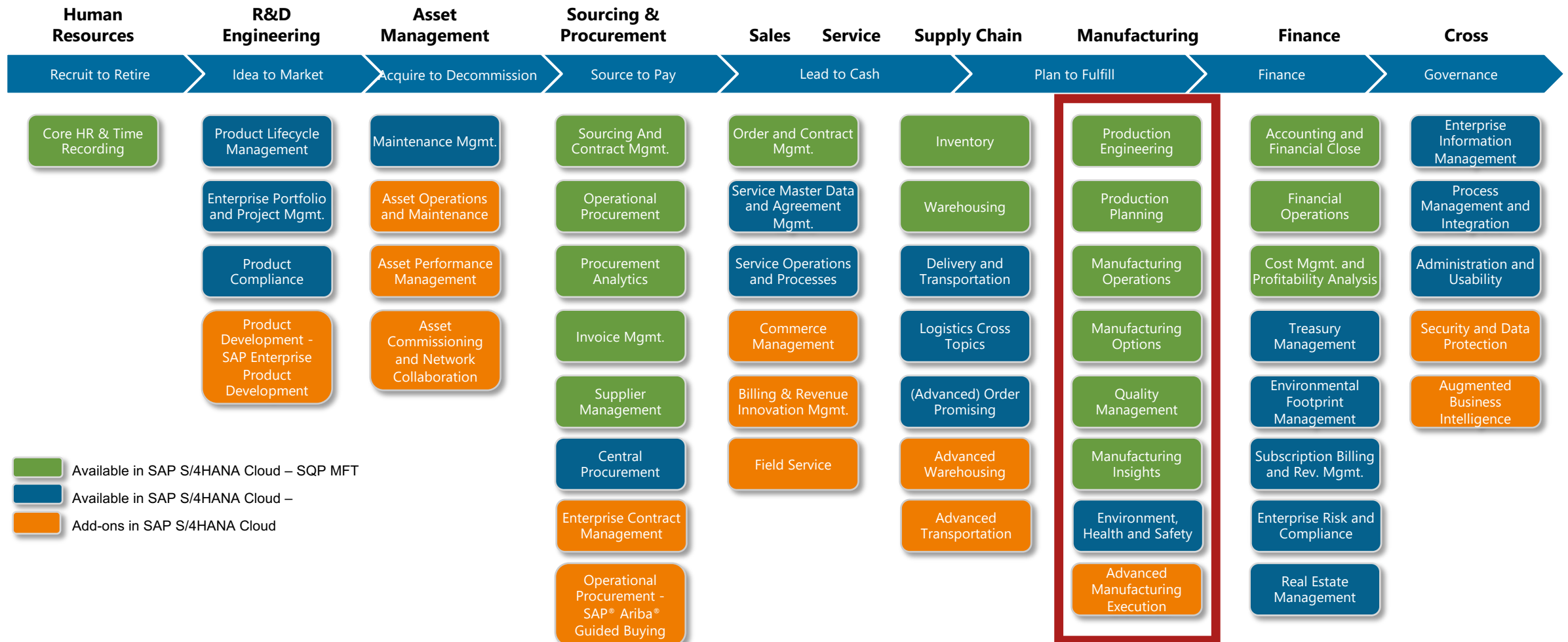
Using SAP Activate and our Accelerators

Following SAP Activate

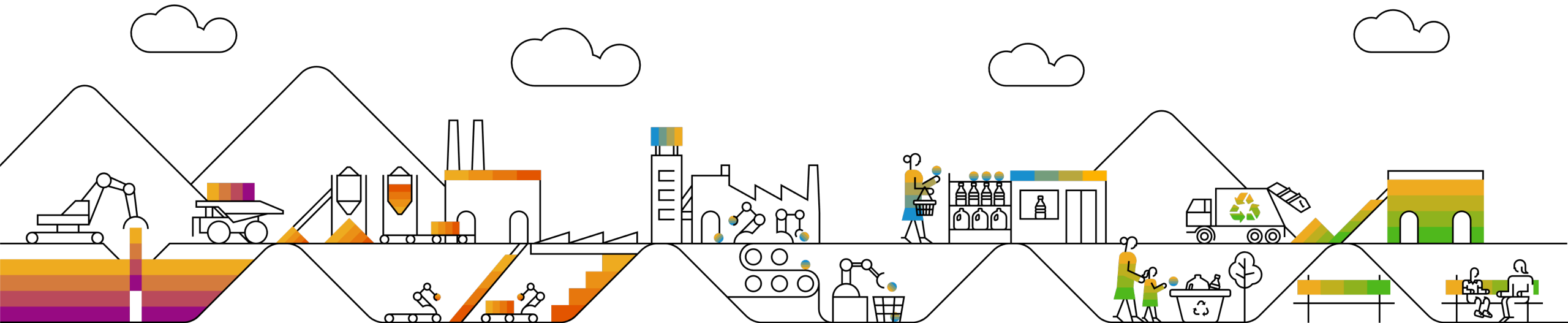
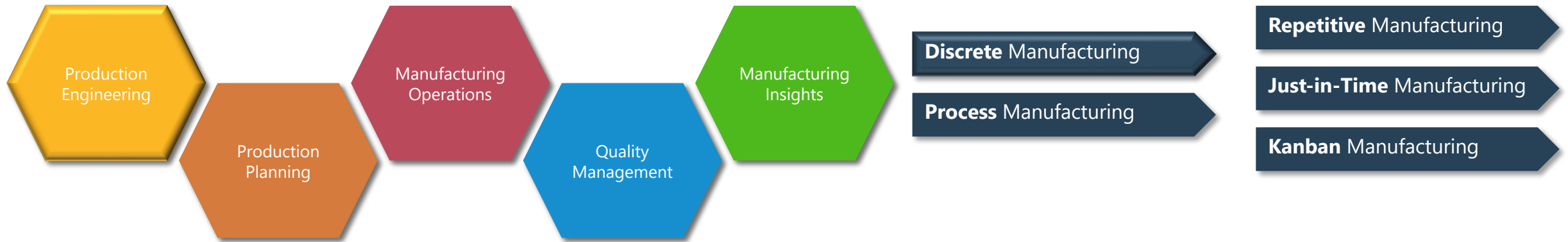
- Scheer Process Driven SAP Implementation Approach driven by SAP Activate
- Industry model for quick scope confirmation
- Workshops for rapid Best Practice Adoption
- Working instructions
- Data Migration & Methods and Tools Support
- Test Procedure for Quality and Acceptance

SAP Qualified Partner Packaged Solution for Manufacturing

High-Level Scope of Functionality

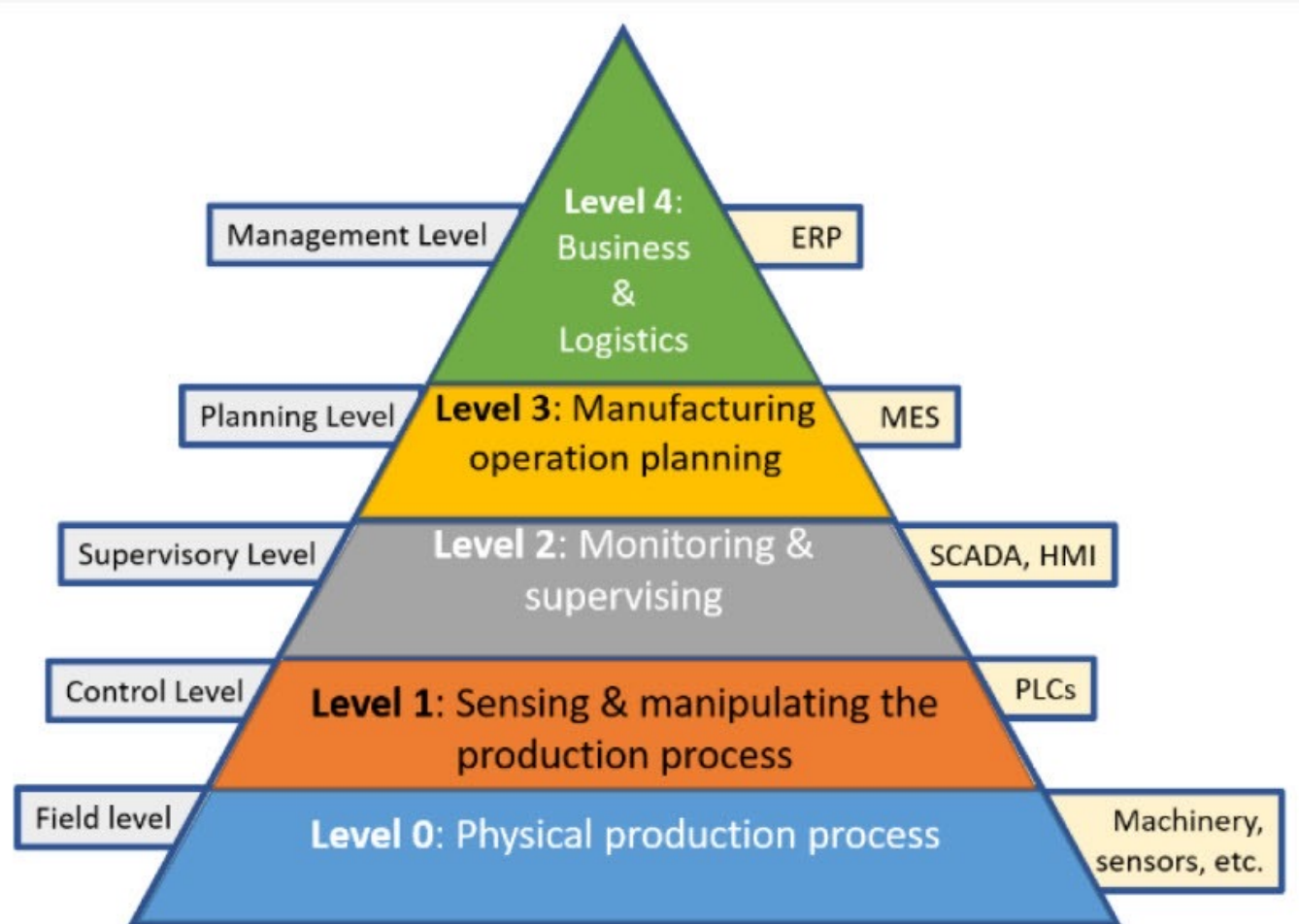


SAP S/4HANA Cloud – Manufacturing



SAP Qualified Partner Packaged Solution for Manufacturing

Automation Pyramid



SAP Qualified Partner Packaged Solution for Manufacturing

SAP S/4HANA Public Cloud VS Digital Manufacturing

Process	S4 Public Cloud	Digital Manufacturing	Side-By-Side (BTP Extensions)
Creation Manufacturing Order	X		
Production Planning (High Level)	X		
Goods Movements to production	X		
Financially tracking	X		
Optimize ERP with clean core based on customer requirements with API / BTP	X		X
Shopfloor Execution +digital work instructions		X	
Automatic Scheduling		X	
Labor Scheduling (Teams)		X	
PLC Plant Connectivity		X	

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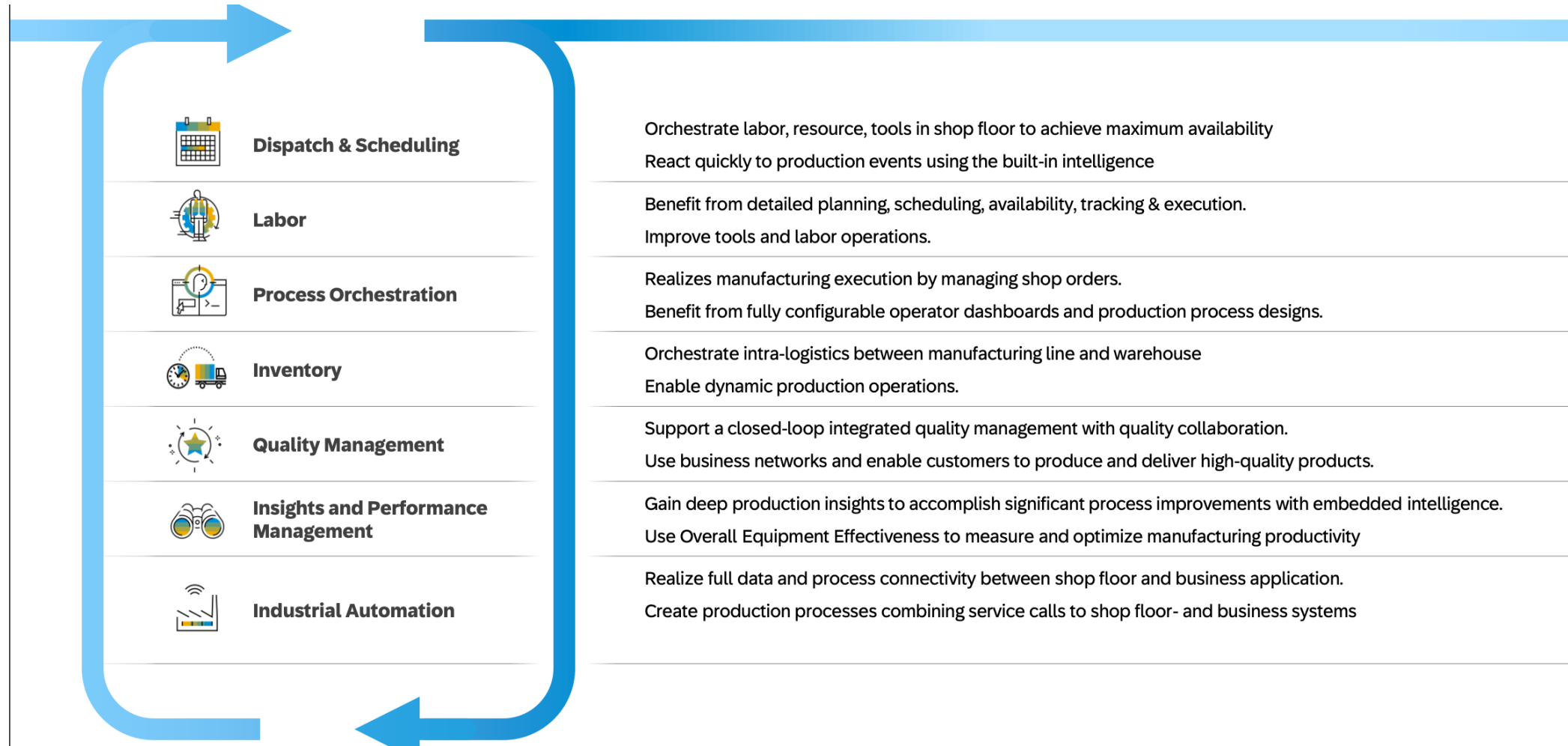
Digital Manufacturing

Introduction

 Scheer

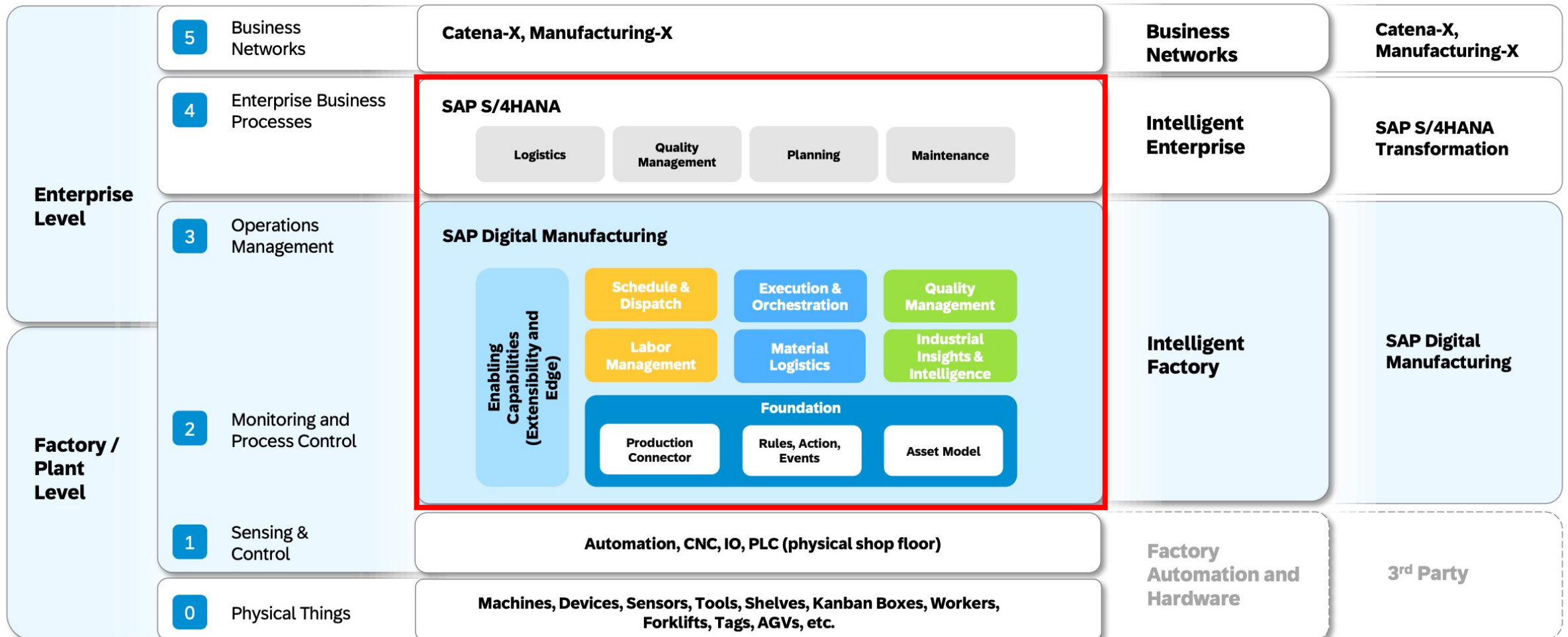
Digital Manufacturing Cloud

Capabilities Overview



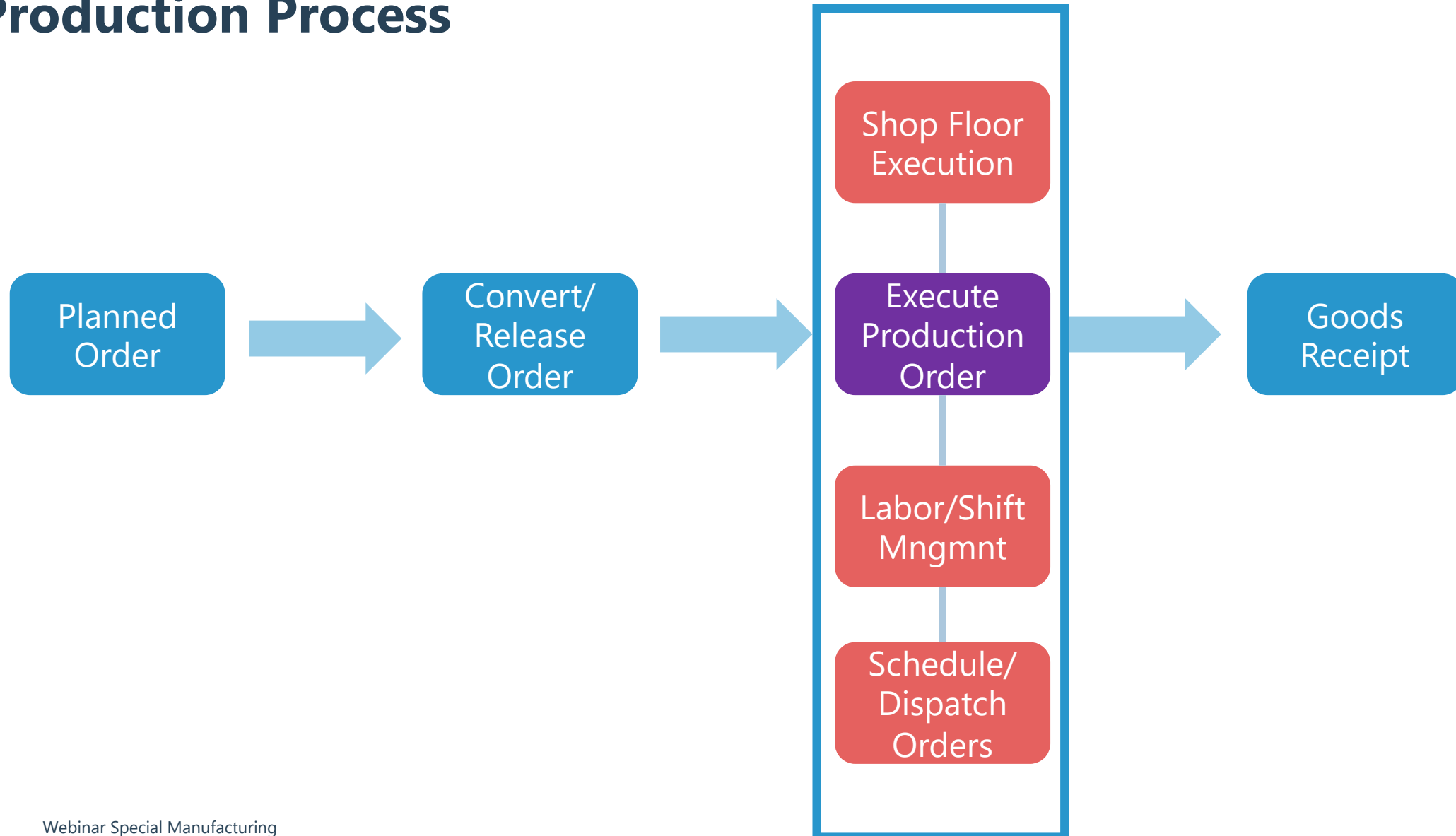
Digital Manufacturing

DM within the SAP landscape

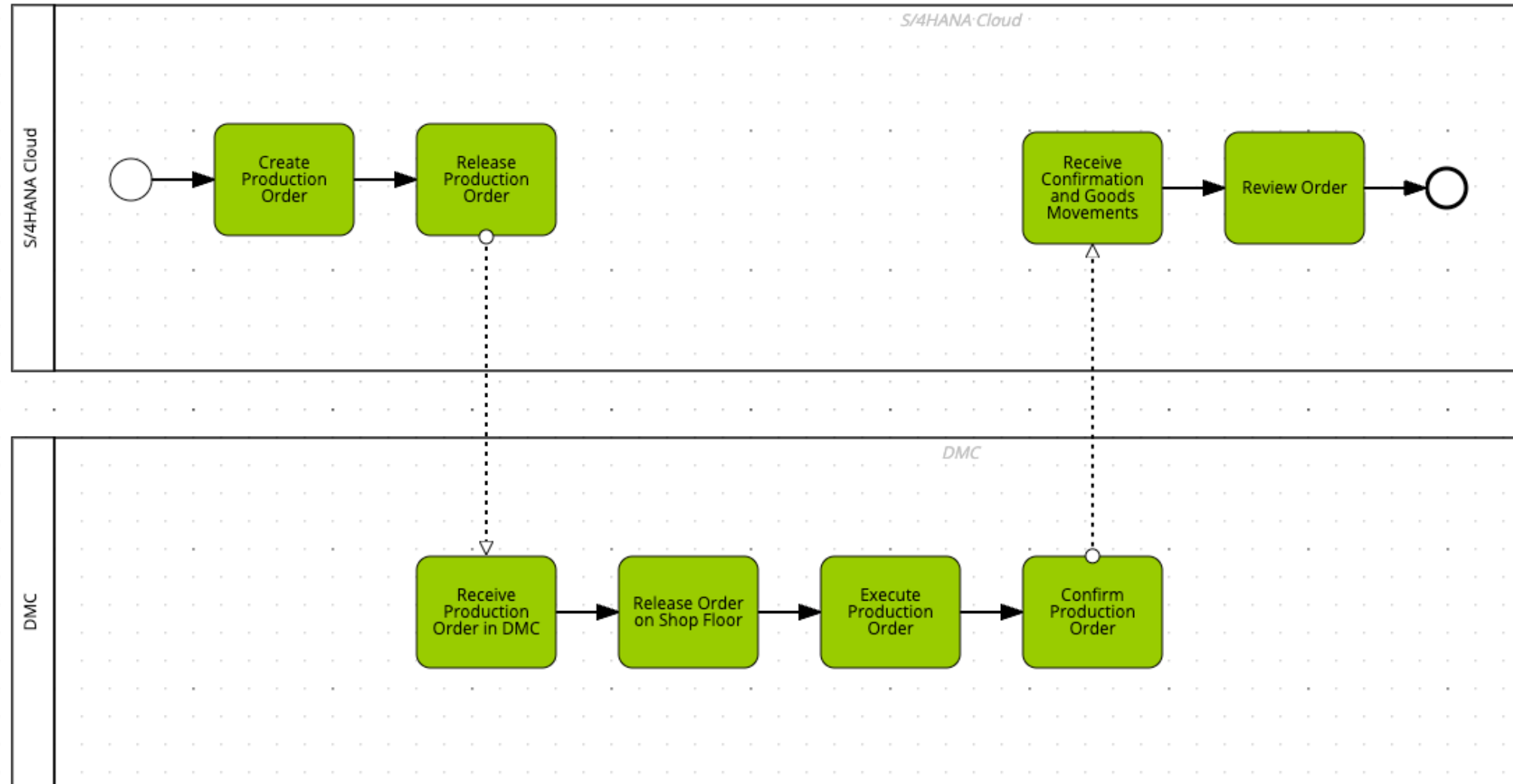


Digital Manufacturing Cloud Production Process

DMC



Process



DMe – For Execution

Digital Manufacturing

YScheer

Manufacturing execution system (MES) that optimizes production processes integrates business and manufacturing operations, and ensures efficient, high-quality production in real-time, enabling manufacturers to achieve operational excellence and flexibility.

DMe - Execution:

Roles for Execution



Production Supervisor



Manage and Release Orders

Scheduling

View Reports



Production Operator



Record SFC – Start/Complete

View Work Instructions

Report Nonconformance

Collect Data

Raise Alert

- Support Operators with flexible POD
- Configure and design POD based on user requirements
- Guide operators through work instructions
- Allows for data collection, defects logging
- Order completion / Trigger goods movements

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DMCe - Execution:

Production Operator Dashboard (POD)

Work List (22)

SFC	Operation Activity	Order	SFC Qty	Status	Order Planned Start Date	Order Planned Completion Date	
371010	5000017-1-0010	123456787	7	◆	Nov 29, 2023, 2:18:20 PM	Nov 30, 2023, 2:18:25 PM	>
371011	1000585-000000-0040	1000585	1	●	Nov 30, 2023, 12:00:00 AM	Dec 6, 2023, 12:00:00 AM	>
371015	1000600-000000-0010	1000600	2	■	Dec 6, 2023, 12:00:00 AM	Dec 8, 2023, 12:00:00 AM	>
371016	1000602-000000-0010	1000602	10,000	◆	Dec 6, 2023, 12:00:00 AM	Mar 3, 2025, 12:00:00 AM	>
371017	1000603-000000-0010	1000603	5,000	◆	Dec 7, 2023, 12:00:00 AM	Jul 24, 2024, 12:00:00 AM	>
371021	1000629-000000-0010	1000629	700	◆	Dec 12, 2023, 12:00:00 AM	Dec 18, 2023, 12:00:00 AM	>
371023	1000630-000000-0030	1000630	700	●	Dec 11, 2023, 12:00:00 AM	Dec 15, 2023, 12:00:00 AM	>
371024	1000627-000000-0010	1000627	390	◆	Dec 12, 2023, 12:00:00 AM	Dec 18, 2023, 12:00:00 AM	>
371025	1000637-000000-0030	1000637	50	●	Dec 18, 2023, 12:00:00 AM	Dec 20, 2023, 12:00:00 AM	>
371026	1000638-000000-0040	1000638	10	●	Dec 12, 2023, 12:00:00 AM	Dec 14, 2023, 12:00:00 AM	>

Resources

ASSEMBL2	Enabled	✎
BOTTLING	Enabled	✎
Default Capacity 1	Enabled	✎
Machine 1	Enabled	✎
Machine 1	Enabled	✎
MIXING	Enabled	✎
Packing		
PROD2		

Main Page / Execute

🕒 10:40:20

💬 0

✓ Start

📄 Wijzig lijn status

🔍 Materiaal aanvragen

📋 Stuklijst

✓ Complete

Operation Activity List (5)

<input type="checkbox"/>	Operation Activity/Step ID	Activity Description	Status Icon	Qty in Queue	Qty in Work	Qty Complete	Split ID	Split Quantity	Display	Planned Start Date
<input type="checkbox"/>	1000630-000000-0010/0010	Ponsen	✓	0	0	1,400			false	Dec 12, 2023, 9:15:00 AM
<input type="checkbox"/>	1000630-000000-0020/0020	Walsen	✓	0	0	1,400			false	Dec 13, 2023, 7:00:00 AM
<input type="checkbox"/>	1000630-000000-0030/0030	Smeren	●	700	0	0			false	Dec 13, 2023, 10:58:30 AM
<input type="checkbox"/>	1000630-000000-0040/0040	Laswerk		0	0	0			false	Dec 13, 2023, 12:20:37 AM
<input type="checkbox"/>	1000630-000000-0050/0050	Powder coating		0	0	0			false	Dec 14, 2023, 7:20:14 AM

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DMo - for Resource Orchestration

Digital Manufacturing

Functionality that enables supervisors to control operations and monitor events on the shop floor.

YScheer

DMCo - Resource Orchestration

Labor Scheduling

- Manage shifts and labor considering labor qualification and certification
- Assign labor to work centers
- Unavailability of workers reflected in the schedule board
- Send schedule to relevant person through easy email generation
- Only see workers under your supervision

Capacity

160

hrs

Demand (Planned)

1.28

hrs

Demand (Scheduled)

29.88

hrs

Work Center Allocation

160

hrs

Absent

0

hrs

NIGHT

40

hrs

EVENING

40

hrs

DAY

Shift Plan for CW 51 - 2023

All Shifts

All Work Centers

Assign Unavailability

Assign Shift

Assign Work Center

Unassign





Reports

Monthly View

Labor (4/4)

Search

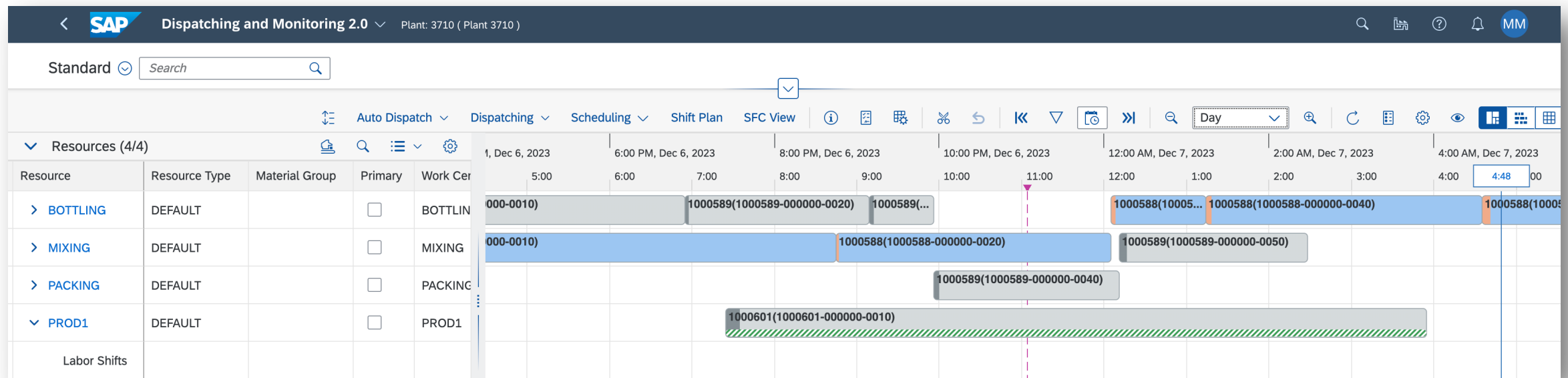
< Today > December 17, 2023 - December 23, 2023

<input type="checkbox"/>	User ID	First Name	Sun 17	Mon 18	Tue 19	Wed 20	Thu 21	Fri 22	Sat 23
<input type="checkbox"/>	 harold.vanpelt@scheer-group.com			PROD1 DAY	PROD1 DAY	PROD1 DAY	PROD1 DAY	PROD1 DAY	
<input type="checkbox"/>	 martijn.mook@scheer-group.com	Martijn		PROD1 DAY	PROD1 DAY	PROD1 DAY	PROD1 DAY	PROD1 DAY	
<input type="checkbox"/>	 michael.ong@scheer-group.com			PROD1 EVENING	PROD1 EVENING	PROD1 EVENING	PROD1 EVENING	PROD1 EVENING	
<input type="checkbox"/>	 telina.hornman@scheer-group.com			PROD1 NIGHT	PROD1 NIGHT	PROD1 NIGHT	PROD1 NIGHT	PROD1 NIGHT	

DMCe - Execution:

Dispatching and Monitoring

- Orchestrate labor and resources on the shop floor to achieve maximum availability
- React quickly to unexpected events
- Dispatch and sequence operations
- Reflect reality by visualizing high-priority orders, machine breakdowns, missing labor, production progress.





DMi - for Insights

Digital Manufacturing

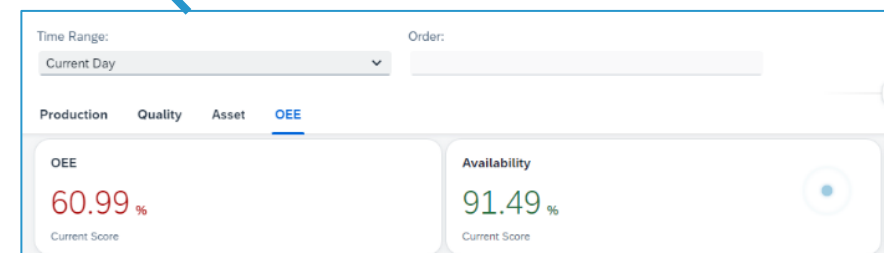
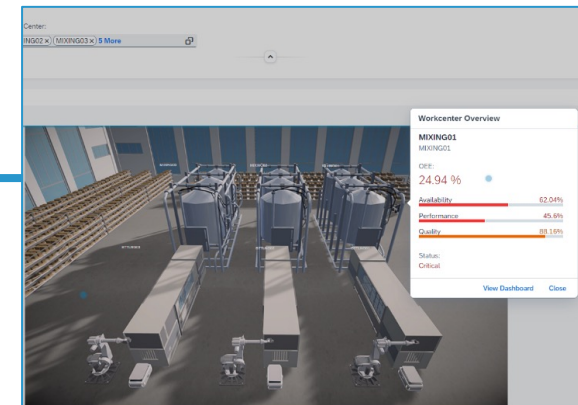


To enhance manufacturing intelligence and performance by providing real-time visibility into production, improving operational efficiency, and enabling smarter decision-making across the manufacturing process.

DMi - Insights

Key Capabilities

- Gain insights on performance and productivity across plants, work centers, resources, etc
- Utilize data from shop floor systems
- Use pre-delivered dashboards or create your own
- Live production visualization & monitoring
- Alert management: alert overview, notification, KPIs
- Embedded Overall Equipment Effectiveness (OEE)
 - Optimizing the machine efficiency by
 - utilizing OEE functionality
 - Measure productivity
 - Identify major contributors for losses
 - Real-time visibility via related KPIs
 - Detailed insights and root cause analysis



DMi - Insights

Manage Dashboards

Plant: 1010 (Process Industry Plant 1010)

Search In: "Apps"

Query Designer

Lets Build a Query!

Drag and drop data tokens from the right-side panel directly into this canvas. Use this method to select your data and begin your query.

Available Data

Manufacturing Data Objects

AlternateBOMComponent

BOM

BOMComponent

DataCollection

Downtime

Material

MaterialGroupMembers

NonConformance

OperationActivity

Order

OrderCustomData

Plant

Resource

Routing

RoutingStep

SFC

Overview Page

Plant (All)

Material (All)

0.7%

Build Conformance

93.4%

Orders Planned not Completed

90.5%

Delayed Start

93.8%

Delayed Completion

23

Resource Unscheduled Down

97,391

Count Orders Planned but not Complete

Order Performance

Orders completed per day

Scrapped % Yield per Material (Order)

Scrap % Yield WC per Workcenter

Scheer

Quantity Delivered Report

Plant (All)

Material (All)

QuantityDelivered per Material

Count per Plant

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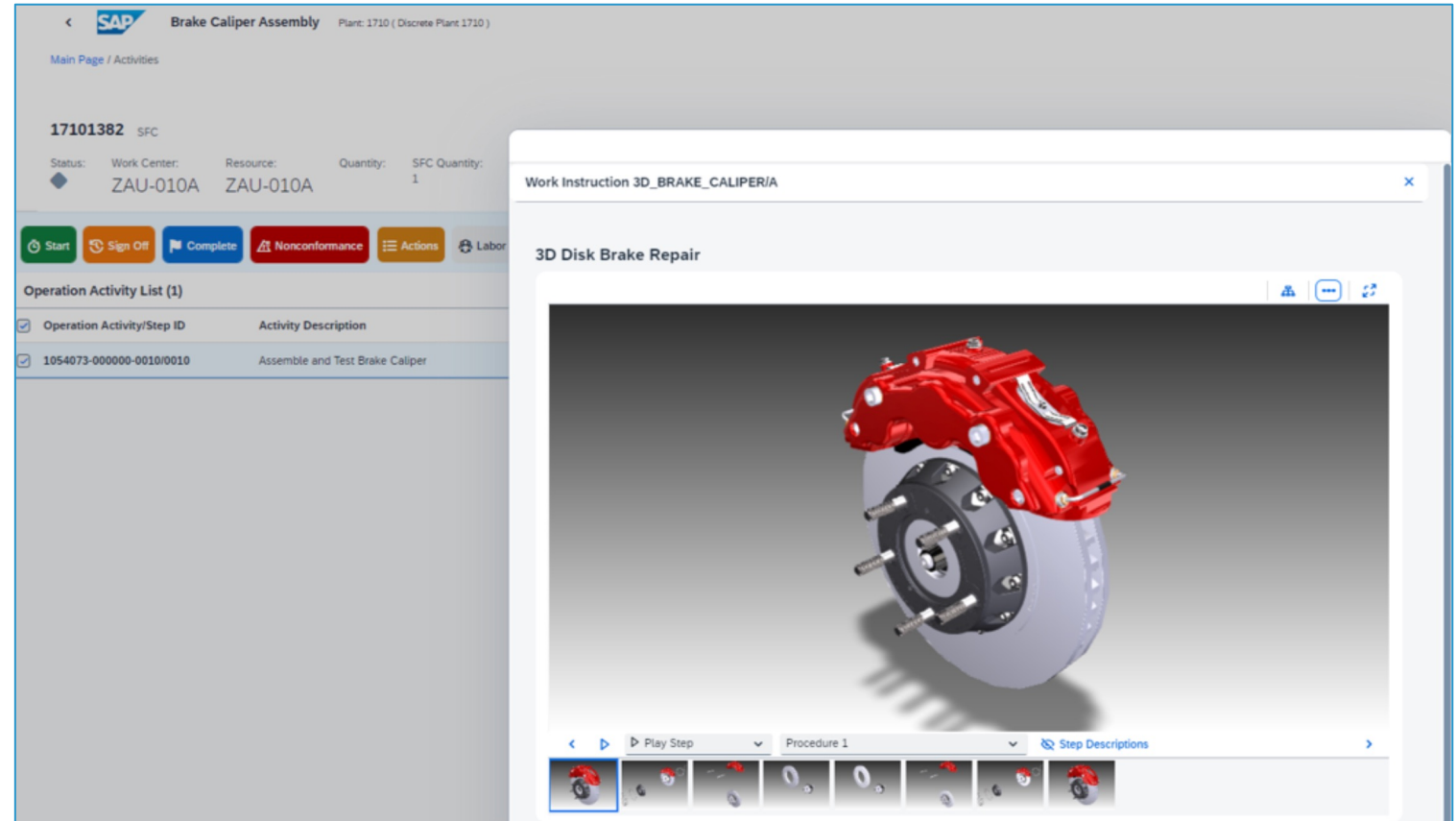
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Digital Manufacturing Cloud

Extensibility -Production process designer

UI Extensions/Custom Plugins

- Work instructions video
- Touchscreen interaction
- POD control via Voice commands




Digital Manufacturing Cloud

Extensibility - ML/AI capabilities

- Visual inspection processing
- Work instruction navigation through hand gestures
- Component recognition through live camera processing
- Build your own model

Preview Scenario Result



cast_ok_0_246 is most likely conformant (probability 80%).

Nonconformance/Conformance (2)

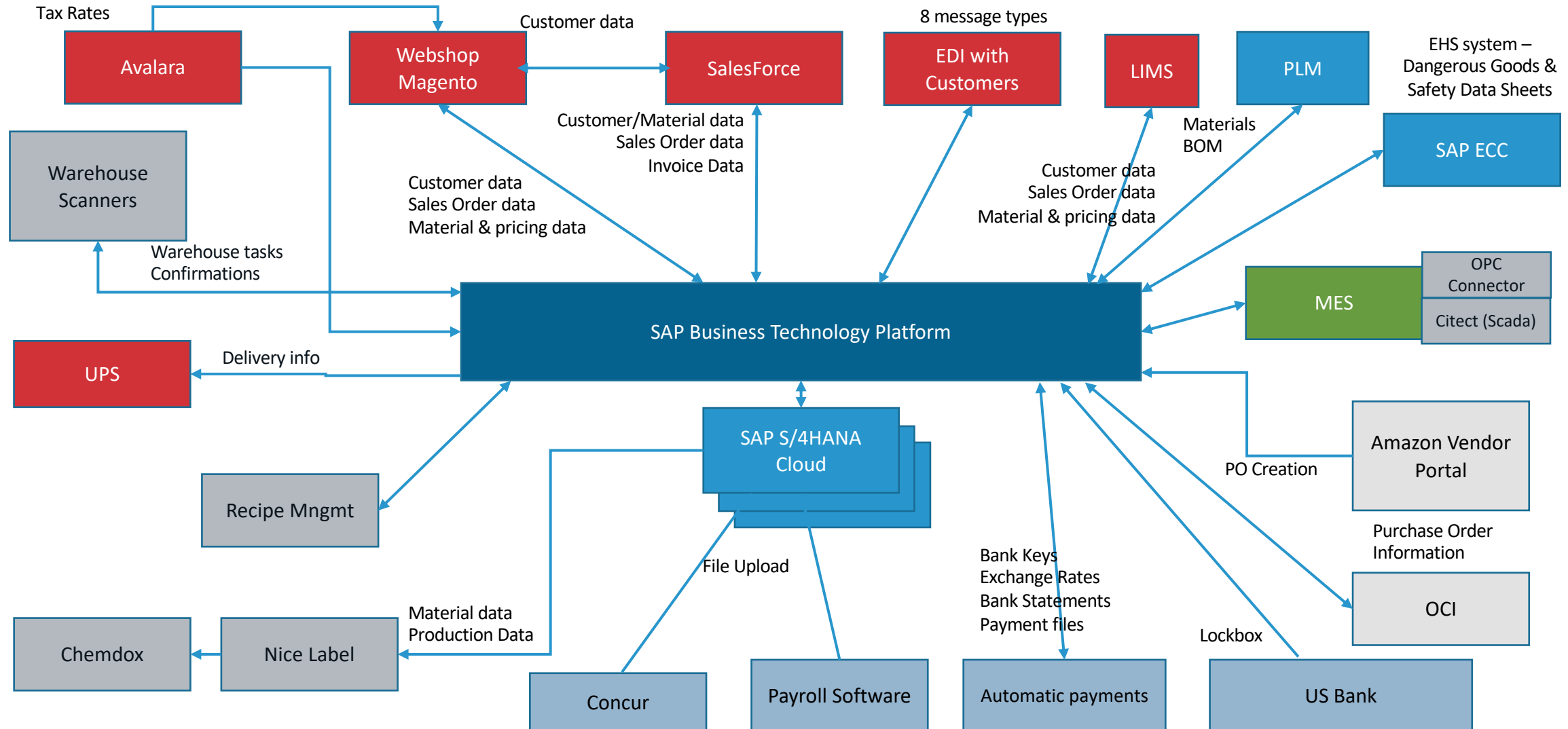
NC Code	Nonconformance/Conformance	Probability
ok_front	Conformance	80%
TEST_NC		
def_front	Nonconformance	20%

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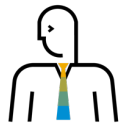
Integrations

Overview of realized integrations



SAP Extension Suite

Comprehensive extensibility capabilities to allow cloud lifecycle compliant innovation and differentiation whilst retaining the benefits of a clean digital core.



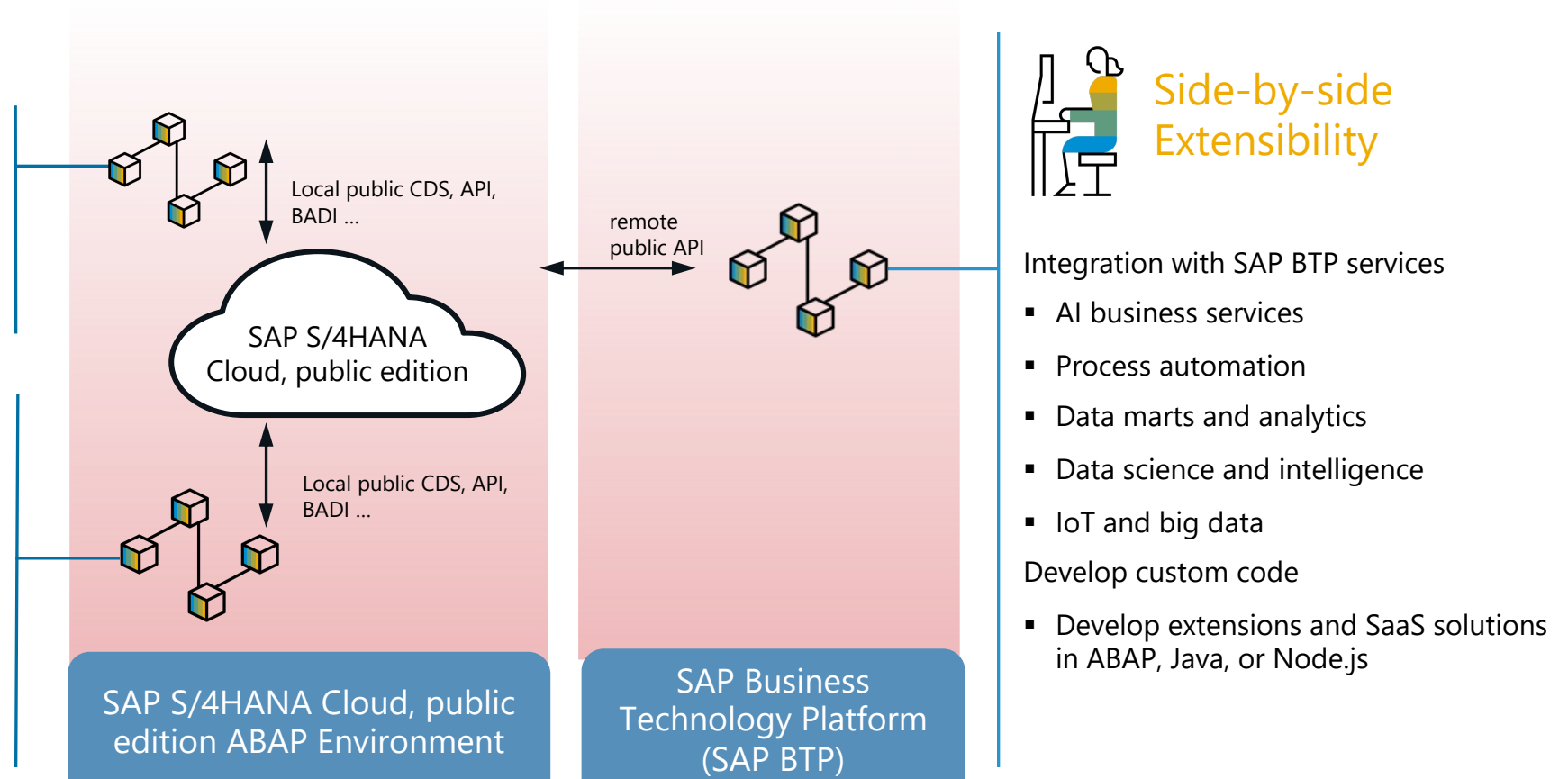
Key User Extensibility

- UI field layout, custom forms and templates
- Custom analytics via CDS views
- Custom Business Objects
- Custom business logic using Cloud BADIs



Developer Extensibility¹

- Develop custom ABAP code
- Extensions of SAP S/4HANA Cloud solutions
- Partner extensions
- Directly on SAP S/4HANA stack

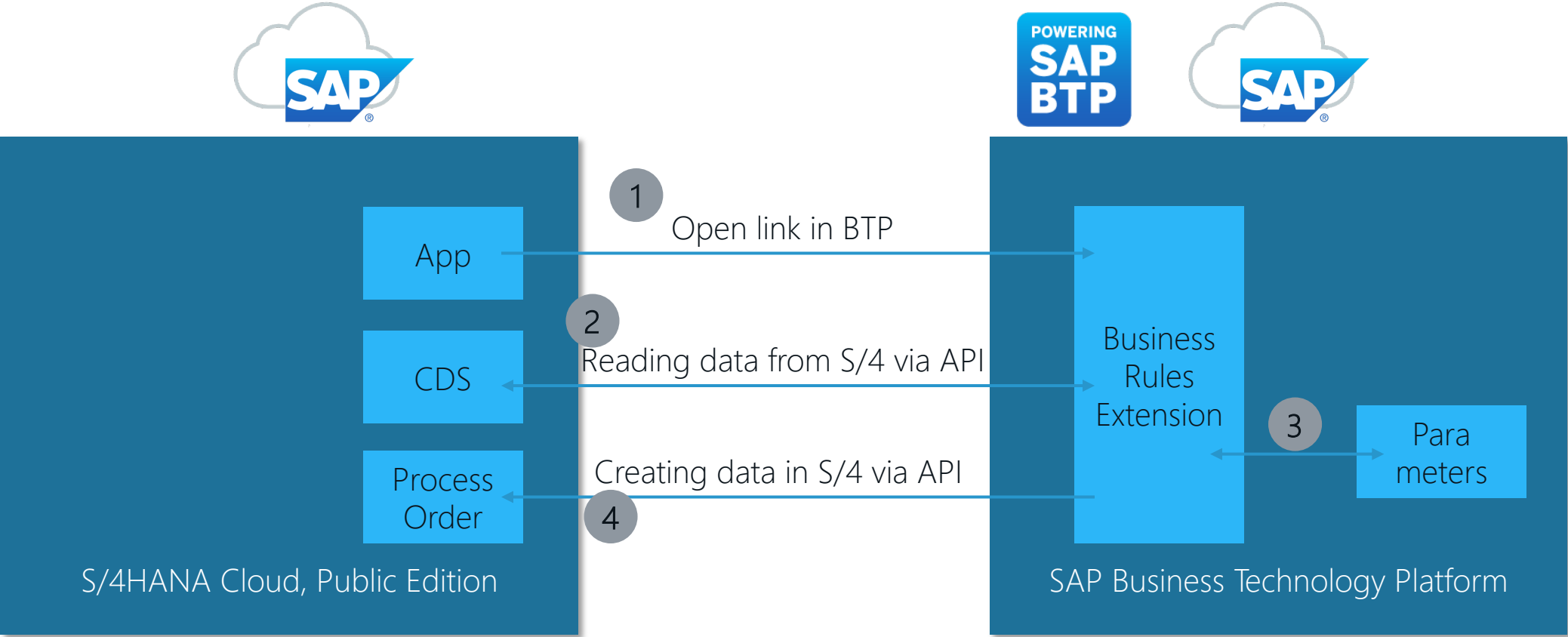


EXTENSIBILITY INTEGRATED IN SAP S/4HANA CLOUD, public edition

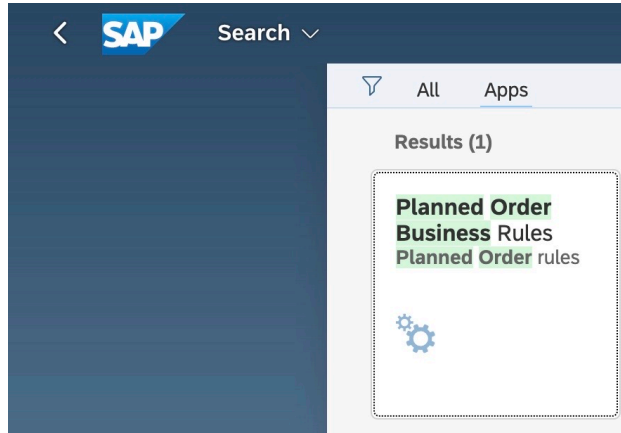
SIDE-BY-SIDE EXTENSIBILITY

¹ Only available for customers who use a 3-system landscape. Please contact your SAP Account Executive for more details.

Architecture Side-by-side extension regarding manipulating Bill of Material Process Order



Tiles in standard S4 direct link to BTP platform



Planned Order to Process Order Conversion Dashboard

Sales Order: Sales Order Item: Planned Order: Material: MRP Controller:

End Date:

Start Wissen

Planned Orders (2)

<input checked="" type="checkbox"/>	Planned Order	Material	Sales Order	Production Version	Production Line	Customer Name	MRP Controller	Planned Start Date	Planned End Date	Total Qty	Max Lot Size Qty	Family Code
<input checked="" type="checkbox"/>	4000066270	ACR0158Z20	74810	2	6		001	06/12/2022	07/12/2022	4000.000	4000.000	
<input checked="" type="checkbox"/>	4000066271	ACR0158Z20	74810	2	6		001	06/12/2022	07/12/2022	1000.000	4000.000	

Update Default Values **Process Order Convert**

Q & A

SAP S/4HANA Cloud, Public Edition

Schedule Webinar Specials 2024

Thursday June 13th : The effectiveness of process automation explained

- Using new technologies, like Artificial Intelligence and Robotic Process Automations
- Front Office (Sales, Procurement, Project Office) - Entering Orders, Planning, Forecasting, Automation
- Back Office (Finance, Logistics) - Following the Flow, anticipating
- Business Owners - manage the exceptions
- Management Team - steering the business



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Thank you for your Attention!

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