



**TAC** - SAP for Process Industries and Natural Resources Conference  
Designed for the metals, paper, packaging, chemicals, building materials and mining industries

## **Building Materials Track:**

**SAP Digital Supply Chain Strategy with focus on  
SAP S/4HANA Production Planning and Detailed Scheduling (PP/DS)**

Presented by Achim Rink / SAP  
Vienna June 19, 2024

Public



# Agenda

S/4HANA PP/DS in the **Big Picture** of APO Succession

Selected **Innovations** of S/4HANA PP/DS



**Synchronized Planning** Innovation

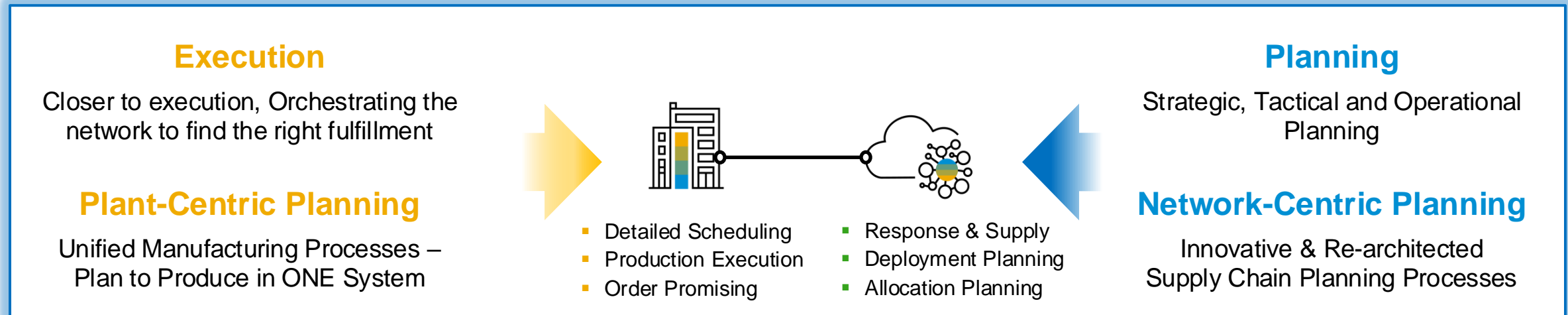
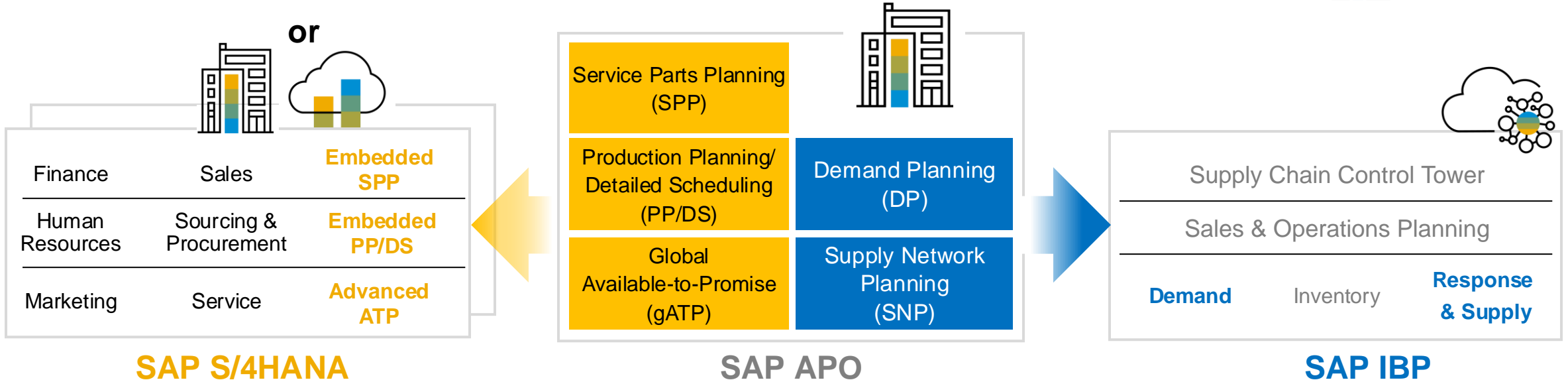
Roadmap **Outlook**

# Big Picture



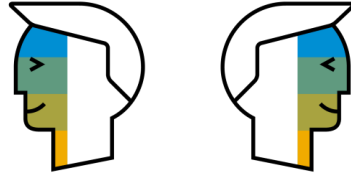
# APO Succession with S/4HANA and IBP

 = Cloud  
 = On Premise



# S/4HANA PP/DS – Two Value Propositions

**APO Succession**, Synchronized Planning



PP/DS as tool for operational planning

- close to ERP PP and execution
- **tightly integrated** with IBP for E2E supply chain planning

**ERP customers**, ease the use of PP/DS

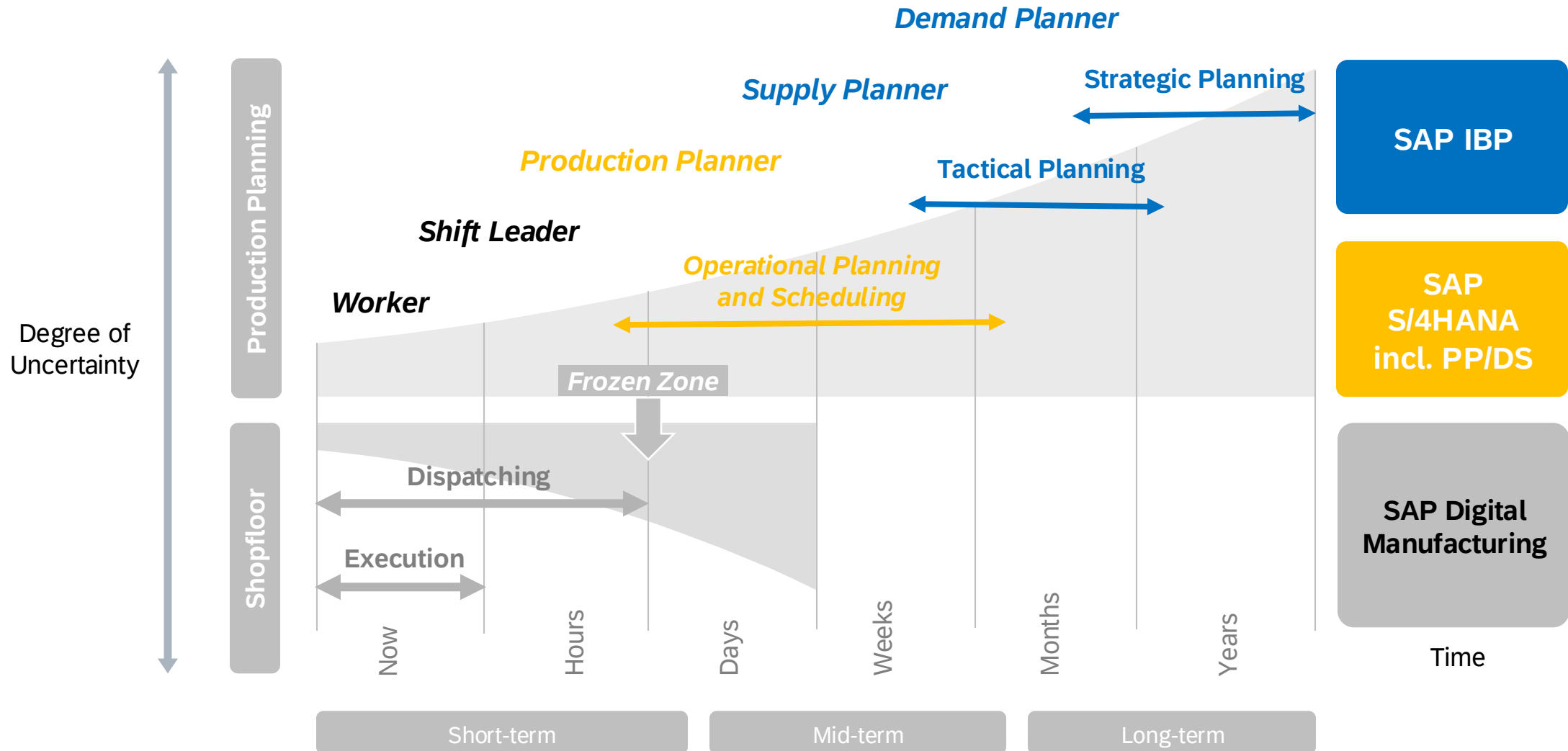


PP/DS part of ERP, going for **simplification**

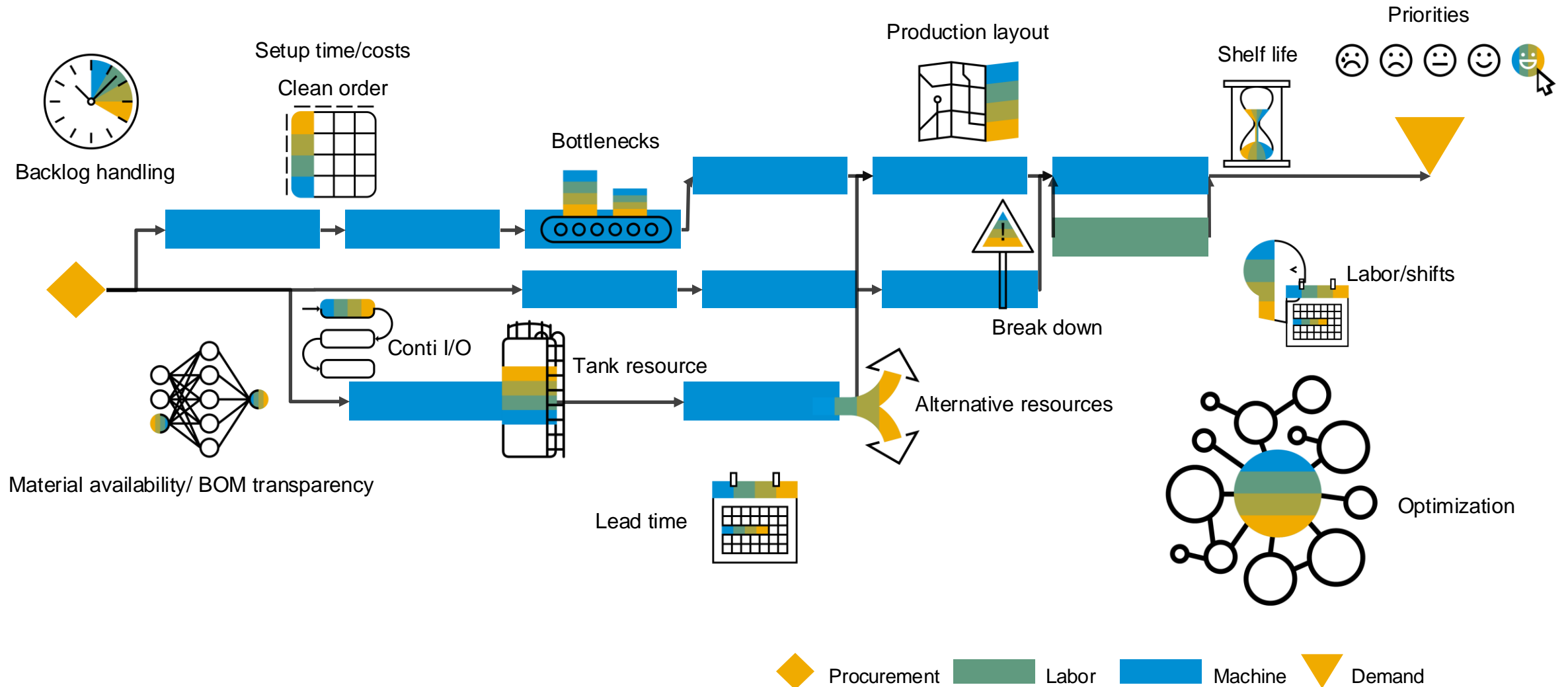
- One Master Data
- One MRP (Live) integration
- One technical system
- Simplified CIF integration

# Synchronized Planning along the Value Chain

Data seamlessly moves real time between applications with “hand offs” ownership transfer



# Real-Life Topics and Opportunities in a Production Environment



# PP/DS for Industries – Process Manufacturing Scenarios

## Consumer Products



- **Shelf-life** based / batch-management planning (MTS)
- **Complex material flow** (incl. tank constraints, resource networks)
- **Rhythm wheel**

## Life Science



- **Segmentation** (product attributes like country of origin)
- Complex material flow
- **Campaign planning**
- Rhythm wheel

## Chemicals



- Continuous & Batch Production
- **Logistics Constraints**, Planning, bulk/transport vessels
- **Campaign planning**

## Mill

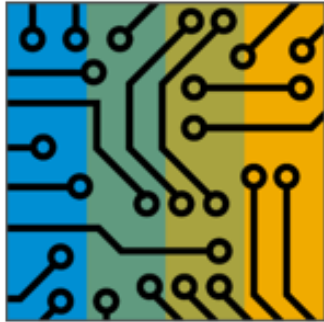


- Characteristic Based Planning, **Variant Configuration**
- Extensibility for partner / customer heuristics, optimizer developments et al (e.g. Trim-Optimization, LPP)
- **Capable to Promise (SBC)**



# PP/DS for Industries– Discrete Manufacturing Scenarios

## High Tech



- **Dynamic BOM, Time-Phased BOM**
- Contract Manufacturing/ Subcontracting
- **By-Products/ Co-Products**
- Dynamic Routing selection

## Automotive



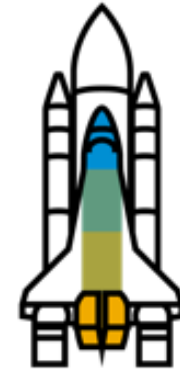
- **Model Mix Planning and Sequencing**
- Line structure for physical layout, capacity and restrictions

## Machinery



- Planning of **MTS- / MTO- CTO-** products
- Planning of **complex projects** & solution offerings
- Capable to Promise (SBC)

## A&D



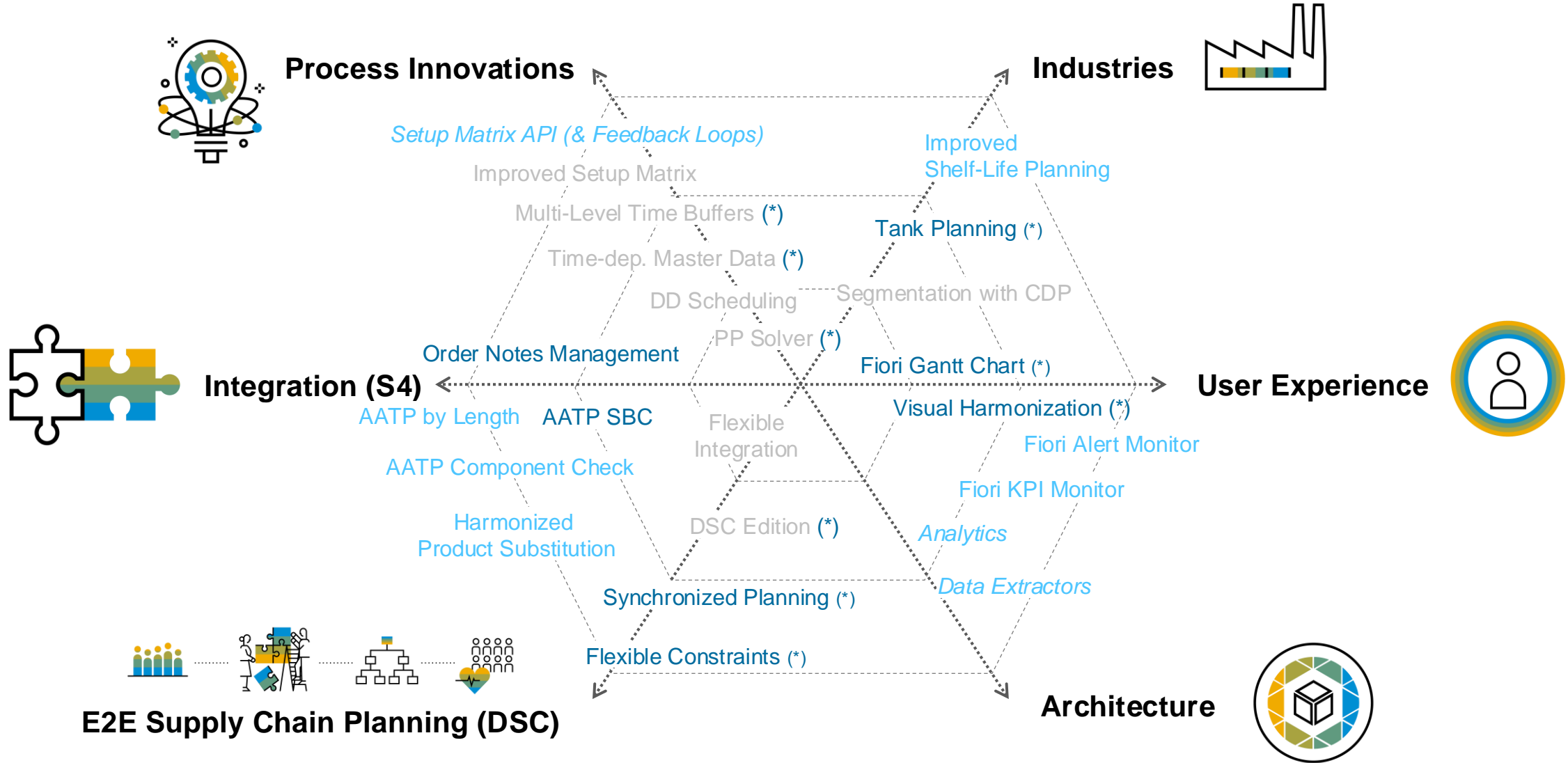
- Engineering Change Management with **configurable BoM / Routing effectivities**
- MTO/MTS/CTO planning

# Innovations



# SAP S/4HANA PP/DS Roadmap ([Link](#))

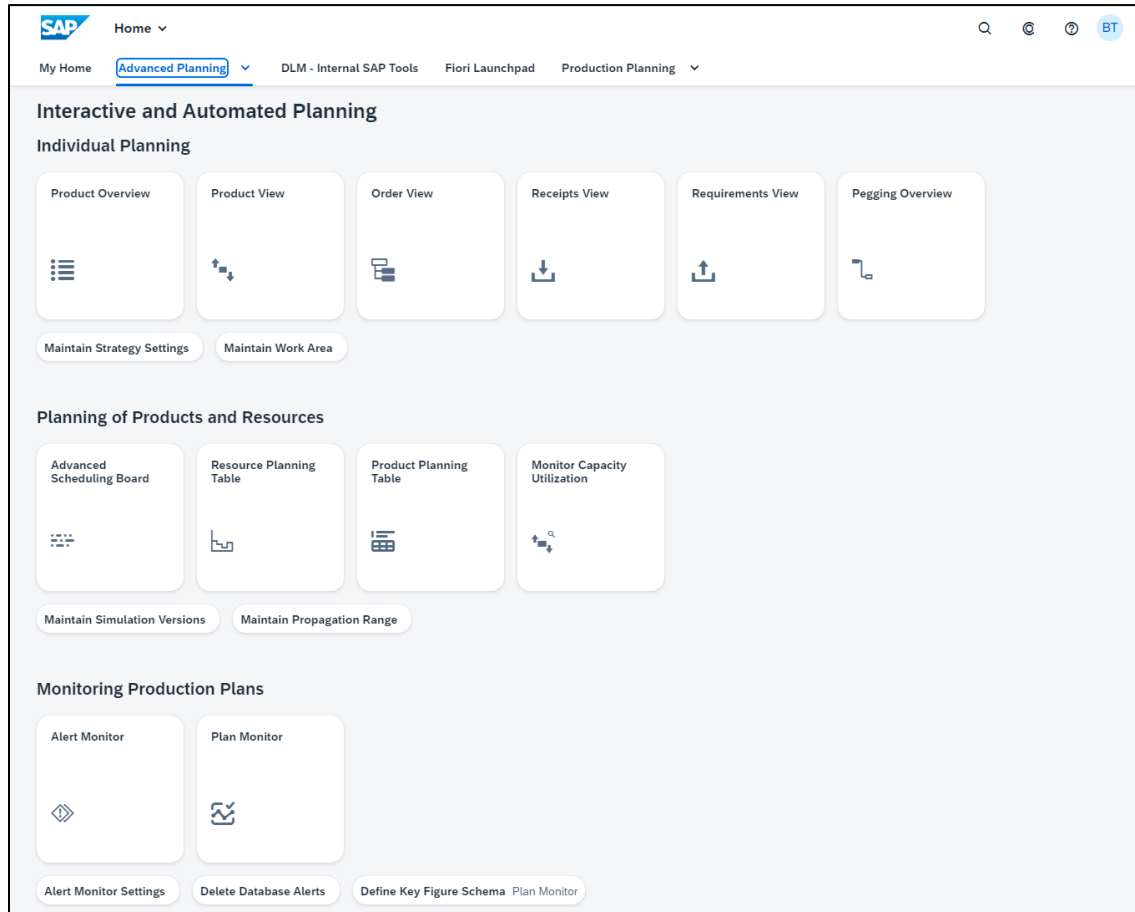
Growing in 6 Dimensions, incl. examples of innovation topics



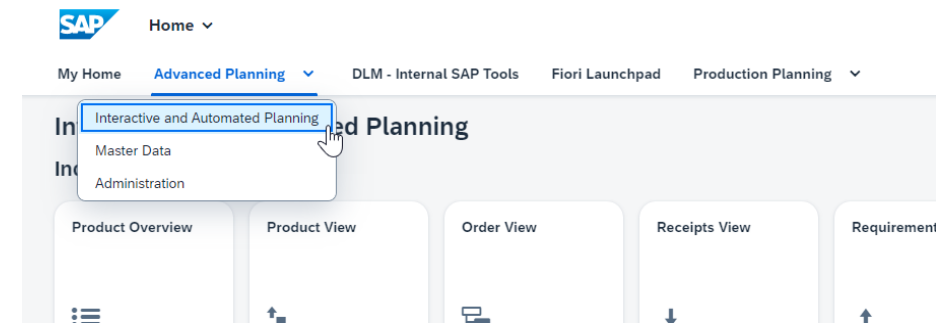
# Fiori, User Experience

## Example: Fiori Launch Pad featuring PP/DS spaces

### First impression



- Motivation: Provide E2E process coverage in FIORI
- Fully integrated with FIORI-native apps, incl. forward/backward navigation
- Distinction of main and supportive apps (big vs. small tiles)
- More content / spaces, structured as follows ...



# Product View and integrated Stock Projection as Fiori Hybrid Example

## Product View

Product View: MSE\_STOCKLINE, Planning Version 000

\* Product: MSE\_STOCKLINE    Stock Line Test    DaysSupply [D]: 14,95  
 Location: 0001    Werk 0001    ReceiptDS [D]: 33,95

Acct Assignment: -----

Elements    Periods    Stock    Pegging Overview    Product Master    Forecast

MSE\_STOCKLINE in 0001 (Make-to-Stock Production)

Continuous Date	Contin. Time	Avail./Reqmts Date	Av./Rqmts Time	Category S.Tp	Receipt/Rqmts Elemnt	Rec/ReqQty	PDmndA/RDt	PDmndA/RTm	ScrA/RDte
01.01.1970	01:00:20	10.05.2023	13:09:22	Stock	/0001/CC	50		00:00:00	
10.05.2023	13:09:22	10.05.2023	13:09:22	SafetyStk		60-		00:00:00	
21.05.2023	15:28:09	21.05.2023	15:28:09	PurRqs	10024818/000010	10		00:00:00	
22.05.2023	23:59:59	22.05.2023	23:59:59	PurRqs	387521/000010	40		00:00:00	
25.05.2023	12:00:00	25.05.2023	12:00:00	FC req.		70-		00:00:00	
26.05.2023	16:46:57	26.05.2023	16:46:57	PurRqs	10024816/000010	30		00:00:00	
13.06.2023	12:00:00	13.06.2023	12:00:00	FC req.		100-		00:00:00	
15.06.2023	12:00:00	15.06.2023	12:00:00	PurRqs	10024817/000010	100		00:00:00	
16.06.2023	23:59:59	16.06.2023	23:59:59	PurRqs	387522/000010	100		00:00:00	
		30.12.2024	23:59:59		PP/DS Horizon	0		00:00:00	

## Graphical Stock Projection in FIORI

Product View Stock Graph

MSE\_STOCKLINE

Stock Line Test (Location 0001)    DaysSupply: 14,95 D  
 Planning Version: 000    ReceiptDS: 33,95 D

Standard

Initial Display Interval:  
 Today -0 / +14 Days

Aggregated Receipt and Demand Stock Graph

Available Quantity (EA)

Semantic Rules  
 ■ Receipt Quantity  
 ■ Demand Quantity  
 — End of Period  
 — < 0

May 10 2023

→ Reflect changes

# Order Notes Management

## as Fiori Hybrid Example

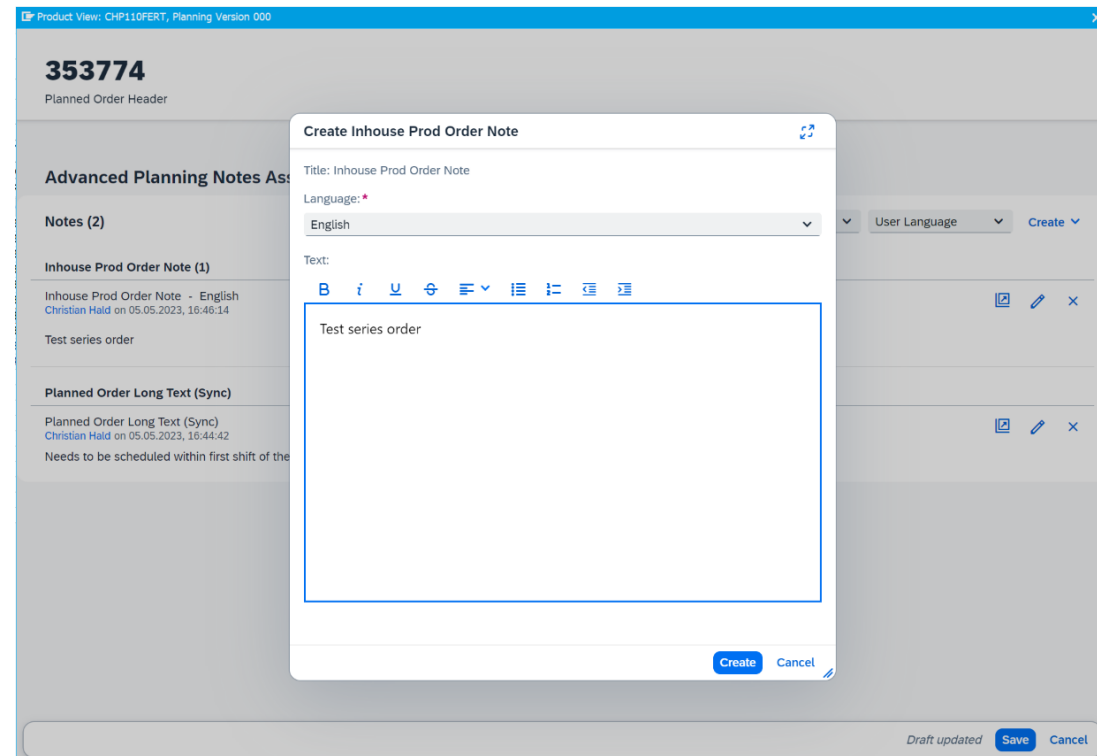
### Storage and exchange of planning relevant information

#### Scope

- Capturing of object specific free text information in PP/DS
- Structuring of notes by usage of multiple note types
- Exchange of planning relevant information with shop floor by integration with PP long texts

#### Benefit

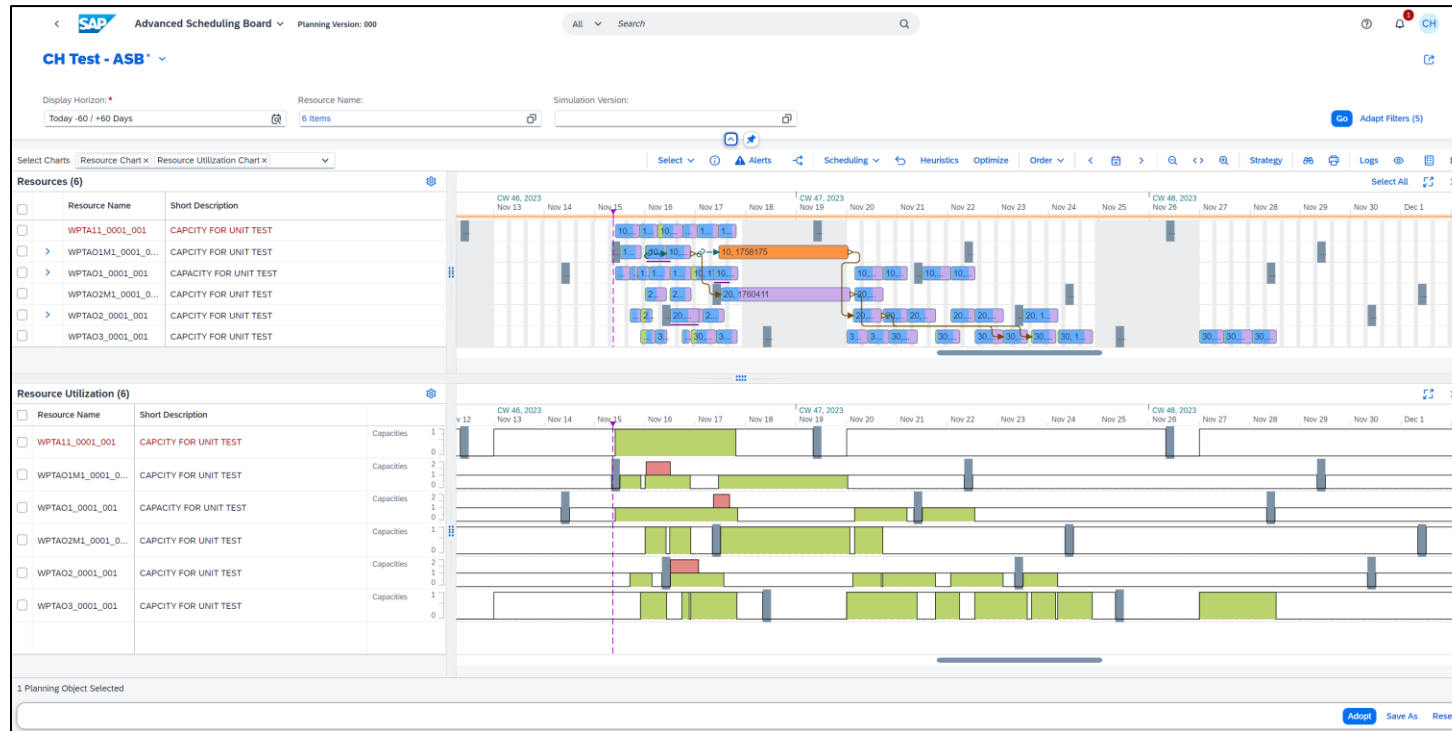
- Improve information flow within and across planning departments
- Hand-over of planning information to shop floor
- Improve process flow



Creation and administration of order notes in PP/DS

# Fiori, User Experience

## Example: Advanced Scheduling Board



Activities	
■	Setup
■	Produce (Planned Order)
■	Produce (Production/Process O...
■	Tear Down
▲	Sequence Dependent Setup
▲	Sequence Deallocated Setup
Operation Status	
■	Fixed
■	Deallocated

- Visualization of production plan and constraints on **multiple charts**
- **Interactive planning** using heuristics, drag & drop, order creation/change
- Seamless integration within PPDS using **cross app navigation**
- Exception-based planning using **PP/DS Alerting**

# Process Innovation, Fiori, User Experience

## Example: Time-Dependent Stock Levels

**Materials (18)**

Material Number	Material Description	Plant	Adv...	PP/DS Safety Stock Method	PP/DS Target Stock Method
<input checked="" type="checkbox"/> TDSL1FERT	TDSL Safety Stock Method SB	Plant 0001 (0001)	Yes	SB (Safety Stock from Location Product Master)	(Target days' supply from product master)
<input checked="" type="checkbox"/> TDSL1RAW1	Raw Material	Plant 0001 (0001)	Yes	(No Safety Stock)	(Target days' supply from product master)
<input checked="" type="checkbox"/> TDSL2FERT	TDSL Safety Stock Method SZ	Plant 0001 (0001)	Yes	SZ (Safety Days' Supply from Location Product Master)	(Target days' supply from product master)
<input checked="" type="checkbox"/> TDSL2RAW1	Raw Material	Plant 0001 (0001)	Yes	(No Safety Stock)	(Target days' supply from product master)
<input checked="" type="checkbox"/> TDSL3FERT	TDSL Safety Stock Method SM	Plant 0001 (0001)	Yes	SM (Max. of Safety Stock and Safety Days' Sup. from Loc. Prod. Master)	(Target days' supply from product master)
<input checked="" type="checkbox"/> TDSL3RAW1	Raw Material	Plant 0001 (0001)	Yes	(No Safety Stock)	(Target days' supply from product master)
<input checked="" type="checkbox"/> TDSL4FERT	TDSL Safety Stock Method MB	Plant 0001 (0001)	Yes	MB (Safety Stock (Time-Dependent Maintenance))	(Target days' supply from product master)
<input type="checkbox"/> TDSL4RAW1	Raw Material	Plant 0001 (0001)	Yes	(No Safety Stock)	(Target days' supply from product master)
<input type="checkbox"/> TDSL5FERT	TDSL Safety Stock Method MZ	Plant 0001 (0001)	Yes	MZ (Safety Days' Supply (Time-Dependent Maintenance))	(Target days' supply from product master)

**Validity Intervals (3)**

Start Date	End Date	Safety Stock	Reorder Point
<input type="radio"/> 19.10.2021	12.04.2022	100,000 KG	0,000 KG
<input type="radio"/> 13.04.2022	10.11.2023	120,000 KG	0,000 KG
<input type="radio"/> 11.11.2023	31.12.9999	120,000 KG	99,000 KG

### Scope

- Enable **safety stock planning** and **target stock planning (via safety stock and target stock methods)**
- **Usability** improvements in Product View and Product Planning Table
- Support **integration** scenarios with IBP for Inventory (via S/4HANA PP)

### Benefits

- Support use cases like **seasonality** or trends



# Process Innovation

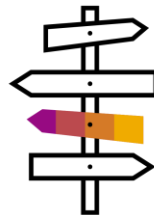
## Example: **Production Planning Optimization (PPO)**

The Production Planning Optimization ...

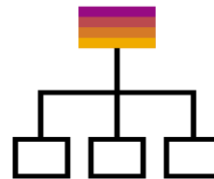
- supports **multi-level** and **time-bucket-based** supply planning
- **considers constraints** such as production capacity, lead time, material flow and maximum delay allowed in fulfilling a demand
- **weighs** different **costs and penalties** (e.g. for production, stock transfer, external procurement, storage) against each other
- to arrive at an **optimized supply plan** (in the form of planned orders and purchase requisitions) to ensure the availability of materials for a defined part of your manufacturing or supply chain network



What to produce



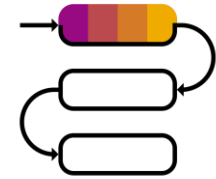
From where to source



What level to stock  
(by Product, Location)



Pre-build to Store or  
Just-in-Time production



In which sequence  
to produce

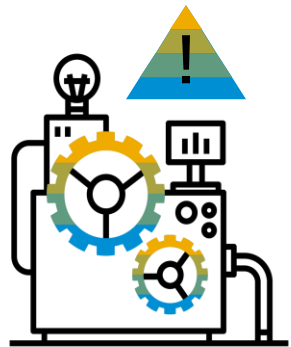
# Process Innovation

Example: **Multi-Level Time Buffers (MLTB)** to support informed decisions on order prioritization

## Biz Challenge



Late Delivery of Raw Material



Machine Breakdown

## Action

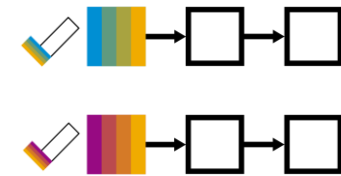


**Reschedule** Downstream Plan

Use **transparency** on...

- Upstream Buffer to predecessor
- Downstream Buffer to successor
- Downstream Buffer to primary demand

## Result



**Informed decision** on order prioritization, minimizing ...

- customer delay and
- impact on up-/downstream schedules

# Process Innovation

Example: **Multi-Level Time Buffers (MLTB)** to support informed decisions on order prioritization

The screenshot shows the SAP Product View for COS22SEMI21, Planning Version 000. The interface includes a navigation bar with buttons like 'Previous Product', 'Refresh', and 'Display Logs...'. Below the navigation, there are input fields for Product (COS22SEMI21), Location (0001), and Plant (0001). The 'DaysSupply [D]' and 'ReceiptDS [D]' are both set to 66, 26. The main content area is titled 'COS22SEMI21 in 0001 (Make-to-Stock Production)' and contains a table with various columns. The table is highlighted with a red border, and several cells are highlighted in red, indicating MLTB values.

PrdA/RDte	PrdA/R...	PrdTmBuf	Avail/ReqD	Avail./R...	Category	Rec/RqtEL	Receipt/...	Avail. ...	ScrA/RDte	ScrA/RT...	SucTmeBuf	PrimDmn...	PDmnd...	PDmndTmBuf
20.09.2023	19:30:00	1/11:30:00-	19.09.2023	08:00:00	DepDmd	1906281/0001	90-	90-	14.11.2023	13:20:00	56/06:20:00	14.11.2023	21:00:00	56/14:00:00
30.10.2023	09:33:47	35/21:03:47-	24.09.2023	13:30:00	PIOrd.	1906280	90	0	23.09.2023	02:00:00	1/11:30:00-	18.11.2023	15:00:00	55/02:30:00
23.11.2023	09:04:37	0/00:00:00	23.11.2023	09:04:37	OrdRes...	10005160/0001	30-	30-	23.11.2023	09:04:37	0/00:00:00	23.11.2023	09:04:37	0/00:00:00
24.06.2022	06:00:00	580/19:37:00	26.01.2024	00:37:00	PrdOrd...	10005138	30	0	24.11.2023	12:04:37	62/12:32:23-	24.11.2023	12:04:37	62/12:32:23-
24.06.2022	06:00:00	642/04:00:00	27.03.2024	09:00:00	PrdOrd...	10005159	30	30	28.03.2024	15:00:00	1/06:00:00	29.03.2024	21:00:00	2/12:00:00
26.03.2024	03:00:00	1/06:00:00	27.03.2024	09:00:00	OrdRes	10005161/0001	30-	0	28.03.2024	15:00:00	1/06:00:00	28.03.2024	15:00:00	1/06:00:00
	00:00:00	0/00:00:00	15.07.2025	23:59:59	PP/DS Horizon		0	0	00:00:00	0/00:00:00	0/00:00:00	00:00:00	00:00:00	0/00:00:00

- Multi-Level Time Buffers displayed in Product View as **additional columns**
- The MLTB key figures are calculated in **real-time** for all orders within the MLTB horizon.
- Pre-requisite is assignment of the MLTB profile in the user settings

# Process Innovation

## Example: Set-up Matrix Profile

Number of set-up transitions grows exponentially with problem size  
Example for a bottling process

▪ Bottle type: 3 options

▪ Lid: 4 options



▪ Drink type: 18 options

▪ Bottle Size: 5 options

Even **small use cases** lead to **huge numbers** of potential set-up transitions:

- Number of **possible set-up groups**:  $3 * 4 * 18 * 5 = 1080$  → **actually needed: 34**
- Number of **possible transitions**:  $1080 * 1080 = 1.166.400$  → **actually needed: 1156**

# Synchronized Planning



# Synchronized Planning for Production

Tight integration of IBP Response & Supply and S/4HANA Manufacturing Production & Scheduling

- Create **transparent plans** and **provide end-to-end visibility** across systems
- **Synchronize your business processes, plans and data** - from planning to execution

## SAP IBP

Utilize **global network** capacity to fulfill prioritized demands **in the most profitable way**



## SAP S/4HANA PP/DS

**Optimize the production plan** as part of the global plan and create **feasible production schedules** - ready for execution

Process is enabled by:

- **Key Figure Integration** for tactical supply planning by sharing **constraints** between SAP IBP and PP/DS in SAP S/4 HANA
- **Order Integration** for operational supply planning in **real-time** between SAP IBP and PP/DS in SAP S/4 HANA

# Synchronized Planning for Production

## Two Standard Patterns for IBP-PP/DS Integration

NEW

### Pattern #1: Use ORDER-BY-ORDER integration ...

#1

... if **IBP** is used also for **Operational Planning**

- Real-time synchronization of supply plans between SAP IBP and S/4HANA PP/DS on order level
- Tight integration for E2E processes across SAP IBP, SAP ERP, and S/4HANA PP/DS for active version
- Flexible definition of process ownership between operational supply planning and detailed planning and scheduling



### Pattern #2: Use KEY-FIGURE integration ...

#2

... if **IBP** is used mainly for **Tactical Supply Planning**

- Synchronization of supply plans by sharing IBP key figures as constraints for S/4HANA PP/DS
- Loosely coupled direct integration between IBP and S/4HANA PP/DS
- Constraints considered in selected algorithm(s) in S/4HANA PP/DS



... with one common UI across SAP IBP and SAP S/4HANA PP/DS (incl. DSC-Edition)



# Synchronized Planning for Production

## Supply Planning decisions as constraints for operational Production Planning

IBP: Create tactical supply plan as key figure

Workbook S&OP Supply Plan | Variant T05

Versions / Scenarios: Time Periods: Location ID: Product ID:

Customer Demand Transportation **Production** Confirmed Production Receipts from PP/DS comparison of Baseline and Upside Comparison Resource Capacity Production Receipts vs.

Product ID	Location ID	Source ID	Key Figures	CW23 M6 2023	CW24 M6 2023	CW25 M6 2023	CW26 M7 2023	CW27 M7 2023
1	TS05_PHONE_A	FA72	(None)					
			Dependent Demand	2,500	2,500	5,000	3,440	2,500
			Stock on Hand					
			Net Demand	3,360	3,360	3,360	3,360	2,500
			Supply	2,500	2,500	5,000	3,440	2,500
			Adjusted Production Receipts					
			Production Receipts	3,360	3,360	3,360	3,360	2,500
			Confirmed Production Receipts					
			Net New Planned Production Receipts	3,360	3,360	3,360	3,360	2,500

PP/DS: Receive supply key figure as constraints

Flexible Constraints

Constraint Scope	Constraint Scope Description	Planning Versi...	Product	Locati...	Source of Supply	Start Date	Start Time(in UT...	End Date	End Time(in UTC	Target Supp.	UoM
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	04.06.2023	23:00:00	11.06.2023	22:59:59	3,360	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	11.06.2023	23:00:00	18.06.2023	22:59:59	3,360	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	18.06.2023	23:00:00	25.06.2023	22:59:59	3,360	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	25.06.2023	23:00:00	02.07.2023	22:59:59	3,360	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	02.07.2023	23:00:00	09.07.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	09.07.2023	23:00:00	16.07.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	16.07.2023	23:00:00	23.07.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	23.07.2023	23:00:00	30.07.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	30.07.2023	23:00:00	06.08.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	06.08.2023	23:00:00	13.08.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	13.08.2023	23:00:00	20.08.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	20.08.2023	23:00:00	27.08.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	27.08.2023	23:00:00	03.09.2023	22:59:59	2,500	EA
<input type="checkbox"/>	LOCPRODSOS	000	TS05_PHONE_A	FA72	TS05_PHONE_A FA720001	03.09.2023	23:00:00	10.09.2023	22:59:59	2,500	EA

IBP: Receive production plan as "confirmed" key figure

Workbook S&OP Supply Plan | Variant T05

Versions / Scenarios: Time Periods: Location ID: Product ID:

Customer Demand Transportation **Production** Confirmed Production Receipts from PP/DS comparison of Baseline and Upside Comparison Resource Capacity Production Receipts vs.

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1	TS05_PHONE_A	FA72	(None)					
			Dependent Demand	2,500	2,500	5,000	3,440	2,500
			Stock on Hand					
			Net Demand	3,360	3,360	3,360	3,360	2,500
			Projected Stock	860	1,720	80		
			Supply	2,500	2,500	5,000	3,440	2,500
			Adjusted Production Receipts					
			Production Receipts	3,360	3,360	3,360	3,360	2,500
			Confirmed Production Receipts	3,360	3,360	3,360	3,360	2,500
			Net New Planned Production Receipts					

PP/DS: Create operational production plan

Product view: Periodic	Un.	Due	W 21 (26.05)	W 22 (29.05)	W 23 (05.06)	W 24 (12.06)	W 25 (19.06)
<input checked="" type="checkbox"/> TS05_PHONE_A / Phone A / FA72 / FA72 Liverp...							
<input type="checkbox"/> _Make-to-Stock Production							
<input type="checkbox"/> _Available Quantity	EA						
<input type="checkbox"/> _Days' Supply	D	4,480	4,480	2	2	2	2
<input type="checkbox"/> _FC req. / 20 / PLANNING WITH FINAL ASSEM...	EA			3,440-			
<input type="checkbox"/> PReqRel / DC72 / Conf.	EA			10,000-			
<input type="checkbox"/> POrd. / TS05_PHONE_A FA720001 / WTS...	EA				3,360	3,360	3,360
<input type="checkbox"/> _Target Supply Constraint	EA						
<input type="checkbox"/> _Target Supply Constraint / TS05_PHONE_A ...	EA				3,360	3,360	3,360



# Outlook



# SAP S/4HANA Cloud Private Edition | 2023 FPS2 Release

## Planned Innovation Highlight – PP/DS

### Renewed PP/DS Product Overview based on Fiori UX

New product overview list in SAP Fiori user experience to review the current planning situation and identify planning issues.

#### Scope

- Support of Fiori variant and tile management incl. **live KPIs**, allowing use-case-/customer-specific tiles
- List and review of product-based planning situation
- Identify issues using **aggregated alert overview**
- Insight-to-action**: Drill down into the details of selected products, navigating into visually harmonized screens such as the Product View screen

#### Key Benefits

- Support of PP/DS-related, **end-to-end processes** out of SAP Fiori launchpad
- Flexibility to support **customer-specific insight-to-action**

The screenshot displays the SAP Fiori 'Individual Planning' interface. At the top, there are five tiles: 'Product Overview' (highlighted with a blue box), 'Pegging Overview', 'Requirements View', and 'Receipts View'. The 'Product Overview' tile shows '11' products with a 'Max Delay > 50' alert. Below the tiles, the 'Product Overview' screen is shown with various filters and a table of products.

**Product Overview Screen Filters:**

- Planning Version: 000
- Planning Horizon: [icon]
- Product: MSE\* X
- Location: =0001 X
- Maximum Alert: [dropdown]
- Date Time Alert: [dropdown]
- Quantity Alert: [dropdown]
- Characteristic Alert: [dropdown]
- Network Alert: [dropdown]
- Maximum Shortage: [input]
- Maximum Surplus: [input]
- Maximum Delay: >50 X (highlighted with a blue box)
- Total stocks: [input]
- Total Receipts: [input]
- Total Requirements: [input]
- Total Forecast: [input]
- Days' supply: [input]

**Products (11) Table:**

Max Delay	Maximum Surplus	Maximum Shortage	Total s
235	1350	0	0
714	6900	0	0
421	0	0	0
119	1000	-100	0
87	0	0	0
137	0	0	0
329	0	0	0
550	35	0	250
134	0	0	0
486	50	0	100
146	0	0	0

# SAP S/4HANA Cloud Private Edition | 2023 FPS2 Release

## Planned Innovation Highlight – PP/DS

### Renewed PP/DS KPI Monitor

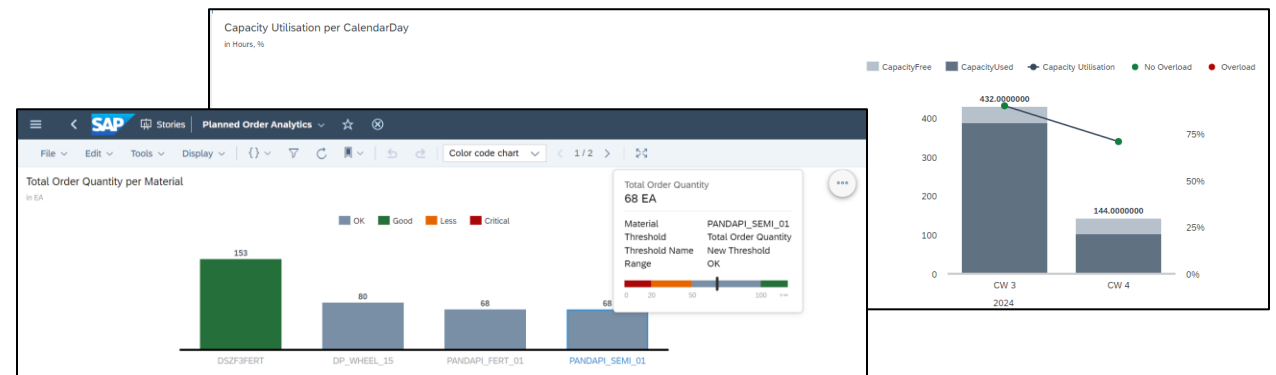
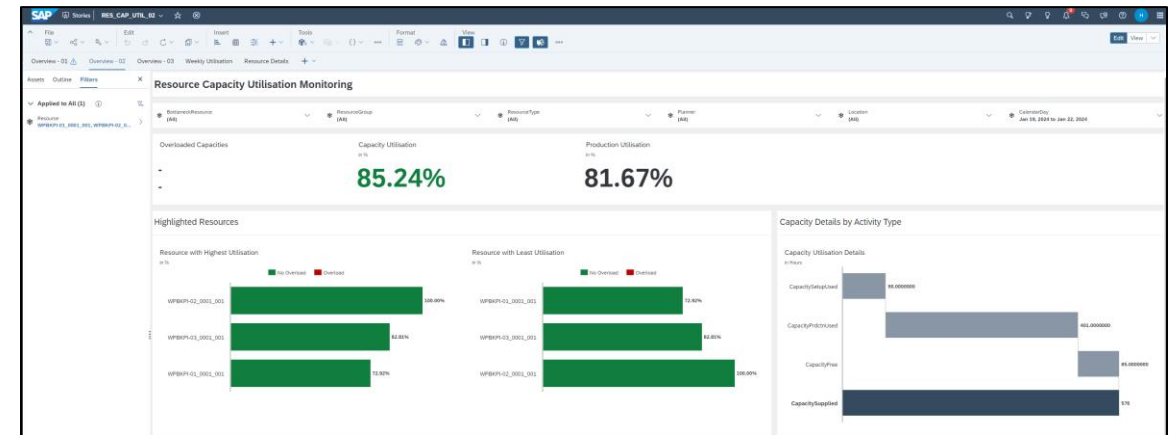
New PPDS reporting based on SAP Analytics Cloud to evaluate production plans using defined KPIs and graphical representation with modern UI technology

#### Scope

- **Calculation** and graphical **visualization** of KPIs
- Flexible combination of KPIs in one or **multiple dashboards**
- New data extraction based on Live Cache **CDS view** technology
- **Pre-defined SAC content**

#### Key Benefits

- Providing **improved capabilities** on KPI calculation and visualization
- Enabling of modern and **flexible** analytics
- **Extensible** through underlying CDS view & SAC architecture



# SAP S/4HANA Cloud Private Edition | 2023 FPS2 Release

## Planned Innovation Highlight – PP/DS

### Tank Planning: Improved consideration of Storage Tanks with continuous Production Lines

#### Scope

Improvements relate to master data set-up, which includes storage resources via Product Storage Definition only:

- **Improved interactive scheduling**
- Support of **resource networks**
- **Improved Fill level calculation**
- Support of **shrink/stretch** functionality
- Ability to **'interrupt'** leading production activity
- Support of **splitting storage activities**

#### Benefit

- **Improved utilization** of storage tanks



# SAP S/4HANA Cloud Private Edition | 2023 FPS2 Release

## Planned Innovation Highlight – PP/DS

### Support for Resource Networks in Tank Planning and Production Planning Optimization (PPO)

#### Scope

- The ability to **consider** resource networks **in** interactive splitting of **filling** and **draining** activities
- Improved consideration of resource networks for business scenarios with **continuous production** lines
- Improved support of resource networks in interactive **simplified tank switch**
- Support order internal resource networks in **production planning optimization** (PPO)

#### Key Benefits

- Improve consideration of the physical factory layout
- Improve adherence to the production schedule



# Appendix



# SAP S/4HANA PP/DS

## Planned Innovation

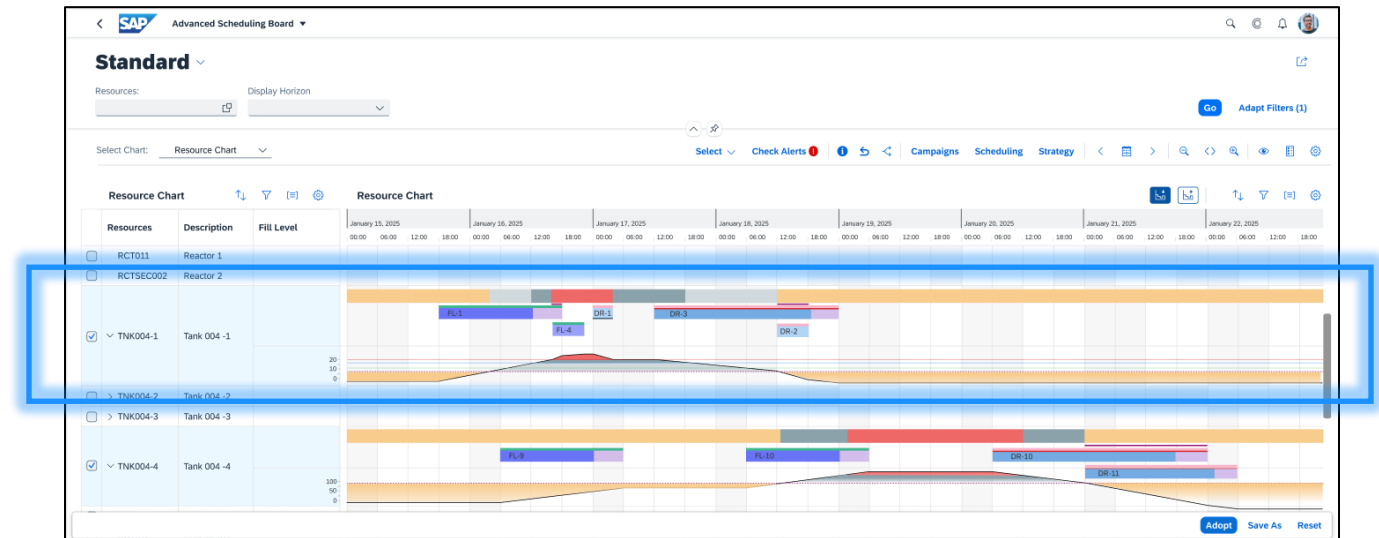
### Advanced Scheduling Board: Detailed Fill-Level Information on Storage Tanks in the Resource Chart

#### Scope

- **Combined** visualization of projected **fill level curve** of storage tank resources **and** respective **filling** and **draining** activities
- Enable **drill-down** on projected fill level situation via fill level detailed list
- Facilitate **tank split** out of Advanced Scheduling Board to allow to drain from / fill into multiple tanks in one order

#### Key Benefits

- **Understand impact** of filling and draining on fill level directly
- **Improved** support of **tank planning** processes within Advanced Scheduling Board



# SAP S/4HANA PP/DS

## Planned Innovation

### Configuration and Extensibility of Advanced Scheduling Board

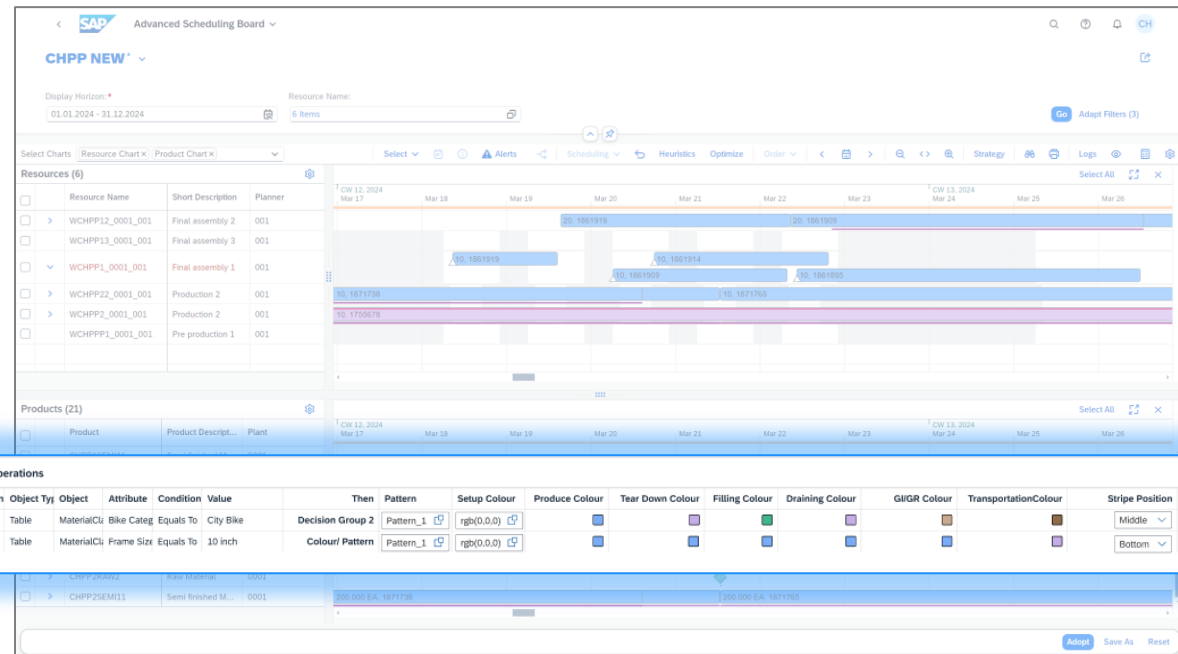
Provide options to configure and enhance Advanced Scheduling Board in a more flexible way

#### Scope

- Individual **coloring** of graphical **shapes** with chart area of Gantt Chart based on business content
- Configuration of **text** information on shapes and tool tips
- Enable usage of **customer-specific field** enhancements within side-panel and table area

#### Key Benefits

- Improved modelling** options of individual business scenarios
- More flexibility** and **transparency** in visualization of current production planning situations





# SAP S/4HANA PP/DS

## Planned Innovation



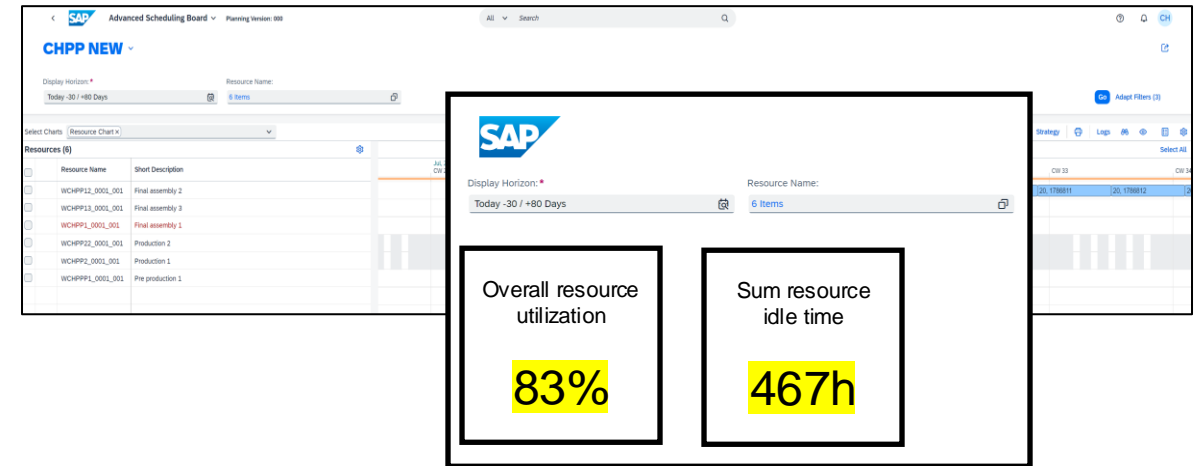
## Integration of the new PP/DS KPI Monitor into the Advanced Scheduling Board

### Scope

- **Visualize KPIs** defined by new Production Planning and Detailed Scheduling KPI Monitor based on Fiori UX **within Advanced Scheduling Board**
- **Navigate** to new Production Planning and Detailed Scheduling KPI Monitor based on Fiori UX out of Advanced Scheduling Board

### Key Benefits

- **Improved capabilities** to evaluate production plans within Advanced Scheduling Board
- **Compare alternative plans** and understand differences such as resource overloads or order delays



# SAP S/4HANA PP/DS

## Planned Innovation



## Renewed PPDS Alert Monitor based on the SAP Fiori UX

### Scope

- Ability to **evaluate PP/DS alerts** through the SAP **Fiori** launchpad
- Starting point for **navigation** into issue resolution

### Key Benefits

- Modernized **user experience**
- Support for the **exception-based planning** process, insight-to-action

The screenshot displays the SAP Fiori PP/DS Alert Monitor interface. At the top right, there is a 'Go' button and 'Adapt Filters (3)'. Below this, there are three alert indicators: a red triangle with '28', a yellow triangle with '0', and a grey triangle with '0'. A dropdown menu is open, showing 'Order in Past Alerts (26)' and 'Order Alerts - Product-Dependent (2)'. The main content area contains two tables.

Description	Order	Product Number	Spot Date Time	Delay in Days	Actual Quantity	Warehouse Stock	
Receipt due date/tim...	Planned Order 00...	CH012FERT	16.06.2023, 11:3...	19,94	1,000	0,000	⊞
Receipt due date/tim...	Planned Order 00...	CH012FERT	16.06.2023, 11:3...	19,94	1,000	0,000	⊞
Receipt due date/tim...	Planned Order 00...	CH012FERT	16.06.2023, 11:3...	19,94	1,000	0,000	⊞
Receipt due date/tim...	Planned Order 00...	CH012FERT	16.06.2023, 11:3...	19,94	1,000	0,000	⊞
Receipt due date/tim...	Planned Order 00...	CH012FERT	16.06.2023, 11:3...	19,94	1,000	0,000	⊞

Description	Order	Product Number	Valid From	Actual Quantity	Target Quantity	Variance in %	
Requirement underc...	Forecast	CHPP2FERT	09.11.2020, 00:0...	0,000	20,000	100	⊞
Requirement underc...	Planned Order 00...	CHPP1RAW1	03.11.2020, 14:2...	0,000	110,000	100	⊞

# Thank you.

Contact information:

SAP

