

It's time to **accelerate** transformation.

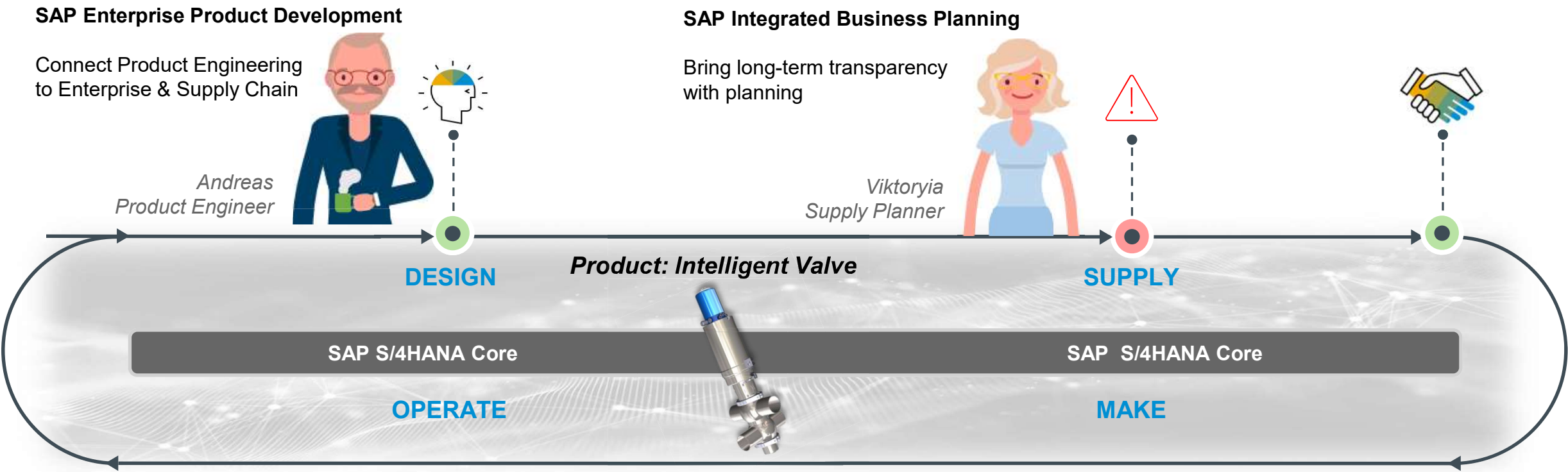
INSPIRE. BELIEVE. SUCCEED.

Komplementäre Cloud Lösung zu S/4HANA (public + private) Cloud. **SAP Digital Manufacturing Cloud (DMC)**

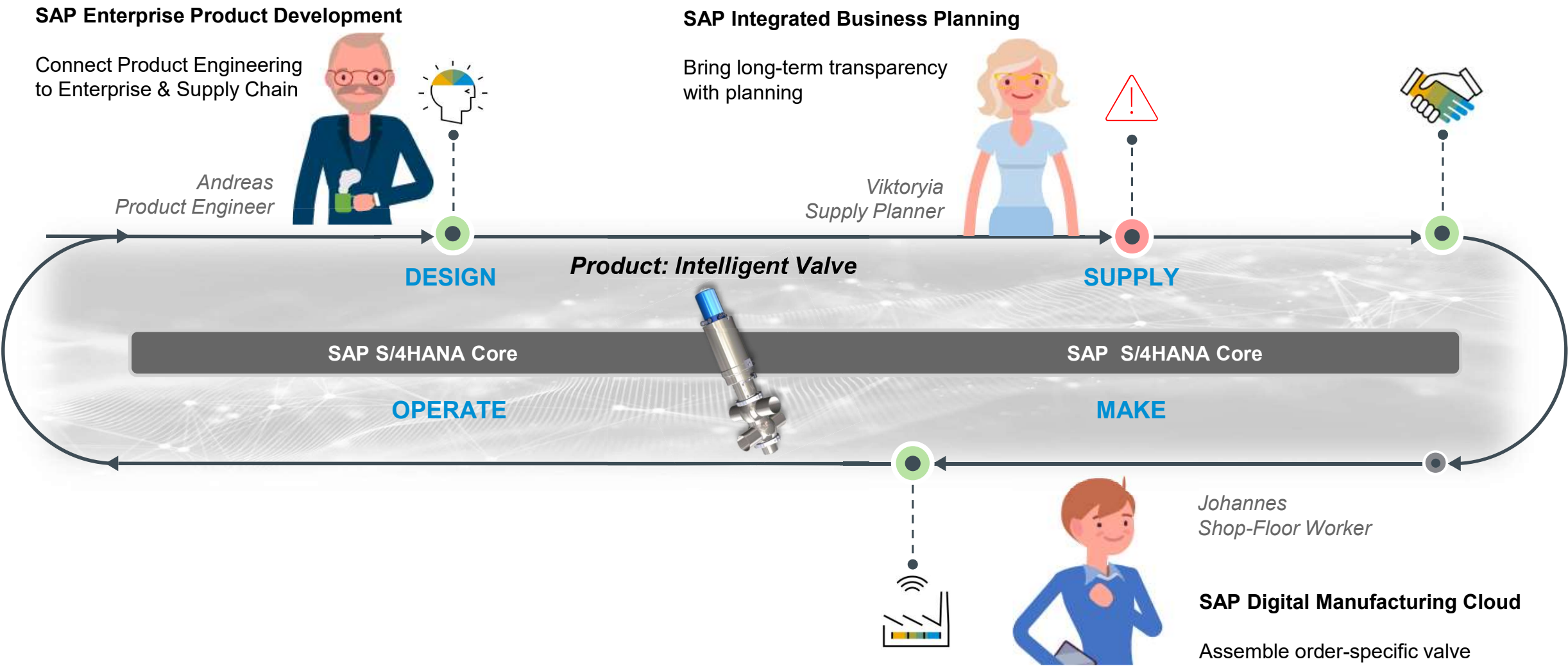
Johannes Wiest, Solution Advisor Manufacturing

PUBLIC

Integrated Design-to-Operate Process supported with SAP Solutions



Integrated Design-to-Operate Process supported with SAP Solutions



DMC is a cloud-based MES that bridges the gap between your ERP system and shop floor.

ERP

S/4 HANA Cloud

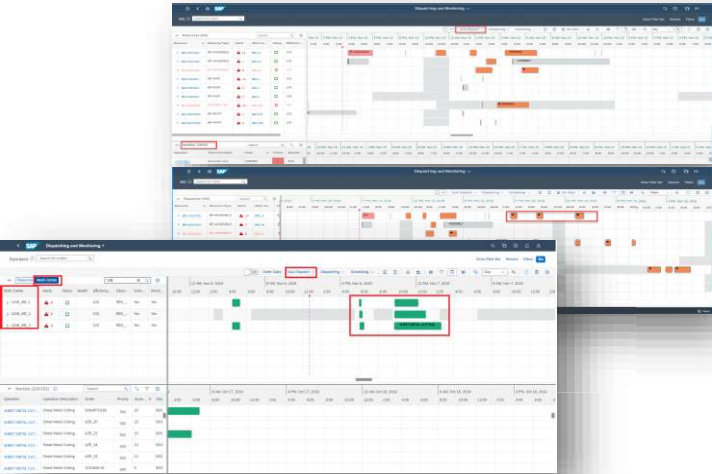
MES

Digital Manufacturing Cloud

Shop
Floor



Key capabilities of the SAP Digital Manufacturing Cloud

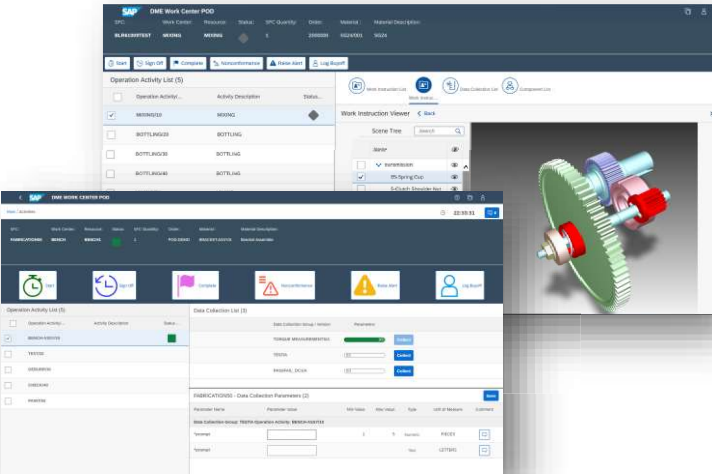


Resource Orchestration

Dispatching & Monitoring

Labor Management

“Real world” view of Shop Floor

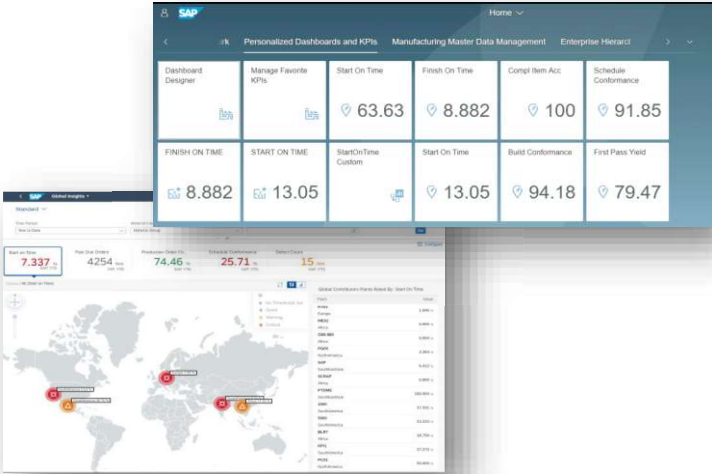


Execution

Order Execution

Data Collection

Machine Integration



Insights

Manufacturing KPIs

Realtime visibility

Analytics with embedded SAC

SAP Digital Manufacturing Cloud | Ressource Orchestration

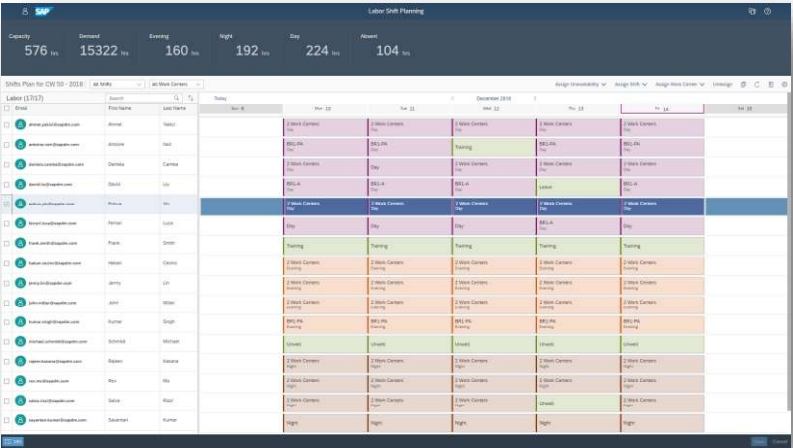
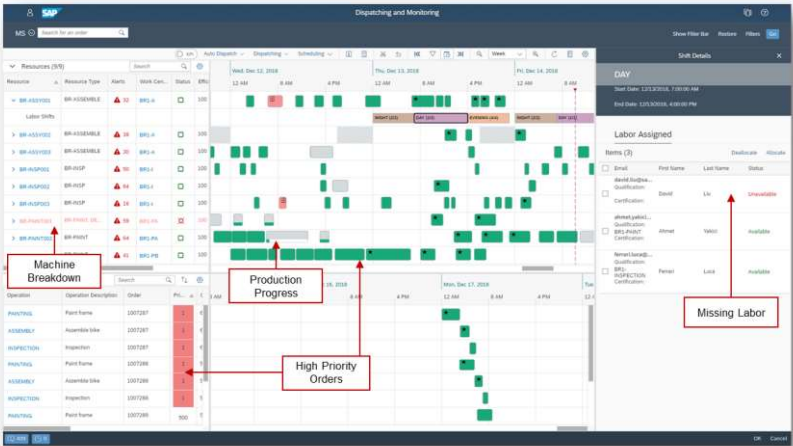
Operational planning & dispatching

Main capabilities

- Operational planning & dispatching
 - Order prioritization
 - Split or merge orders / batches
 - Due date control
- Advanced heuristics to automatically schedule backlog orders
- Labor Management & Qualifications

Benefits

- User-friendly UI to improve transparency by monitoring the entire manufacturing process
- Achieve maximal production availability by optimizing resources and production execution
- Improve quick reaction to unexpected events utilizing built-in intelligence
- Seamless integration with SAP S/4 HANA backbone
- Bridge between enterprise planning and production operations

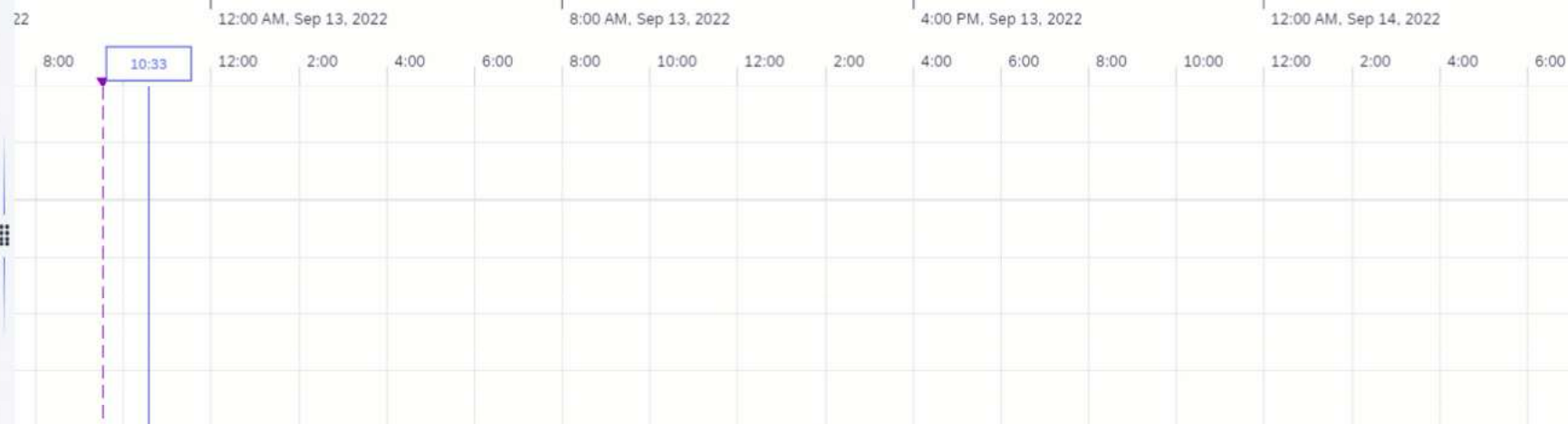


Standard_Assembly ▾ 🔍

🔍 Auto Dispatch ▾ Dispatching ▾ Scheduling ▾ Shift Plan SFC View ⓘ 📄 🗑️ ✂️ ↶ ⏪ ⏩ 🔍 Day ▾ 🔍 ↺ 📅 ⚙️

▼ Resources (6/6)

Resource	Resource Type	Material Group	Primary	Work
▸ JW_ASSY001	ASSEMBLY		☐	JW_W
▸ JW_ASSY002	ASSEMBLY		☐	JW_W
▸ JW_QUAL001	QUALITY		☐	JW_W
▸ JW_VISQUAL	QUALITY,ASS...	Control Head	☐	JW_W
▸ VA7062MW	DEFAULT		☐	VA706
▸ VA7062RW	DEFAULT		☐	VA706



▲ Worklist (31/31) ▾

Operation	Operation Descripti...	Order	Quantity
JW-ASSY	Assembly	DOUBLE_SEA...	2 EA
JW-PRE-ASSY	Pre-Assembly	DOUBLE_SEA...	2 EA
JW-QUAL	Quality Check	DOUBLE_SEA...	2 EA
JW-VISQUAL	Quality Check	DOUBLE_SEA...	2 EA
JW-ASSY	Assembly	DOUBLE_SEA...	1 EA
JW-PRE-ASSY	Pre-Assembly	DOUBLE_SEA...	1 EA



Manually drag & drop operations on resources for execution...

SAP Digital Manufacturing Cloud | Execution

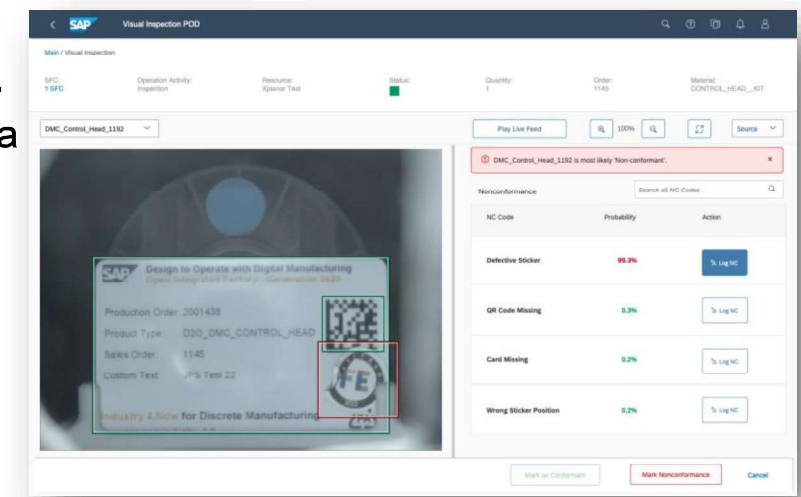
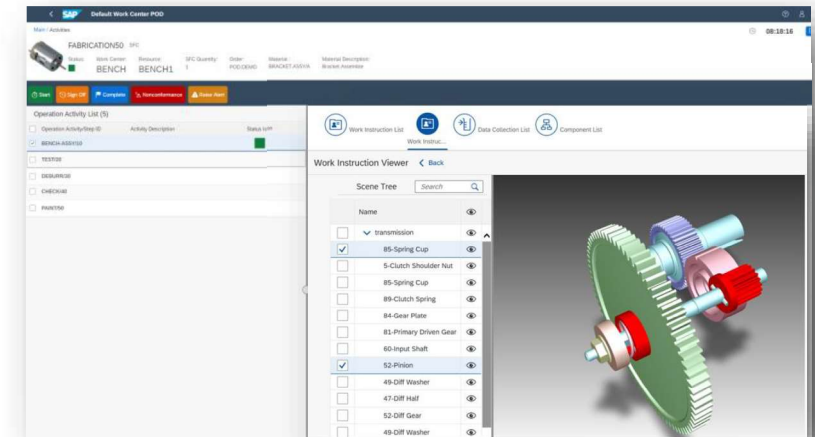
Production Operator Dashboards & Machine Integration

Main capabilities

- Production Operator Dashboards
- Work instructions
- Data collection (process parameters, quality & nonconformance,...)
- AI / ML for visual inspections
- Work in progress tracking
- Machine connectivity

Benefits

- Intuitive, flexible and role-specific production operator dashboards
- Out of the box integration with S/4 HANA and SAP ERP
- End-to-end traceability down to lot size 1
- Efficiency & quality gains through AI / ML supported visual inspections
- Automation interfaces to provide for shop-floor-driven manufacturing events and data collection



SFC:

Work Center: *

Resource: *

SFC

JW_WC001



JW_ASSY001



Go

Clear

Work List (4)

Operation Activity	Order	Material Description	SFC Qty	Status	Order Planned Start Date	Order Planned Completion Date	
JW-PRE-ASSY	JW_EN_1	Double Seated Valve	1		Jun 27, 2022, 6:30:06 PM	Jun 27, 2022, 6:31:06 PM	>
JW-PRE-ASSY	JW_EN_10	Double Seated Valve	1		Jul 18, 2022, 5:10:59 PM	Jul 29, 2022, 5:11:05 PM	>
JW-PRE-ASSY	DOUBLE_SEATED_VA...	Double Seated Valve	1		Aug 22, 2022, 9:51:57 PM	Aug 23, 2022, 9:52:01 PM	>
JW-PRE-ASSY	DOUBLE_SEATED_VA...	Double Seated Valve	1		Sep 12, 2022, 9:18:13 PM	Sep 30, 2022, 9:18:16 PM	>

SAP Digital Manufacturing Cloud | Insights

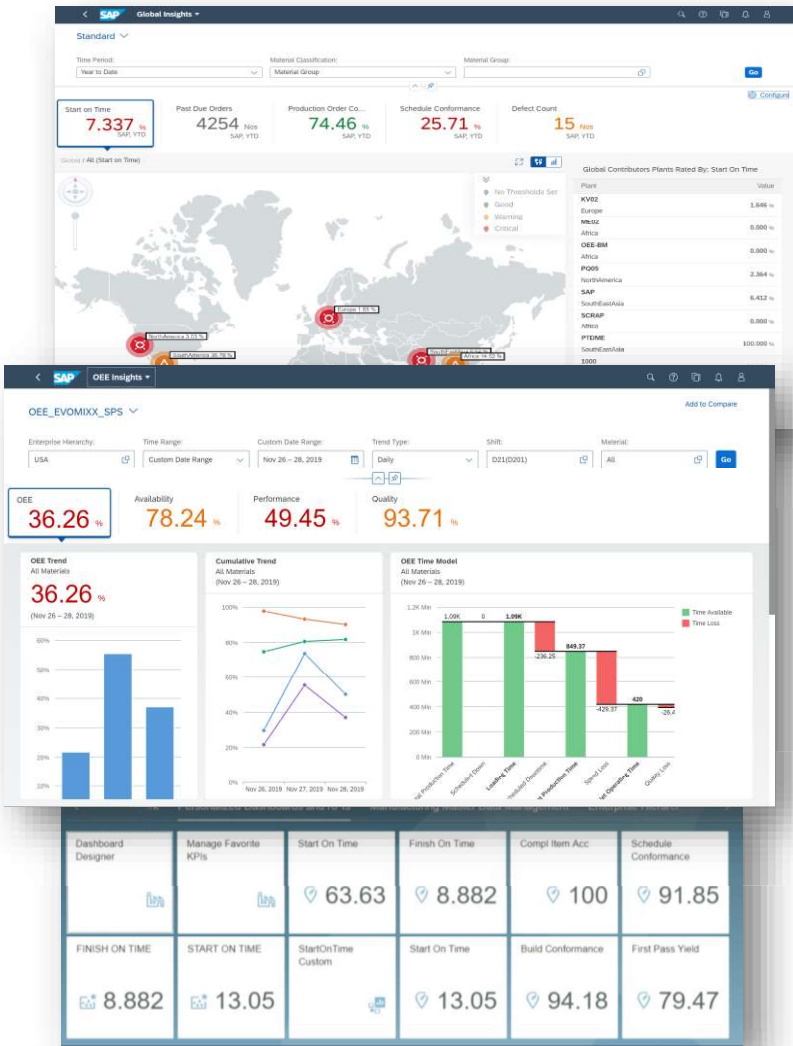
Manufacturing Insights

Main capabilities

- Visualization of standard or personalized KPIs
- Dashboard Designer
- Root-cause Analysis
- OEE insights including drill-down for detailed loss analysis
- Comparison of multiple plants or regions
- Production Process Designer

Benefits

- Use out of the box standard manufacturing KPIs fed with real-time manufacturing data
- Real-time visibility and performance monitoring from a regional level down to line or machine level
- Compare the performance between regions, plants work centres and resources
- Gain enhanced transparency of losses by slicing and dicing across various dimensions
- Easily design and control production processes



Standard ▾

Add to Compare

Enterprise Hierarchy:

BRC

Time Range:

Quarter to Date ▾

Trend Type:

Weekly ▾

Shift:

All

Material:

All

Go

OEE

76.48 %

Availability

94.00 %

Performance

81.37 %

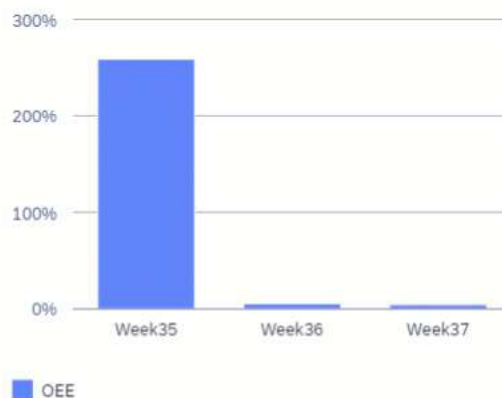
Quality

100.0 %

OEE Trend
All Materials

31.00 %

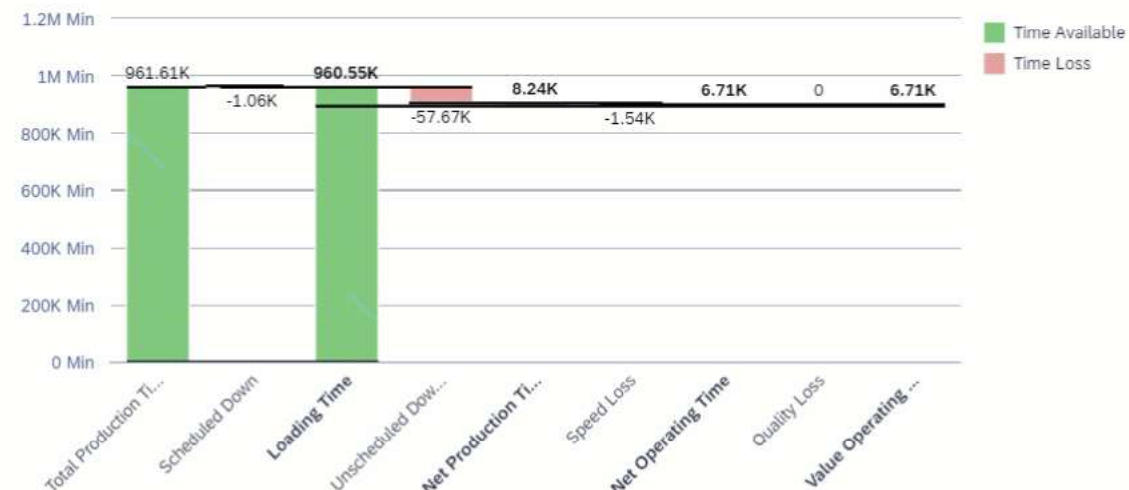
Last 3 Weeks



Cumulative Trend
All Materials
Last 3 Weeks



OEE Time Model
All Materials
Quarter to Date



Reason Code Distribution

Quarter to Date

Best and Least Performers

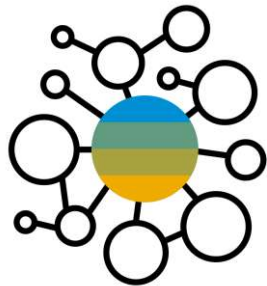
Top and bottom 3 nodes at same level for OEE

All Materials

Quarter to Date

Gain transparency through standard or custom KPI and dashboards...

How the Digital Manufacturing Cloud can bring value to your business.



Modern Platform

Full-blown MES with out of the box integration to S/4 HANA, EWM and more



Innovative & flexible

Realize Industry 4.0 scenarios and easily adapt to changes through low code / no code capabilities



One MES

Realize a “one MES” strategy across all your plants to standardize operations and drive synergies