

**EXPERIENCE
INDUSTRY 4.0 NOW**



04

**ASSEMBLY
STATIONS**

02

**CONVEYOR
SYSTEMS**

05

**FUNCTIONAL TEST
AND DIGITAL TWIN**

06

**OUTBOUND
LOGISTICS**

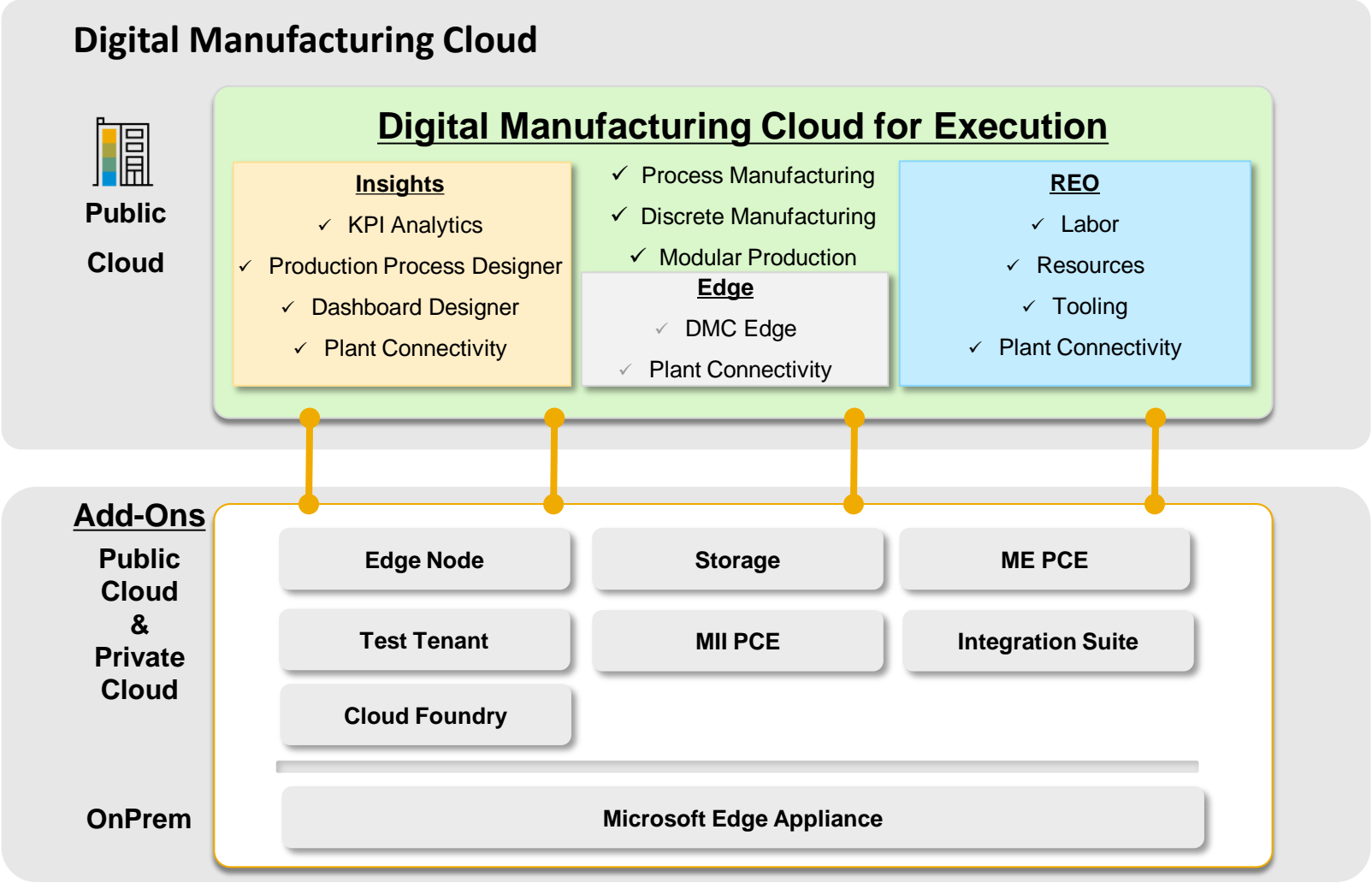
The Industry 4.0 Revolution

Powered by SAP Digital Manufacturing

May 2022

Digital Manufacturing Cloud Breakdown

Resources(Azure Only)	Productive Tenant	Test Tenant	Total Entitlement
1 – 300	1	1	2
301 – 1,000	2	1	3
1,001 – 3,000	4	1	5
3,001 – 6,000	6	2	8
6,001 to Infinite	12	2	14



Digital Manufacturing Cloud

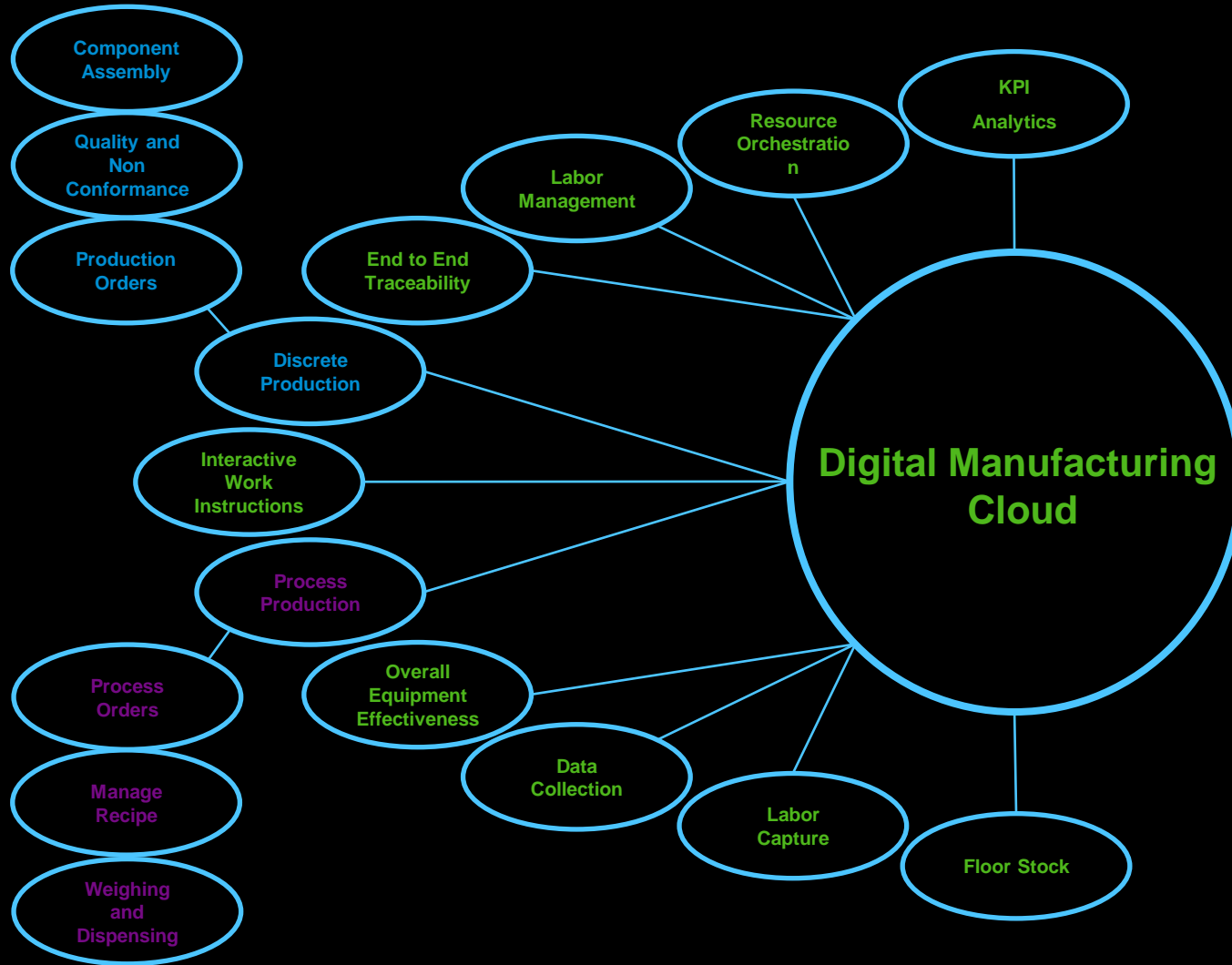
- DMCe Includes:
 - DMCi
 - REO
 - Edge Component

Standalone

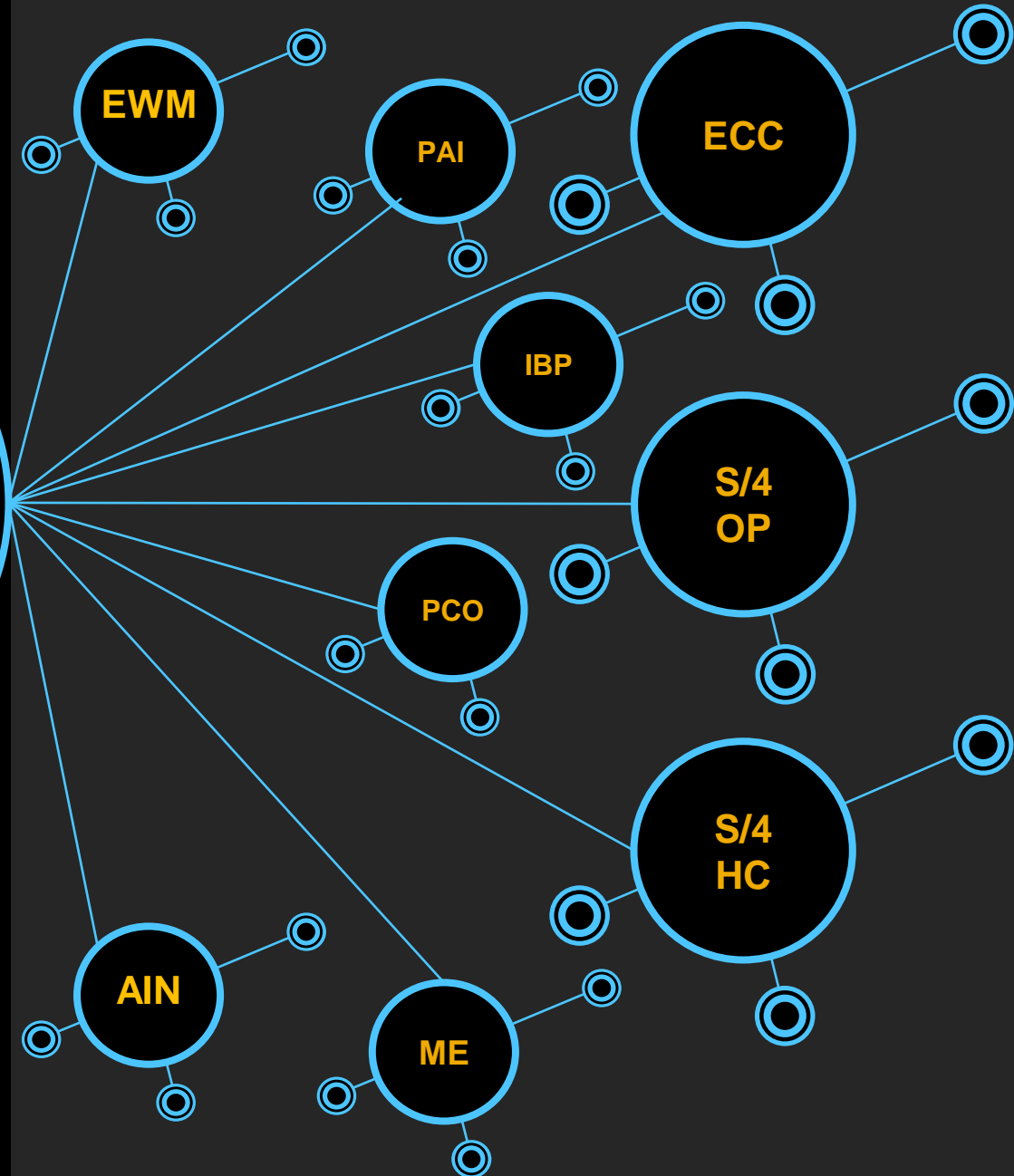
- REO can be standalone
- Test Tenant
- Integration Suite
- ME PCE
- MII PCE
- Cloud Foundry

Has a pre-requisite

- Edge Node(DMCe)(REO)
- Additional Storage(Test Tenant)



The Power of an Integrated MES



Benefits of a Public Cloud Solution like Digital Manufacturing Cloud



Lower Total Cost of Ownership(TCO)



Modern User Experience - Latest Technology



Speed of Implementation



Expanded Portfolio



Speed of Subsequent Rollouts



Always on the Latest Release



Return On Investment(ROI)



Quicker Rollout of New Functionality



Resource Driven, not by Plant



Labor Flexibility

SAP Digital Manufacturing Cloud



SAP Digital Manufacturing Cloud

Automate processes and resources to improve manufacturing efficiency, quality and productivity



Paperless production with intuitive user interfaces for production operators, automatic data collections and set machine parameters, thereby lowering cost, increasing productivity and quality.



Design, distribute and dynamically control manufacturing shop floor activities enabling a smart factory.



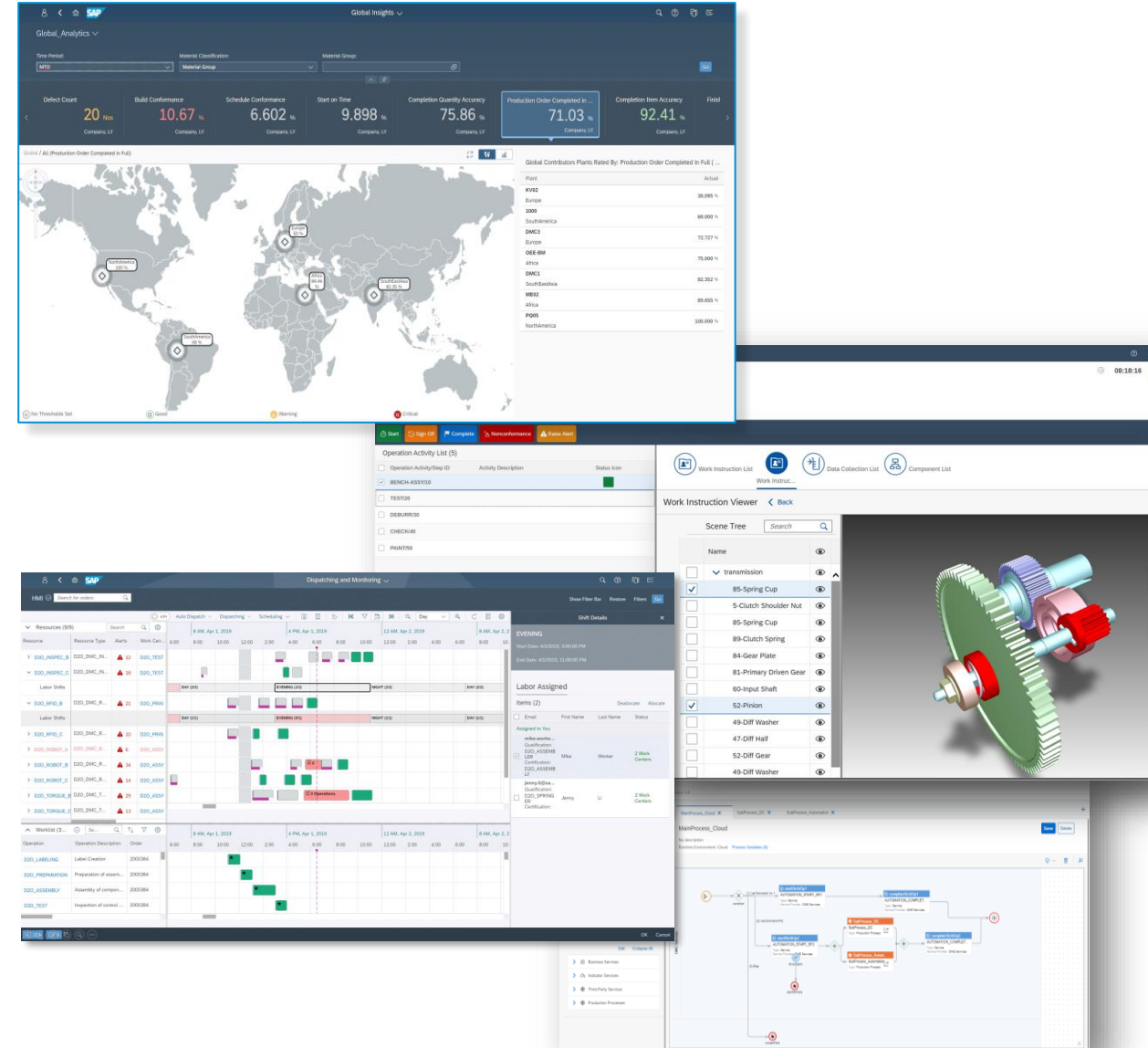
Shift and Labor planning to ensure business operations with right qualifications. Production Order scheduling and dispatching considering labor, resource and maintenance constraints to plan operations and adopt to short term changes.



Cross plant real-time analytics for manufacturing performance e.g. Perfect Order Fulfillment, Overall Equipment Effectiveness, loss analysis along with machine data to identify improvement opportunities.



Ability to collect and share product genealogy data between members of the network to trace accountability and provide transparency.



SAP Digital Manufacturing Cloud for Execution: Schedule, automate processes and resources to improve manufacturing efficiency, quality and productivity

SAP Digital Manufacturing Cloud for execution (DMCe) – Discrete Industry



Enable resource orchestration by dispatching and sequencing operations to compress the manufacturing lifecycle and provide real-time production performance tracking



Implement top-floor to shop-floor scenarios to achieve rapid return-on-investment through out-of-the-box integration to SAP solutions



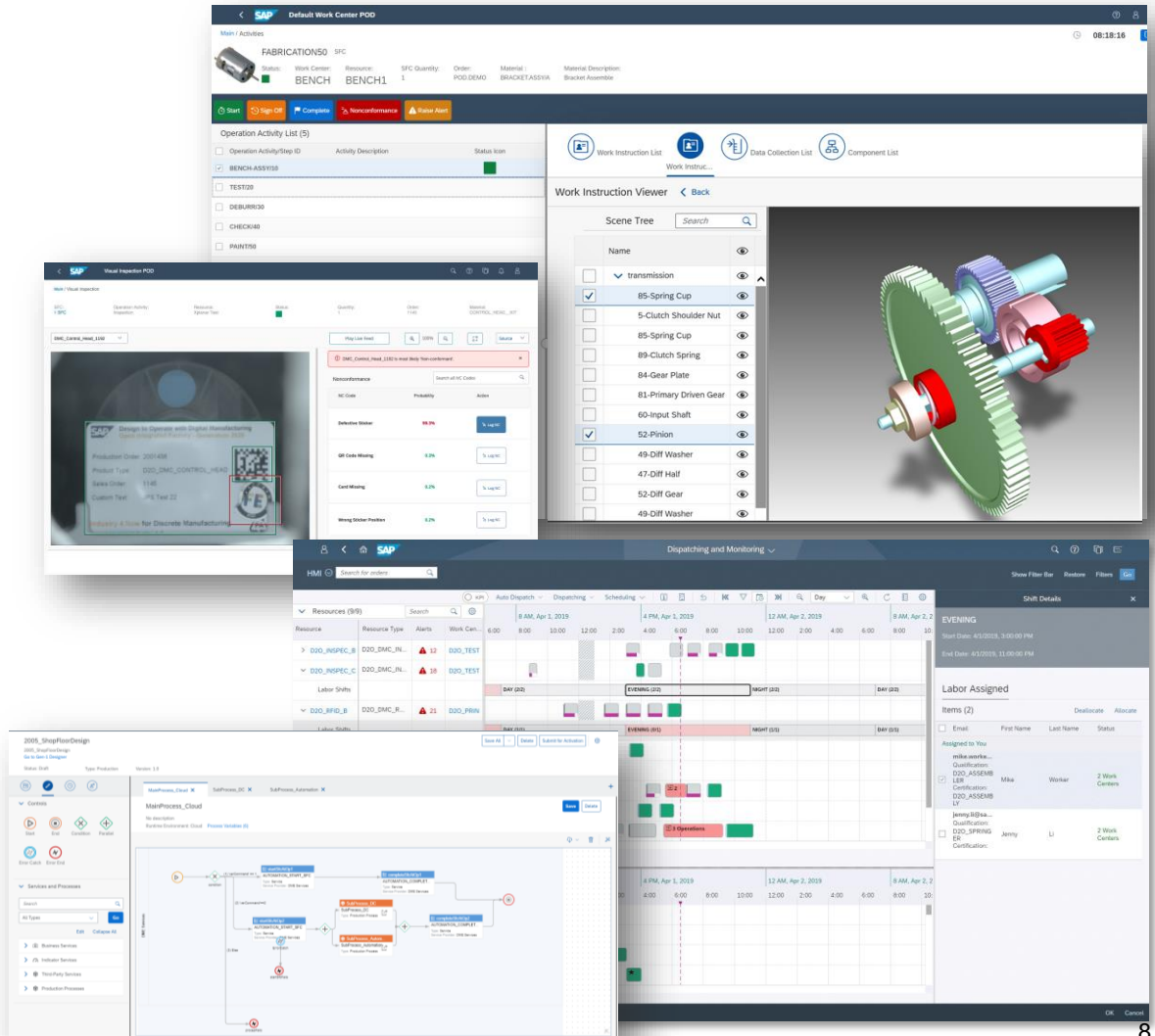
Utilize intuitive user interfaces (UI) for production operators and transform to paperless production, lowering cost and increasing productivity.



React quickly to unexpected events by monitoring the entire manufacturing process to optimize resources and speed execution utilizing built-in intelligence



Machine learning models assist operator on the shop floor to execute visual inspection tasks of manufactured products.



SAP Digital Manufacturing for insights: Intelligent insights and analysis across global plant operations

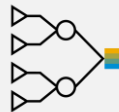
SAP Digital Manufacturing Cloud for insights (DMCi)



Adaption to any manufacturing process and global visibility and analytics for key performance indicators across a single plant or global operations



Full integration to combined business and operational data from ECC, S/4HANA and the Manufacturing Suite for improved decisions



Manage and view harmonized data acquired from disparate sources for better visibility into your plant operations



Business logic orchestration to enable customer-specific processes for planning, execution, maintenance and quality



Manufacturing Performance Management with OEE insights, production performance KPIs (standard and customized) to lower operational costs and target CAPEX and OPEX investments

ISA-95 & ISA-88

Enterprise – global

CxO
SAP Digital
Manufacturing
Insights

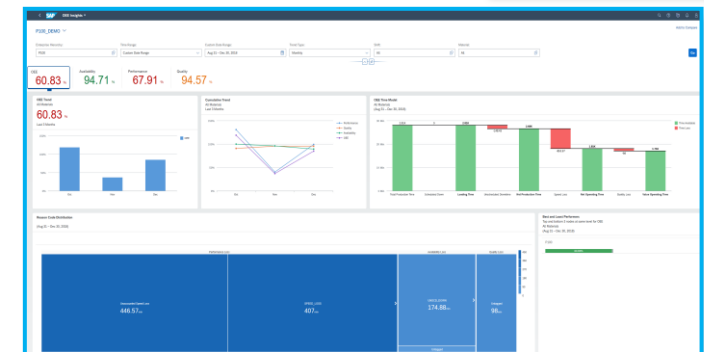
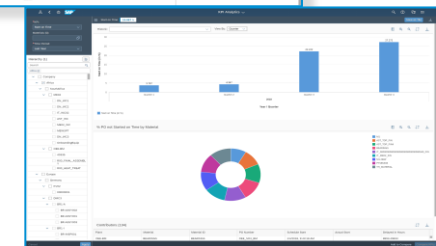
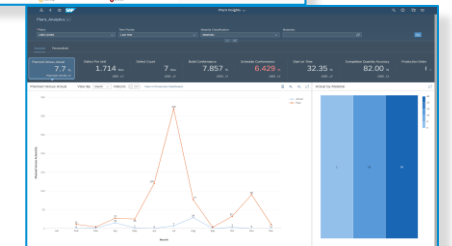
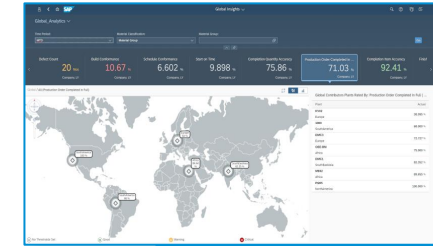
Regional – site

Plant & unit heads
SAP Digital Manufacturing Insights

Site – line

Supervisors and operators
SAP Digital Manufacturing Insights
SAP MII, SAP Manufacturing Execution, SAP OEE Management

Machines
SAP Plant Connectivity



2022 and 2023 Roadmap Items for Discrete

- ✓ [Production transaction cancellations and corrections](#)
- ✓ [Configuration data export and import](#)
- ✓ [Statistical process control \(SPC\) – in-process control charts](#)
- ✓ [Ability to display machine status and order status using ANDON boards](#)
- ✓ [Automated labor activity recording](#)
- ✓ [Visual Inspection support for mobile devices](#)
- ✓ [Ability to record factors impacting performance losses in the work center and to visualize the significant contributors](#)
- ✓ [Visual Inspection support for mobile devices](#)
- ✓ [Capability for tool certification and calibration](#)
- ✓ [Advanced machine-learning services for visual inspection on the shop floor](#)
- ✓ [Integration of service orders to support repairs and upgrades](#)
- ✓ [Integration and execution of production order suboperations](#)