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SYNTAX

How Gerresheimer is moving to the Cloud in Manufacturing

From SAP MII to SAP DM

From Component to Solution Integrated Provider

360° Patient Experience

Digital therapy support

Digital Eco-System

Containment Solutions

Bring the drug to the patient

Drug Devices & Delivery Systems

Bring the drug into the patient

Gerresheimer at a Glance

Regionally present and globally connected – we produce locally for the regional markets

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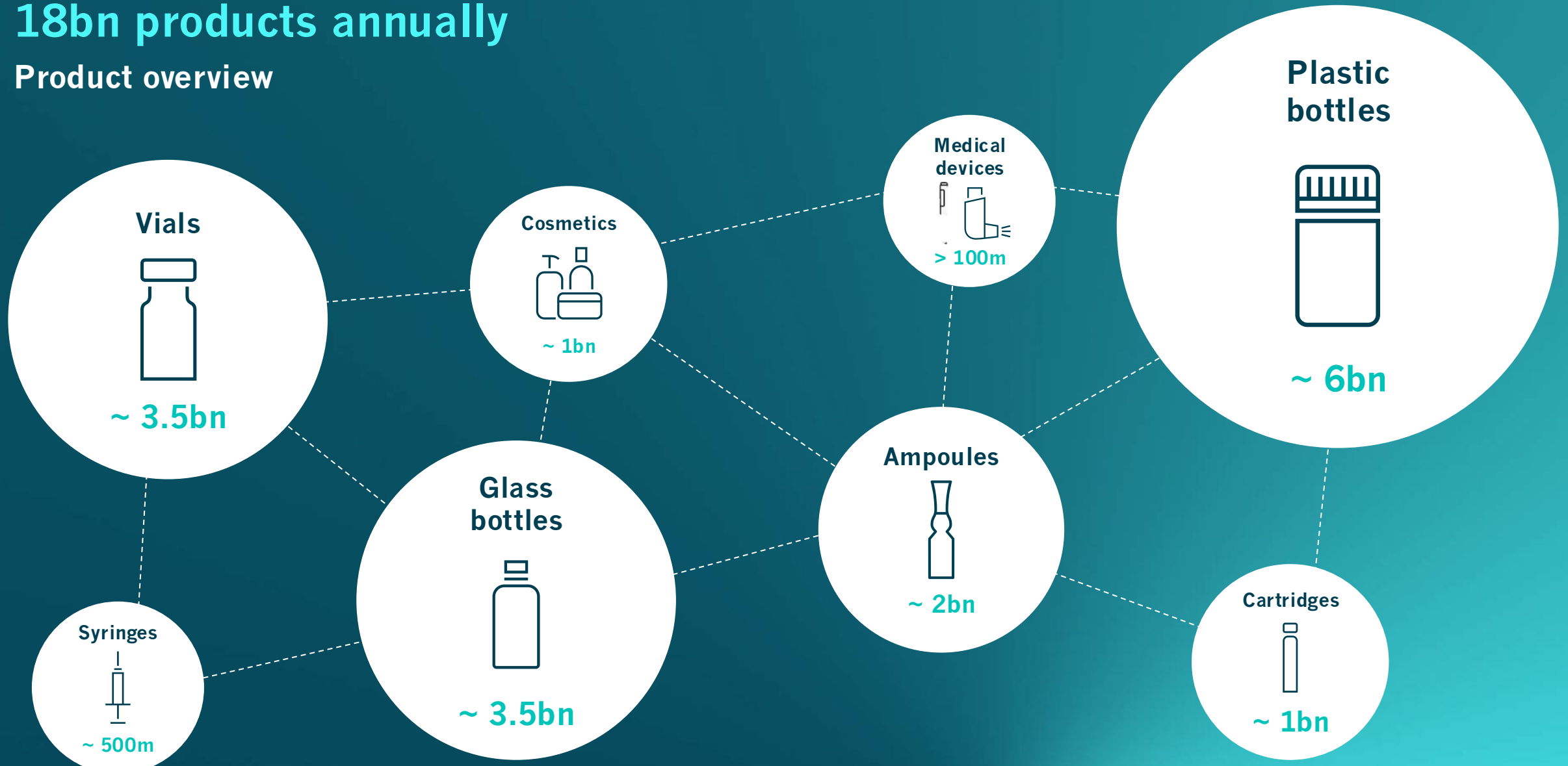
18bn products annually

Product overview



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More than 150 years of Gerresheimer

From a bottle producer to a med-tech company

1864

The company was founded by Ferdinand Heye in Düsseldorf-Gerresheim

1886

The biggest bottle producer in the world

1888

Transformation into a joint stock company

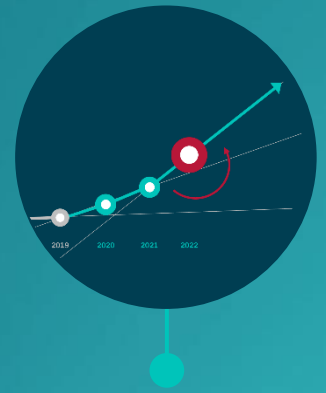
1999

A historical turning point: sale of the glassworks in D-Gerresheim

2019
start of formula g strategy

New global structure: strategic reorientation on pharma & biotech, cosmetics and food & beverage

Transformation into a growth company as innovation leader and solution provider



Today

5th year of formula g – profitable growth company

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MES-Situation beginning of 2024

EOL Announcement of Legacy Systems

Plastics & Devices

Business Unit	MES	EOL
Medical Systems	Legacy MES	2027
Packaging Plastics	Several	~

Primary Packaging Glass

Business Unit	MES	EOL
Moulded Glass	SAP MII	2027
Tubular Glass	SAP MII	2027

Target

OneMES

- Rare Chance of getting one MES for all business Unit
- Clear requirement from management board to decide
  for a joint solution
- Greenfield approach with a fast rollout plan
- Template approach

Moulded Glass	Tubular Glass	Syringes	Assembly	Injection Molding

- Fit into existing IT landscape (SAP, Microsoft)
- Usage of existing IIoT-Plattforms (machine data)

Selection Process

OneMES

~80% overlapping of glass & plastic processes

Joined approach to review MES-leaders

→ Shortlist of 5 systems, narrowed down to 2 systems

Use Case definition

→ Challenge of both vendors and different partners with use cases

Evaluation based on process matrix and use cases

Why DM and SYNTAX?

Why SAP Digital Manufacturing

- True SaaS based solution, managed and maintained by SAP
- Feature rich out of the box functionality
- Well demonstrated Low/No-Code development
- Modern, User-friendly UI
- Seamless Integration to SAP-Platform and MSFT Power Automate and Teams

Why Partner with SYNTAX

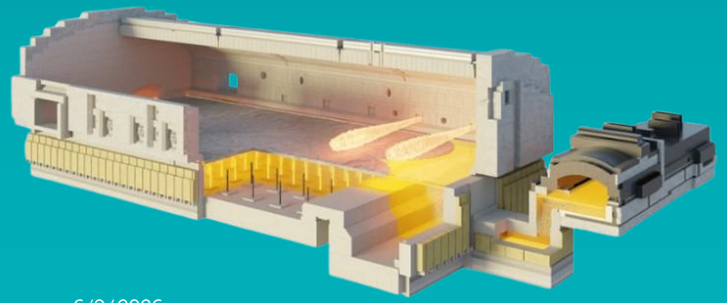
- Excellent customer engagement and understanding of Gerresheimer's requirements
- Successful partner for SAP MII implementation
- Proven record of successful SAP DM roll-outs
- Global Footprint
- Core "Fit To Standard" approach

Achieved Integrations

What keeps us awake

24/7

- Glass Tanks can not stop and will only be rebuild every 10 years
- Usually every plant has 2 glass tanks
  → no option for any downtime at all
- Centralized MES System
- **→ Near Zero Downtime on SAP DM Roadmap for 2026**

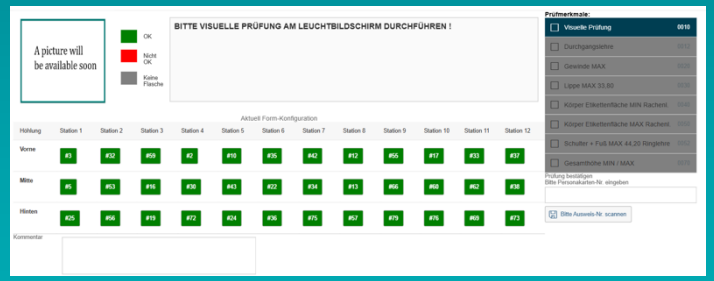


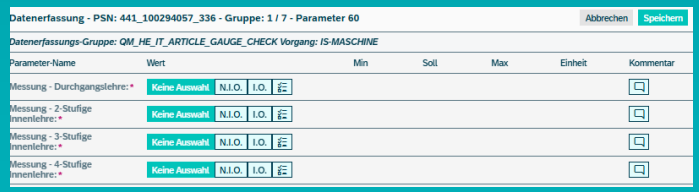
Machine Data

- High Volume of machine data from shopfloor for traceability
- Pilot Plant Essen has ~320k MES-relevant datapoints for product and process tracking
- Quality Processes and Analytics are based on this data
- Length and separation of production line leads to need for this data collection
- **→ Realized with SYNTAX**

In-Process-Control (IPC)

- Time-based or quantity-based
- Paperless IPC
  (drawing, inspection plan etc.)
- High flexibility and dynamic needed to control the process
- User Friendly & Easy UIs needed
- **→ Custom UI / Standard Data**





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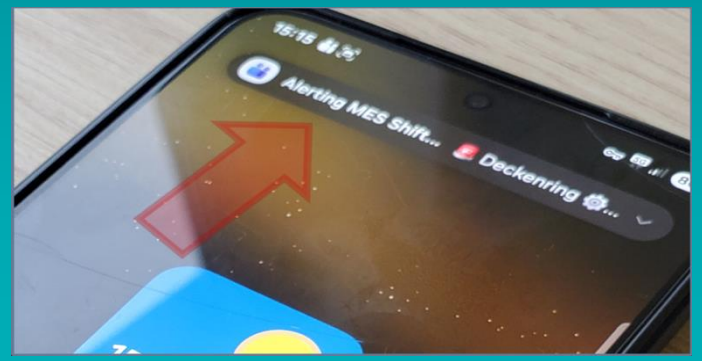
Additional Features

Looking beyond the standards

→ **Realized with SYNTAX**

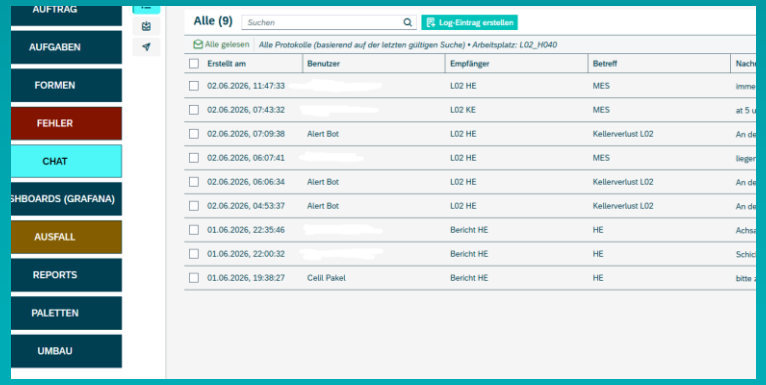
Alerts & Grafana

- Sending Alerts from SAP DM to Teams
- Sending back Alerts from Machine Data (*Grafana*) to SAP DM Shiftbook
- Iframe for Grafana Dashboards



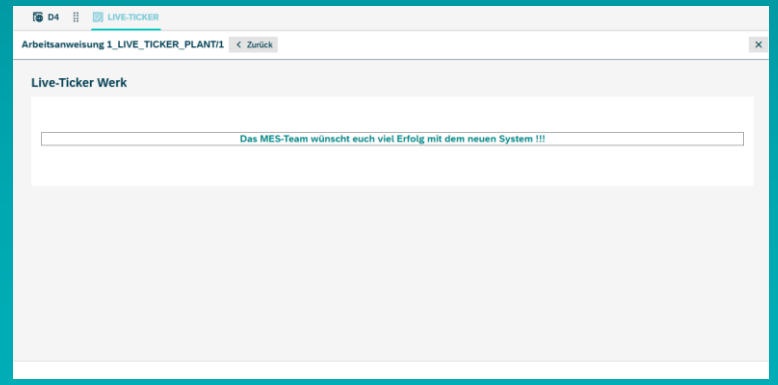
Shiftbook

- Communication Platform between Terminals (e.g. HE and CE)
- Exchange of important Informations
- Escalation Channels



Work instructions DMS

- D4 is our Document Managment System (Displays latest version)
- MES shows latest Document for Work instructions
- „RSS-Feed“: Work instruction as News Channel for a Line or Plant
- RBAC and Versioning



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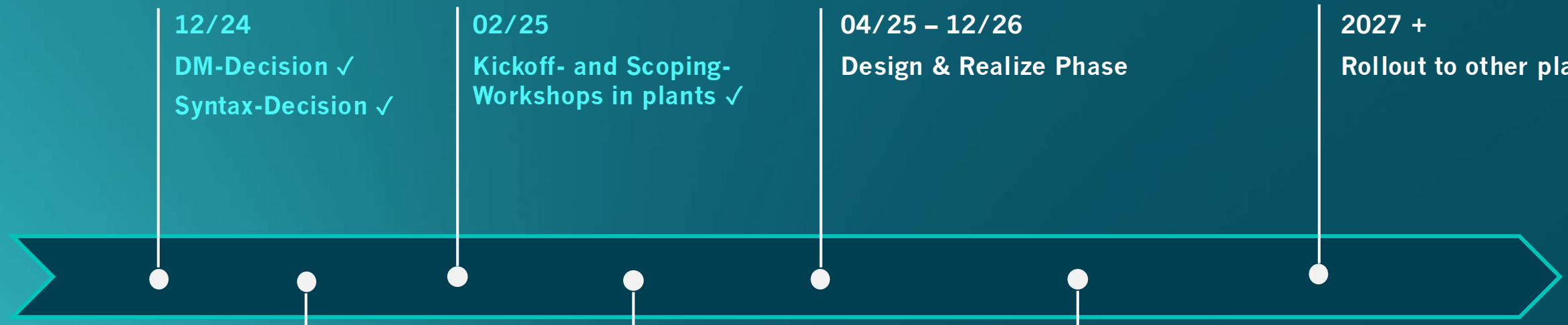
Project Status



12/24
DM-Decision ✓
Syntax-Decision ✓

02/25
Kickoff- and Scoping-Workshops in plants ✓

04/25 – 12/26
Design & Realize Phase

2027 +
Rollout to other plants

01/25
✓ Pilot Plants Selected:

MG	Essen	DE
MG	Lohr	DE
SYS	Queretaro	MX
MDS	Hosorvsky Tyn	CZ

03/25
Base System Setup ✓
ERP-Connection ✓
OPC-Connection ✓

12/25 – 12/26
3 Pilot Plants GoLive
Essen Live since 02/26

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Lessons Learned

Back to Standard
(especially data)

Self-Service for Gerresheimer

Integration
(ERP, Teams, Grafana,...)

One Operator Interface

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innovating for a better life

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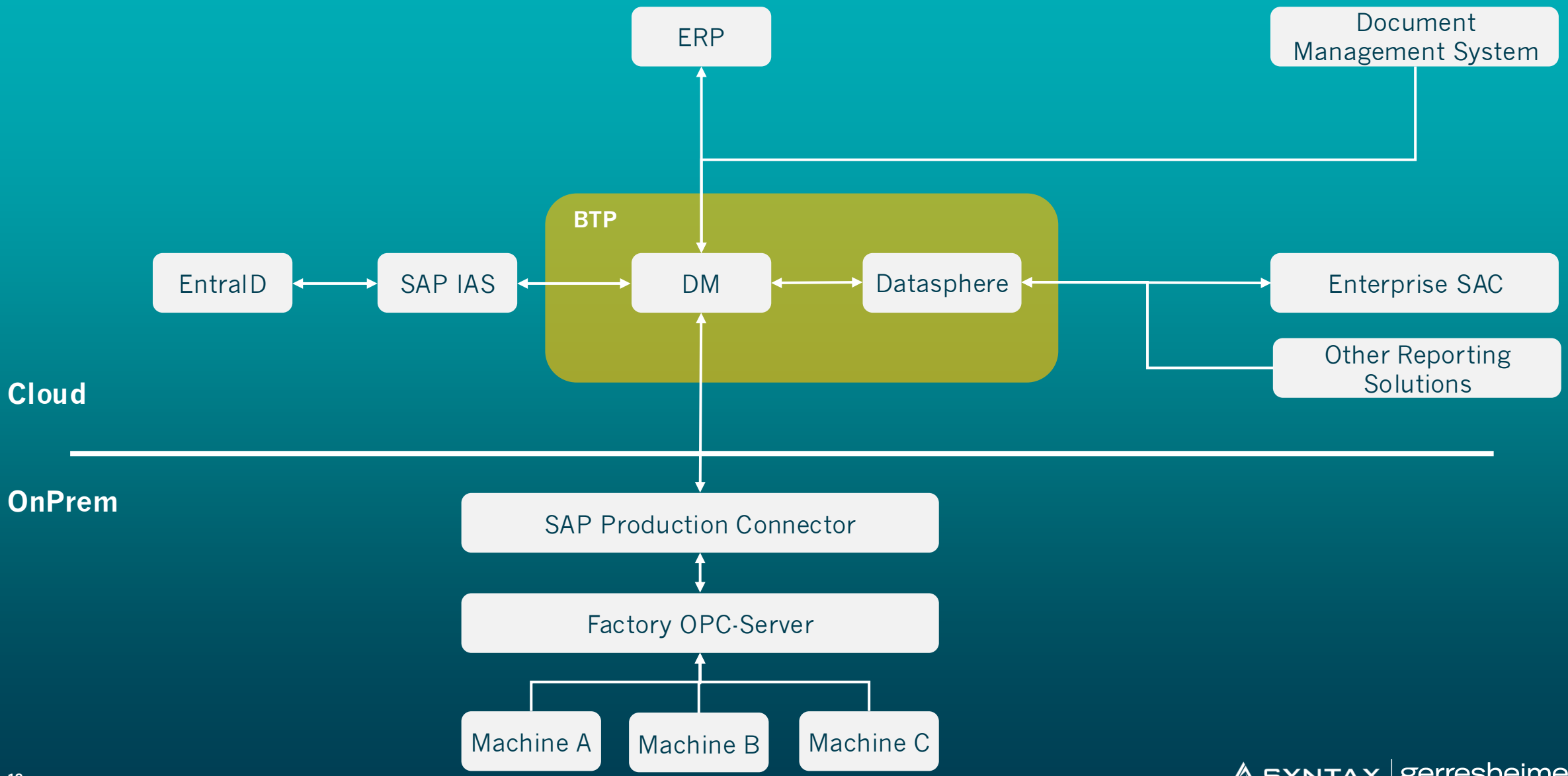
Backup

Architecture



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Automated Integration of Work Instructions

Content

Work Instruction Elements (1)

Type: URL
Created: Jan 26, 2026, 11:36:43AM
Description: Quality specification

Assignment

Assigned (1)

Material: 000000004446043401/ERP001

DMS Maintenance

Centralized management in DMS

No Manual Effort in DM

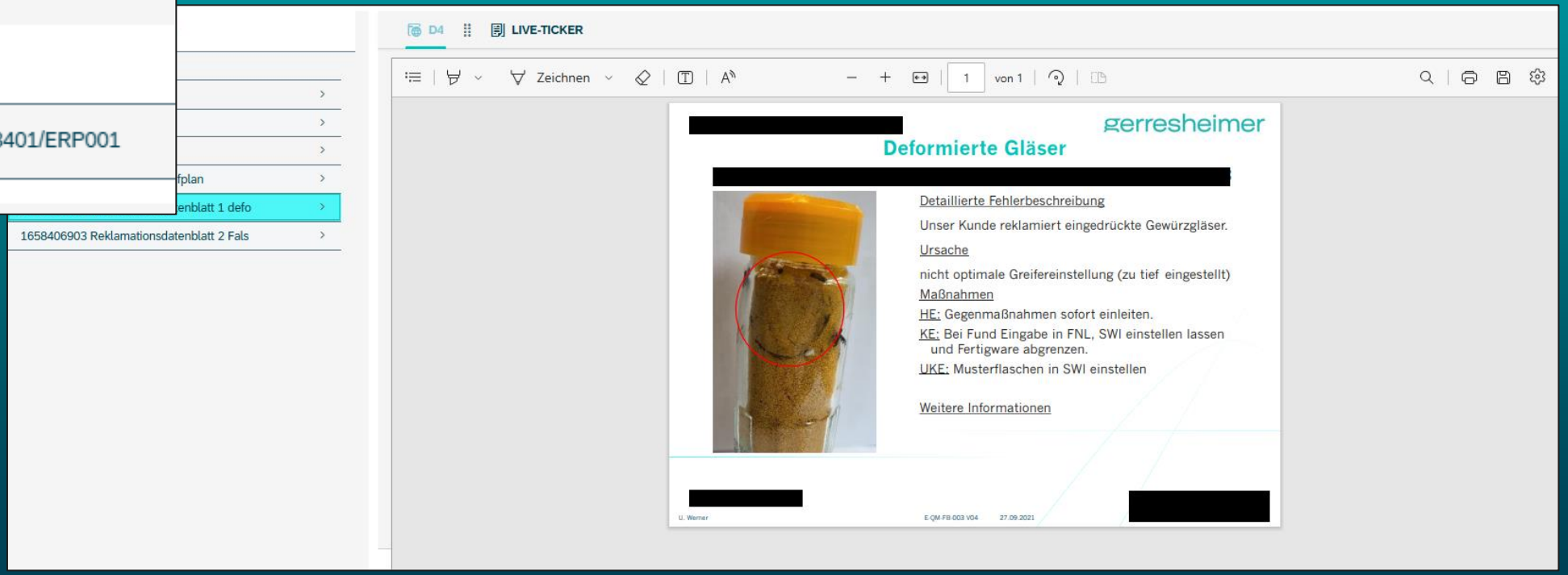
Eliminates manual data entry in DM

Standard API

Automated data synch via DM-API

100% Integration

Ensures complete data integration between systems



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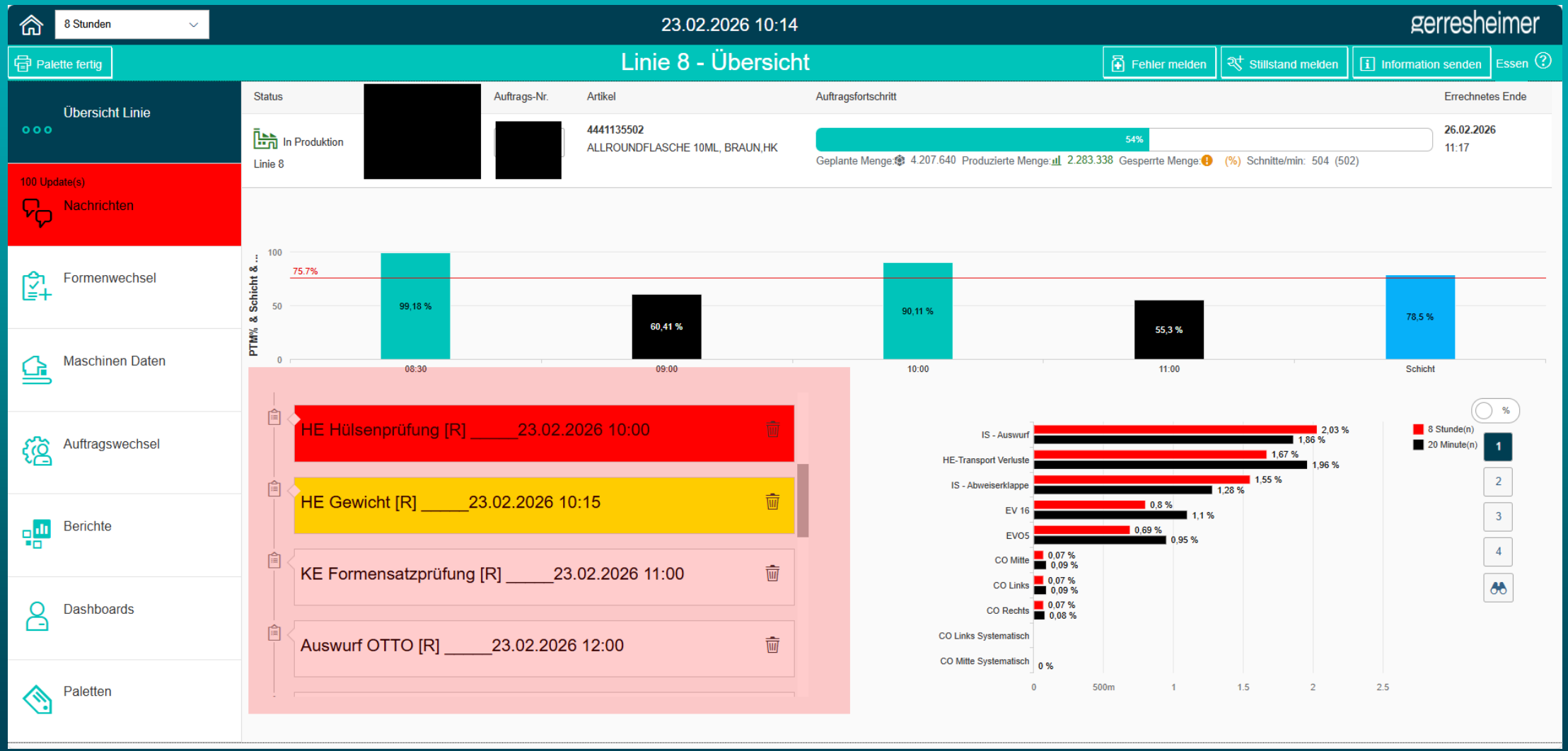
MII to DM

MII had highly customized & overloaded UIs



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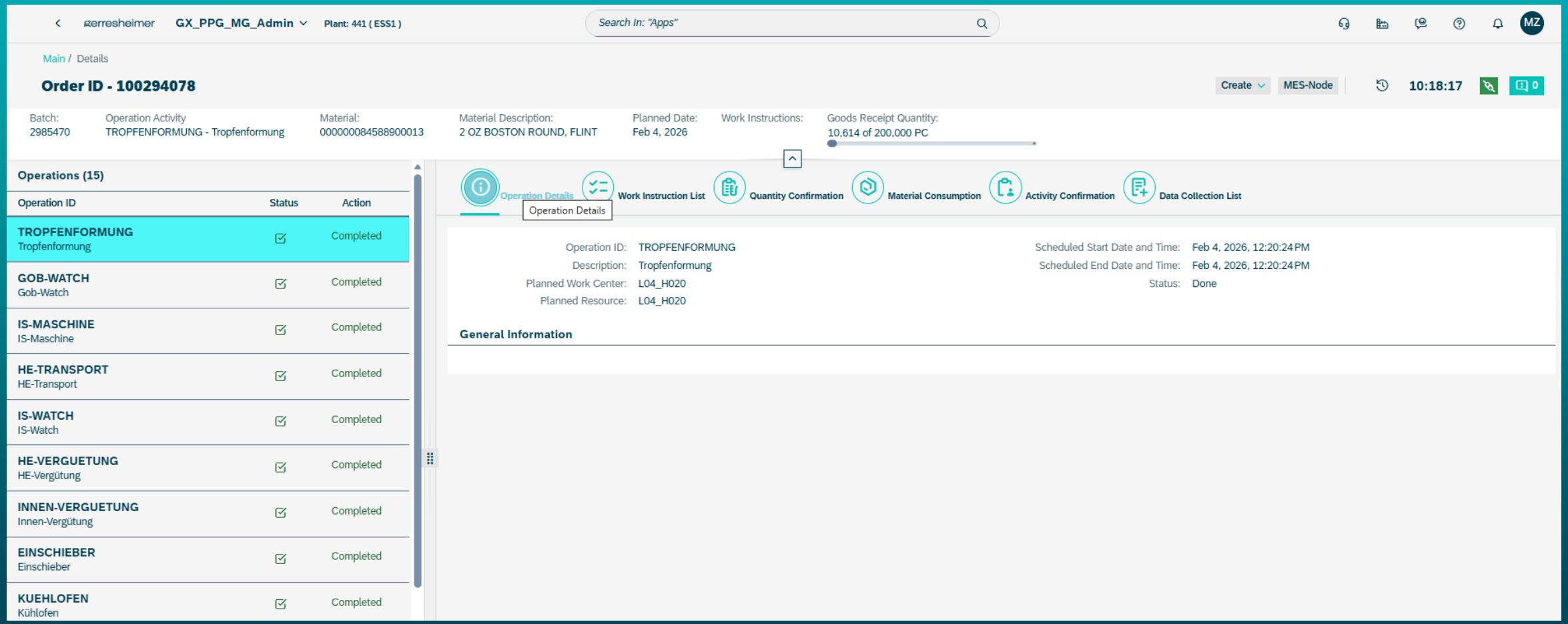
MII to DM

Default Order POD lacked visual clarity for our operators



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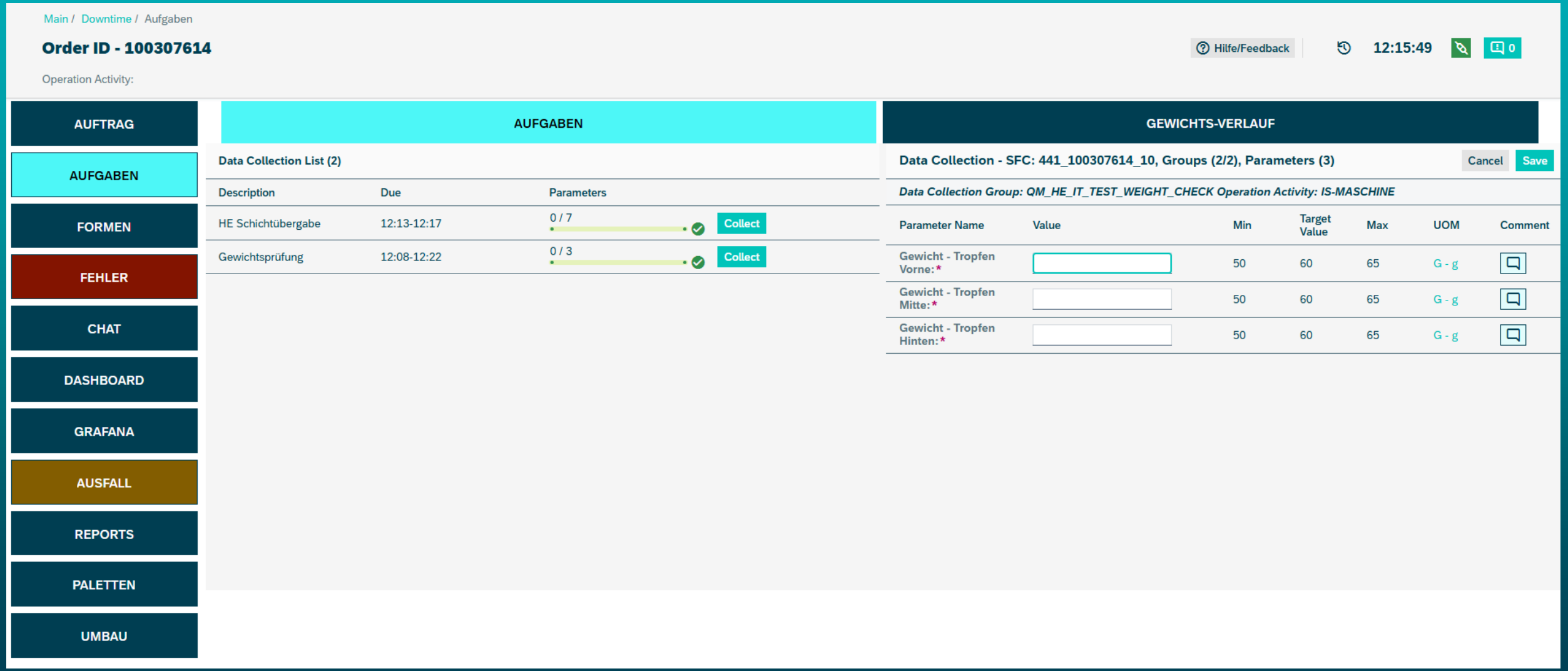
MII to DM

POD-Designer allowed us to create streamlined UIs for the Operator



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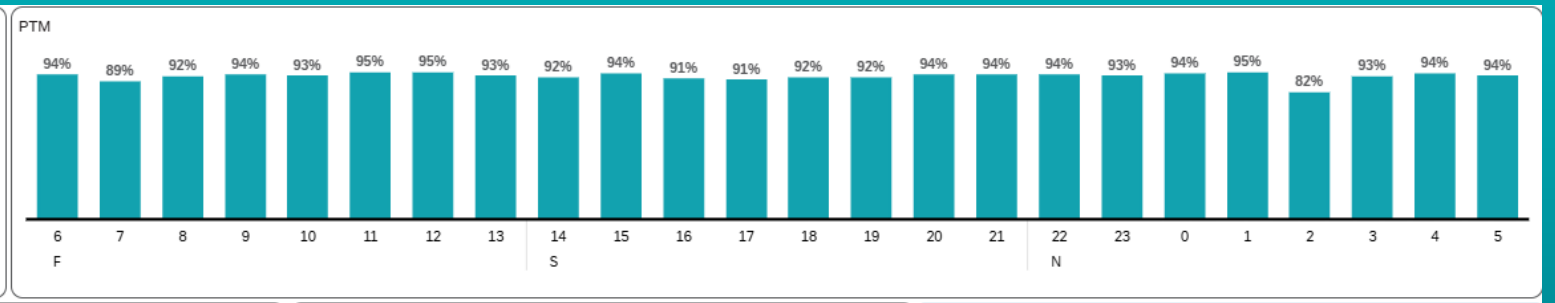
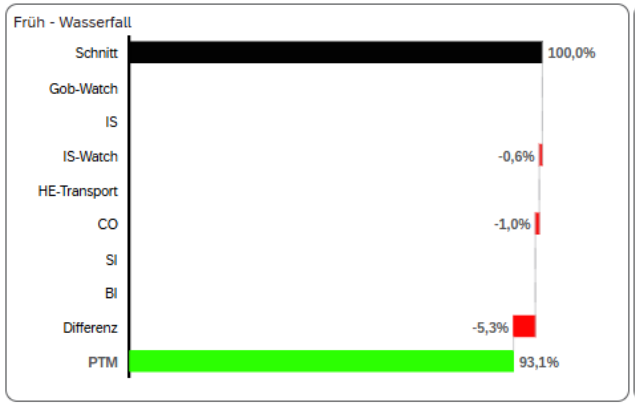
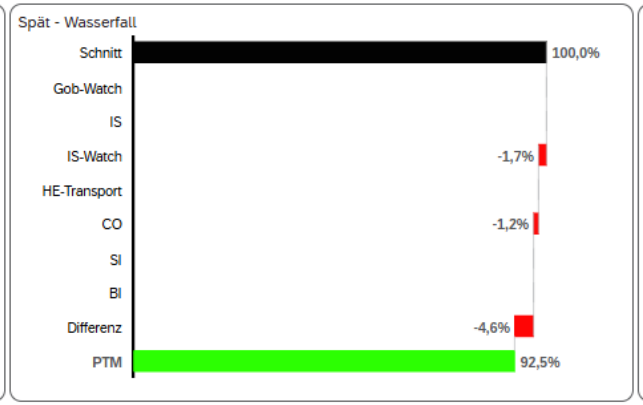
Reporting

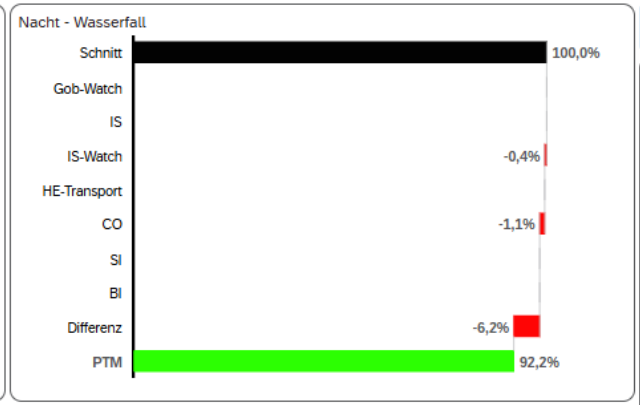
SAC enables rapid, customized reporting BUT strict data modeling is essential

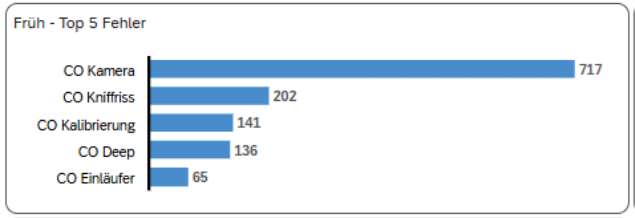
Linie	Datum	Schicht	Auftrag	Artikel	Measures: KB Einlauf	PTM
L09	22.02.2026	F	100307620	Portionsflaschen 20 ml, Braun HK	90,9	93,1
		S	100307620	Portionsflaschen 20 ml, Braun HK	90,9	92,5
		N	100307620	Portionsflaschen 20 ml, Braun HK	90,9	92,2

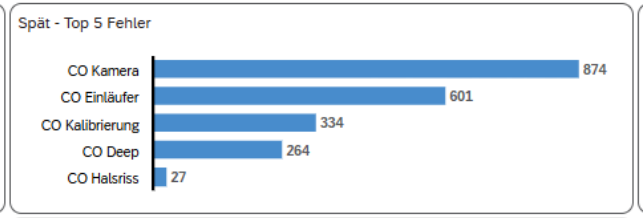


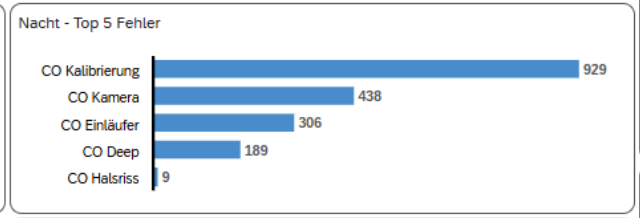


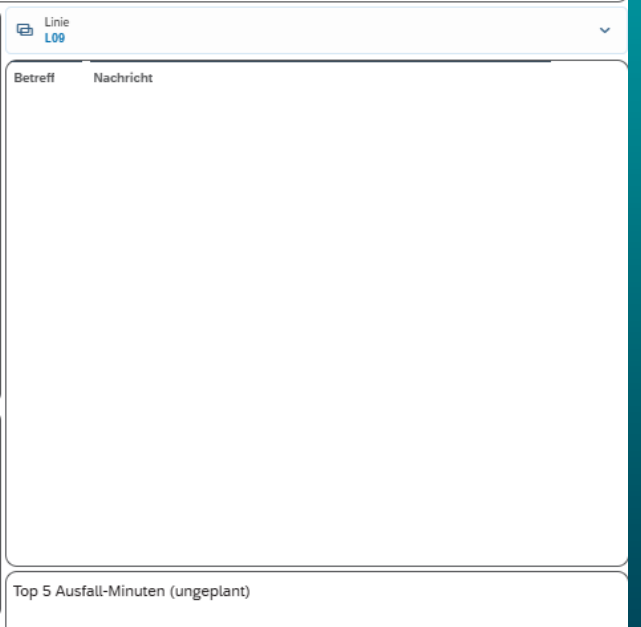












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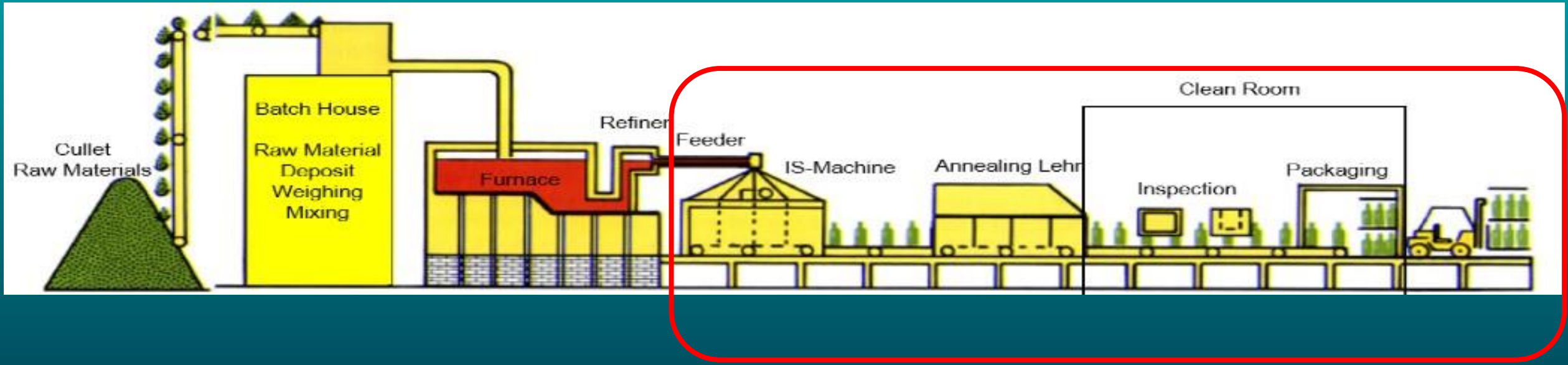
Process Flow



Current Scope of DM

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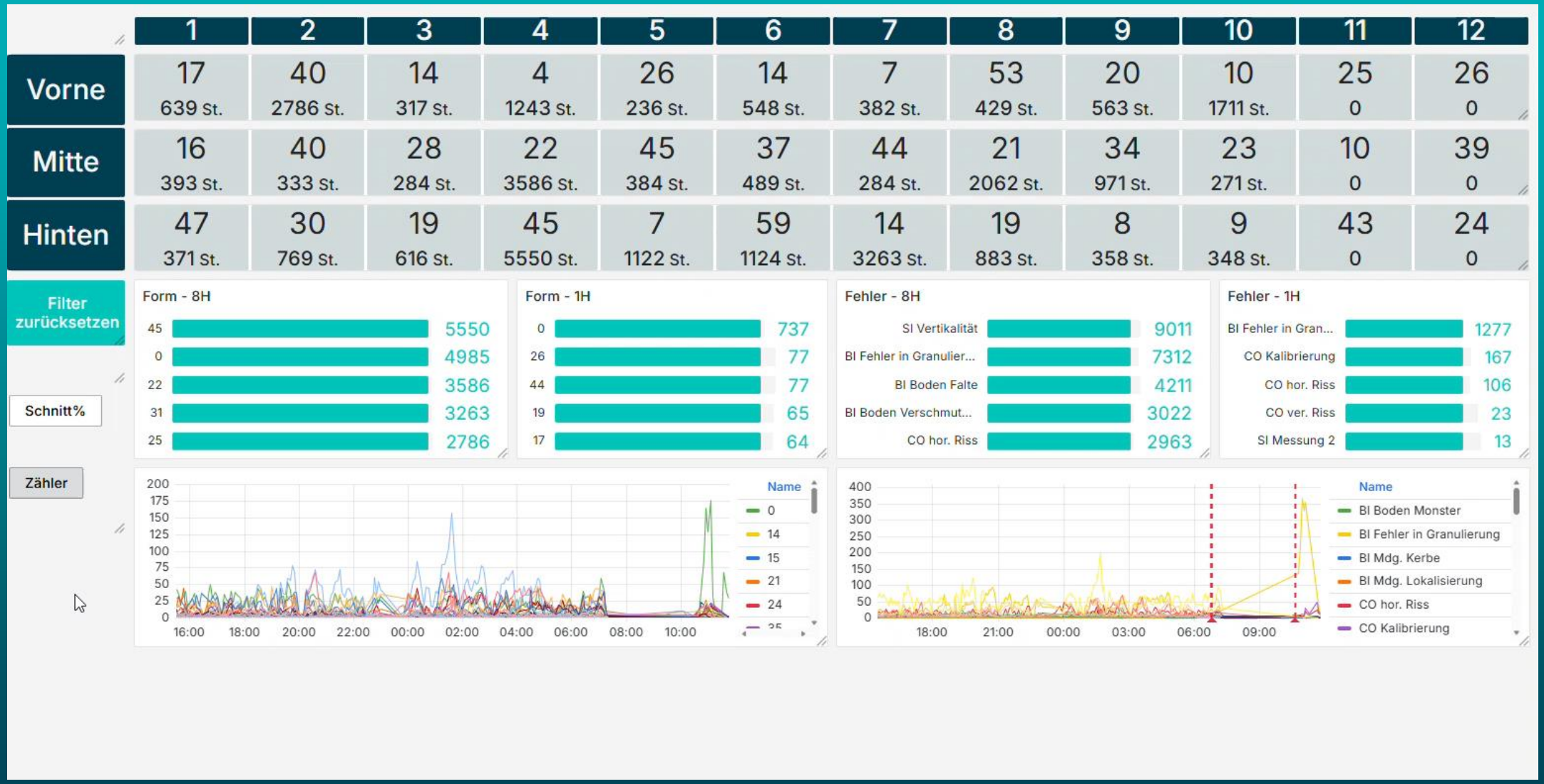
Grafana Integration



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