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5 – 6 JUNE 2025

ROYAL PINES RESORT | GOLD COAST

# The Future of Asset Management – How SAP is closing the loop between Reliability and Operations

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**MASTERINGSAP**  
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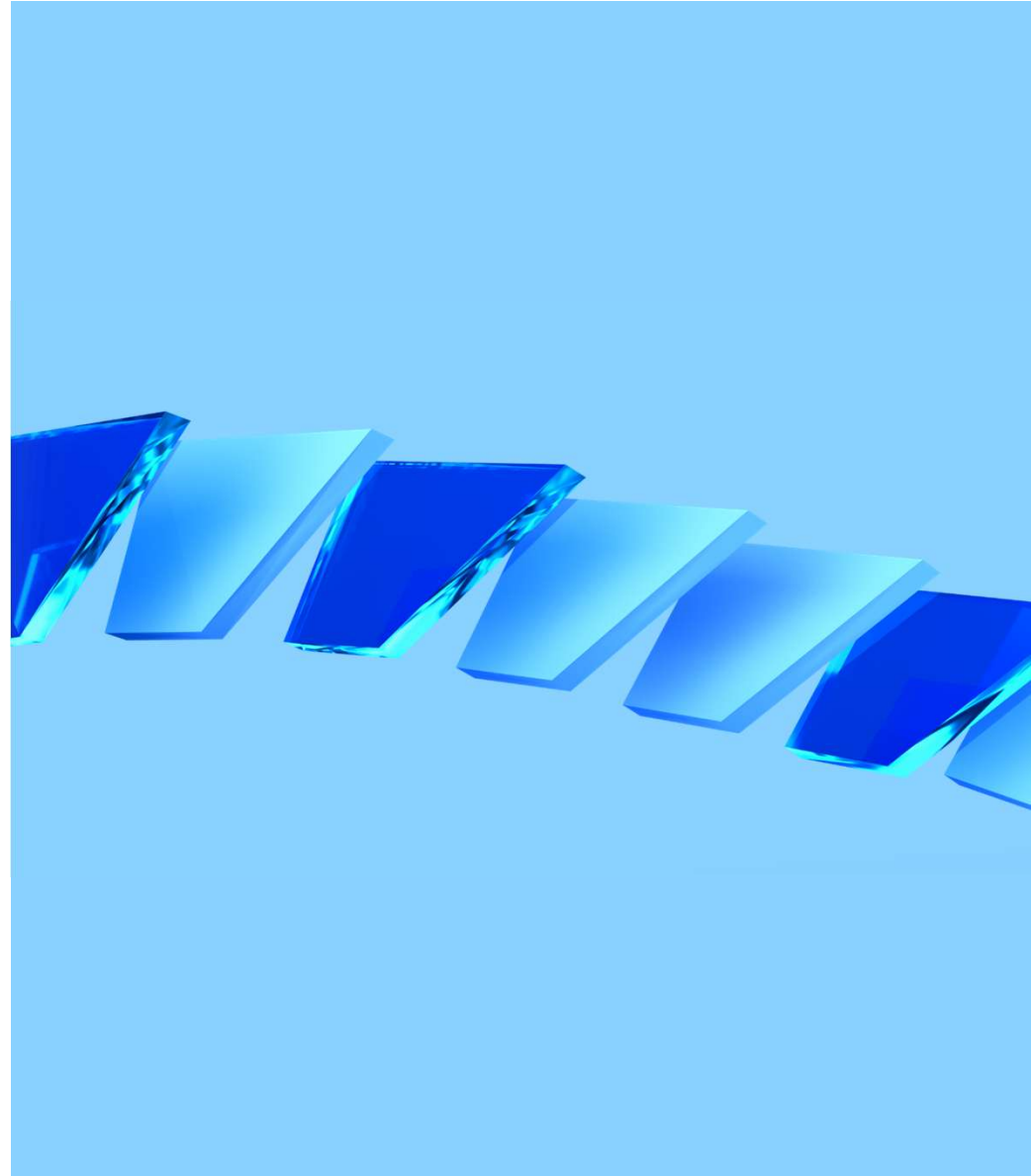
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# Agenda

- 1 **Our Strategy + What you can do right now**
- 2 **What's New & Roadmap**
- 3 **Question & answer**  
Open discussion + come to the booth!



# Overview & Strategy





## The State of Asset Management – 6 Key Highlights\*

**25,000  
people**

### **Are you having a skills crisis?**

62% of organisations report critical shortages in maintenance and reliability roles, with projections Australia will face a deficit of 25,000 qualified maintenance professionals by 2027.

**37% of  
knowledge**

### **Do you have a Knowledge leak?**

37% of technical knowledge (e.g. in mining) is undocumented and resides solely with experienced personnel. With 4.5% knowledge lost annually through turnover.

**29% of  
time**

### **Do you have a Productivity Gap?**

Australian organisations average only 29% tool time for maintenance personnel, below international benchmarks of 55-60%.

**76% fail**

### **Have you struggled with AI returns?**

While 72% of asset-intensive organisations are exploring AI applications, 76% of these initiatives fail to achieve expected returns due to poor implementation.

**14.6  
Hours**

### **Are you overwhelmed by Data?**

78% organisations collect more maintenance data than they can effectively analyse, with professionals spending 14.6 hours per week searching, validating or reconciling data.

**28%**

### **Is Safety & Maintenance Connected?**

27% of serious workplace incidents in heavy industry have maintenance as a contributing factor, yet only 28% of organisations have achieved substantial integration between safety and asset management functions.

# SAP Asset & Service Management

Help the world's assets run better and unleash people to differentiate

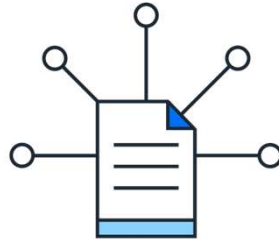
## Connected Processes



### **Closed loop business process orchestration**

Connect every process from maintenance strategy, planning and execution through closed-loop processes and integrated data, enabling continuous improvement.

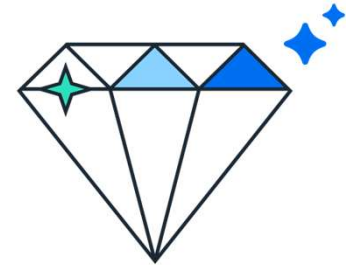
## Data



### **Enable a complete view of an asset's lifecycle with a unified asset data thread.**

Transform insights into meaningful improvements by uniting asset and service intelligence across your entire enterprise and via business networks.

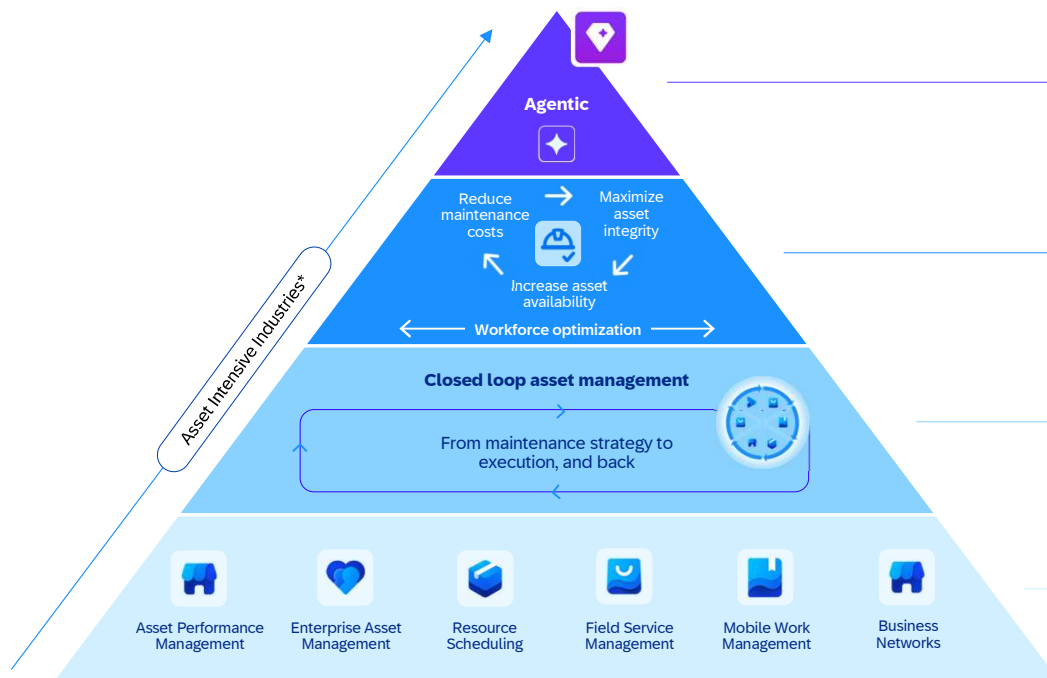
## AI



### **Unlock insights and automate processes with AI**

Supercharge business processes and unlock value with AI to automate workflows, drive insights, and optimize maintenance and service programs.

# A new era of Asset and Service Management



## Autonomous asset & service management

**Agentic AI** to deliver a unique advantage in cross-function collaboration and automation, leveraging integrated data to enable smarter decisions and transformative outcomes.

## Drive asset and service performance

Address the needs in asset intensive industries with **reliability engineering at scale** for a large volume of equipment and its associated work, and **dynamic AI schedule optimization**.

## Connect every process

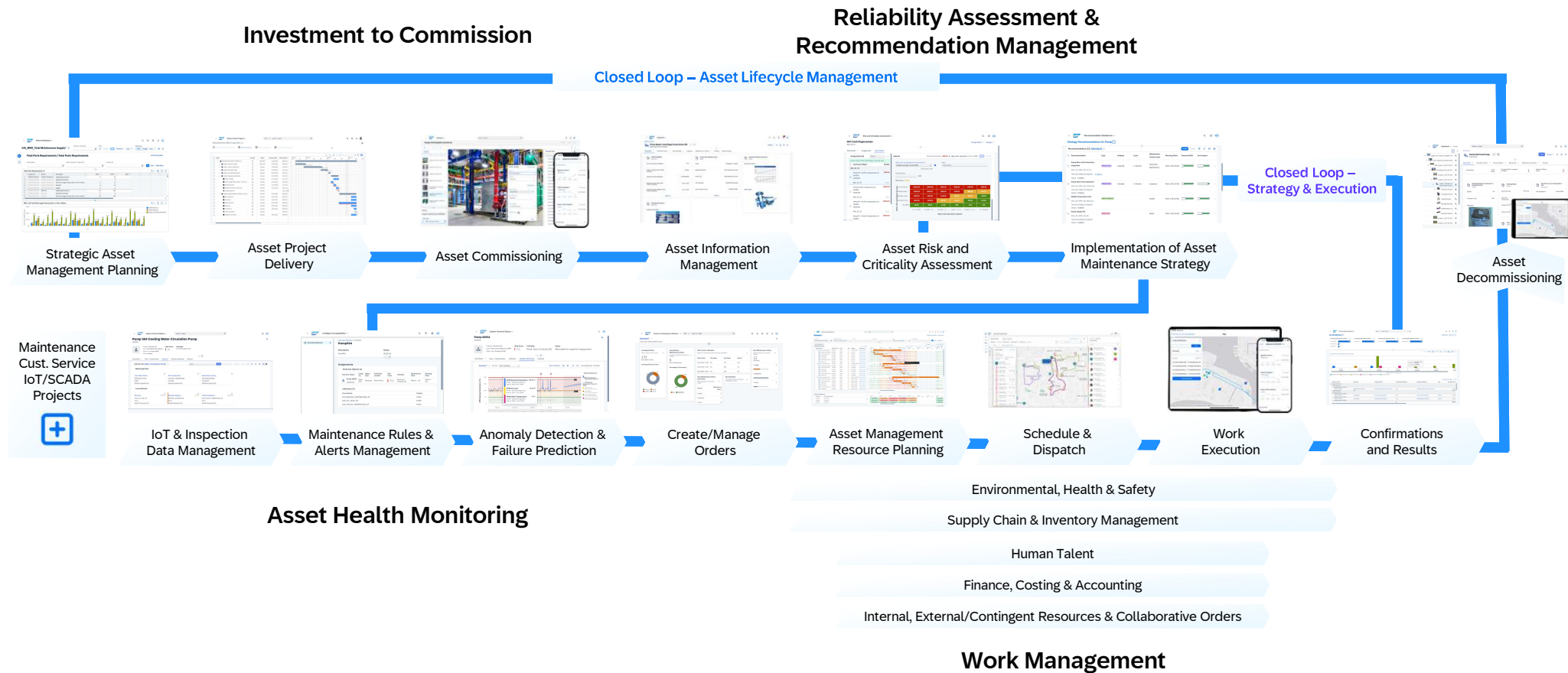
**Close the loop** between strategy and execution to define, implement, execute and monitor the optimal asset maintenance.

## Suite of Applications

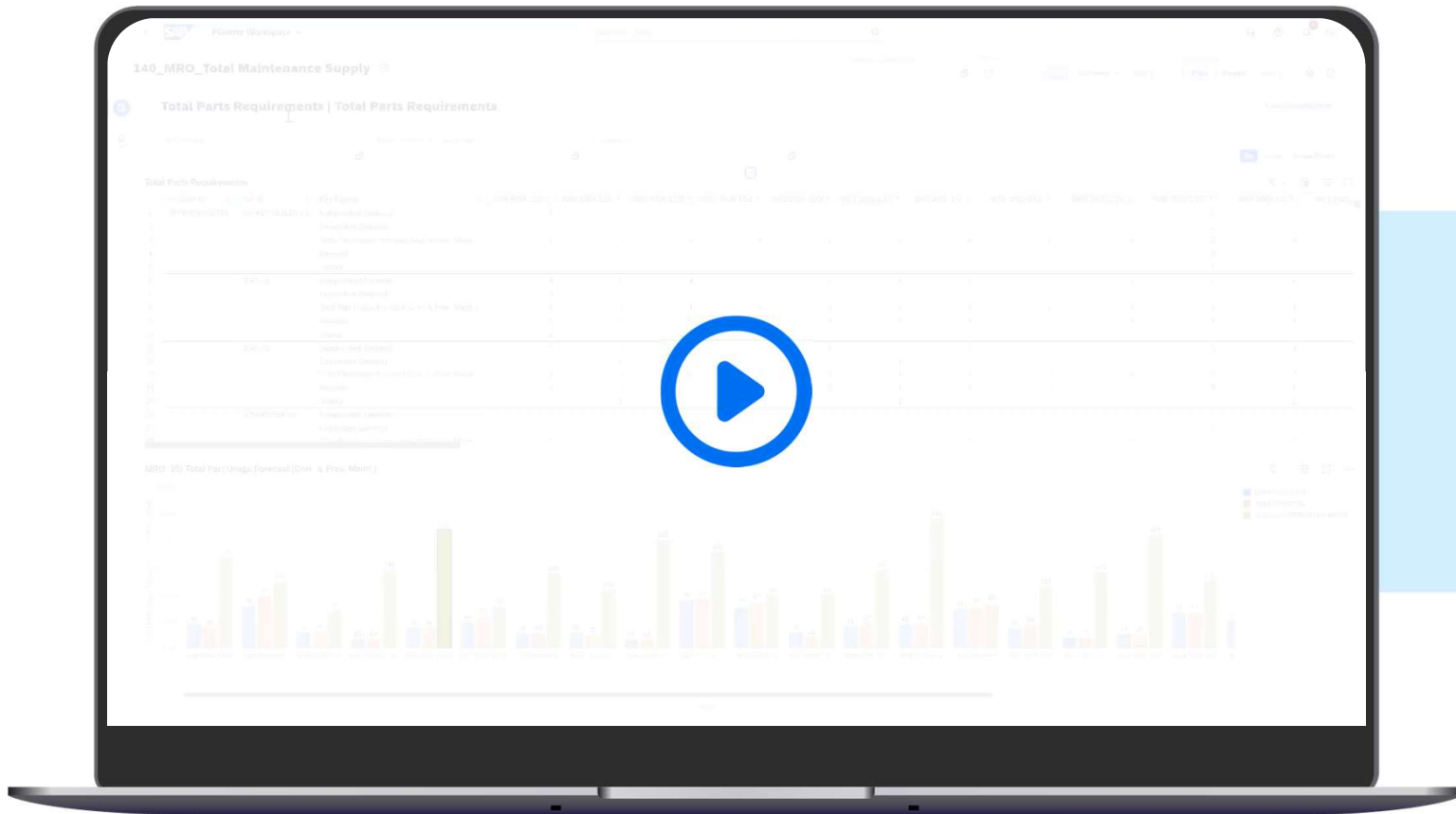
Modularized, tailored, integrated for SAP Business Suite.

\* Oil & Gas, Energy – Travel & Transportation – Mill & Mining – Chemical/Pharma – Utilities – Industrial Manufacturing

# Closed loop Asset Lifecycle, enabled by SAP S/4HANA



# Closed Loop Asset Lifecycle - What is available today!



# What's New & Roadmap

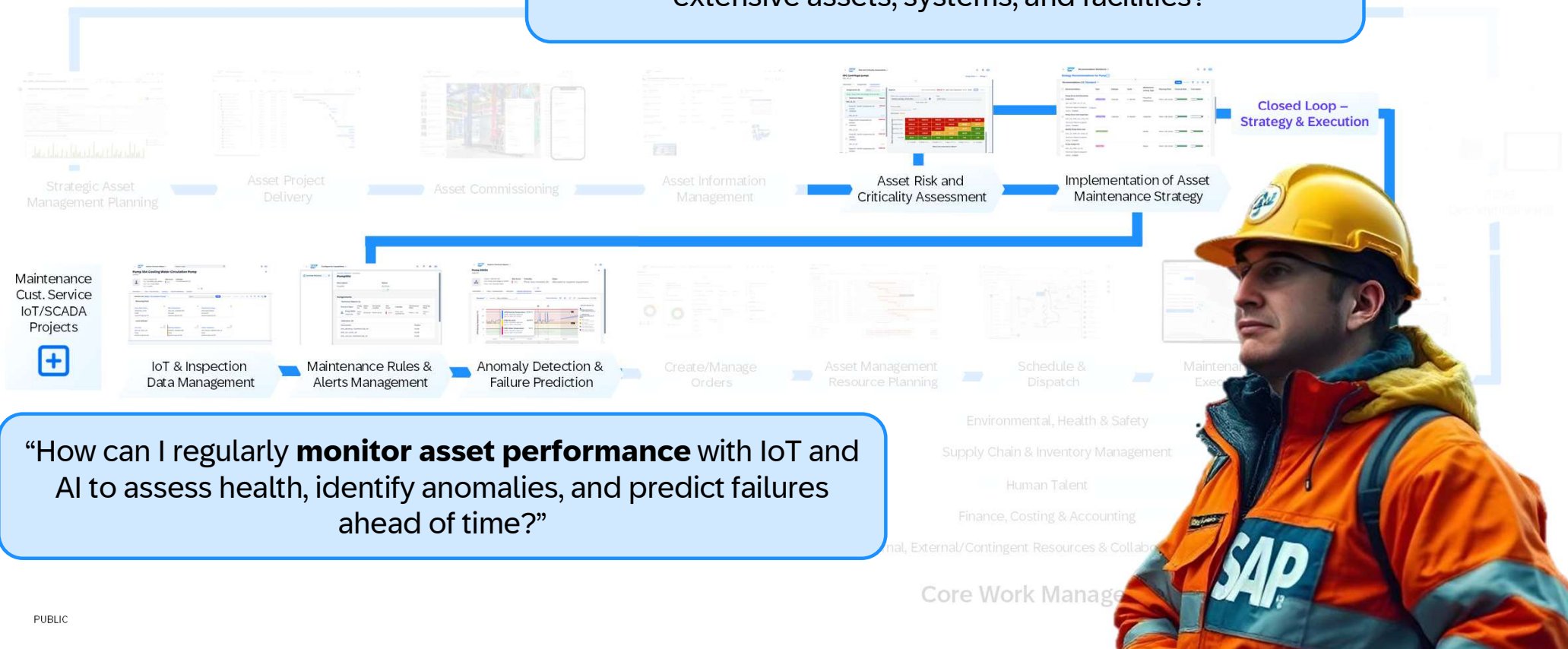




## SAP Asset Performance Management

“How can I perform **asset reliability engineering at scale** by systematically applying reliability principles across extensive assets, systems, and facilities?”

Investment to Commission



“How can I regularly **monitor asset performance** with IoT and AI to assess health, identify anomalies, and predict failures ahead of time?”

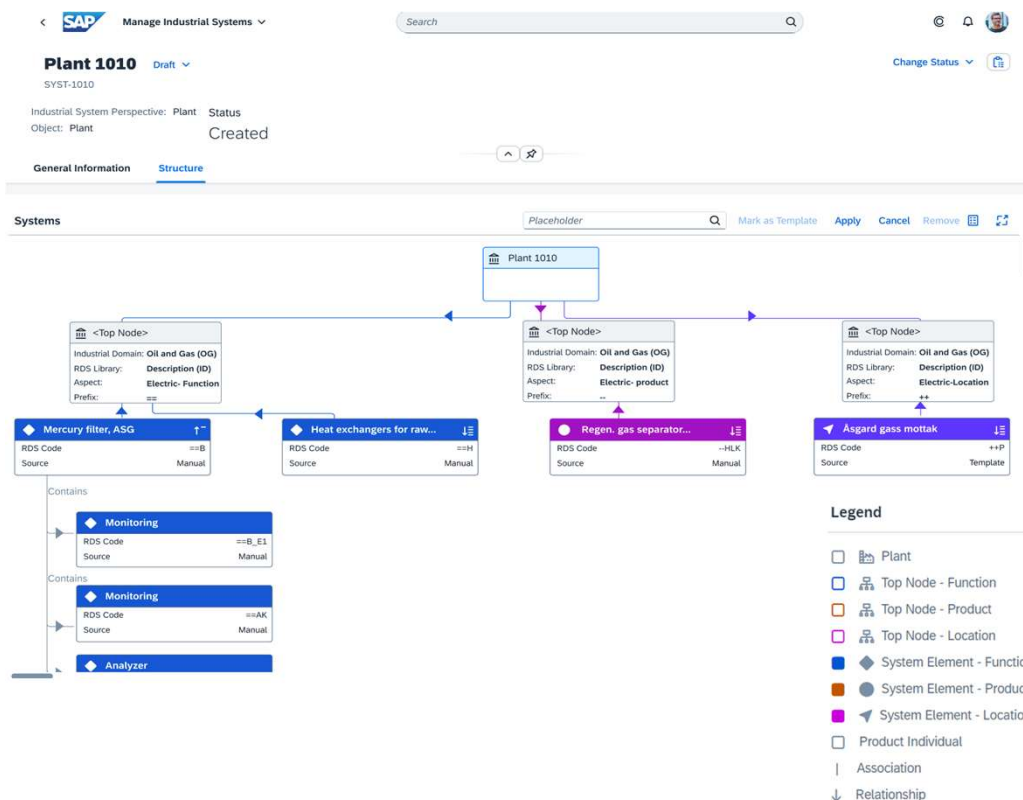
## Industrial Systems

Available Now - APM

Roadmap – S/4HANA



Documentation



### CHALLENGE

Customers must choose a single leading structure to represent their assets, making it challenging for end users to find and manage assets from different perspectives (for example, functional aspects, product aspects, and location aspects).

### SOLUTION

#### SAP Asset Performance Management – Industrial System

- Based on Industry Standards like ISO 81346 describing multiple aspects of an object
- Complementary and connected to existing Technical Object Structure
- Integrated into SAP Asset Performance Management and SAP S/4HANA Asset Management Processes

### OUTCOMES

- Help model complex industrial systems based on different perspectives such as functional structures, product structures and location structures
- Perform reliability engineering for high volumes of equipment
- Improve usability in finding the right technical objects based on different aspects

# Reliability Engineering at Scale for Optimized Asset Performance

by applying the most cost-effective maintenance while upholding safety and integrity

## Goal

Reduce  
maintenance  
costs



ongoing

Maximize  
asset  
integrity

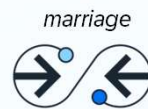
Increase  
asset  
availability

## Approach

### Top-down (enterprise view)

Function consequence assessment (high, medium, low) through loss-of-function evaluation.

Efficient, generic, at scale.



marriage

High	High
High	Medium
High	Low

Risk-based & consequence-aware strategy development

### Bottom-up (local view)

Failure mode criticality assessment (high, medium, low) for group of similar equipment.

Effective, specific, compliant, at scale.

## Execution

### Define strategy

Develop risk-based maintenance strategy including reactive, proactive and improvement measures.



operate  
and  
maintain

### Implement strategy

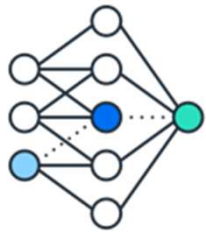
Implement maintenance strategy to optimize maintenance backlog (plan, schedule, dispatch, execute) and supply chain activities.

Improve reliability and safety whilst reducing unplanned maintenance and repair costs



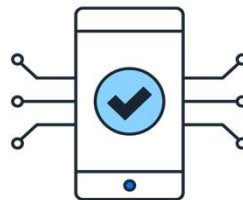
# SAP Asset Performance Management with Embedded IoT

Continuously monitor asset health using AI to increase reliability and reduce unplanned downtime



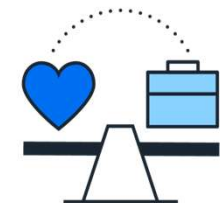
## Simplify data integration scenarios with existing data sources

Integrate any existing IoT data sources including data historians, data lakes, or legacy OT platforms, and ingest sensor data for AI and analytics.



## Plug and play connectivity with IoT gateways and devices

Connect and manage diverse IoT landscapes with support of built-in device protocols, edge computing frameworks and Cumulocity-certified partner devices.

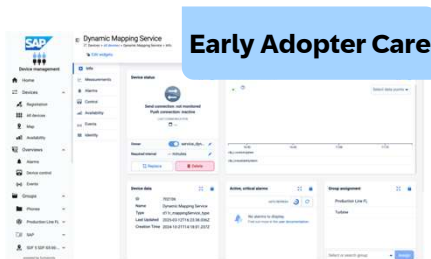


## Continuously monitor asset health in a closed loop

Detect anomalies and predict potential failures using AI and rules based on streamed or batched sensor data to optimize maintenance activities.

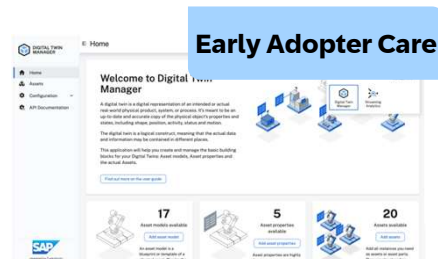
SAP S/4HANA Cloud & SAP Business Technology Platform

## Real-time Asset Health Monitoring with Embedded IoT



### Device Connectivity & Management

Access to embedded IoT platform for **device integration** (standard protocol support) and **device management**



### Digital Twin Manager

**Data integration** and **harmonization based on flexible mapping** of data points to SAP Asset Performance Management indicators (IT/OT integration)



### IoT Cockpit

**Customizable visualization** of IoT device data based on configurable dashboards and widgets



### Streaming Analytics

**Low-code / no-code** environment to define streaming rules for **monitoring** and **derivation** of time series data



# Device Connectivity & Management Early Adopter Care

## Simplified Connectivity Scenarios with Plug n' Play to Smart Devices and IoT Gateways

### CHALLENGE

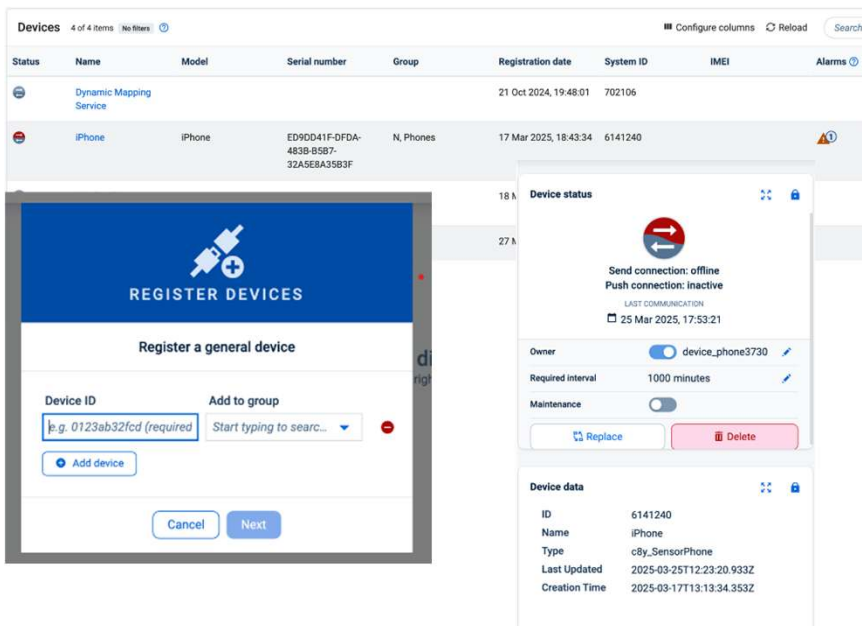
Need to manage complex and fragmented IoT landscapes and bring sensor data to action. Devices become harder to maintain, increasing security risks, failures, and costs—especially as the fleet grows in size and complexity.

### SOLUTION

- Pre-integrated IoT gateways: Choose from Cumulocity-certified devices for easy integration.
- Direct integration: Use HTTP REST or MQTT interfaces, ideal for microcontroller-based devices.
- OPC UA and Cloud Fieldbus: easy integration with equipment and protocols like CAN, Profibus, and Modbus
- Device management: Onboarding, OTA updates, configuration management, connection monitoring, remote diagnostics, device swapping

### OUTCOMES

- Simplified IoT landscape: Connect and manage diverse landscapes with support of built-in device protocols, edge computing frameworks and Cumulocity-certified partner devices.







COCKPIT

Home



SL

Edit widgets

Dashboard settings

Reset widgets



- Home
- Groups
- Alarms
- Data explorer
- Reports
- My Dashboard
- MyOwnReport
- Report
- SAP Test Report
- Configuration

## Welcome to Cockpit

The Cockpit application provides you with options to manage and monitor Internet of Things assets and data from business perspective.

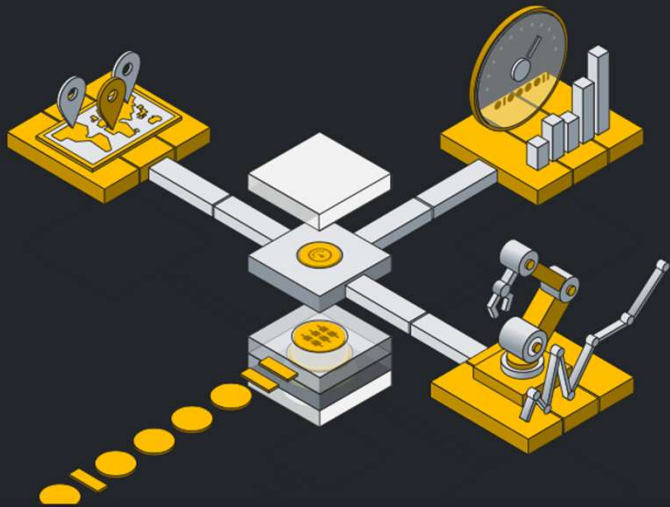
Connect smartphone

Register device

Add group

Reports

Exports



### Active, critical alarms

AUTO REFRESH

7



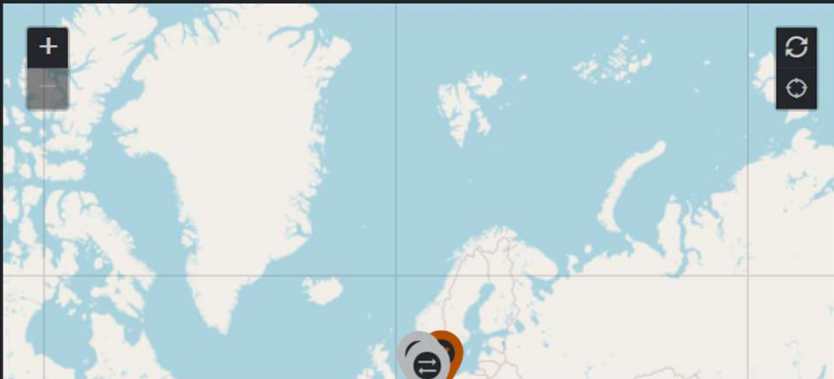
Dec 5, 2024  
6:56:09 AM



Data broker is not able to connect to destination tenant for connector 11428. Events will not be forwarded until the connection is restored.

Data Broker edge

### Map



powered by Cumulocity



## Device management

- Home
- Devices
- Registration
- All devices
- Map
- Simulators
- Availability
- Overviews
- Groups
- Device types
- Management
- Home
- Configuration
- Mapping
- Monitoring

powered by Cumulocity

## Device registration 3 new devices

Devices > Device registration

Display as Auto

test-1

STATUS  
Waiting for connection

Cancel

CREATED ON 28 Apr 2025, 00:40:24  
BY atai.mamytov@sap.com

## REGISTER DEVICES

### Register a general device

Device ID

e.g. 0123ab32fcd (required)

Add to group

No items

+ Add device

Cancel

Next



SL

✓ Accept all

↻ Reload

Register device



STATUS  
Waiting for connection

Cancel

CREATED ON 14 Apr 2025, 06:20:06  
BY nicole.pompejus@sap.com



## Device management

- Home
- Devices
  - Registration
  - All devices
  - Map
  - Simulators
  - Availability
- Overviews
- Groups
  - 
  - 
  - 
  - 
  - 
  - 
  - 
  -

powered by Cumulocity

## iPhone

Devices > All devices > iPhone > Info

Edit widgets

### Info

- Child devices
- Measurements
- Alarms
- Control
- Firmware
- Availability
- Events
- Location
- Logs
- Tracking
- Identity

### Device status



Send connection: offline  
Push connection: inactive

LAST COMMUNICATION  
11 Apr 2025, 03:00:14

Owner ☒ device\_phon...  
Required interval 1000 minutes  
Maintenance ☐

Replace

Delete

### Device data

ID 6141240  
Name iPhone  
Type c8y\_SensorPhone  
Last Updated 2025-04-11T10:00:13.053Z  
Creation Time 2025-03-17T13:13:34.353Z

### Device and communication



Select data points



### Active, critical alarms

AUTO REFRESH



No alarms to display.  
Find out more in the user documentation .

### Group assignment

E\_10003772#EQUI#QM7\_910

EVOMIXX Electrical Enclosure WDF

Motor 01



N



Phones

Select or search group

Assign



## Device management

- Home
- Devices
- Registration
- All devices
- Map
- Simulators
- Availability
- Overviews
- Groups
- 
- 
- 
- 

## iPhone

Devices > All devices > iPhone > Measurements



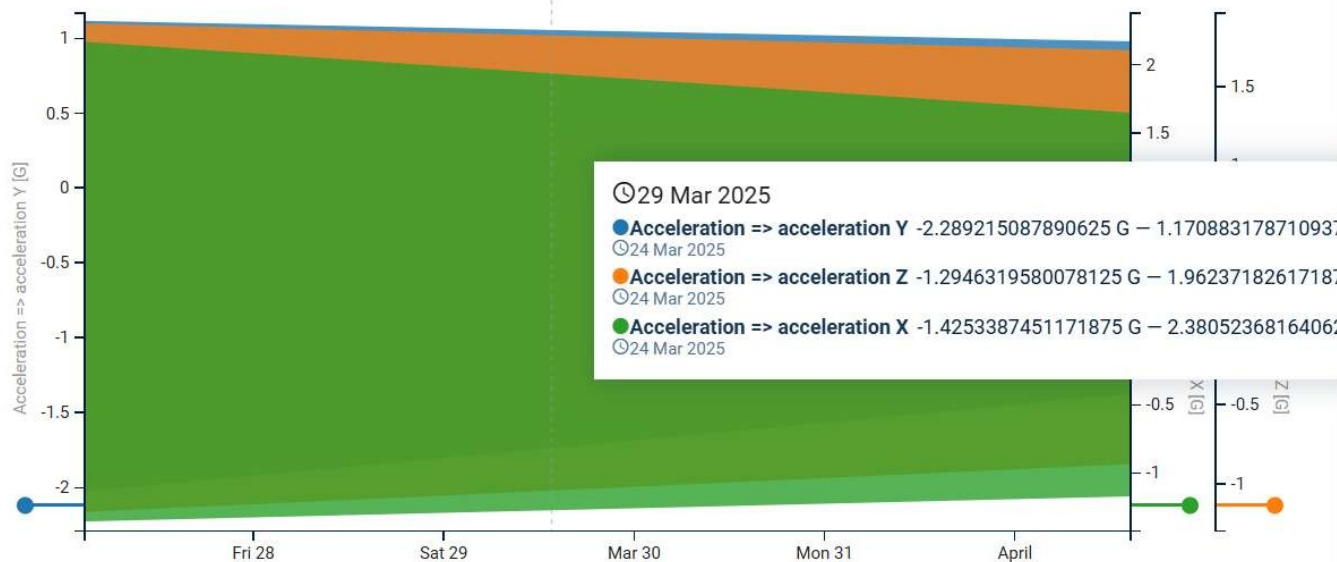
Realtime More...

- Info
- Child devices
- Measurements
- Alarms
- Control
- Firmware
- Availability
- Events
- Location
- Logs
- Tracking
- Identity

### Acceleration

Aggregation Daily Custom

From 2025-03-27 02:44 To 2025-04-01 14:35



### Compass

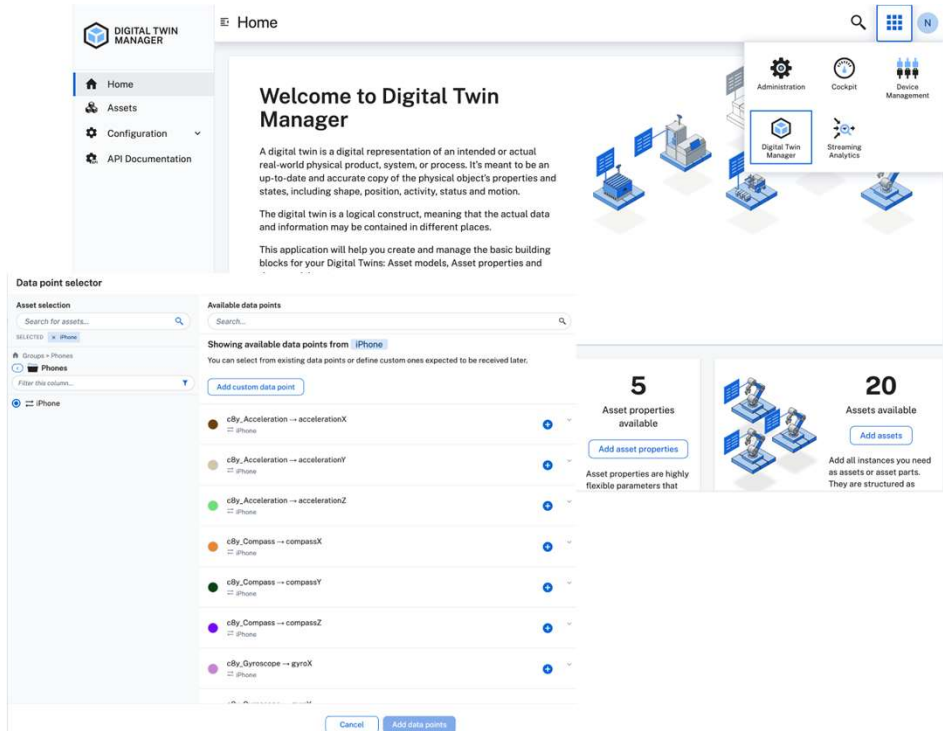
Aggregation Minutely Last hour



# Digital Twin Manager

Early Adopter Care

## Bring IoT devices to the context of SAP S/4HANA and Asset Performance Management



PUBLIC

### CHALLENGE

Need to create relevant context for IoT devices and sensors and connect them to the SAP data model to gain insights as related to the world of asset management. Without this context, the IoT data are just timestamps and numbers.

### SOLUTION











- Structure devices into SAP S/4HANA Asset Management domain data model in terms of technical objects and asset hierarchy
- Manage data points (i.e. tags or sensors) as indicators to SAP Asset Performance Management

### OUTCOMES

- Unified, contextualized view of IoT: Model devices types and properties, and map to SAP technical objects. Sensor data is then linked to indicators,
- Lower cost and quicker time-to-value: with prepackaged GUI, data ops and reliability engineers can quickly create the interface or mapping between their OT landscape to SAP Asset Performance Management

**Assets** 43 items

 Configure columns
  Reload

Name	Description	Asset model	
> <input type="checkbox"/>  Production Line FL		Production Line FL	⋮
<input type="checkbox"/>  SDF 5 SDF-S5-00-00		FLOC	⋮
> <input type="checkbox"/>  Turbine	A test asset	Turbine model	⋮
> <input type="checkbox"/>  TurbineN	TurbineN	Turbine model	⋮
<input type="checkbox"/>  WDF 49			⋮
<input type="checkbox"/>  [SAP] Plan BLR-04			⋮
<input type="checkbox"/>  [SAP] Plant A -FL			⋮
<input type="checkbox"/>  [SAP] Plant A -FL			⋮
<input type="checkbox"/>  [SAP] Plant A -FL-2			⋮
<input type="checkbox"/>  [SAP] Plant AB-FL			⋮

1-30 of 43

Items per page 30 ▾



E\_10003772#EQUI#QM7\_910

## Data point selector

### Asset selection

Search for assets...

SELECTED ✕ SensorTag

Groups > E\_10003772#EQUI#QM7\_910 > iPhone

< iPhone

Filter this column...

☐ 63339

☐ ELM327

☒ SensorTag


### Available data points


Search...


Showing available data points from **SensorTag**


You can select from existing data points or define custom ones expected to be received later.

Add custom data point

 c8y\_SensorTagAcceleration → accelerationX  
SensorTag

 c8y\_SensorTagAcceleration → accelerationY  
SensorTag


 c8y\_SensorTagAcceleration → accelerationZ  
SensorTag

 c8y\_SensorTagBarometer → Barometer  
SensorTag

 c8y\_SensorTagBattery → Battery  
SensorTag

 c8y\_SensorTagCompass → compassX  
SensorTag

### Selected data points

 No data points selected.  
Select the asset, then on the available data points list, click on the plus button on the desired data point.

Cancel

Add data points

# Streaming Analytics

Lab Preview

## Continuously monitor asset health based on streaming data and analytics

The screenshot displays the SAP Asset Performance Management interface. At the top, the 'Smart Rules' section is titled 'Wizard-driven rules creation' and describes creating smart rules from templates to analyze data in real-time and perform actions based on data. Below this is a 'Smart Rules' icon. The main section is the 'Analytics Builder', titled 'Drag & drop models with pre-built analytics'. It describes building models in a graphical environment by combining pre-built blocks to transform or analyze streaming data. The interface shows a sidebar with navigation options like Home, Analytics Builder, and EPL Apps. The main workspace contains a flow diagram with blocks for 'crtc\_Temp', 'Threshold 50', and 'Trigger'. A 'Learn more' button and an 'Open' button are visible. On the right, a 'TriggerRule' configuration panel is shown, detailing rule name, rule ID, and input port details.

## CHALLENGE

Need to enable reliability engineers to transforming IoT data into insights & driving actionable decisions in a scalable fashion, without IT or advanced analytics specialists for support,

## SOLUTION

- Smart rules offer a quick start for analytics with a wizard-drive approach for the most common IoT analytics and monitoring use cases
- Streaming Analytics enables more complex rules, such as calculating business metrics (e.g., uptime or utilization). Real-time rules can trigger outputs such as sending operations back to equipment.

## OUTCOMES


- Increased asset reliability: Quick response to potential failures, allows for predictive maintenance, reducing unplanned downtime.
- Data-driven insights: Continuous data collection gives you a detailed picture of how assets behave over time; enables smarter decisions and long-term planning





Demo




Roadmap

STREAMING  
ANALYTICS

 Home

 Analytics Builder

 EPL Apps

Analytics Builder

Analytics Builder > Samples

ModelsSamples

Sample name

More filters...

Reload

Aggregate measurements p...

Creates new measurements that average the measurement values for each input source...

AverageMeasurement

Calculate energy consumpti...

Creates new measurements with energy consumption based on the data points...

Energy consumptionSmart ruleMeasurement

On alarm duration increase ...

Increases the alarm severity if an alarm has been active for a specified time period.

AlarmSmart rule

On alarm escalate it

Sends an email or SMS when a specified alarm is created.

AlarmEmailSMSSmart rule

On alarm execute operation

Sends an operation to a device when a specified alarm is created.

AlarmOperationSmart rule

On alarm send email

Sends an email when a specified alarm is created.

AlarmEmailSmart rule

On alarm send SMS

Sends an SMS when a specified alarm is created.

AlarmSMSSmart rule

On geofence create alarm

Creates an alarm if a geofence boundary is crossed.

AlarmGeofenceSmart rule

On geofence send email

Sends an email if a geofence boundary is crossed.

EmailGeofenceSmart rule

On measurement explicit th...

Creates or clears an alarm if a measurement value enters or leaves a threshold range.

AlarmMeasurementThresholdSmart rule

On measurement threshold ...


Creates or clears an alarm if a measurement value enters or leaves the red or yellow range.

AlarmMeasurementThresholdSmart rule

On missing measurements c...

Creates an alarm if no new measurement data has been received for a specified time period.

AlarmSmart ruleMeasurement








powered by Cumulocity

APM\_Rule1\_Temp

Analytics Builder > Models > APM\_Rule1\_Temp

Lab Preview

 Model settings

  100%  

Input

Alarm Input

Event Input

Managed Object I...

Measurement Input

Operation Input

Position Input

Output

Logic

Calculation

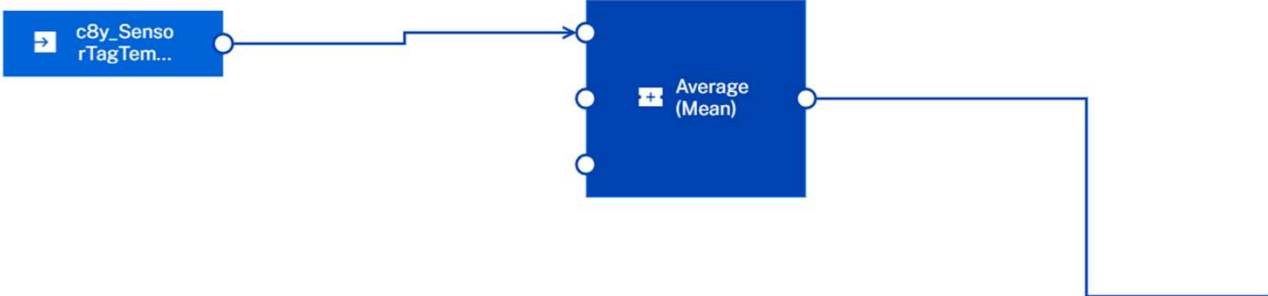
Aggregate

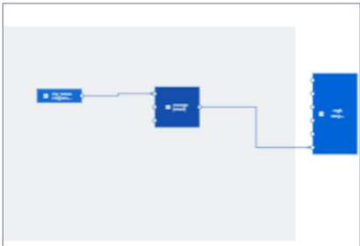
Flow Manipulation

Utility

c8y\_SensorTagTem...

Average (Mean)





APM\_Rule1\_Temp

Analytics Builder > Models > APM\_Rule1\_Temp

Lab Preview

Model settings

[x] - 100% + X

> Input

> Output

> Logic

> Calculation

> Aggregate

> Flow Manipulation

> Utility

Alarm Output

Event Output

Managed Object O...

Measurement Out...

Operation Output

Send Email

Send SMS

Trigger Rule

Average (Mean)

### High Temp Alarm

Creates a new Alarm object for a specified device, asset or for the trigger device with a pre-configured alarm name and parameters.

Parameters

Output Destination  
= iPhone

Alarm Type  
= High Temp

Message - Optional  
= Check the engine

Severity - Optional  
= Warning

Params Fragment - Optional  
=

= Create Asynchronous Output

= Always Activate Alarm

Create...

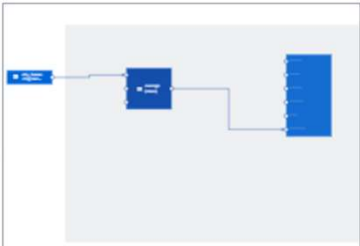
Clear...

Severity

Message

Time

Properties

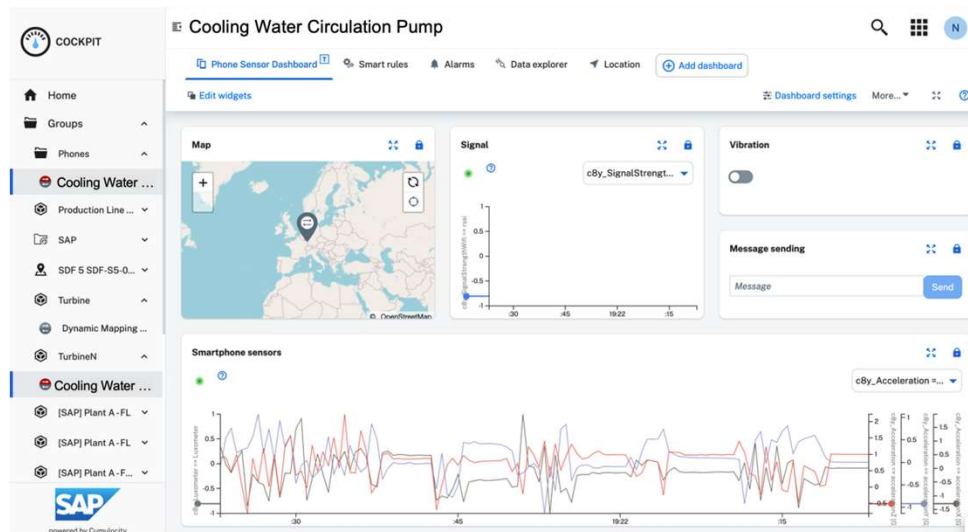




# IoT Cockpit

Early Adopter Care

User-friendly interface for reliability engineers to interact and visualize with IoT-enabled assets



## CHALLENGE

Data from IoT devices often ends up scattered across different systems. No unified view of asset status, performance, or health, making it hard to make quick decisions. Team may need to custom-code dashboards, alerts, or automation from scratch.

## SOLUTION

- Customizable dashboarding, visualizations and reporting
- Interact with assets and devices
- Widget collections for typical IoT use-cases

## OUTCOMES

- Improved Operational Efficiency: real-time monitoring reduces manual checks. Quick navigation to smart automation (e.g., alerts, remote control) streamlines routine tasks.
- Faster Time-to-Value: low-code tools allow for rapid deployment of dashboards, alerts, and automation. Business users, i.e. reliability engineers can launch solutions without heavy IT involvement.



My Dashboard

Reports

Add widget

Cancel

Save

Dashboard settings

SL

Applications

Administration

Cockpit

Device Management

Digital Twin Manager

Streaming Analytics

Usage Statistics-1

Alarm list

May 25, 2025 3:11:58 PM

Vacuum pressure exceeds safe limit

ProVac-Max\_Pump Unit 3 #1

May 25, 2025 3:11:43 PM

Power consumption exceeds normal range


ProVac-Max Pump Unit 2 #1

May 25, 2025 3:11:35

Critical vacuum loss detected

Gateway Chamber

Map





COCKPIT

- Home
- Groups
- Alarms
- Data explorer
- Reports
- My Dashboard
- MyOwnReport
- Report
- SAP Test Report
- Configuration



powered by Cumulocity

# My Dashboard

Reports

+ Add

Appli

Adm

Dis

Data

LAB



SL

Dashboard settings



© OpenStreetMap

## Add widget

Select widget

Configuration

Appearance

Search...



ALARM LIST

AUTO REFRESH

Threshold exceeded

No data received from device within the required time interval

Alarm list

APPLICATIONS

Administration

Apama-Dominika

Apama-hello-world

Device management

Applications

ASSET PROPERTIES

ID: 3341845

Name: MQTT Device WIDGETS1

Type: cdy\_MQTTDevice

Edit

Asset properties

ASSET TABLE

LAST UPDATED	OWNER	ACTIVE ALARMS STATUS
17/01/2020, 15:06:31	device_WIDGETS1	1

Asset table



Data points graph

DATA POINTS LIST

LABEL	TARGET	ASSET
Operating Temp °C	30	@Cumulocity Edge Monitor
Humidity %		@Cumulocity Edge Monitor
Demoboard Power W		@Cumulocity Edge Monitor
Voltage V		@Cumulocity Edge Monitor
Demoboard Energy		@Cumulocity Edge Monitor

Data points list

DATA POINTS TABLE

AUTO REFRESH

16 May 2024 17:22:27	CDY_ACCELERATION - ACCELERATION	0.86671
16 May 2024 17:22:28	CDY_ACCELERATION - ACCELERATION	0.90103
16 May 2024 17:22:28	CDY_ACCELERATION - ACCELERATION	0.90484
16 May 2024 17:22:28	CDY_ACCELERATION - ACCELERATION	

Data points table

EVENT LIST

From: [calendar icon] Realtime [refresh icon]

To: [calendar icon]


No events to display.

Load more

Event list

Cancel

Save

 COCKPIT

Home

Groups

Alarms

Data explorer

Reports

My Dashboard

MyOwnReport

Report

SAP Test Report

Configuration

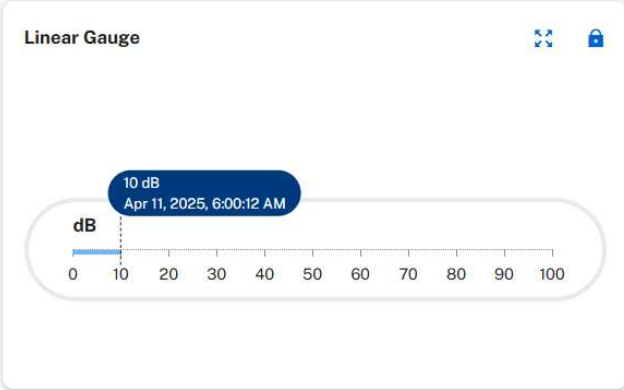
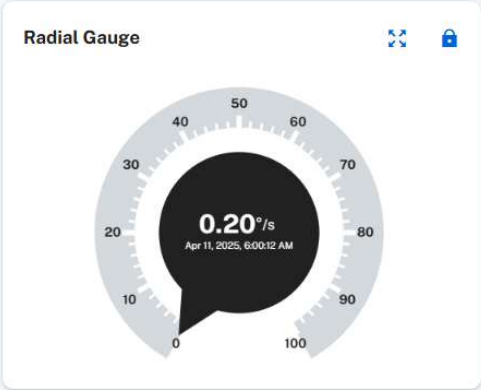
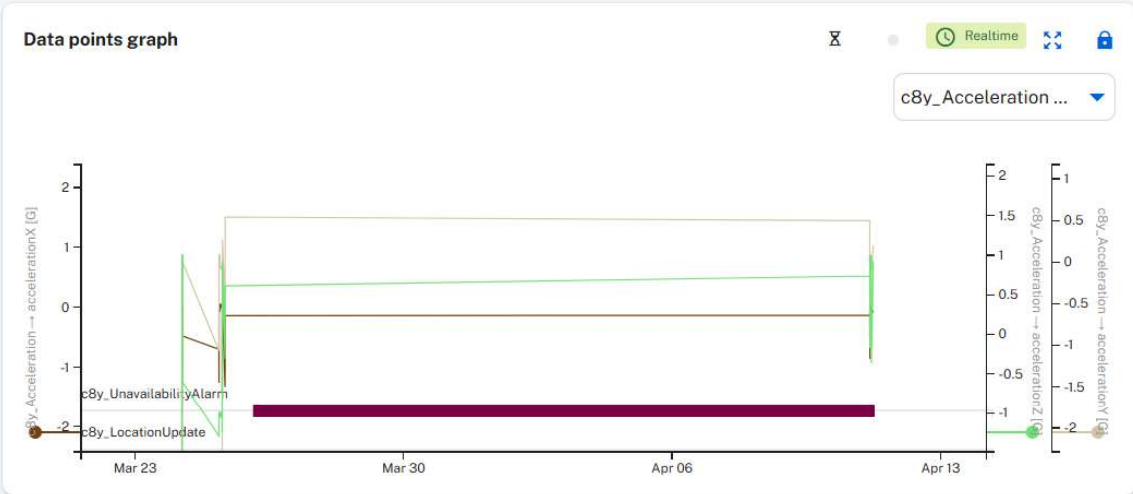
Report

Reports

Edit widgets

Custom  
02/02/2025 — 05/21/2025

Dashboard settings



Alarm list

AUTO REFRESH 28

May 21, 2025 9:17:44 AM

Controller fault detected

Pump Controller #1

May 21, 2025 9:17:42 AM

Critical vacuum loss detected

Gateway Chamber

May 21, 2025 9:17:08 AM

Vacuum level stabilized at target

Air Sensor 1 -Vacuum Chamber #1

May 21, 2025 9:16:37 AM

Device with serial 'drive2' already existing

Vacuum Chamber Pump

May 21, 2025 9:16:37 AM

Device with serial 'ac\_drive' already existing

Vacuum Chamber Pump

May 21, 2025 9:16:37 AM

Device with serial 'pump' already existing

Vacuum Chamber Pump

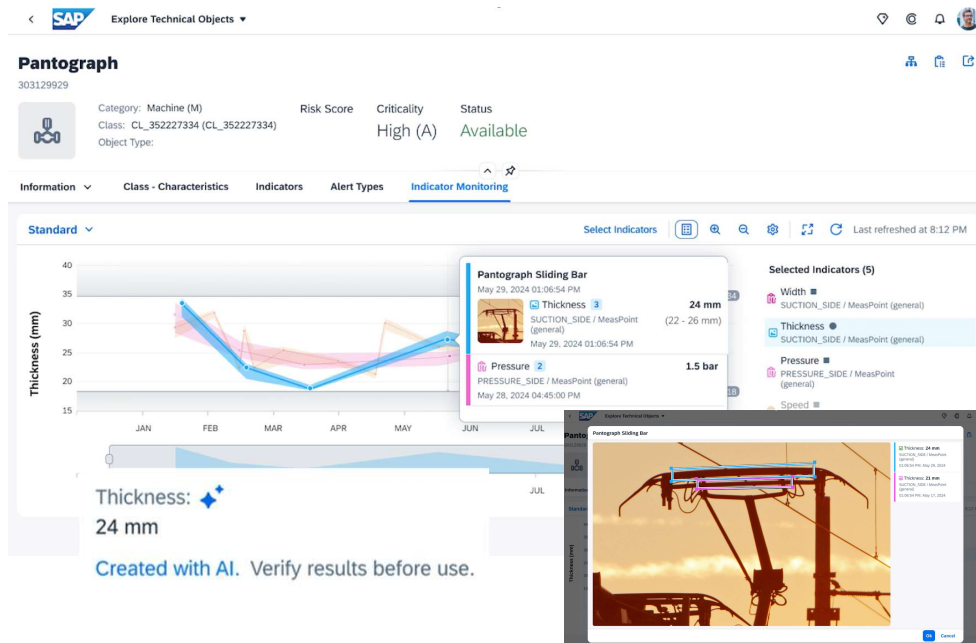
May 21, 2025 9:16:37 AM

Device with serial 'pid\_controller' already existing

Vacuum Chamber Pump

# Visual Asset Health Monitoring

Increased asset reliability via streamlined, AI-assisted asset health monitoring



## CHALLENGE

Direct and visual observation of equipment to identify signs of wear and tear, physical damage, leaks, corrosion, or other visible anomalies, while critical, are very manual and labor-intensive in nature, introducing potential for errors, inefficiencies, and higher operational costs..

## SOLUTION

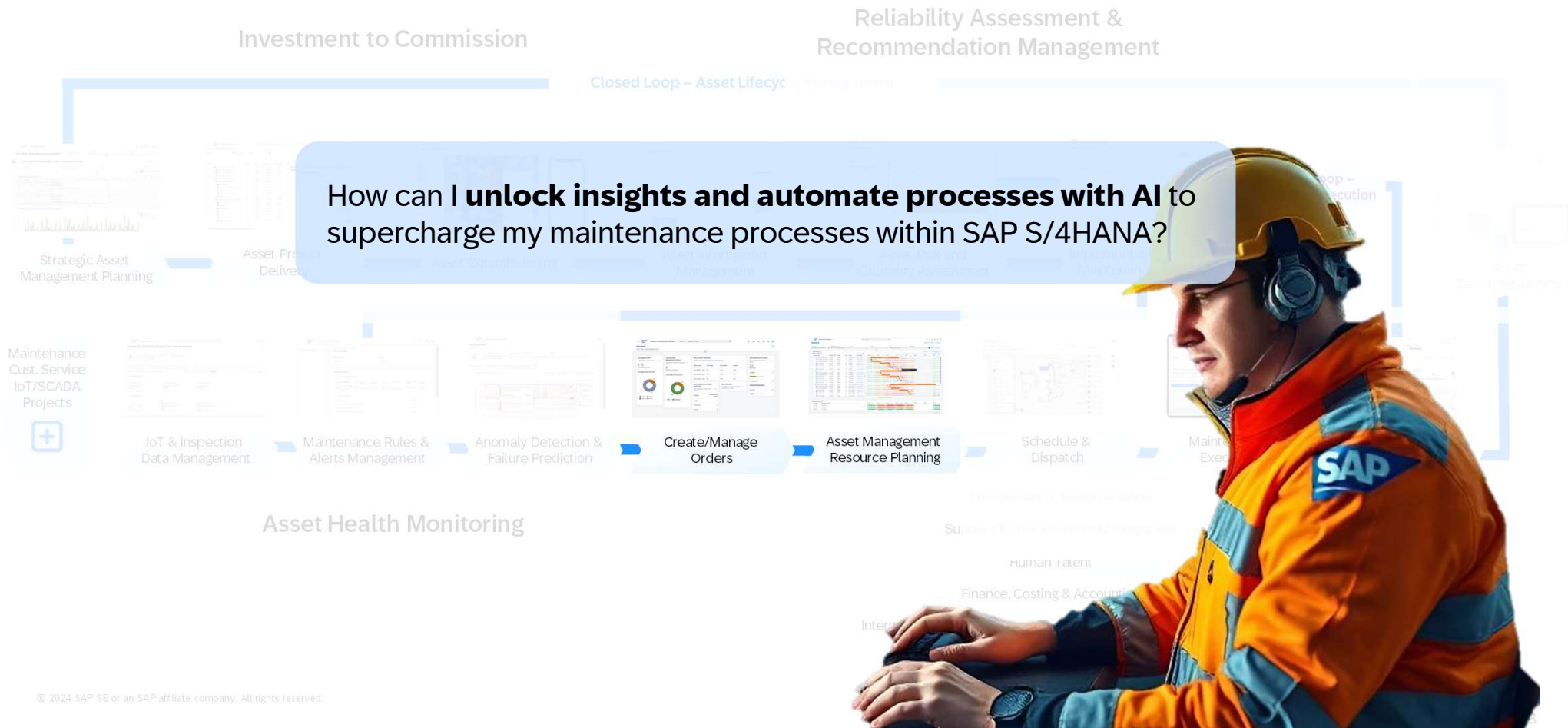
### SAP Asset Performance Management

- Collect images from visual inspection of assets as image indicators.
- Integrating AI\* into inspection processes reduces human errors by assisting workers or automating the inspection process
- Define rules based on image indicator values and predictions to automatically create alerts and maintenance notifications

## OUTCOMES

- Improved efficiency: AI-assisted visual inspection can be done remotely (and centrally) at a much faster pace and detecting potential issues even earlier.
- Increased accuracy and consistency: Your reliability engineers have full control of the process while AI performs the analysis accurately and minimizing variability.
- Reduced costs. The potential savings can be very rewarding as reduction in labor costs, downtime costs, and safety incident costs can add up significantly

## SAP S/4HANA Asset Management





Cloud ERP



Cloud ERP  
Private

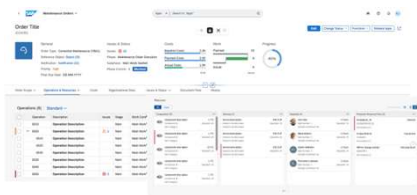


Roadmap

## Several new SAP Fiori apps to manage maintenance processes

Available Now

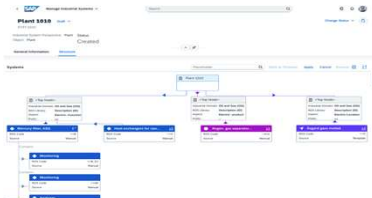
### Maintenance Order



Simplified planning, improved visibility, and easier scope definition for maintenance orders

Roadmap

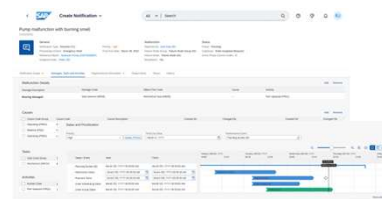
### Industrial System



Definition of system object to structure and model complex systems.

Roadmap

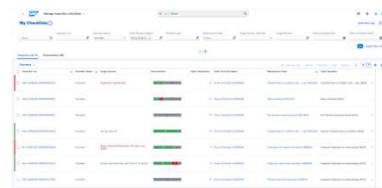
### Maintenance Notification



Improved handling of maintenance notification with new SAP Fiori app

Available Now

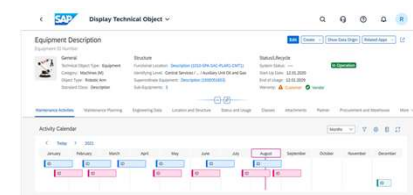
### Manage Inspection Checklists



Improved handling of maintenance checklists with a new SAP Fiori app

Roadmap

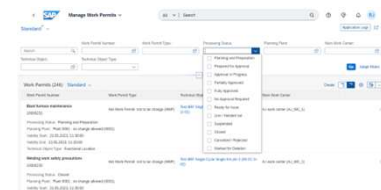
### Technical Object



SAP Fiori app for managing technical objects for equipment and functional location

Roadmap

### Work Permits



Support for safety certificates as part of the permit-to-work process



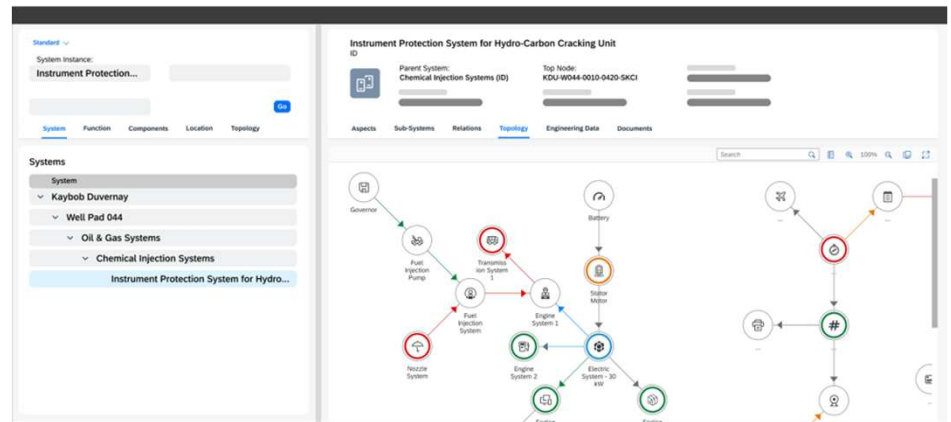
# Improved Asset Master Data handling

**New Master Data Object for Industrial Systems**, to model complex assets by using additional aspects, such as a functional aspect, next to a physical representation of the assets. Based on Industry Standards ISO81346.

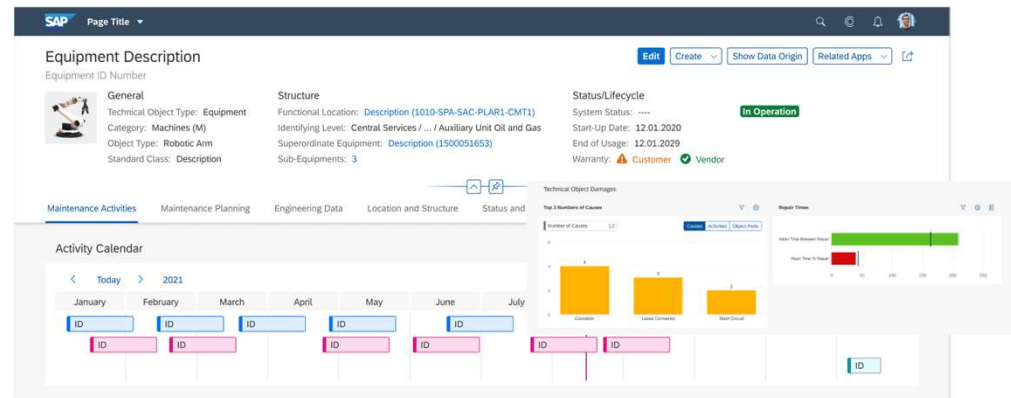
**New Fiori Apps for Equipment and Functional Location** to manage Equipment and Functional location master data with a standardized asset lifecycle status and a tight integration to SAP Asset Performance Management

**Improved Reference Structure Capabilities**, supporting reference equipment as a master objects, tightly integration with the product structure of SAP Cloud PLM and Integration into to the build “reference structure” (hierarchy) within SAP S/4HANA

## Structure View of Industrial Systems



## New Manage Equipment App





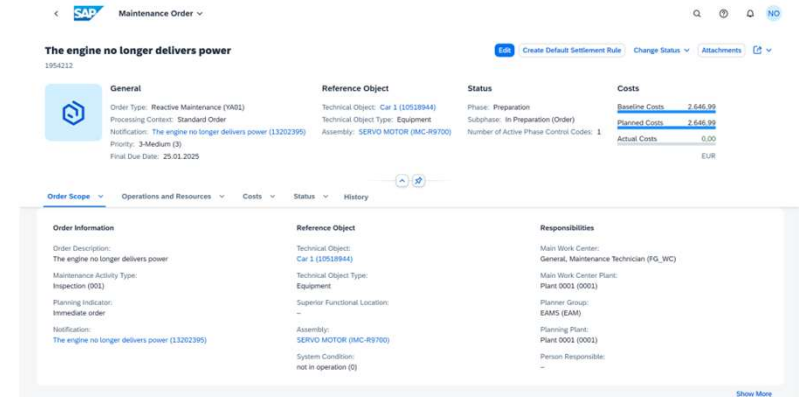
## Improved Maintenance Planning

**New Manage Maintenance Order Fiori App**, supports maintenance planners to easier define and view scope of the work order, and provides and improved visibility of costs and status of the order.

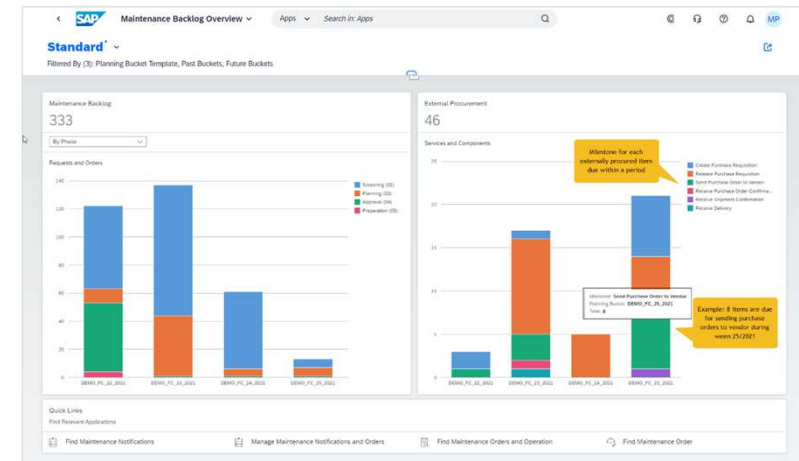
**Improvements for Reference- and Event-Based Planning Buckets.** Close collaboration with DSAG to improve the planning bucket capabilities. For instance with a new lifecycle management and additional scope definitions

**Leverage AI capabilities to facilitate the daily work of the Maintenance Planner**, for example, when creating orders or planning maintenance

### Manage Maintenance Order App



### Backlog overview



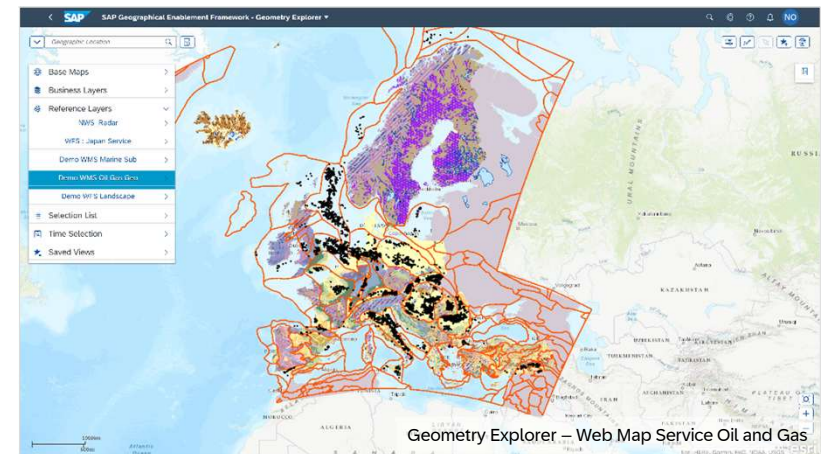
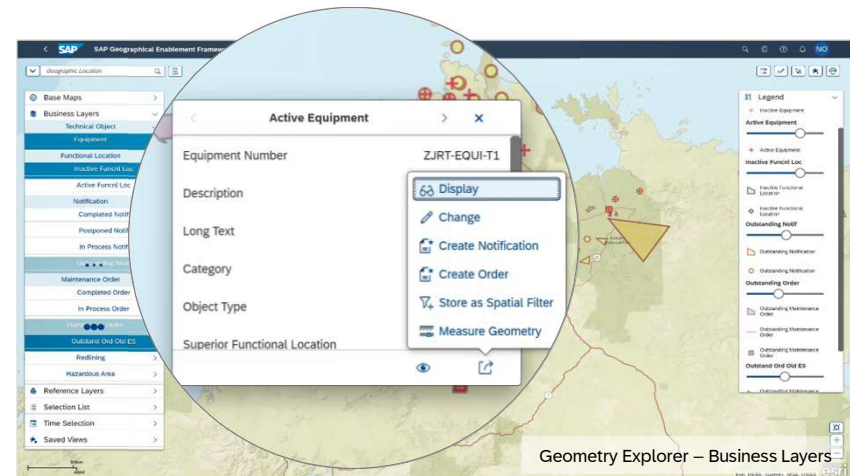
# Spatial Asset Management

Creating geo-objects for notifications and orders based on phases and subphases. **Visualize the notifications and order on the map based on the new phase model.**

Ensure easier adoption of S4HANA Spatial Asset Management. Enhancement of OData APIs within Enterprise Asset Management (EAM) with **linear field data** and Delivery of a new OData API for Linear Reference Pattern.

**Fiori Apps with linear data.** Incorporating linear fields into all Fiori apps to support the phase based maintenance for linear assets with a unified user interface that enables seamless management of both point and linear assets.

Inspection of Linear Assets. Automate the generation of object lists and segment-specific checklists for linear assets based on start and end points, with support for recording results per segment.



# Permit to Work

Extensibility enablement in the permit-to-work process:  
Custom fields enablement in work permits, work permit templates, safety certificates, and safety certificate templates

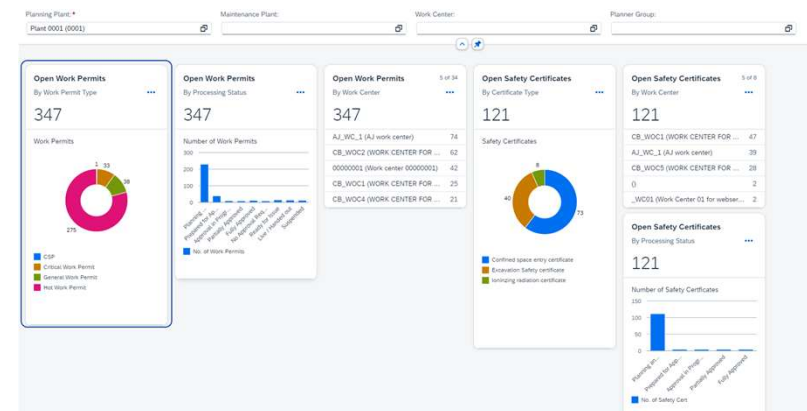
Display of associated work permits in the Perform Maintenance Jobs app.

Assess and improve the Work Clearance Management Solution by enhancing the essential functionality in Isolation Management.

New SAP Fiori app enabling industrial hygienists to prepare isolation lockout tagout (LOTO) templates for reuse in requesting new certificates

**New SAP Fiori app** enabling the operation team to **create isolation certificates** independently or with reference to a work permit

## Permit to Work Overview for Plant Manager



## Manage Work Permits

SAP Work Permits

General Safety Procedure

12000128

Planning Plant: Plant 0001 (0001)  
Work Permit Type: General Work Permit (GWP)  
Processing Status: Cancelled / Rejected  
Issued To: -

General Information | Object List | **Safety Requirements** | Assigned Orders | Partners | Approvals | Issue History | Comments | Status | Attachments

**Safety Precautions (4) Standard**

Description	Category	Comments	Set Implementation Status	Implementation Status	Implemented On	Implemented By
De-energize underground services	Environment Conditions		No	Not Implemented		
Flushing and Draining of hazardous substances	Environment Conditions		No	Not Implemented		
Regular Gas Recording	Environment Conditions		No	Not Applicable		
Safe temperature for entry	Environment Conditions		No	Not Applicable		

**Personal Protective Equipment (4) Standard**

Description	Category
Chemical splash goggles	Eye and Face Protection
Face shields	Eye and Face Protection
General safety glasses	Eye and Face Protection

# Best Practice Process Improvements

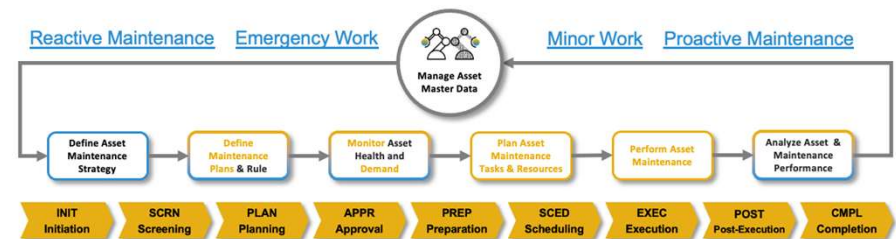
**Enhanced configuration capabilities for phase-based maintenance**, offer the possibility to adapt the standard process with customer-specific settings or to extend it using standard interfaces

Determine the life cycle phases of maintenance requests and maintenance orders by the context of the maintenance task. Allow customers to specify different variants of the lifecycle.

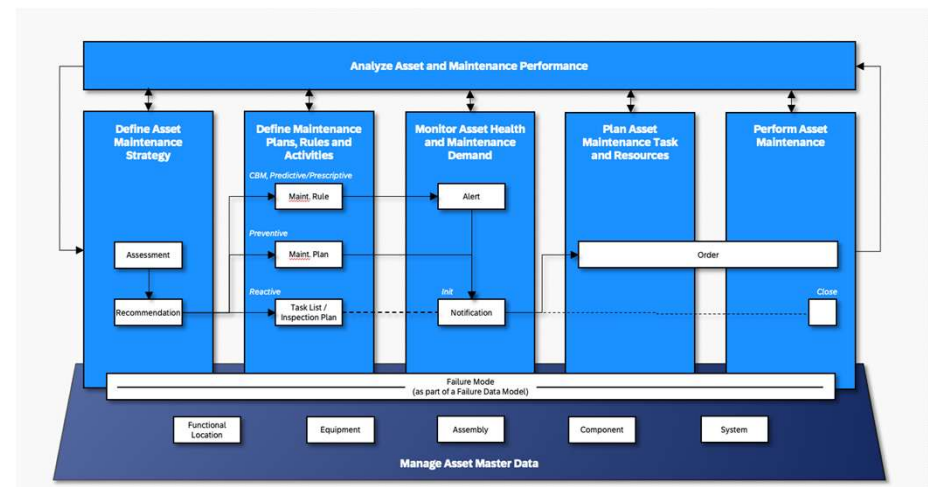
From Maintenance Strategy to Execution  
End to end failure data handling and recommendation implementation with Asset Performance Management

Development of functional enhancement and process improvements based on customer feedback

## Best Practice Processes / Phase-based maintenance



## From Maintenance Strategy to Execution



# AI Services for SAP S/4HANA Asset Management

- **Business Data Cloud\***  
New data products for Asset Management objects for Equipment, Functional Location, Measuring Point/Document, Task List, Maintenance Plan, Notification, Order, Order Confirmation and Configuration Data
- **Intelligent Maintenance Order Recommendation**  
Optimize operations through proactive maintenance and real-time insights into equipment performance based on past jobs.
- **Joule – Maintenance Technician\***  
Enable technicians to converse with the application and obtain all the required details to perform the job
- **Joule – Maintenance Planning\***  
Create Maintenance Plans and Maintenance Event Backlogs (Agentic AI)

## Intelligent Maintenance Order Recommendation

**Available Now 2023 FPS2**

## Joule – A day in the life of a Maintenance Technician



Roadmap



Demo



Cloud ERP Private



# Maintenance Order Recommendation

**Select an Order Proposal**

Created with SAP Business AI

**Order 2039845**  
Best Match Proposal

Order: Repair Gearbox

Technical Object: Gear Box CWS01 (21010342)

Operations: 5

Matching Score: 9.5 / 10

**9.5 / 10 Points**

High 8.0 - 10 Medium 5.0 - 8.0 Low 0.0 - 5.0

**Indicators**

Object Match: Same Construction Type

Logic Match: Damage Code Comparison

**Order 2039824**  
Alternative Proposal

Order: Check for leaks and wear on seals (2039810)

Technical Object: Gear Box CWS01 (21010342)

Operations: 4

Matching Score: 7.9 / 10

**Create Orders**

Maintenance Order Type: \* Reactive Maintenance (YA01)

☐ Create Multiple Orders

☒ Create Single Order with Header Notification

Header Notification: Gearbox broken (1000711)

Copy from Order: [ ] [Get Proposals](#)

Selection: [ ]

[Create](#) [Cancel](#)

- 1 Faster maintenance planning
- 2 Enable easier interaction with the system
- 3 Faster time to resolution

40% increase in maintenance planner productivity

5% increase in first-time fix rates



# Utilising AI to streamline the creation of maintenance orders

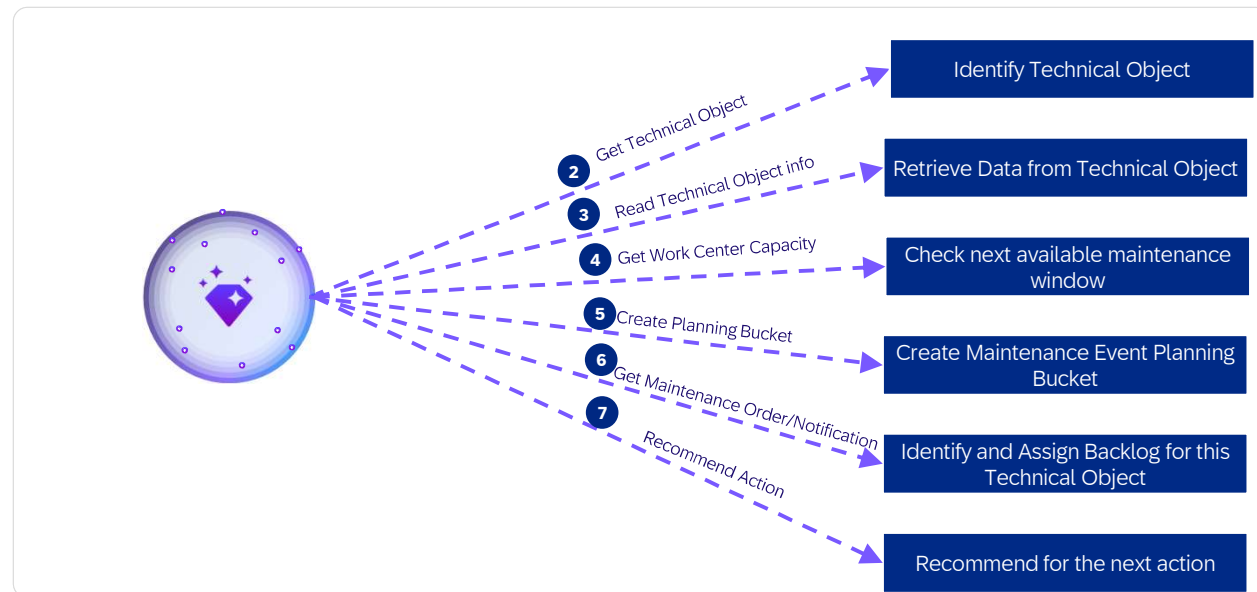




# Agentic AI

“As a maintenance planner, I’m responsible for organizing and scheduling repairs and inspections for equipment in our organization.

I need a way to efficiently coordinate technicians, spare parts, and tools, ensuring maintenance is performed safely, reliably, and without causing unnecessary downtime.”





# Intelligent Maintenance Event Backlog Planning

**Joule** Today 8:00 AM

Can you create me on for my Cooling Tower#

**LM - Large Maintenance**

**Details**

Involved Technical Objects:  
1010-CWS-CTW-CTW02

Proposed Start Date/Time:  
06.06.2025 06:00 a.m.

Proposed End Date/Time:  
30.06.2025, 05:00 p.m.

Outstanding Maintenance Notifications to be added:  
56

Outstanding Orders to be added:  
120

Estimated Asset Downtime Time:  
355 H

Estimated Costs:  
78.600 USD

**Upcoming Proactive Maintenance Activities**

**Details**

Outstanding Maintenance Plan Calls:  
12

Additional Estimated Work:  
89 H

Additional Estimated Costs:  
9280 USD

**Critical resource required**

**Details**

Tools used in last event:  
no specific tools

Non-Stock Material procured in last event:  
no Non-Stock Material

Services procured in the last event:  
10030001 - Munich Specialists" have supplied, with a total Costs of 4.500 USD

Here are some actions I would recommend:

1. Check for Upcoming Maintenance Plan Calls
2. Check for Tools/Non-Stock Materials/Services used in a similar Event

Please execute the recommended steps

Check for Upcoming Maintenance Plan Calls...

Message Joule...

Here is the information

Upcoming Proactive Maintenance Activities

Details

Outstanding Maintenance Plan Calls: 12

Additional Estimated Work: 89 H

Additional Estimated Costs: 9280 USD

Here are some actions I would recommend:

1. Prepone Proactive Maintenance Activities to include them into the event
2. Create Purchase Requisition for the supplier
3. Reschedule the Event if needed

Please execute the recommended steps

Create Purchase Requisition for the supplier...

Here are some actions I would recommend:

1. Prepone Proactive Maintenance Activities to include them into the event
2. Create Purchase Requisition for the supplier
3. Reschedule the Event if needed

Please execute the recommended steps

Here is the information

Updated Event Information

**Details**

Added Maintenance Orders:  
12

Purchase Requisition created:  
10000087

New Start Date/Time:  
06.06.2025 06:00 a.m.

New End Date/Time:  
08.07.2025, 05:00 p.m.

# Maintenance Planner Agent

## Roadmap



Cloud ERP  
Private



Roadmap Q4  
2025

- 1 Faster maintenance planning
- 2 Enable easier interaction with the system
- 3 Increased compliance

↑ **40%**  
increase in  
maintenance  
planner  
productivity

↑ **1%**  
reduction in  
unplanned  
downtime


## SAP Field Service Management



## Long term strategic topics




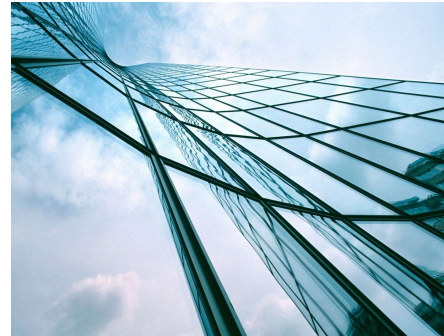
### AI driven Field Service

Boost user efficiency through AI insights, recommended actions and task automation  
Schedule and optimize service orders autonomously with a Dispatching Agent   
Root cause analysis and suggested actions  
Knowledge harvesting and sharing



### Self-Organized Technicians

Enable technician self planning   
pick a job/subset  
pick a colleague  
Planning from anywhere (e.g. mobile/touch)



### Outcome Based Field Service

Preventive planning  
IoT connected assets  
Exchange with customers  
Equipment up / downtime windows



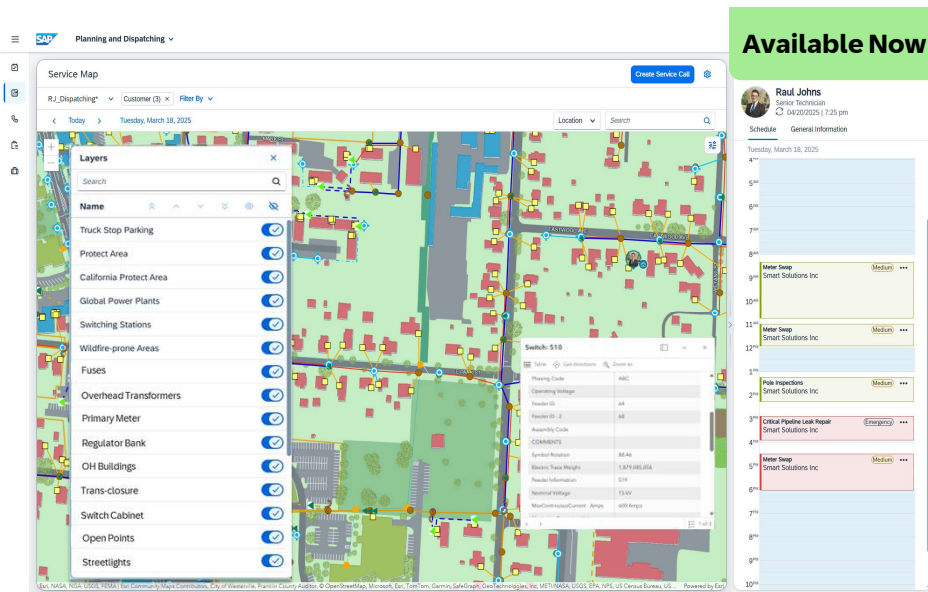
### Modern Integrated & Extensible Foundation

Continuous evolution and modernization with focus on micro-services  
Comprehensive out of the box integration with SAP S/4HANA, SAP Sales and Service Cloud v2, SAP Business Network, SAP Asset Performance Management and IOT Insights

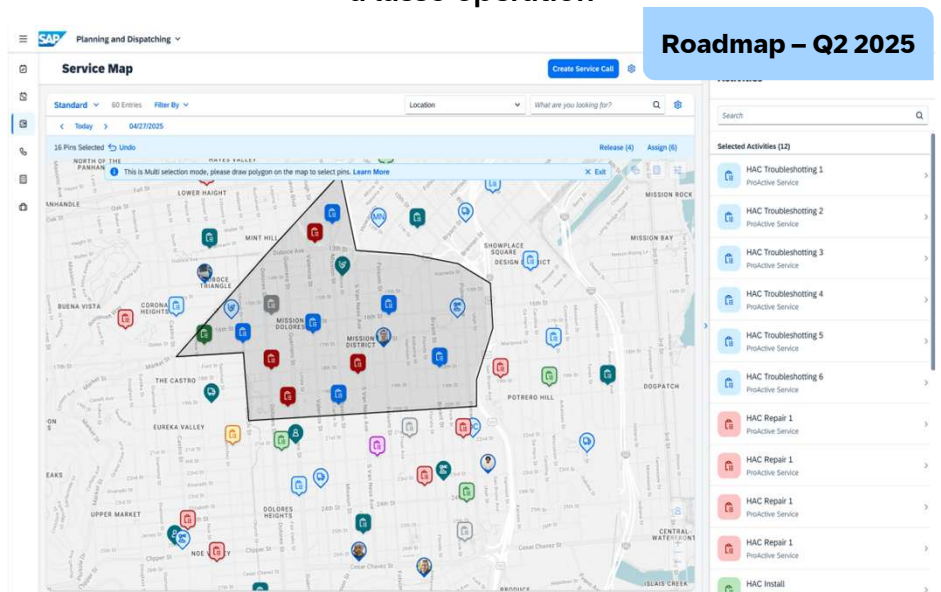


# Service Map Enhancements

Show/hide layers with ArcGIS Online



Selection of multiple work orders through a lasso operation



# Recurring Reservations

The screenshot displays the SAP Field Service Management 'Dispatching Board' interface. A 'Create Booking' modal is open, allowing users to set up recurring reservations. The modal includes fields for Description, From/To dates and times, and options for Exclusive, Whole Day, and Recurring bookings. The 'Recurring' option is selected, and the frequency is set to 'Weekly'.

**Create Booking Modal Details:**

- Description:** Write your message here.
- From:** 09/20/2024 07:00 AM
- To:** 09/20/2024 08:00 AM
- Options:** ☐ Exclusive, ☐ Whole Day, ☒ Recurring
- Frequency:** ☐ Daily, ☒ Weekly, ☐ Monthly, ☐ Yearly
- Every:** 1 Weeks
- On Week Days:** Mon, Tue, Wed, Thu, Fri, Sat, Sun

**Dispatching Board Details:**

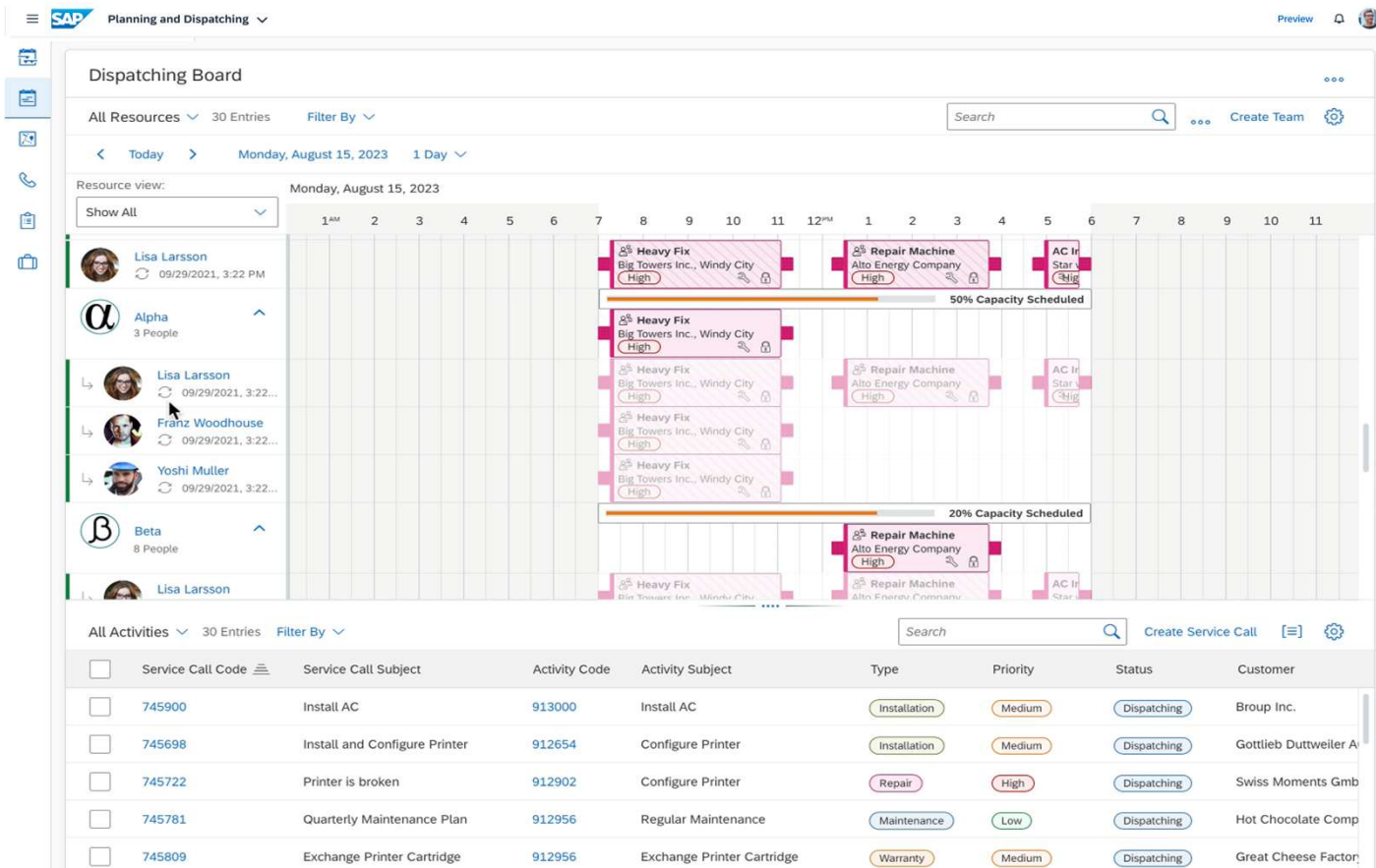
- Standard** 60 Entries Filter By
- Today** 09/20/2024
- Mon, 09/20/2024 (Week 39)**
- Staff List:** John Miller, Leo Clarke, Max Norman, Donna Moore, David Claus, Matteo Napolitano
- Activity Table:**

Service Call Code	Activity Code	Activity Subject	Type
865373	123	Exchange Expendable Parts	Mainten
870654	334	Inspection	Repair
762207	789	Break Fix	Install
890032	202	Standard Repair Service	Repair
889121	406	Machine Cleaning	Prevent
623345	506	Exchange Expendable Parts	Mainten
- Activity Due Date Table:**

Activity Due Date	Customer
09/24/2024 11:59 PM	Moonbucks
09/22/2024 11:59 PM	Coffee Stars
09/24/2024 11:59 PM	Moonbucks
09/24/2024 11:59 PM	McCoffee
09/22/2024 11:59 PM	Tea Fellows
09/29/2024 11:59 PM	Coffee Stars



# Visualize assignment time frames of crew members



- 1 Enhanced crew planning
- 2 More granular-level controls on crew
- 3 Greater flexibility on short-term crews

# Agentic AI workflows for the dispatcher with Joule

Roadmap



Roadmap



Demo

SAP Planning and Dispatching

## Dispatching Board

Standard 26 Entries Filter By

< Today > 01/20/2025 1 Week

Mon, 01/20/2025 (Week 3) Tue, 01/21/2025 Wed, 01/22/2025 Thu, 01/23/2025 Fri, 01/24/2025 Sat, 01/25/2025 Sun, 01/26/2025

John Miller 01/19/2025 | 5:25 PM

Leo Clarke 01/19/2025 | 5:25 AM

Max Norman 01/19/2025 | 6:00 PM

Donna Moore 01/19/2025 | 5:10 PM

David Claus 01/19/2025 | 6:07 AM

Matteo Napolitano

Service Call Code	Activity Code	Activity Subject	Type	Priority	Status	Activity Due
409	566	Exchange Expendable Parts	Maintenance	High	Ready to Plan	01/31/2025 1
520	334	Inspection Machine EX110	Repair	Low	Ready to Plan	01/26/2025 1
478	433	Break Fix	Installation	Medium	Ready to Plan	01/26/2025 1
466	400	Standard Repair Service	Repair	Low	Ready to Plan	01/26/2025 1
500	406	Machine Cleaning	Prevention	Low	Ready to Plan	01/26/2025 1
499	506	Exchange Expendable Parts	Maintenance	High	Ready to Plan	01/26/2025 1

Entries per page: 20

1 2 3 >

Joule

Today 8:00 AM

Schedule activities that are due this week.

Here is the schedule simulation you requested.

Smart Scheduling Simulation 287  
01/20/2025 – 01/26/2025

Scheduling Policy:  
Distance and Skills (Default)

Valid Activities (Scheduled / Not Scheduled):  
47 / 3

Invalid Activities:  
1

View Details Review Report Accept Discard

Message Joule...


Joule uses AI. Verify results.

- 1 Faster job scheduling/dispatch
- 2 Enable easier interaction with the system
- 3 Boosted productivity & less errors

↑ 50% increase in dispatcher productivity

↓ 8% reduction in dispatcher errors

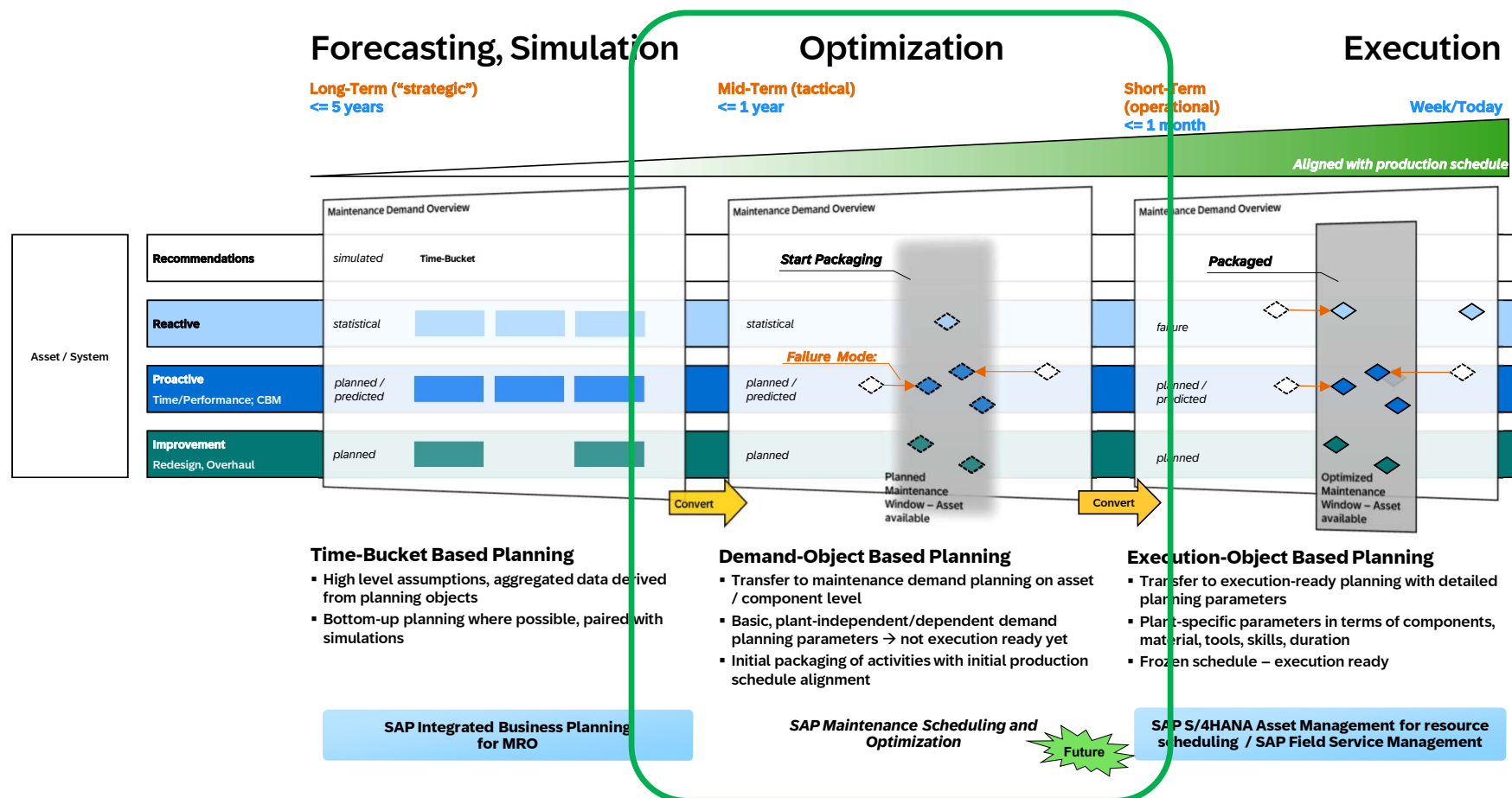




# **SAP Maintenance Scheduling & Optimisation (MSO) - Teaser**

# Integrated Maintenance Scheduling and Optimization

Addressing the tactical scheduling horizon for an end-to-end process coverage



# MSO Industry example – Key User Roles & Journey

**Asset Responsible** - a planner and scheduler responsible for all or a subset of (production) assets with the main goal of minimal downtimes, maximum availability as well as cost-effective, just-in-time maintenance of all necessary tasks.

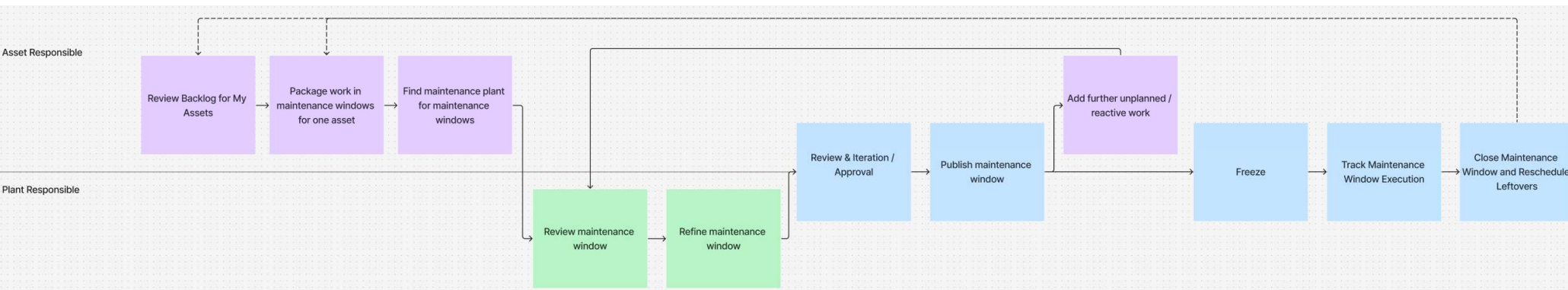
## Lab Preview

### Transportation



Moving Assets

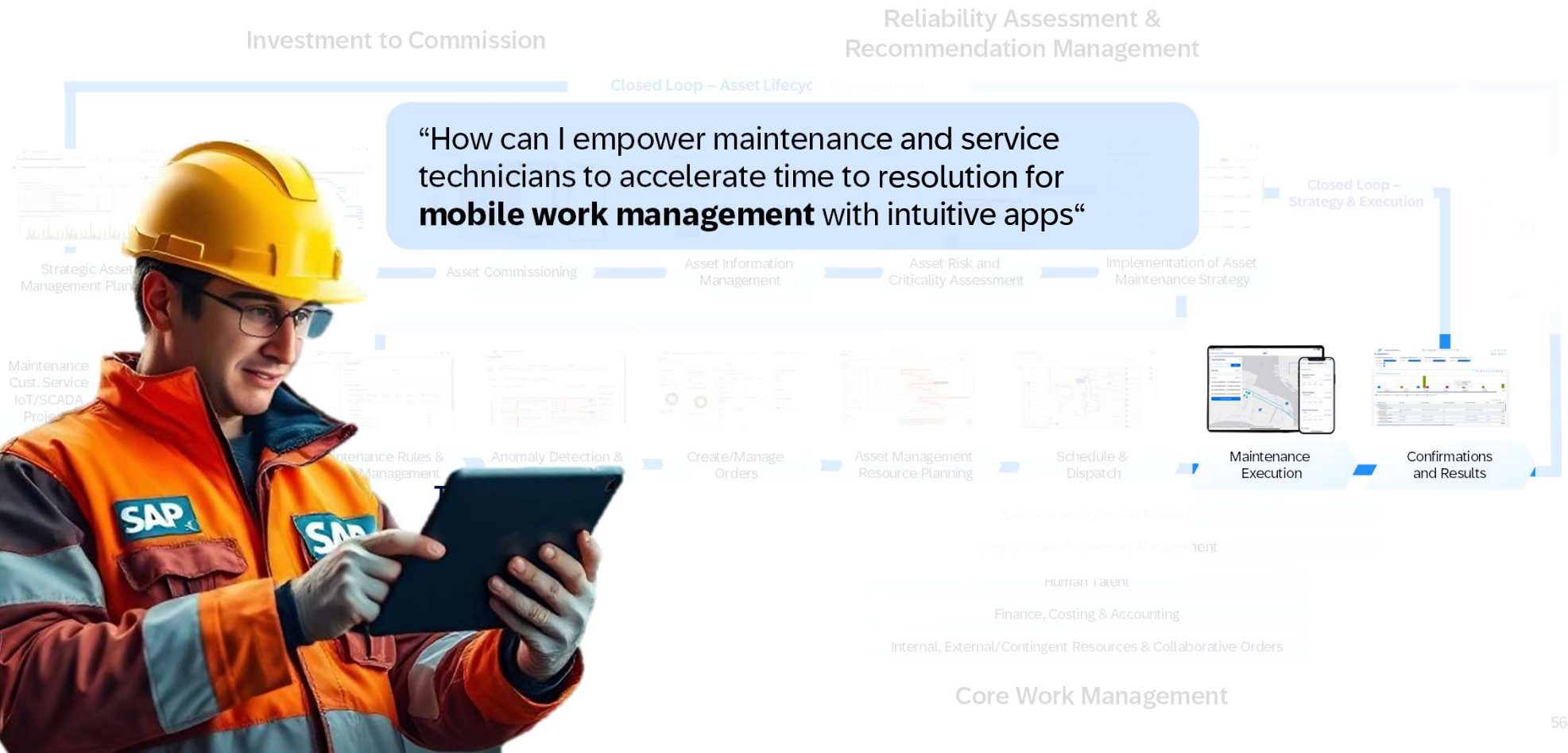
Static Workforce,  
Infrastructure / Tools



**Plant Responsible** - a planner and scheduler responsible for one or multiple maintenance workshops/sites with the goal of minimal "bench-time", balanced capacity for technicians, infrastructure and tools, just-in-time availability of required materials and enough "reserve-capacity" for unplanned emergency work.



## SAP Service and Asset Manager





## Key Strategic Investment Topics



### AI Driven Maintenance & Field Service

AI Job completion <sup>2505</sup>

Joule Mobile Agent <sup>2510</sup>

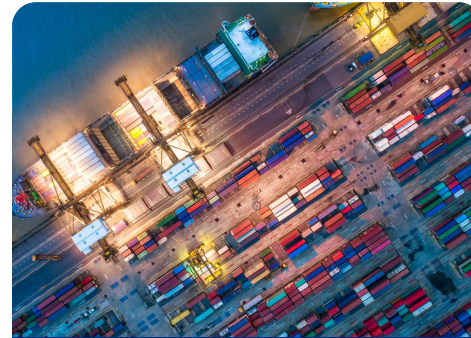
Summary pages <sup>2510/2605</sup>



### Ongoing Persona Centric App Enhancements

Workflow Enhancements <sup>2505</sup>

Filter Enhancements <sup>2505</sup>



### Strong Interlock with SAP DSC Portfolio

FSM Crowd Service Support <sup>2505</sup>

New Logistics personas <sup>2505</sup>



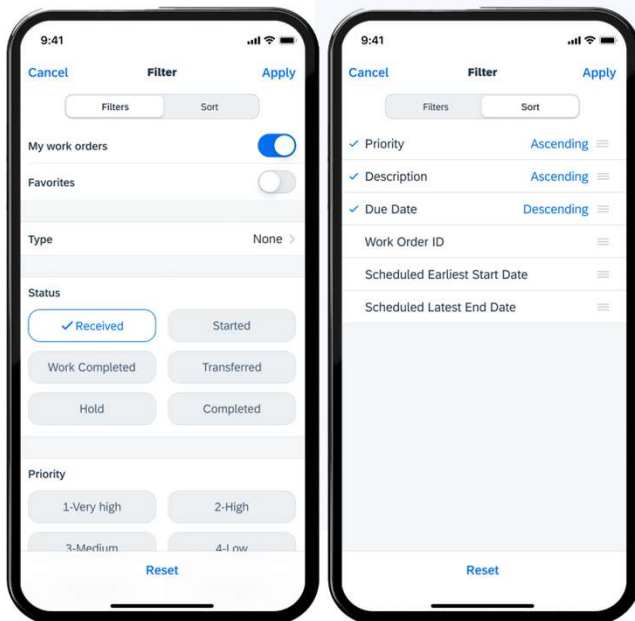
### Modern Onboarding & Upgrade Foundation

Onboarding tool <sup>2505</sup>

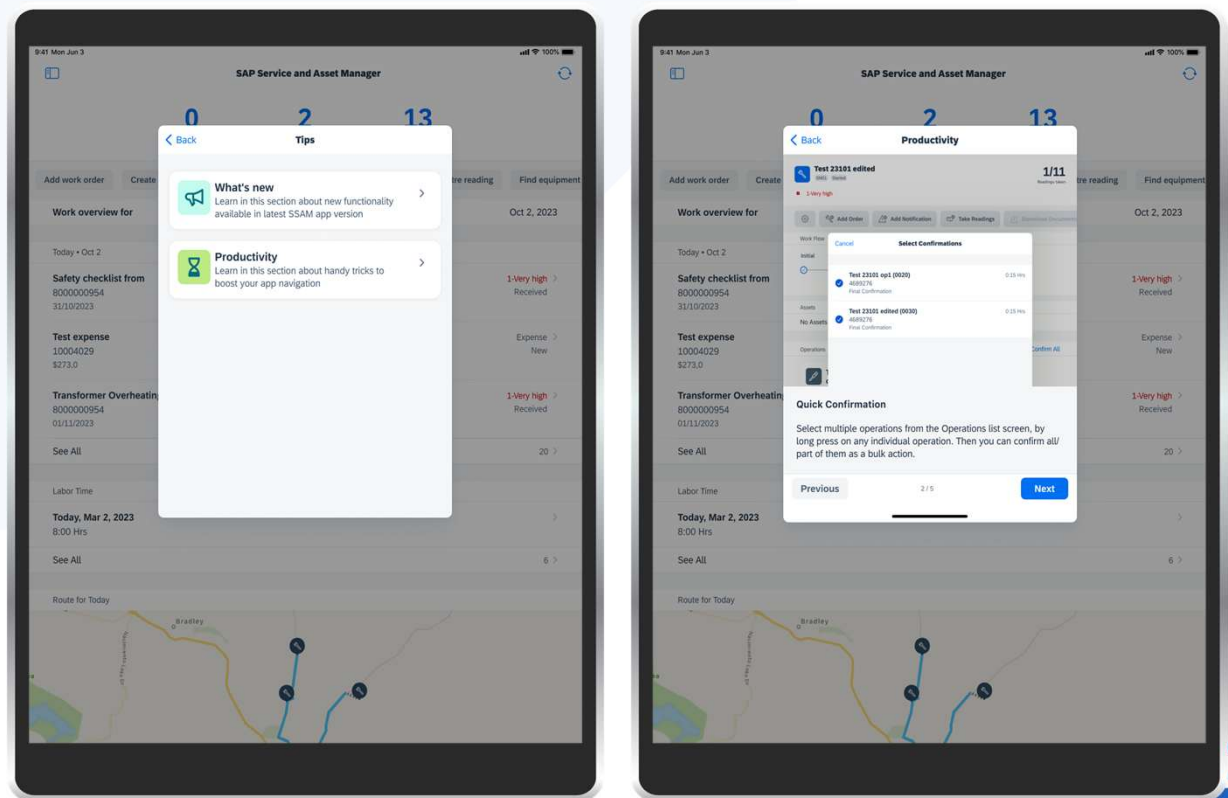
Upgrade tool <sup>2510</sup>

# Ongoing Persona Centric App Enhancements

## Support multiple sort in filters



## Introducing in app onboarding tutorials



This is the current state of planning and may be changed by SAP at any time without notice.



# AI Enabled Services in SAP Service and Asset Manager

AI assisted job completion & smart notification creation by voice

Cancel Done

### Add Notification

Complete using AI

Create notification about changing the bearing of the current transformer that is causing for it to overheat. Order the parts if its not available from the warehouse. Make priority High.

Record

Replace bearing in transformer

Type M1 Major Maintenance Request >

Equipment Transformer >

Breakdown ☒

Planner Group 001 IH-Planner 001 >

Main Work Center Machine 1 >

Code Group PM01 >

Code 1000 >

Priority **Very High** High Medium Low

Location 4555 Madison St., Chicago IL

AI assisted smart notification creation by camera picture

Cancel Done

### Add Notification

Complete using AI

Use Voice Retake a Picture

Attachments (1)

+ 113024-2-12PM.jpg (100%)

Rust found on pump

Type M01 - Maintenance Request >

Equipment Pump >

Breakdown ☒

Planner Group 001 IH-Planner 001 >

Main Work Center Machine 1 >

Code Group PM01 >

Code None >

Priority Very High **High** Medium Low

Location 4555 Madison St., Chicago IL

Use Current Use Map

AI generated work instruction with Joule

9:41 Mon Jun 3 Work Order 000861 Edit +

### Transformer Overheating

PM01 0/4 Readings taken

Very High

Three-Phase Pad-Mounted Transformer (232435002)  
Substation 18 (88-001-1)

Assignment Travel Work (in progress) Complete

Add Order Add Notification Issue All Parts Download Documents

Assets

Joule

Jim, before you proceed to the transformer, make sure you're wearing your PPE. There is also a wild duck around based on past technicians, so proceed with caution. Don't forget to take parts 123 with you as well as your working permit.

Half year ago, your colleague David, replaced a bearing that might be related to your current issue. There is an attached visual document and manual that you might want to review regarding the transformer. According to the sensor data 10 mins ago, transformer's temperature is about 100F.

Give me additional information

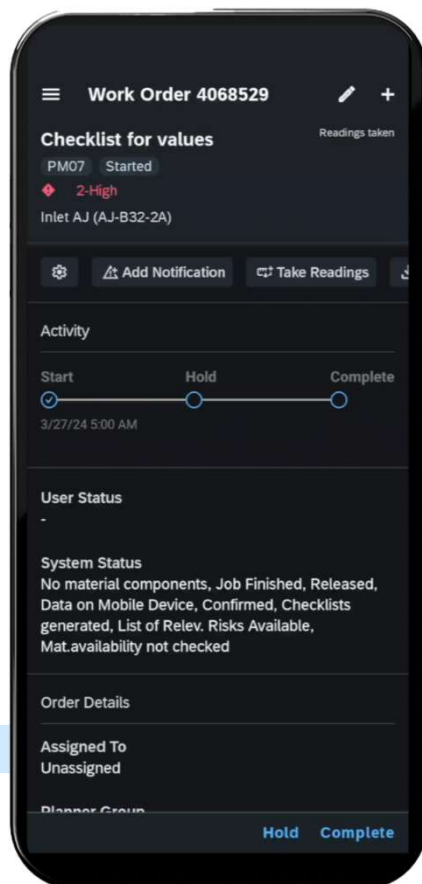
Any attachments relevant to this issue?

Type something

Accept



# AI assisted job completion by voice



Lab Preview

## CHALLENGE

- Technicians are often discouraged from recording job completion information as the process is perceived as time-consuming and complex.
- Important data is omitted during maintenance job documentation.

## SOLUTION

### SAP Business AI


- Convert voice input into text and processes it to produce structured data to save significant time entering necessary information and enhance data quality by ensuring no critical information is lost.
- Improves the user experience by guiding users through the process efficiently.

## OUTCOMES


**Increased Technician Productivity** by reducing number of clicks for data entry on job completion and improved data quality.

**Empower Technicians** with a guided and intuitive job completion process.

# For a deeper dive on Mobility with SAP Dynamic Forms...



## Agenda – Mastering SAP Sessions




### **Deep Dive: Simplifying Execution of Maintenance and Inspections with SAP Dynamic Forms – A Deep Dive with SAP Product Management**

- Thursday, June 5, 2025
- 1:55 PM - 3:30 PM
- Orange Room

Explore how SAP is enabling risk-resilient, sustainable logistics with intelligent inventory and warehouse management. From mobility to AI-driven automation, discover the tools that support efficient, real-time supply chain operations.

#### Speaker



**Jim Bonczyk**  
Product Manager, SAP  
Dynamic Forms  
SAP

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#### Co-Author

**Simon Miller**  
Solution Advisor, Asset  
Intensive Industries  
SAP



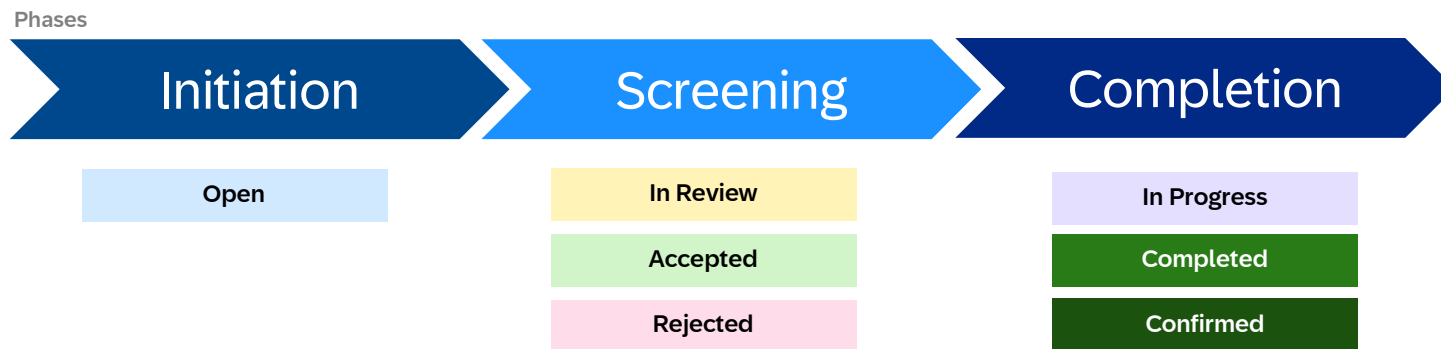
## Business Network Asset Collaboration

“How can I **collaborate with third parties** across a network to share asset information and collaborate on Work Orders? I need the transparency!”



## Collaborative Notifications

In BNAC, we intend to introduce a new concept for statuses to track the life cycle of maintenance notifications. This will significantly enhance our ability to monitor, manage, and facilitate collaboration over the network, ultimately leading to improved transparency and better overall performance.







# AI-assisted asset & maintenance quality collaboration

## Simplify asset information access for maintenance teams

**Regular Pump Maintenance**  
WO.PDMS.3897

Operator: Best Run | Shared With: 1 Partners | External IDs | Status: Published | Order Type: Planned | Start Date: 4/10/2024 6:00:00 AM  
Location: | Priority: **High** | Work Center: RES-0100 | Model ID: 200 Series  
Equipment ID: PUMP 00554 | Functional Location ID: | Model ID: 200 Series

**Summary**

Overall

- Perform comprehensive visual inspections for wear, leaks, unusual noises, and vibrations.
- Ensure proper lubrication as per manufacturer guidelines.
- Check and adjust the alignment of the pump and motor shafts.
- Inspect seals, gaskets, and electrical connections for signs of damage or wear, and ensure fluid levels and quality are maintained.
- Document all findings and corrective actions taken. [View More](#)

Categorization  
[Preventive Maintenance](#)

**Work Order Detail**

Order Type: Planned | Priority: **High**  
Equipment ID: 100002965 | Work Center: RES-0100  
Location ID: | Status:

Plant: 1710

**Long Description:**  
This work order provides a detailed procedure for the routine maintenance of our pump systems. Regular maintenance is essential to ensure optimal performance and lifespan of the pumps. Please follow the instructions meticulously and document any findings or issues.

**Equipment Information Summary:**

- Centrifugal pump offers exceptional fluid handling for the oil and gas industry.
- Equipped with a high-efficiency impeller, it moves fluids reliably using rotational kinetic energy.
- The robust casing maximizes pressure conversion and flow efficiency.
- With optimized suction and discharge ports, it ensures seamless fluid intake and output.
- Ideal for crude oil transport, refined product distribution, and water injection, our pump is durable, low-maintenance, and versatile for critical applications.

**Document Source:**  
[Equipment Detail Page](#)

Message Joule...

## CHALLENGE

As a Master Data specialist, I often struggle with incomplete or inconsistent asset data from OEMs and EPCs, making it hard to maintain quality data for procurement, operations, and maintenance.

## SOLUTION

### SAP Business Network Asset Collaboration

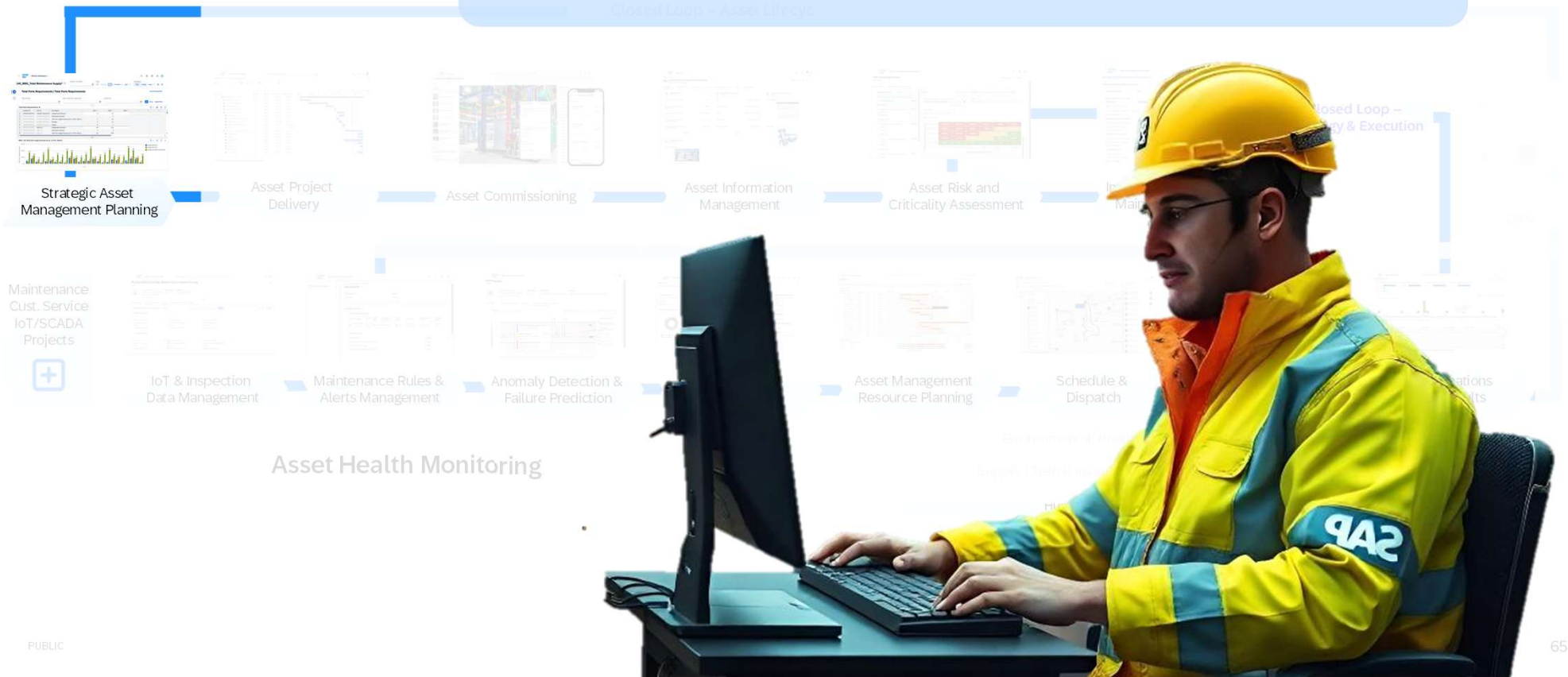
- **Data Completeness & Consistency** – Ensure all mandatory fields are filled, cross-check historical records, and flag missing or conflicting information.
- **Compliance with Standards** – Validate against company policies, industry standards (e.g., ECLASS, ISO 14224), and naming conventions.
- **Automated Suggestions** – Recommend missing data, suggest corrections for common errors, and optimize maintenance schedules.

## OUTCOMES

- Increase content availability, quality, & increase compliance standards.
- Reduce the time to adoption.

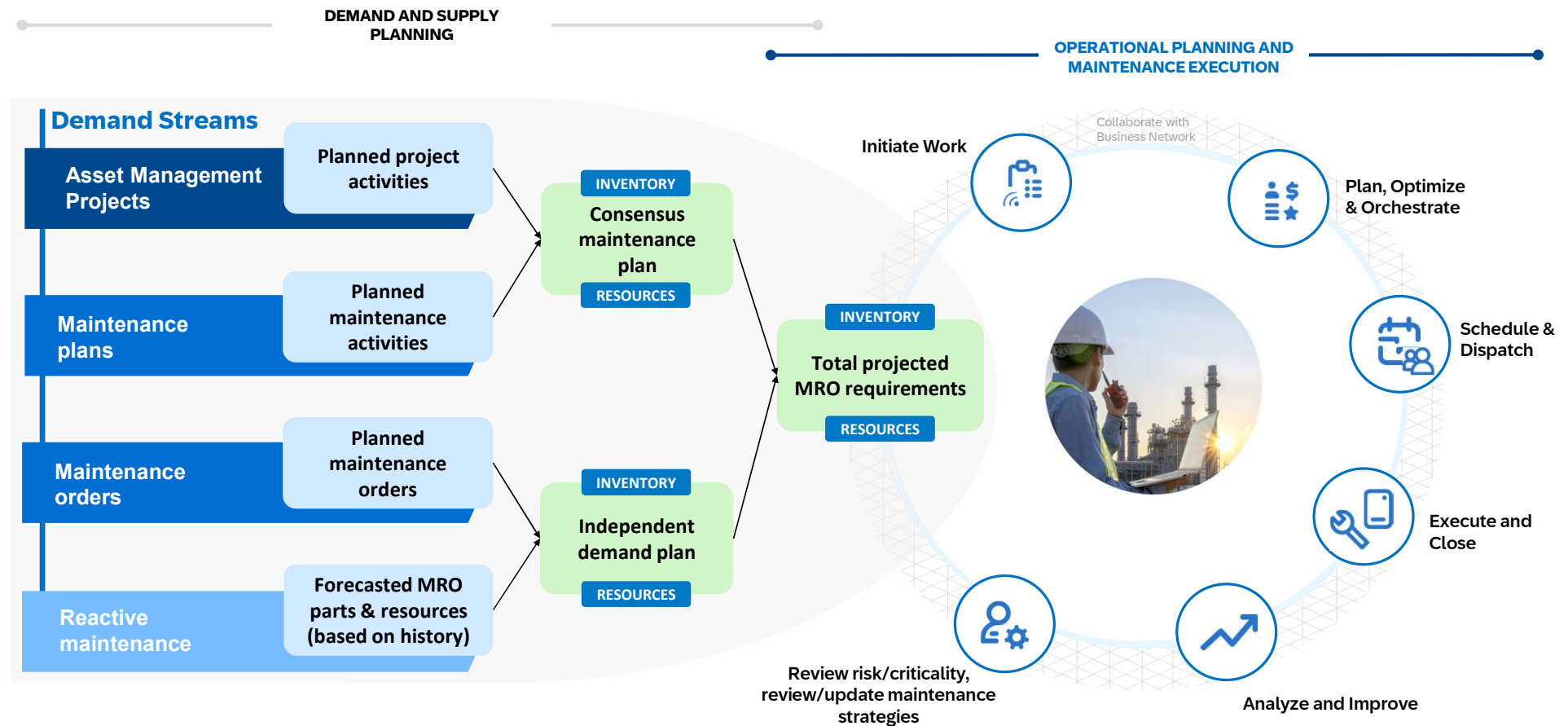
## Integrated Business Planning for MRO

“How can I create a **zero based budget**, and **collaborate** with the supply chain team to optimise inventory levels for my spares?”



## Integrated Business Planning for MRO

Connect **Supply Chain Planning** with **Maintenance Planning and Execution** in a closed-loop integrated platform



Integrated Business Planning for MRO

Find me all my  
Hitachi Excavators

Corrective Maint. Demand Planning -

10 sec. ago

Simulate

Save

Scenarios

Application Jobs

Workspace

Plan

Design

Save As

Versions / Scenarios:

Planning Filter:

Time Periods:

FLoc Hier 3:

FLoc Hier 4:

Equipment ID or Func. Loc. ID:

FLoc Description:

Functional Location ID:

FLoc Hier 1:

FLoc Hier 2:

FLoc Hier 5:

FLoc Hier 6:

Location ID:

Maint. Activity / Spare Part De...

Maint. Activity ID / Spare Part ...

Go

Adapt Filters

Corrective Maint. Budget - Site View

FLoc Hier...

FLoc Hier...

FLoc Hier 3

Key Figures

JUN 2022

JUL

1	Mobile Sites	Hydraulic Excavator	Corrective Maintenance ...	5,90476
2			Corrective Maintenance ...	10,000
3			Total Maintenance Cost f...	5,599,089
4				
5				

Historical Corrective Costs for  
Mobile Maintenance

Corr. Maint. Budget Detailed View

FLoc Hier 4

FLoc Hier 5

FLoc Hier

1	Hitachi EX-6 Series ...	Chassis & Body	Chassis &
2			
3			Drive Turn
4			
5			Drive Turn
6			
7			
8			
9			Idler Left
10			
11			Idler Right
12			
13			
14			
15			Swing arm
16			
17			
18			
19			Track Left
20			
21			Track Right
22			
23			Track Chain
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			

Detailed FLOC  
breakdown

Resource Usage Forecast (Corr. Maint.)

Location...

Maint. Activity / Spa...

Key Figures

1	1000	(None)	Forecast Usage of Maint...
2			Labour Cost (Corr. Maint.)
3	3007	(None)	Forecast Usage of Maint...
4			Labour Cost (Corr. Maint.)
5			

Resource \$ Breakdown  
(Labour)

- Budget Review

Prev. Maint. Demand Qty

Prev. Maint. Actuals Qty

Prev. Maint. Demand Qty & Prev. Maint. Actuals Qty

Spare Parts Forecast (Corr. Maint.) -

Location...

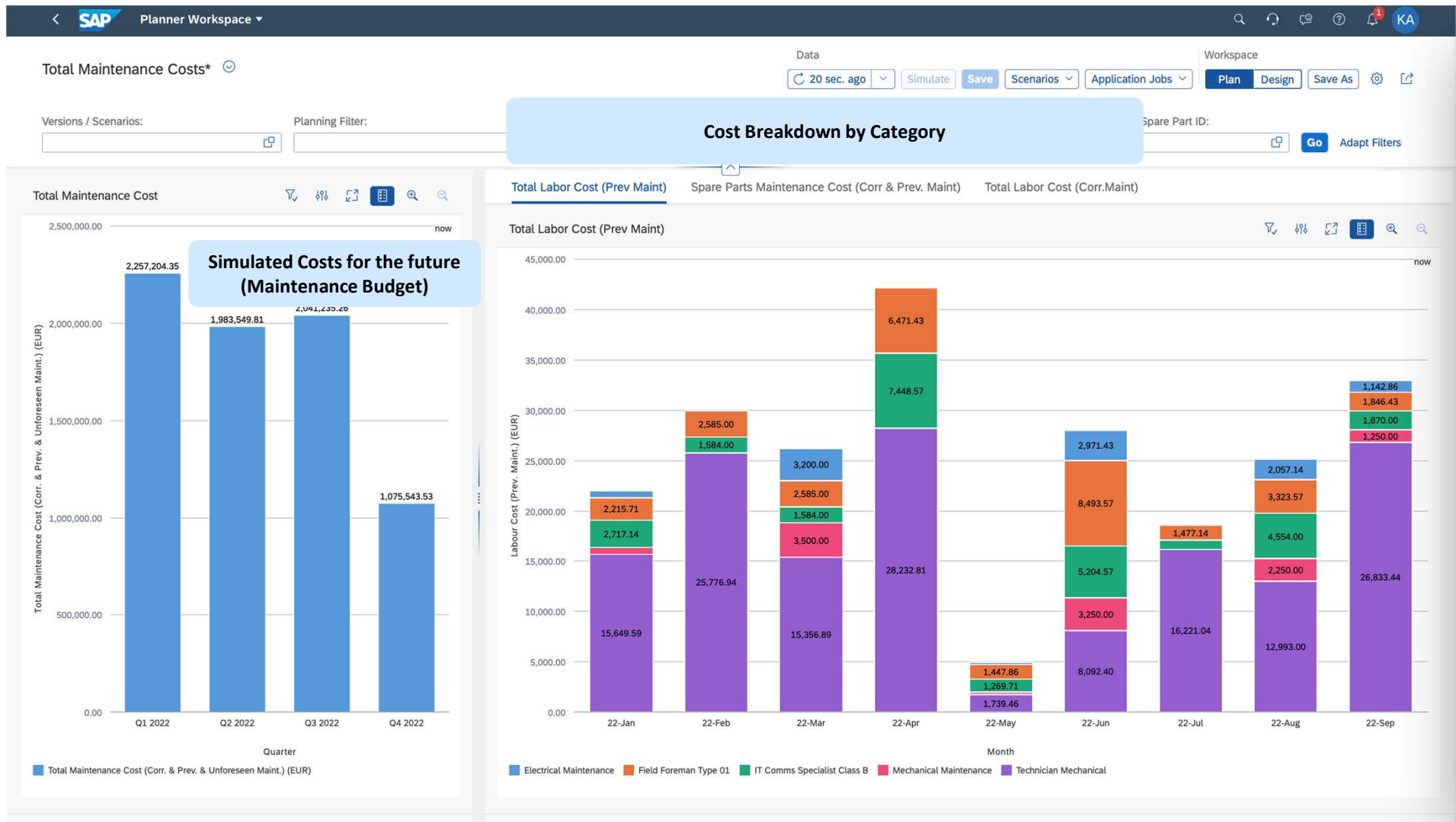
Maint. Activity / Spa...

Key Figures

1	1000	ADAPTER;PIPE-TUBE;HY...	Forecast Usage of Comp
2		ADAPTER;RIPPER TOOTH	Forecast Usage of Comp
3		ADAPTER;RUBBER LINE-...	Forecast Usage of Comp
4		ADAPTER;RUBBER LINE-...	Forecast Usage of Comp
5		AIR CONDITIONER;MIKS...	Forecast Usage of Comp
6		ARM;WINDSHIELD WIPER	Forecast Usage of Comp
7		BELLOWS;STL;3IN;	
8		BELT;V	
9		BELT;V;NO/SET:2	
10		BELT;VEH SAFETY;E	
11		BELT;VEH SAFETY;SEA...	Forecast Usage of Comp
12		BREATHING;FILT	Forecast Usage of Comp
13		CABLE;BTRY	Forecast Usage of Comp
14		CAP;DUST-MOIST	Forecast Usage of Comp

Component  
Breakdown (Parts)

## Integrated Business Planning for MRO



# For a deeper dive on Integrated Business Planning for MRO...

## Agenda – Mastering SAP Sessions

### **Deep Dive: Thinking Outside the ERP - The Key to Unlocking Supply Chain and Asset Management Alignment**

- Friday, June 6, 2025
- 10:40 AM - 12:20 PM
- Orange Room

Unlock true alignment between asset management and supply chain without disrupting your ERP. This session reveals how SAP's AI-powered MRO platform drives smarter maintenance planning, optimizes parts and people, and connects finance, supply, and operations in one powerful planning ecosystem.

#### Speaker



**Regina Kafizova**  
Product Manager  
SAP

#### Co-Author



**Hemant Biradar**  
Solution Advisor, SAP  
Integrated Business  
Planning  
SAP



# Asset reliability and uptime - Summary

Solution

Applications

Data

AI

Predictive maintenance, real-time asset health monitoring, reliability engineering at scale, and dynamic AI-driven scheduling to maximize asset reliability and performance.

**Perform asset reliability engineering at scale** by systematically applying reliability principles across extensive assets, systems, and facilities.

**Regularly monitor asset performance with IoT and AI** to assess health, identify anomalies, and predict failures ahead of time.

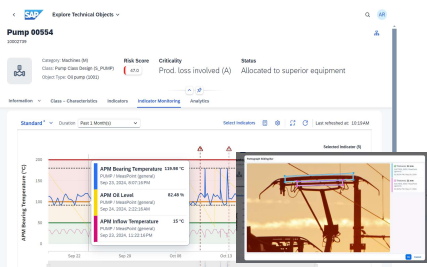
**Optimize backlog planning and scheduling** to maximize resource utilization, asset performance, and customer service levels.

Empower maintenance and service technicians to accelerate time to resolution for mobile work management with intuitive apps.

## Continued innovation

### Today

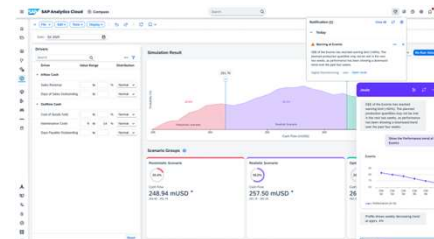
Asset health monitoring & prediction



Identify anomalies, predict asset failures, and generate alerts using AI to trigger work planning and execution.

### Tomorrow

Automation and recommendations across supply chains & networks



Transform from a reactive monitoring tool to a proactive, self-optimizing, system that also recommends prescriptive actions in real-time, optimising asset performance and minimising downtime autonomously.



# How to Connect with Me

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