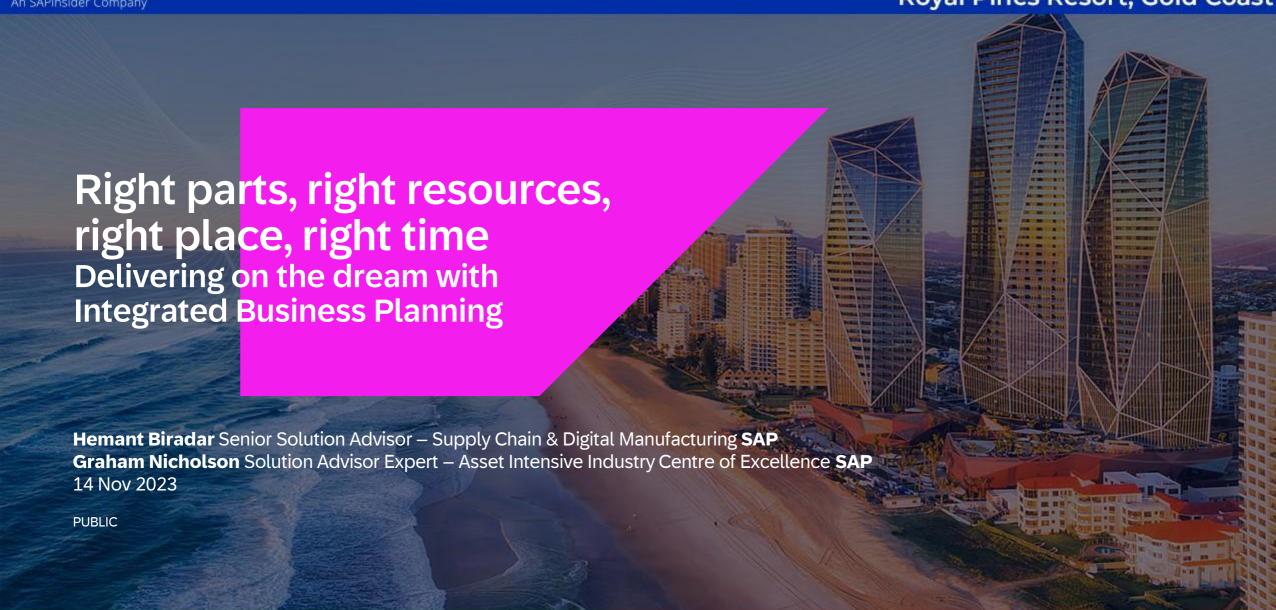
MASTERING SAP

13 - 14 November, 2023 Royal Pines Resort, Gold Coast







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An Apology

Agenda:

1. MRO Challenges & The Dream of "Right" Everything

- Why traditional MRP is NOT enough?

2. SAP IBP for MRO: Bridging the Gap

- From Paper to Practice: Jon's Journey: Addressing 3 Key Challenges with IBP MRO

3. Peek into the Future: SAP's Roadmap for MRO

 Discuss upcoming innovations and the strategic direction for SAP IBP in the MRO sector.

Transforming MRO: The Future Of Maintenance And Repair Is Here





Scientific Precision in Rail MRO Inventory



It's Not Always Reduction

Integrated, Predictability, and Proactivity

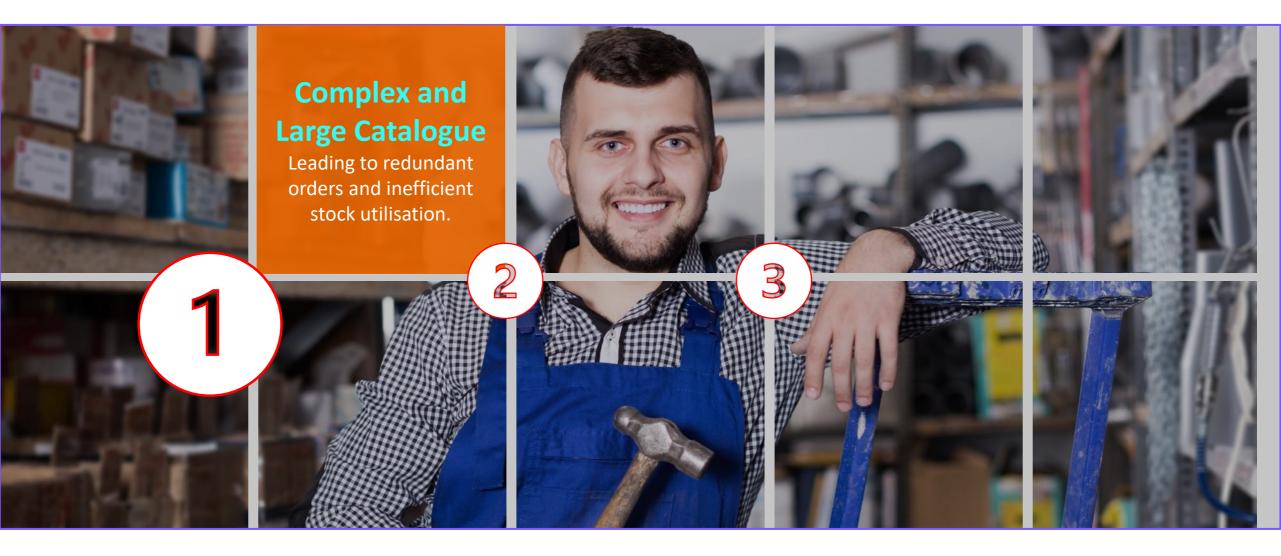


Harnessing Multi-Echelon:

Optimising MRO Across
Layers



Jon's Journey: Addressing 3 Key Challenges with IBP MRO



Complex and Large Catalogue Leading to redundant orders and inefficient stock utilisation

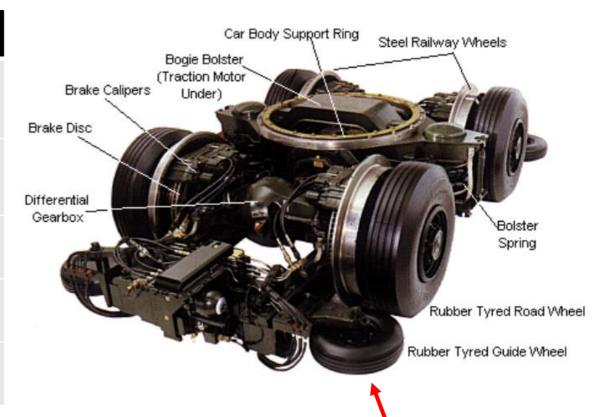


Guess how many parts are there in a high-speed passenger train MRO?

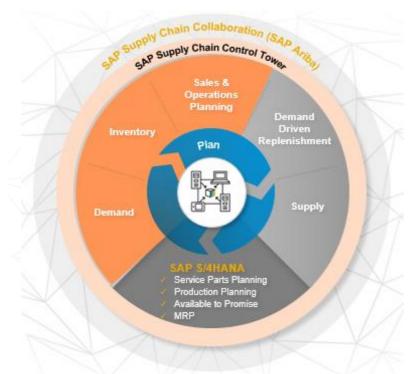


Complex and Large Catalogue Leading to redundant orders and inefficient stock utilisation

Segmentation	Volume (parts)
Criticality	5,000-10,000
Usage	25,000-50,000
Lead time	10,000-20,000
Cost	10,000-20,000
Commodity	10,000-20,000

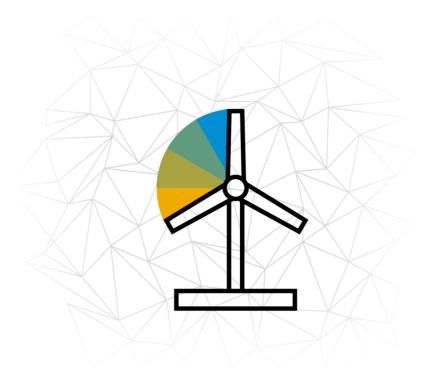


SAP Integrated Business Planning for MRO



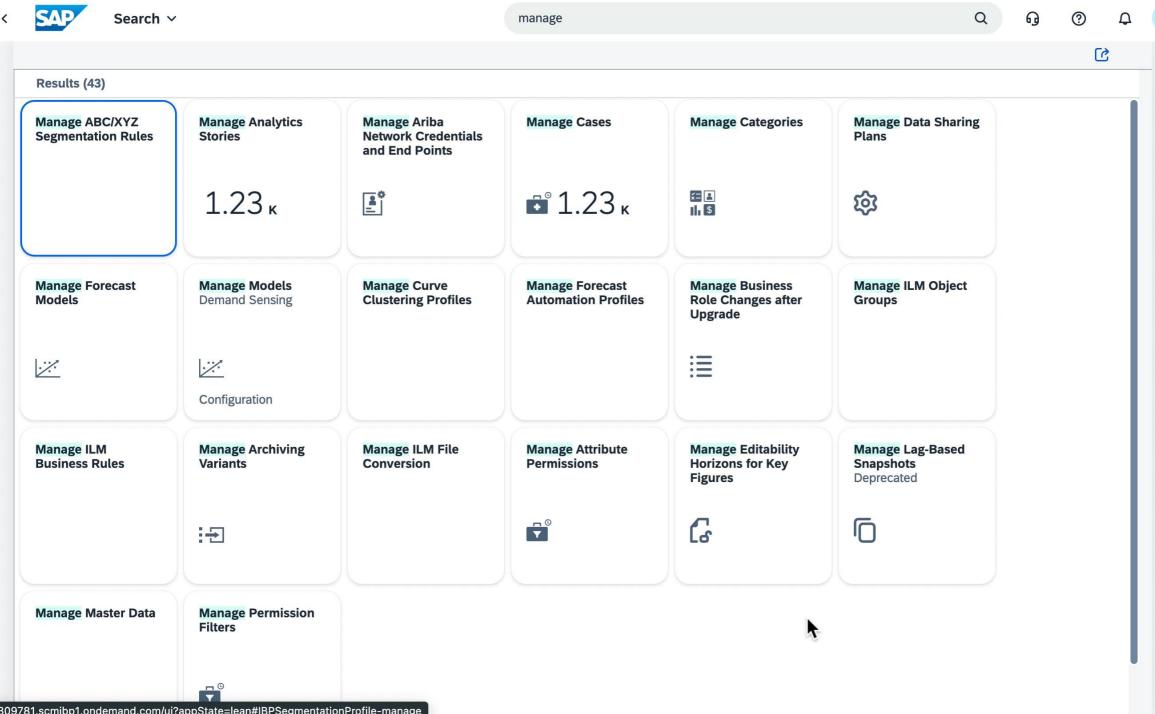
SAP IBP MRO

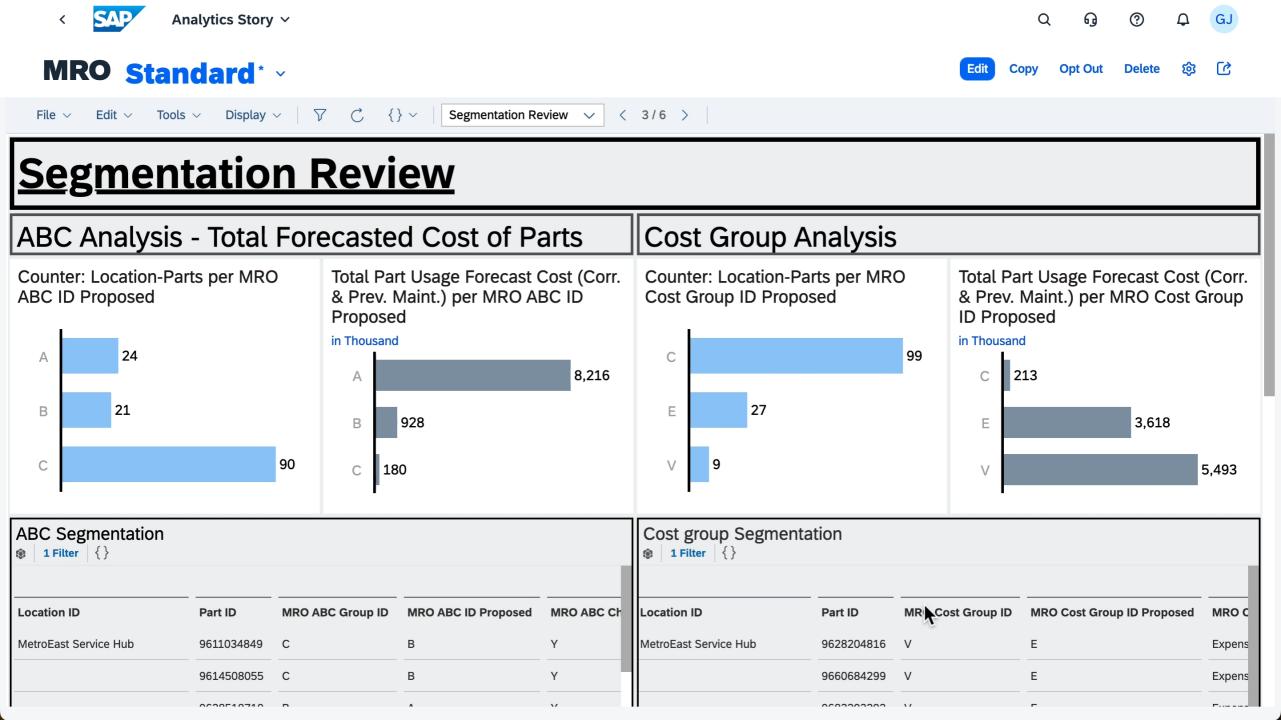
Integrated end-to-end MRO (Maintenance, Repair & Operations) planning solution



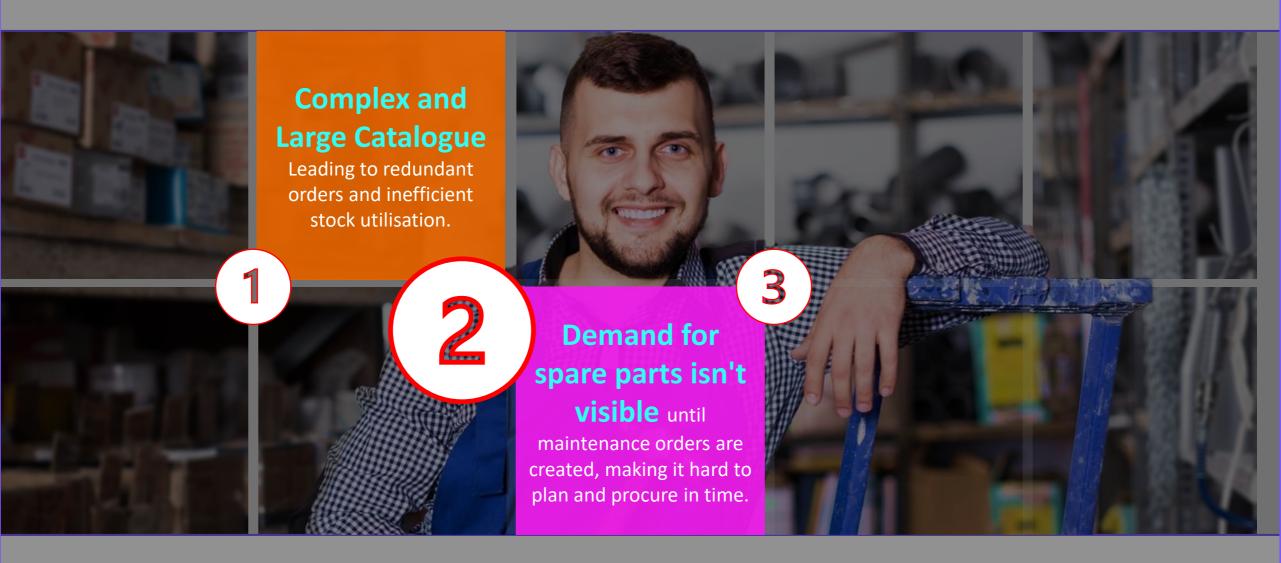
Allows to get the MRO parts & workforce in the right place at the right time to optimize inventory levels & increase assets availability and reliability

SAP 2023 PUBLIC

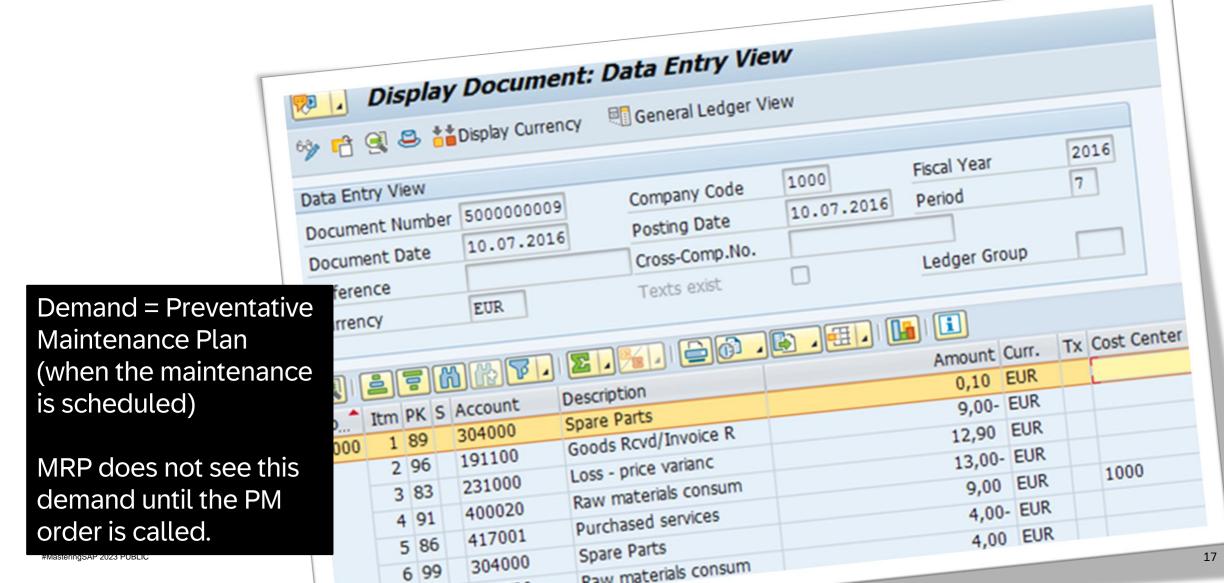




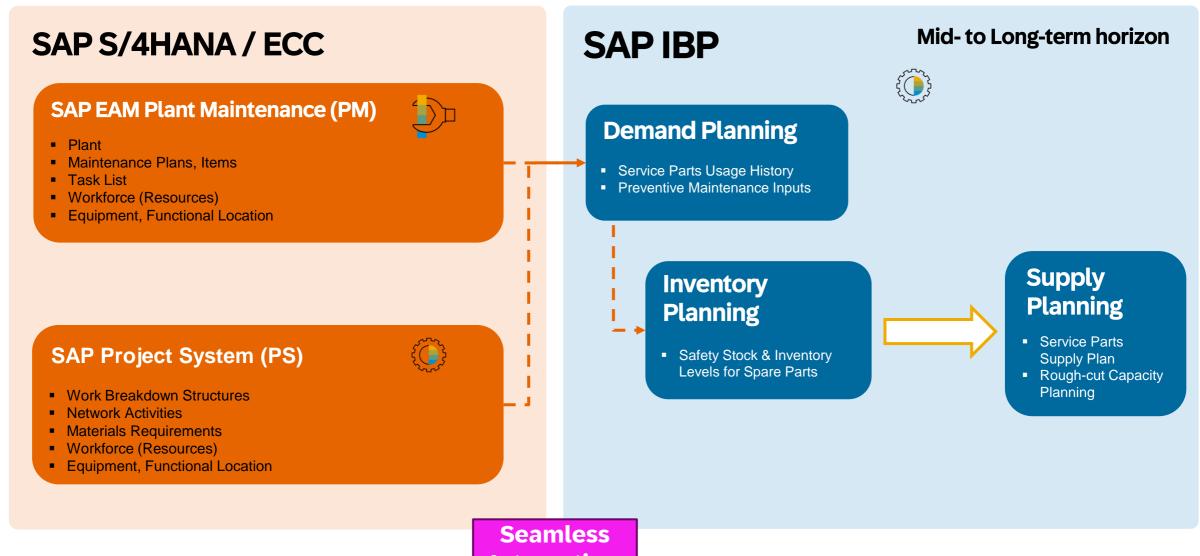
Jon's Journey: Addressing Rail Inventory Challenges with IBP MRO



Demand for Spare Parts isn't visible until maintenance orders are created, making it hard to plan and procure in time

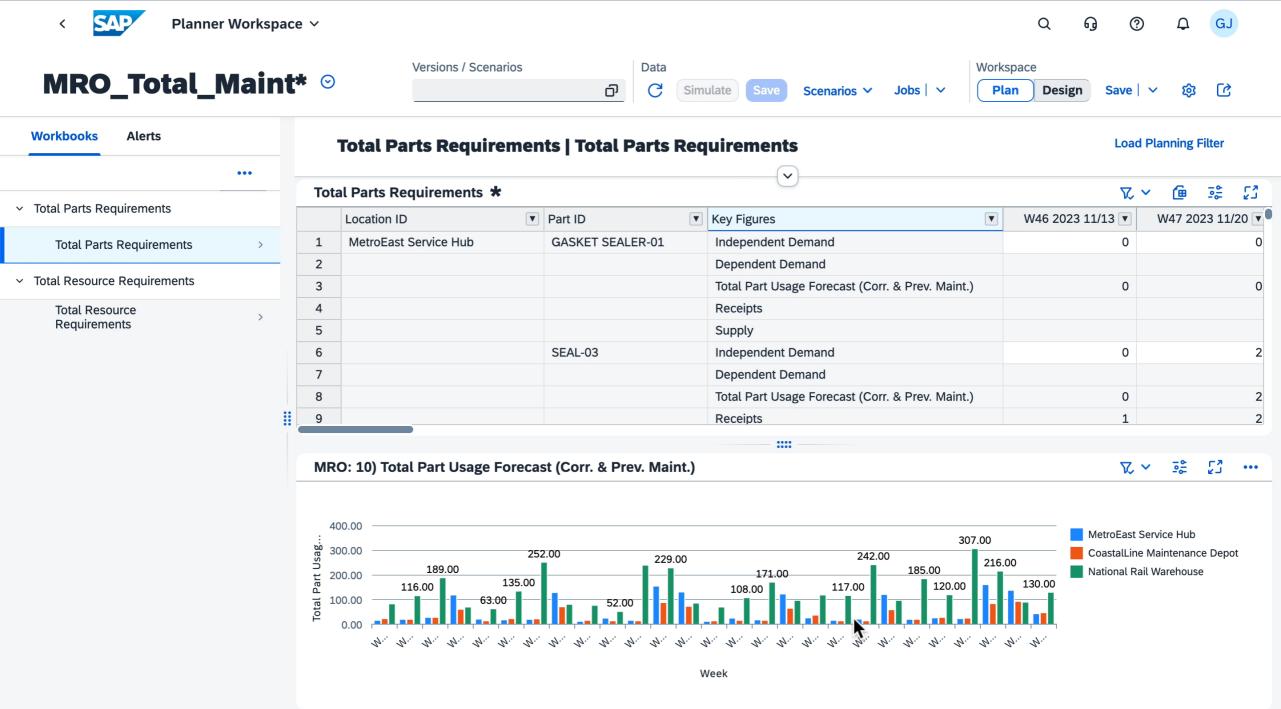


MRO Parts & Resources Planning Process with SAP IBP



#MasteringSAP 2023 PUBLIC Integration

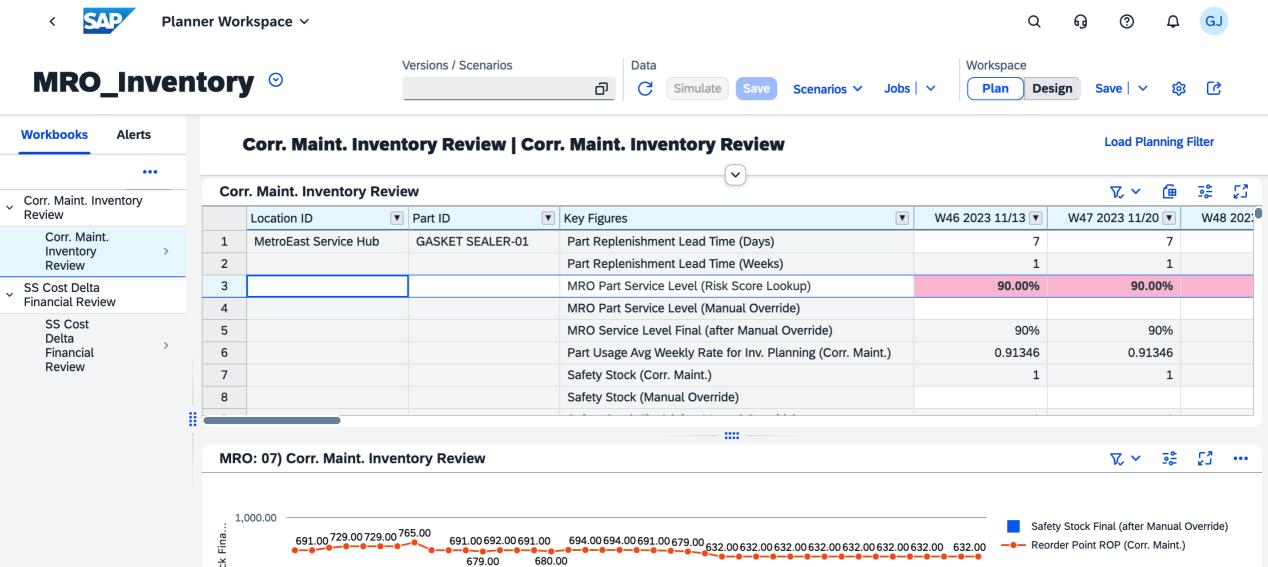
18

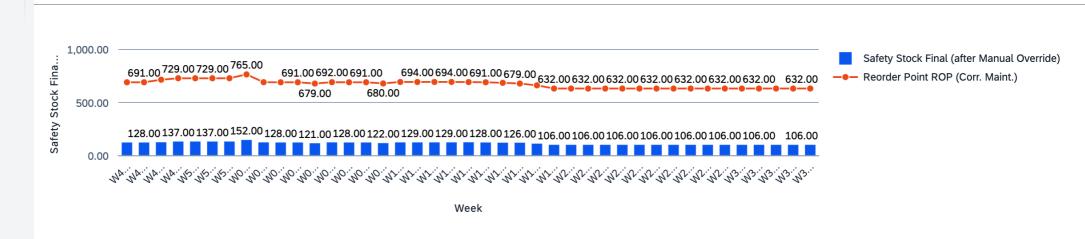


MEIO:

BEYOND GUESSWORK







Go To...

Edit Header





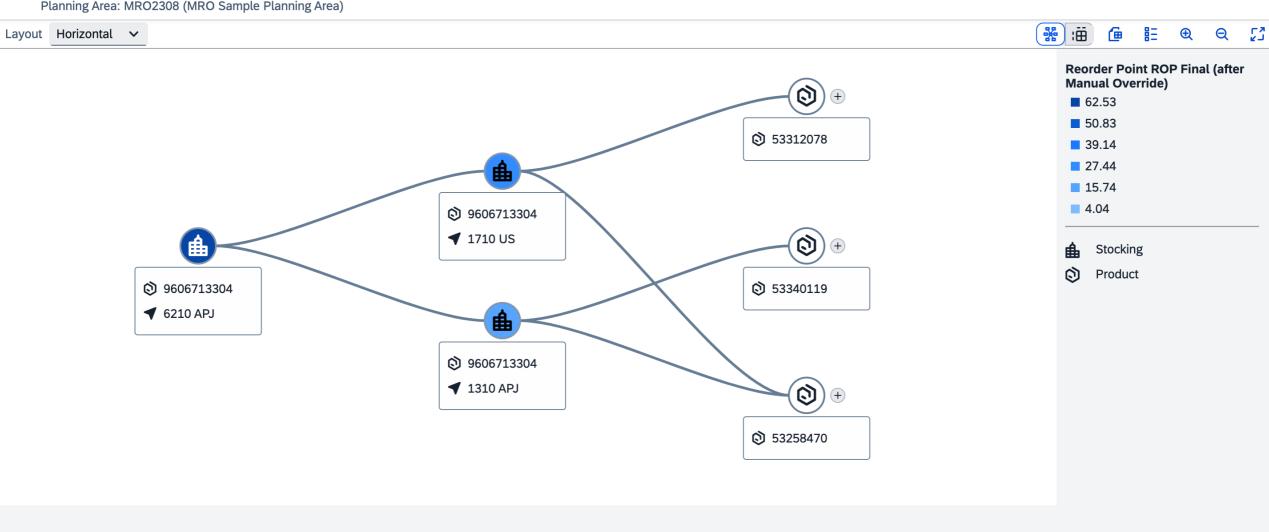
Show Side Panel

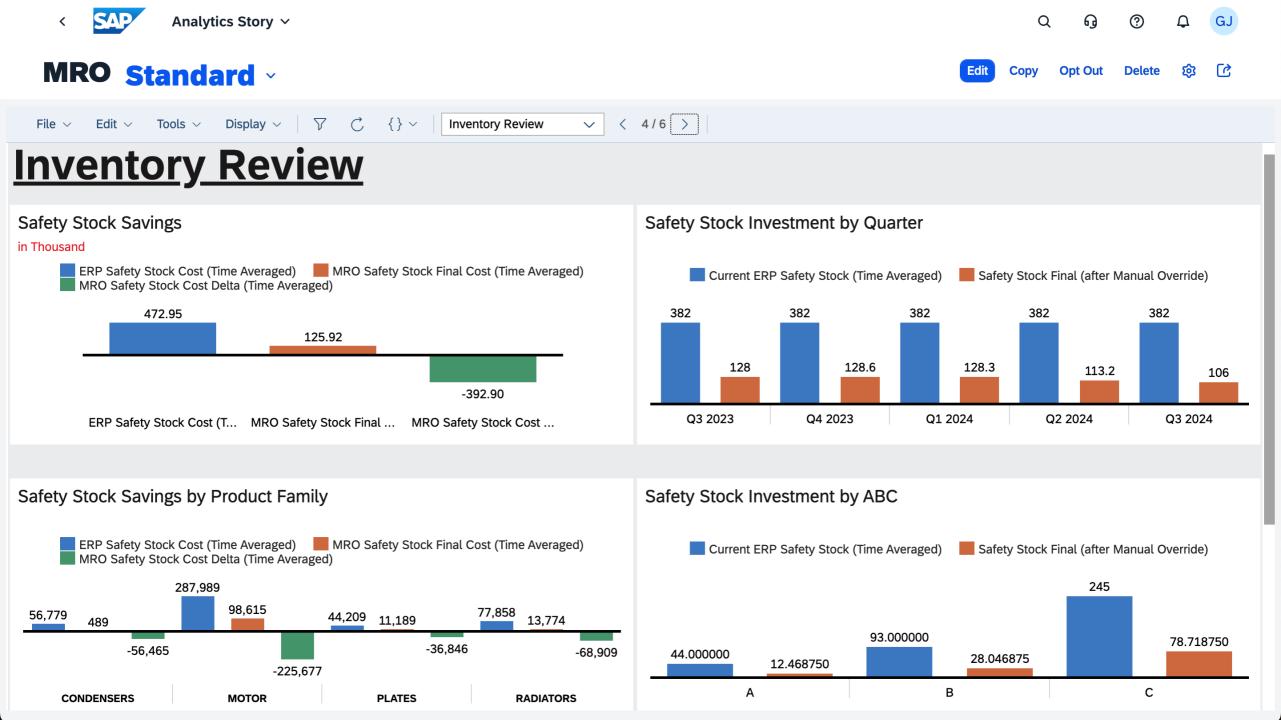


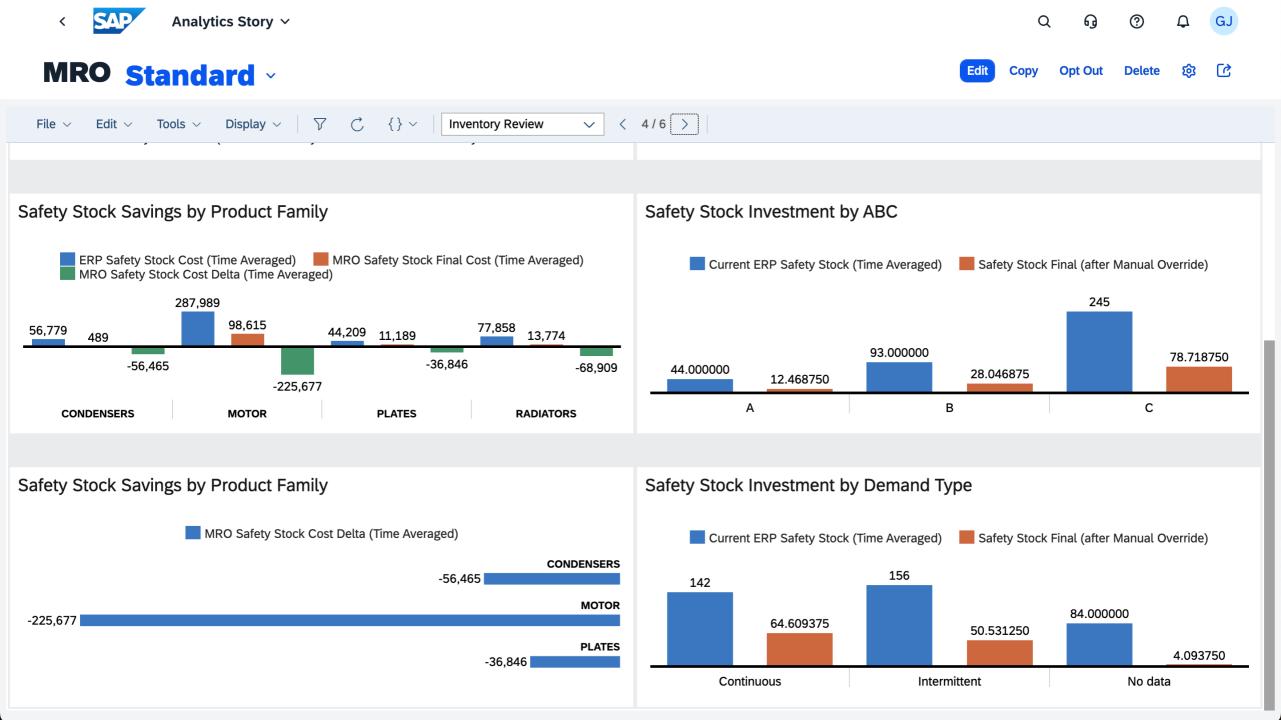
MRO Network

MRO Network

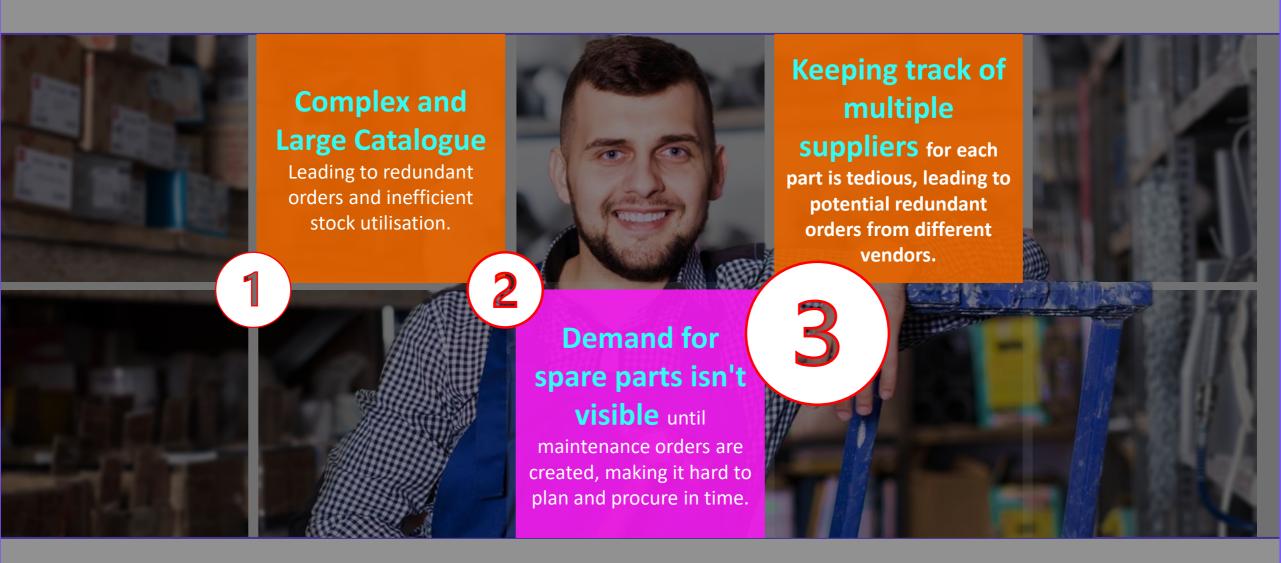
Planning Area: MRO2308 (MRO Sample Planning Area)







3. Keeping Track Of Multiple Suppliers





SAP Business Network Solutions with SAP Business Technology Platform

Integrate and Automate
Achieve resilience by connecting the supply chain with prebuilt integrations and automations to improve efficiency with fewer errors

2

Build and Extend

Extend built-in asset management and supplier network capabilities to support unique business needs

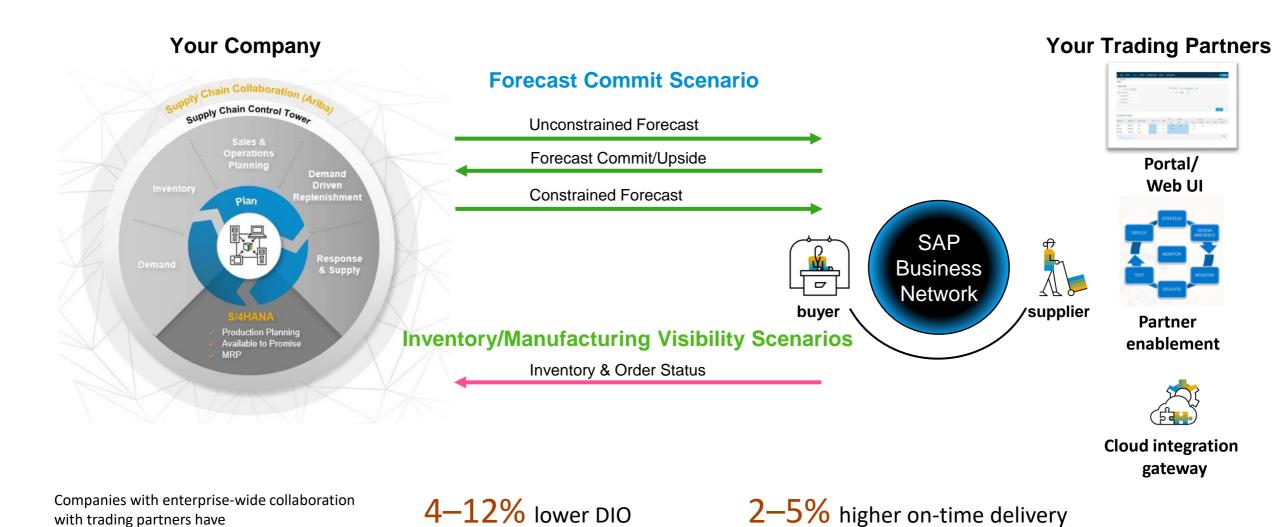


Plan and Analyze

Gain transparency and plan for change with real-time insights and planning data from across the enterprise

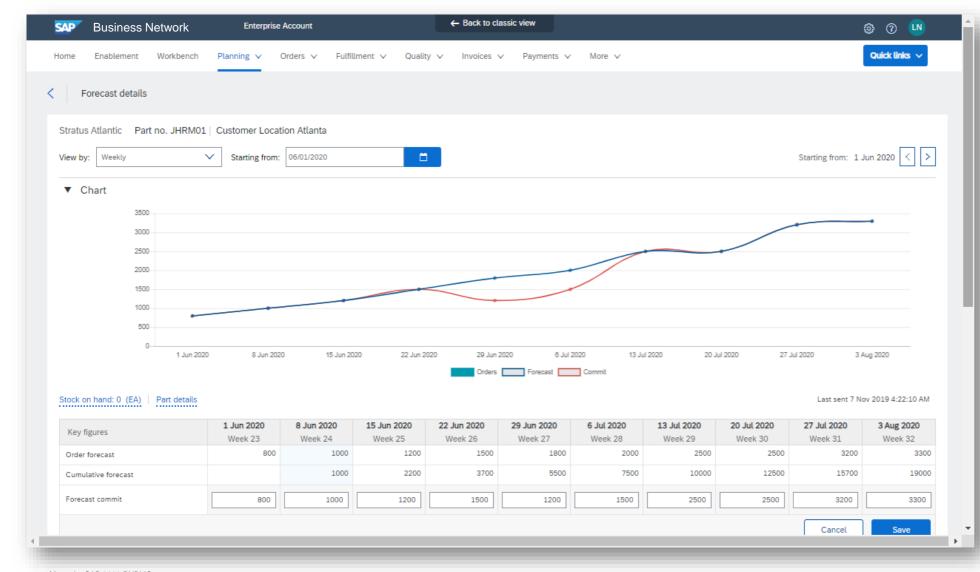
with trading partners have

Integration with SAP Integrated Business Planning – Supply Side



Demo 27 #MasteringSAP 2023 PUBLIC * Future Planned Innovations.

Forecast visibility for suppliers



Provides time series view of forecast for suppliers

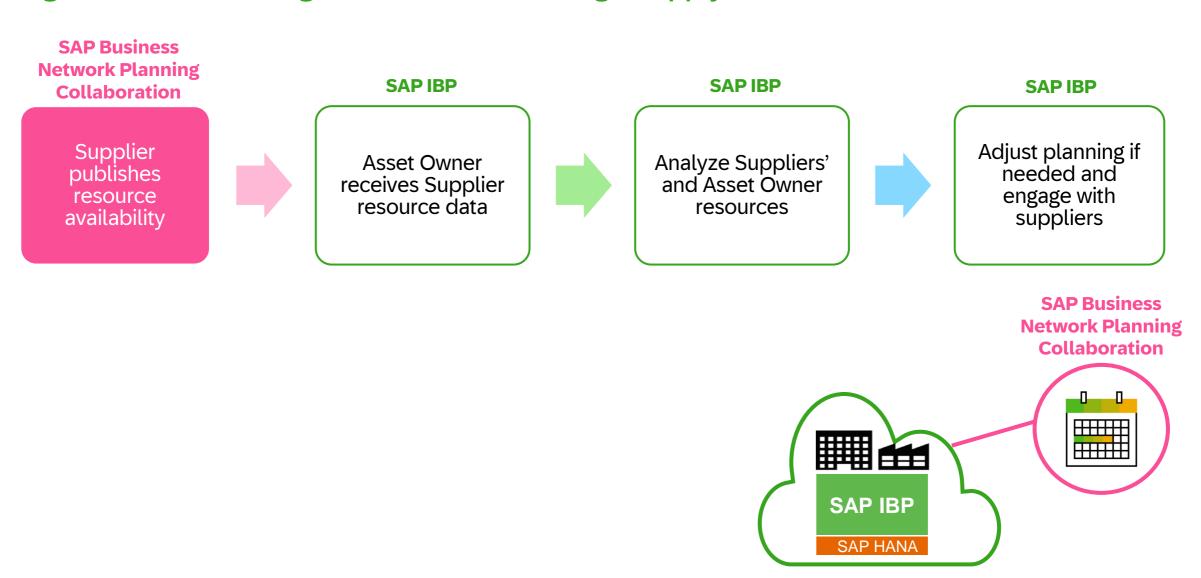
Flexible UI supports

- Search filtering
- Configurable views
- Flexible time bucket views

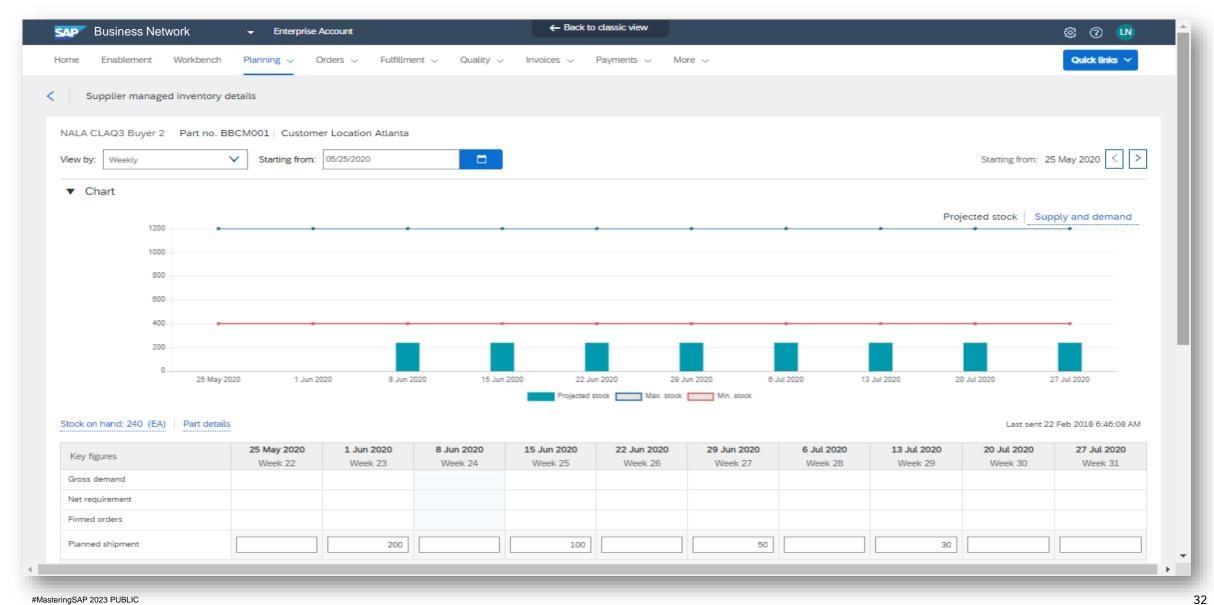
29

- Showing related firm orders
- Excel download and upload

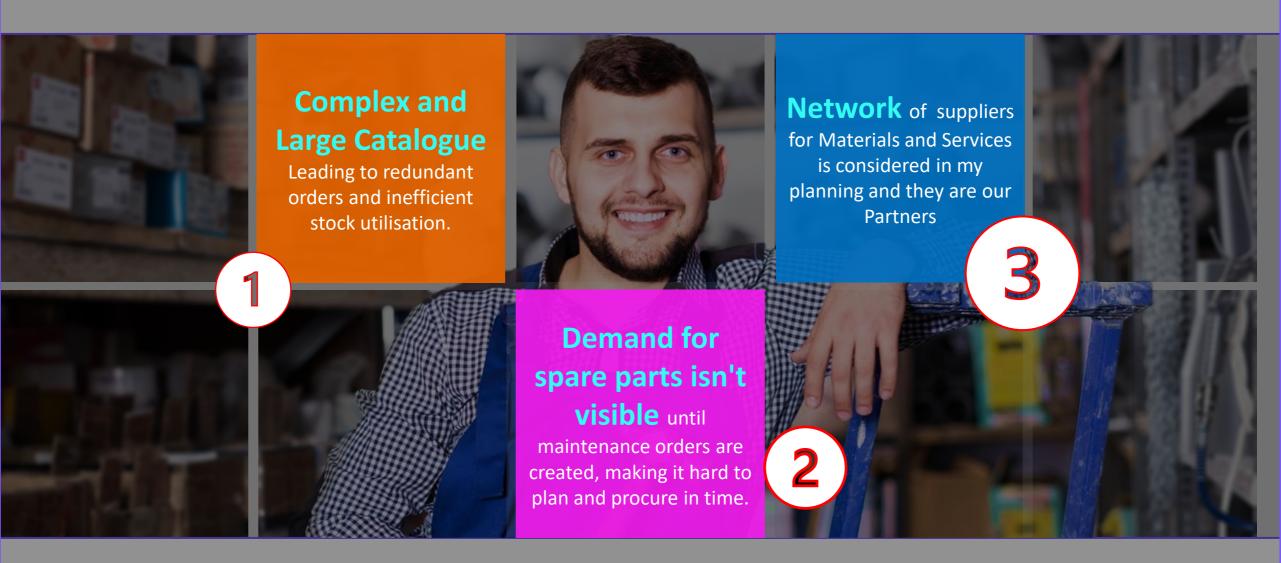
Integration with SAP Integrated Business Planning – Supply Side



Supplier Managed Inventory Process – Detailed Planning View



Jon's Journey: Addressing Rail Inventory Challenges with IBP MRO



Roadmap IBP for MRO Current and Future

SAP Roadmap Viewer



Now

- Integration content for ECC and S/4HANA Enterprise Asset Management
- Integration content for Project System
- MRO-specific Sample Planning area covers Demand, Inventory and Supply Planning
- Criticality based Target Service Level data model extension that accounts for qualitative and quantitative factors
- MRO Inventory Planning operator which calculates Reorder Point and Safety Stock using a Poisson Distribution
- MTBF extension for Inventory Planning Operator
- Best Practice content for MRO process in SAP IBP



Planned in 2311

- IO results integration from IBP to ECC / S/4HANA
- Planned Independent Requirements for MRO Spare Parts integration from IBP to ECC / S/4HANA
- Enhance MRO Inventory Planning operator using a Gamma and Normal Distribution
- Extension of integration content with ECC PM & S/4HANA EAM: new Key Figure data extraction for Preventative Maintenance completed orders costs



Future Direction

- IBP/SAC content for Maintenance Budgeting, Re-supply and Total Maintenance Cost
- CI-DS templates updated to integrate Re-order point
- Rotables Planning (repair, re-introduction, refurbish or scrap material)
- Alerts on Maintenance Activities and navigation to ECC / S/4HANA Maintenance Plans
- Attribute-based criticality segmentation operator
- Low-level code / echelon operator for Criticality based Target Service Level

Swiss Federal Railway

"Working with SAP, we were able to gain a better understanding of how our parts planning approach can be developed further," said Christian Faltus, Swiss Federal Railways SBB head of Procurement and Spare Parts Dispatching. "Maintenance planning and parts planning have been two separate processes so far. With the initiative, we hope to bring both worlds together and ensure that supply chain profits from maintenance optimizations such as condition and predictive maintenance. We're looking forward to innovations from SAP to reduce asset downtime from missing parts."

https://www.youtube.com/watch?v=heRIVNzL1A8

SAP News Center /
Press Room



SAP and Customers Innovate New Ways for Industry-Specific Parts Planning

> Newsbyte by SAP News September 10, 2019



CHICAGO — SAP SE (NYSE: SAP) today announced new use cases to help optimize spare part replenishment, procurement and distribution within supply chains of service and maintenance-intensive companies.



How Do You Predict Spare Parts Needs with Digital Asset, Inventory, and Demand Management?

Maximizing on reserves of roughly 2.4 billion metric tons through innovations in operations management

A world-class integrated iron ore mining, rail, and port operation, Roy Hill is set to become one of the largest mining projects in Australia. Currently shipping 55 million metric tons per annum, the company aims to maximize the return for each metric ton of ore produced. One area of focus has been transforming the way assets are managed and maintained. Roy Hill set out to increase asset and spare parts availability, optimize inventory, and improve supply chain collaboration by transitioning from a replenishment model to a demand-driven model for maintenance, repair, and overhaul.







Roy Hill: Mining Like a Factory - Transforming Asset Management with SAP® Integrated Business Planning

24-60 months

Visibility into the demand for spare parts inventory

Reduced

Working capital

Optimized

Production availability in line with demand chain requirements

10-20%

Reduction in inventory levels for critical asset components such as tires

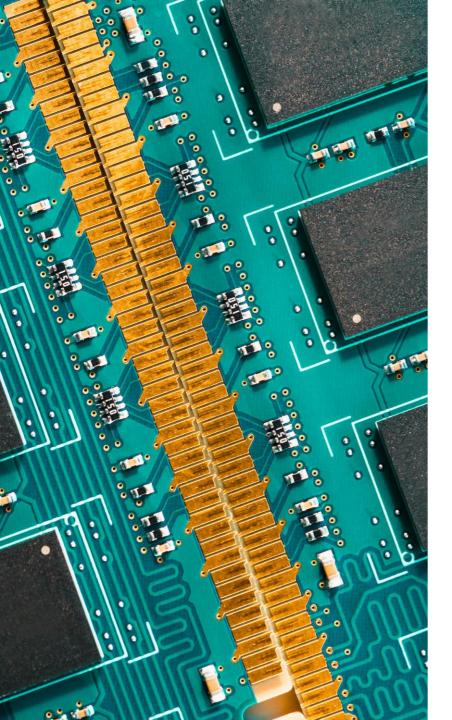
"We are working with SAP to create an integrated core of applications to support industry-leading business innovation. SAP Integrated Business Planning was a critical first step to improving asset and spare parts availability, visibility, and supplier collaboration.

Mike Lomman, General Manager Demand Chain, Roy Hill



BOA HITT





Case Study

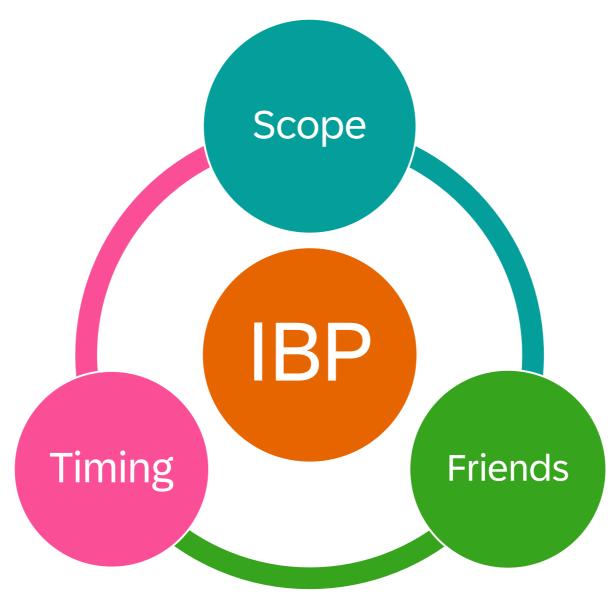
World-Wide High-Tech Company

A renovation of the Plan-to-Procure value stream for the devices supply chain yielded the following benefits in less than 2 years:

- 87% reduction in planning/execution cycle time
- \$200M annual inventory savings
- 65% reduction of obsolete and excess inventory
- 75% improvement in supplier onboarding time



That's Nice, What now



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Thank you.



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