Microsoft Dynamics 365

Supply chain management

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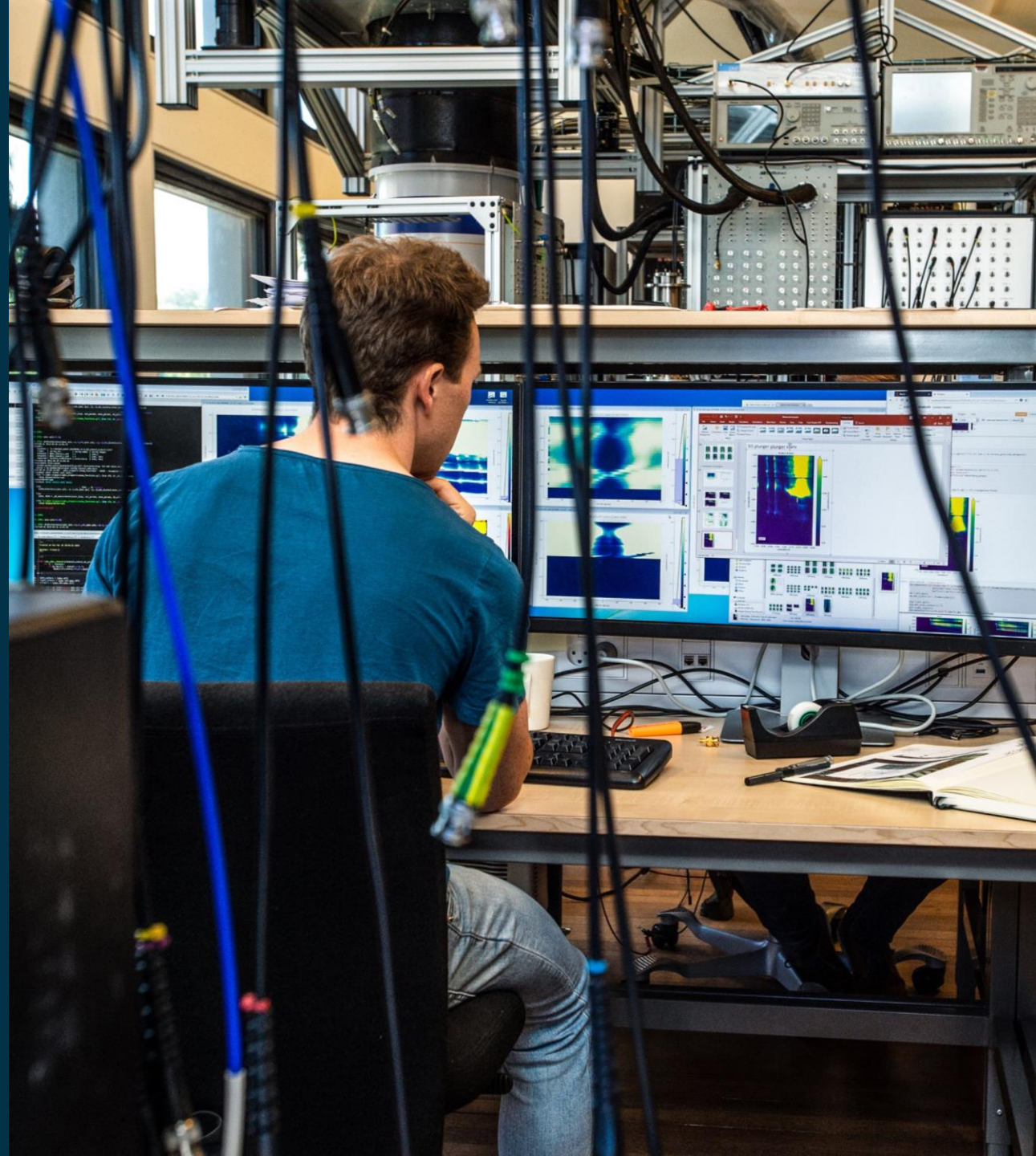
Do your systems enable supply chain innovation?



Transform products
Optimize operations
Data & AI
Engage customers
Empower people

The world's connected AI business cloud

Dynamics 365 & Power Platform

Supporting modern supply chain management

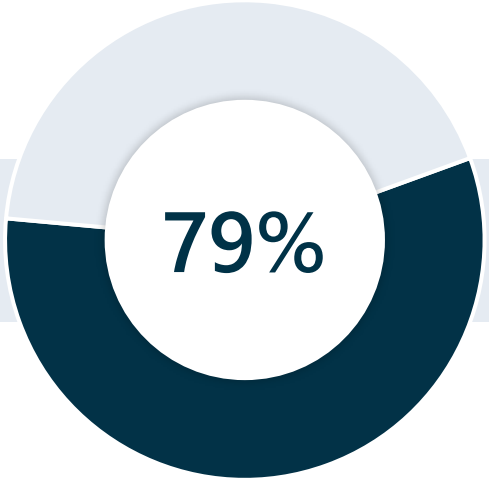
Key considerations for delivering modern supply chain management

Do you have a centralized supply chain management solution that can deliver insights in real time?

Do you have the technology and tools you need to support your business?

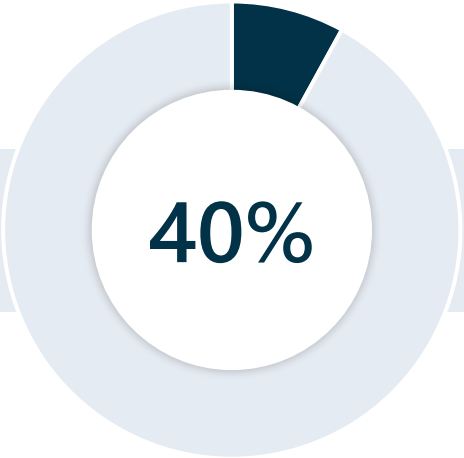
Do you use analytics to predict issues and provide proactive solutions?

Better tools for modern supply chain management



of companies already use Internet of Things (IoT) technologies to improve their operations by tracking customers, products, and supply chains.

of operational warehouse workers will be supplemented— not replaced—by collaborative robots by 2030.

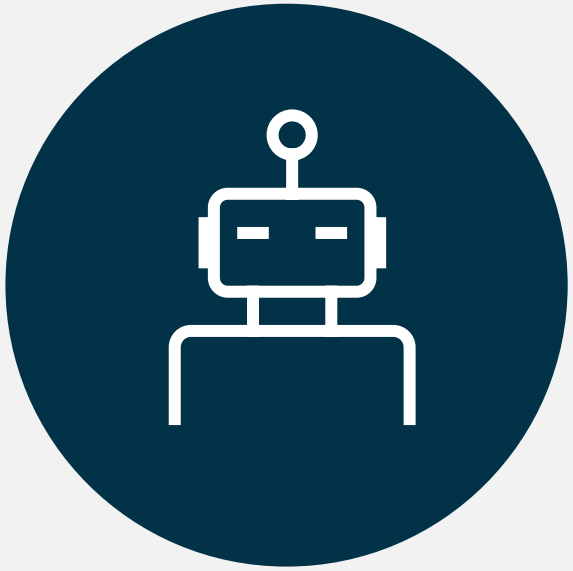


of industrial manufacturers use sensors and other digital technologies to monitor products sold to their customers.

Typical supply chain management concerns

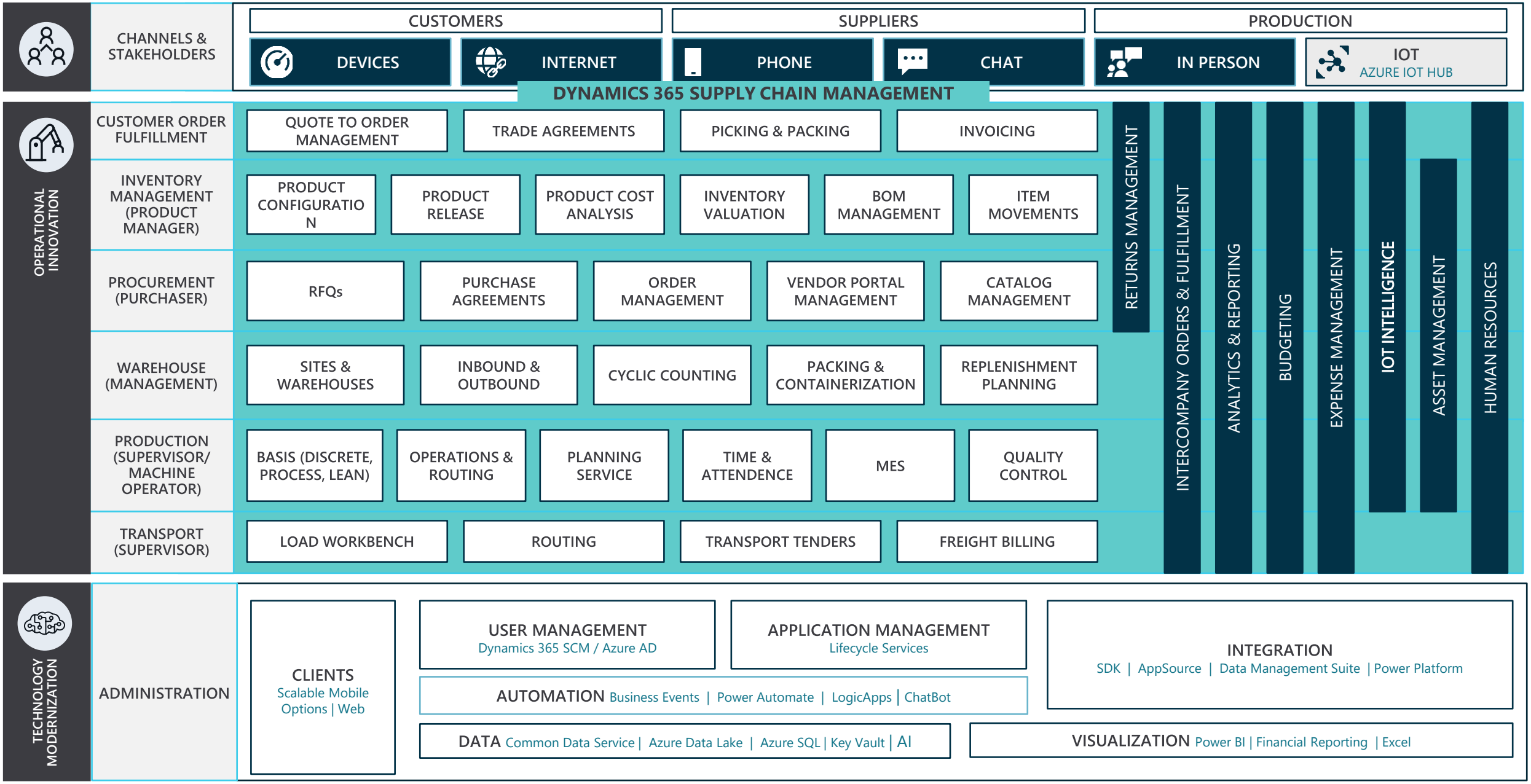
Lack of real-time intelligence and insights

Difficulty meeting customer expectations, demands, and timelines



Limited flexibility to add new and innovative capabilities

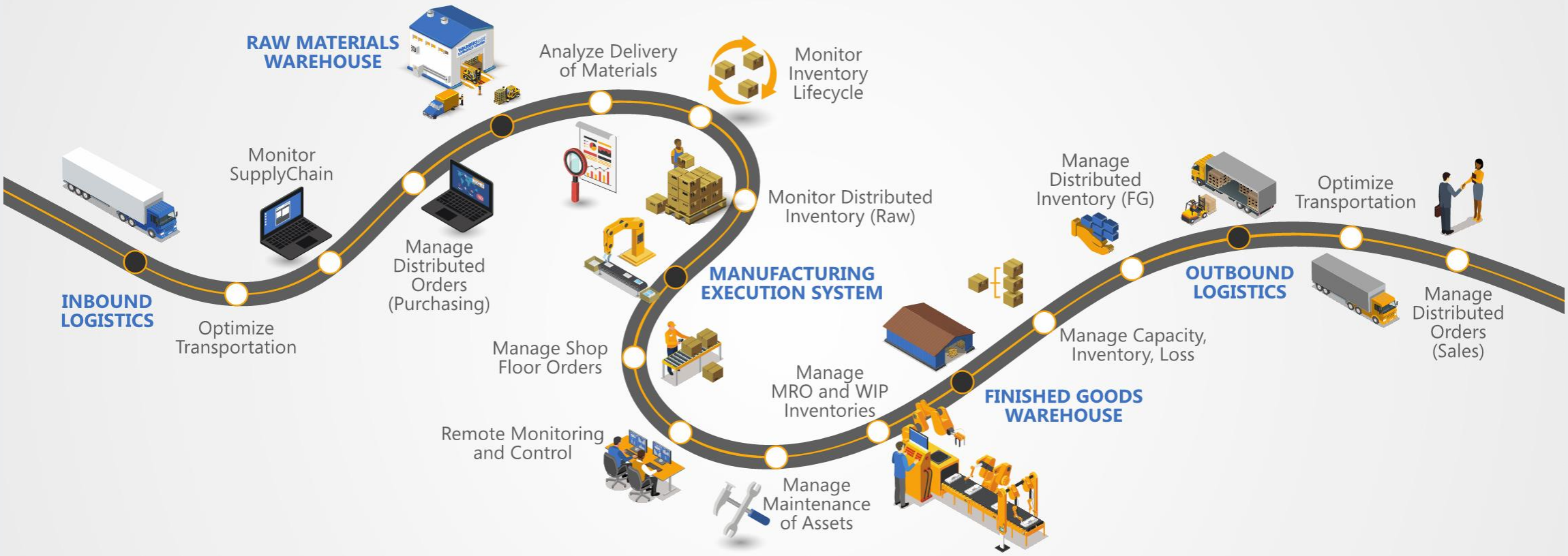
Microsoft ecosystem supporting intelligent supply chain management



Operational innovation

- Optimize fulfilment by synchronizing information across logistics, sales, and purchase management.
- Streamline the procurement process and get deep visibility into product inventory.
- Accelerate product delivery using advanced transportation and warehouse management.
- Implement a unified and intelligent production lifecycle that covers planning, scheduling, operations, and management.

Traditional manufacturing – doesn't have a digital feedback loop



DIGITAL HOTSPOTS

Inbound/Outbound Logistics
Manage Distributed Orders
Optimize transportation and routing
Monitor supply chain performance

Warehousing
Manage Distributed Inventory
Manage capacity and consumption
Monitor inventory lifecycle

Manufacturing Execution System
Manage MRO and WIP inventories
Manage production and maintenance
Remotely monitor and control

OPERATIONAL INNOVATION

Optimize fulfillment by synchronizing information across logistics, sales, and purchase management.

Fulfillment optimization

Vendor management and collaboration

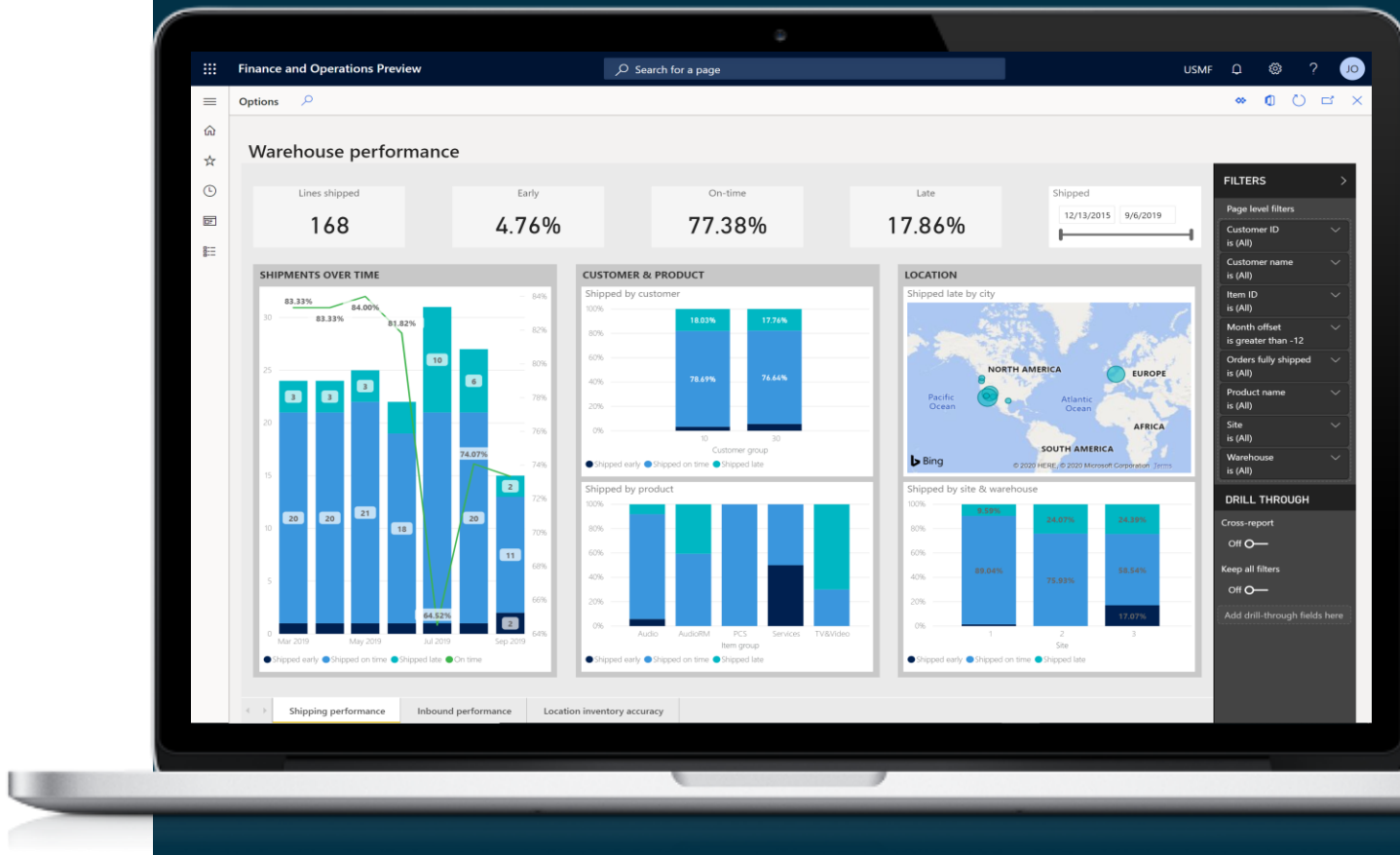
Enhanced transportation for inbound and outbound orders

OPERATIONAL INNOVATION

Optimize fulfillment by synchronizing information across logistics, sales, and purchase management.

Fulfillment optimization

- Reduce the risk of items going out of stock with backup inventory.
- Optimize minimum stock levels to adapt seasonal or periodic demand shifts
- Synchronize intercompany sales and purchase orders as well as fulfilment of sales and purchase agreements.
- Improve efficiency with Increased visibility and insight into supply chain

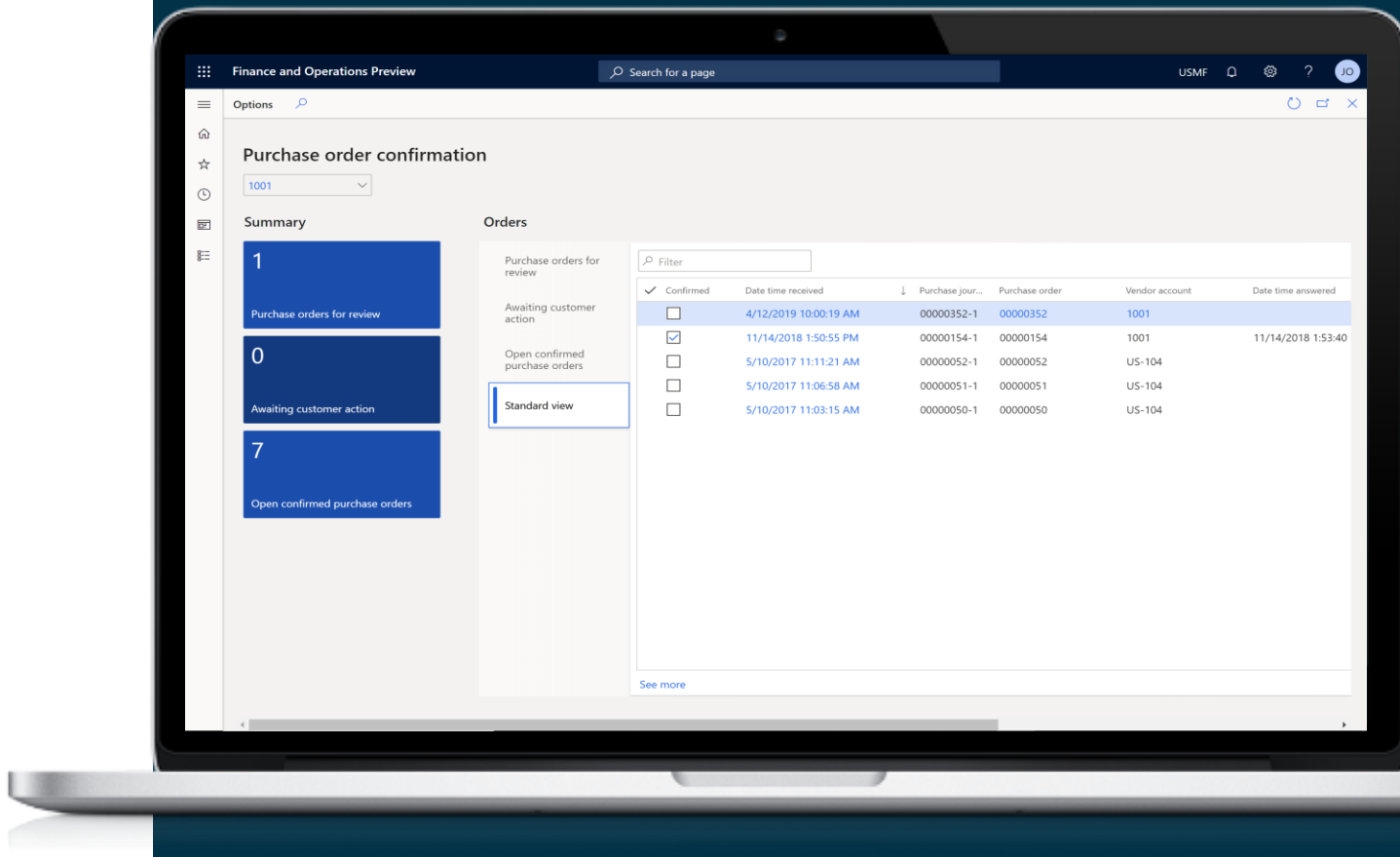


OPERATIONAL INNOVATION

Optimize fulfillment by synchronizing information across logistics, sales, and purchase management.

Vendor management and collaboration

- Collaborate with external vendors using a vendor collaboration interface that displays information about purchase orders, invoices, and consignment stock.
- Set up a workflow to provision new interface users and manage their security roles.
- Use the vendor collaboration mobile workspace to help vendors stay informed on purchase order statuses and respond easily to orders that are awaiting approval.
- Retain records of all collaboration actions for vendor performance evaluations and auditing purposes.

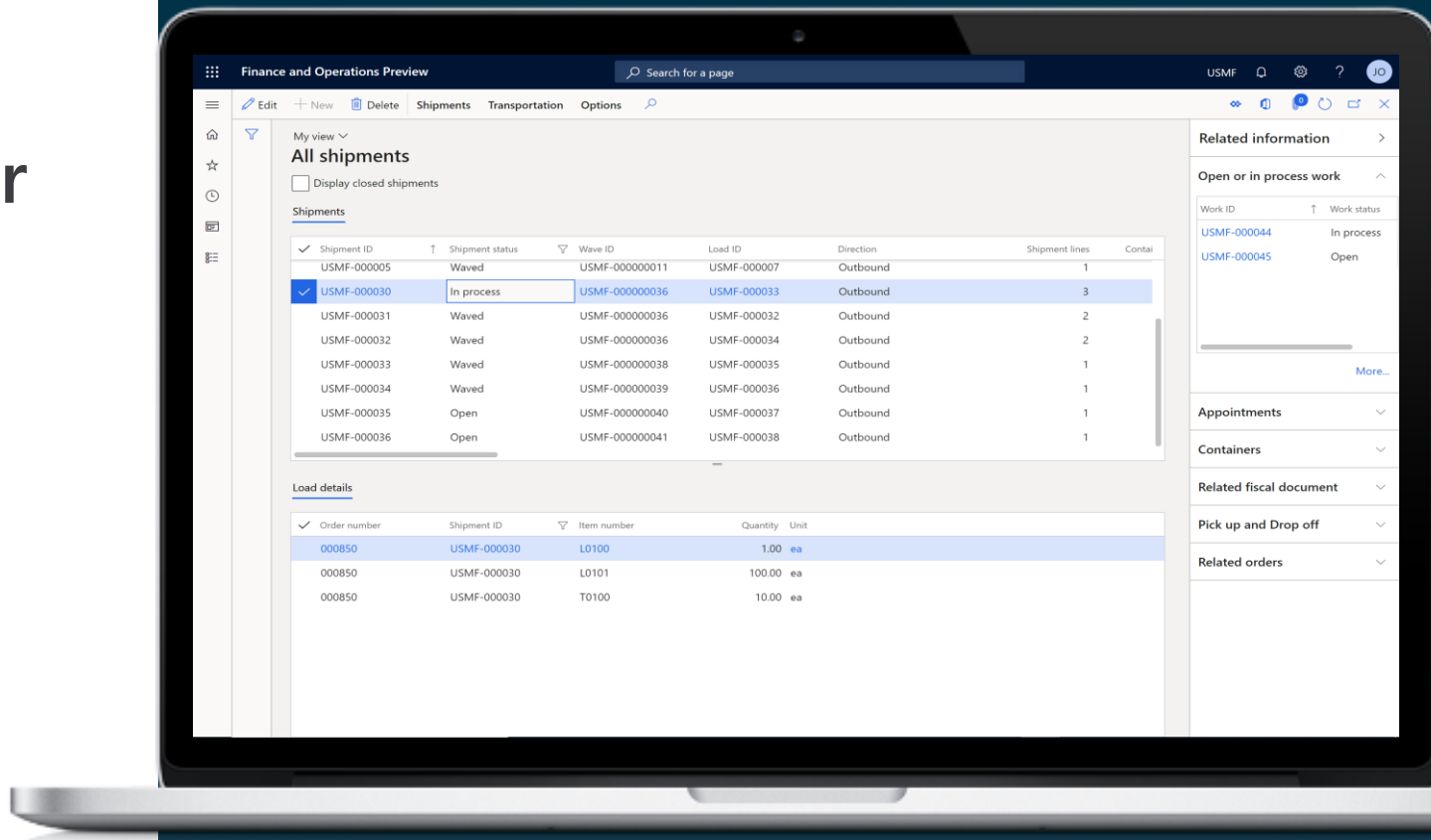


OPERATIONAL INNOVATION

Optimize fulfillment by synchronizing information across logistics, sales, and purchase management.

Enhanced transportation for inbound and outbound orders

- Identify vendor and routing solutions for inbound and outbound orders, such as the fastest route or the least expensive shipment rate.
- Use the transportation management engine to calculate tasks, such as the carrier transportation rate or mileage engine.
- Use analyzed data to make informed decisions that directly and indirectly impact delivery time and shipment accuracy.
- Get role-based access and real-time visibility from procurement, warehousing, and production scheduling managers as well as supply chain and transportation staff.



OPERATIONAL INNOVATION

Streamline the procurement process and get deep visibility into product inventory.

Inventory management

Product configuration capabilities

Procurement management

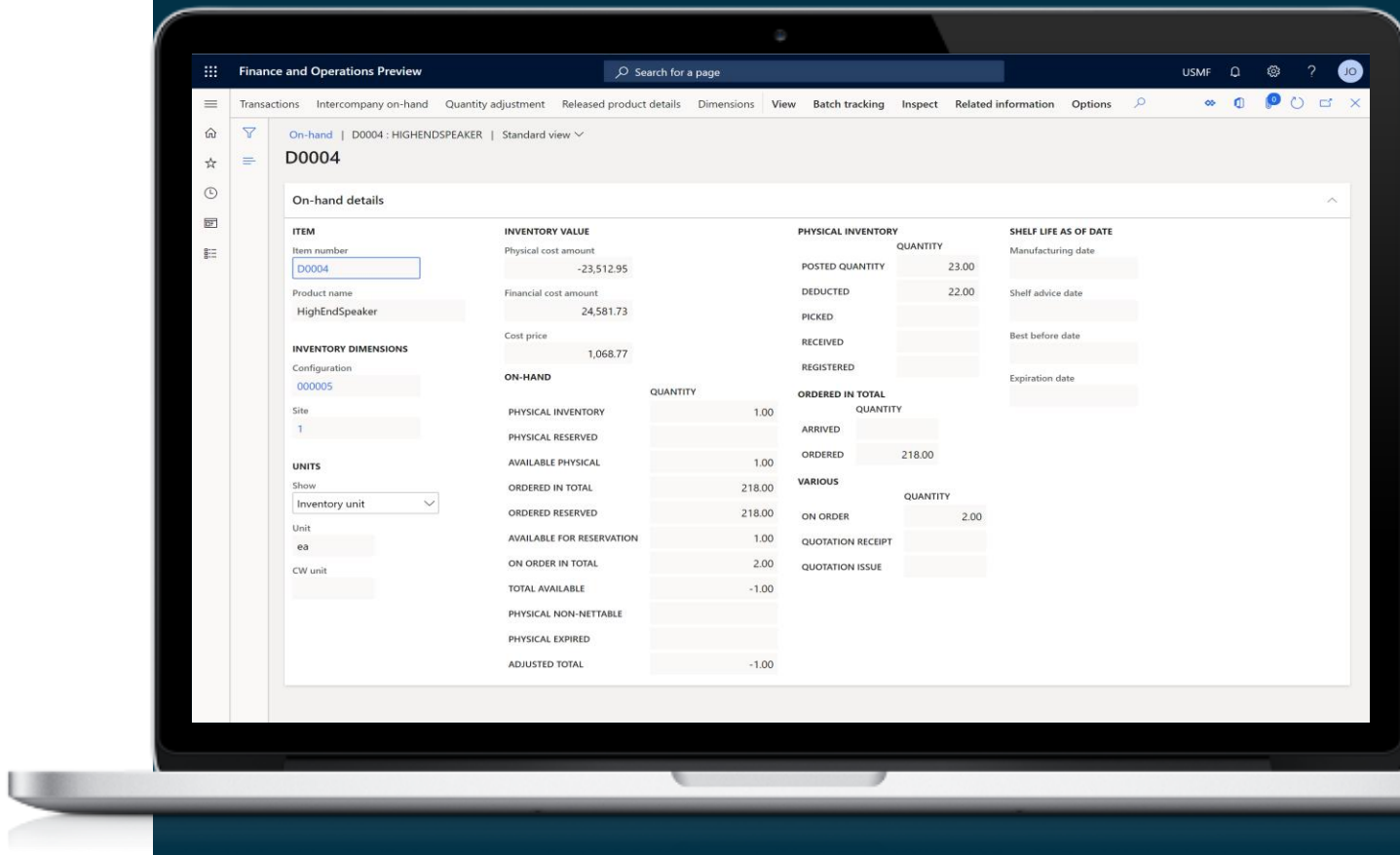
Advanced inventory management capabilities

OPERATIONAL INNOVATION

Streamline the procurement process and get deep visibility into product inventory.

Inventory management

- Get comprehensive inventory management with inbound and outbound inventory operations, quality assurance, and better inventory control.
- View the arrival overview page for updates on expected incoming items.
- Use output orders to link sales order and transfer order lines with outbound picking processes.
- Stay updated on physical inventory transactions.
- Guarantee high quality products with quality assurance measures that involve product testing and nonconforming material management.

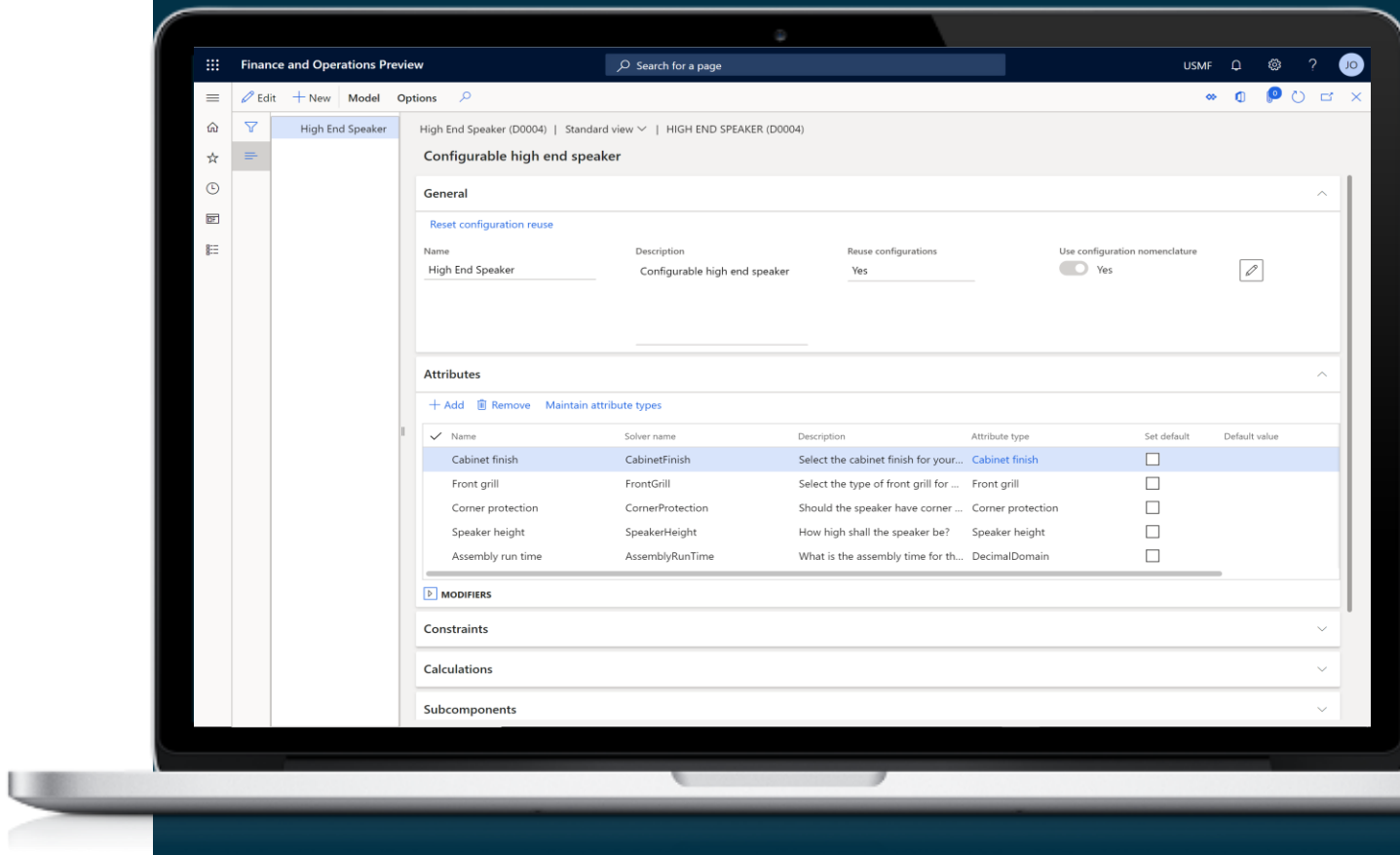


OPERATIONAL INNOVATION

Streamline the procurement process and get deep visibility into product inventory.

Product configuration capabilities

- Get a visual overview of the product configuration model structure.
- Choose the best way to enter your product reference data with flexibility that meets your business' needs.
- Take an alternative approach by first creating the model and then adding reference data as the need arises.
- Take advantage of product configurations that can be performed from the sales order line, sales quotation line, purchase order line, production order line, and item requirement line.
- Extend a product configuration model through the API.

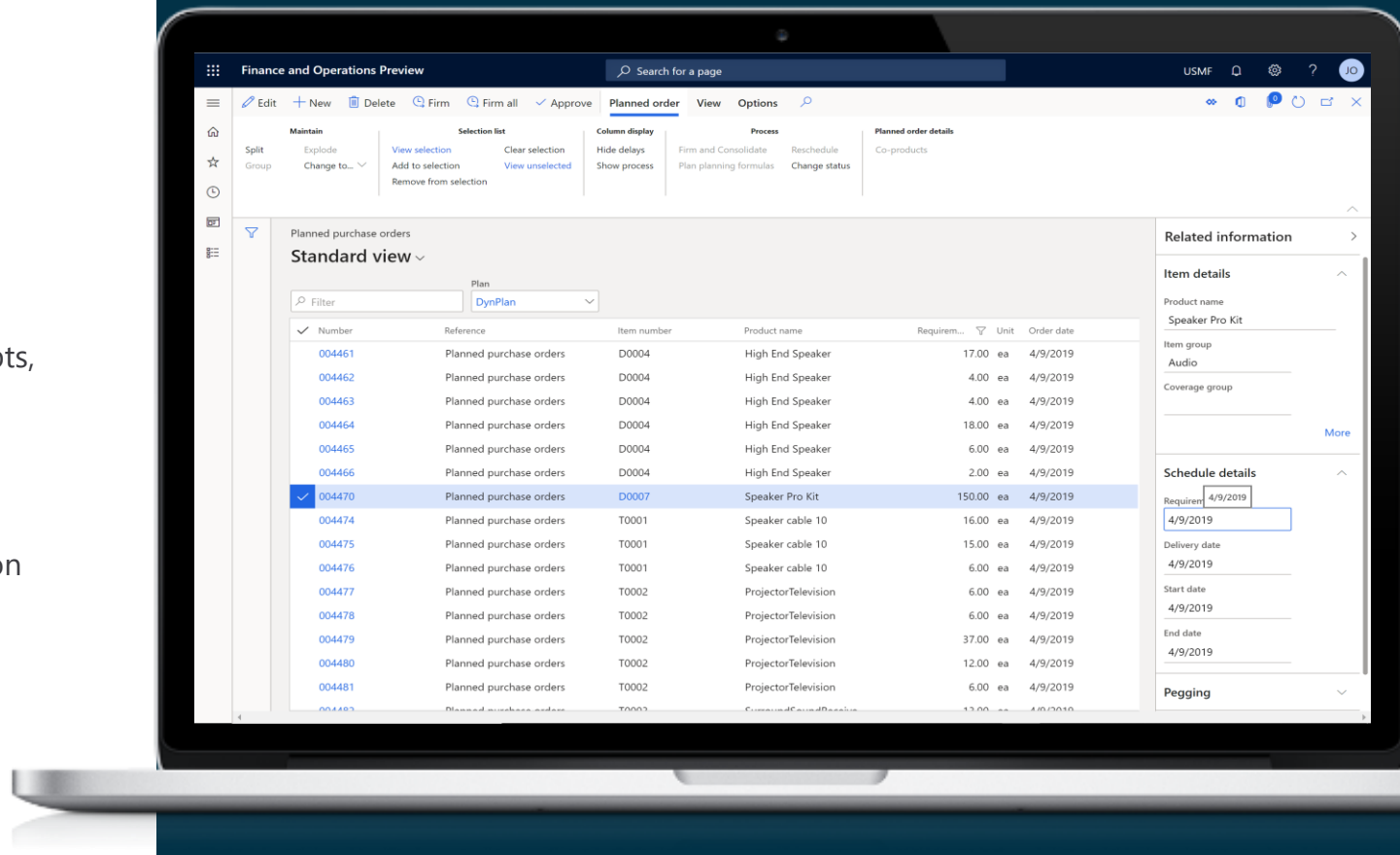


OPERATIONAL INNOVATION

Streamline the procurement process and get deep visibility into product inventory.

Procurement management

- Identify product and service needs and procure products, receipts, invoices, and payments through procurement and sourcing management.
- Define purchasing policies and workflows to configure procurement processes that meet your business needs.
- Manage product catalogues and procurement channels based on demand and vendor pricing and capabilities.
- Use spending limits to constrain requisition spending and the purchasing workflow.

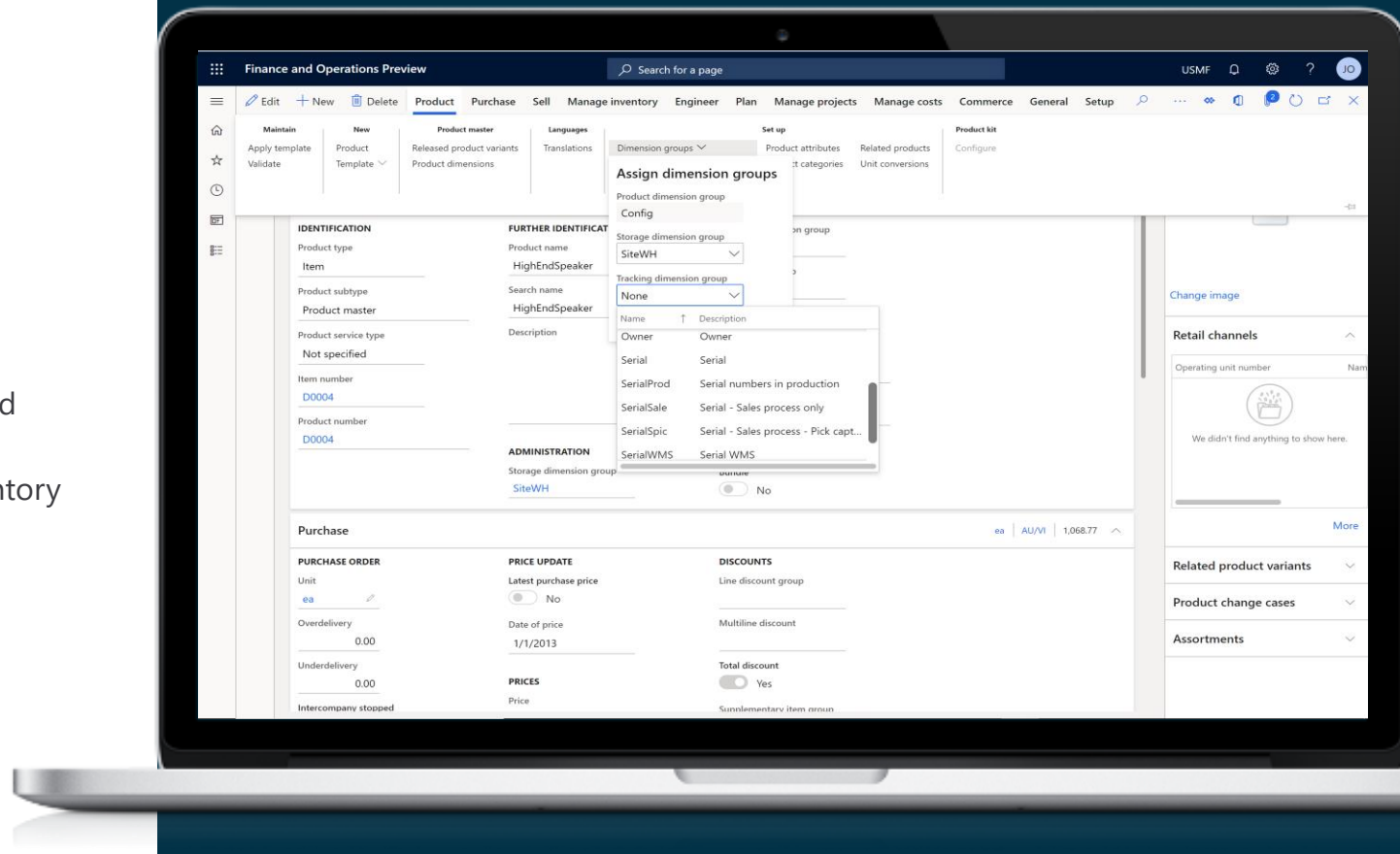


OPERATIONAL INNOVATION

Streamline the procurement process and get deep visibility into product inventory.

Advanced inventory management capabilities

- Address complex inventory challenges faced by distributors and manufacturers.
- Use industry-leading demand models to make intelligent inventory replenishment decisions.
- Account for inventory using multiple cycle-counting strategies.
- Support advanced item tracing.



OPERATIONAL
INNOVATION

Accelerate product delivery with advanced transportation and warehouse management.

Transportation management

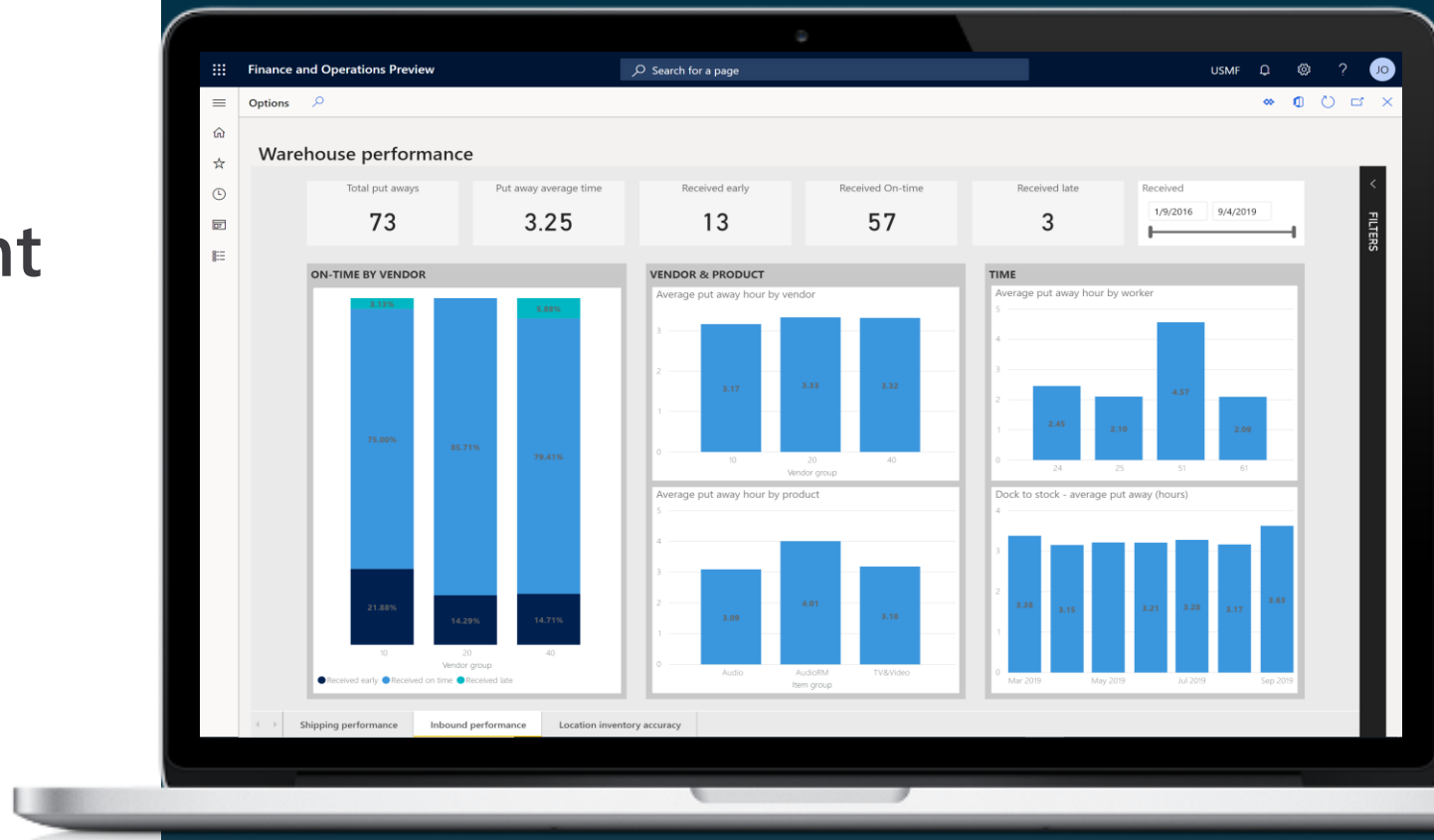
Warehouse management

OPERATIONAL INNOVATION

Accelerate product delivery with advanced transportation and warehouse management.

Transportation management

- Identify vendor and routing solutions for inbound and outbound orders.
- Define the logic that's used to generate and process transportation rates.
- Manage transportation activities of external logistics providers.

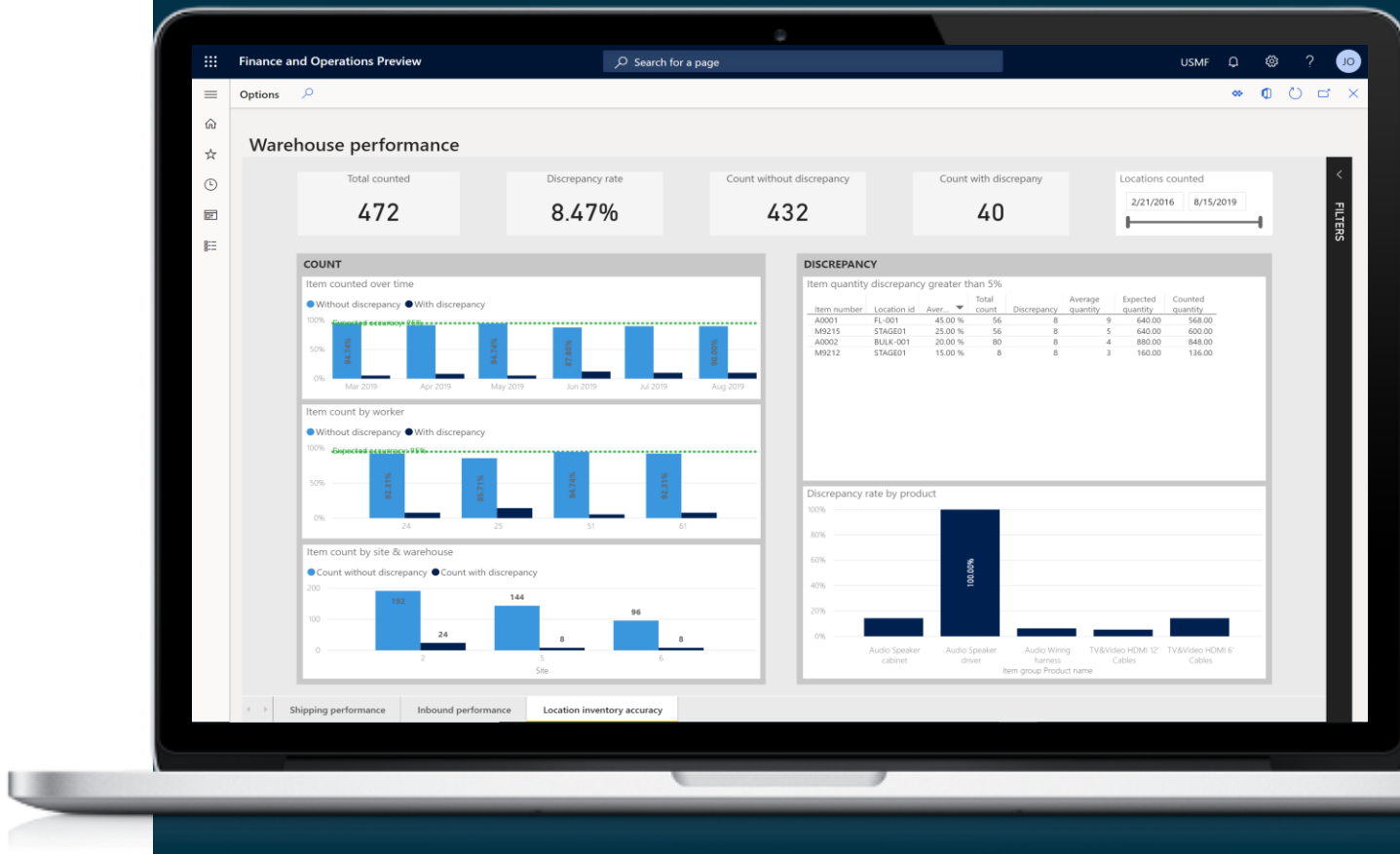


OPERATIONAL INNOVATION

Accelerate product delivery with advanced transportation and warehouse management.

Warehouse management

- Manage warehouse processes for manufacturing, distribution, and retail companies.
- Get out-of-the-box and next generation support for barcode scanners.
- Integrate warehouse management with other business processes in finance and operations such as transportation, manufacturing, quality control, purchasing, sales, and returns.



OPERATIONAL
INNOVATION

Implement a unified and intelligent production lifecycle.

Mixed mode manufacturing

Production lifecycle

IoT intelligence

Asset management

Manufacturing execution

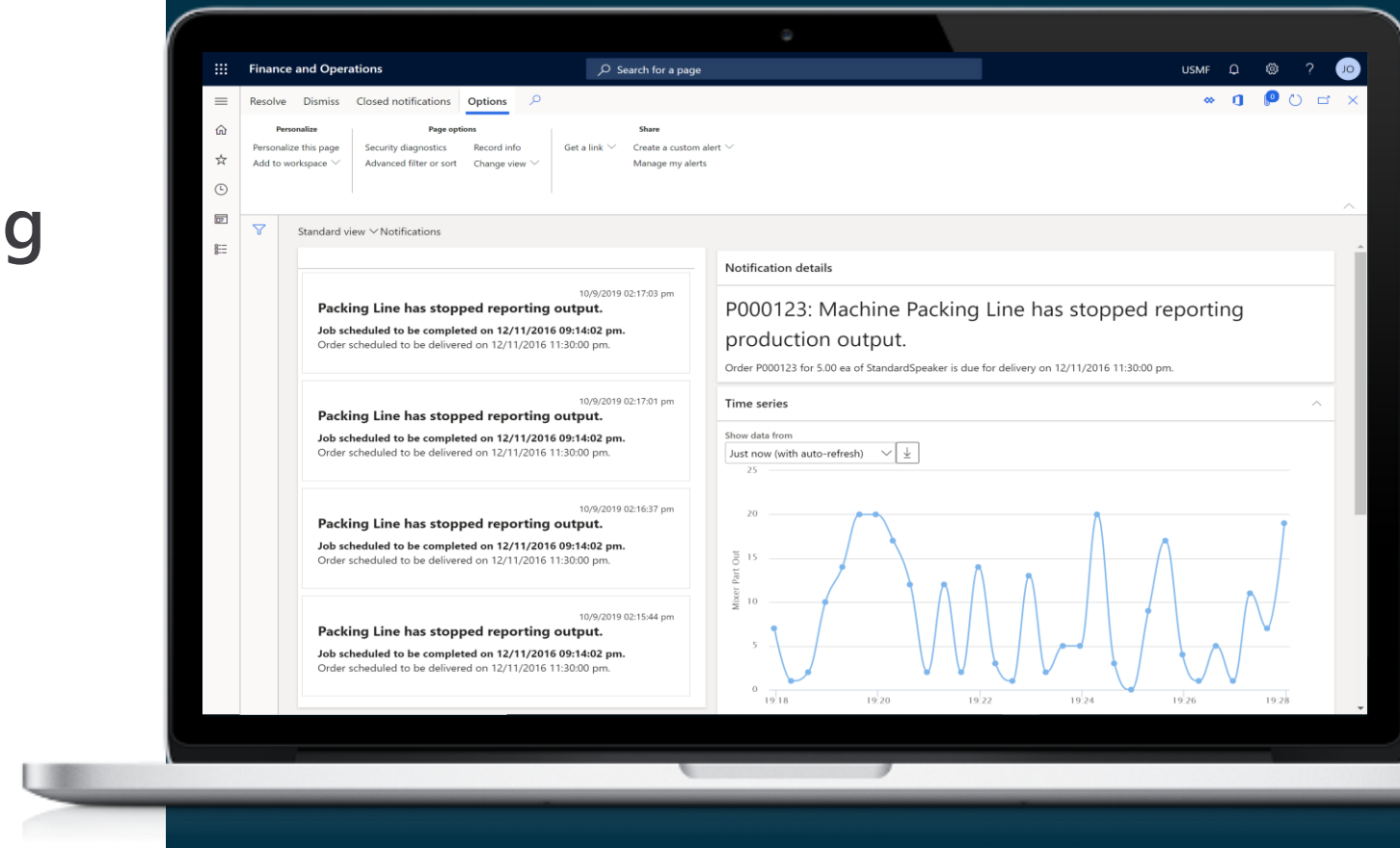
Master planning

OPERATIONAL INNOVATION

Implement a unified and intelligent production lifecycle.

Mixed mode manufacturing

- Create best-fit manufacturing processes that address all needs with a single solution.
  - **Production order:** A classic order type used to produce a predetermined quantity of a product on a specific date.
  - **Batch order:** A formula-based order used for process industries and discrete processes.
  - **Kanban:** Used to signal repetitive and lean manufacturing processes.
  - **Project:** Used to assign a schedule and budget to specific products and services.

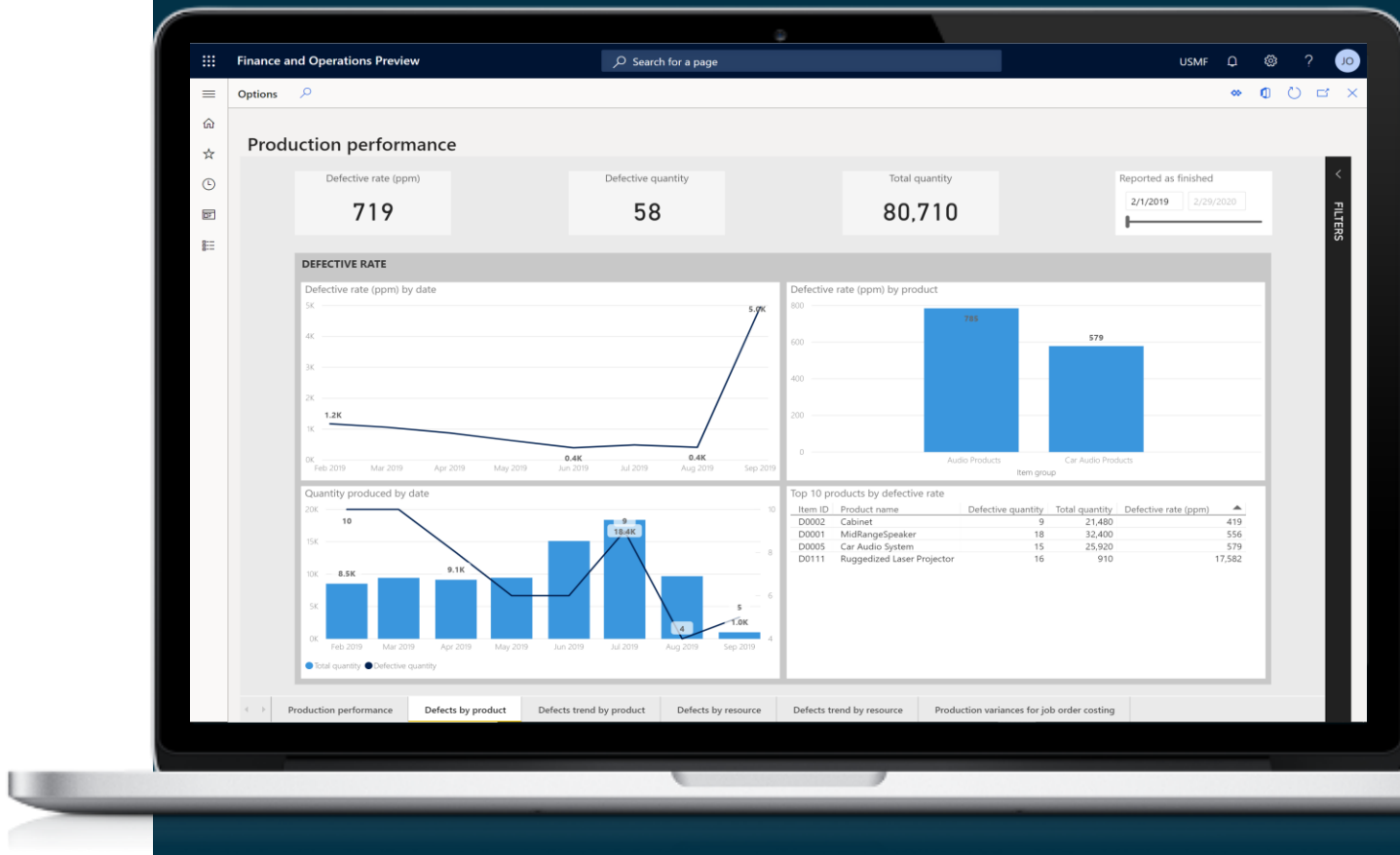


OPERATIONAL INNOVATION

Implement a unified and intelligent production lifecycle.

Production lifecycle

- Manage the steps required to manufacture products—from creation to when a product is ready for shipment.
- Integrate with production control modules to improve accuracy and efficiency of production, planning, and reporting.

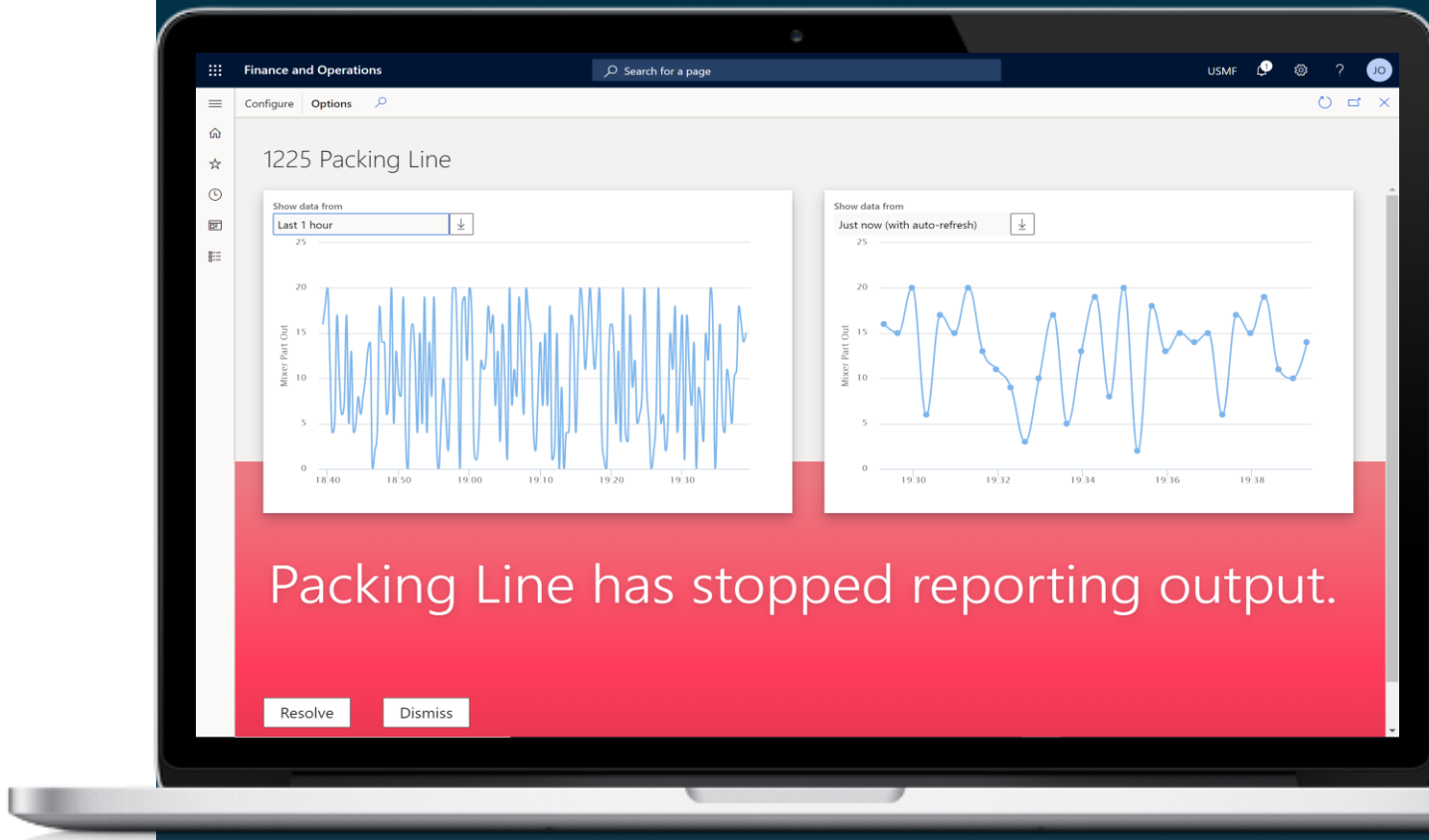


OPERATIONAL INNOVATION

Implement a unified and intelligent production lifecycle.

IoT intelligence

- Get real-time visibility of production and inventory with an end-to-end solution that uses machine learning and mixed reality.
- Connect mission-critical assets with business transaction data and make it possible to proactively manage production and stock in real time.
- Avoid downtime by using predictive analytics that determine maintenance needs for business-critical equipment.
- Take advantage of IoT machines and devices that create a digital feedback loop and provide real-time information, using business data from the shop floor to generate business events and actionable insights.

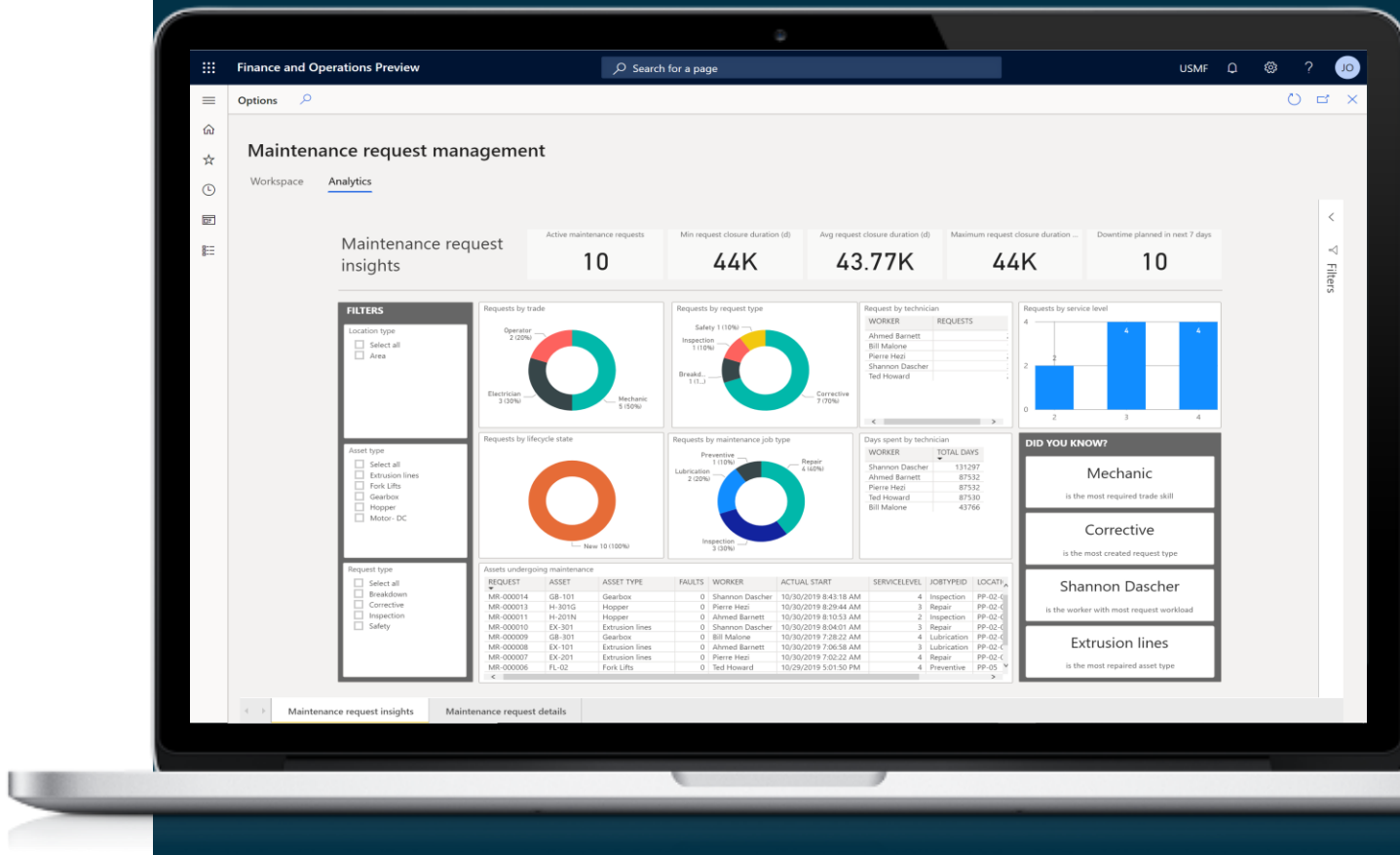


OPERATIONAL INNOVATION

Implement a unified and intelligent production lifecycle.

Asset management

- Enable customers to track the total cost of ownership for operations assets and to manage ongoing maintenance for those assets.
- Manage the full lifecycle for an asset while keeping track of asset locations and hierarchies.
- Use preventive maintenance to track, manage, and monitor assets based on the manufacturer's recommendations.
- Plan—automatically or manually—using key parameters such as worker capacity, availability, or work order criticality.
- Track spare parts to effectively manage inventory.

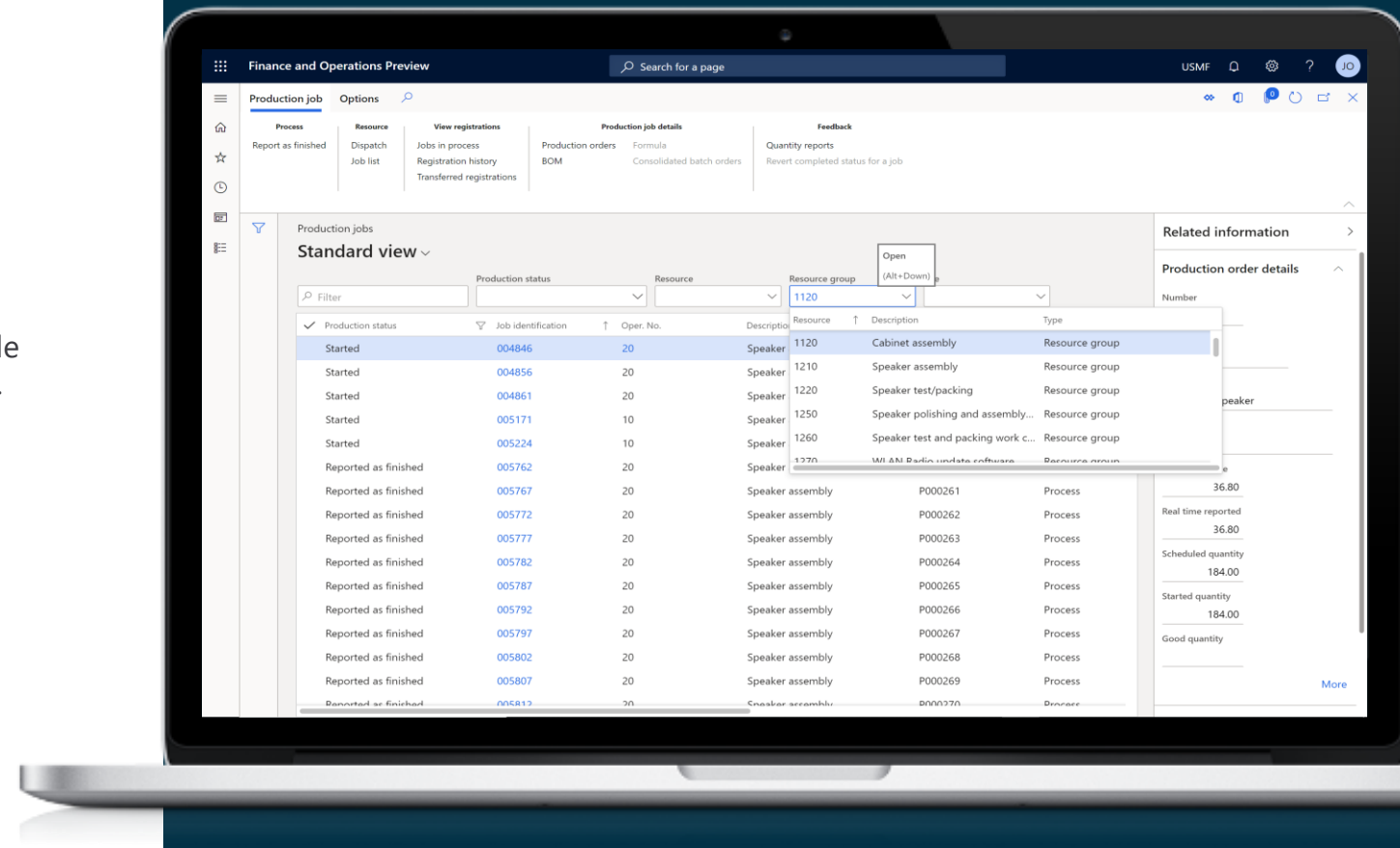


OPERATIONAL INNOVATION

Implement a unified and intelligent production lifecycle.

Manufacturing execution

- Get immediate insight and make it easier to instruct and guide workers with the information they need to perform their jobs.
- Use the job registration page and allow workers to register time and item consumption for production jobs.
- Allow managers to easily track production order costs with continuous registration approvals and transfers.
- Register and track project activities and nonproductive tasks.

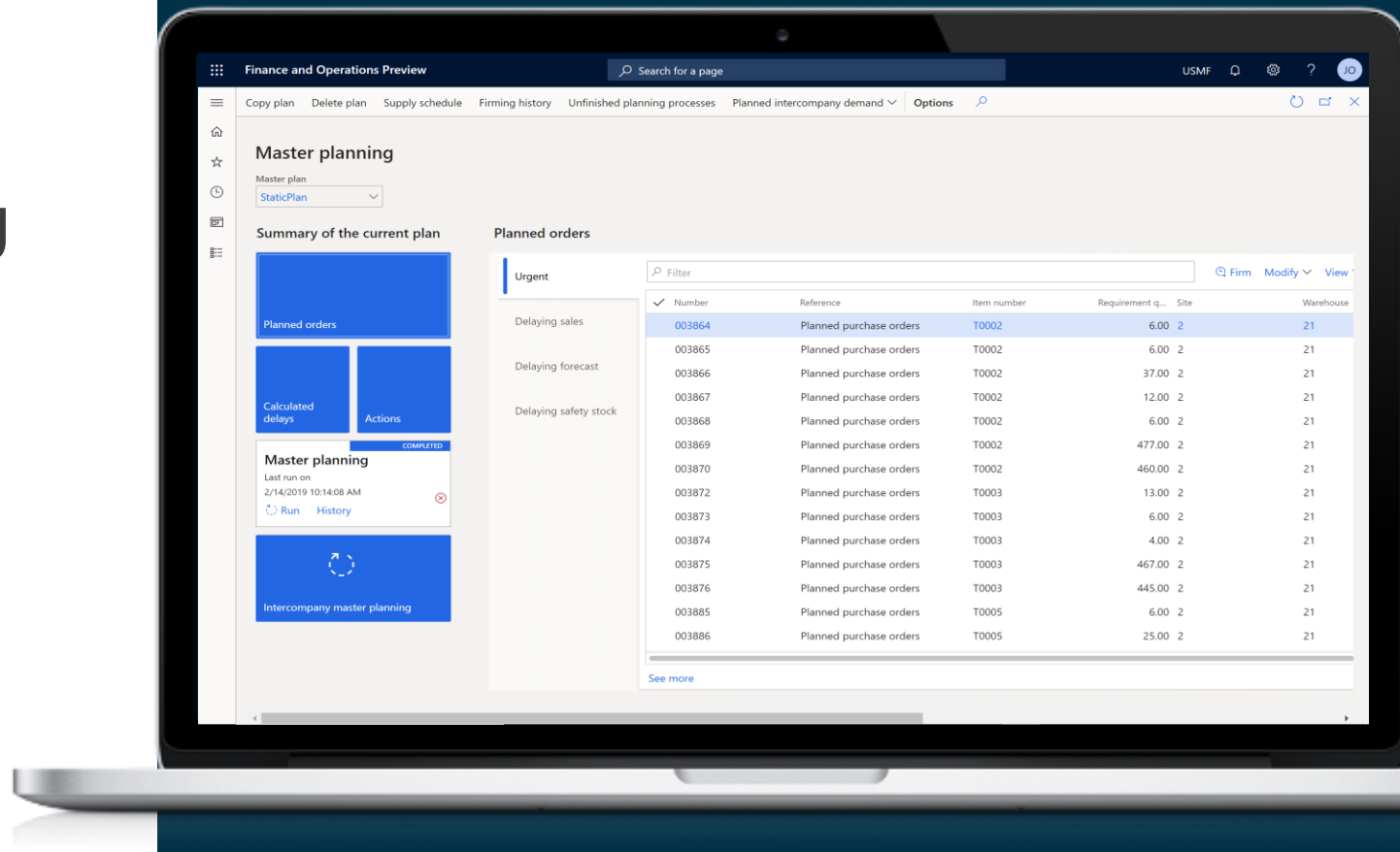


OPERATIONAL INNOVATION

Implement a unified and intelligent production lifecycle.

Master planning / Planning optimization

- Determine the material and resource needs that meet current demand.
- Forecast delivery dates using operations or bottleneck scheduling.
- Develop master plan policies to better manage day-to-day operations.
- Manage resource planning across multiple functions.
- Leverage the power of Azure to rapidly complete re-planning on a near real-time basis



Microsoft Dynamics 365

Next steps

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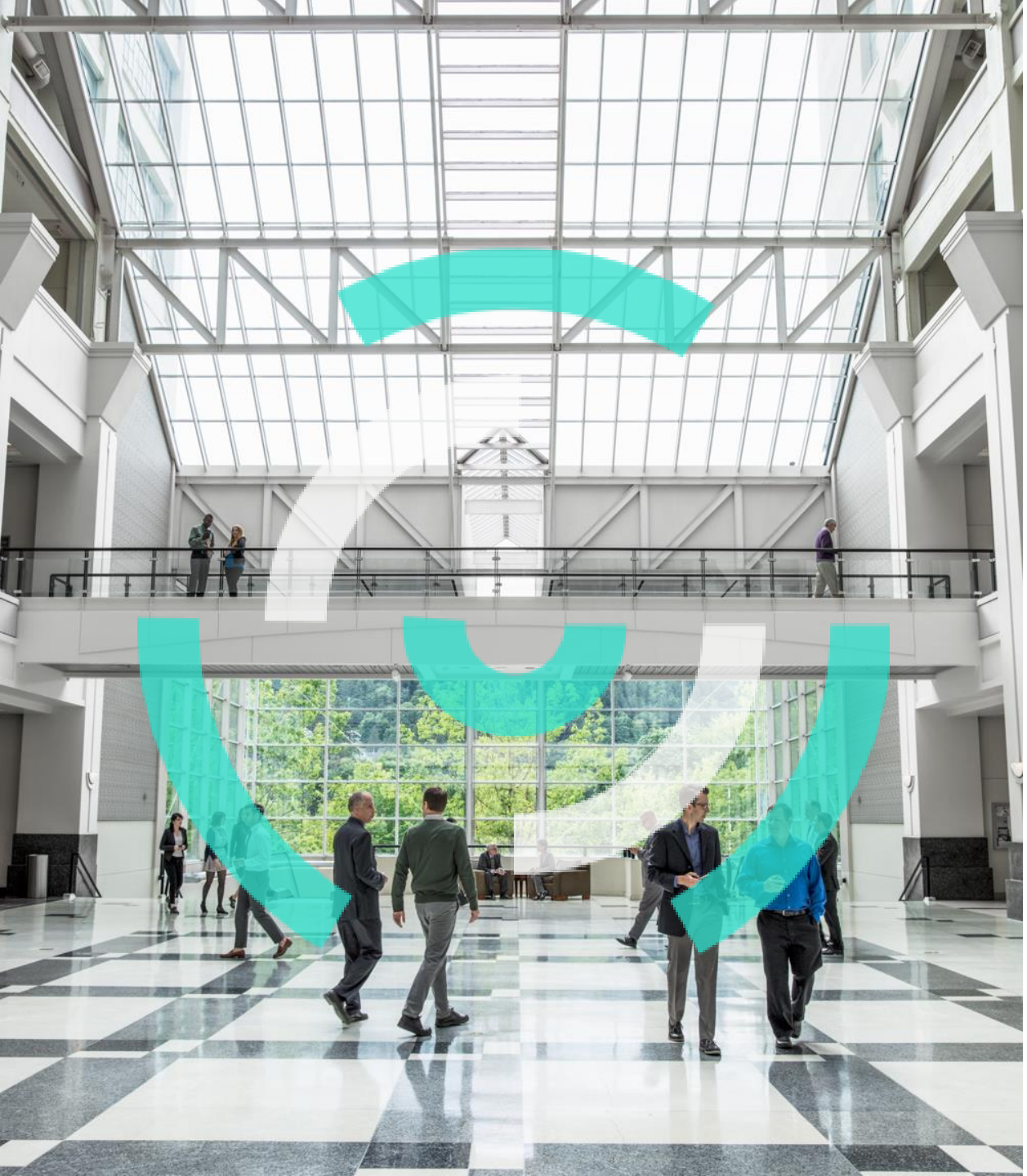

Take the next step

Get started with Dynamics 365 Supply Chain Management—empower your digital transformation by applying intelligence and connecting your data.

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