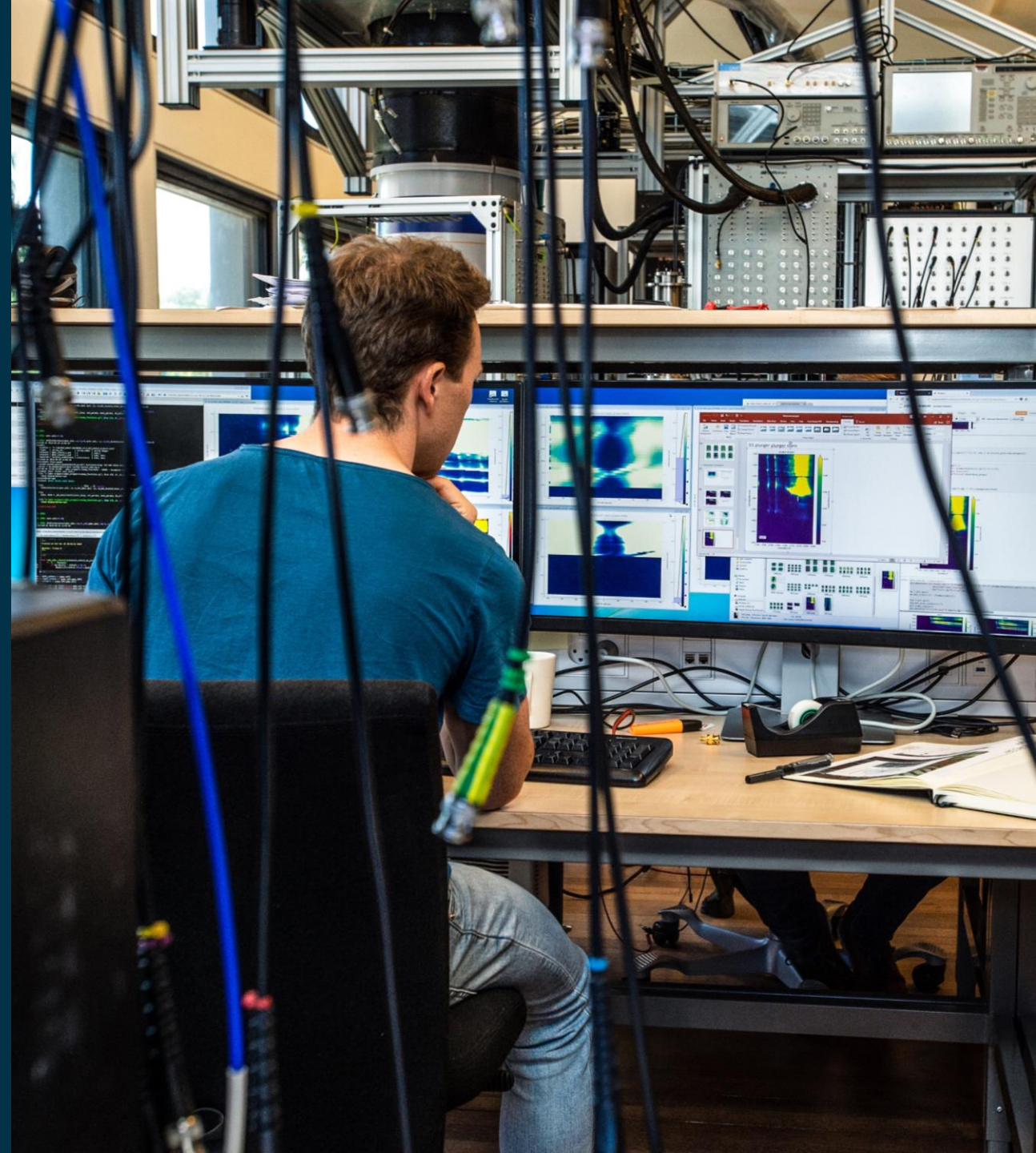


Supply chain management



Do your systems
enable supply chain
innovation?





The world's connected AI business cloud



Dynamics 365 & Power Platform

CONCERNS AND CONSIDERATIONS

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?



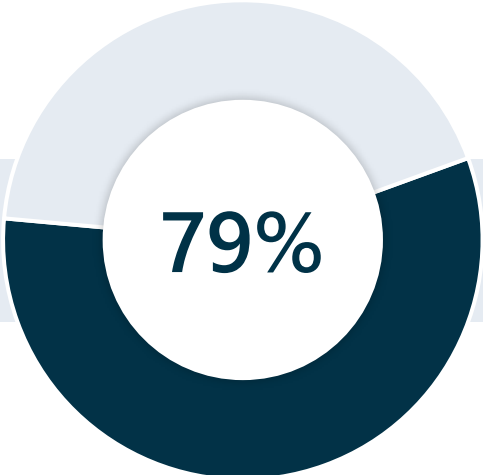
Do you have the technology and tools you need to support your business?



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



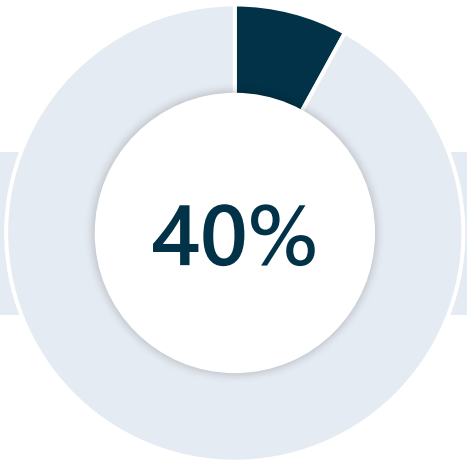
Better tools for modern supply chain management



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.

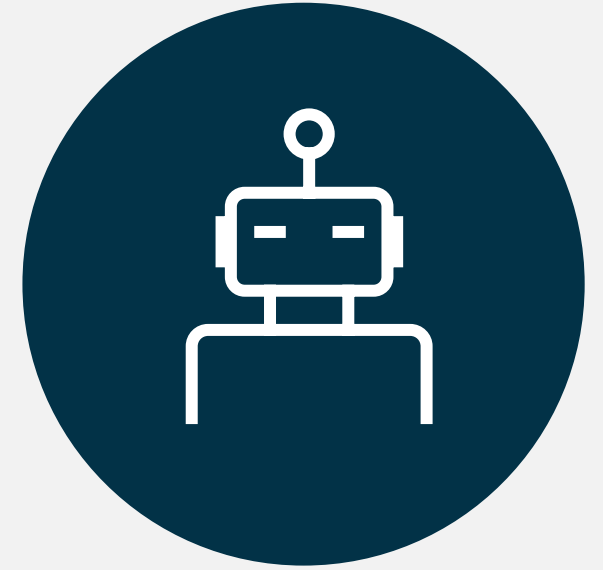
Typical supply chain management concerns



Lack of real-time intelligence and insights

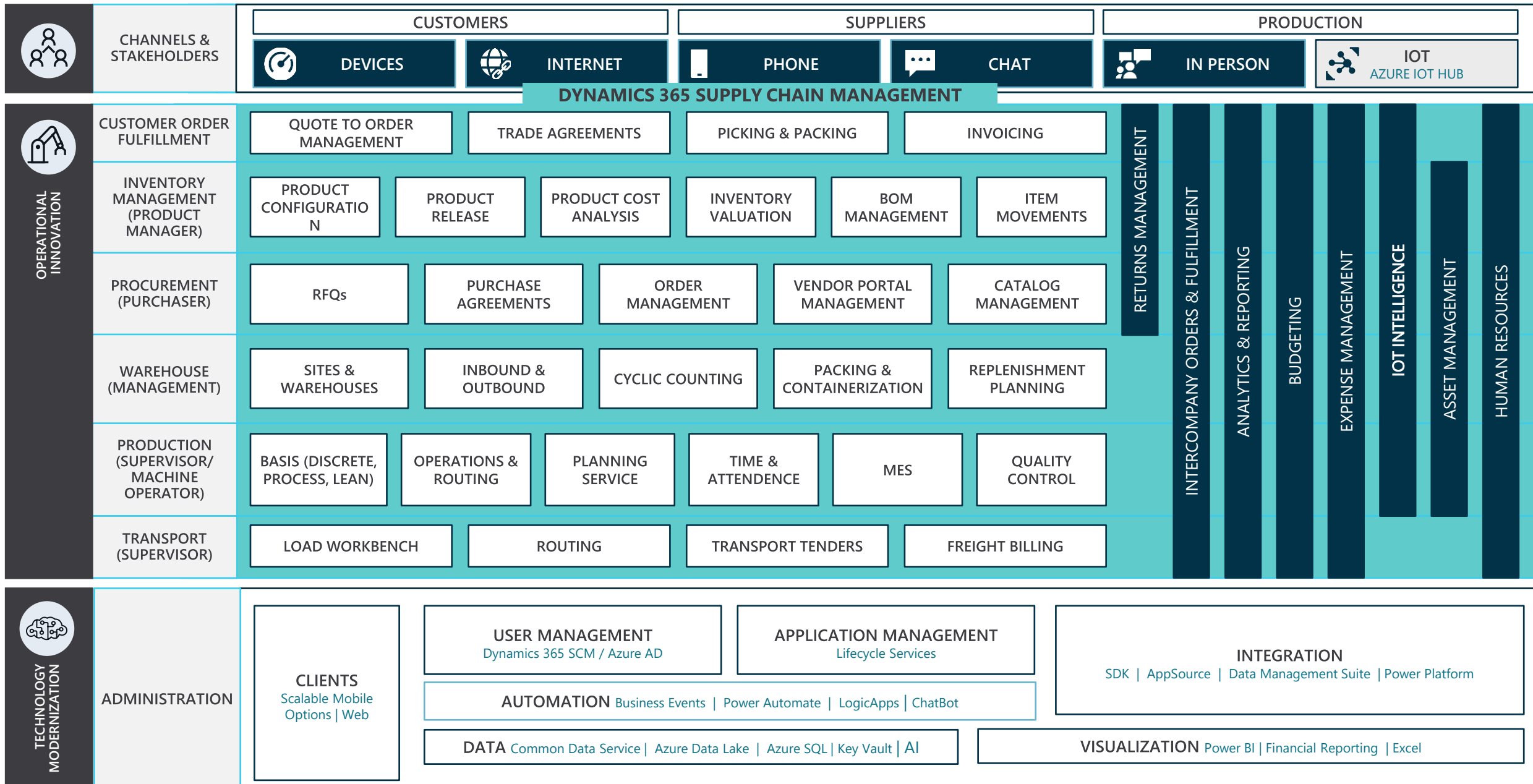


Difficulty meeting customer expectations, demands, and timelines



Limited flexibility to add new and innovative capabilities

Microsoft ecosystem supporting intelligent supply chain management

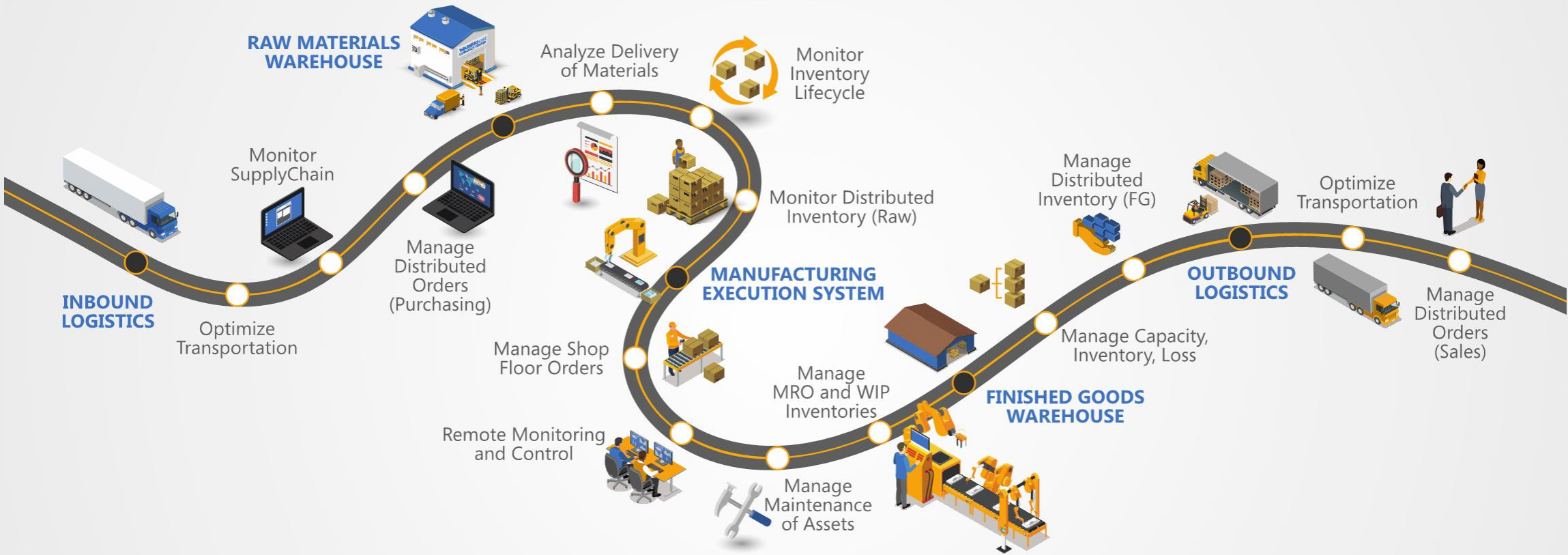




Operational innovation

- 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



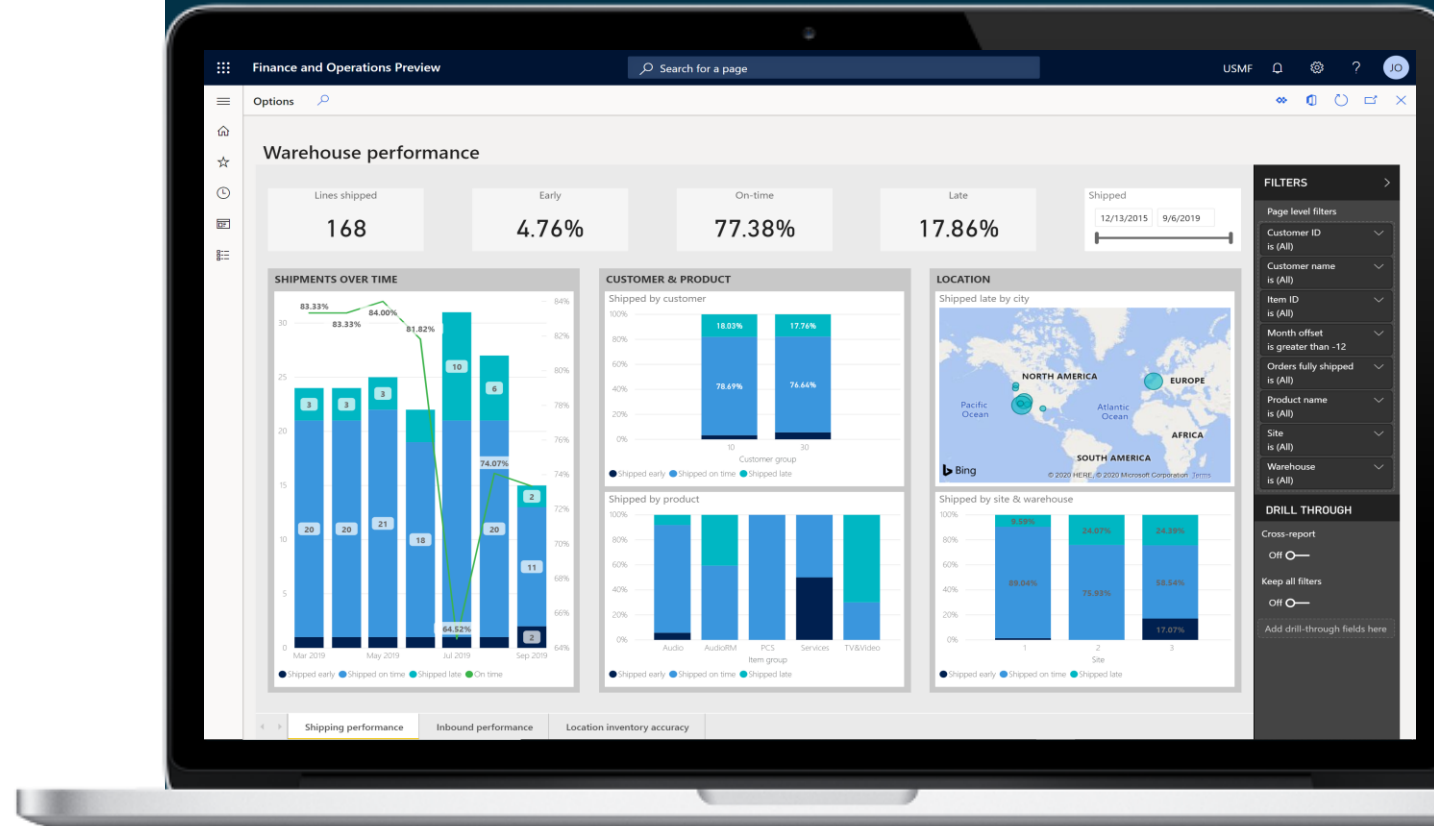
OPERATIONAL
INNOVATION

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 fulfillment of sales and purchase agreements.
- Improve efficiency with Increased visibility and insight into supply chain



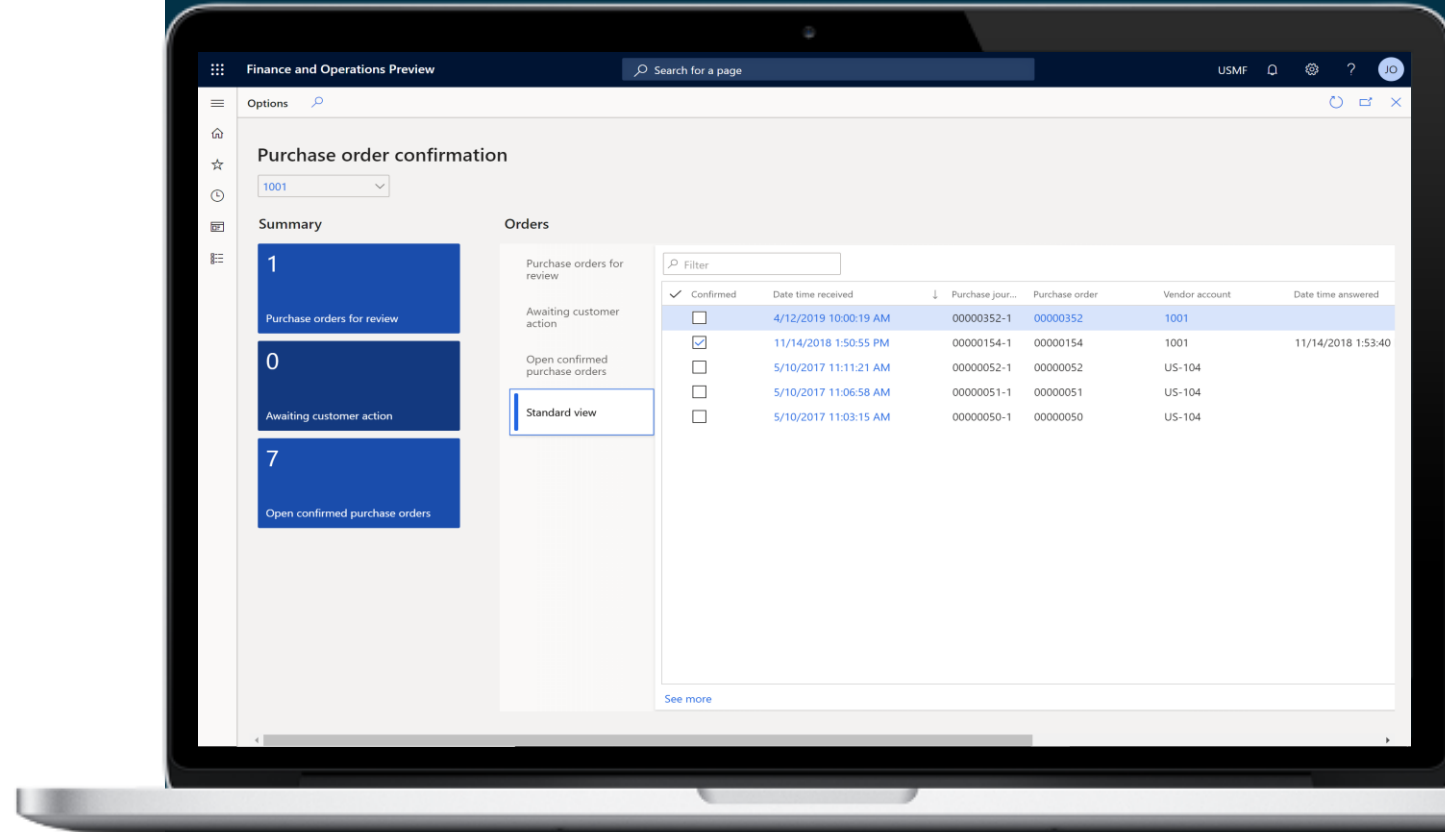


OPERATIONAL
INNOVATION

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.





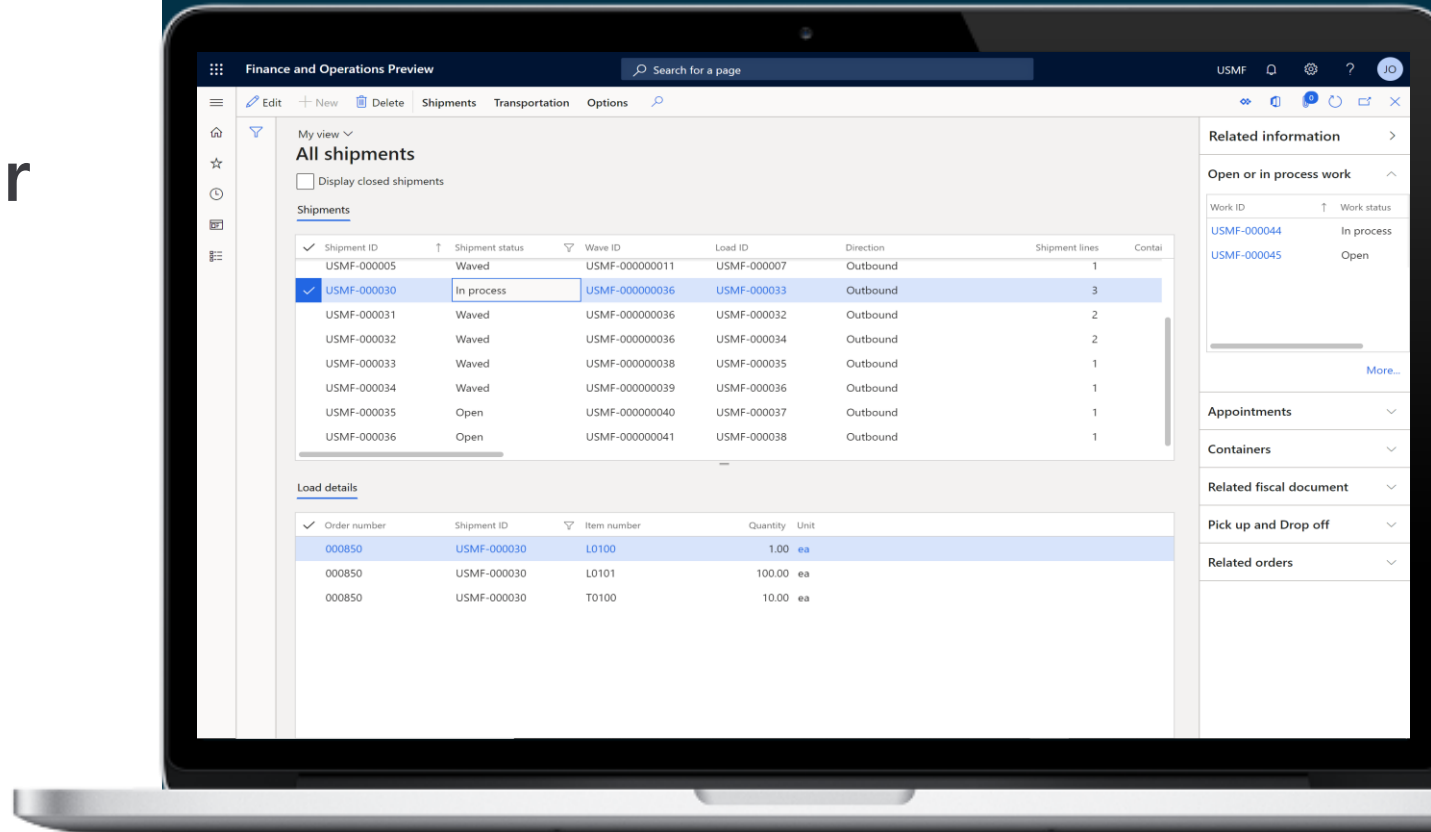
OPERATIONAL
INNOVATION

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.

The screenshot displays the SAP Finance and Operations Preview interface for item D0004. The page is titled "On-hand details" and shows various inventory metrics and dimensions.

ITEM	INVENTORY VALUE	PHYSICAL INVENTORY	SHELF LIFE AS OF DATE
Item number D0004	Physical cost amount -23,512.95	POSTED QUANTITY 23.00	Manufacturing date
Product name HighEndSpeaker	Financial cost amount 24,581.73	DEDUCTED 22.00	Shelf advice date
Configuration 000005	Cost price 1,068.77	PICKED	Best before date
Site 1	ON-HAND	REGISTERED	Expiration date
UNITS	PHYSICAL INVENTORY 1.00	ORDERED IN TOTAL QUANTITY	
Show Inventory unit	PHYSICAL RESERVED	ARRIVED	
Unit ea	AVAILABLE PHYSICAL	ORDERED 218.00	
CW unit	ORDERED IN TOTAL 218.00	VARIOUS	
	ORDERED RESERVED 218.00	ON ORDER 2.00	
	AVAILABLE FOR RESERVATION 1.00	QUOTATION RECEIPT	
	ON ORDER IN TOTAL 2.00	QUOTATION ISSUE	
	TOTAL AVAILABLE -1.00		
	PHYSICAL NON-NETTABLE		
	PHYSICAL EXPIRED		
	ADJUSTED TOTAL -1.00		



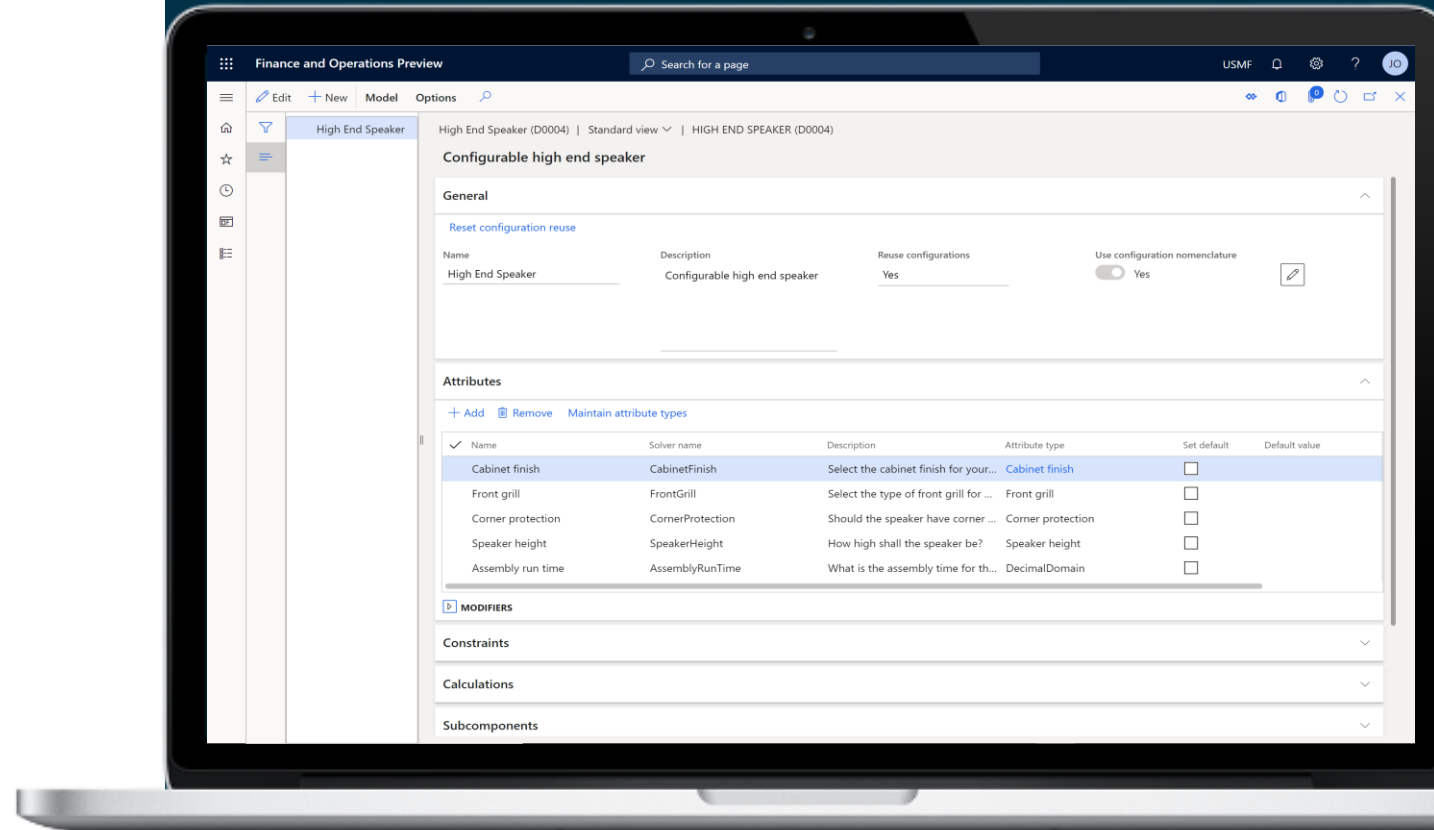
OPERATIONAL
INNOVATION

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.



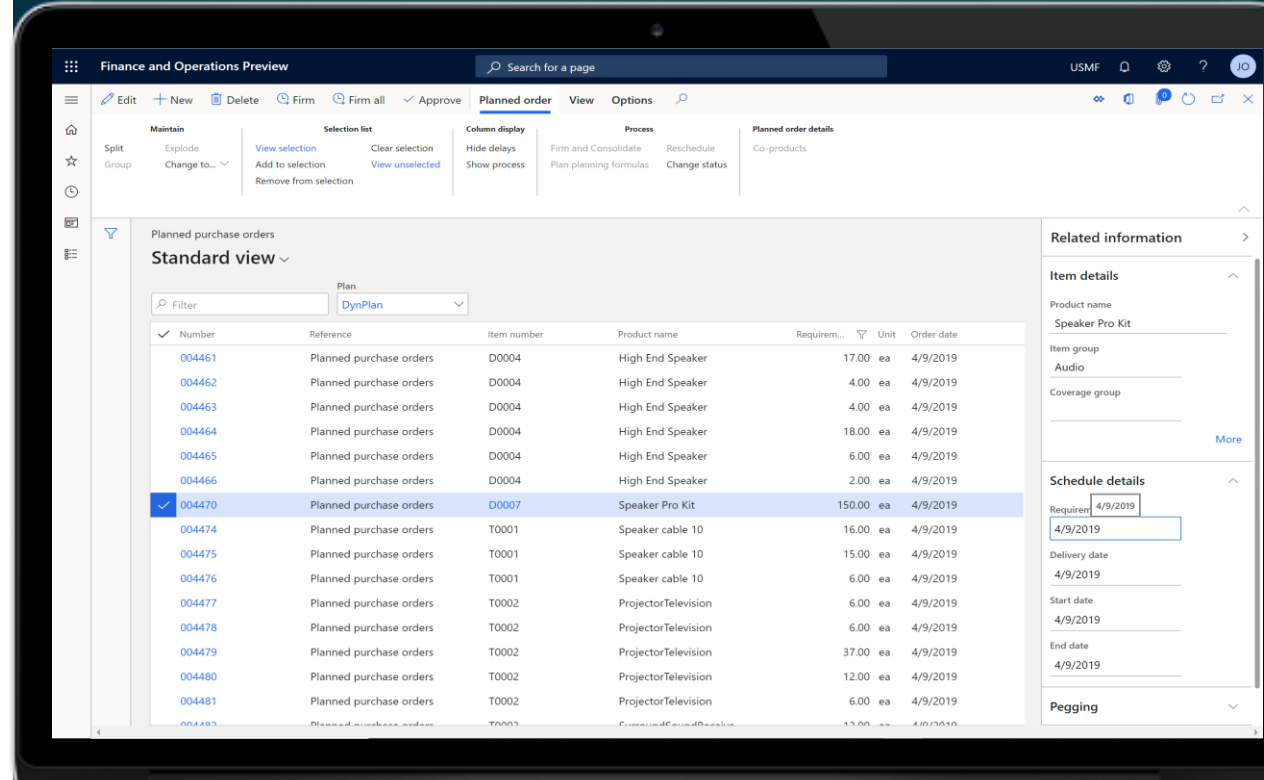


OPERATIONAL
INNOVATION

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.



Finance and Operations Preview

Search for a page

USMF

Planned order View Options

Maintain Selection list Column display Process Planned order details

Split Explode View selection Clear selection Hide delays Firm and Consolidate Reschedule
Group Change to... Add to selection View unselected Show process Plan planning formulas Change status
Remove from selection

Planned purchase orders

Standard view

Filter DynPlan

Number	Reference	Item number	Product name	Requirem...	Unit	Order date
004461	Planned purchase orders	D0004	High End Speaker	17.00	ea	4/9/2019
004462	Planned purchase orders	D0004	High End Speaker	4.00	ea	4/9/2019
004463	Planned purchase orders	D0004	High End Speaker	4.00	ea	4/9/2019
004464	Planned purchase orders	D0004	High End Speaker	18.00	ea	4/9/2019
004465	Planned purchase orders	D0004	High End Speaker	6.00	ea	4/9/2019
004466	Planned purchase orders	D0004	High End Speaker	2.00	ea	4/9/2019
004470	Planned purchase orders	D0007	Speaker Pro Kit	150.00	ea	4/9/2019
004474	Planned purchase orders	T0001	Speaker cable 10	16.00	ea	4/9/2019
004475	Planned purchase orders	T0001	Speaker cable 10	15.00	ea	4/9/2019
004476	Planned purchase orders	T0001	Speaker cable 10	6.00	ea	4/9/2019
004477	Planned purchase orders	T0002	ProjectorTelevision	6.00	ea	4/9/2019
004478	Planned purchase orders	T0002	ProjectorTelevision	6.00	ea	4/9/2019
004479	Planned purchase orders	T0002	ProjectorTelevision	37.00	ea	4/9/2019
004480	Planned purchase orders	T0002	ProjectorTelevision	12.00	ea	4/9/2019
004481	Planned purchase orders	T0002	ProjectorTelevision	6.00	ea	4/9/2019
004483	Planned purchase orders	T0002	ProjectorTelevision	13.00	ea	4/9/2019

Related information

Item details

Product name
Speaker Pro Kit

Item group
Audio

Coverage group

More

Schedule details

Required 4/9/2019

4/9/2019

Delivery date
4/9/2019

Start date
4/9/2019

End date
4/9/2019

Pegging



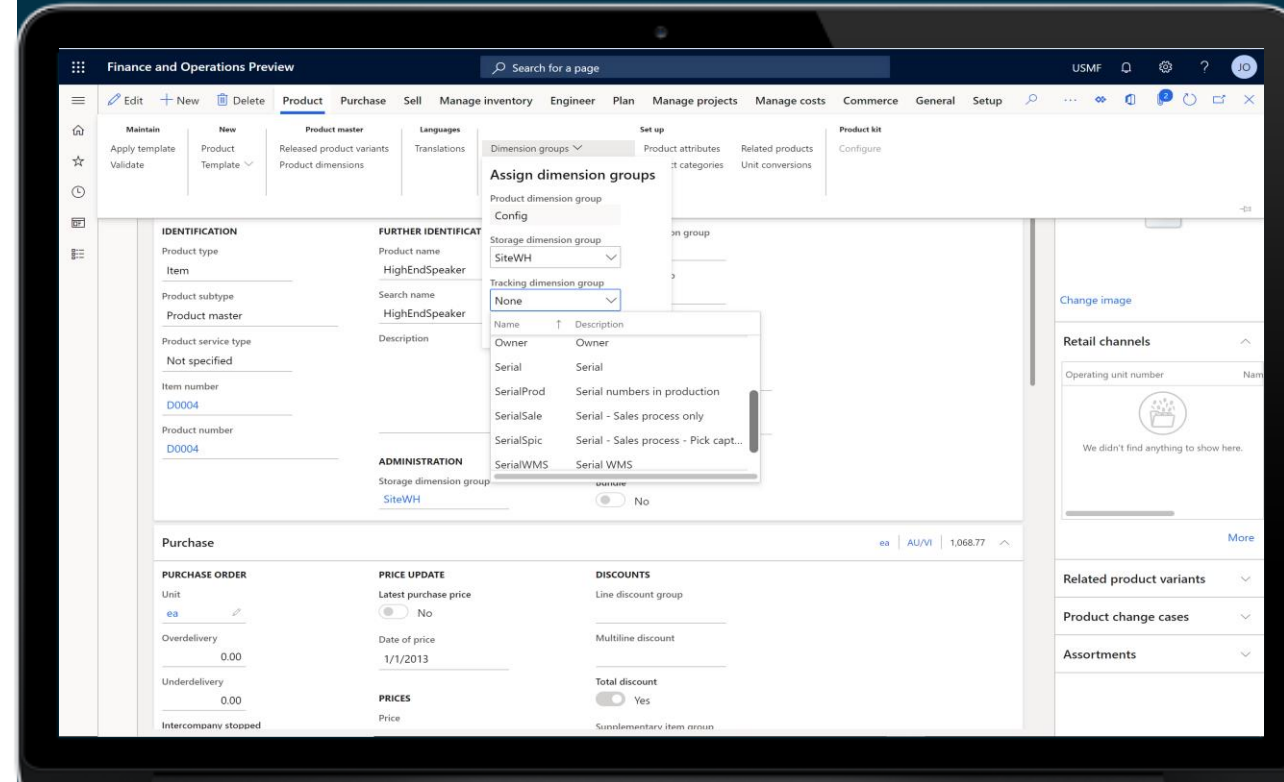
OPERATIONAL
INNOVATION

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



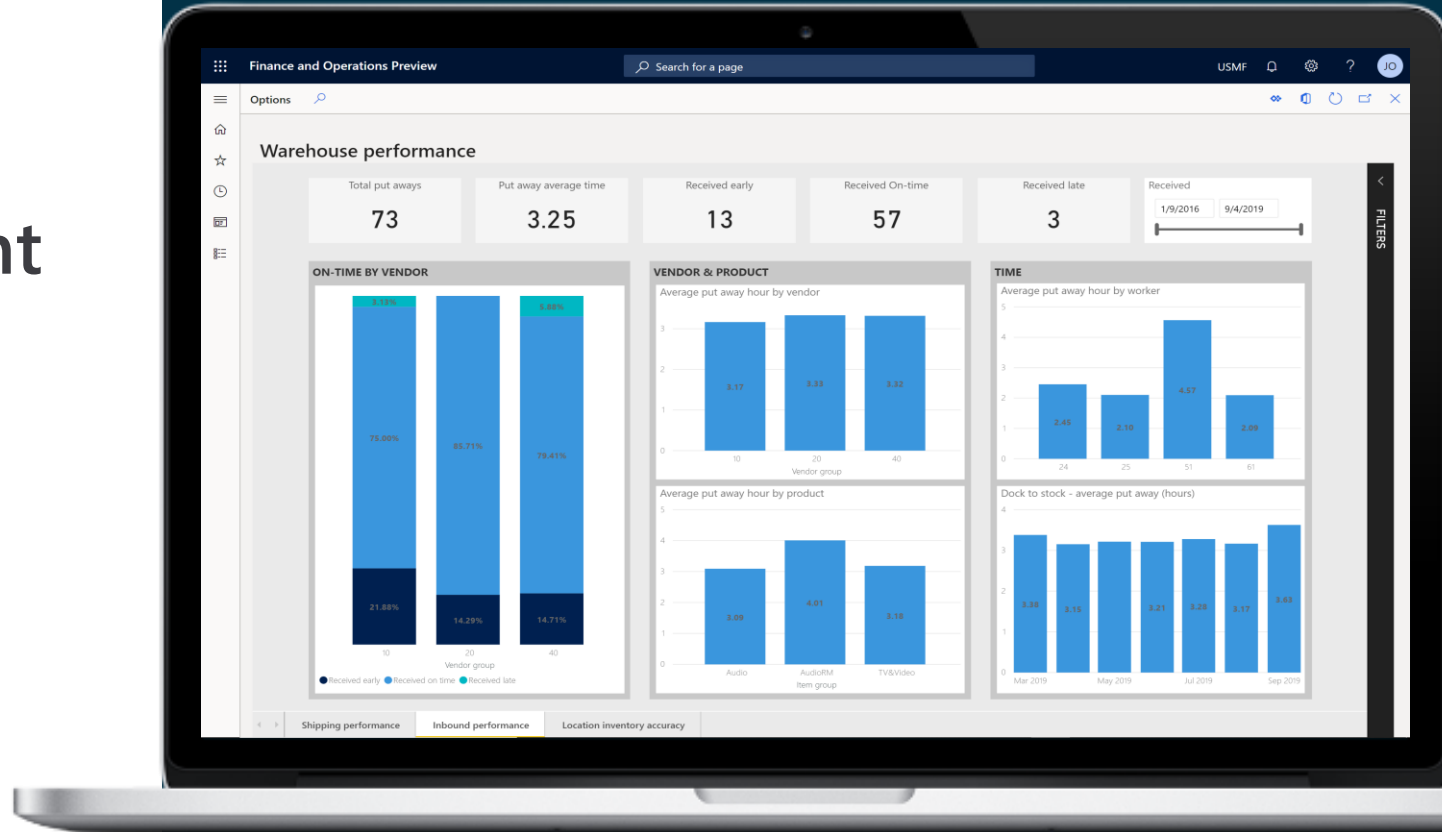
OPERATIONAL
INNOVATION

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.





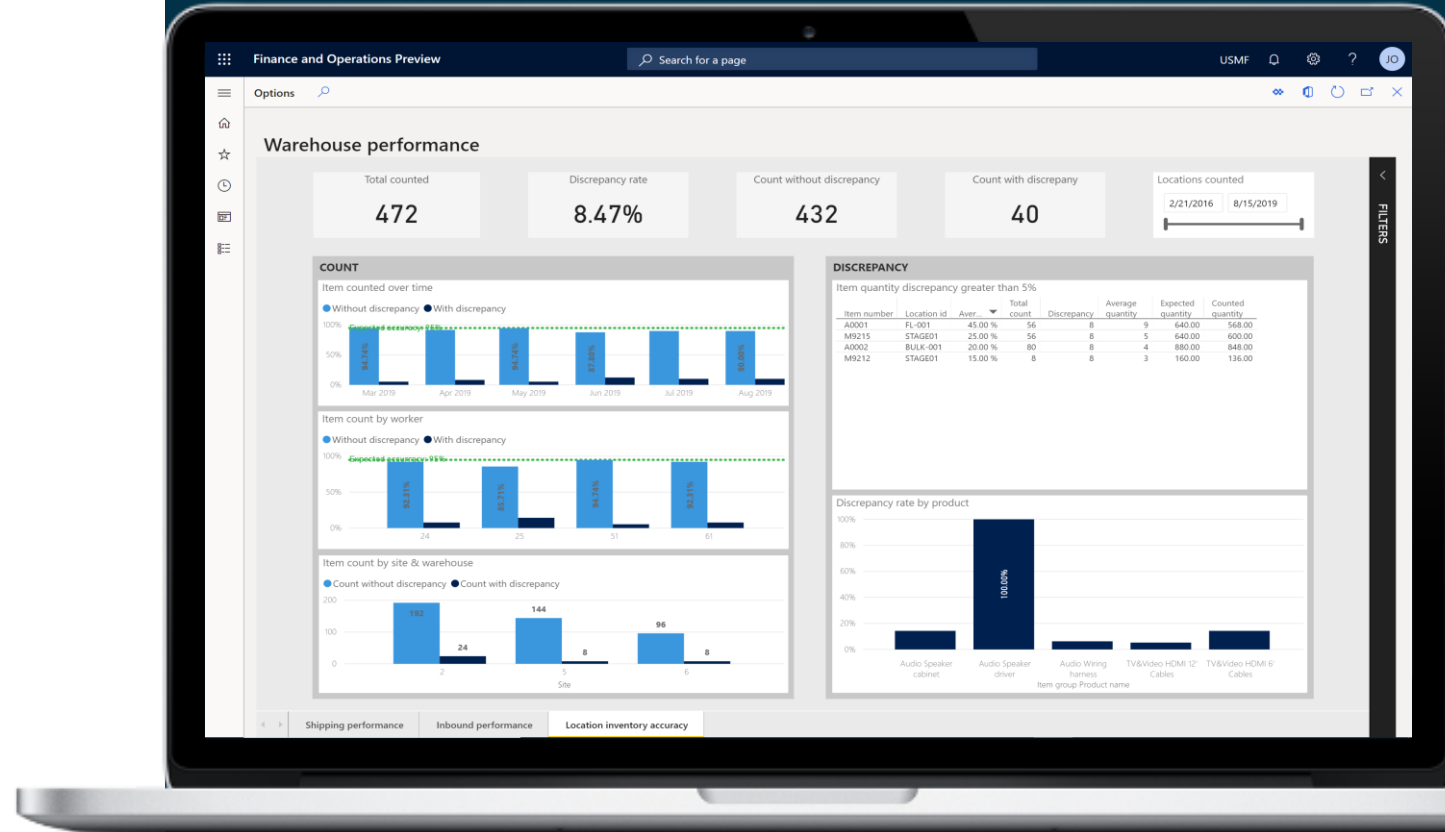
OPERATIONAL
INNOVATION

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



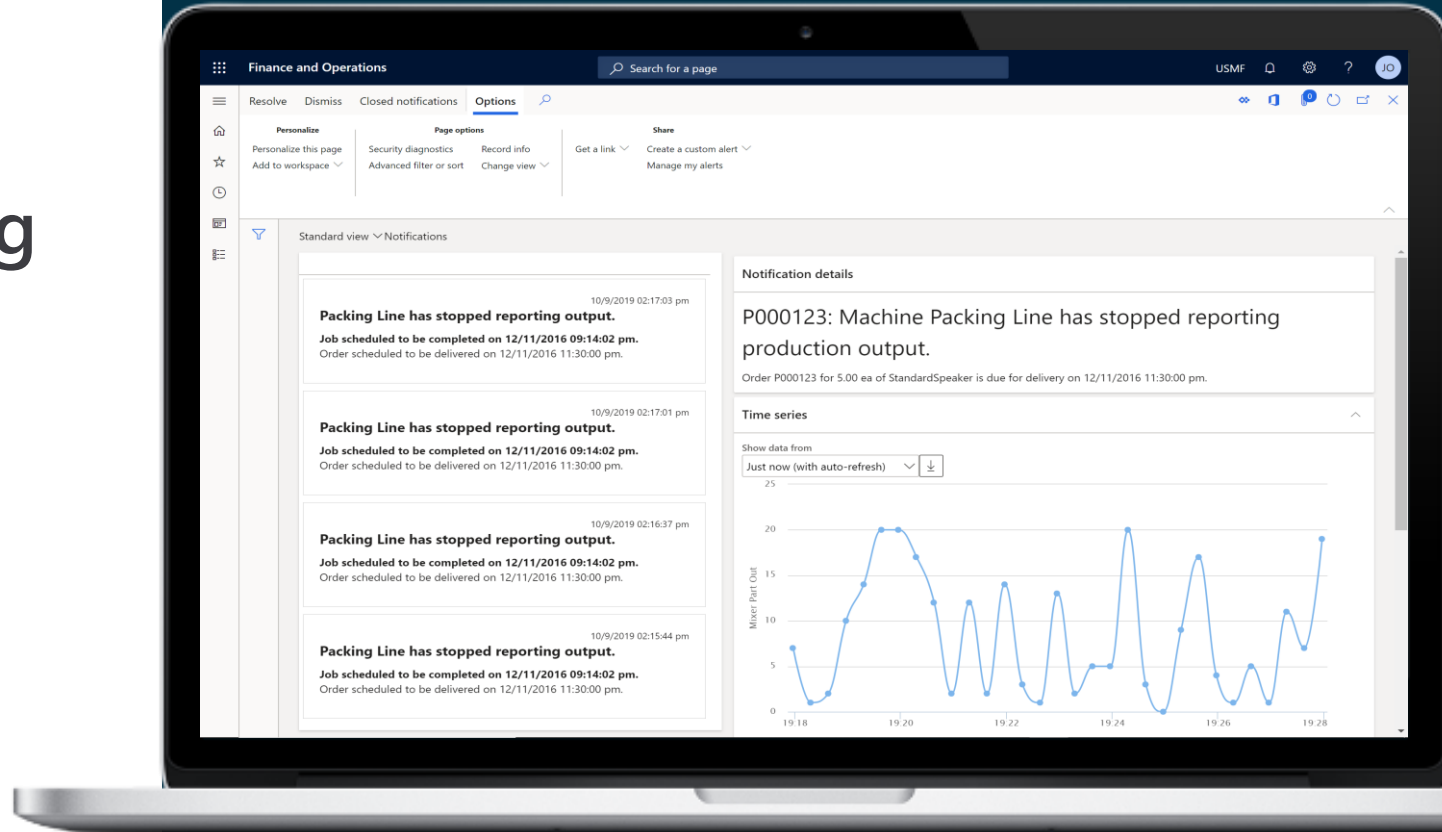
OPERATIONAL
INNOVATION

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.





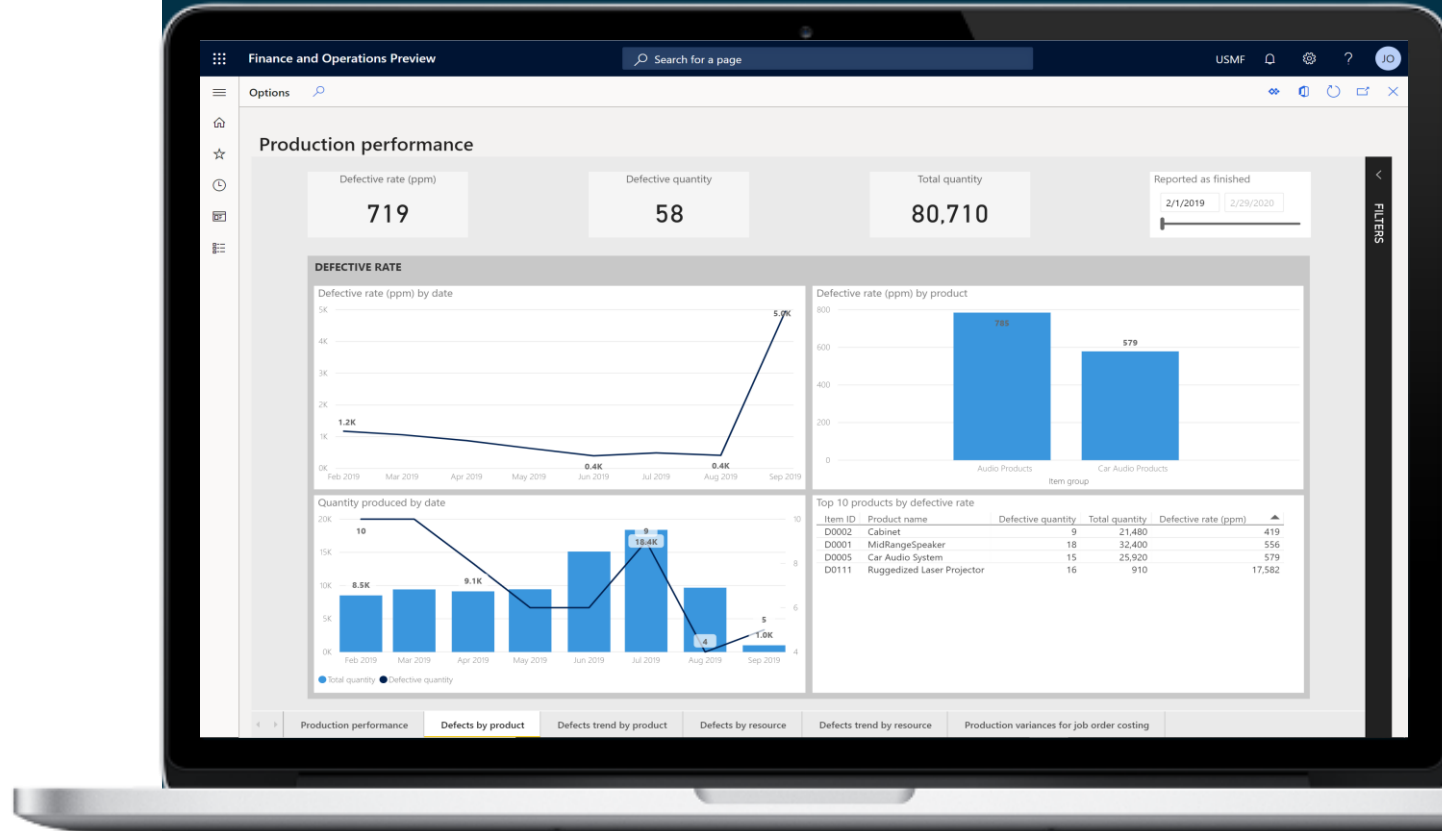
OPERATIONAL
INNOVATION

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.





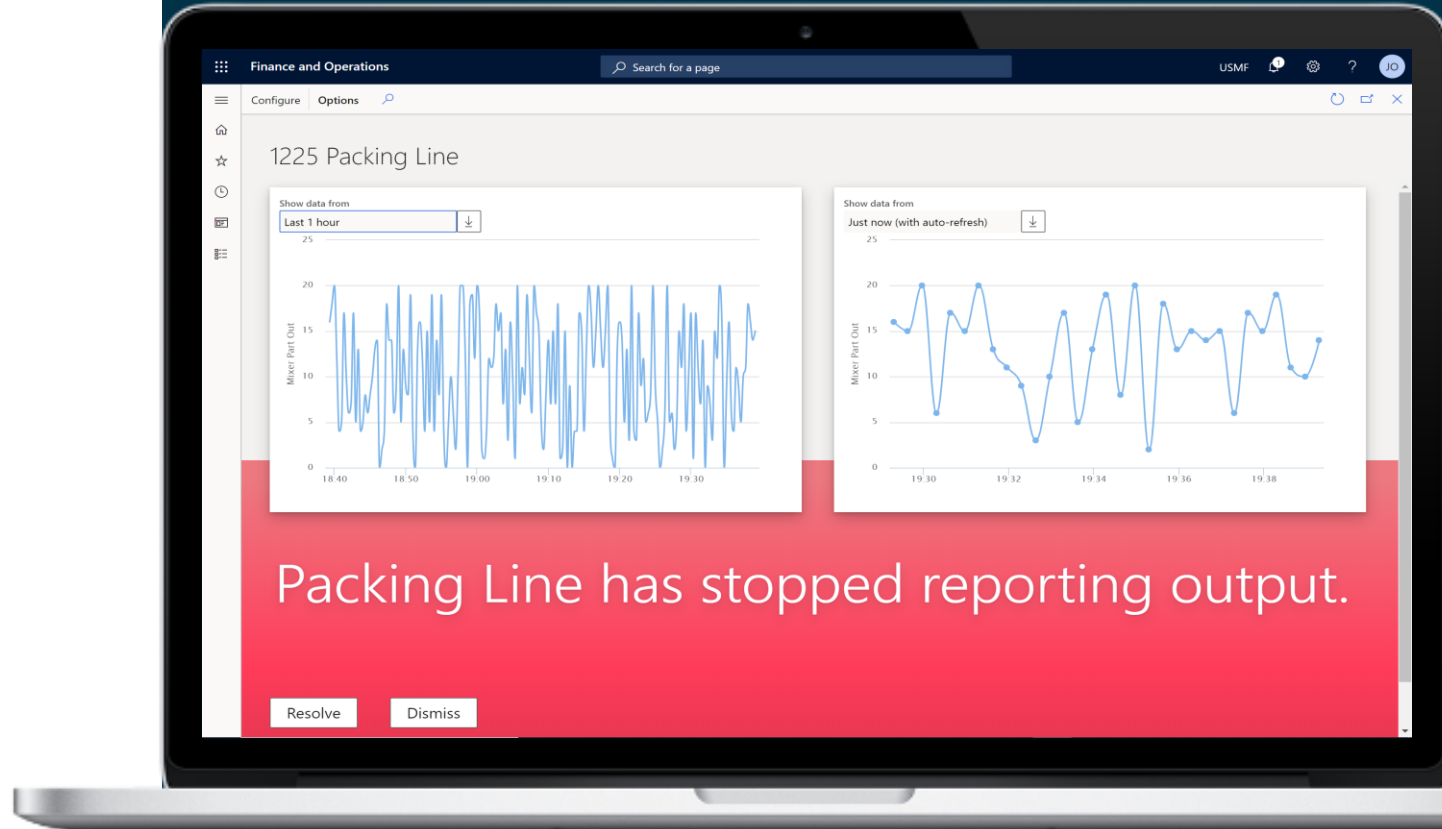
OPERATIONAL
INNOVATION

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.





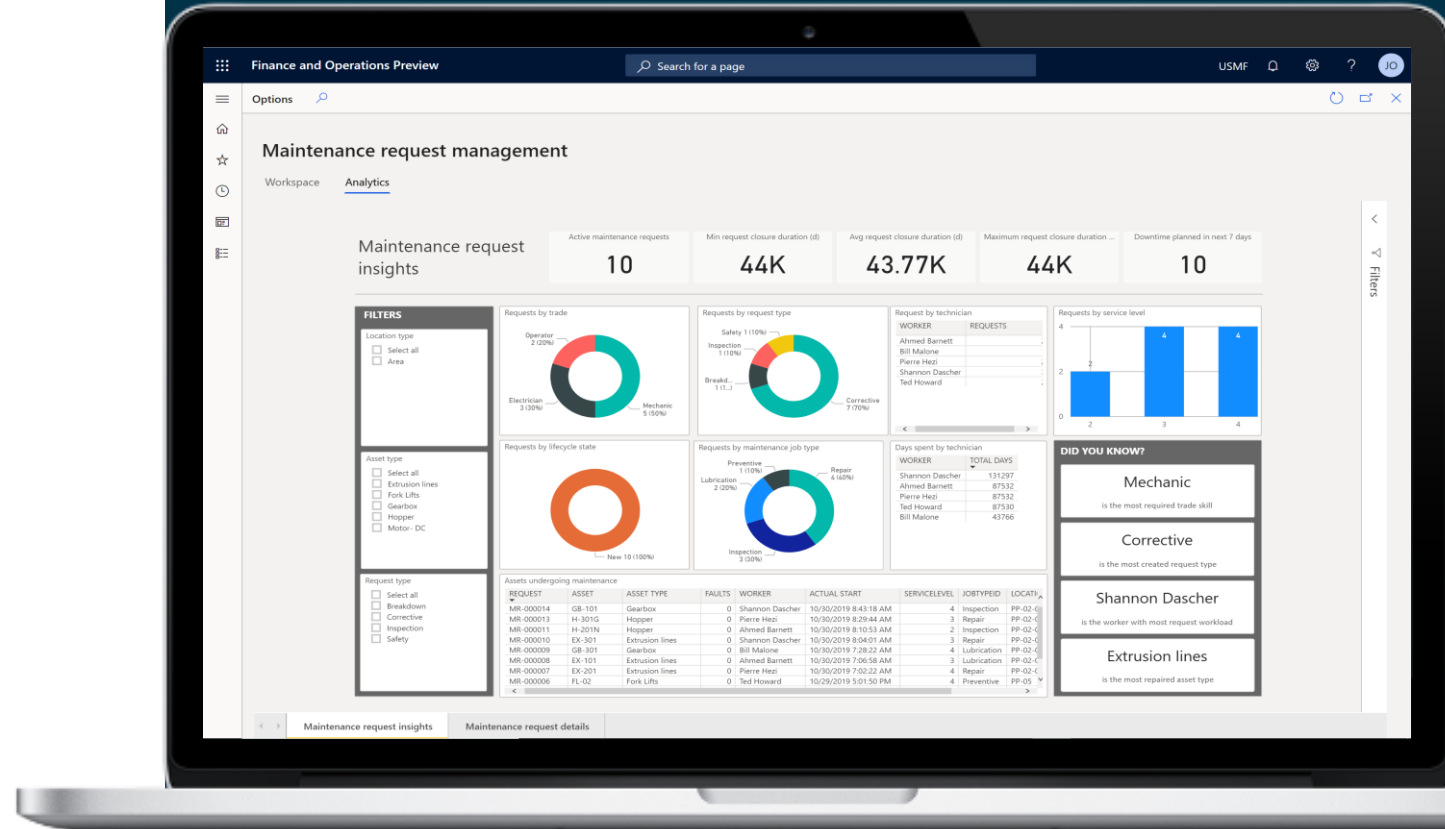
OPERATIONAL
INNOVATION

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.

The screenshot displays the 'Production jobs' section in a 'Standard view'. The table lists various production jobs with their status, job ID, operation number, and description. A dropdown menu is open for the 'Resource' column, showing a list of resource groups. The 'Related information' pane on the right shows production order details, including 'Real time reported' and 'Scheduled quantity'.

Production status	Job identification	Oper. No.	Description	Resource	Description	Type
Started	004846	20	Speaker	1120	Cabinet assembly	Resource group
Started	004856	20	Speaker	1210	Speaker assembly	Resource group
Started	004861	20	Speaker	1220	Speaker test/packing	Resource group
Started	005171	10	Speaker	1250	Speaker polishing and assembly...	Resource group
Started	005224	10	Speaker	1260	Speaker test and packing work c...	Resource group
Reported as finished	005762	20	Speaker	1270	Speaker test and packing work c...	Resource group
Reported as finished	005767	20	Speaker assembly	P000261		Process
Reported as finished	005772	20	Speaker assembly	P000262		Process
Reported as finished	005777	20	Speaker assembly	P000263		Process
Reported as finished	005782	20	Speaker assembly	P000264		Process
Reported as finished	005787	20	Speaker assembly	P000265		Process
Reported as finished	005792	20	Speaker assembly	P000266		Process
Reported as finished	005797	20	Speaker assembly	P000267		Process
Reported as finished	005802	20	Speaker assembly	P000268		Process
Reported as finished	005807	20	Speaker assembly	P000269		Process
Reported as finished	005812	20	Speaker assembly	P000270		Process



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

The screenshot displays the 'Master planning' module in Dynamics 365. The top navigation bar includes 'Finance and Operations Preview', a search bar, and user information 'USMF'. The main content area is divided into several sections:

- Master planning:** A dropdown menu showing 'StaticPlan'.
- Summary of the current plan:** A dashboard with tiles for 'Planned orders', 'Calculated delays', and 'Actions'. Below these is a 'Master planning' status box indicating the last run on 2/14/2019 10:14:08 AM, with 'Run' and 'History' buttons.
- Planned orders:** A table with columns for Number, Reference, Item number, Requirement q..., Site, and Warehouse. The table lists various planned purchase orders.

Number	Reference	Item number	Requirement q...	Site	Warehouse
003864	Planned purchase orders	T0002	6.00	2	21
003865	Planned purchase orders	T0002	6.00	2	21
003866	Planned purchase orders	T0002	37.00	2	21
003867	Planned purchase orders	T0002	12.00	2	21
003868	Planned purchase orders	T0002	6.00	2	21
003869	Planned purchase orders	T0002	477.00	2	21
003870	Planned purchase orders	T0002	460.00	2	21
003872	Planned purchase orders	T0003	13.00	2	21
003873	Planned purchase orders	T0003	6.00	2	21
003874	Planned purchase orders	T0003	4.00	2	21
003875	Planned purchase orders	T0003	467.00	2	21
003876	Planned purchase orders	T0003	445.00	2	21
003885	Planned purchase orders	T0005	6.00	2	21
003886	Planned purchase orders	T0005	25.00	2	21

Next steps





Take the next step

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

[Contact us](#)



Microsoft Dynamics 365