

Priority based planning in D365 Supply Chain Management

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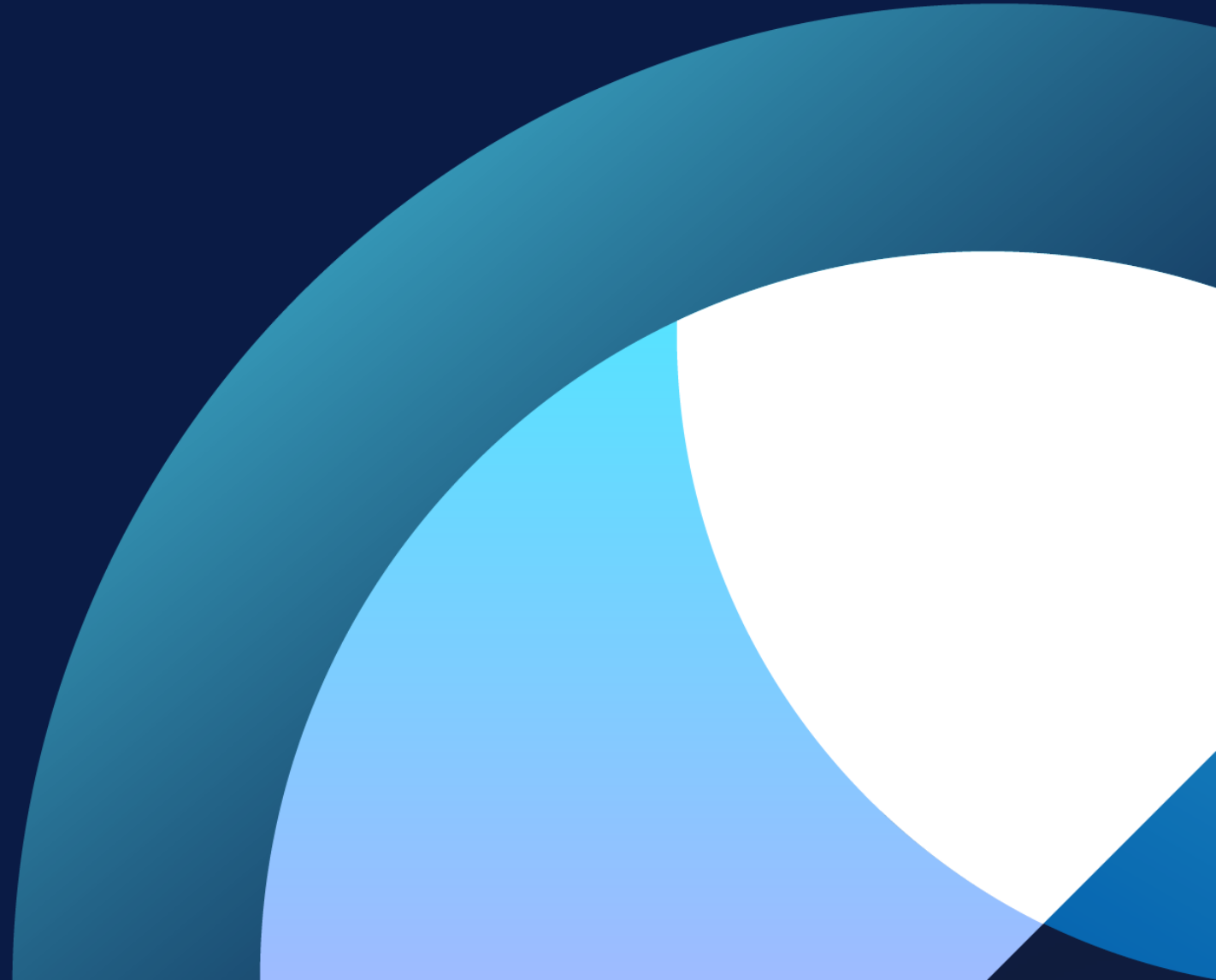
Zach Greenvoss, Principal Solution Architect



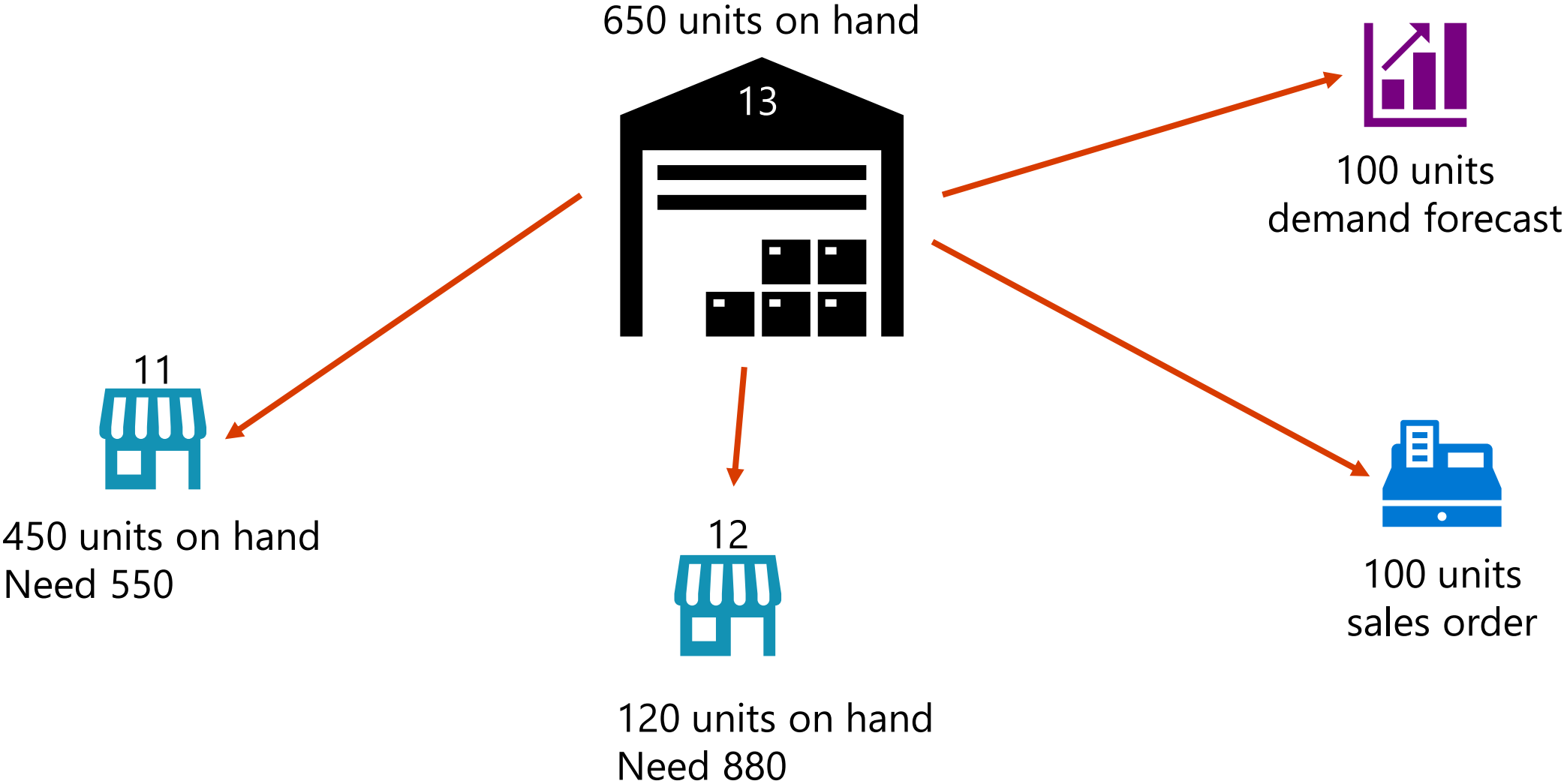
Agenda

- Introduction
- Set up priority based planning
- Priority calculation methods
- Notes
- Q&A

Introduction



Not all demand is created equal



Prioritize manual orders by order type



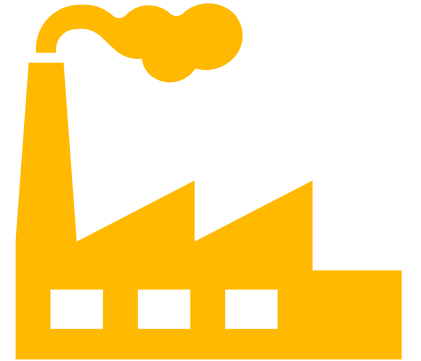
Sales order



Demand forecast



Transfer order



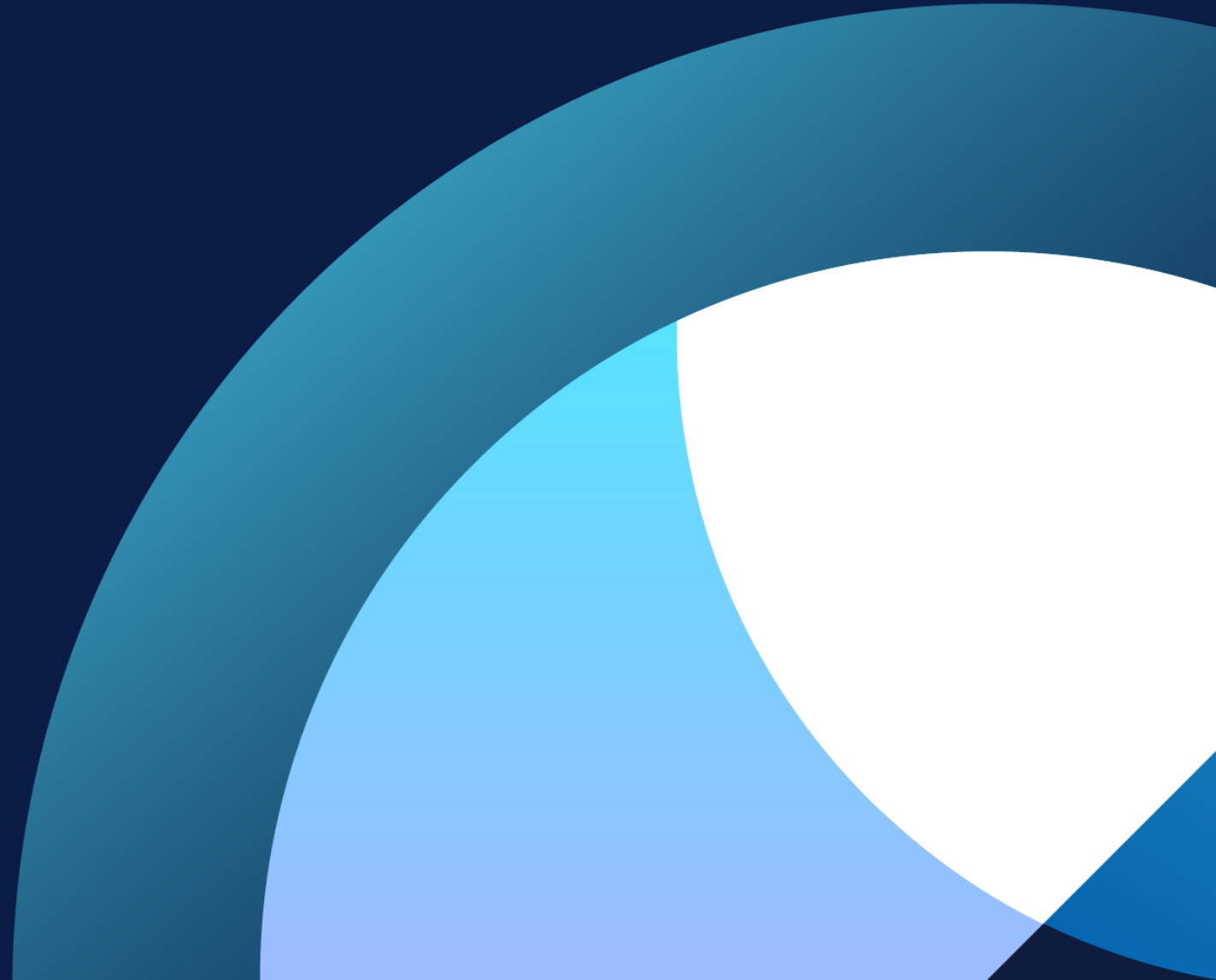
Purchase order

*priorities 0-100, 0 is the highest

Supply priority

- When pegging supply against demand, the supply with the highest priority is used up first
- On hand inventory priority is 0
- “Consider demand priority” flag can be used to make sure supply orders reflect the priority of corresponding demand

Set up priority
based planning



Set up priority based planning

- Previewed in 10.0.21, will be GA in Feb 2022
- Enable feature *Priority driven MRP support for Planning Optimization* in Feature Management workspace
- Create planning priority models
- Create coverage groups of type "Priority" and assign the planning priority models
- Set up item coverage as needed to drive min/max/reorder points

Demo – set up planning priority models

Planning priority models

- Planning priority defaults are used when orders are manually created and can be overridden on specific orders
- Planning models are assigned to coverage groups with coverage type "Priority"

Planning priority models | Standard view ▾

Name	Description	Priority calculation method	Planned order creation	Consider demand priority
PRangeSplit	Priority Ranges Split Orders	Priority ranges	Split according to priority ranges	☒ Yes

Planning priority ranges

[+ Add](#) [Remove](#)

☐ Planning p... ▾	Description	From quantity	To quantity	Percent of to quantity
☒	70.00 POH is below max	100.00 % of Reorder point	Maximum inventory quantity	100.00
	50.00 POH is below reorder	100.00 % of Minimum inventory...	Reorder point	100.00
	30.00 POH is below minimum	Zero	Minimum inventory quantity	100.00
	1.00 POH is below zero	Zero or less	Zero	100.00

Planning priority defaults

Sales order default	Purchase order default	Transfer order default	Demand forecast default
<u>5.00</u>	<u>50.00</u>	<u>50.00</u>	<u>60.00</u>

Minimum, reorder, and maximum

- Master planning will generate replenishment requirements when POH is below the reorder point
- Replenishment qty is to reach the maximum

PBP001 : WATERBOTTLE | Standard view ▾

Item coverage, Site: 1, Warehouse: 11

Overview General Lead time Min./Max. Dimension

☒ **CHANGE PLANNED ORDER TYPE**
Planned order type: Transfer ▾
Main warehouse: 13 ▾

☐ **USE SPECIFIC SETTINGS**
Coverage group: %Priority
Vendor account: US-103

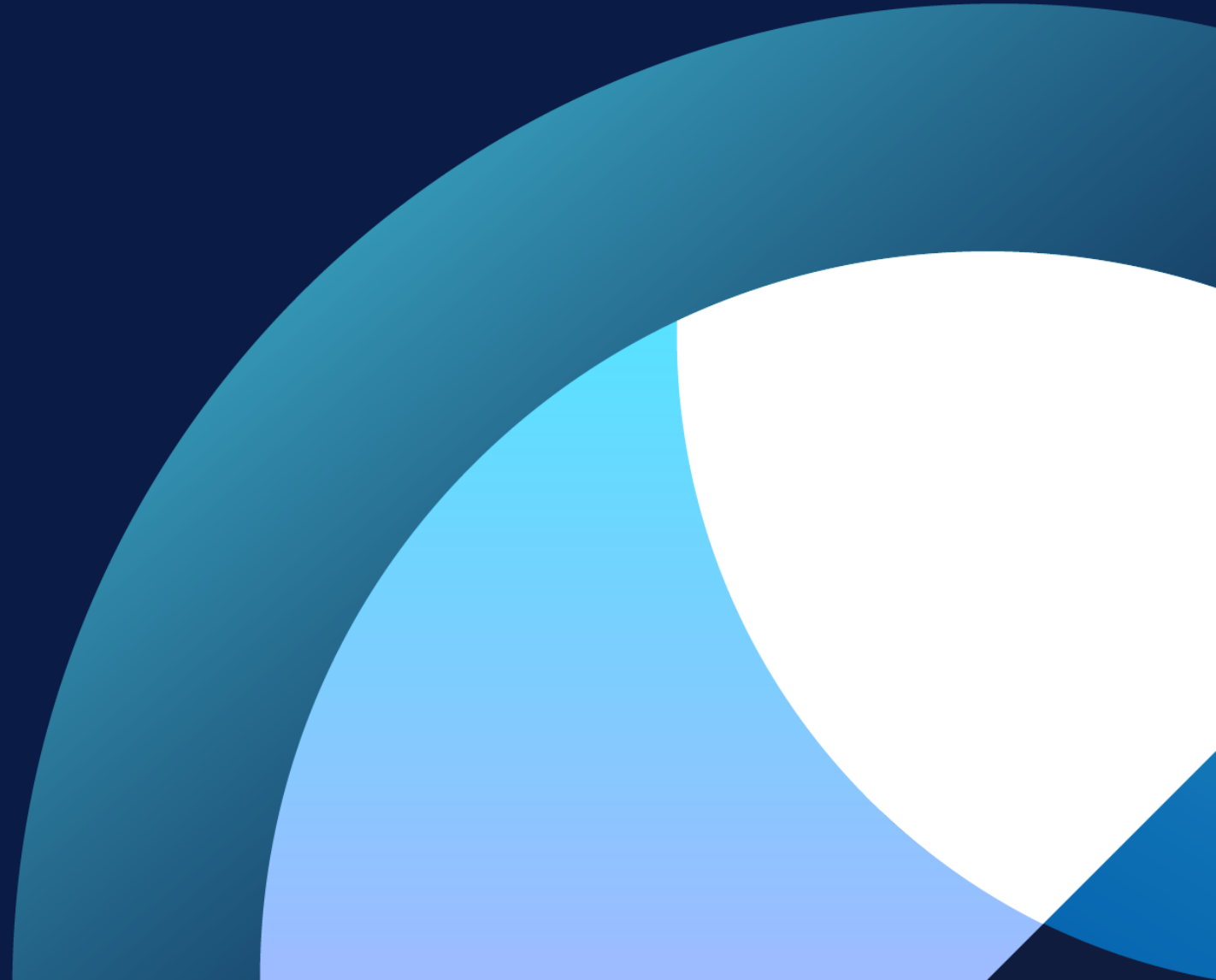
☐ **OVERRIDE COVERAGE GROUP SETTINGS**
Coverage code: Priority
Coverage period: 1
Coverage time fence (days): 100
Negative days: 2
Positive days: 100

☐ **OVERRIDE TIME FENCES**
Automatic firming time fence (days): 0
Freeze time fence (days): 0
BOM explosion time fence (days): 100
Capacity scheduling time fence (days): 100
Approved requisitions time fence (days): 0

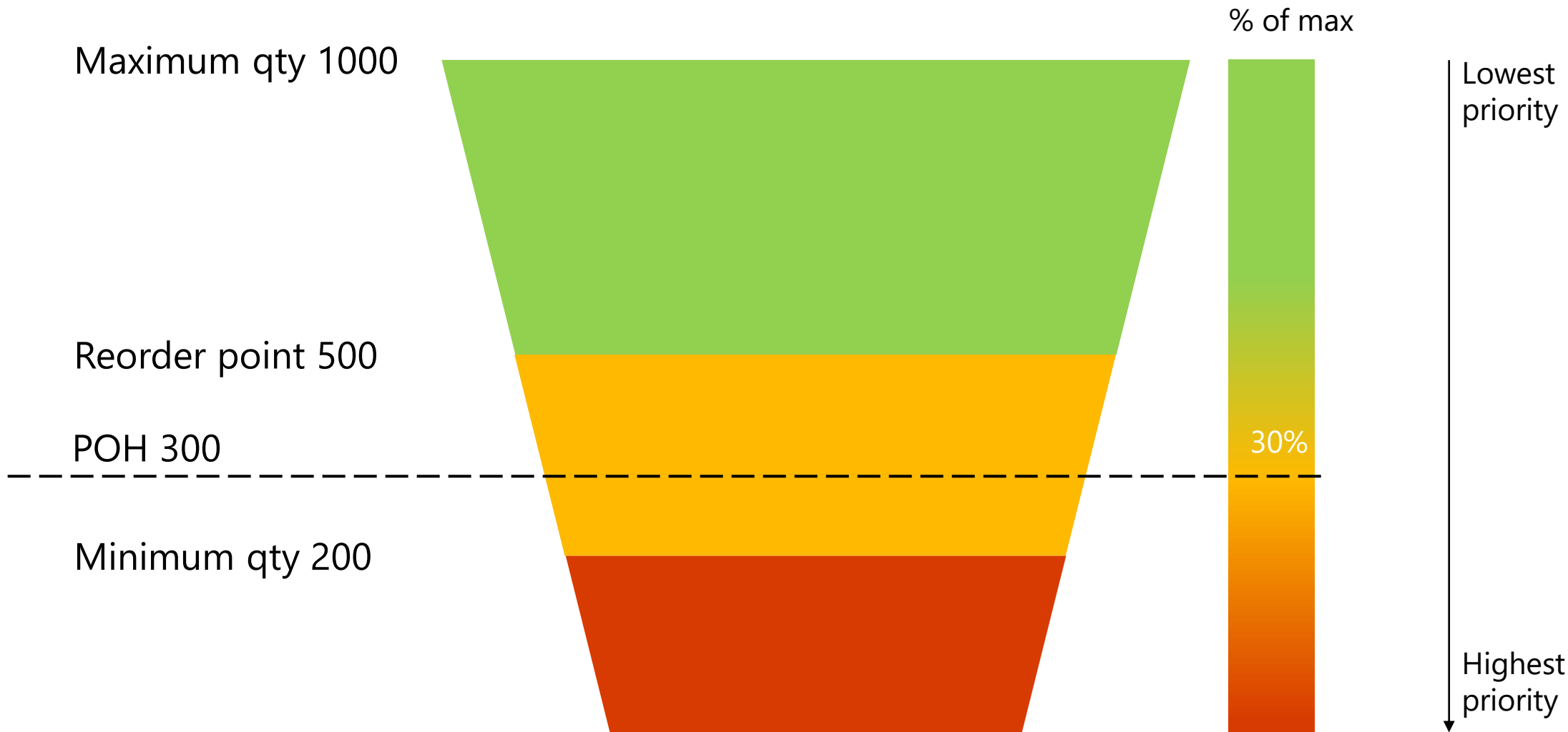
MIN./MAX.
Minimum: 200.00
CW minimum:
Reorder point: 500.00
Maximum: 1,000.00

CW maximum:
Minimum key:
Maximum key:
Fulfill minimum: Today's date ▾
Minimum periods: ☐ No

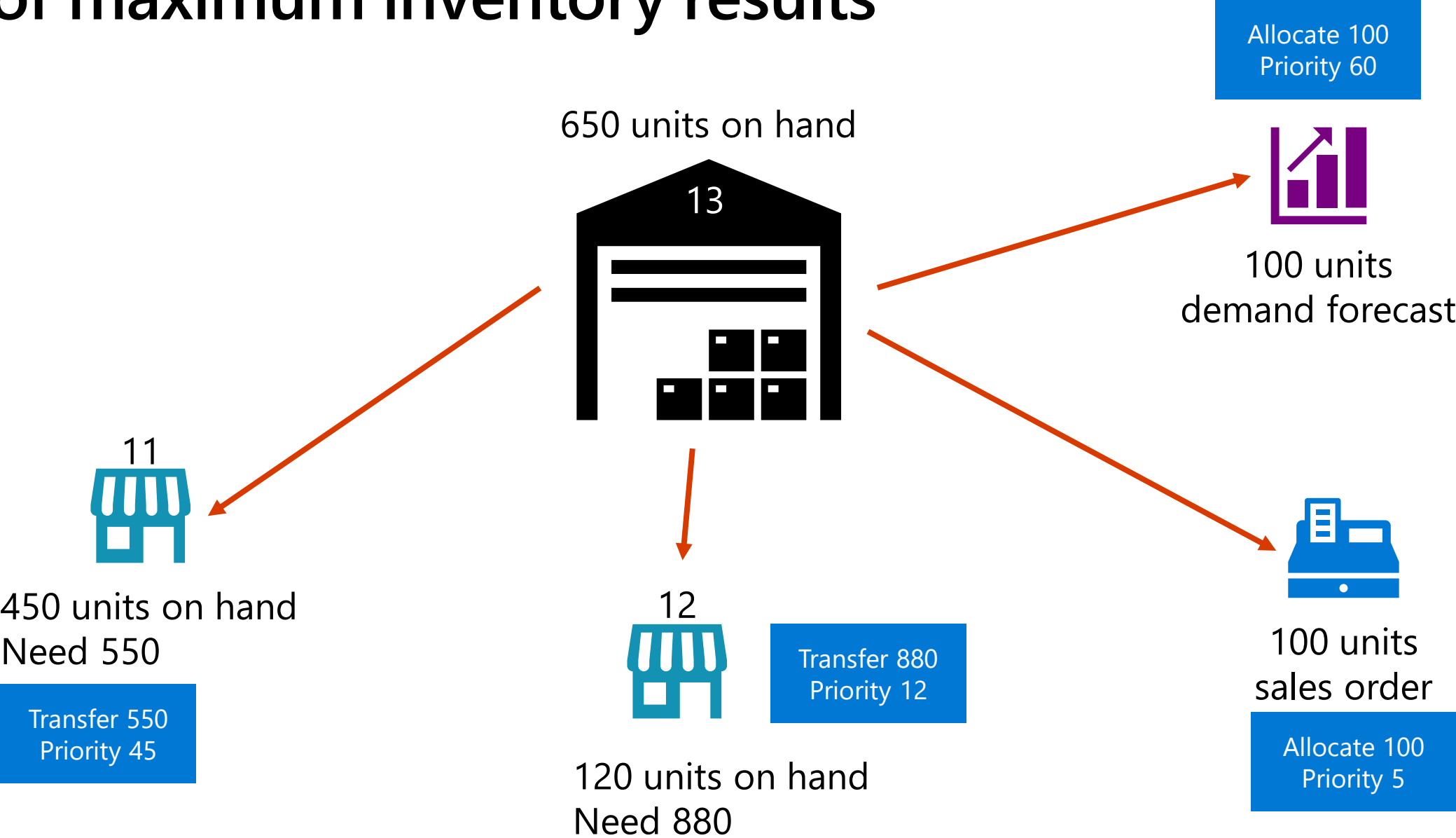
Prioritization Methods



Prioritize by % of maximum inventory

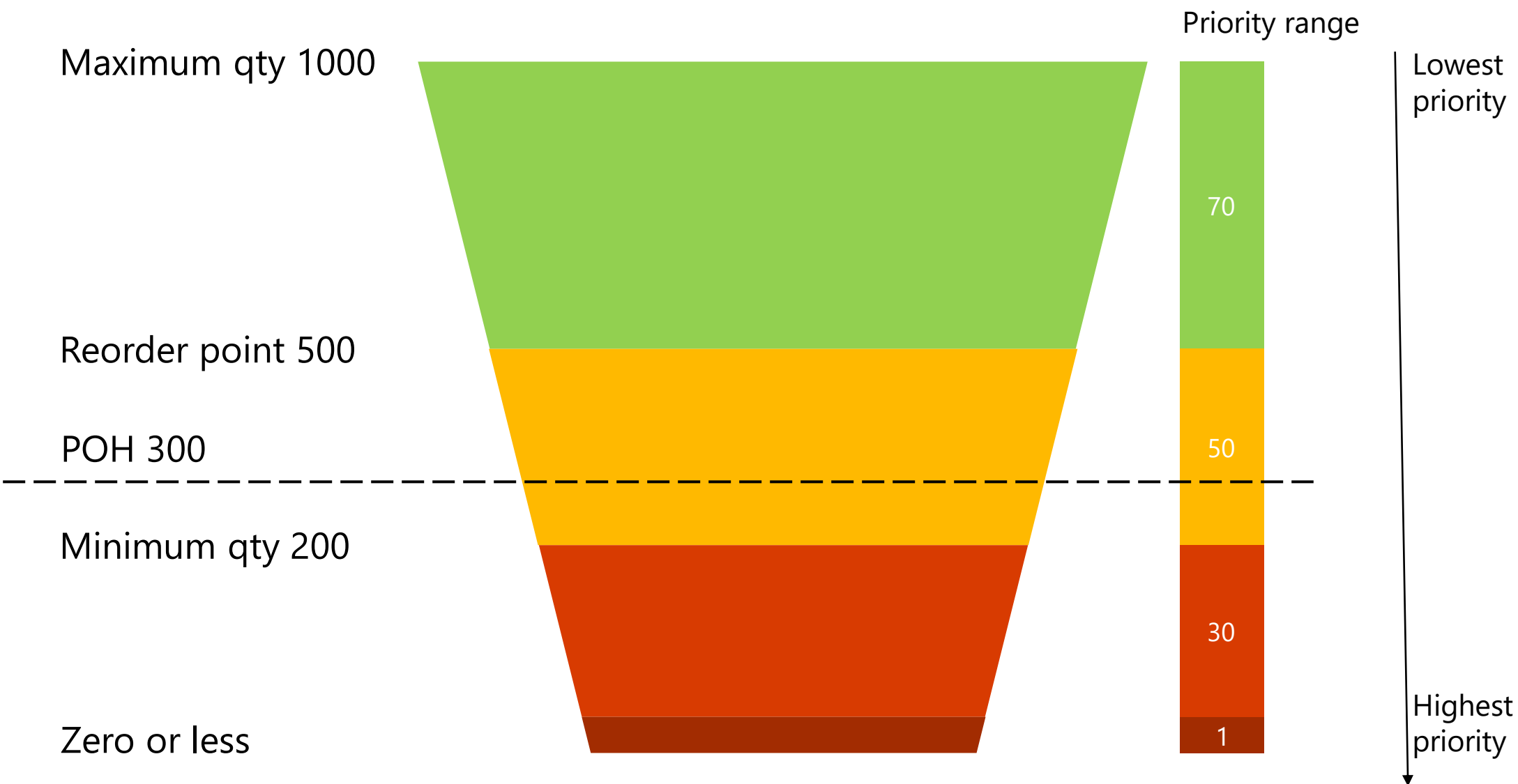


% of maximum inventory results

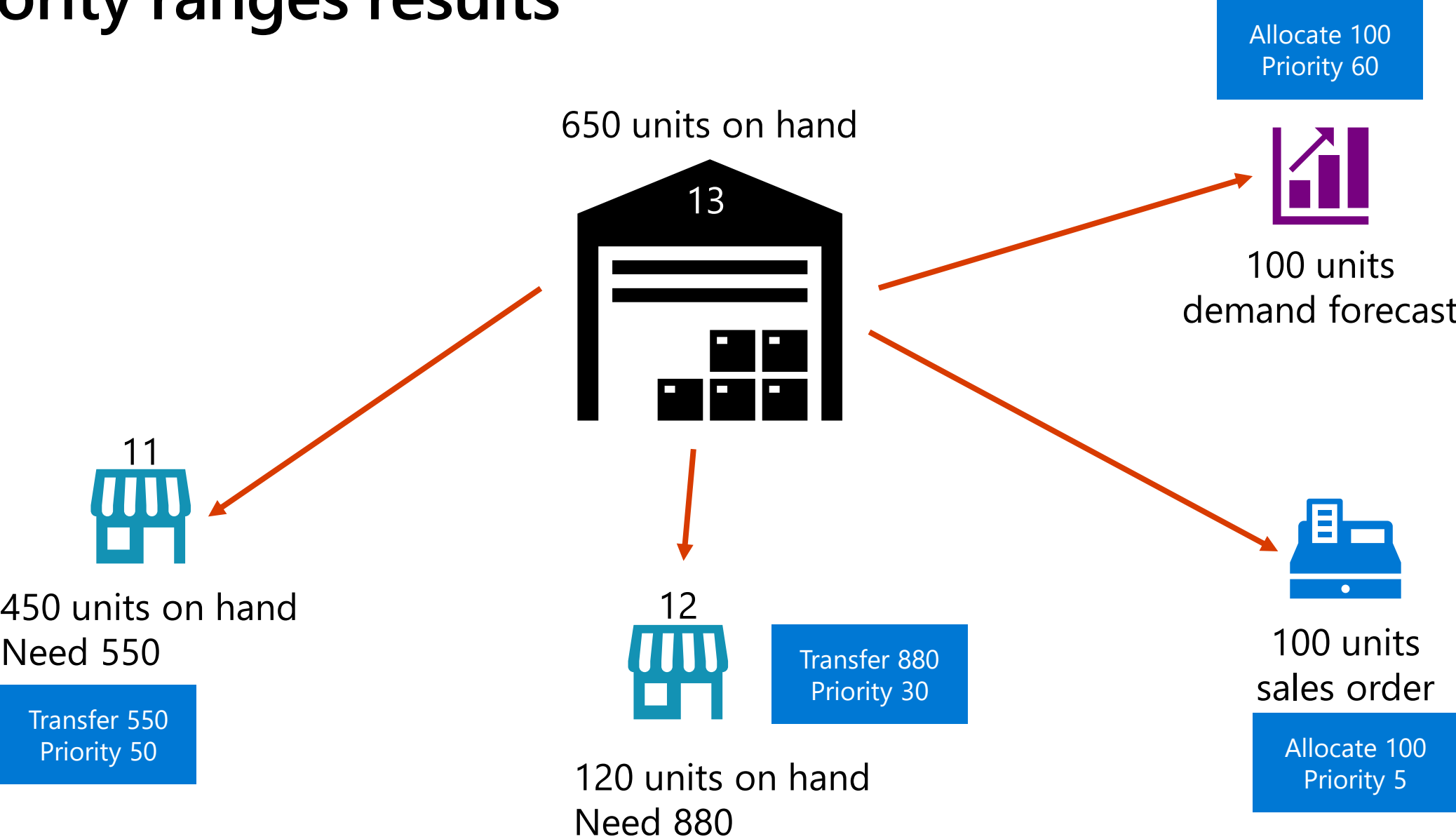


Demo – % Maximum Inventory

Inventory priority ranges

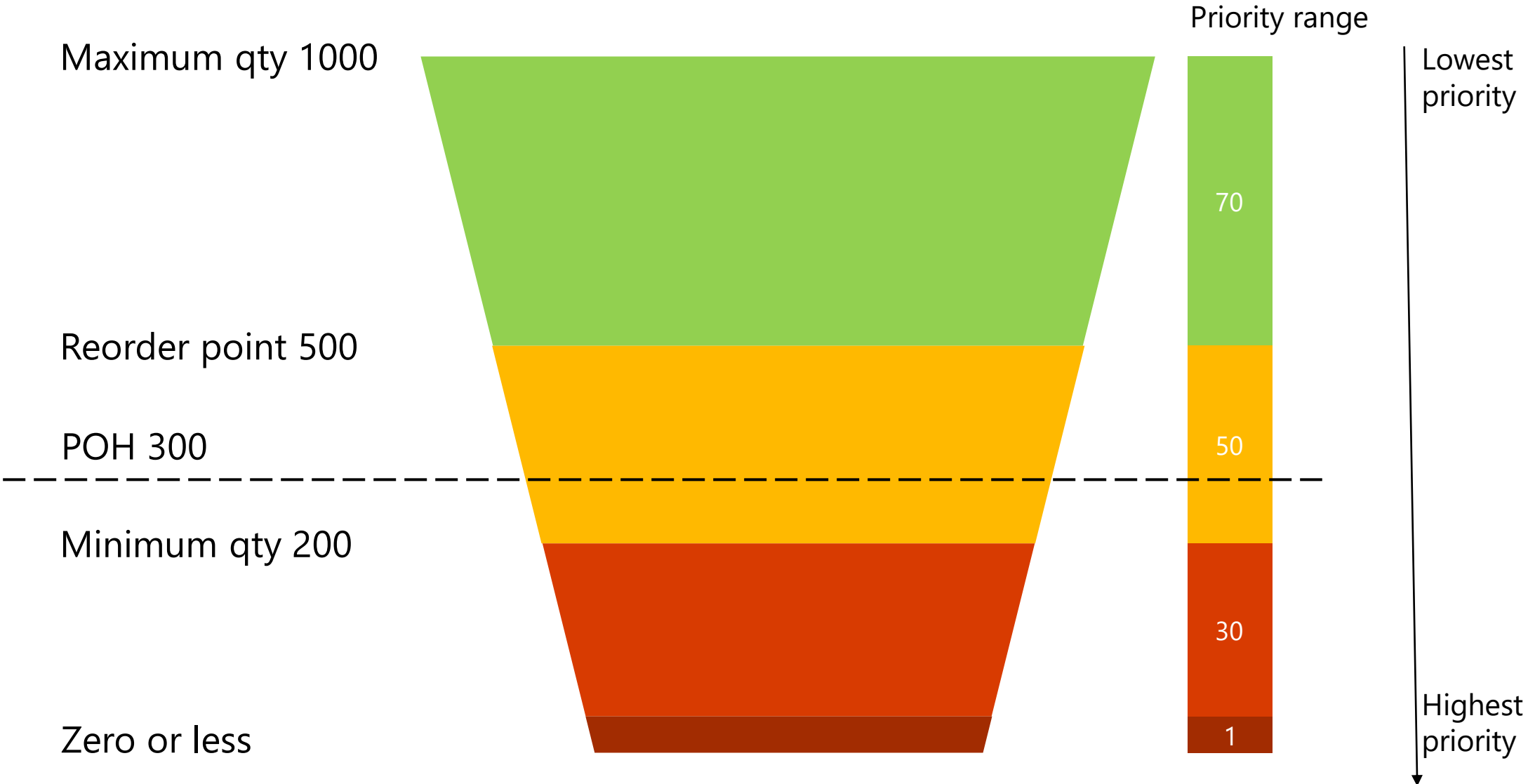


Priority ranges results

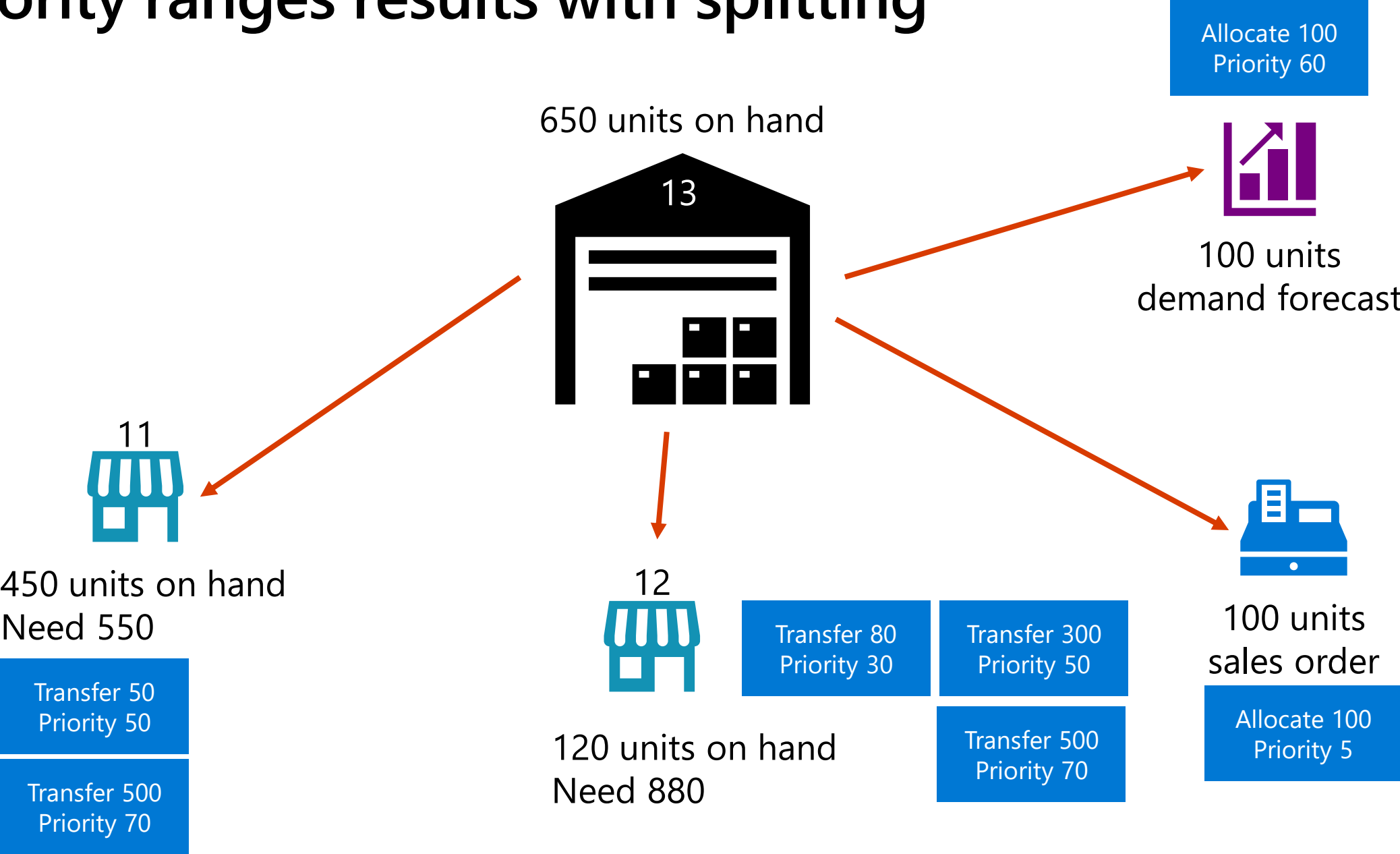


Demo – Priority Ranges

Inventory priority ranges with splitting



Priority ranges results with splitting



Demo – Priority Ranges with Split Orders

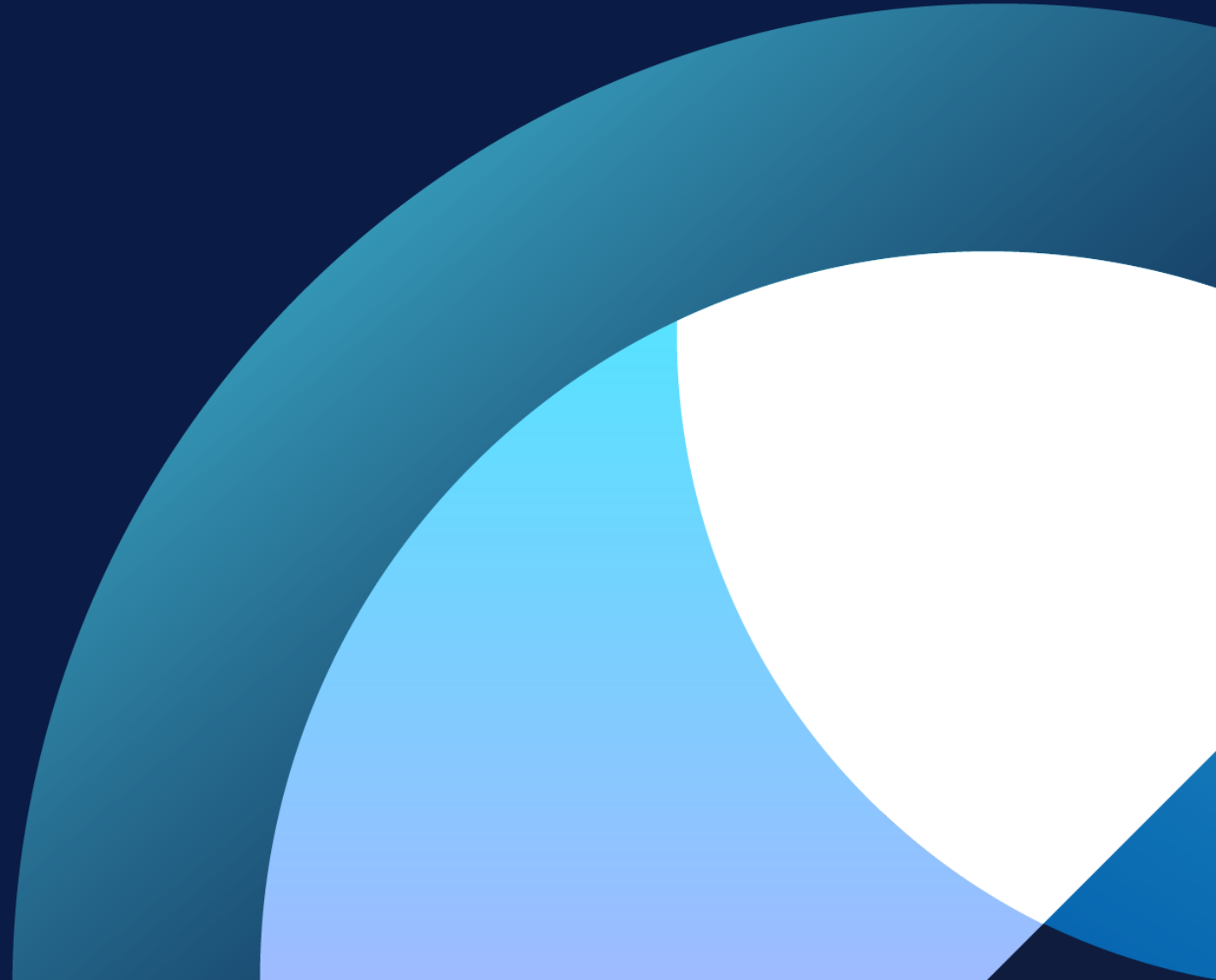
Notes

- Roadmap – prioritization of production orders
- Only compatible with planning optimization, not traditional master planning

Additional Resources

- Priority based planning documentation: [Priority-based planning - Supply Chain Management | Dynamics 365 | Microsoft Docs](#)
- MRP Basics Tech Talk: [Dynamics 365 Supply Chain Management: The Basics of MRP | December 6, 2019 - Microsoft Dynamics Blog](#)
- Planning Optimization Tech Talk: [Get started with Planning Optimization for Dynamics 365 Supply Chain Management | March 1, 2021 - Microsoft Dynamics Blog](#)

Q&A



Thank you!

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