



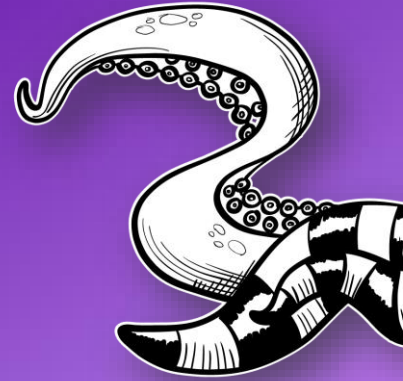
## Microsoft Dynamics 365 and Power Platform Conference

Pre-Day: MAY 26, 2024

MAY 27 - 29, 2024

Portorož, Slovenia, Europe





# Taking Demand Planning and MRP to the next level with Microsoft solutions

Angus Prior  
Supply Chain Architect  
HSO International

Chandru Shankar  
Global MD, Manufacturing  
HSO International



- Welcome & Introductions
  - Learning objectives for the session
- Microsoft Demand Planner Overview
  - Demand Planner Solution Showcase
- MRP & DDMRP with D365 SCM
  - DDMRP with D365 SCM Solution Showcase
- Summary & Go-Do's





## **Angus Prior**

Supply Chain Architect

HSO International

[aprior@hso.com](mailto:aprior@hso.com)

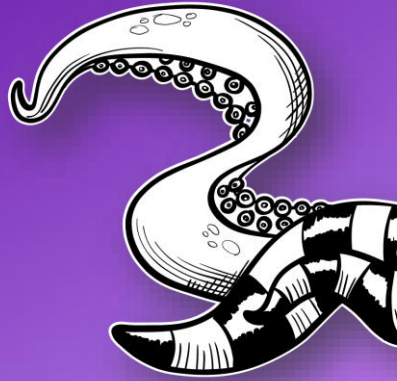
### **Career history:**

February 2023 to current: HSO International

2015 to 2023: Blue Horseshoe Accenture

2010 to 2015: Sable37 (now DXC)

Earlier: Warehouse & Logistics manager





# Chandru Shankar Intro

Chandru Shankar is a Digital Strategy and Industry Thought- Leader for Manufacturing and Automotive industries. Chandru is the Global MD for Manufacturing at HSO, a leading Global Microsoft Partner, responsible for driving growth and solution adoption in the manufacturing sector.

- At Microsoft, Chandru was the Industry Director for Microsoft EMEA Business Solutions group in his last role, leading Automotive, Manufacturing and Utilities industries
- Prior to that, Chandru was the Dynamics Solutions Director for Microsoft Services, responsible for Dynamics AX and CRM offerings for WW MCS.
- Chandru has 30+ years of Mfg industry and Business solutions experience.
- Chandru is the architect of the Microsoft Dynamics Sure Step methodology, and author of books on selling and delivering Microsoft Dynamics solutions. He has also performed as Adjunct Faculty in the MBA program of a major US university.

**HSO**, 2022 to Current: Global MD for Manufacturing Sector

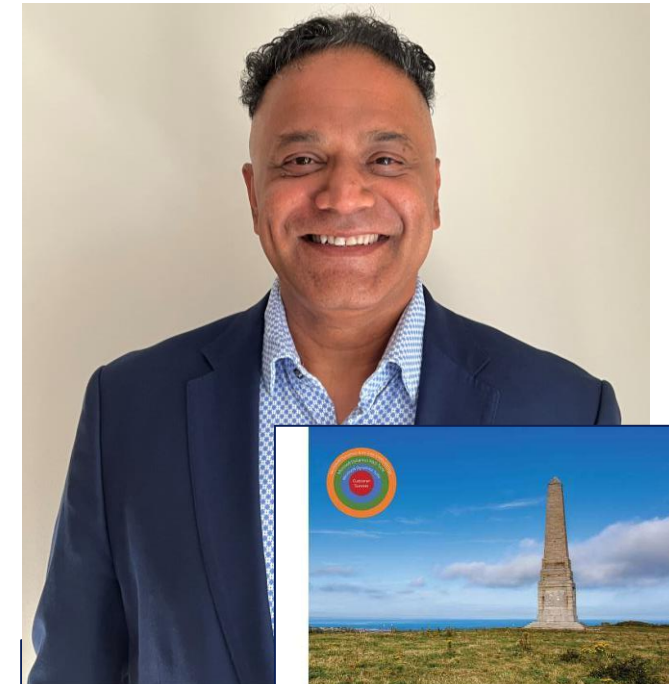
**EQM**, 2020 to 2022: Chief Commercial Officer & Partner

**Microsoft Corp.**, 2005 to 2019

- Industry Director & EMEA Business Solutions Lead – Manufacturing & Automotive
- Director, Dynamics Solutions – Microsoft Services

**i2 Midwest**, 1998 to 2005: Director of Consulting Services

**Mfg Companies, USA**, 1991 to 1998: Mfg Engineering roles

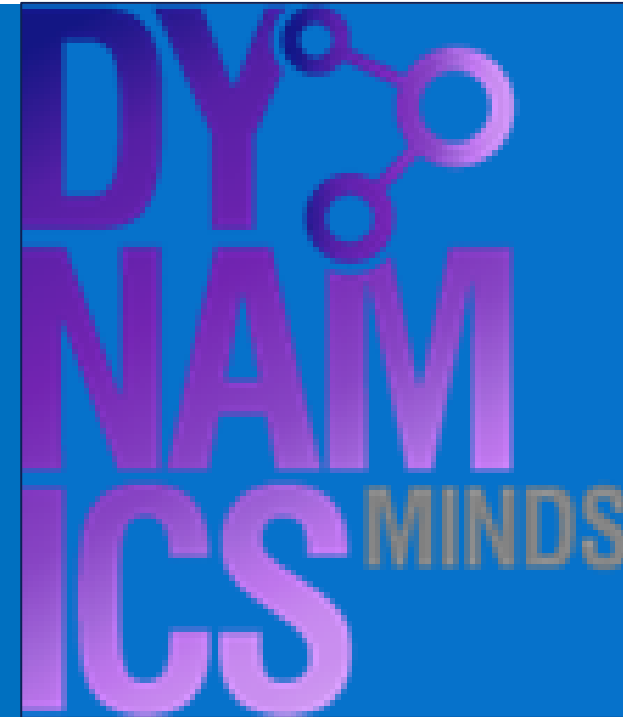


**Dynamics 365 Platform Conference**  
**Pre-Day: MAY 26, 2024**  
**MAY 27 - 29, 2024**  
Portorož, Slovenia, Europe

# Learning objectives for today's session

## Taking Demand Planning and MRP to the next level with Microsoft solutions

- Learn how Microsoft Demand Planner can help organizations shore-up their forecasting, leading to lesser plan deviations and better inventory management.
- Learn how Microsoft Demand Planner supports organizations to collaborate, align demand & supply forecasts, and achieve Increased agility through integrated planning and execution.
- Learn how Demand Driven MRP (DDMRP) in D365 SCM improves the Sales & Operations Planning (S&OP) and Supply and Production Planning functions of an organization.



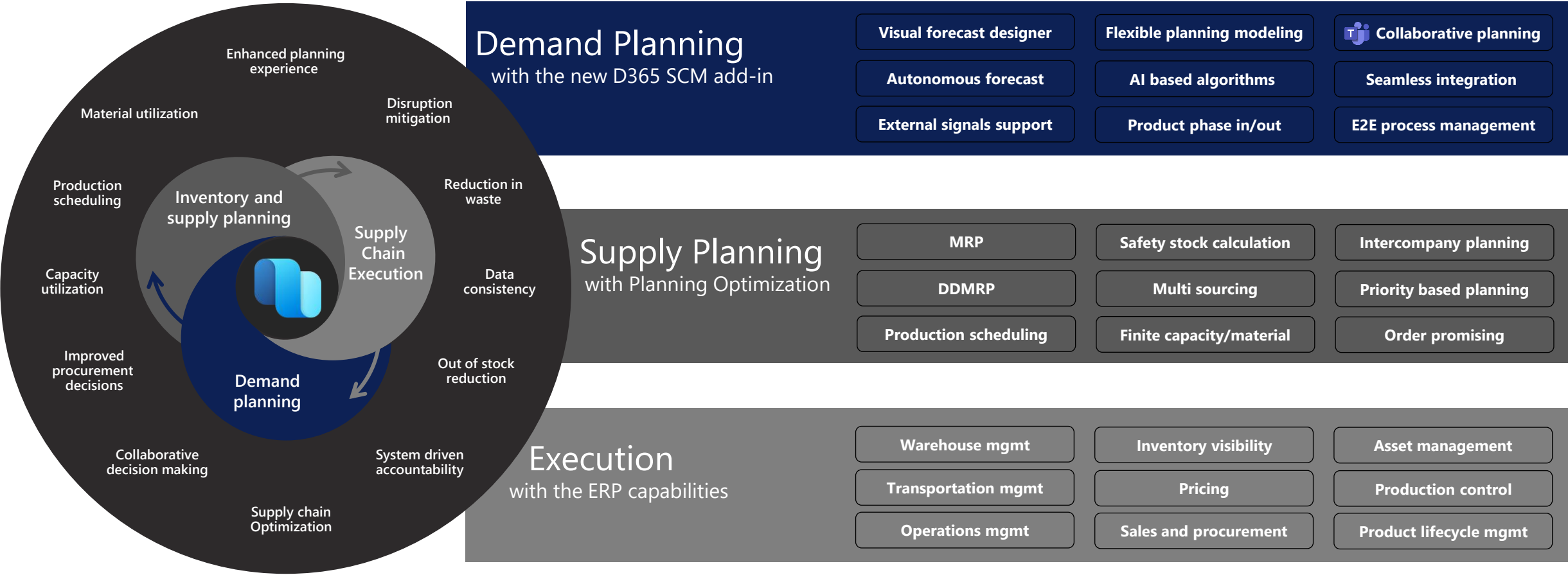
# CHAPTER #1

D365 Demand Planning



# Full planning and execution cycle with Demand Planning

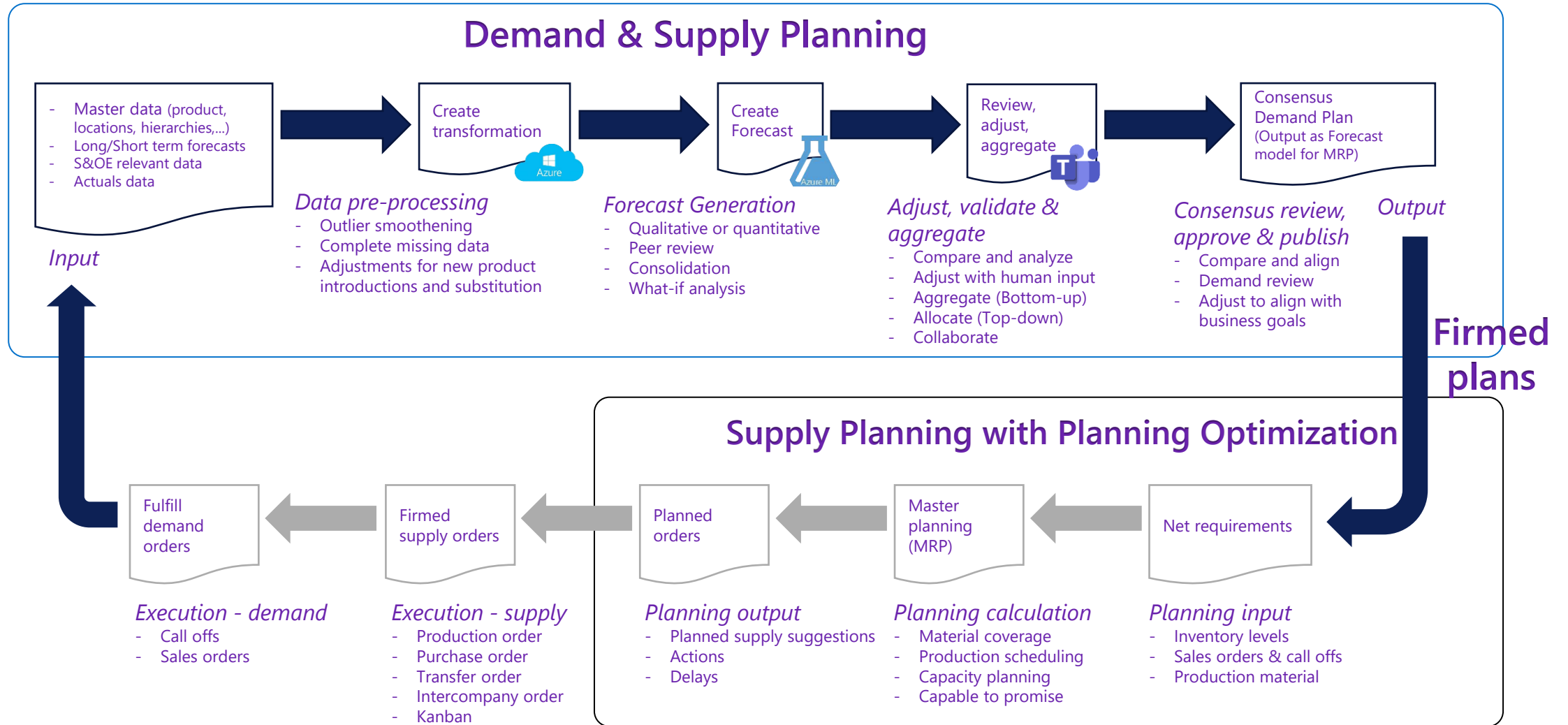
 Dynamics 365 Supply Chain Management





# Full planning and execution cycle with Demand Planning

## Dynamics 365 Supply Chain Management



# The Demand Planning process

 Dynamics 365 Supply Chain Management



Import data



Create transformation



Create forecasts



Review & adjust forecast



Export data

# Import data

Create tables for each type of data: products, history, locations, etc.

Map relationships between tables and fields

Dynamics 365 | Demand Planning

Product - Saved Table

General Columns Relationships Data

	Name	Data Type	Is System	Created On
<input type="checkbox"/>	Color ID	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Configuration ID	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Product Family	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Product Group	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Product ID	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Product Name	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Product Type	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Product Variant ID	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Product Variant Name	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Size ID	String	Yes	11/7/2023 1:00 AM
<input type="checkbox"/>	Style ID	String	Yes	11/7/2023 1:00 AM

Rows: 11

Define each column in a table based on your business needs

# Data pre-processing

Map from each data table what should be included

**Add columns to your transformation**

**Tables**

Historical Demand

**Show columns from**

**Main table**

☒ Historical Demand

**Related tables**

☐ Customer Accounts

☐ Warehouse Location

☐ Product

☐ Legal Entity

**Timestamp**

☒ Actual Delivery Date

**Measure**

☒ Actual Quantity

**Dimension**

☐ Record ID

☐ Data Area ID

☐ Order ID

☐ Product ID

☐ Product Variant ID

☐ Buyer ID

☐ Product Type

☐ Buyer Party ID

☒ Channel

☐ Seller Party ID

☐ Actual Warehouse Location ID

☐ Order Type

☐ Unit Of Measure

**Timestamp**

Actual Delivery Date (Historical Demand)

**Measure**

Actual Quantity (Historical Demand)

**Dimension**

Warehouse Location Name (Warehouse Location)

Product Variant Name (Product)

Channel (Historical Demand)

Country/Region (Customer Accounts)

Product Family (Product)

Reset OK Cancel

Choose what field represents demand timestamp and quantity

Select applicable dimensions for the forecast



# Forecast generation

The screenshot displays the Dynamics 365 Demand Planning interface. The left sidebar shows the navigation menu with categories like Home, Planning data, Operations, Data management, and Configuration. The 'Forecast profiles' option under 'Operations' is highlighted. The main area shows the 'Demand Plan 2024 - Saved' forecast profile with tabs for Summary, Horizon and time buckets, Input Data, Forecast model, and Run Schedule. The 'Forecast model' tab is active, showing a flowchart with steps: Input Time Series 1, Handle outliers Interquartile range (IQR), Forecast Forecast best fit action, and Save Save. Annotations with arrows point to the 'Forecast model' tab, the 'Forecast profiles' option, and the 'Run Schedule' tab.

Create forecast profiles for any scenario

Set schedule for when forecasts should be run

Use low-code experience to define steps for the forecast

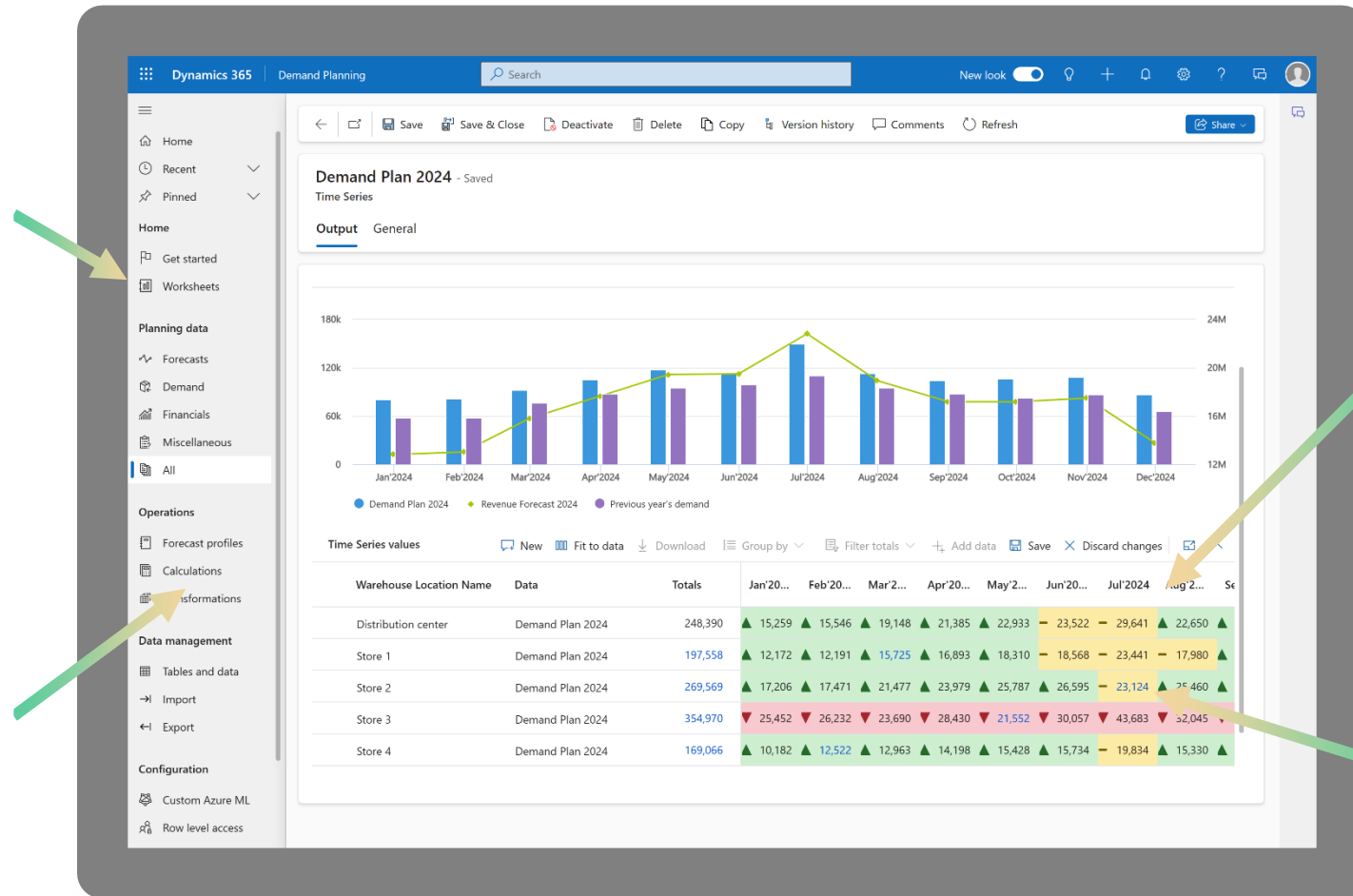
# Adjust, validate, & aggregate

Create and publish views on the fly, comparing multiple datasets, grouping on different levels

Do calculations on top of the demand forecast like revenue forecast, YoY growth %

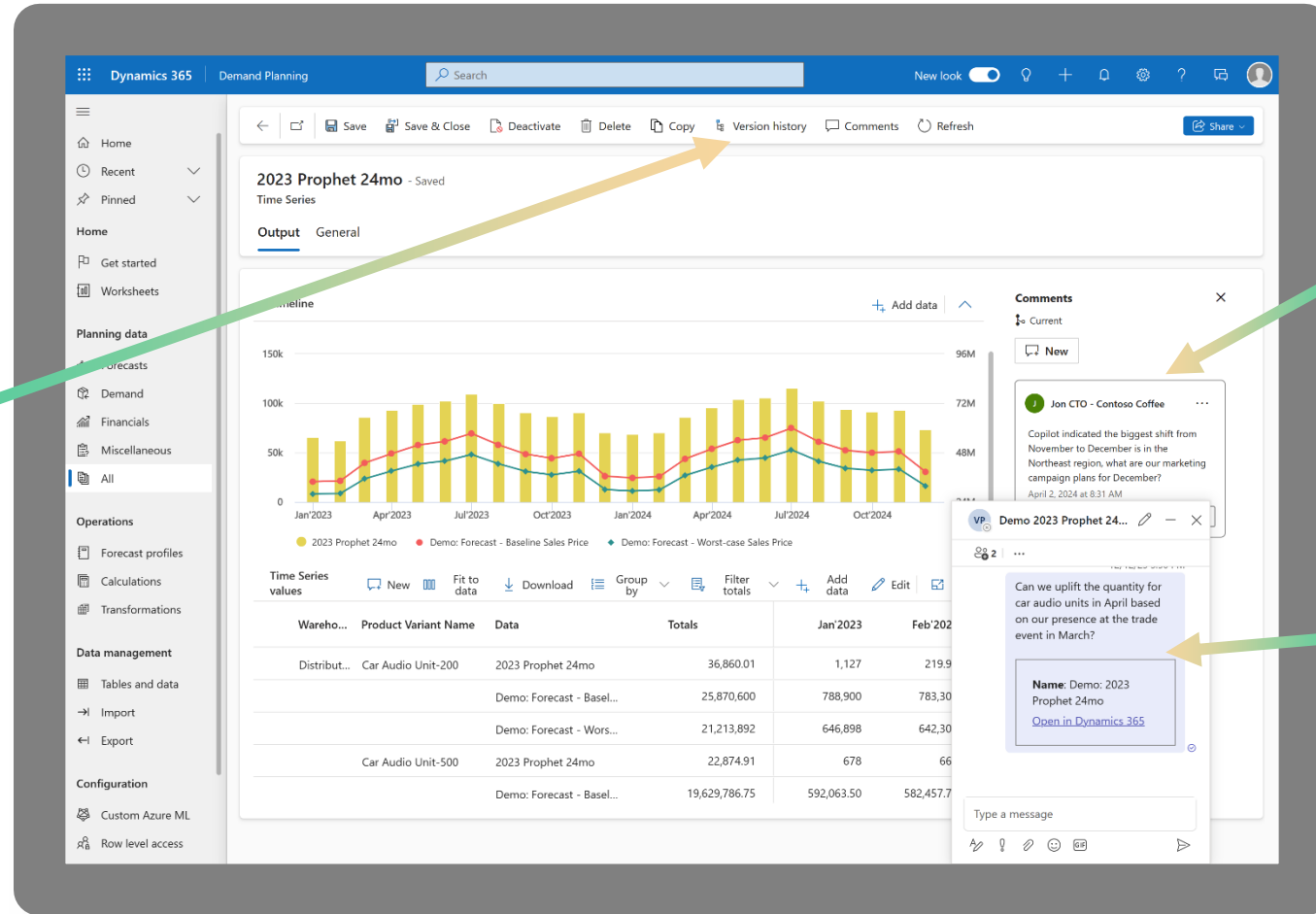
Use conditional formatting rules to highlight important data

Changes at an aggregate level are cascaded down to the most granular level



# Consensus review, approve & publish

Review previous versions of the plan, seeing who made what changes and following the plan evolution over time



Make comments on the plan and cell level to track communication

Collaborate with stakeholders in Teams without leaving the browser



Import

Data

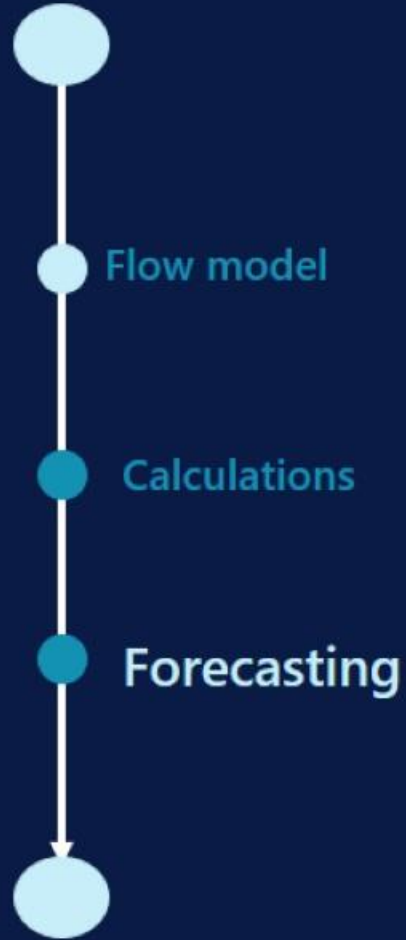
Forecast

Validate

Publish

Microsoft Dynamics 365  
and Power Platform Conference

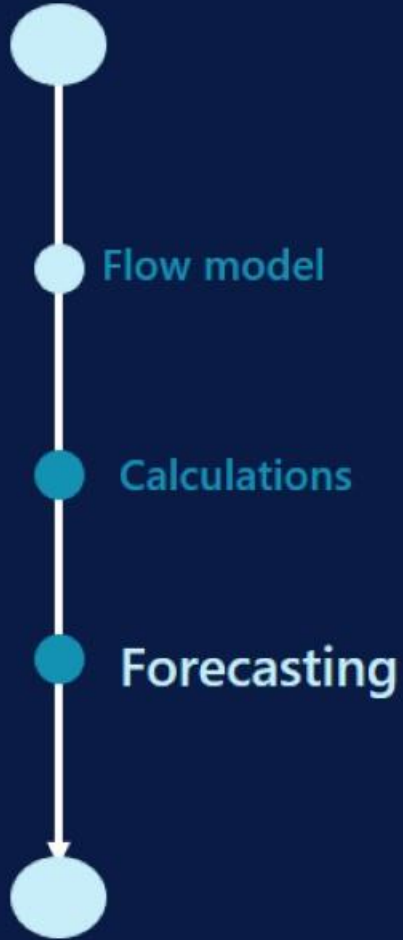
# Out-of-box forecasting and outlier algorithms



- **STL** (Seasonal-Trend decomposition using LOESS)
  - Versatile and robust method for decomposing time series into 3 parts:
    - Trend
    - Seasonality
    - Remainder
  - The seasonal component is allowed to change over time, and it can be controlled by the user.
  - After calculating mean and standard deviation, outliers are smoothed.



# Out-of-box forecasting and outlier algorithms



- **IQR** (Interquartile Range)
  - Identifies data points that fall outside a certain range defined by the quartiles
  - Calculates IQR and determines IQR range.
  - Multiplier of the IQR is determined by the user.
    - Lower bound =  $Q1 - \text{Multiplier} \times IQR$
    - Upper bound =  $Q3 + \text{Multiplier} \times IQR$

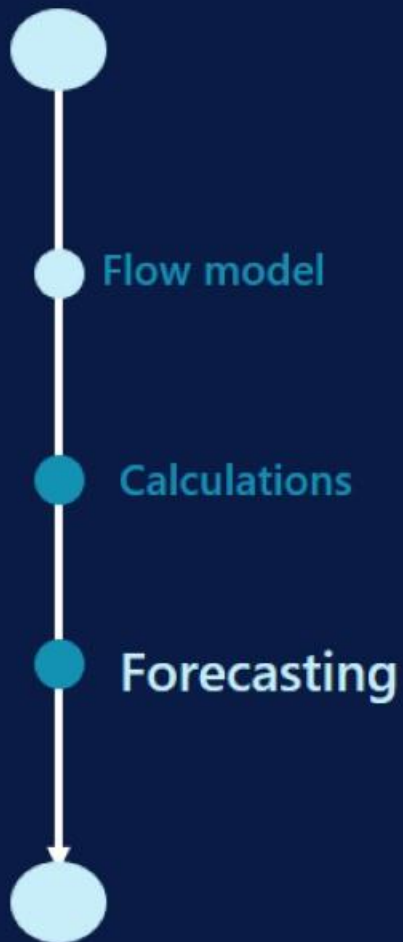
# Out-of-box forecasting and outlier algorithms

Scenario	IQR	STL
<i>Data with Seasonal or Trend Patterns</i>	X	✓
<i>Robust Handling of Outliers</i>	✓	X
<i>Faster Performance</i>	✓	✓
<i>Sensitivity to Extreme Values</i>	✓	X

Flow model

Calculations

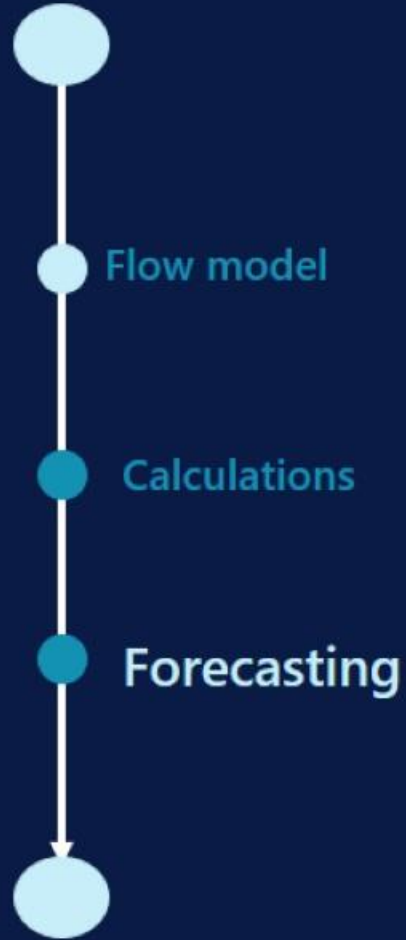
Forecasting



## Out-of-box forecasting and outlier algorithms

- **ETS** (Error-Trend-Seasonality)
  - Data with clear trends and seasonality.
- **ARIMA** (AutoRegressive Integrated Moving Average)
  - Data with complex trends and relationships between past and future values.
- **Prophet**
  - Data with strong seasonal patterns and special events
- **Best Fit**

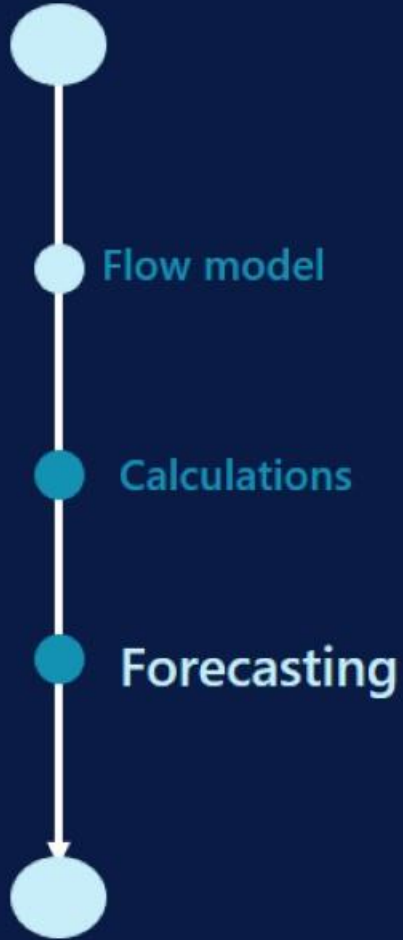
## Out-of-box forecasting and outlier algorithms



- **ETS** (Error-Trend-Seasonality)
  - Exponential smoothing is a time series forecasting method for predicting future data points by assigning different weights to different observations.
  - Recent data points are more weighted than older ones.

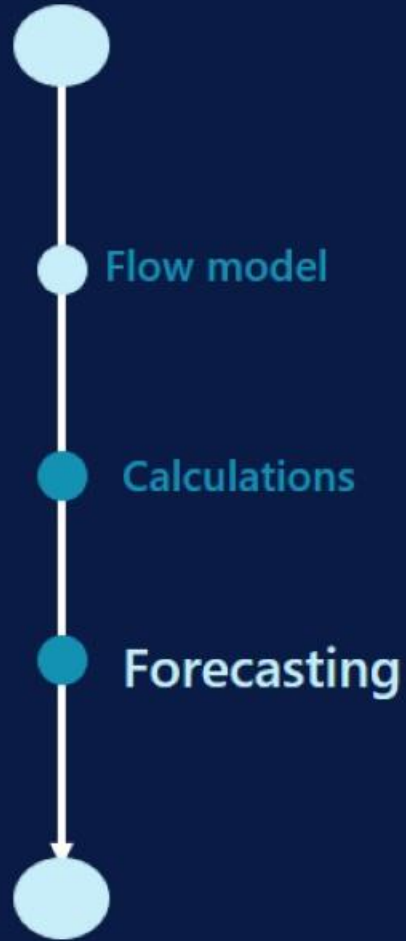


## Out-of-box forecasting and outlier algorithms



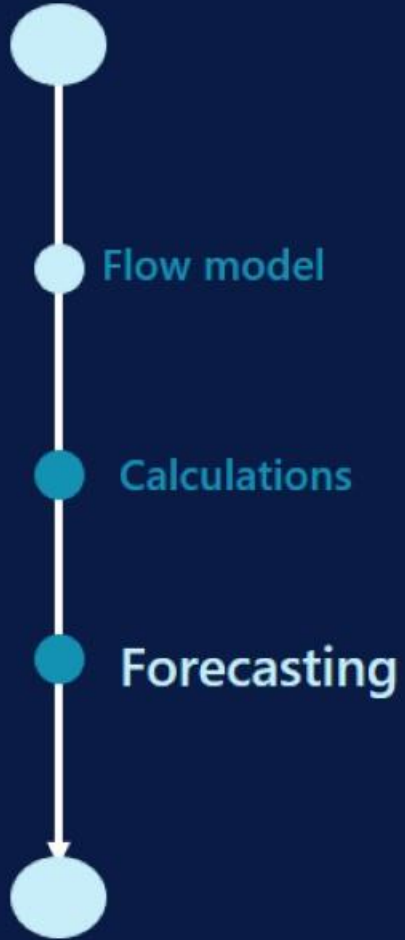
- **ETS** (Error-Trend-Seasonality)
  - Decomposes the time series into 3 components:
    - Seasonality
    - Trend
    - Error
  - The error component represents the random or unexplained variation in the time series data.

## Out-of-box forecasting and outlier algorithms



- **ARIMA** (AutoRegressive Integrated Moving Average)
  - Stationarity Check
  - Differencing when needed
  - Autoregression between observed data point and lagged ones.
  - Moving averages model the relationship between an observation and a residual error from a moving average.
  - Model selection ( $p, d, q$ )
    - P: autoregression
    - D: order of differencing
    - Q: order of the moving average.

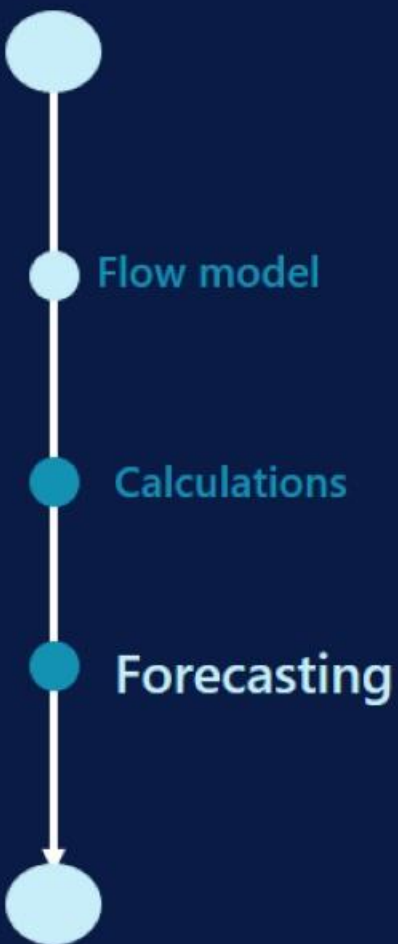
# Out-of-box forecasting and outlier algorithms



- **Prophet**

- Time series decompositions into 3 components:
  - Seasonality
  - Trend
  - Holidays
- Automatic outlier handling
- Saturation





ETS	Arima	Prophet
Prefer a model that can adapt to different types of time series components automatically.	There is no significant seasonality, or the seasonality can be managed through differencing.	Your data has strong seasonal patterns, including yearly, weekly, and daily seasonality.
Your business case is simple and requires quick forecasting	Data is stationary or can be easily transformed to be stationary through differencing.	There are holidays or special events that need to be considered in the forecasting.
Data has different patterns, including linear or exponential trends and various types of seasonality.	Time series exhibits a clear linear trend.	The time series exhibits piecewise linear trends or has abrupt changes

## Out-of-box forecasting and outlier algorithms

- **ETS** (Error-Trend-Seasonality)

$$Y_t = m + b \cdot t + S_{t-m} + E_t$$

$$S_t = \alpha \cdot (Y_t - m - b \cdot t) + (1 - \alpha) \cdot S_{t-m}$$

$$m = \alpha \cdot (Y_t - S_t) + (1 - \alpha) \cdot (m + b \cdot t)$$

$$b = \beta \cdot (m - m_{t-1}) + (1 - \beta) \cdot b_{t-1}$$

$$E_t = \gamma \cdot (Y_t - m - S_t) + (1 - \gamma) \cdot E_{t-1}$$

Flow model

Calculations

Forecasting

# CHAPTER #2

Demand Planning Demo – Forecast Generation





# Consensus demand view

Multiple sources of demand

Graphical & tabular data

Plans shown:

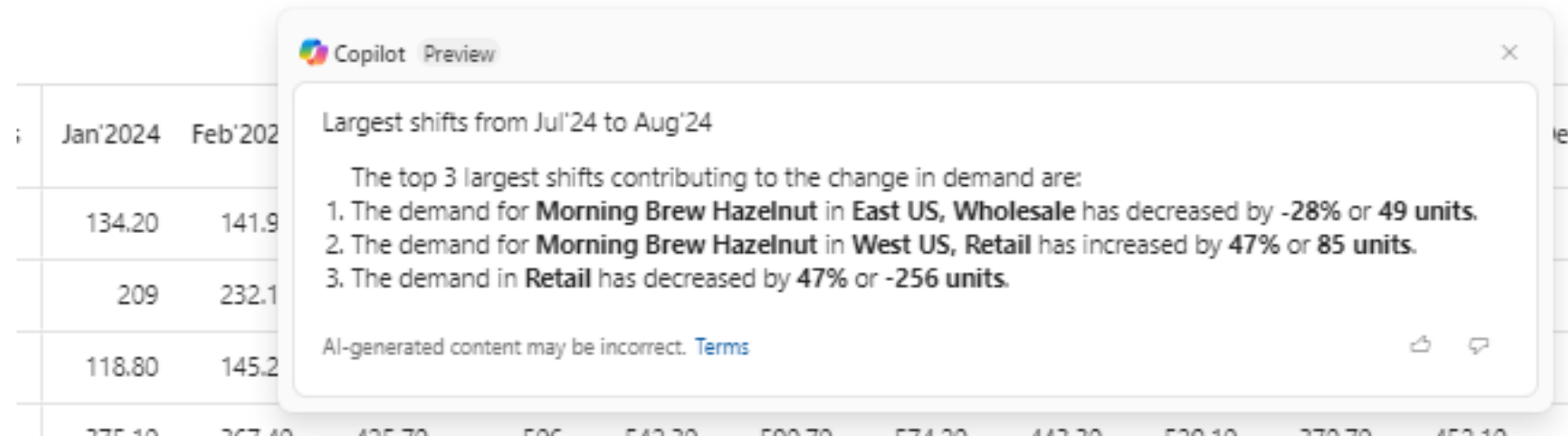
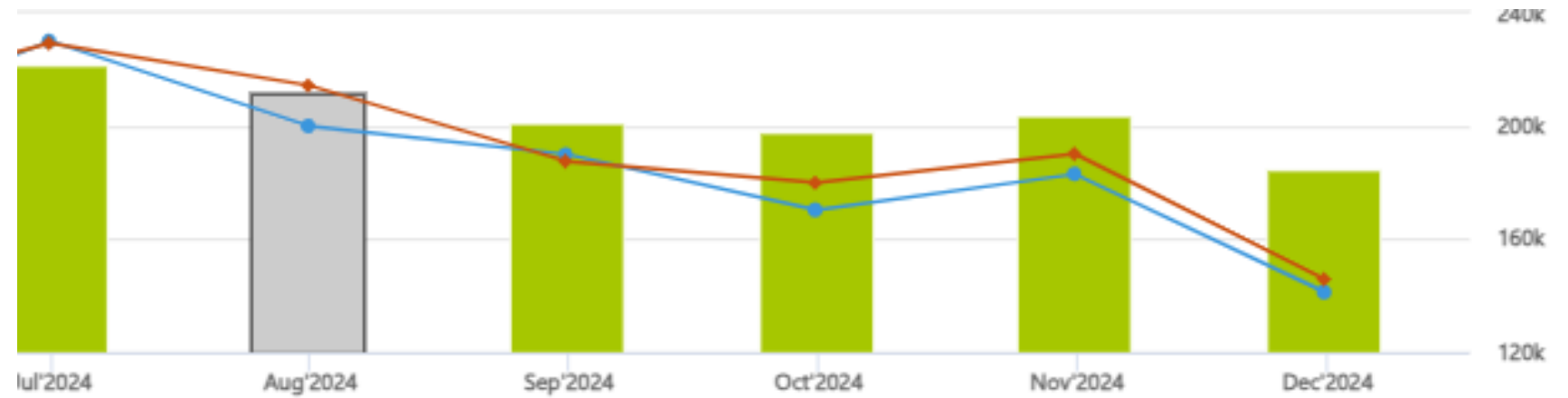
Demand Plan

Revenue Forecast

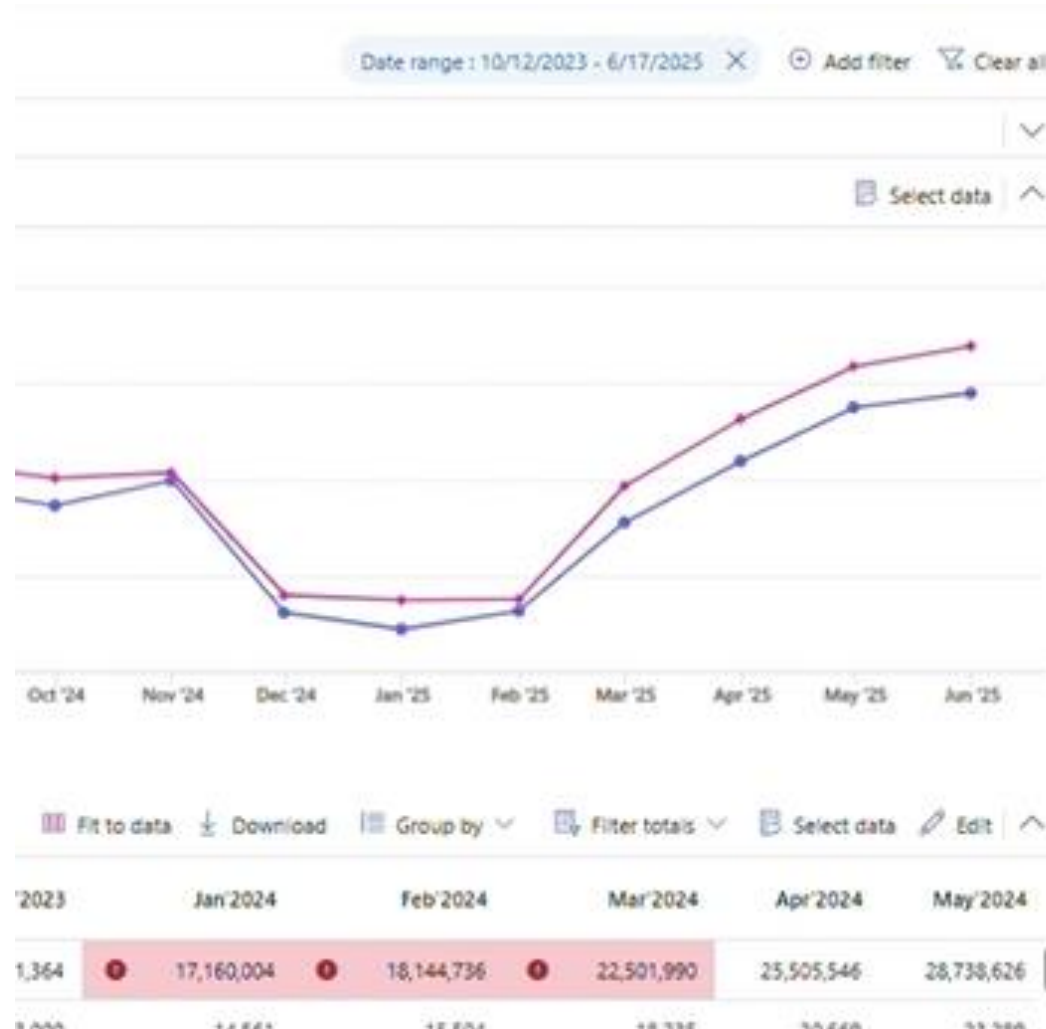
Revenue Target



# Copilot analysis



# Version history

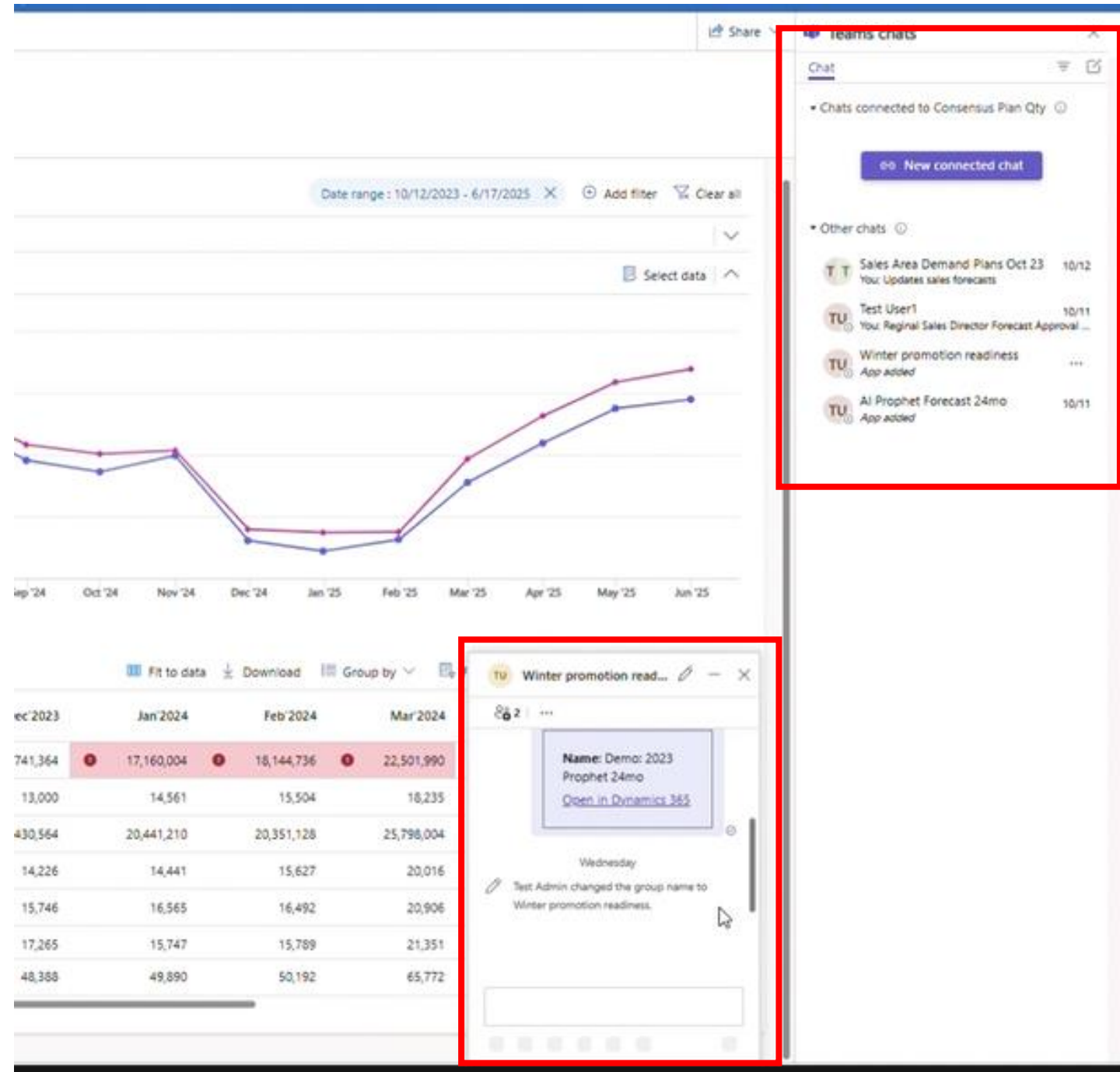


### Version history

Save changes as current version

- Current
- Sales Assumptions: Q2 fcst affected by NE Market inflation
- Marketing Assumptions: Q1 Promo for Speakers
- Finance Target Revisions Q1'24

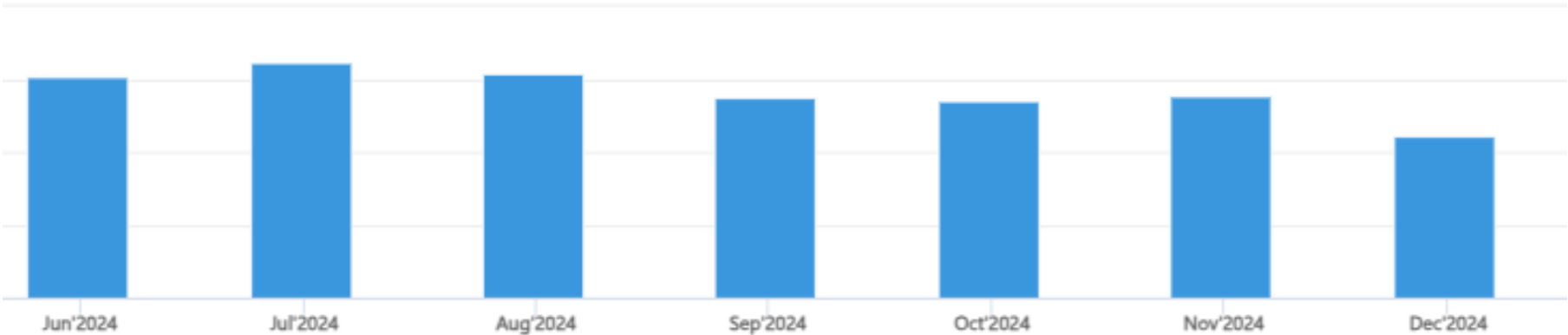
# Embedded Teams chat





# Conditional formatting

Similar to Excel



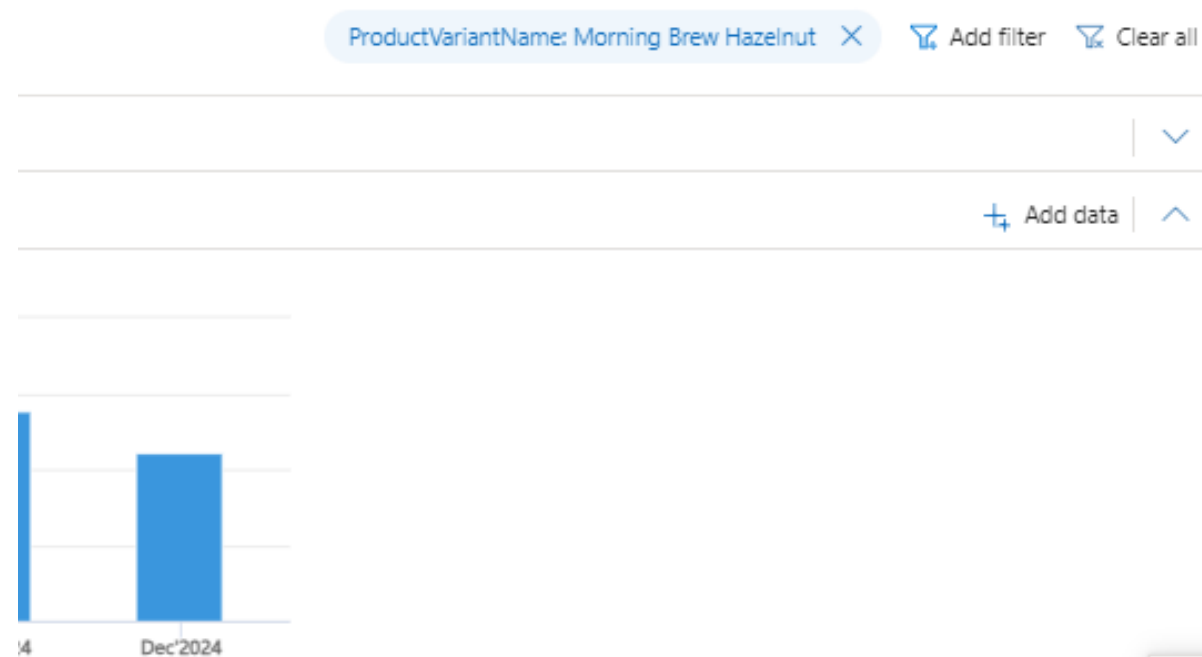
New Fit to data Dow

Totals	Jan'2024	Feb'2024	Mar'2024	Apr'2024	May'2024	Jun'2024	Jul'2024	Aug'2024	Sep'2024
8,072.90	▼ 509.30	▼ 509.30	! 631.40	! 708.40	! 777.70	! 756.80	▼ 806.30	✓ 768.90	✓ 684.20
8,948.50	✓ 550	▼ 600.60	✓ 623.70	✓ 779.90	✓ 852.50	▼ 810.70	✓ 968	✓ 884.40	▼ 764.50
6,866.20	✓ 422.40	✓ 437.80	! 520.30	▼ 601.70	✓ 633.60	▼ 656.70	✓ 768.90	✓ 633.60	✓ 573.10



# Cell commenting

Similar to Word



Fit to data Download Group by Filter totals Add data Edit

	May'2024	Jun'2024	Jul'2024	Aug'2024
	777.70	756.80	806.30	768.90
	852.50	810.70	968	884.40
	633.60	656.70	768.90	633.60

### Comments

Current

New

**AM Alex Muller**

Feb'2024 Morning Brew Hazelnut East US

reallocating capacity from Daily Delight to cover the demand per Vincent

April 4, 2024 at 12:34 PM

Reply

### Launch Demand Plan

2 | ...

Administrator changed the group name to Launch Demand Plan.

12:29 PM

Hey Vincent, looking at the capacity allocation for the new product launch, East US does not have enough allocated to

# Roles & security

Row level security

## Create new access rules

- ☒ Create rule
- ☐ Conditions
- ☐ Users
- ☐ Define access

### Create rule

Name \*

---

Description

---

# D365 roles & duties

Role name	Duty
Production planner	Maintain forecasts
Production planner	Maintain firming of planned orders
Production manager	Enable forecast process
Production planner	Maintain forecast planning
Production planner	Maintain demand forecasts
Sales manager	Maintain demand forecast
Production manager	Enable the demand planning process

# Power Platform roles

- **Basic User**

- This is a standard security role that's included with Power Platform.
- All users of Demand planning must have this role in order to access the app.

- **System Administrator**

- This is a standard security role that's included with Power Platform. It also grants access to admin features within Demand planning.
- Install the app, add users, assign roles, manage teams, and so on.
- View, create, and manage tables, relations, and data.
- Create and manage imports and exports.
- View and create transformations based on requests from the demand planning manager.
- Monitor jobs (imports, calculations, forecasts, transformations, and exports).

# Power Platform roles

- **Demand Planning Manager**

- Configure the demand planning app (role-level security, time fences, worksheets).
- View and create planning data (forecasts and calculations).
- View and create tables and import data from excel.
- View and create transformations.
- View and create worksheets.
- Export plans when they're ready to share with Supply Chain Management.

- **Demand Planning Contributor**

- View worksheets (see shared worksheets and save their own views).
- Controlled by row-level access and can edit data they have access to.
- Collaborate using Microsoft Teams and in-app comments.

- **Demand Planning Service Role**

- An internal role required by Demand planning, which uses this role for internal operations.
- You should never assign this role to a human user.

# Licensing: D365 Supply Chain Management Premium

Optimize your licensing mix to ensure users have access to the right capabilities

Advanced planning capabilities built into your solution

- Demand planning capabilities – 10 seat minimum
- Additional capacity and storage entitlements

**Dynamics 365 Supply Chain Management**

Scalable, composable, secure, and streamlined solution for an intelligent supply chain.





**\$180.00**  
User/month

**Dynamics 365 Supply Chain Management Premium**

Enhance supply chain adaptability and performance with advanced planning, analytics, and insights.

**\$300.00**  
User/month

[Supply Chain Management Pricing](#)

	Dynamics 365 Supply Chain Management	Dynamics 365 Supply Chain Management Premium
 Core supply chain management	●	●
 Demand planning	◆	●
Read-only access, cell commenting	●	●
Full access – create, edit, analyze, publish		●
 AI and machine learning	●	●
 Capacity and storage		●
Higher entitlements		●



Which organizations  
would benefit from the  
Microsoft Demand  
Planning tool?



# CHAPTER #3

Demand Planning Demo – Forecast demand against Capacity



# Demand vs. Supply

Analyse capacity  
plans against  
Sales Forecasts.

Create S&OP

## Launch Demand Plan - Saved

Time Series

Output General

Capacity planning \* ▾

Insights

Timeline



Edit, save,  
upload to  
D365

Analyse capacity  
plans against  
Sales Forecasts

## Create new export data profile

- ☒ Get started
- ☒ Configure data provider
- ☐ Select output data
- ☐ Map columns
- ☐ Define data export rules
- ☐ Set run schedule
- ☐ Review And Finish

### Configure data provider

Connect to datasource.



Microsoft finance and operations apps

#### Connection credentials

Connection URL \*

Edit, save,  
upload to  
D365

Analyse capacity  
plans against  
Sales Forecasts

☰

🏠

★

🕒

📅

☰☰☰

☰

Finance and Operations

Master planning > Workspaces > Master planning

← Supply schedule   Firming history   Unfinished planning processes   Planned intercom

My view ▾

Master planning

Master plan

Master

^ Summary of the current plan

Planned orders

Calculated delays

Actions

Master

Last run

15/05/20

🔄 Run

# CHAPTER #4

MRP & Demand Driven MRP with  
Microsoft Dynamics 365 SCM





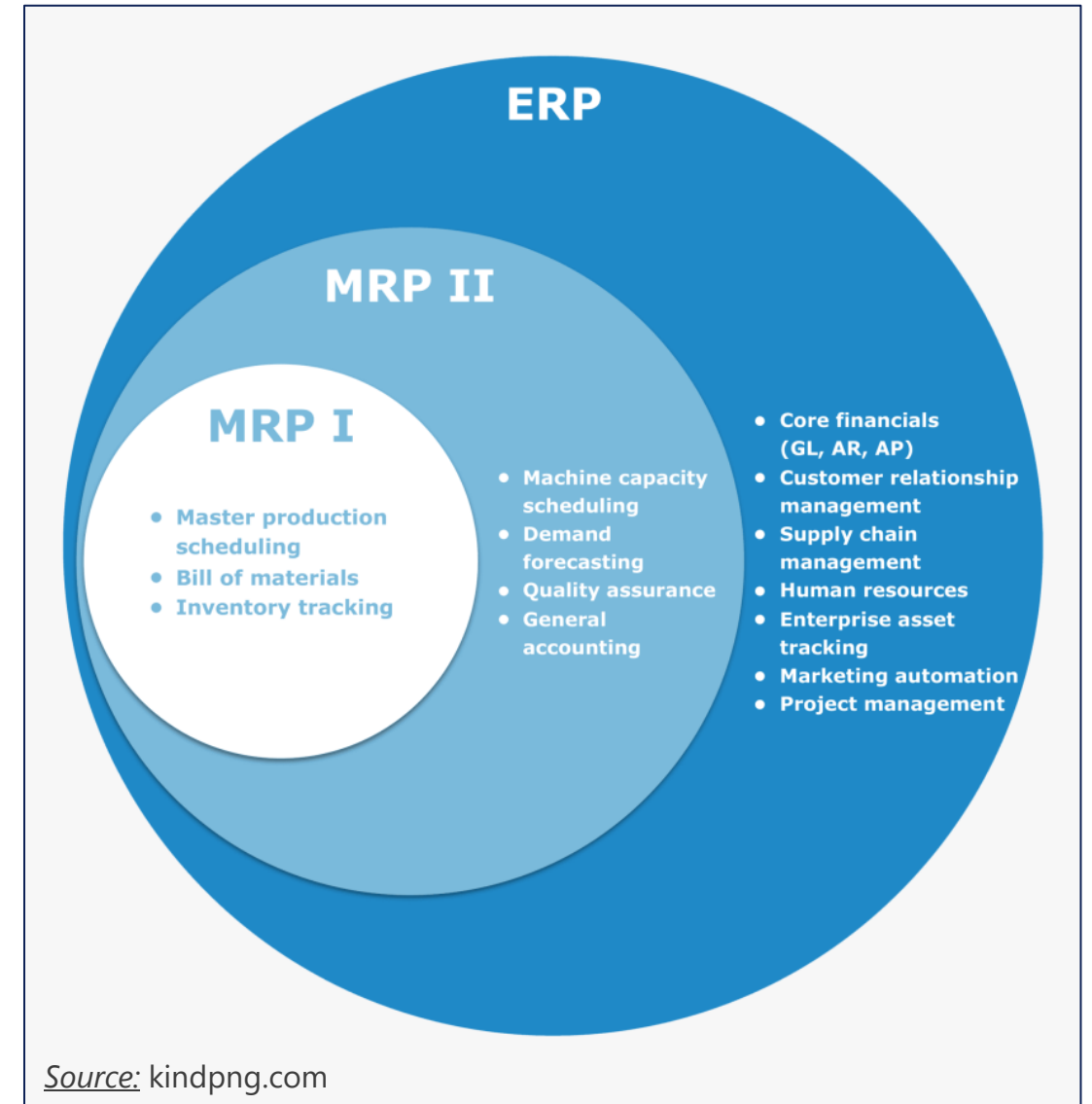
# Material Requirements Planning (MRP) evolution to ERP

**Material Requirements Planning (MRP)** was released in the early 1960s, with a primary focus on determining the **materials needed for production**. It addressed **which items were needed, how much and when**.

**Manufacturing Resource Planning (MRP II)** emerged in the 1980s, to address **global supply chain planning**. Features added included **general accounting, quality management, and capacity scheduling**.

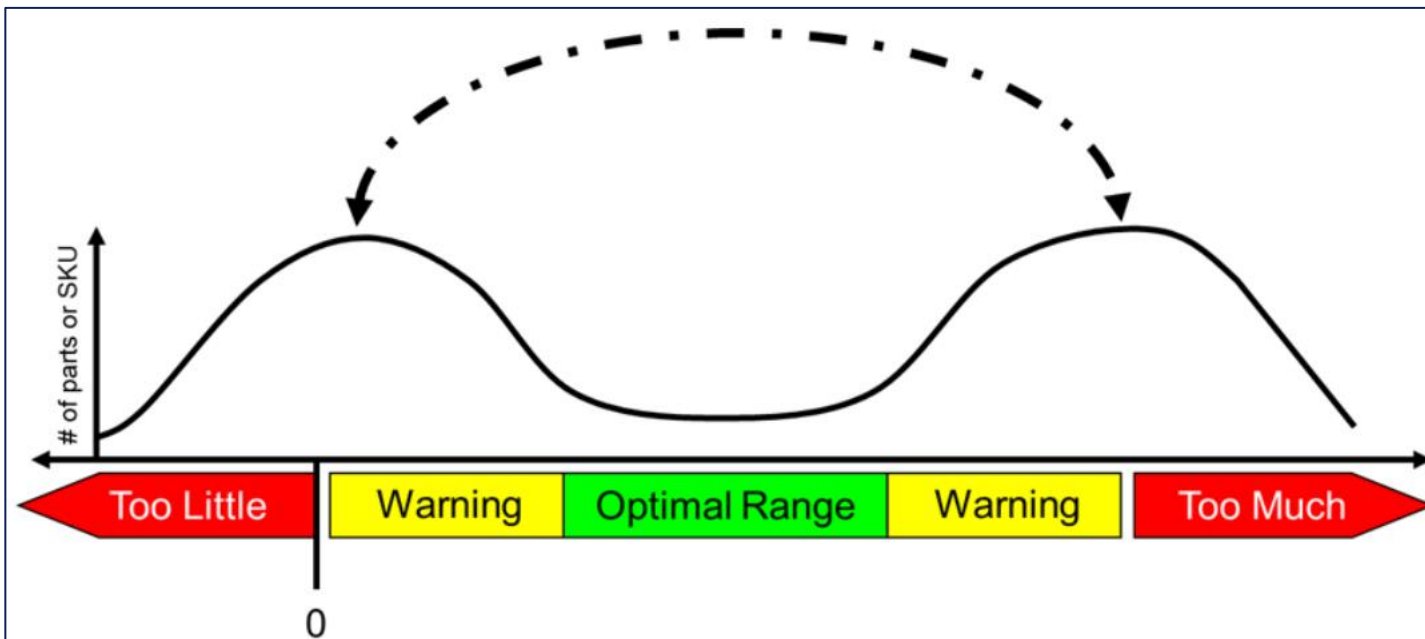
**Enterprise Resource Planning (ERP)** was the next evolution, **extending beyond manufacturing to cover inventory management, finances, sales and customer management, Human Resources (HR), etc.**

- Alongside came the influx of **Advanced Planning and Scheduling (APS)** systems, to **address the shortcomings of ERP systems for planning and optimization of resources**.



# Conventional MRP Planning

With MRP, companies typically struggle with having the wrong inventory or too much inventory or both.



Source: Why Conventional Planning Fails, Chad Smith and Carol Ptak, Demand Driven Institute

The bi-modal distribution shown in the picture is typical in the industry. It is **"too much of the wrong and too little of the right" at any point in time and too much in total over time.**

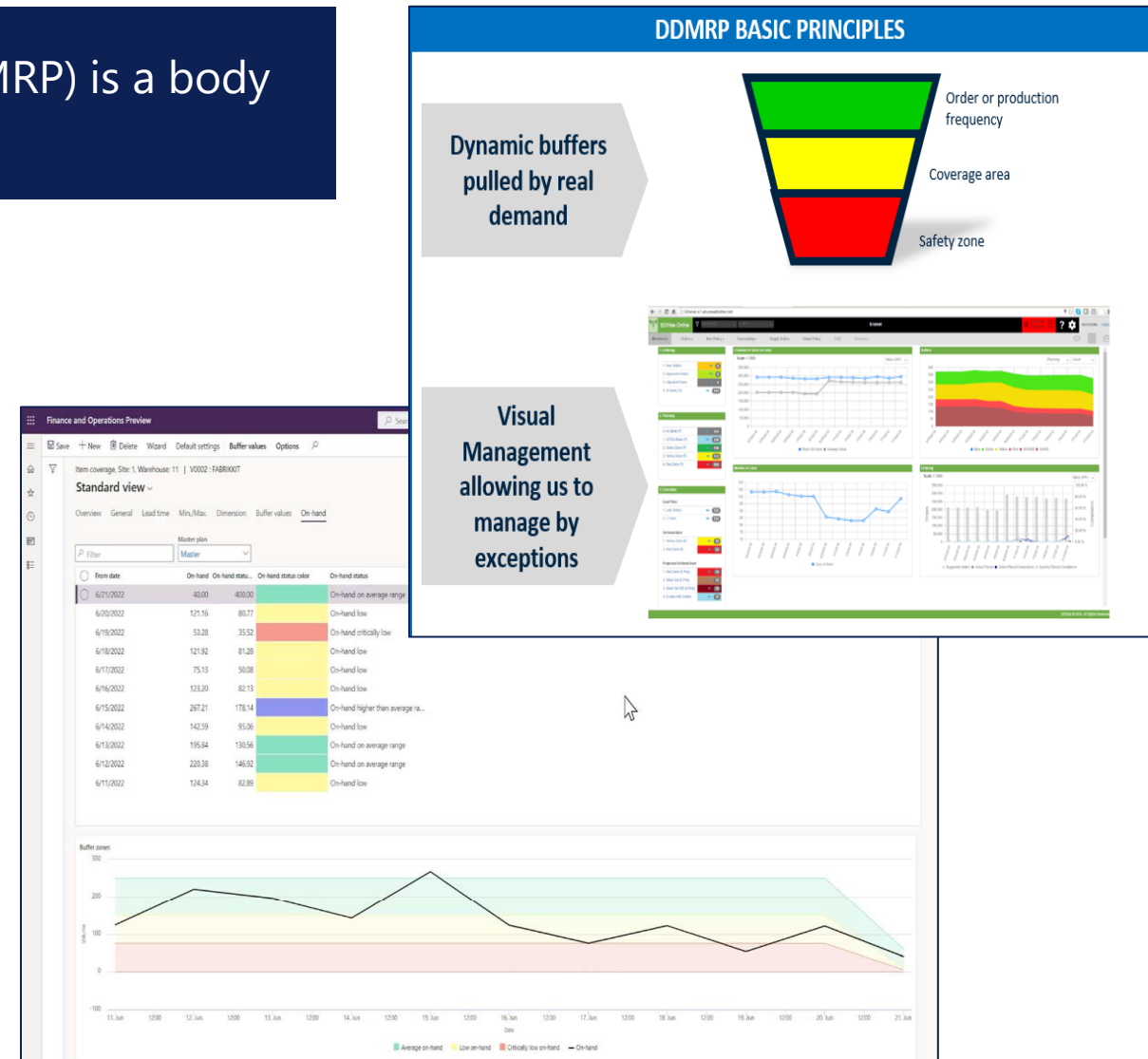
- Across all the parts of a company's supply chain, you tend to find the **fewest parts in the optimal zone**, plus, an **individual part stays in the optimal zone for a short amount of time**.
- You tend to see that most parts **oscillate between the two extremes of Too Little and Too Much**.
- This oscillation **occurs with every MRP run**, resulting in a planner or buyer having **many parts in both extremes simultaneously**.

# Demand Driven Material Requirements Planning (DDMRP)

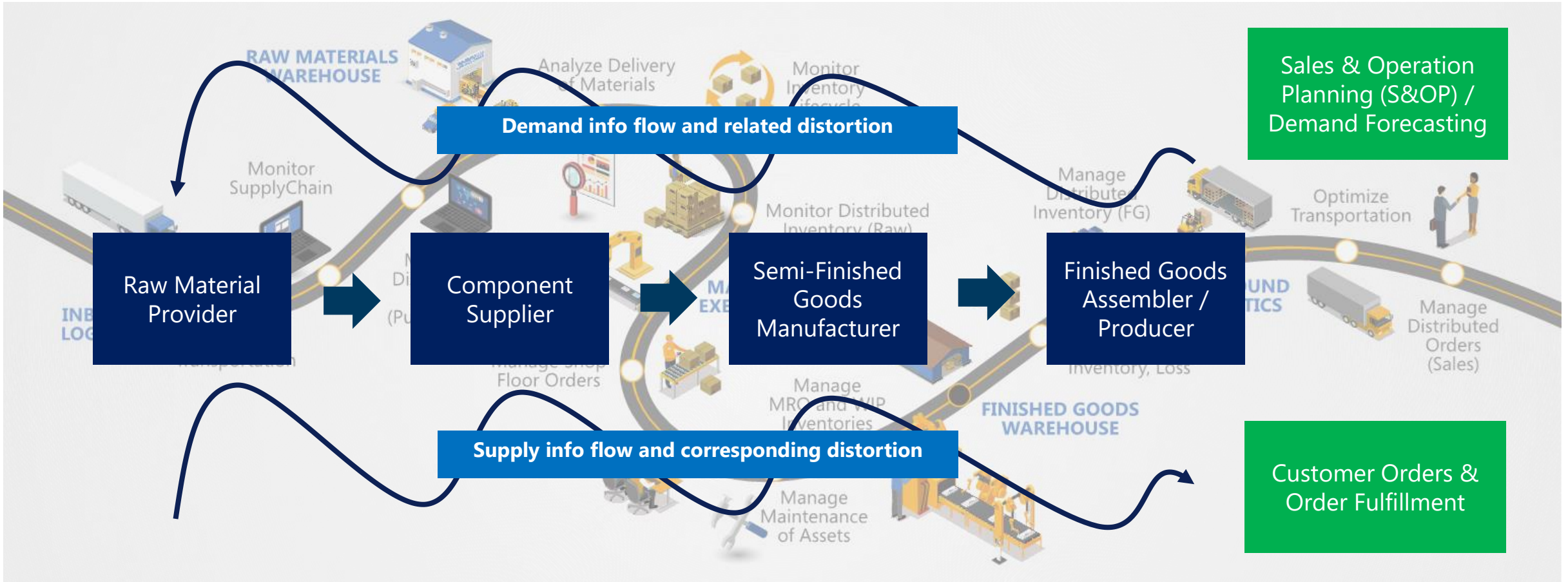
**Demand Driven Material Requirements Planning (DDMRP)** is a body of knowledge that has come of age in the last 10+ years.

DDMRP combines aspects of **Material Requirements Planning (MRP)** and **Distribution Requirements Planning (DRP)** with the pull and visibility emphases found in **Lean** and the **Theory of Constraints** and the variability reduction emphasis of **Six Sigma**.

DDMRP is a formal multi-echelon planning and execution method to **protect and promote the flow of relevant information** through the establishment and management of **strategically placed decoupling point stock buffers**.

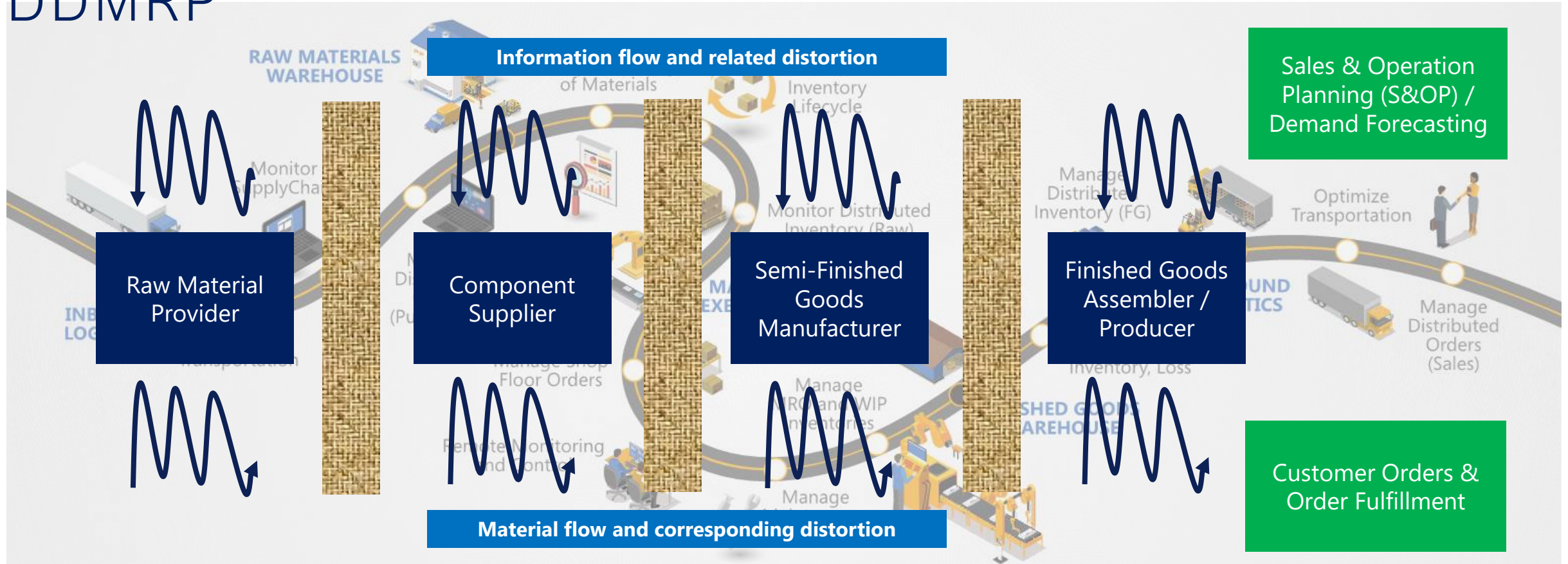


# Information Flow and the Bullwhip Effect through the Manufacturing Value Chain





# Material & Information Flow after Decoupling with DDMRP



With Decoupling, the DDMRP process becomes **akin to executing multiple MRP runs**. The net effect **isolates impact to limited areas rather than the global schedule**, thereby **reducing the bull-whip effect of schedule changes downstream**.

Note that the location of the **Decoupling Points** shown are for illustration only. It is unlikely that they will be placed exactly bet' sub-processes as shown here; more realistically, they will be placed at the appropriate points where **independence can be imposed in the supply chain**.

# MRP vs. DDMRP

Per Bing ChatGPT Copilot

## MRP (Material Requirements Planning):

- Push System: MRP starts production based on forecasting information to anticipate future demand.
- Input: It calculates requirements for each level of a bill of material using end item demand as input.
- Enacted Orders: MRP generates purchase orders for raw materials or external components and manufacturing orders for internally manufactured products.
- Safety Stocks: MRP relies on safety stocks for finished products and raw materials to ensure material availability.
- Issues:
  - MRP forces the use of forecasted demand, which may not align with actual customer demand.
  - Safety stocks are not planned to be consumed, leading to bullwhip effects in the supply chain.
  - MRP is better suited for make-to-order scenarios but poorly manages inventory.

## DDMRP (Demand Driven Material Requirements Planning):

- Pull System: DDMRP plans inventories and materials based on current demand.
- Dynamic Inventory Buffers: DDMRP decouples the supply chain by creating independent planning horizons. It uses dynamic inventory buffers triggered by current stock levels, open supply orders, and qualified demand.
- Demand-Driven Planning: DDMRP uses sales orders or actual consumption as demand signals and propagates them through the supply chain using pull signals.
- Stock Buffers: Unlike safety stocks, DDMRP stock buffers absorb variability from both directions, preventing bullwhip effects.
- Firm Orders: All orders generated in a DDMRP system are firm, unchanging, and easily prioritized.

In summary, while MRP has been widely used since the 1970s, **DDMRP offers higher performance at a lower cost.**

DDMRP combines the best concepts from MRP, Lean Mfg, & Theory of Constraints, addressing traditional MRP issues while maintaining relevant aspects of material requirements planning and distribution requirements planning.



# CHAPTER #5

Showcase of Demand Driven MRP with  
Microsoft Dynamics 365 SCM



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https://hint-crp-demo.sandbox.operations.eu.dynamics.com/?cmp=USPI&mi=ReqDDMRPWorkspace

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⬇️

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Finance and Operations

Master planning > Workspaces > Demand driven MRP

USPI 🔍 🔔 😊 ⚙️ ? AL

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📁 Modules

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💰 Accounts receivable

📄 Asset leasing

📄 Asset management

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📄 Common

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💰 Cost management

💰 Credit and collections

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💰 Expense management

💰 Fixed assets

⏏ Expand all

📄 Collapse all

📁 Workspaces

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📄 Demand driven MRP

📁 Master planning

📄 Planned orders

📄 Planned orders simplified

📄 Calculated delays

➤ Actions

📄 Supply schedule

📄 Sequenced planned orders

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📄 Decoupling points status by net flow

📄 Decoupling points status by on-hand

📄 Planned orders for decoupling points

📄 Calculate buffer values

📄 Cleanup decoupling point buffer values

📄 Decoupled lead time

📁 Forecasting

📁 Demand forecasting

📄 Generate statistical baseline forecast

📄 Adjusted demand forecast

📄 Authorize adjusted demand forecast

📄 Statistical baseline forecast generation history

📁 Manual forecast entry

📄 Demand forecast lines

📄 Items

📄 Customers

📄 Customer groups

📄 Vendors

📄 Vendor groups

📄 Supply forecast lines

📄 Forecast planning

📄 Parallelized forecast import

📁 Inquiries and reports

📁 Master planning

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📄 Capacity requirement statistics

📄 Unfinished planning processes

📄 Firming history

📁 Intercompany master planning

📄 Incoming planned intercompany demand

📄 Outbound planned intercompany demand

📄 Intercompany supply and demand

📁 Setup

📄 Master planning parameters

📄 Item coverage

➤ Coverage

📄 Coverage groups

📄 Minimum/maximum keys

📄 Reduction keys

➤ Plans

📄 Safety stock journal names

➤ Demand forecasting

📄 Intercompany planning groups

📁 Scheduling

📄 Scheduling parameters

📄 Scheduling parameters by site

➤ Sequencing

📄 Plan groups

📄 Planned order cost calculation

📄 Deprecated features

📄 Planning Optimization parameters

📄 Planning Optimization fit analysis

📄 Planning priority models

🔄

📄

Order date

Vendor

Statu

5/22/2024

Unproc

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←🔍Options

🔄📧

Demand driven MRP

Master planMRP

Summary

Master planning

COMPLETED

Last run on5/23/2024 07:34:57 AM

🔄 RunHistory

DECOUPLING POINTS STATUS BY NET FLOW

2

Below minimum

2

Between min and reorder

2

Above reorder point

DECOUPLING POINTS STATUS BY ON-HAND

🔄

Calculate buffer values

2

On-hand critically low

0

On-hand low

3

On-hand on average range

2

On-hand higher than average range

Planned orders for decoupling points

All

Net flow below minimum

Net flow between min and reorder

🔍Filter

	Number	Reference	Item number	Product name	Requirement qu...	Unit	Requirement date	Delivery date	Order date	Vendor	Statu
	0254000003	Planned production orders	10116	Screwdriver FG	708.00	pcs	5/28/2024	5/28/2024	5/23/2024		Unproc

←

↺

https://hint-crp-demo.sandbox.operations.eu.dynamics.com/?cmp=USPI&mi=ReqGroup

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Finance and Operations

Master planning > Setup > Coverage > Coverage groups

USPI 🔍 🔔 😊 ⚙️ ? AL

⏪ ⏴ Edit + New 🗑️ Delete Options 🔍

Standard view ▾

Coverage groups

Filter

DD-H-H  
DDMRP High LT High Var

DD-L-L  
DDMRP Low LT Low Var

Group  
Default

PER-14  
Period 14 days

PrioPct  
Priority percentage Max

PrioSplit  
Priority simple split

REQ  
Requirement coverage

Coverage group

Name

Calendar

DD-H-HDDMRP High LT High Var

General

COVERAGE

Coverage code

Decoupling point

Coverage period

Coverage time fence (days)

100

Negative days

2

Positive days

100

Planning priority model

PEGGING SEQUENCE

Consume on-hand inventory

Before all other supply

Use latest possible supply

No

OTHER

Use the specified BOM or formula vers...

No

Use the specified route version

No

Period template

Other

PLANNED ORDER

Requested production status

Scheduled

Automatic firming time fence (days)

0

Freeze time fence (days)

0

BOM explosion time fence (days)

100

Capacity scheduling time fence (days)

100

REQUISITION

Approved requisitions time fence (days)

0

FORECAST PLAN

Forecast plan time fence

100

Reduction key

Orders

Include intercompany orders

No

Include customer forecast in the dema...

No

SAFETY MARGINS IN DAYS

Receipt margin added to requirement ...

0

Issue margin deducted from requirem...

0

Reorder margin added to item lead time

0

DDMRP PARAMETERS

Lead time factor

0.80

Variability factor

0.80

Min, max, and reorder-point period

Daily

AVERAGE DAILY USAGE

Average daily usage based on

Blended

Past period (days)

2

Forward period (days)

2

Relative weight of past period for blen...

20.00

Relative weight of forward period for ...

80.00

Forecast model

Current F

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Demand driven MRP

Master plan

MRP

Summary

COMPLETED

Master planning

Last run on

5/23/2024 07:34:57 AM

🔄RunHistory

DECOUPLING POINTS STATUS BY NET FLOW

2

Below minimum

2

Between min and reorder

2

Above reorder point

DECOUPLING POINTS STATUS BY ON-HAND

🔄

Calculate buffer values

2

On-hand critically low

0

On-hand low

3

On-hand on average range

2

On-hand higher than average range

Planned orders for decoupling points

All

Net flow below minimum

Net flow between min and reorder

🔍Filter

	Number	Reference	Item number	Product name	Requirement qu...	Unit	Requirement date	Delivery date	Order date	Vendor	Statu
	0254000003	Planned production orders	10116	Screwdriver FG	708.00	pcs	5/28/2024	5/28/2024	5/23/2024		Unproc

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Options

Demand driven MRP

Master plan

MRP

Summary

DECOUPLING POINTS STATUS BY NET FLOW

Master planning

Last run on  
5/23/2024 07:34:57 AM

Run History

2

Below minimum

2

Between min and reorder

2

Above reorder point

DECOUPLING POINTS STATUS BY ON-HAND

Calculate buffer values

2

On-hand critically low

0

On-hand low

3

On-hand on average range

2

On-hand high

Planned orders for decoupling points

All

Net flow below minimum

Net flow between min and reorder

Filter

Number	Reference	Item number	Product name	Requirement qu...	Unit
0254000003	Planned production orders	10116	Screwdriver FG	708.00	pcs

Planning Optimization

Parameters

Master plan

MRP

Enable auto-firming

No

PRODUCTION

BOM levels to include

0

Include all BOM levels

No

Records to include

Filter

ITEMS

Item number

Run in the background

Recurrence Alerts

Batch processing

No

Task description

Planning Optimization

Batch group

Private

No

Critical Job

No

Monitoring category

Undefined

OK

Cancel

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←✎+ New🗑DeleteView planned ordersManage buffer valuesRun master planningDisplay dimensionsOptions🔍

Decoupling points status by net flow

Standard view ▾

🔍Filter

Master planMRP▾

Last planning run5/23/2024 07:46:41 AM

<input type="radio"/>	Item number	Product name	Warehouse	On-hand	On order	Qualified demand	Unit	Net flow	Planning priority	Net flow status		Planned order quantity	Minimum	⋮
<input checked="" type="radio"/>	10116	Screwdriver FG	20	150.00	249.00	329.00	pcs	70.00	9.00	Below minimum		708.00	346.00	
	20480	Steel bar RM	20	5,000.00	500,000.00	104,700.00	g	400,300.00	80.06	Above reorder point		0.00	10,000.00	
	307921	Box Slide small	20	300.00	0.00	0.00	pcs	300.00	150.00	Above maximum		0.00	50.00	
	38140	Screwdriver head RM	20	1,000.00	0.00	0.00	g	1,000.00	20.00	Between min and reorder		4,000.00	50.00	
	38142	Screwdriver shaft RM	20	1,000.00	0.00	0.00	g	1,000.00	50.00	Between min and reorder		1,000.00	50.00	
	65242	Screwdriver handle	20	1,000.00	0.00	0.00	g	1,000.00	20.00	Above reorder point		0.00	90.00	
	81547	Cel acetate pellet RM	20	1,500.00	0.00	9,000.00	g	-7,500.00	0.00	Below minimum		9,500.00	20.00	

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https://hint-crp-demo.sandbox.operations.eu.dynamics.com/?cmp=USPI&mi=ReqPlannedOrderForm

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Master planning > Workspaces > Demand driven MRP

USPI 🔍 🗨️ 😊 ⚙️ ? AL

← + New 🗑️ Delete ⌚ Firm ⌚ Firm all ✓ Approve View Planned order Options 🔍

Planned orders simplified | 10116 : #000000100001EC8F

LinkedPartView---68719945052 ▾

🔍 Filter

Plan  
MRP ▾

○	Number	Reference	Item number	Product name	Requirement qu...	Unit	Requirement date	Delivery date	Order date	Vendor	Status	Planning priority	⋮
○	0255000003	Planned production orders	10116	Screwdriver FG	708.00	pcs	5/28/2024	5/28/2024	5/23/2024		Unprocessed	9.00	

100

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🔒 https://hint-crp-demo.sandbox.operations.eu.dynamics.com/?cmp=USPI&mi=ReqPlannedOrderForm

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Finance and Operations

Master planning > Workspaces > Demand driven MRP

←+ New🗑️ Delete🕒 Firm🕒 Firm all✔️ ApproveViewPlanned orderOptions🔍

Planned orders simplified | 10116 : #000000100001EC8F

LinkedPartView---68719945052 ▾

🔍 Filter

PlanMRP ▾

○ Number	Reference	Item number	Product name	Requirement qu...	Unit	Requirement date	Delivery date
○ 0255000003	Planned production orders	10116	Screwdriver FG	708.00	pcs	5/28/2024	5/28/2024

Firming?

Parameters

Firm the current planned order.

Update markingNo ▾

PURCHASE ORDERS

Group by vendor🔵 Yes

Group by buyer group🔵 No

Group by periodNo ▾

Group by planning priority🔵 No

Run in the background

RecurrenceAlerts

Batch processing🔵 No

Task descriptionFirming

Batch group▾

Private🔵 No

Critical Job🔵 No

Monitoring categoryUndefined ▾

Start date: 5/23/2024 (07:47:26 am) (GMT) Coordinated Universal Time

OK(Alt+Enter)

OK

Cancel

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Finance and Operations

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Decoupling points status by net flow

Decoupling points status by on-hand

Demand driven MRP

Master planning

Planned orders

Planned orders for decoupling points

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Master planning > Master planning > DDMRP > Decoupling points status by net flow

USPI

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Notifications

Help

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Delete

View planned orders

Manage buffer values

Run master planning

Display dimensions

Options

net flow

Master plan

MRP

Last planning run

5/23/2024 12:51:49 PM

Product name	Warehouse	On-hand	On order	Qualified demand	Unit	Net flow	Planning priority	Net flow status	Planned order quantity	Minimum
newdriver FG	10	7.00	30.00	139.00	pcs	-102.00	0.00	Below minimum	0.00	0.00
newdriver FG	20	150.00	249.00	329.00	pcs	70.00	9.00	Below minimum	708.00	346.00
el bar RM	20	5,000.00	500,000.00	94,500.00	g	410,500.00	82.10	Above reorder point	0.00	10,000.00
x Slide small	20	300.00	0.00	0.00	pcs	300.00	150.00	Above maximum	0.00	50.00
newdriver head RM	20	1,000.00	0.00	0.00	g	1,000.00	20.00	Between min and reorder	4,000.00	50.00
newdriver shaft RM	20	1,000.00	0.00	0.00	g	1,000.00	50.00	Between min and reorder	1,000.00	50.00
newdriver handle	20	1,000.00	0.00	0.00	g	1,000.00	20.00	Above reorder point	0.00	90.00
acetate pellet RM	20	1,500.00	0.00	9,000.00	g	-7,500.00	0.00	Below minimum	9,500.00	20.00



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https://hint-crp-demo.sandbox.operations.eu.dynamics.com/?cmp=USPI&mi=ReqDecouplingPointStatusByOnHand

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Finance and Operations

Master planning > Master planning > DDMRP > Decoupling points status by on-hand

←

Display dimensions

Options

🔍

Decoupling points status by on-hand

Standard view ▾

🔍 Filter

Master plan  
MRP ▾

Last planning run  
5/23/2024 07:46:41 AM

○	Item number	Product name	Warehouse	On-hand status (%of min)	On-hand	On-hand status	On-hand status color
	10116	Screwdriver FG	20	43.35	150.00	On-hand critically low	🔴
✓	20480	Steel bar RM	20	50.00	5,000.00	On-hand critically low	🔴
	307921	Box Slide small	20	600.00	300.00	On-hand higher than average range	🟡
	38140	Screwdriver head RM	20	2,000.00	1,000.00	On-hand on average range	🟢
	38142	Screwdriver shaft RM	20	2,000.00	1,000.00	On-hand higher than average range	🟡
	65242	Screwdriver handle	20	1,111.11	1,000.00	On-hand on average range	🟢
	81547	Cel acetate pellet RM	20	7,500.00	1,500.00	On-hand on average range	🟢

Standard view ▾

Product information

Details Engineer Inventory Purchase Plan

IDENTIFICATION

Product number

20480

Description

Product name

Steel bar RM


Search name

EMGR075f14F0

COMPANY-SPECIFIC IDENTIFICATION

Item number

20480



Search name

DDMRP

CLASSIFICATIONS AND GROUPS

Product type

Item

Default order type

Purchase order

Item group

Pellets


Coverage group

PER-14

Product lifecycle state

Operational

EXTERNAL REFERENCES

Code	External code definition	Value
<div></div>		

Close

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https://hint-crp-demo.sandbox.operations.eu.dynamics.com/?cmp=USPI&mi=EcoResProductDetailsExtended

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📧

Open purchase order lines | 000013 : 20480

Standard view ▾

Overview Purchase order

Inventory ▾

☐ Purchase order

Line number

Item number

Procurement category

Requested receipt date

Deliver remain...

Quantity

CW deliver re...

CW quantity

⋮

☐ 000013

1

20480

6/30/2024

500,000.00

500,000.00

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https://hint-crp-demo.sandbox.operations.eu.dynamics.com/?cmp=USPI&mi=EcoResProductDetailsExtended

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ProductPurchaseSellManage inventoryEngineerPlanManage projectsManage costsCommerceGeneralSetupOptions

🔍🔗📄🔄📧

Released product details | Standard view ▼

20480 : Steel bar RM

General20480▼

Purchaseg | ALL | 0.00▼

Promote▼

Deliver▼

Sellg | ALL | 0.00▼

Foreign trade-- | --▼

Manage inventoryg▼

Engineerg | BOM^

BOM unitg

Constant scrap

Variable scrap

Costing level0

Planning level0

Cost calculation level0

PhantomNo

Auto-report as finishedNo

MEASUREMENT

Height

Width

Depth

Density

CALCULATION

Calculation group

PRODUCTION

Production pool

Production group

Property

ArrivalNo

Flushing principleStart

Release to warehouse

Allow partial reservation

FORMULA PLANNING

Production typeBOM

Planning formula

PlanPER-14^

100

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⏪≡✏️Edit➕New🗑️Delete

ProductPurchaseSellManage inventoryEngineerPlanManage projectsManage costsCommerceGeneralSetupOptions🔍

View

Purchase prices

Line discount

Multiline discount

Total discount

Trade agreements

View trade agreements

Create trade agreements

Royalty

Approved vendor

Setup

Approved vendors

Effective period

Purchase order

Supply overview

Open purchase order lines

Period statistics

Invoice matching

Matching policy

Price tolerances

Related information

External item description

Supplementary purchase item

Purchaseg | ALL | 0.00⌵

Promote⌵

Deliver⌵

Sellg | ALL | 0.00⌵

Foreign trade-- | --⌵

Manage inventoryg⌵

Engineerg | BOM⌴

BOM unit

g

Constant scrap

Variable scrap

Costing level

0

Planning level

0

Cost calculation level

0

Phantom

☐ No

Auto-report as finished

☐ No

MEASUREMENT

Height

Width

Depth

Density

CALCULATION

Calculation group

PRODUCTION

Production pool

Production group

Property

Arrival

☐ No

Flushing principle

Start

Release to warehouse

Allow partial reservation

FORMULA PLANNING

Production type

BOM

Planning formula

Plan

PER-14⌴

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Options 🔍

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📄

Open purchase order lines | 000013 : 20480

Standard view ▾

Overview Purchase order

Inventory ▾

<input type="radio"/>	Purchase order	Line number	Item number	Procurement category	Requested receipt date	Deliver remain...	Quantity	CW deliver re...	CW quantity	⋮
<input type="radio"/>	000013	1	20480		6/30/2024	500,000.00	500,000.00			

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Progetto

HINT

New chat

Dell

Mageba

ROUTECO

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AL

Finance and Operations

Master planning > Master planning > DDMRP > Decoupling points status by net flow

⬅️

✎️ Edit

+ New

🗑️ Delete

View planned orders

Manage buffer values

Run master planning

Display dimensions

Options

🔍

🔗

📌

🔁

📧

🔍

Decoupling points status by net flow

Standard view ▾

🔍 Filter

Master plan

MRP ▾

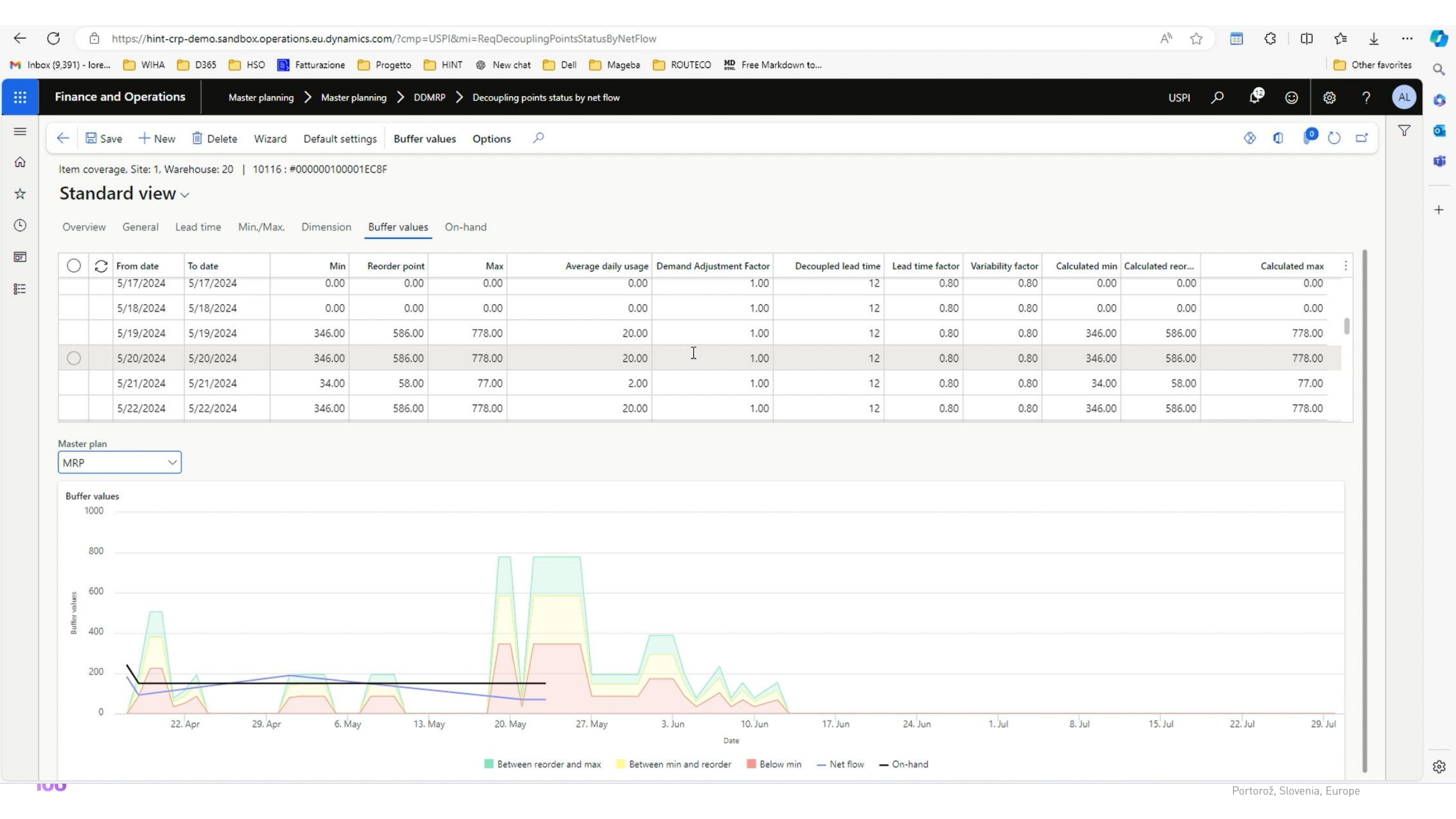
Last planning run

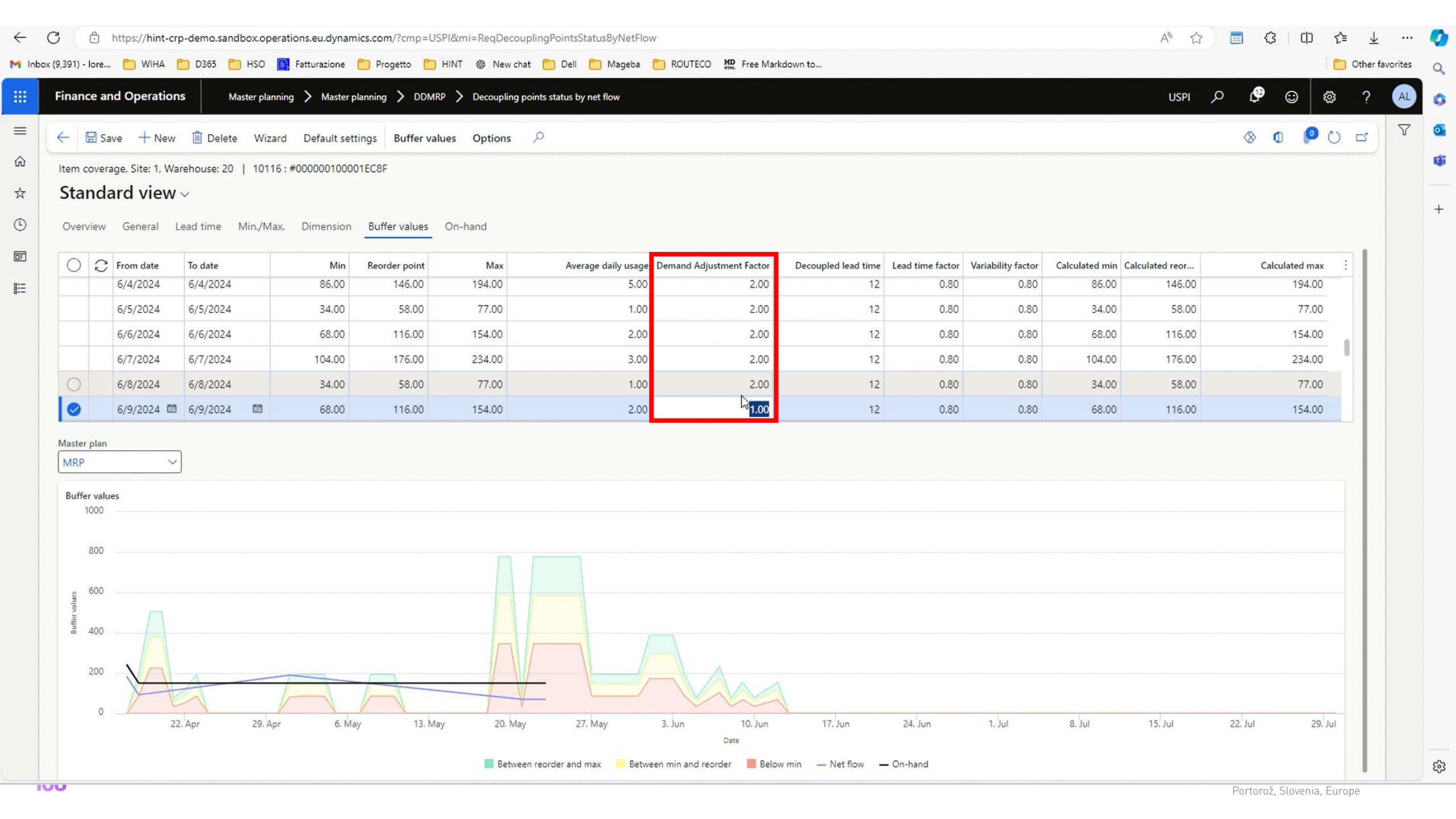
5/23/2024 07:46:41 AM

○	Item number	Product name	Warehouse	On-hand	On order	Qualified demand	Unit	Net flow	Planning priority	Net flow status		Planned order quantity	Minimum	⋮
○	10116	Screwdriver FG	20	150.00	249.00	329.00	pcs	70.00	9.00	Below minimum		708.00	346.00	
	20480	Steel bar RM	20	5,000.00	500,000.00	104,700.00	g	400,300.00	80.06	Above reorder point		0.00	10,000.00	
	307921	Box Slide small	20	300.00	0.00	0.00	pcs	300.00	150.00	Above maximum		0.00	50.00	
	38140	Screwdriver head RM	20	1,000.00	0.00	0.00	g	1,000.00	20.00	Between min and reorder		4,000.00	50.00	
	38142	Screwdriver shaft RM	20	1,000.00	0.00	0.00	g	1,000.00	50.00	Between min and reorder		1,000.00	50.00	
	65242	Screwdriver handle	20	1,000.00	0.00	0.00	g	1,000.00	20.00	Above reorder point		0.00	90.00	
	81547	Cel acetate pellet RM	20	1,500.00	0.00	9,000.00	g	-7,500.00	0.00	Below minimum		9,500.00	20.00	

100

Portorož, Slovenia, Europe







←↻🔗https://hint-crp-demo.sandbox.operations.eu.dynamics.com/?cmp=USPI&mi=ReqDecouplingPointsStatusByNetFlow

Inbox (9,391) - lore...WIHAD365HSOFatturazioneProgettoHINTNew chatDellMagebaROUTECOFree Markdown to...

Other favorites

Finance and Operations

Master planning > Master planning > DDMRP > Decoupling points status by net flow

USPI🔍🗨️😊⚙️?AL

←📁+ New🗑️ Delete🔮 Wizard⚙️ Default settingsBuffer valuesOptions🔍

Periodic setup

Calculate

Take Action

View

Add time periods

Delete selected time periods

Calculate decoupled lead time

Calculate Average Daily Usage

Calculate min, max and reorder point quantities

Accept all calculations

Discard all calculations

Accept calculations for selected rows

Discard calculations for selected rows

Decoupled lead time

	From date	To date	Min	Reorder point	Max	Average daily usage	Demand Adjustment Factor	Decoupled lead time	Lead time factor	Variability factor	Calculated min	Calculated reor...	Calculated max
	5/29/2024	5/29/2024	86.00	146.00	194.00	5.00	1.00	12	0.80	0.80	86.00	146.00	194.00
	5/30/2024	5/30/2024	86.00	146.00	194.00	5.00	1.00	12	0.80	0.80	86.00	146.00	194.00
	5/31/2024	5/31/2024	86.00	146.00	194.00	5.00	1.00	12	0.80	0.80	86.00	146.00	194.00
✓	6/1/2024	6/1/2024	173.00	293.00	389.00	5.00	2.00	12	0.80	0.80	173.00	293.00	389.00
✓	6/2/2024	6/2/2024	173.00	293.00	389.00	5.00	2.00	12	0.80	0.80	173.00	293.00	389.00
✓	6/3/2024	6/3/2024	173.00	293.00	389.00	5.00	2.00	12	0.80	0.80	173.00	293.00	389.00

Master plan

MRP

Buffer values

Between reorder and max

Between min and reorder

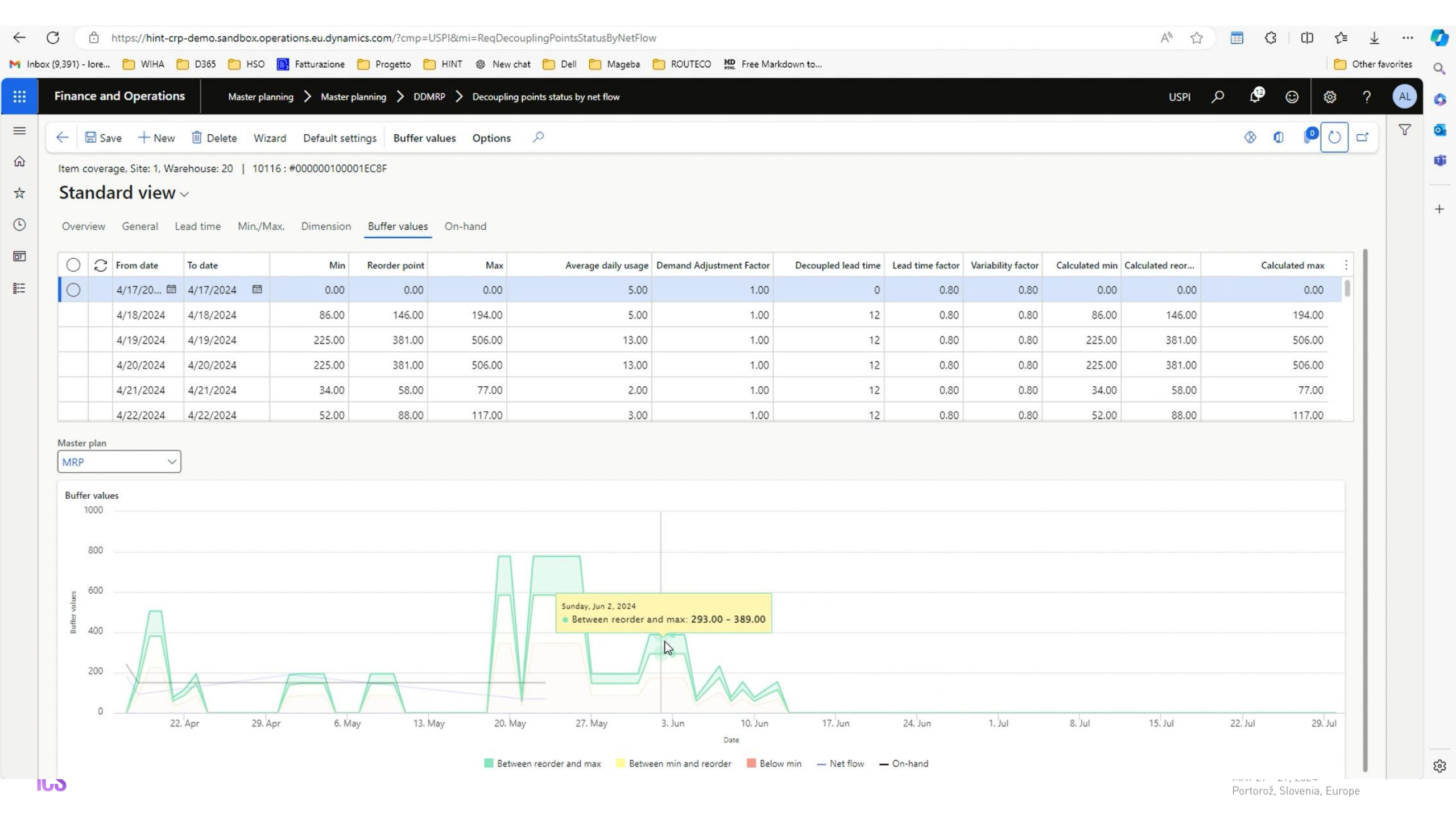
Below min

Net flow

On-hand

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# CHAPTER #6

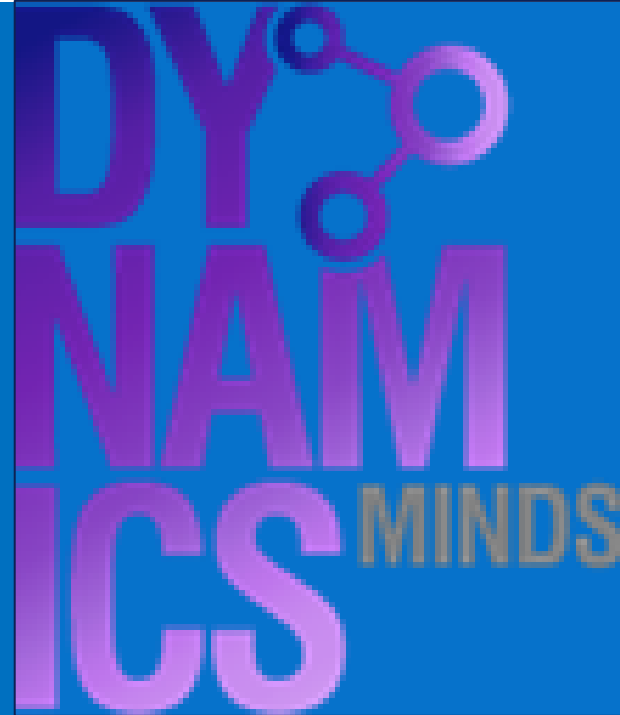
Summary & Go-Do's



# Summary – Today's Learning Objectives

## Taking Demand Planning and MRP to the next level with Microsoft solutions

- Learn how Microsoft Demand Planner can help organizations shore-up their forecasting, leading to lesser plan deviations and better inventory management.
- Learn how Microsoft Demand Planner supports organizations to collaborate, align demand & supply forecasts, and achieve Increased agility through integrated planning and execution.
- Learn how Demand Driven MRP (DDMRP) in D365 SCM improves the Sales & Operations Planning (S&OP) and Supply and Production Planning functions of an organization.



# Shameless self promotion:

My new blog: [Not just warehousing](#)



# Thank you!

