



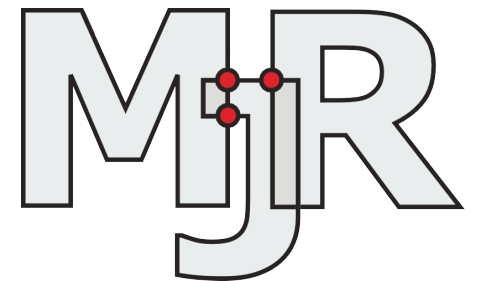
AI behind the scenes

@ Bernecker Group (XA customer)

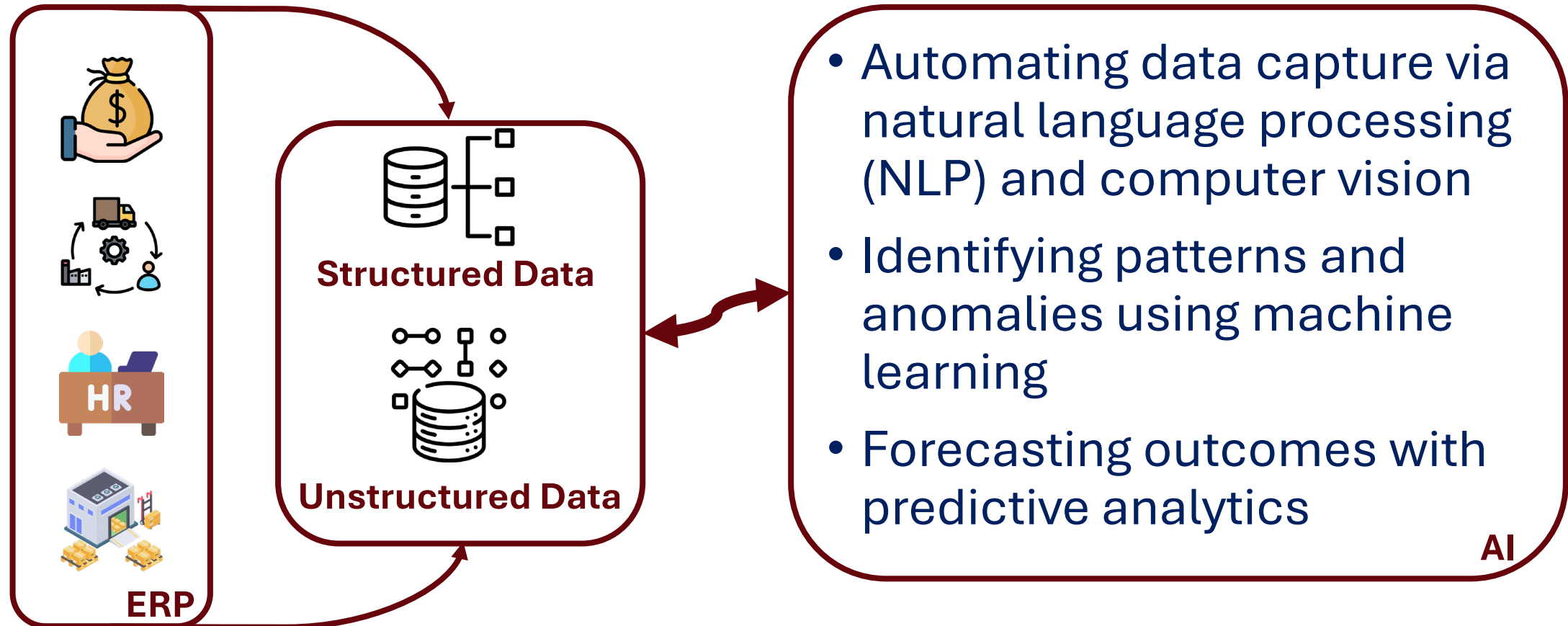
Speaker: Yusef Önkol IT-Consultant

Company: MJR GmbH, Knittlingen, Germany

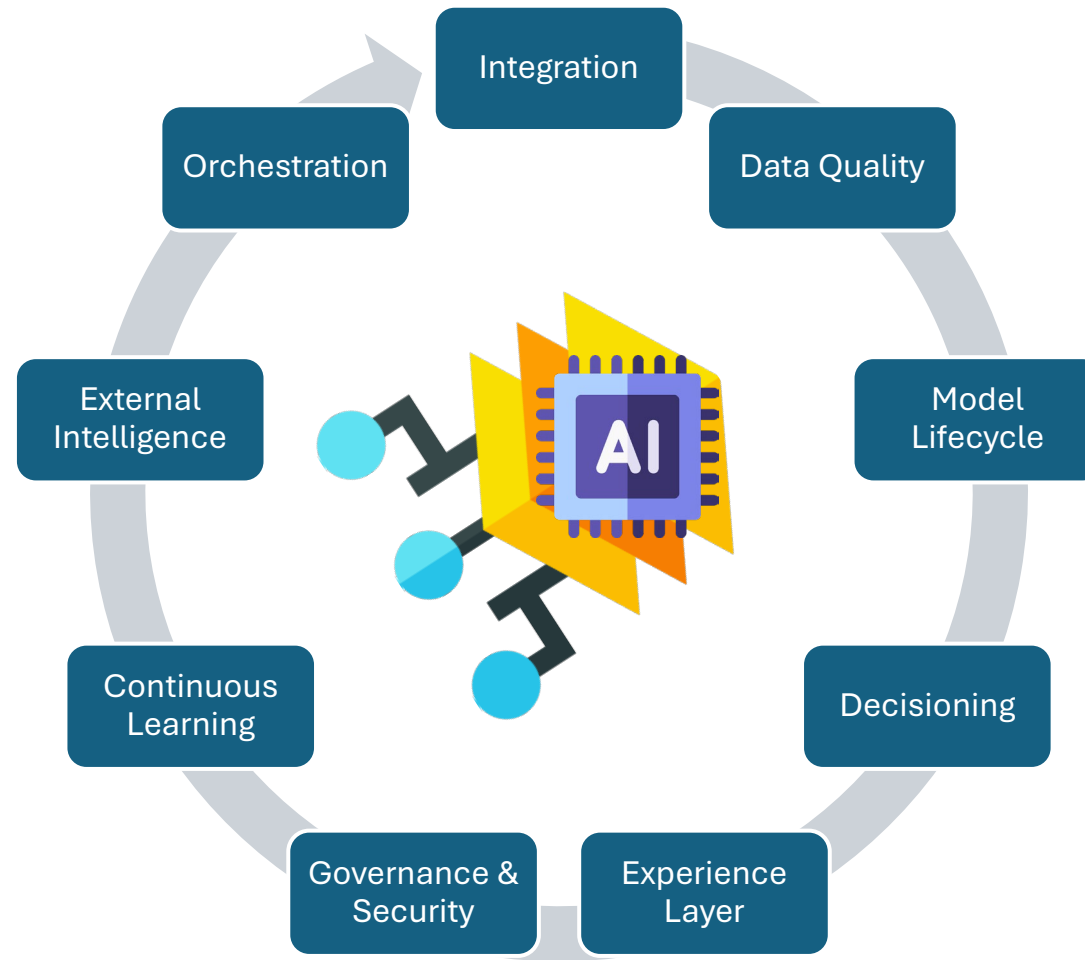
Email: yusef.oenkol@mjr.gmbh



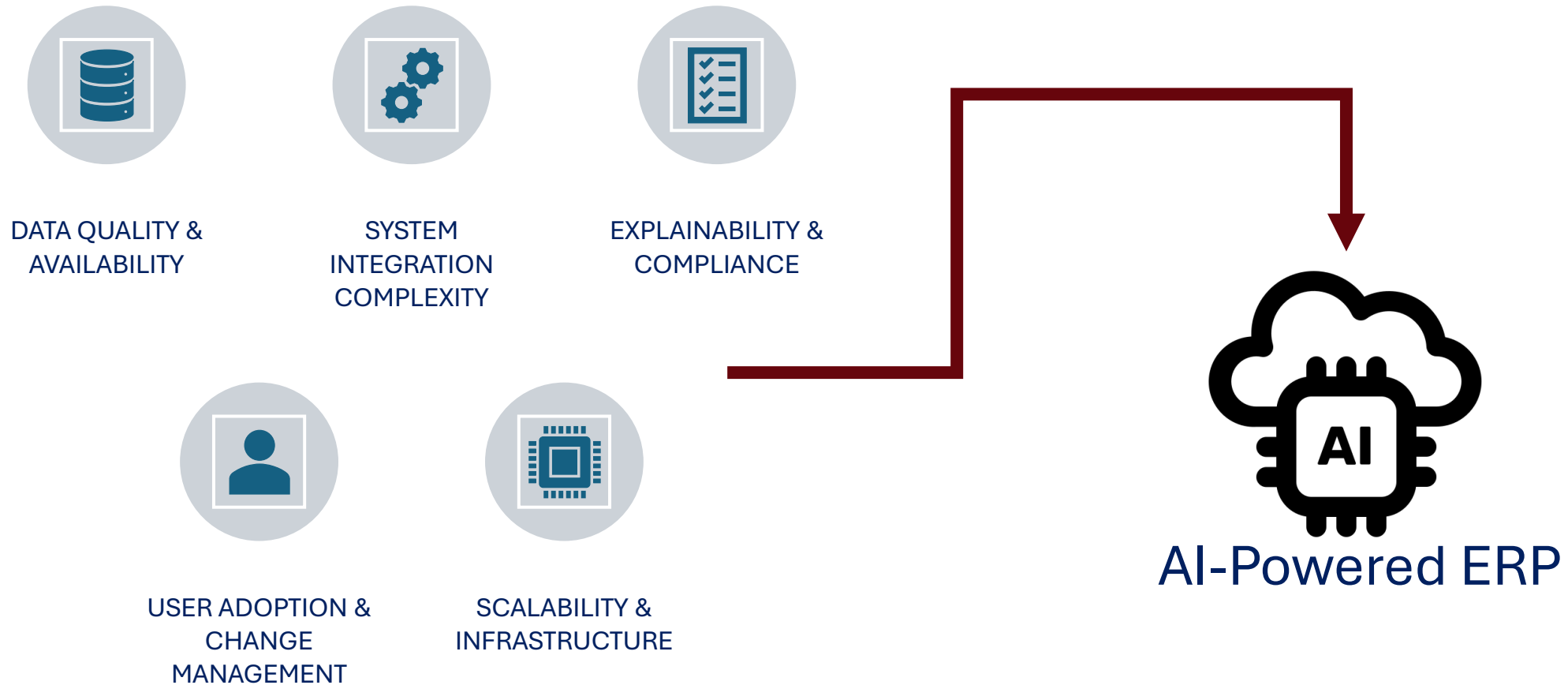
ERP & AI



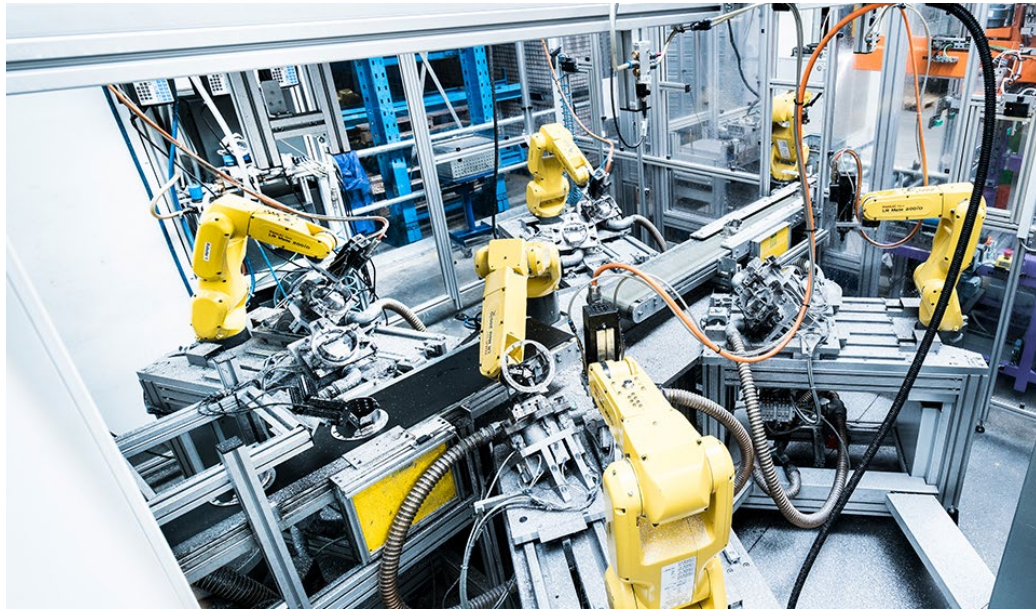
AI Layers – ERP Intelligence



Challenges behind the Scenes



AI in Manufacturing



AI Optimizes Manufacturing

AI improves manufacturing by optimizing processes and driving automation for higher efficiency and quality.

Data-Driven Decision Making

AI enables manufacturers to make data-driven decisions through predictive analytics and real-time insights.

Demand Forecasting

AI supports demand forecasting to enhance operational agility and respond swiftly to market changes.

AI-Based Demand Forecasting

Advanced Predictive Analytics

AI uses machine learning and big data to predict product demand more accurately than traditional methods.

Comprehensive Data Integration

AI forecasting integrates diverse data sources like ERP data, market trends and other relevant information for real-time insights.

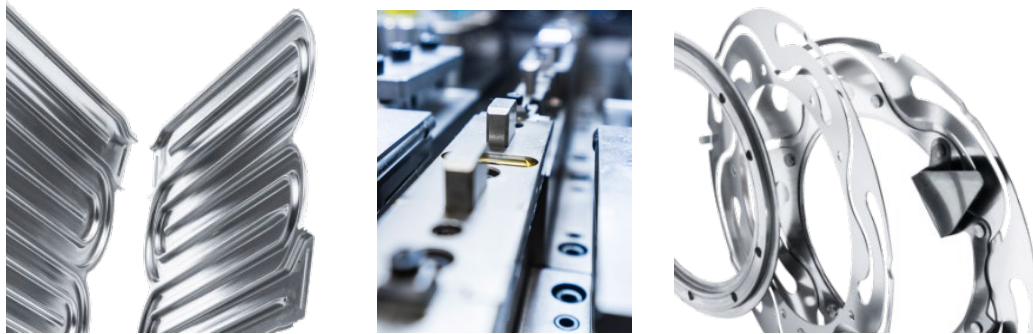
Benefits and Challenges

AI forecasting offers improved accuracy and adaptability but requires quality data and system integration.

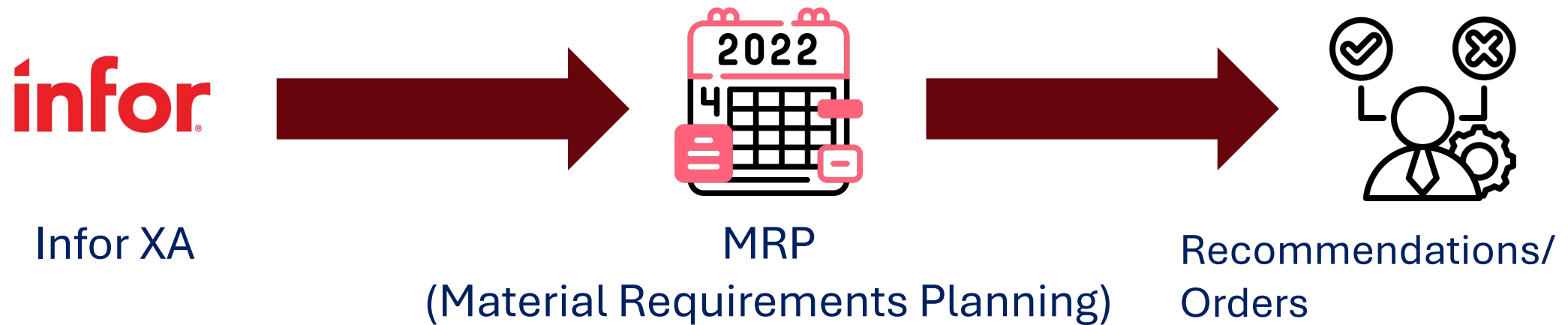


Demand Forecasting @Bernecker Group

- Automotive supplier
- 3 Company locations
- Innovative technology in production & IT
- MJR Customer since 2000



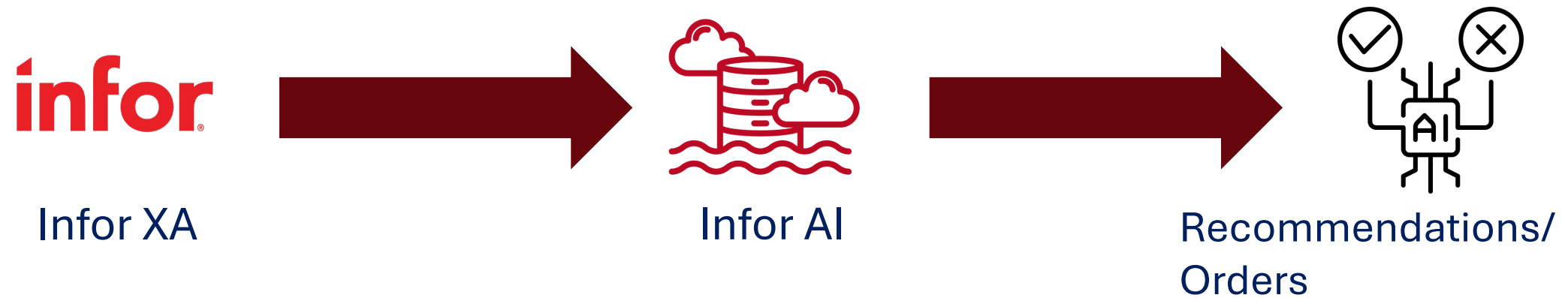
Current State



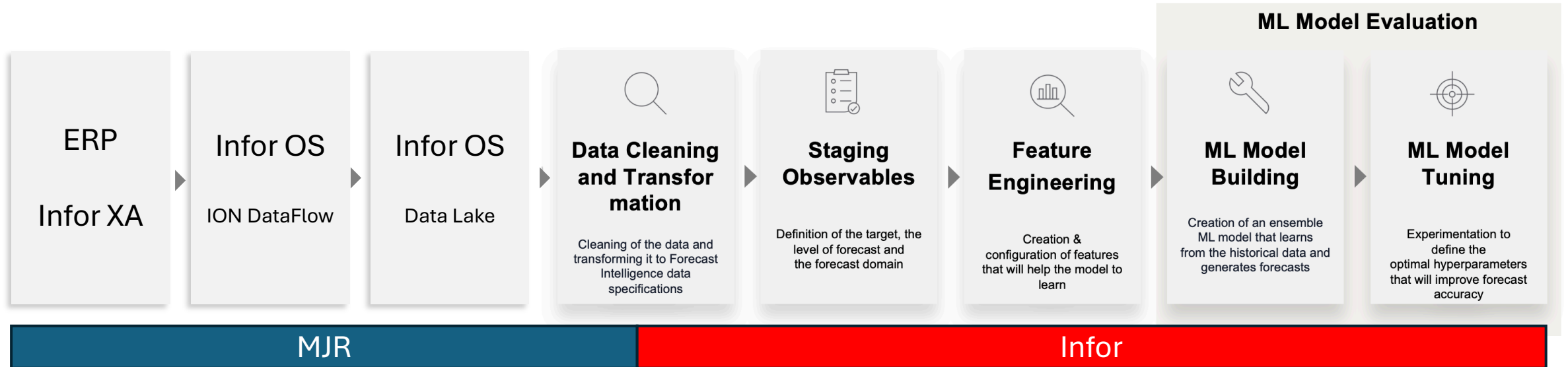
Current State - problems/limitations?

- Planning responds only to a limited extent to short-term trends.
- Seasonal fluctuations and promotions can only be considered manually.
- Inventory levels fluctuate greatly, leading to excess stock or shortages.
- Planning is time-consuming and ties up operational resources.
- Data maintenance is costly (master data)

Future State

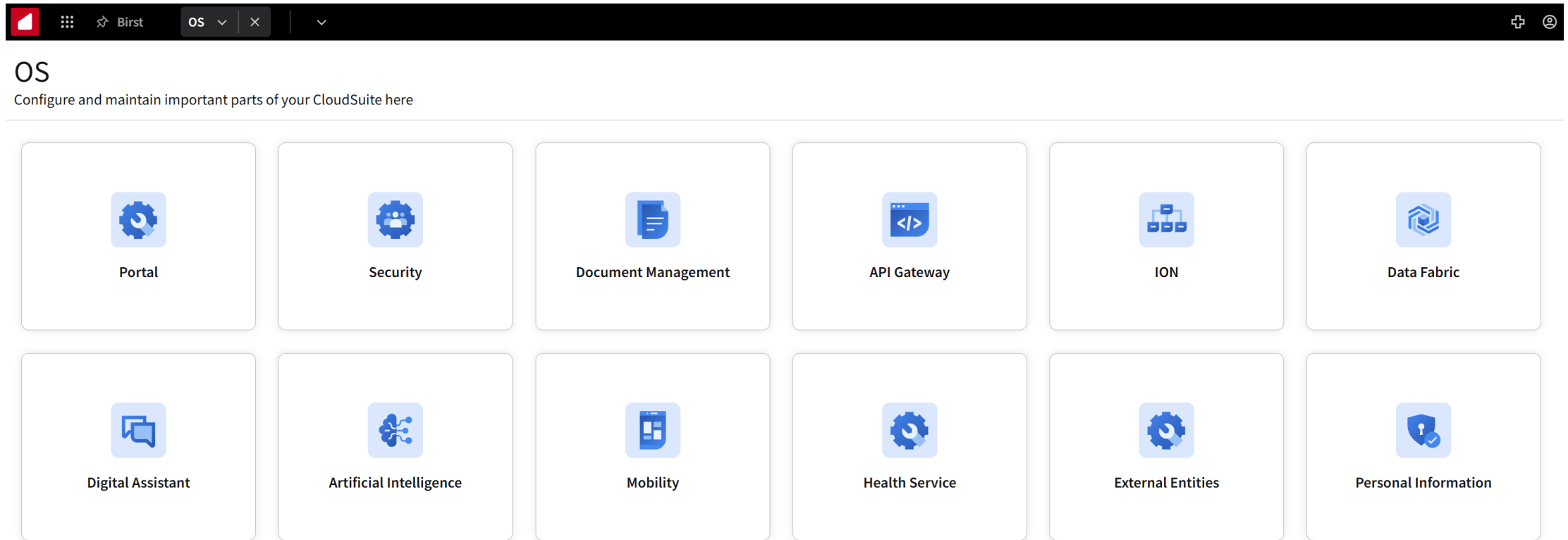


AI Flow for Demand Forecasting



Base: Infor XA & Infor OS CE

Infor OS CE – Overview



The screenshot displays the Infor OS CE dashboard. At the top is a dark navigation bar with a red square icon, a grid icon, the text 'Birst', a dropdown menu labeled 'OS', and a close button. On the right side of the bar are a plus icon and a user profile icon. Below the navigation bar, the heading 'OS' is followed by the subtitle 'Configure and maintain important parts of your CloudSuite here'. The main area contains twelve white square tiles arranged in two rows of six. Each tile features a blue icon and a label: Portal (gear with arrow), Security (gears with people), Document Management (document), API Gateway (code symbol), ION (hierarchy diagram), Data Fabric (interlocking cubes), Digital Assistant (speech bubbles), Artificial Intelligence (brain with nodes), Mobility (document with location pin), Health Service (gear with heart), External Entities (gear with network), and Personal Information (shield with checkmark).

OS


Configure and maintain important parts of your CloudSuite here









- Portal
- Security
- Document Management
- API Gateway
- ION
- Data Fabric
- Digital Assistant
- Artificial Intelligence
- Mobility
- Health Service
- External Entities
- Personal Information

Infor XA

- **Raw Data extraction from Inventory Transaction History (IMHIST)**
- **More than 1 million records (IP & SA Transactions)**
- **2 Warehouses**
- **Nearly 16.000 items**

Infor OS CE - ION

 Data Lake Flow AI_XA_22_DataLake


        REMOVE CONNECTION POINTS


Name *


AI_XA_22_DataLake


Description


XA env.: 22 (Prod)


 Retrieve

 Query

 Ingest

 Application

 Database

 Network

Start


XA BUT PROD...






Transform BODs

IngestToDataL...

End

Documents



	 Document
	Sync.BUT_TargetHistory
	Sync.BUT_Warehouse
	Sync.ItemMaster

Infor OS CE – Data Lake

The screenshot displays the Infor OS CE Data Lake interface. At the top, a navigation bar includes tabs for 'Data Fabric', 'System Administrator', 'YOe', and 'Artificial Intelligence'. Below this, a search bar is labeled 'Atlas'. The main content area is divided into three panels:

- Left Panel:** A list of data objects with search results. The first result, 'BUT_ItemMaster', is highlighted. It shows a date of 'Sep 24, 2025, 4:48:30 PM' and a count of '15204'. Other results include 'BUT_TargetHistory' (Oct 14, 2024, 12:59:09 PM, 71) and 'BUT_Warehouse' (Oct 2, 2024, 4:36:30 PM, 7).
- Middle Panel:** A detailed view of the 'BUT_ItemMaster' object, showing a table of object IDs and channels. The table has two columns: 'Object ID' and 'Channel'. The first row is highlighted.
- Right Panel:** A detailed view of a specific object, '2012-ab47cb2c-b45c-353c-a29f-ed94cdd8bd8c'. It shows a 'Content' tab with a table of data.

Object ID	Channel
2012-ab47cb2c-b45c-353c-a29f-ed94cdd8bd8c	ION
2012-7daa4572-e599-372c-8279-e34f74be0b10	ION

ItemID	Warehouse	Description	Class	ClassDescription	Type	TypeDe
0012008600	1	1.4510 0,68 X 68 MM BEISTELLUNG BESHape	BST	BeSha		

Infor OS CE – Data Lake

Data Fabric

System Administrator

YOe

Artificial Intelligence

Atlas

Search by object name

BUT_ItemMaster
Sep 24, 2025, 4:48:30 PM | 15204

BUT_TargetHistory
Oct 14, 2024, 12:59:09 PM | 71

BUT_Warehouse
Oct 2, 2024, 4:36:30 PM | 7

« BUT_TargetHistory (71 Data objects)

	Details	Object ID
<input type="checkbox"/>		=
<input type="checkbox"/>	→	2012-e501dbbe-a03a-3279-89a9-44882d3f29cc
<input type="checkbox"/>	→	2012-bfed17d8-4f34-318f-94b9-54209aeab30d

» 2012-e501dbbe-a03a-3279-89a9-44882d3f29cc

Content

Properties

1	Date,ItemId,LocationId,TargetMeasure
2	20241013,C45G003,K,400.000
3	20241013,A941R01,K,162.000
4	20241012,23.11252,K,768.000
5	20241012,AE2VB01,K,1056.000
6	20241012,23.112.21.642,K,173.000

Infor OS CE – Data Lake

Data Fabric

System Administrator

YOe

Artificial Intelligence

Atlas

Search by object name

BUT_ItemMaster
Sep 24, 2025, 4:48:30 PM | 15204

BUT_TargetHistory
Oct 14, 2024, 12:59:09 PM | 71

BUT_Warehouse
Oct 2, 2024, 4:36:30 PM | 7

BUT_Warehouse (7 Data objects)

	Details	Object ID
<input type="checkbox"/>		<div>=</div>
<input type="checkbox"/>	→	2012-90c306ca-83d8-3507-9b3e-2ec7489957a4
<input type="checkbox"/>	→	2012-1b10c647-bfe5-3587-8544-b3ef174f8463

2012-90c306ca-83d8-3507-9b3e-2ec7489957a4

Content

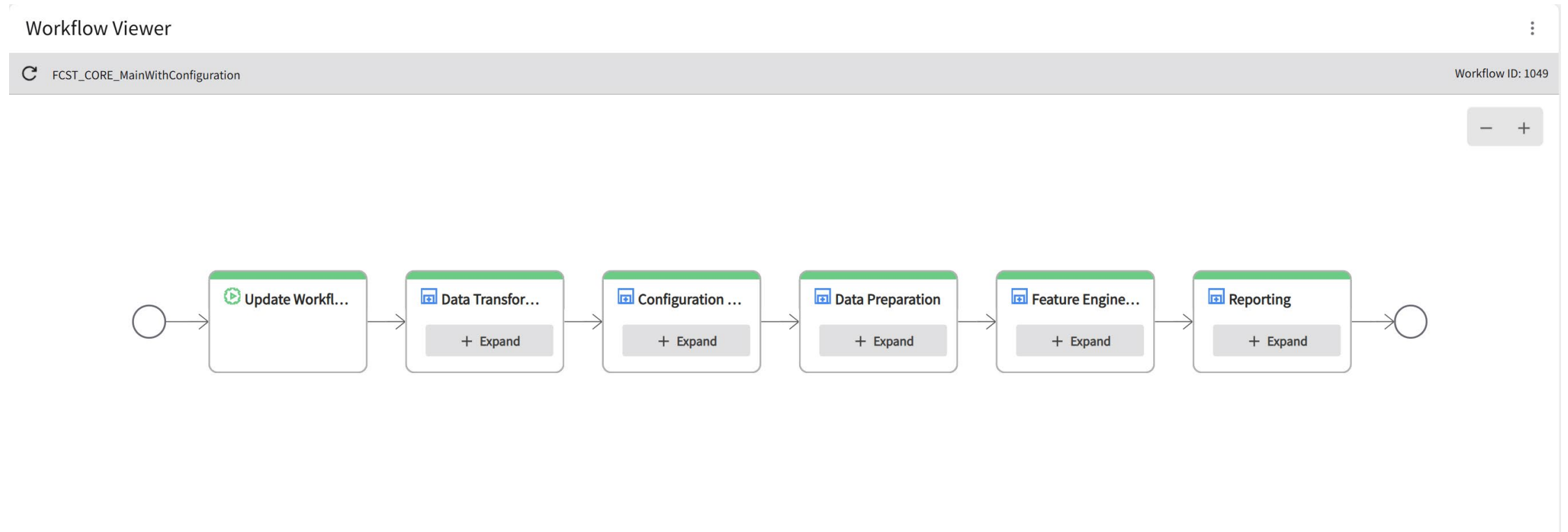
Properties

1 LocationId,LocationIdDescription,LocationType,LocationTypeDescr:

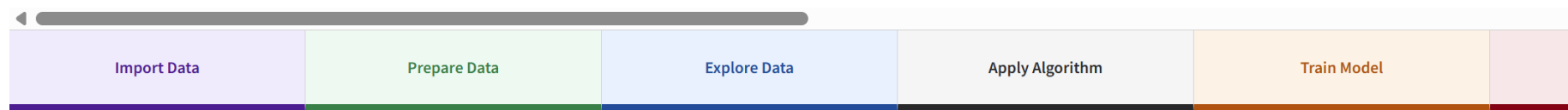
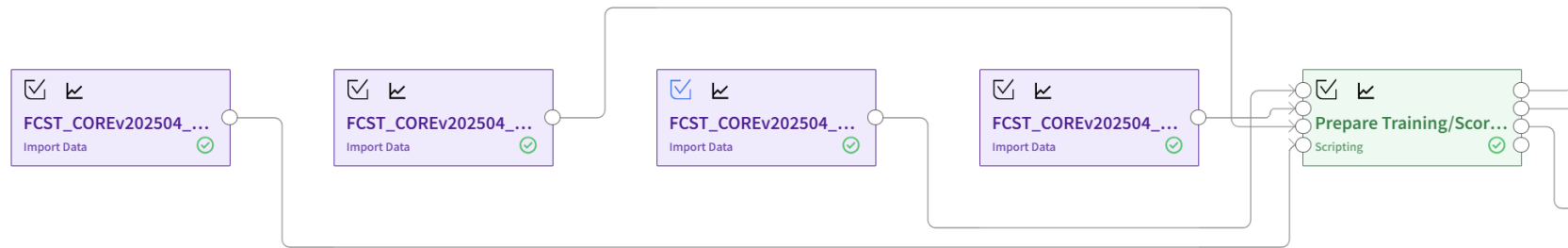
2 1,PLANUNGSLAGER 1,1,Controlled,None,Boschstraße 25,Wiernsheim,N

3

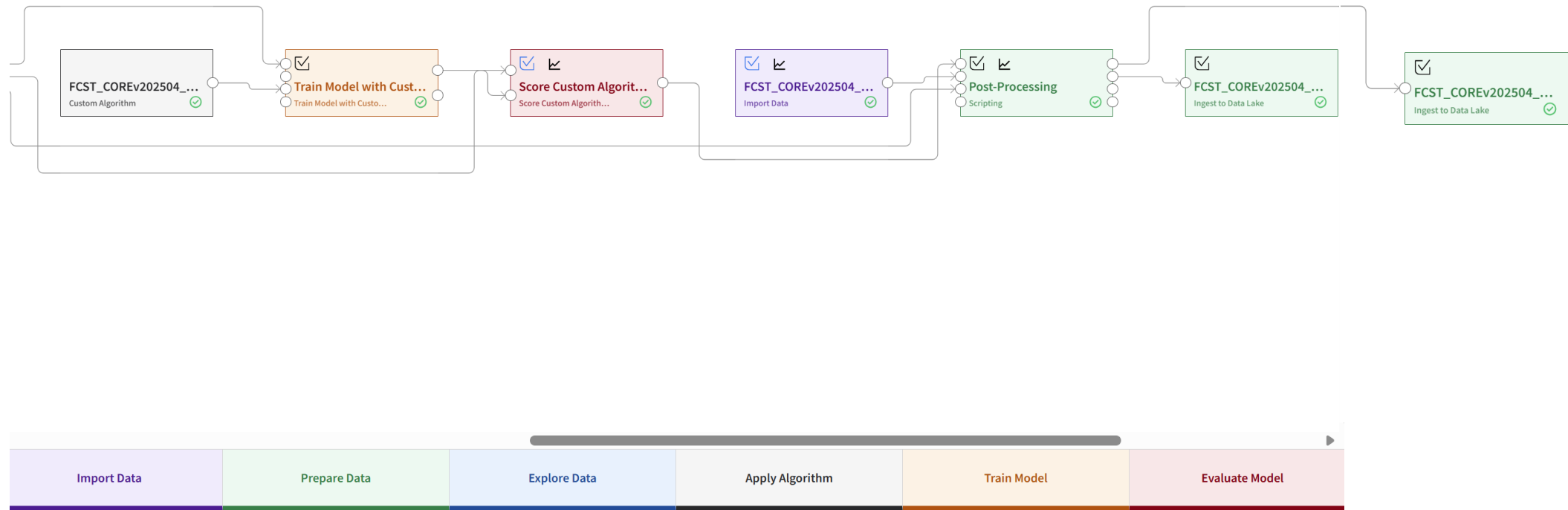
Infor OS CE – AI



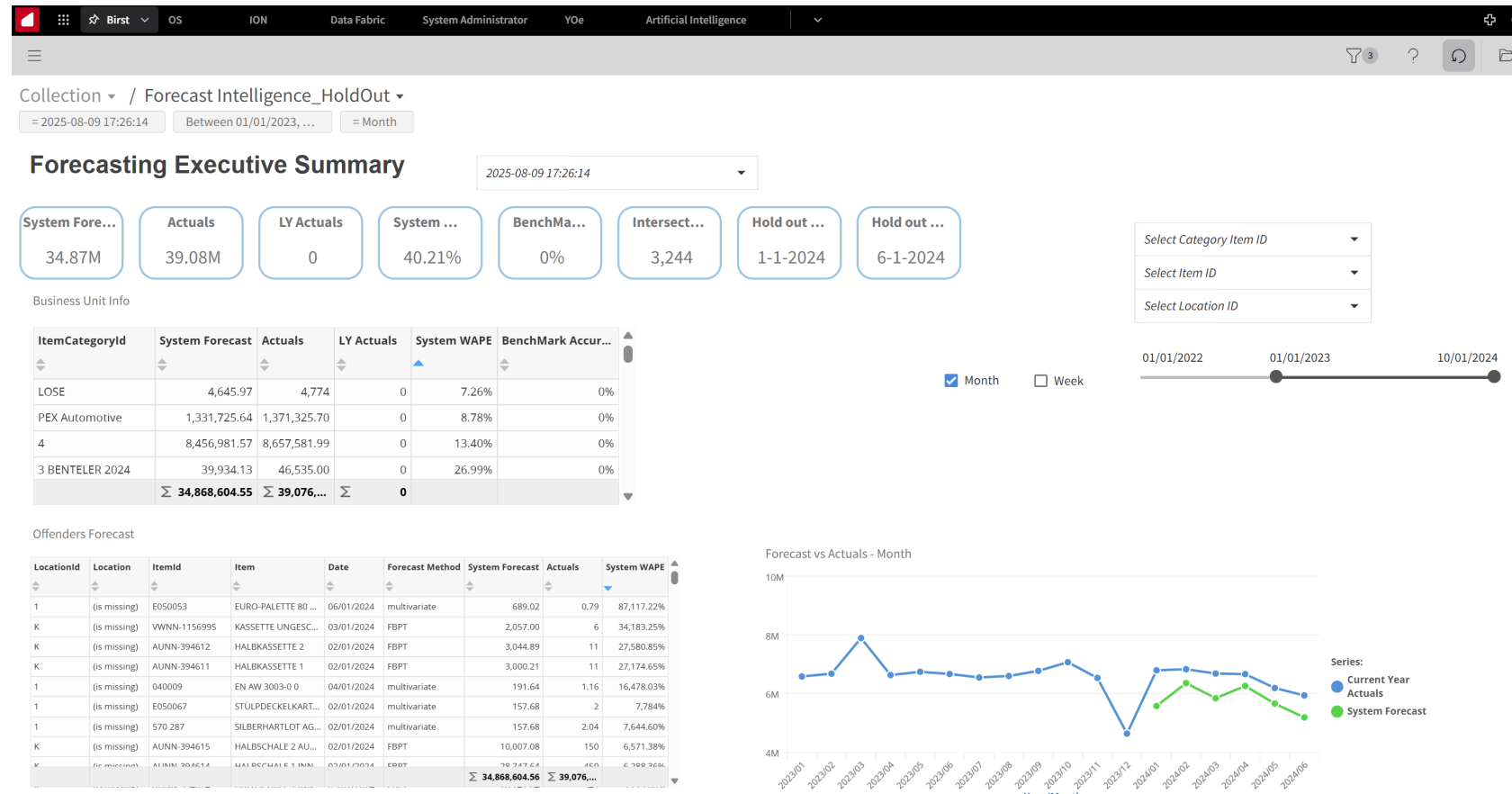
Infor OS CE – AI



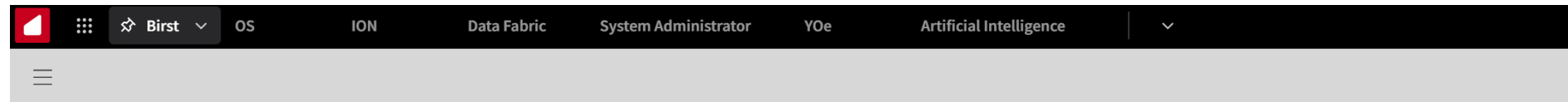
Infor OS CE – AI



Infor OS CE – Birst



Infor OS CE – Birst



Collection ▾ / Forecast Intelligence_HoldOut ▾

= 2025-08-09 17:26:14

Between 01/01/2023, ...

= Month

Forecasting Executive Summary

2025-08-09 17:26:14 ▾

System Fore...	Actuals	LY Actuals	System ...	BenchMa...	Intersect...	Hold out ...	Hold out ...
34.87M	39.08M	0	40.21%	0%	3,244	1-1-2024	6-1-2024

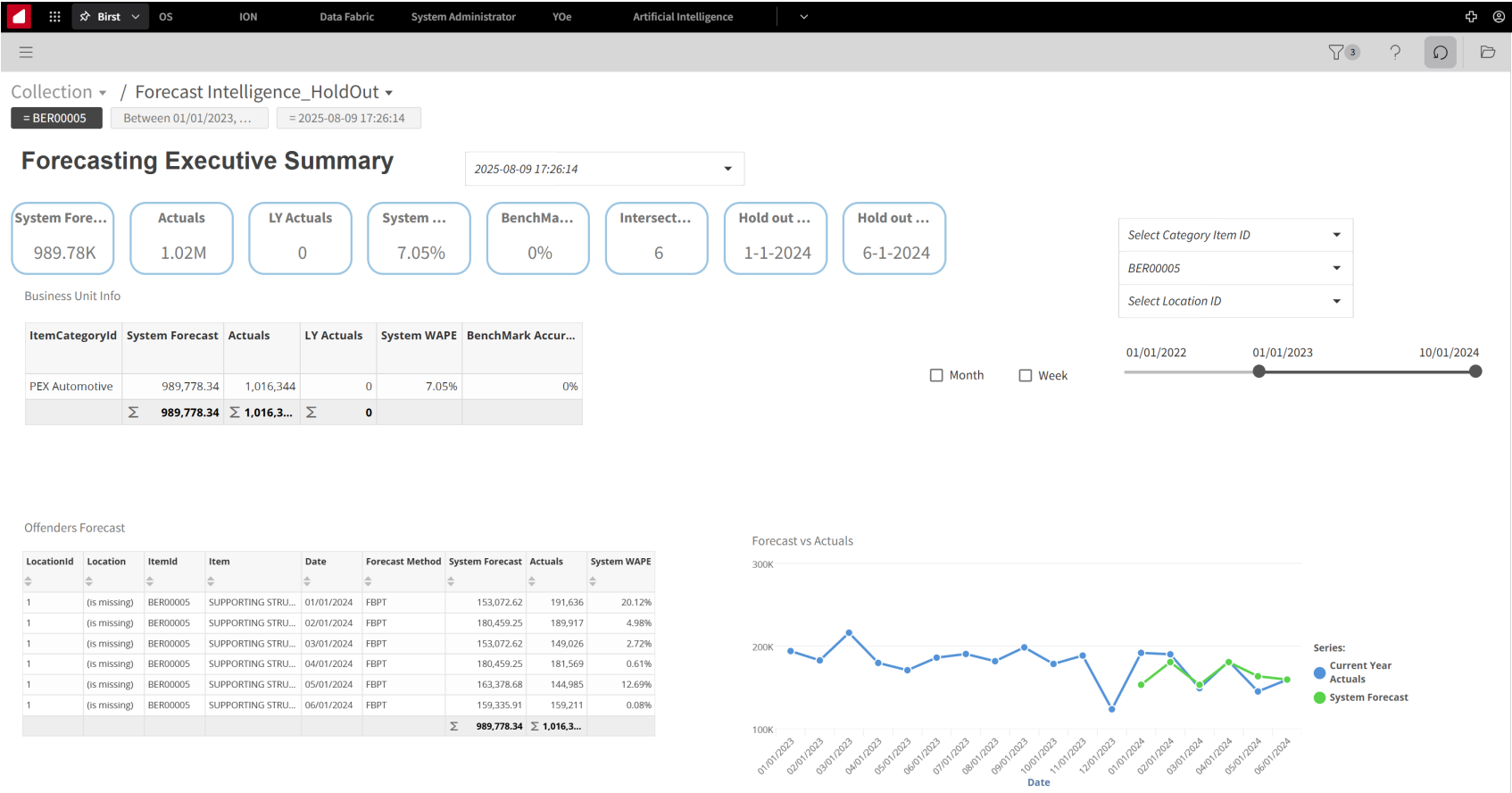
Business Unit Info

ItemCategoryId	System Forecast	Actuals	LY Actuals	System WAPE	BenchMark Accur...
LOSE	4,645.97	4,774	0	7.26%	0%
PEX Automotive	1,331,725.64	1,371,325.70	0	8.78%	0%
4	8,456,981.57	8,657,581.99	0	13.40%	0%
3 BENTELER 2024	39,934.13	46,535.00	0	26.99%	0%
	Σ 34,868,604.55	Σ 39,076,...	Σ 0		

☒ Month

☐ Week

Infor OS CE – Birst



Review

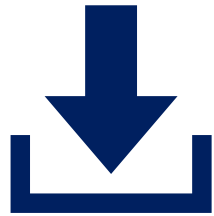
Interim results:

- AI outcomes provide forecasts based on demand.
- Forecast quality is enhanced (fine-tuning).

Next steps:

- Integrate forecast data into the ERP system.
- Consider additional features.

Thank you for attending!



PDF-slides available for download here:

➔ <https://inpower.mjr.gmbh>

