inPOWER 2025

AI behind the scenes

@ Bernecker Group (XA customer)

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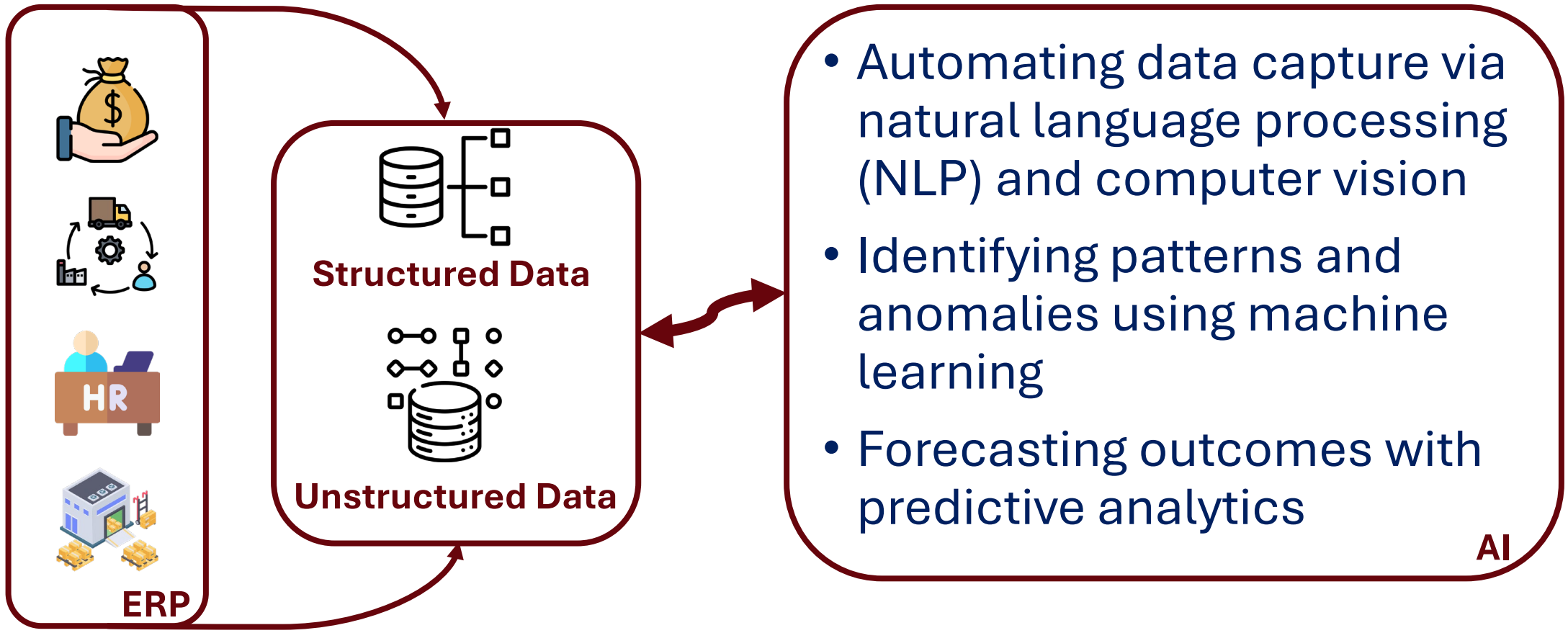
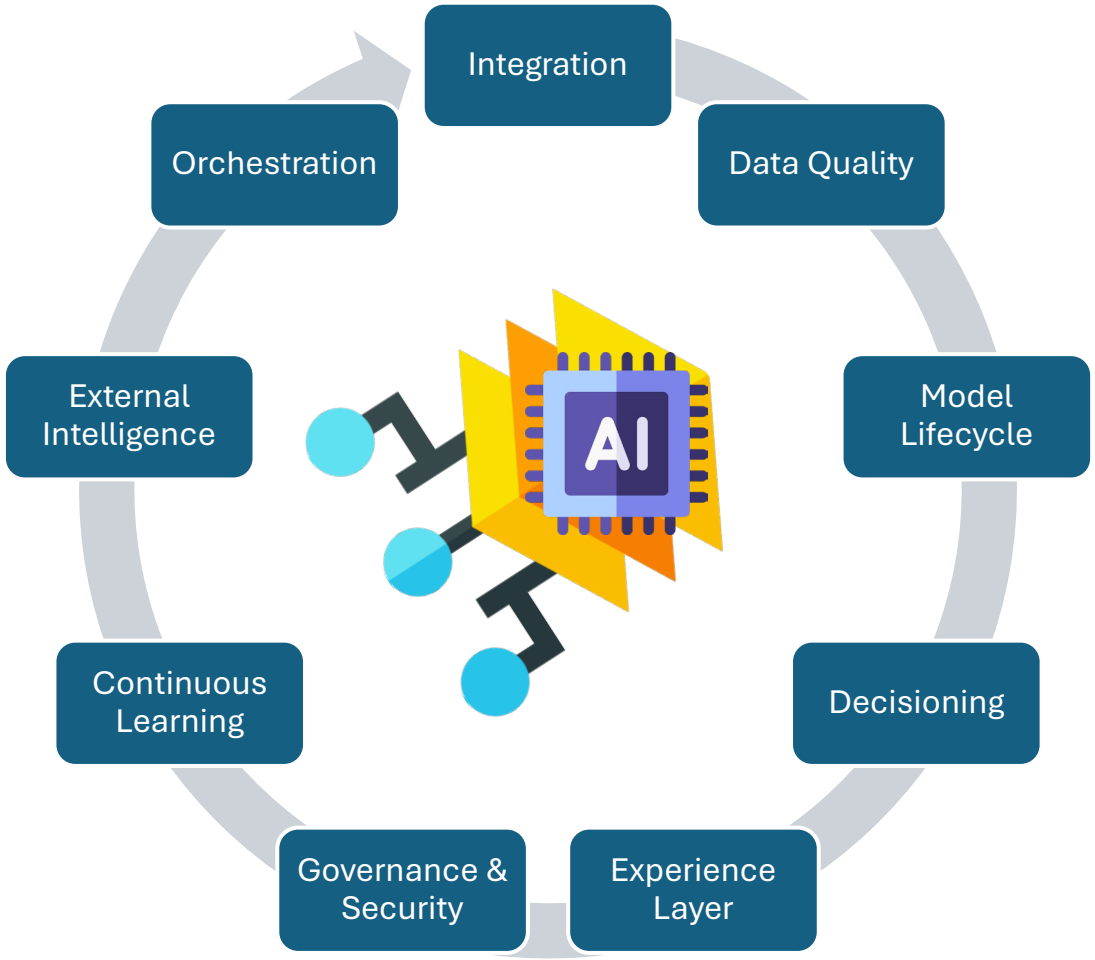
ERP & AI


HR
ERP
Structured Data
Unstructured Data
• Automating data capture via natural language processing (NLP) and computer vision
• Identifying patterns and anomalies using machine learning
• Forecasting outcomes with predictive analytics
AI

AI Layers – ERP Intelligence



Challenges behind the Scenes

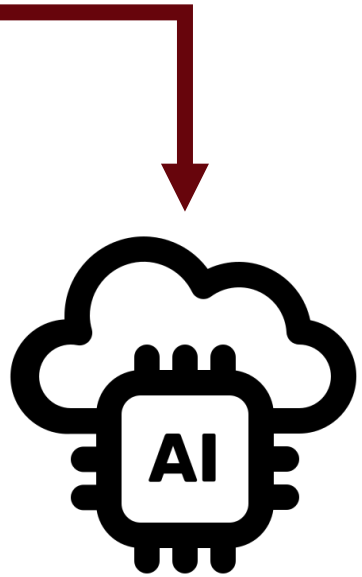
DATA QUALITY & AVAILABILITY

SYSTEM INTEGRATION COMPLEXITY

EXPLAINABILITY & COMPLIANCE

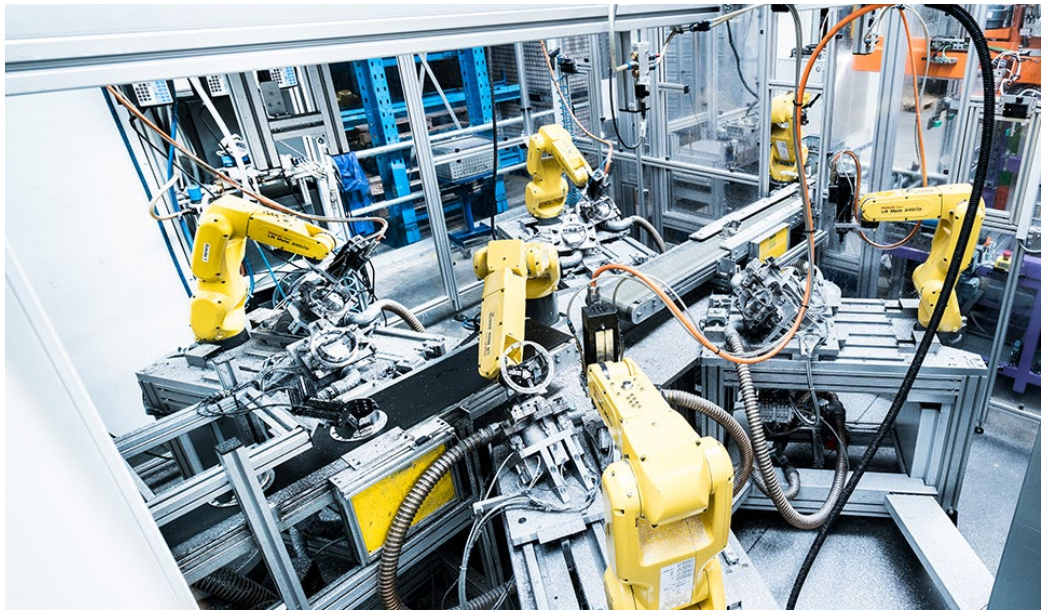
USER ADOPTION & CHANGE MANAGEMENT

SCALABILITY & INFRASTRUCTURE



AI-Powered ERP

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

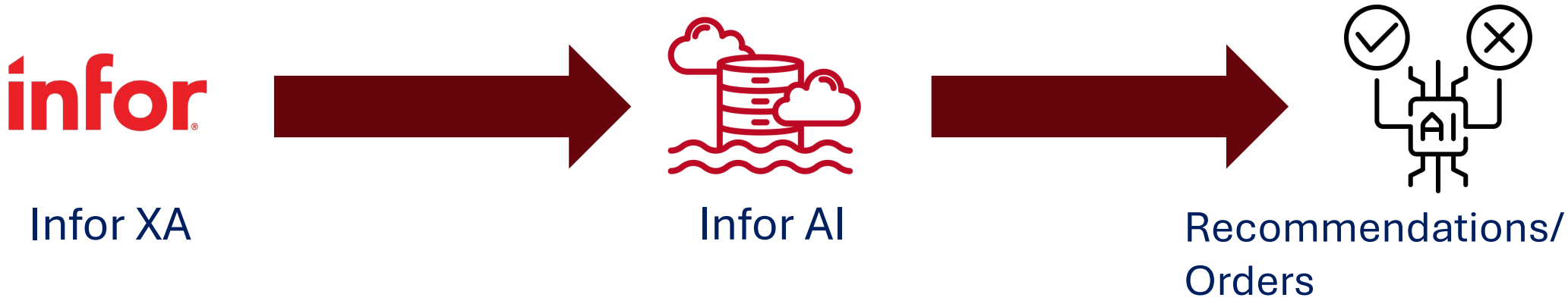
- Automotive supplier
- 3 Company locations
- Innovative technology in production & IT
- MJR Customer since 2000

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



Infor XA

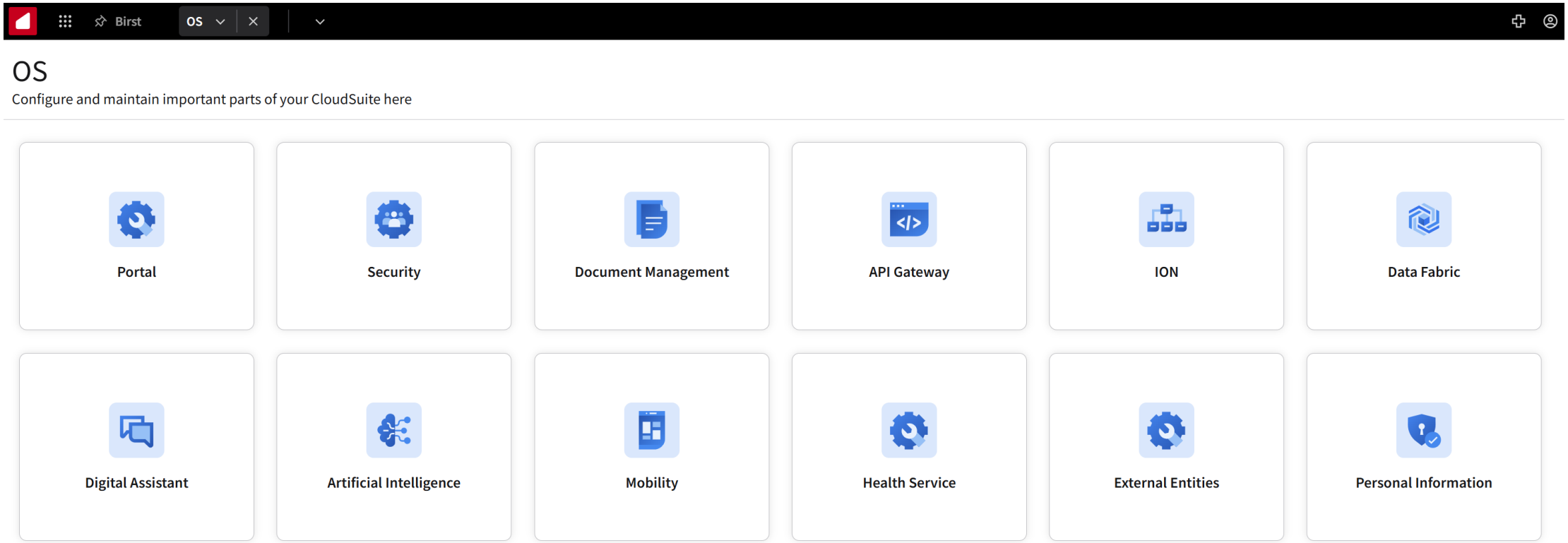
Infor AI

Recommendations/
Orders

AI Flow for Demand Forecasting

Base: Infor XA & Infor OS CE

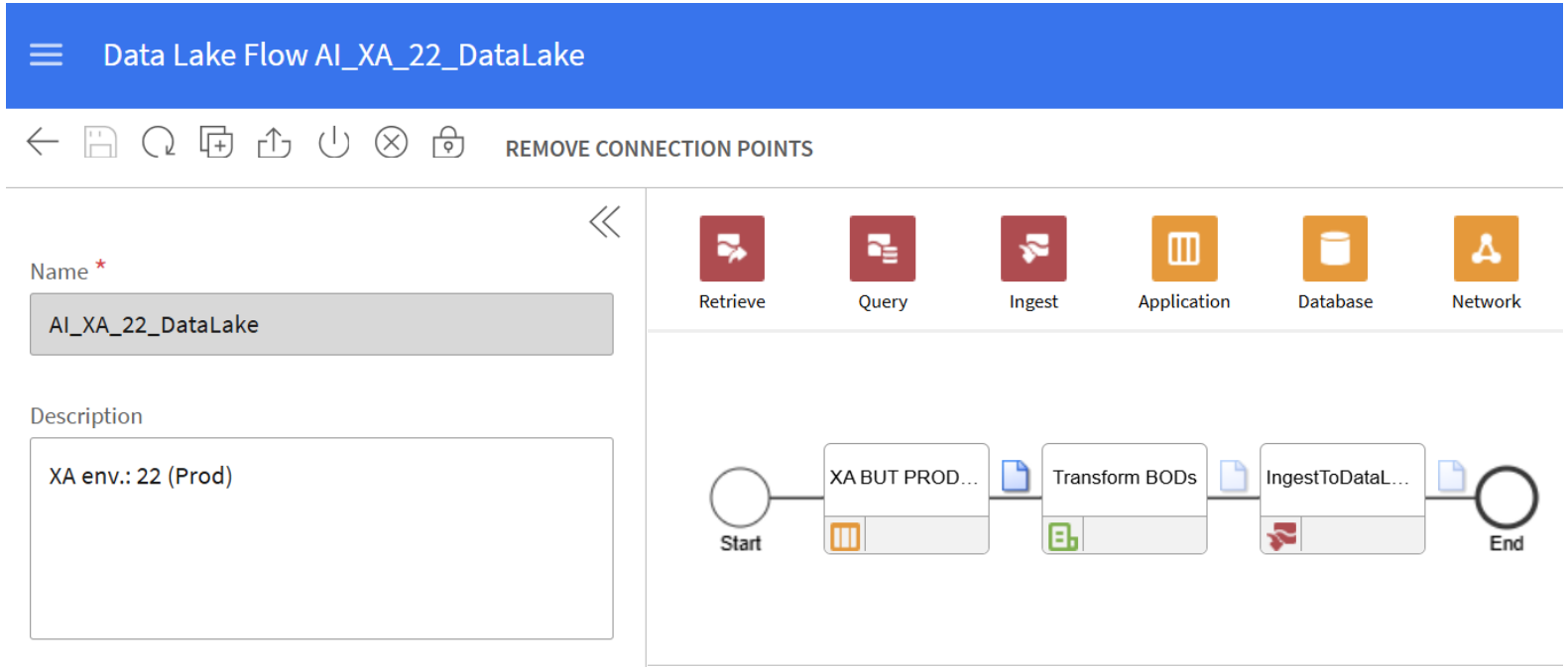
Infor OS CE – Overview

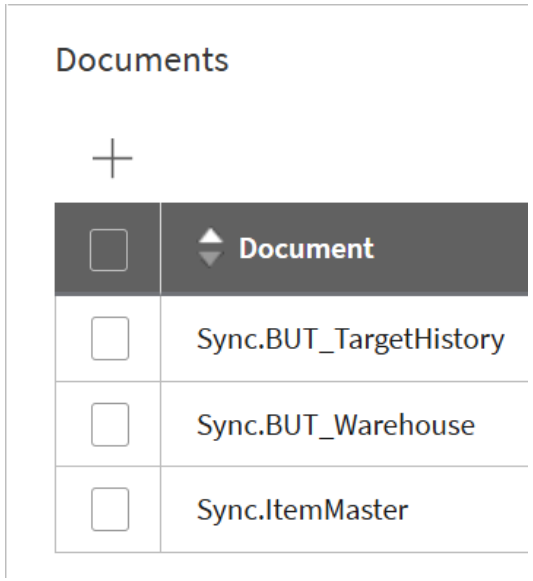


Infor XA

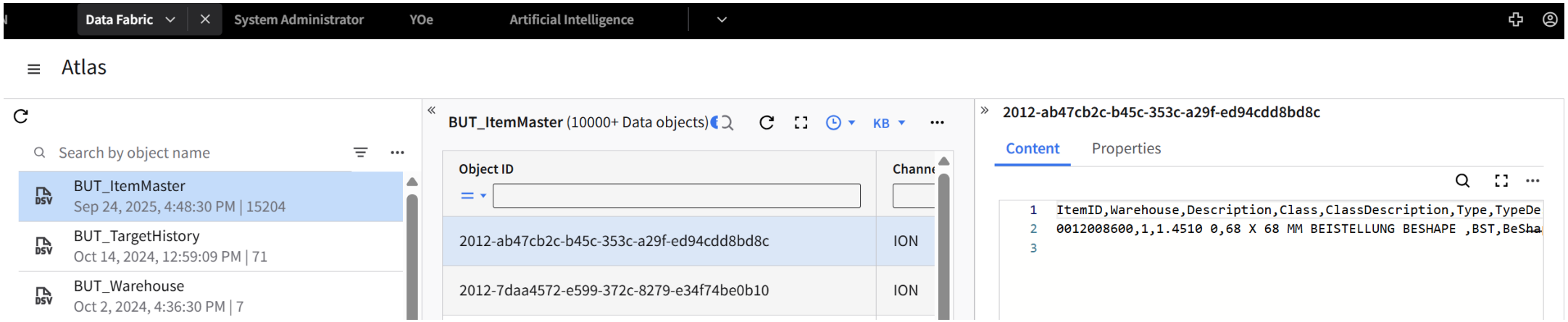
- **Raw Data extraction from Inventory Transaction History (IMHIST)**
- **More than 1 million records (IP & SA Transactions)**
- **2 Warehouses**
- **Nearly 16.000 items**

Infor OS CE - ION





Infor OS CE – Data Lake



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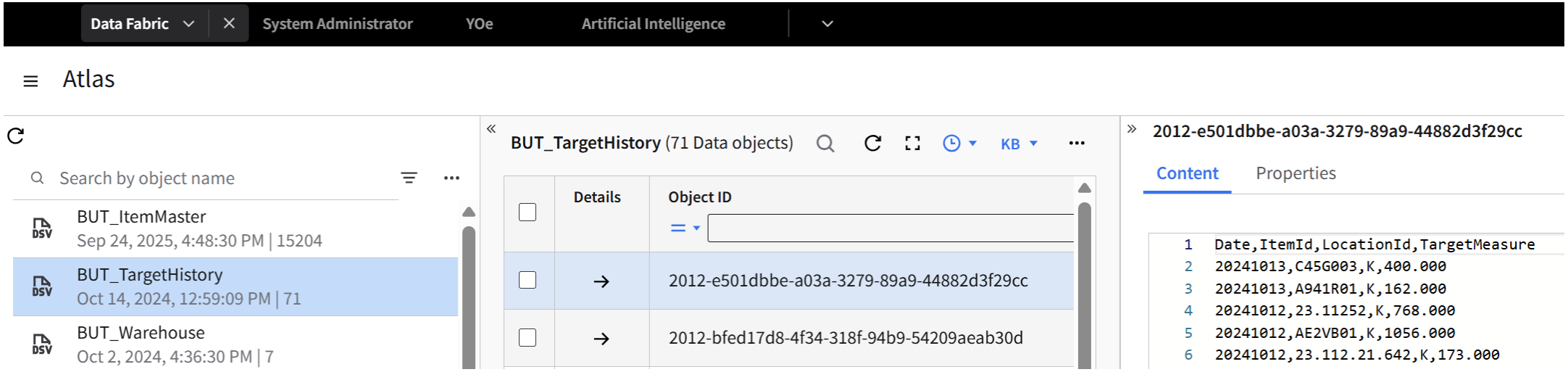

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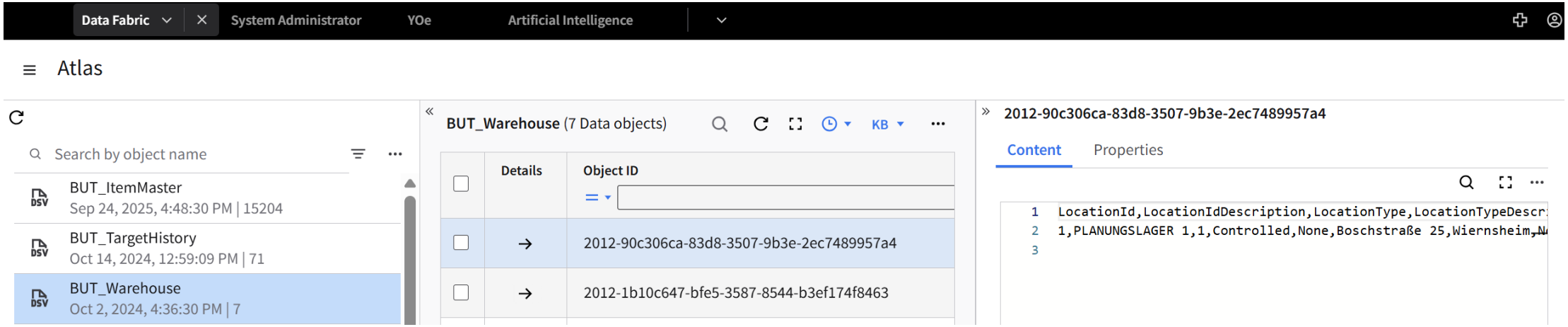

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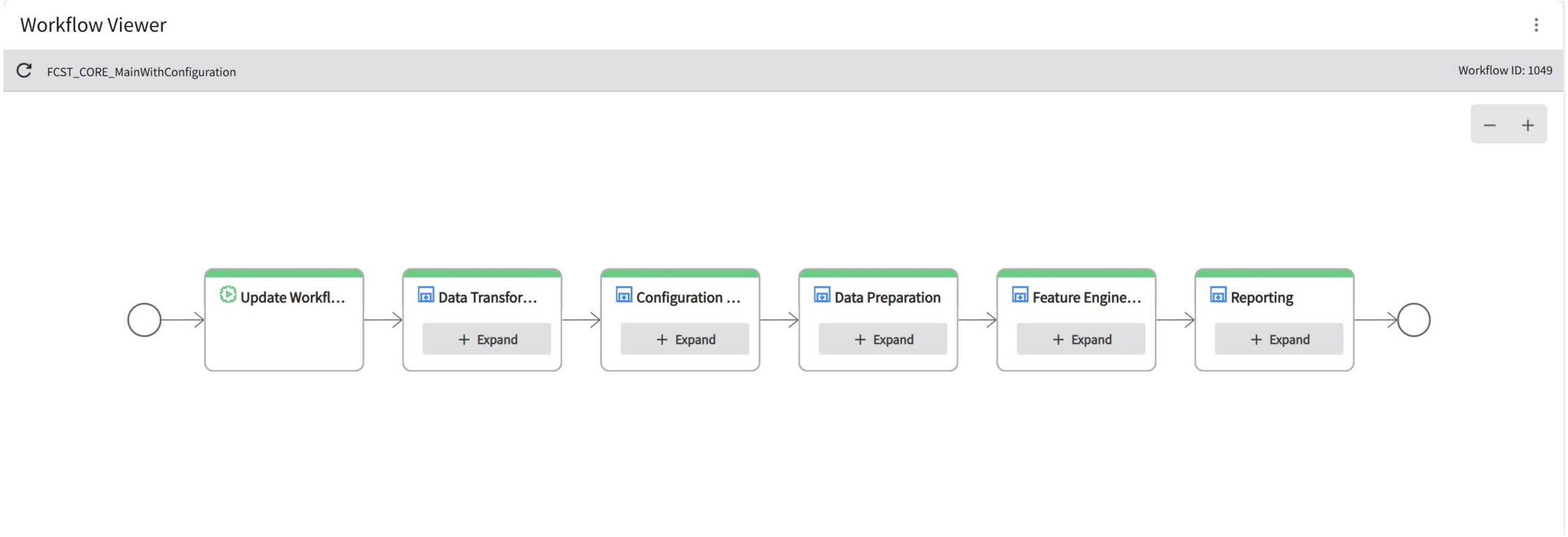

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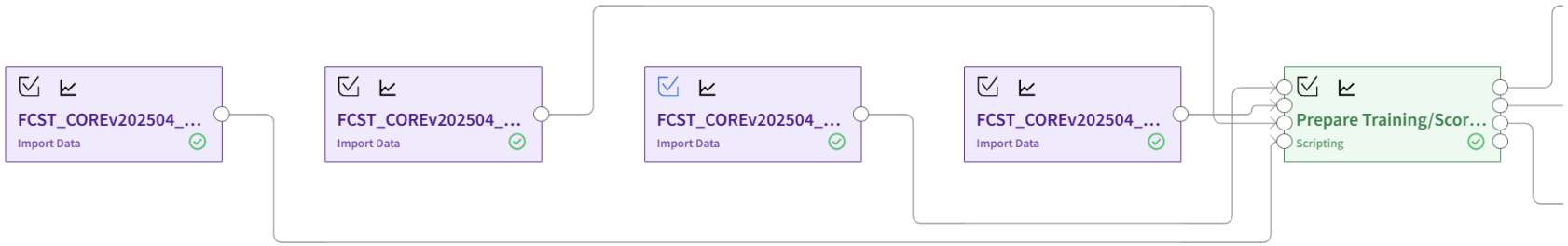

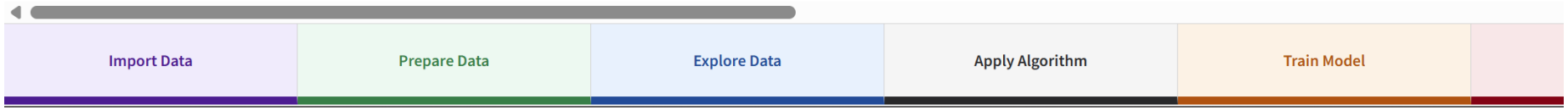

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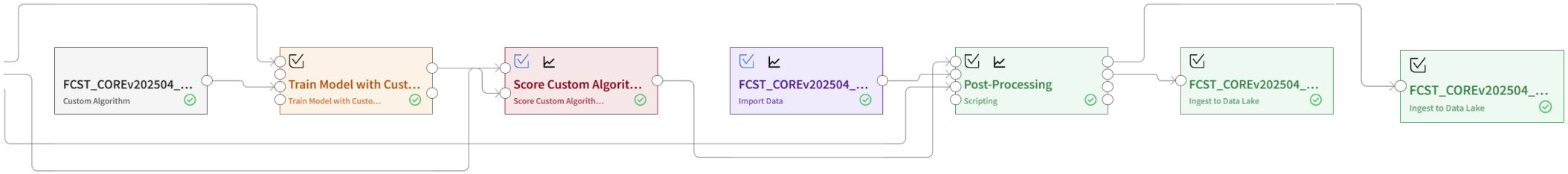
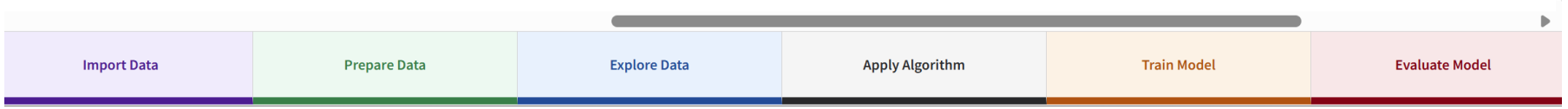
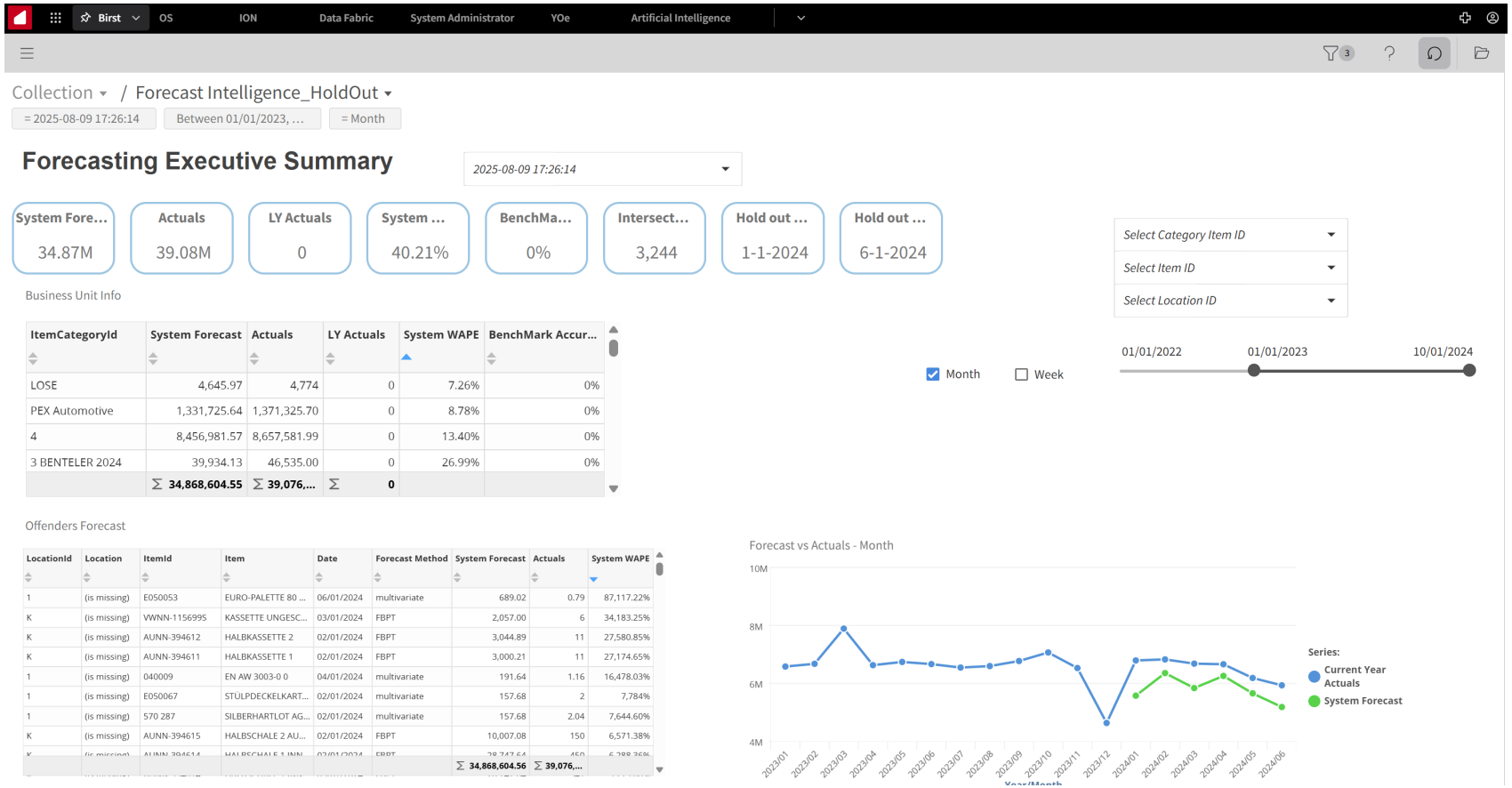




Infor OS CE – Birst



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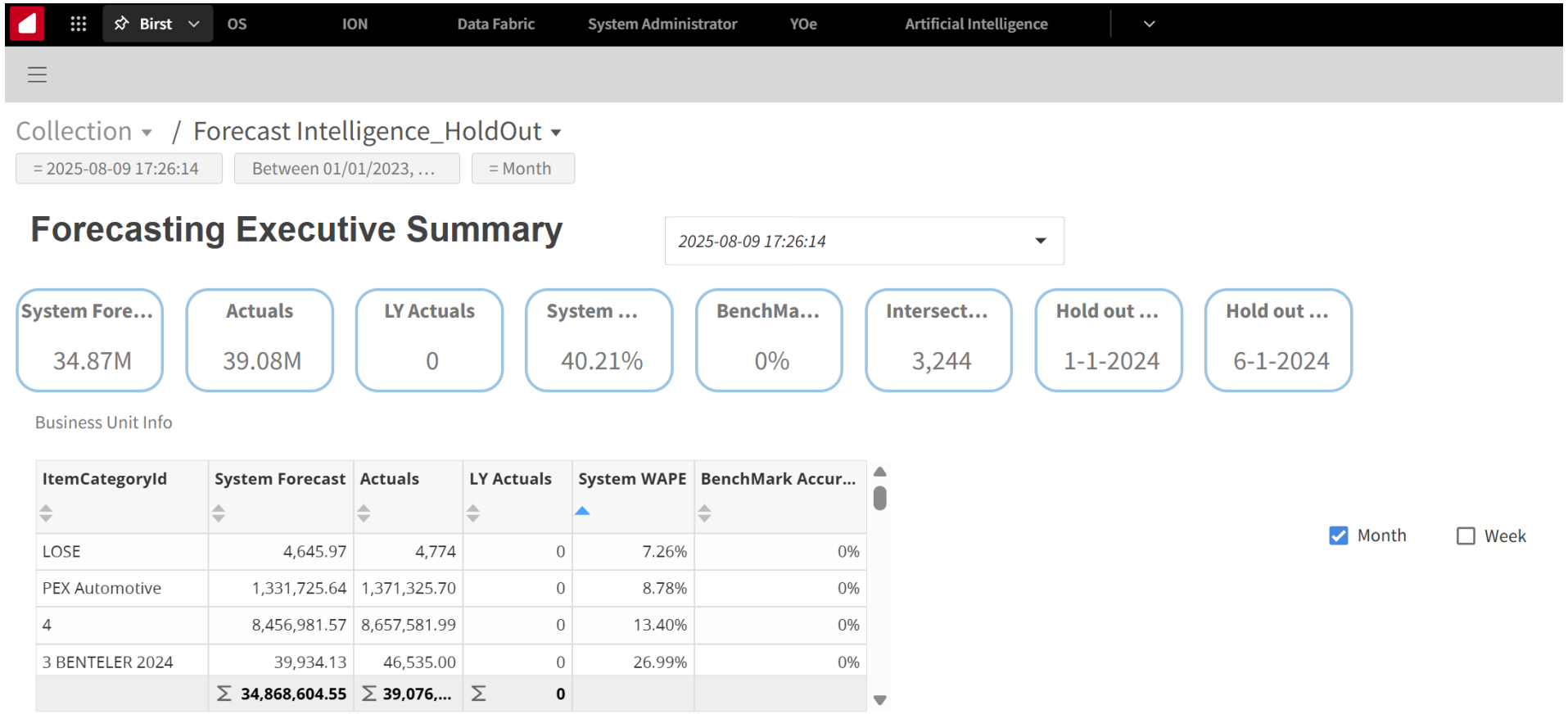
Infor OS CE – Birst



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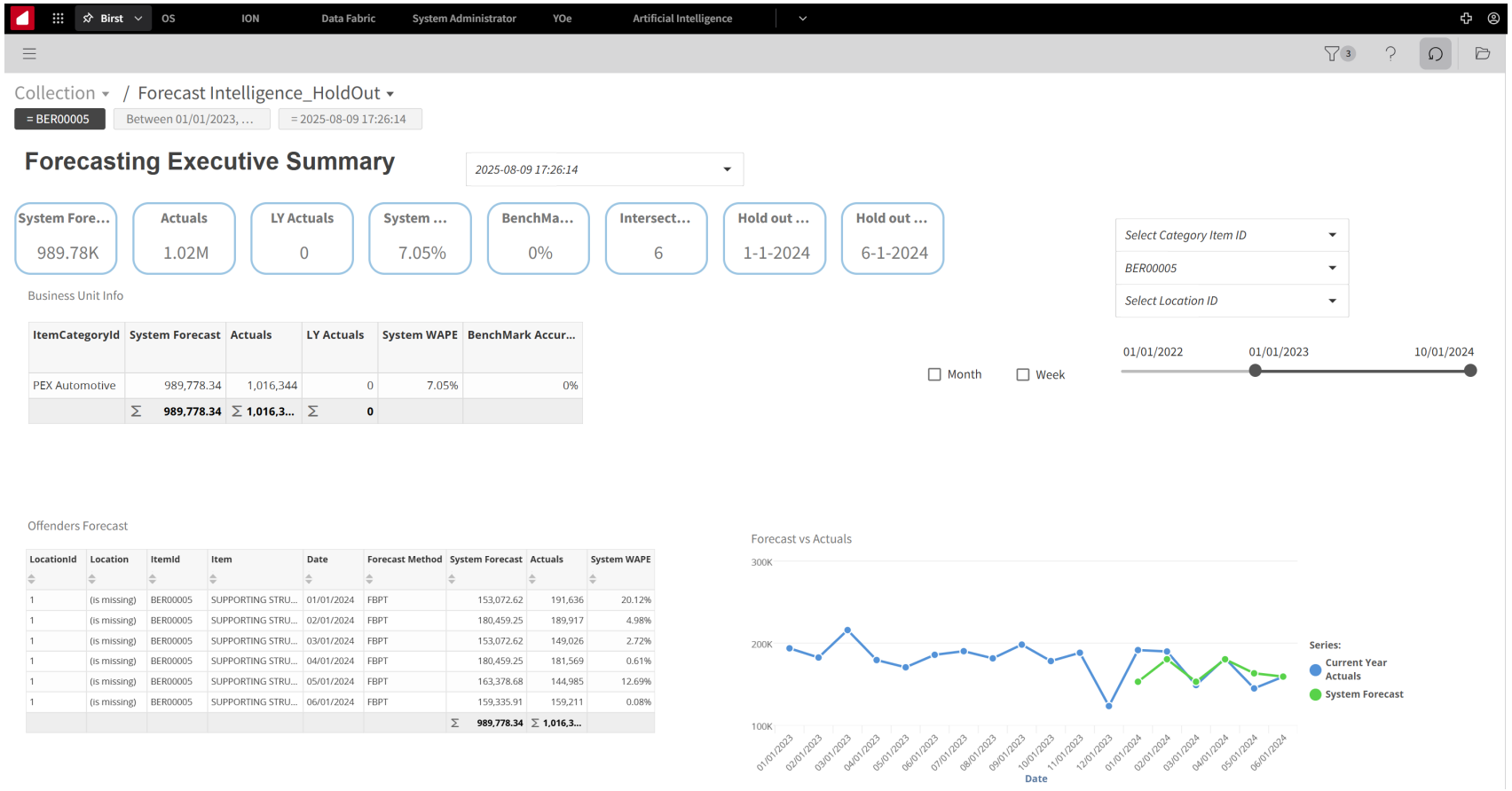

Review

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

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