



Case Study

Unified Data Analytics for a Global Packaging Leader – Transitioning to Microsoft Fabric

Client Overview

A leading packaging giant sought an enterprise-grade, scalable data warehouse solution to unify its data landscape. The organization required a way to consolidate diverse data sources—ranging from on-premise ERP systems to cloud-hosted applications—to enable efficient ingestion, transformation, and advanced analytics capabilities.

The Challenge?



Lack of Centralization

No unified platform existed to consolidate data from multiple vendor systems, leading to fragmented insights.



Complex Data Ingestion

Managing diverse data sources across on-premise and cloud environments created significant hurdles for efficient data processing.



Reporting Bottlenecks

The need to support 100+ KPIs across 50+ reports was proving difficult due to varying levels of transformation complexity.

Solution Delivered



Unified Fabric Environment

Deployed a Microsoft Fabric-based environment featuring dedicated Development and Production Workspaces, Lakehouses, and Data Warehouses.



Architectural Excellence

Established a Kimball architecture supported by detailed architecture diagrams and logical/physical data models.



Modernized ELT Pipelines

Implemented automated pipelines ensuring daily data ingestion with industry best practices, robust error handling, and efficient incremental extracts.



DevOps Integration

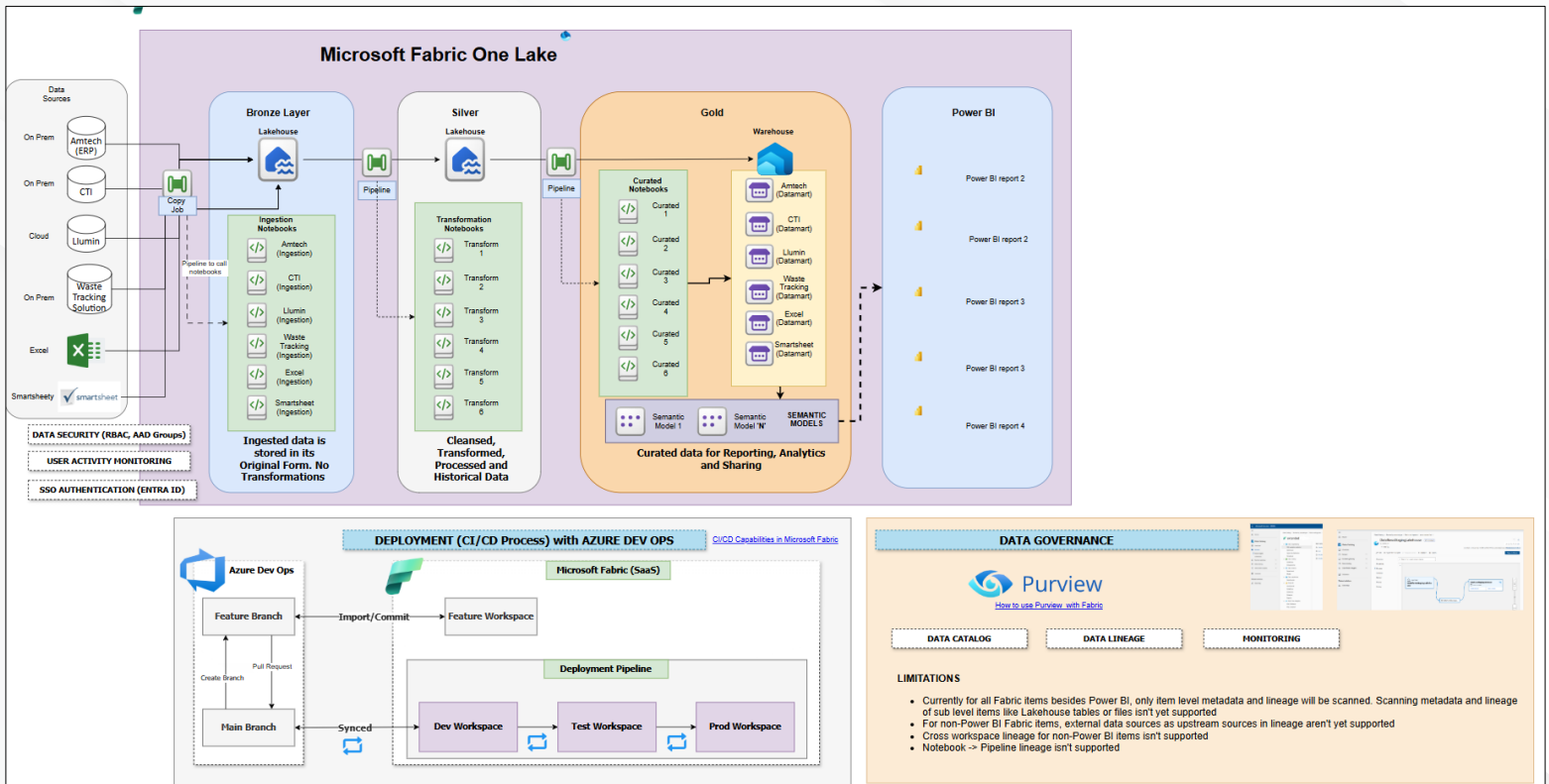
Provided a CI/CD framework via Azure DevOps to ensure streamlined deployments and operational reliability.



Operational Governance

Delivered comprehensive documentation and a structured operational hand-over plan to ensure long-term sustainability.

The Architecture



The Impact

42% Cost Savings

Achieved significant reduction in monthly reservation costs through centralized data platform delivery in Fabric.

Analytics "Front Door"

Created a unified reporting capability with Single Sign-on (SSO) and Role-Based Access Control (RBAC).

Robust KPI Support

Delivered an enterprise-grade foundation layer supported by dimensional and semantic models to handle complex construction for 100+ KPIs.

Outcome

From Data Fragmentation to Strategic Insights By migrating to a unified platform, the packaging leader has successfully moved from managing disparate vendor systems to a structured, semantic-model-driven foundation. This transformation has not only reduced operational overhead but has also empowered the organization to scale its analytics with absolute confidence in its data lineage and KPI accuracy.



Interested in a customized solution designed to meet your unique requirements and achieve comparable results?

At Exponentia.ai, we partner with businesses to address complex data challenges and build trust in enterprise data. Our approach helps organizations streamline data management, improve visibility, and empower teams with reliable insights for better decision-making.

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