

# Modernizing Data Platform for a Leading Global Insurer

## Business Problem



- Enterprise data was fragmented across systems and platforms like SAP, ServiceNow, Oracle, PostgreSQL, and HR systems, limiting unified visibility.
- Increased compliance and operational risk due to weak PII governance, lineage, and audit readiness. Lack of self-service analytics to business teams, resulting in long turnaround times for reporting and insights.
- Legacy platform limitations constrained scalability, analytics performance, and future AI/ML readiness.

## Solution



- Modernized the enterprise data platform by migrating from Azure Synapse to a Databricks Lakehouse using Medallion architecture (Bronze—Silver—Gold).
- Centralized governance using Unity Catalog with RBAC/ABAC, PII masking, lineage, and access controls.
- Built curated Gold-layer data marts to enable faster analytics, reporting, and AI consumption.
- Implemented automated ingestion, orchestration, monitoring, and governed pipelines across enterprise source systems.
- Added FinOps and cost optimization controls to improve platform efficiency and operational visibility.

## Value Delivered



- ✓ Achieved **65% faster time-to-insight** through curated Gold-layer data marts
- ✓ Delivered **100% PII coverage** with automated governance, masking, and lineage.
- ✓ Improved performance with **3x faster query execution and 60% faster batch processing.**
- ✓ Reduced business dependency on IT by enabling more trusted, self-service analytics consumption.
- ✓ Established a **scalable, AI-ready data foundation** to support future ML and advanced analytics use cases.



**65%**

Faster Time to insight



**100%**

PII coverage with automated governance and lineage



**3X**

Faster query performance with 60% faster batch processing