CASE STUDY

From Legacy Systems to Cloud-Driven Architecture:

TRANSFORMING DATA MANAGEMENT FOR A FORTUNE 500 BEVERAGE GIANT

CLIENT CONTEXT

The client, a multinational food and beverage corporation based in the United States, is known for its diverse range of products and operations in over 200 countries. Because of their complex and diverse product portfolios, they have large data projects.

The company's existing applications were based on legacy systems and on-prem databases that required maintenance, which increased the cost overhead. To address these challenges, the company aimed to migrate its on-prem databases to a cloud-driven architecture to reduce maintenance costs. The company also wanted to adapt to more efficient methods based on performance, which required a comprehensive data migration strategy.

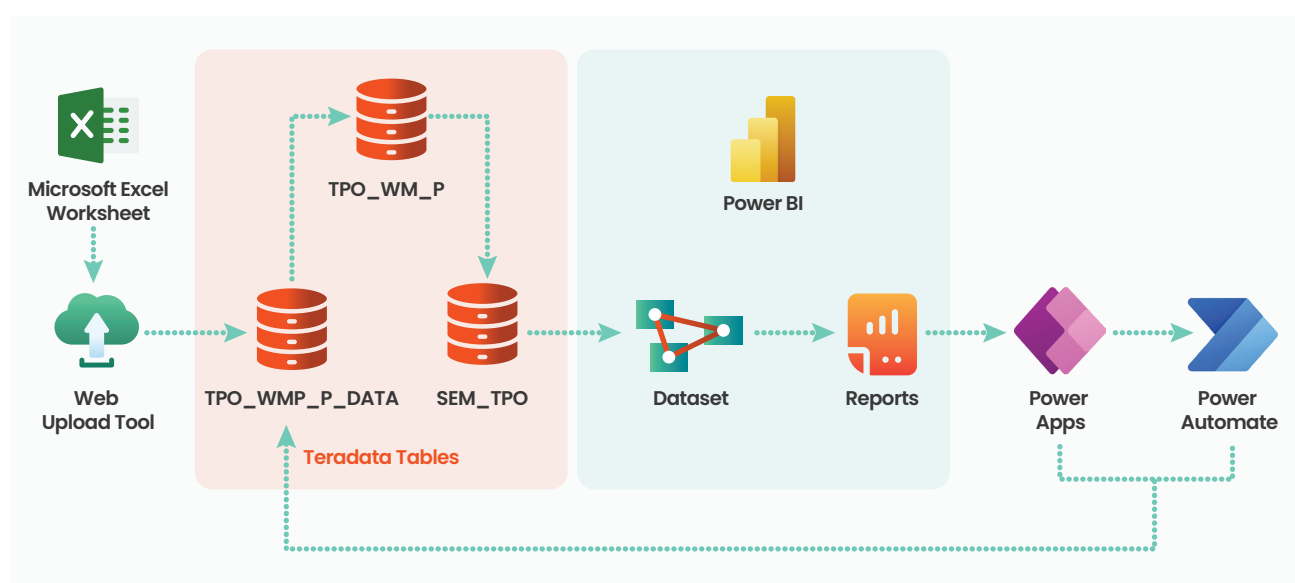## THE SOLUTION: A COMPREHENSIVE THREE-PHASE SOLUTION FOR MIGRATING LEGACY SYSTEMS TO AZURE

Fig 1: Old architecture

To address the client's challenges, our data migration and engineering team proposed a data migration solution to identify the sources and replicate the same logic and transformations in the Azure landscape. The solution comprised three phases:

Data Ingestion

Our team ingested the data sources into the bronze layer of the data lake, which served as a source of truth for the business.

Processing

We re-coded the UNIX scripts' logic in Synapse, a cloud-based data warehousing service enabling large-scale data processing.

BI/Dashboarding

The next step was to build Power BI dashboards out of the Synapse layer, which could serve as a semantic layer for the business.
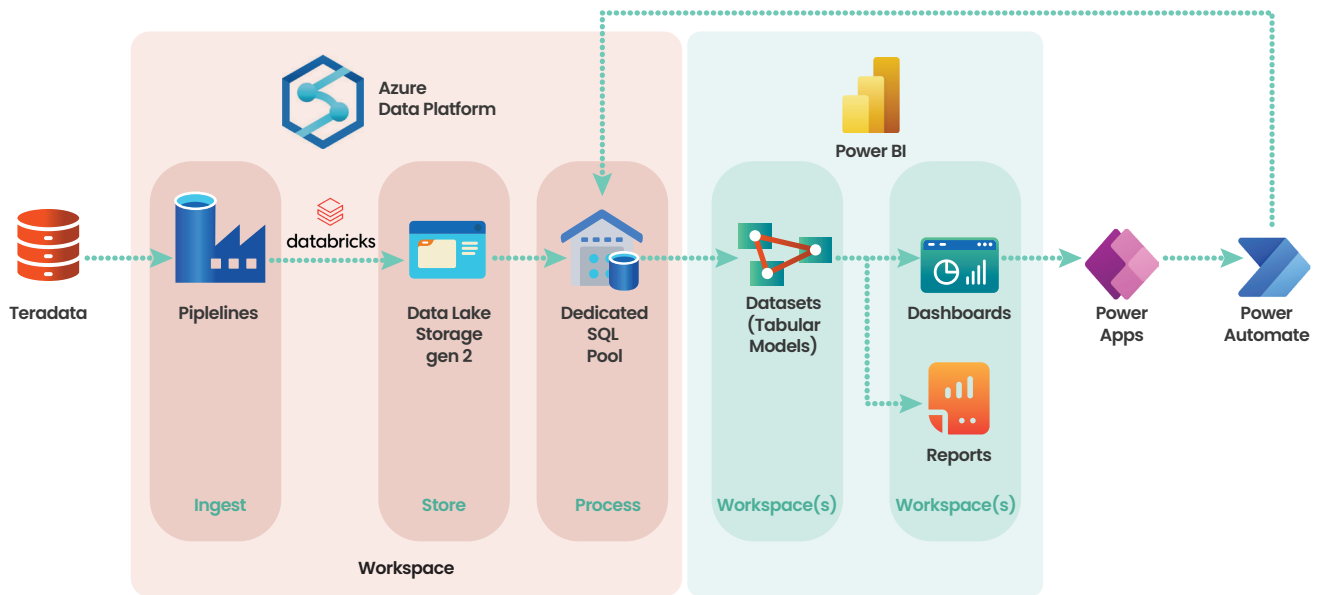
Fig 2: Future state architecture

TECHNOLOGY STACK

» **Azure** » **Synapse**
» **ADF** » **Databricks**

TREDENCE DIFFERENTIATORS: ONBOARDING AZURE DEs, IMPLEMENTING REUSABLES AND DATA TESTING FRAMEWORK FOR MAXIMUM PRODUCTIVITY

The Tredence team invested effort to understand the nuances of the data and logic, which helped the client gain application knowledge quickly. We onboarded Azure DEs in the project that ramped up quickly with minimum guidance. We also developed reusables to drive ingestion and reduce effort. In addition, we created a data testing framework that reduced QA effort by ~90%.

BUSINESS IMPACT

17
markets migrated, and two new markets added

~75%▼
decrease in dependency on legacy systems.

120+
tables migrated to Azure

100+
test cases executed as part of data testing

~25+
synapse views created for Power BI consumption, replicating the semantic layer in Teradata systems

Overall, process standardization, cloud migration, and improved performance led to less time for data flow from source to UI.

BOTTOM LINE: TREDENCE'S DATA MIGRATION SOLUTION TRANSFORMED THE BEVERAGE GIANT'S DATA MANAGEMENT

Tredence's solution helped the client reduce cost overhead, improve performance, and adapt to more efficient systems based on performance. With the successful migration of 14 markets and the addition of a new one, the client was able to decrease their dependency on legacy systems and move towards a more modern architecture.

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