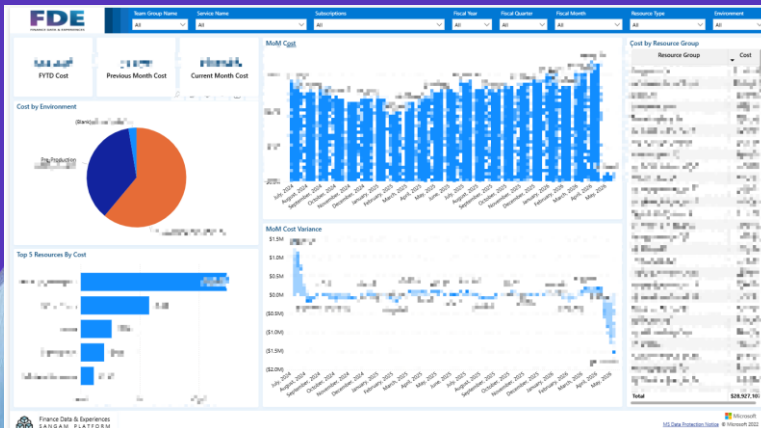


Procurement Analytics

Solution Overview

Well-managed spend and programmatic data are critical to program management in large scale enterprise operations. The FD&E Procurement BI and Analytics team leveraged Microsoft SQL BI Stack (on premise & Azure) to develop spend cubes. The cubes integrate spend data from various sources with corporate reporting hierarchies and serve as a one-stop shop to address spend queries and build deep analytics through applied business logic. The team uses DevOps to agilely and systematically integrate business requirements, development, and refresh to ensure the cube data remains relevant to the changing needs of the business.



Business Use Case

Microsoft’s annual supplier spend exceeds 70 billion US dollars and results in ~600K purchase orders opened with 40K different suppliers. When including Business Development budgets, and Co-Marketing funds and taxes, the spend exceeds 100 billion annually. Spend data is used to manage key metrics including those for supplier diversity, Scope – 3 emissions with indirect suppliers, cash flow Balance of Trade discussions, and Microsoft GDPR (Data Privacy). This spend data is de-centralized and flows through multiple, disparate, spend and purchasing channels making it hard to track and quantify. Additional complexity including supplier parenting categorization, Microsoft acquisitions, and Tier 2 spend further complicate this tracking and quantification.

Benefits

- **Speed to Data and insights:** Provides near real-time status updates resulting in faster informed and decision-making.
- **Centralized Data:** Reduced ad hoc reporting requests and spend data queries by 90%
- **Improved UI:** Flexible front-end application via Excel and PowerBI to review multiple years of data and DevOps governance to model to build new features and fix bugs

Key Results

500+

Active Users

90%

Reduction in ad-hoc reporting and queries

Technology

- PowerApps
- Power Automate
- Power BI
- Office O365-Excel
- Azure Storage
- Azure Machine Learning
- Azure DevOps
- Azure Databases
- Azure Analytics

Time taken

Launched in 3 months