COMMON ISSUES

› Operations

  › Unacceptable load performance?

  › Issues with robustness of the design?

  › Unable to handle the increasing data volumes and higher load frequencies ?

› Platform

  › Uncertainties about future of the platform and not able to support the needs of modern data platform solution

  › IBM discontinues the Netezza product line

› Development

  › A too complex design and the use of too many different tools causes long development times

› Cost/Benefit

  › High TCO cost of the platform

  › Long development times = high development cost

  › Poor customer satisfaction & Lack of functionality

AZURE DATA LANDSCAPE

A LOT OF DIFFERENT OPTIONS

Azure Data Factory

Azure Import/Export service

Azure CLI

Azure SDK

Azure IoT Hub

Azure event hubs

Kafka on Azure HDInsight

Azure SQL DB

Azure Cosmos DB

Azure Blob Storage

Azure Data Lake Store

Azure Search

Azure Data Catalog

Azure Synapse

Azure HDInsight

Azure Databricks

Azure Stream Analytics

Azure HDInsight

Azure Databricks

Azure Analysis Services

Power BI

Azure ML

ML Server

Azure Databricks

Bot service

Cognitive services

Azure ExpressRoute

Azure Active Directory

NSG
Azure network security groups

Azure key management service
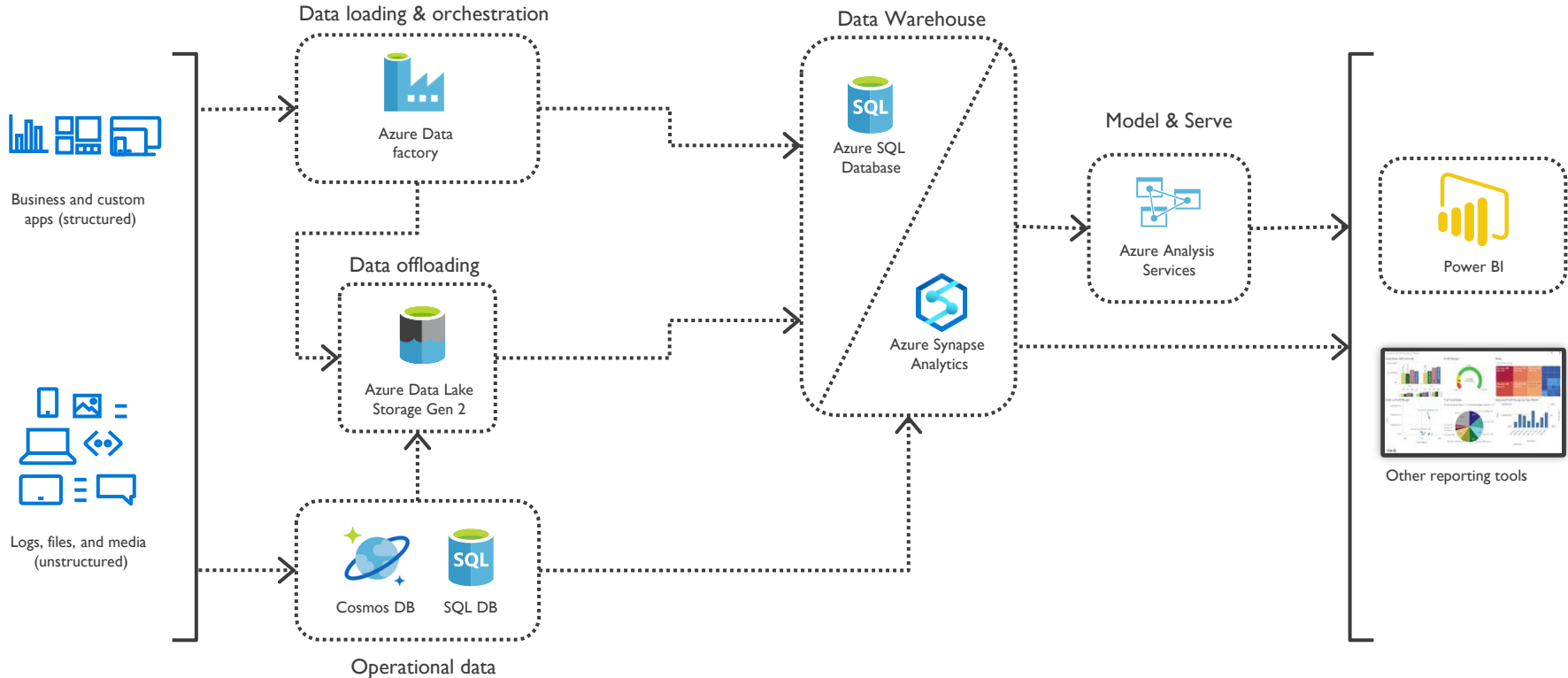
Operations Management Suite
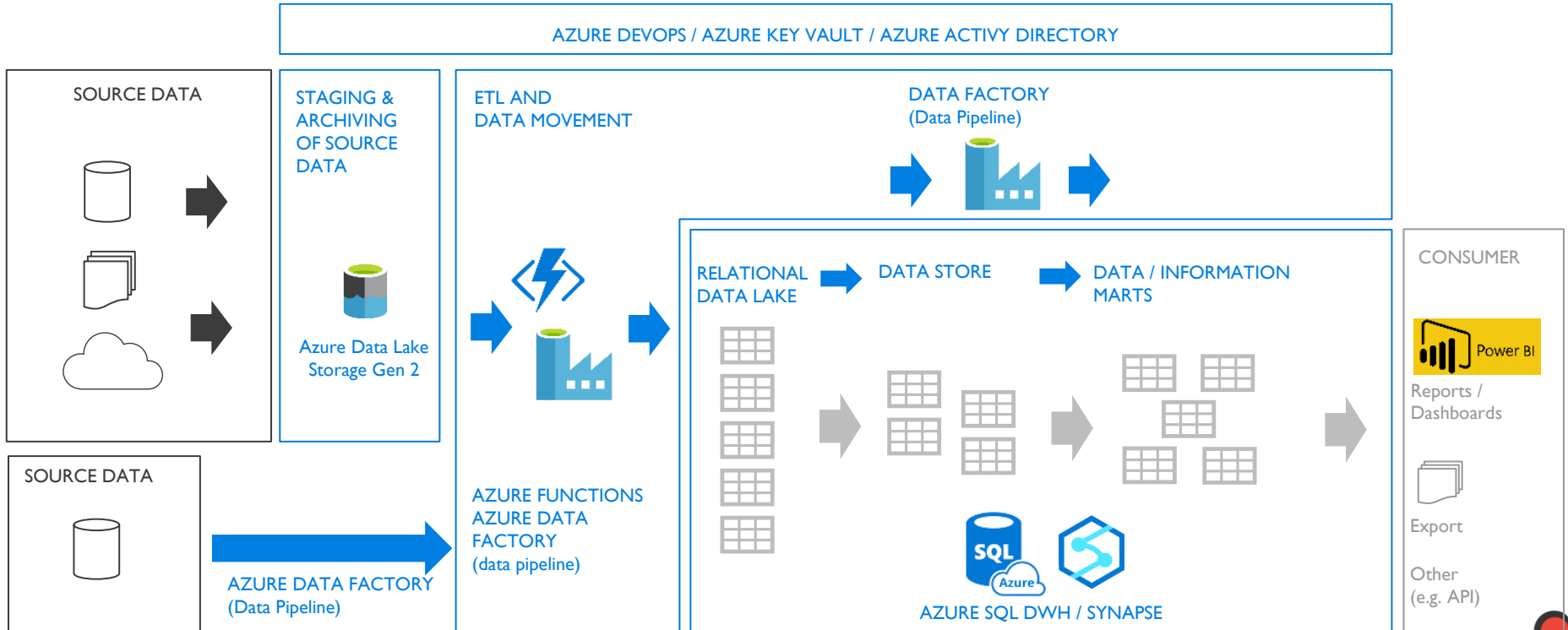
Azure Functions

Visual Studio

ZOOMING IN ON **MODERN** DATA WAREHOUSING
PROVIDING A REFERENCE ARCHITECTURE

Data loading & orchestration

Azure Data factory

Business and custom apps (structured)

Data offloading

Azure Data Lake Storage Gen 2

Logs, files, and media (unstructured)

Operational data

Cosmos DB

SQL DB

Data Warehouse

Azure SQL Database

Azure Synapse Analytics

Model & Serve

Azure Analysis Services

Power BI

Other reporting tools

DESIGN A FUTURE-PROOF ARCHITECTURE
BASED ON CLIENT NEEDS

CRITICAL SUCCESS FACTORS
CONTRIBUTING TO A SUCCESFULL PROJECT

› **delaware ETL framework** which is a consolidation of our best practices and accelerators which speed up the development process and contribute to a consistent solution.

The ETL framework presented is impressive, lots of automated things, what helps developers to do their work smoothly and fast" *(Customer Quote)*

CRITICAL SUCCESS FACTORS
CONTRIBUTING TO SUCCESFULL PROJECT

› A well thought **Architecture design**

  › Meeting both current and future requirements

  › Good balance between **cost & performance**

› Well-balanced **multi-disciplinary BI team**, with a broad expertise about all aspects of an end-to-end data platform

  › Cloud Solution Architect | BI Analyst | Lead BI Developer | DevOps Engineer | Tester

  › Based on different competences which are available within our delaware organization (DevOps, Azure Cloud infrastructure, etc.)

› A **good cooperation model** with the customer

  › Should be part of the project team

  › Provide training about the framework

OUR **APPROACH**
MOVING FORWARD

› **Assess** the existing data warehouse to define the right migration strategy

› **Pilot** execution for one subject area

› **Refine** the solution and approach based on the outcome of pilot

› **Validate** if all requirements are met

› **Scale up** to migrate other subject area in an agile way

› **Land** and leverage on the broader Azure platform

CLIENT **BENEFITS**
WHY YOU SHOULD START THINKING ABOUT THIS

› Scalable Platform

  › Ability to build modular solution, with components integrating perfectly, but scaling independently

› Leverage on the broader Azure platform

  › Extend the scope of your current data warehouse to serve all your data needs.

› Cost Effective

  › Pay-as-you-go, aligned to the business value

› Take advantage of delaware's

  › Accelerators & best practices

  › Proven experience in moving legacy solutions (e.g. Netezza) to Azure cloud

  › Extensive experience in building data warehouse solutions based on Azure