

# Data Management for Business Operations

## Large Global Technology Provider

**HCL**

**Digital &  
Analytics**

by HCL Technologies

Customer is a **Global multinational technology conglomerate** with headquarters in Redmond, Washington. It develops, manufactures, licenses, supports, and sells horizon of Software Product and Services including Cloud Platform with huge Data and AI Landscape. With US\$ 143Bn Revenue and 156000+ workforce across the Globe, this enterprise is a landmark organization for handling Data most instrumentally for its Customers and even for their internal purposes.

# Engagement Overview

**7 Years,  
70+ Engineers**

**10-17 Feature  
Teams**

**60% offshore**

**700+ sprints**

**2 PB at Rest  
100 TB In  
Motion**

**3 value ideas  
per quarter**

**\$10Mn+ Value  
Creation**

**7/7 CSAT**

- Part of global operations for business services
- Provides services to various LOBs within Operations (Commercial, OEM, MBS, Commerce etc.)
- Provides BI Operational, Analytics, CRM, BPMS & SharePoint solutions
- Lead & Participate Ops BI architecture & roadmaps
- End-2-End ownership of delivering user stories (PO, TPM, Development, UAT and Deployment)
- 100% onsite to 40:60 on / off model
- Scaled to take on BPMS and CRM work
- Transition from multiple vendors to HCL
- Work as Partner rather than Vendor

- Fragmented Data Islands
- Disparate / Obsolete tech. stack
- Manual Intervention, Suspect Data Quality
- Fragile / non-scalable Infra
- Focused on Operational Reporting
- Ad-hoc Data Governance
- No Common Framework, Lack of standardization & Integration
- Long Time to Market, Poor User experience
- No Security Compliance
- No / partial usage data

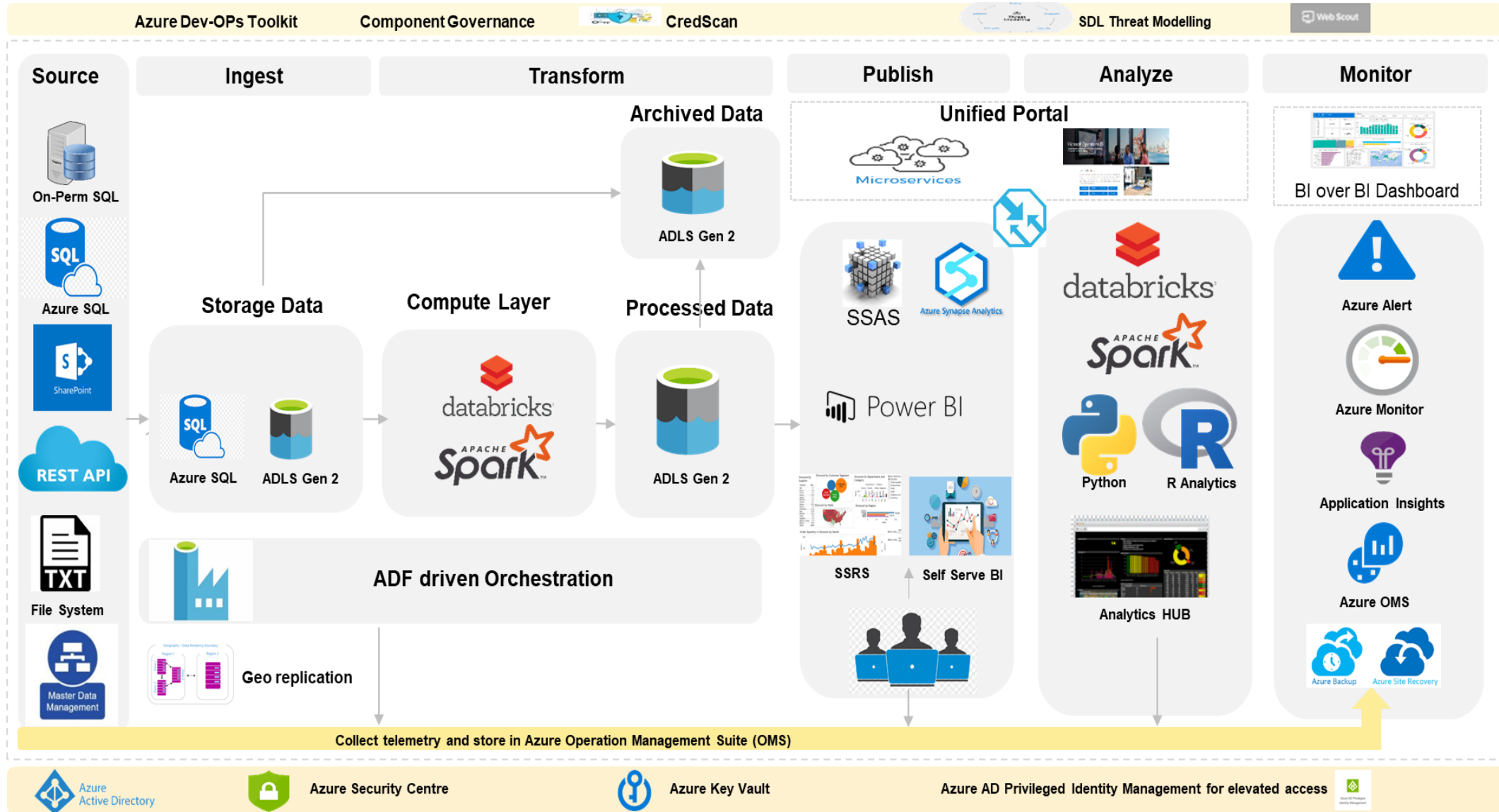
## Key Features

- ❑ Hybrid Data acquisition Azure DL
- ❑ Migration to SQL 2016 & Azure
- ❑ Data Quality Framework and DataOps Standards
- ❑ Data Science (Predictive, Mining, Forecast) etc.
- ❑ BI University, Data Dictionary, Discovery
- ❑ BI on Agile, Automation, DevOps
- ❑ Portals, Dashboards, Self Serve, NRT

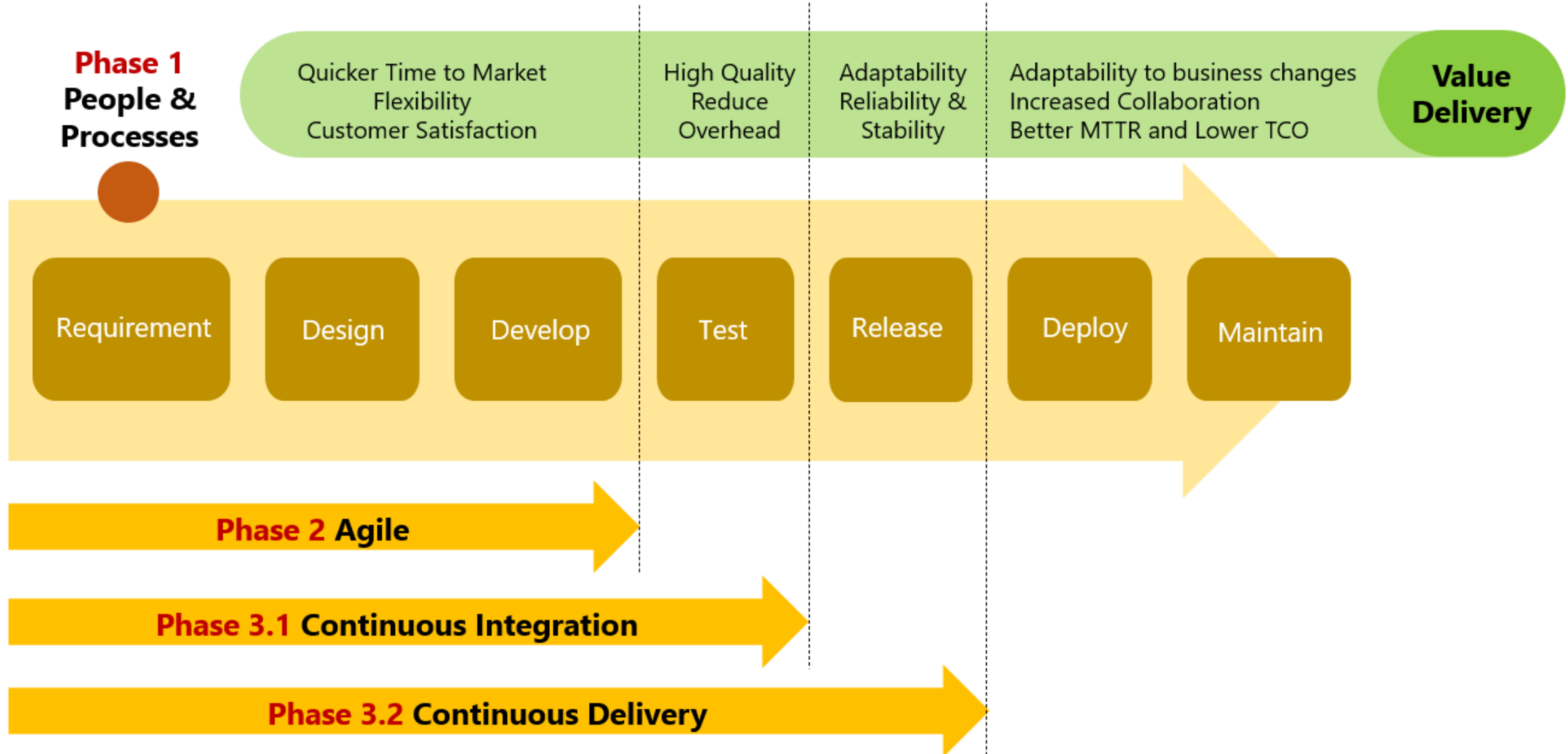
## Technology Used

- Azure Data Lake
- Azure Data Factory
- Azure Databricks
- Azure Cosmos DB [Polaris, iScope, SANGAM, Cosmos PowerShell, SQLizer, JobMan, Jarvis]
- SQL Datawarehouse
- SQL Azure and SQL Server 2016 (SSIS, SSAS, SSRS, DAX, MDX)
- Azure ML
- Programming Platforms like Python, R, Spark, Scala
- Power BI, Excel, PowerPivot, PowerView
- Application Insights and Azure Log Analytics
- Azure Active Directory
- SharePoint Online and Dynamics CRM Online
- K2.NET
- NET, Angular 4.0
- Kusto Cluster, MIST, BIML Studio

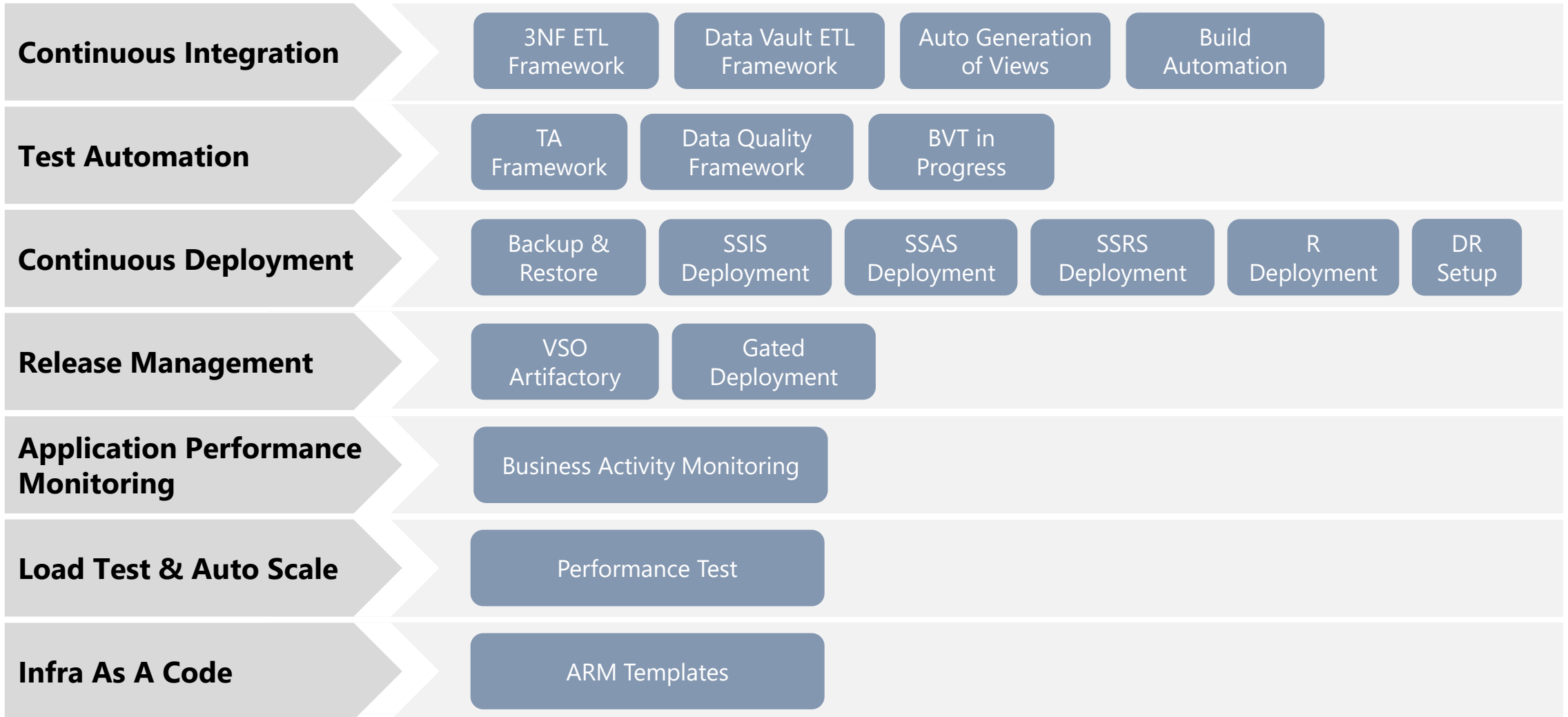
# Architectural Construct



# DataOps Life Cycle Snapshot



# DataOps Automation Enablers





- Zero issues reported at quarter close (past 3 years)
- 98% (Max) volume forecasting prediction accuracy
- \$7M+ savings on partner commissions payouts (till date)
- 20 days reduction in product launch life cycle (for each product)

**Thank You**

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