
Accion Labs

Databricks

Capabilities



Our Databricks Credentials



65

Technical
Trained

15

Technical
Certified

20

Clients

30

Lake
Houses
Built

5

Gen AI
Solutions

OUR SERVICES

DIGITAL PRODUCTS



Microservices and Cloud-native Architecture and Development

Product Engineering and Application Development

Kubernetes and Containerization Architecture and Implementation

API, iPaaS & Digital Integration

Application Re-engineering, Data Migration, Deployment QA and Testing

CLOUD ADOPTION & DEVOPS



Cloud Migration Strategy and Planning

Cloud Architecture, Governance, Security and Architecture

DevOps, CI/CD Design and Implementation

Infrastructure as Code and Deployment Automation

Datacenter, Server and Database Migration



DATA & ANALYTICS

Data Platform Modernization Strategy & Design

EDW to Data Lake/Lakehouse Migration

AI/ML, Predictive Analytics Design and Development

Data Engineering, Data Processing, Data Cleansing/Conversion Development

MDM/ Data Governance Roadmap

Dashboard, Power BI and Reporting



AUTOMATION & OPERATIONS

RPA and Process Automation

SRE & Cloud Operations

Salesforce & Service Now implementation

QA & Test Automation

SLA-backed Managed Services

CLOUD AND INNOVATION ENGINEERING SERVICES

Our Azure Data & AI Offerings

CLOUD-SCALE ANALYTICS

Power Business Decisions with Azure Data Platform

- Data Lake & Data Warehouse
- Lake House
- BI Reporting, Dashboard and Analytics
- Streaming data Analytics

- Azure Databricks
- Microsoft Fabric
- Azure Synapse Analytics
- Azure SQL MI, CosmosDB

UNIFIED DATA GOVERNANCE

Govern, protect, & manage your entire data estate

- Data Catalog and Classification
- Data Quality
- Data Lineage
- Master Data Management

- Microsoft Purview
- Profisee

AI & ML OPS

Turbocharge your GenAI and AI/ML initiatives

- Risk Analytics
- Cognitive Services
- Document, Audio & Video Processing and analytics
- NLP & Sentiment analytics

- Azure Open AI
- Azure Cognitive Services
- Azure ML Service

EDW / DWH MODERNIZATION

Modernize your Data Estate with Azure Data Platform

- Re-engineer EDW Workloads
- Enterprise DBs to Cloud DWH
- On-prem to Azure Migration
- Spark Data Engineering
- SQL Server, Oracle, Hadoop, MySQL, PostgreSQL

- Azure Databricks
- Microsoft Fabric
- Azure Synapse Analytics
- Azure SQL MI

Data ISV's Partnerships



How Accion Labs works with Databricks

Greenfield Data Platform Build and Sustenance

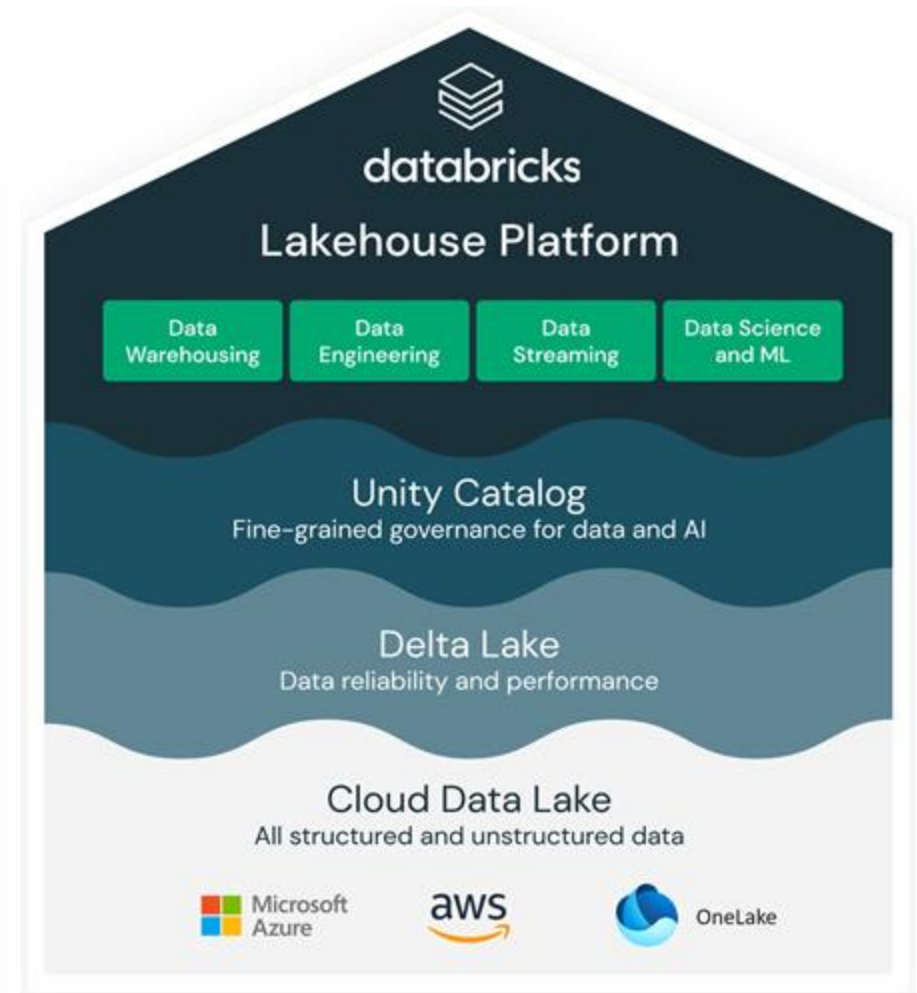
- Build a data platform from scratch
- Gather and Understand Requirements
- Build a roadmap
- Iterative Build and Sustenance of Layered Data Platform
- Build and Deliver Applications
- Enable Data Quality and Governance

Data Lake/DW Modernization and Sustenance

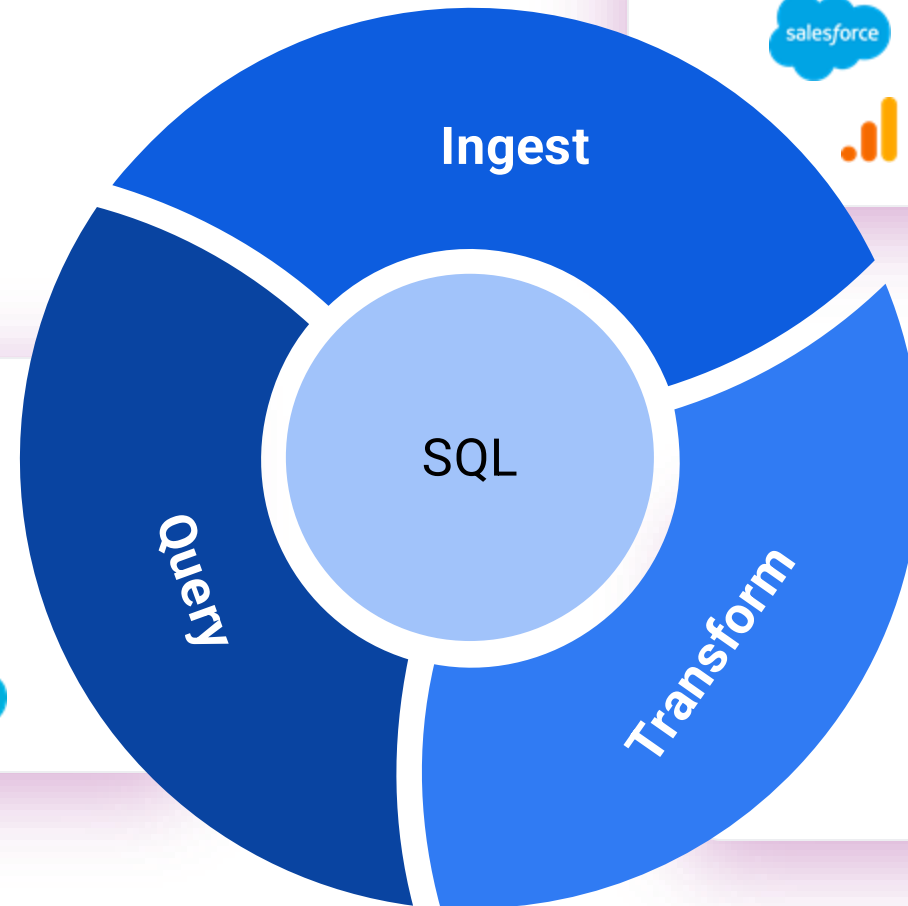
- Gather and Understand current and upcoming needs
- Perform a fit gap analysis with existing ecosystem
- Prioritize and build a roadmap
- Iterative Accelerated Build using accelerators wherever possible to convert
- Downstream compatibility enabled iterations
- Build and Deliver Applications

Advanced Analytics Solution Build and Sustenance

- Curate and Build Datasets based on the applications
- Build the Analytics models
- Build the applications or integrate datasets back into the data platform
- Perform Sustenance of the applications



Ingestion with Databricks



Self-served data ingestion from
**cloud storage, local files, or
business critical applications**



Query the freshest data in SQL, and
build **apps** and **dashboards** with **any
tools** powered by the lakehouse



{REST:API}



A **familiar toolkit** to discover and
transform all your data in-place
using **standard SQL**



Unity Catalog Implementation

Delegation of Management (admin isolation)

Each SDLC environment has its own admin

Workspace to catalog binding

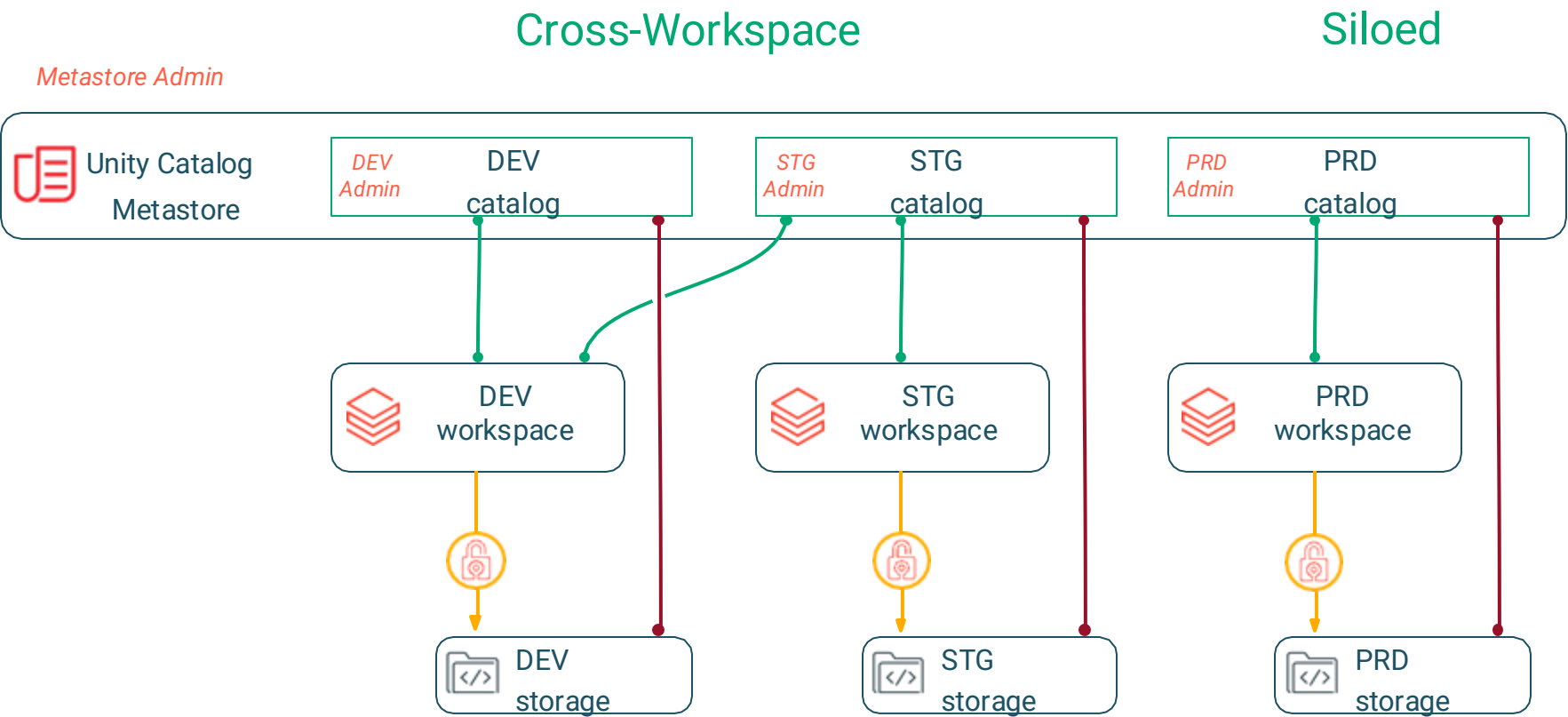
The PRD workspace is fully isolated and has its own catalog. DEV workspace has access to DEV and STG catalog

Storage isolation

Separates the storage locations on catalog level
(typically sufficient)

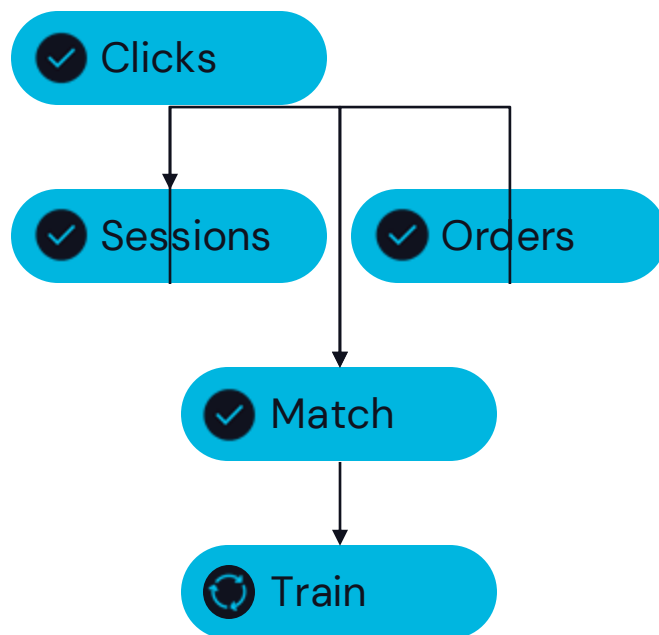
UC Access Control

Users should only gain access to data/
metadata based on agreed access rules



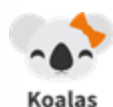
Databricks Workflows

Orchestrate...



...any task...

Delta Live Tables



Auto Loader



mlflow



non-Spark



+more

...across any platform

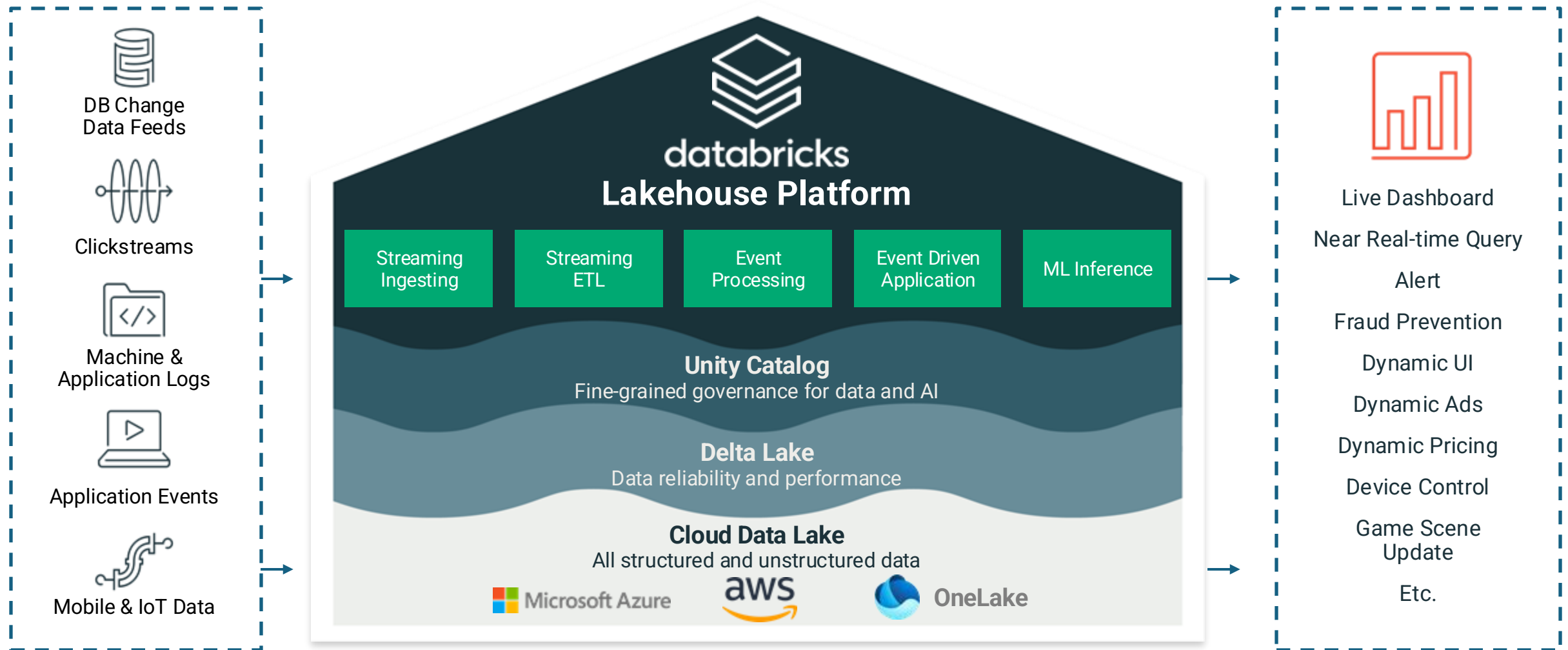


talend



+more

Streaming Applications (with Structured Streaming)



Building ML using Databricks



Model Building and Training



Model Tracking and Registry



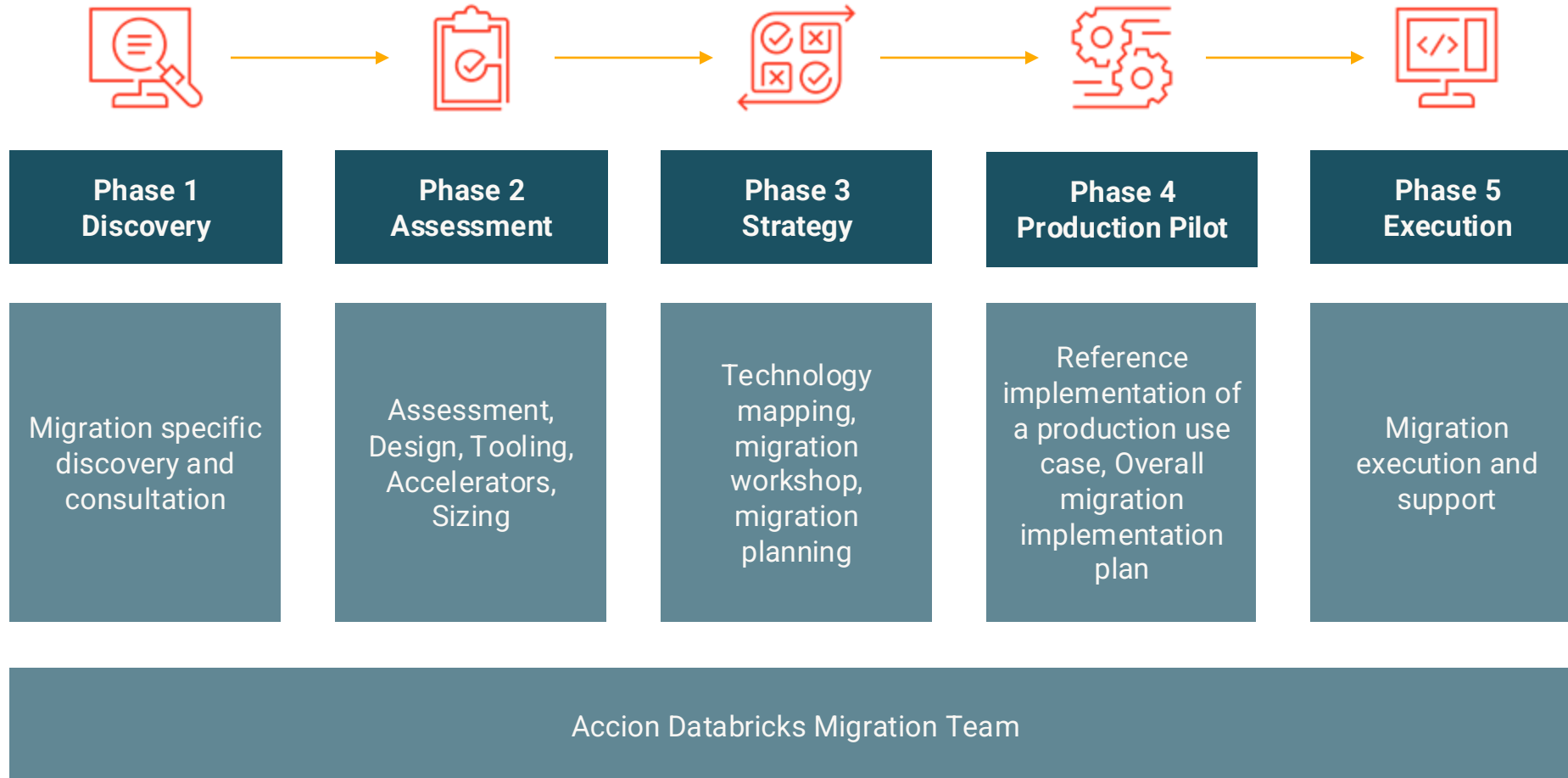
Runtime and Libraries



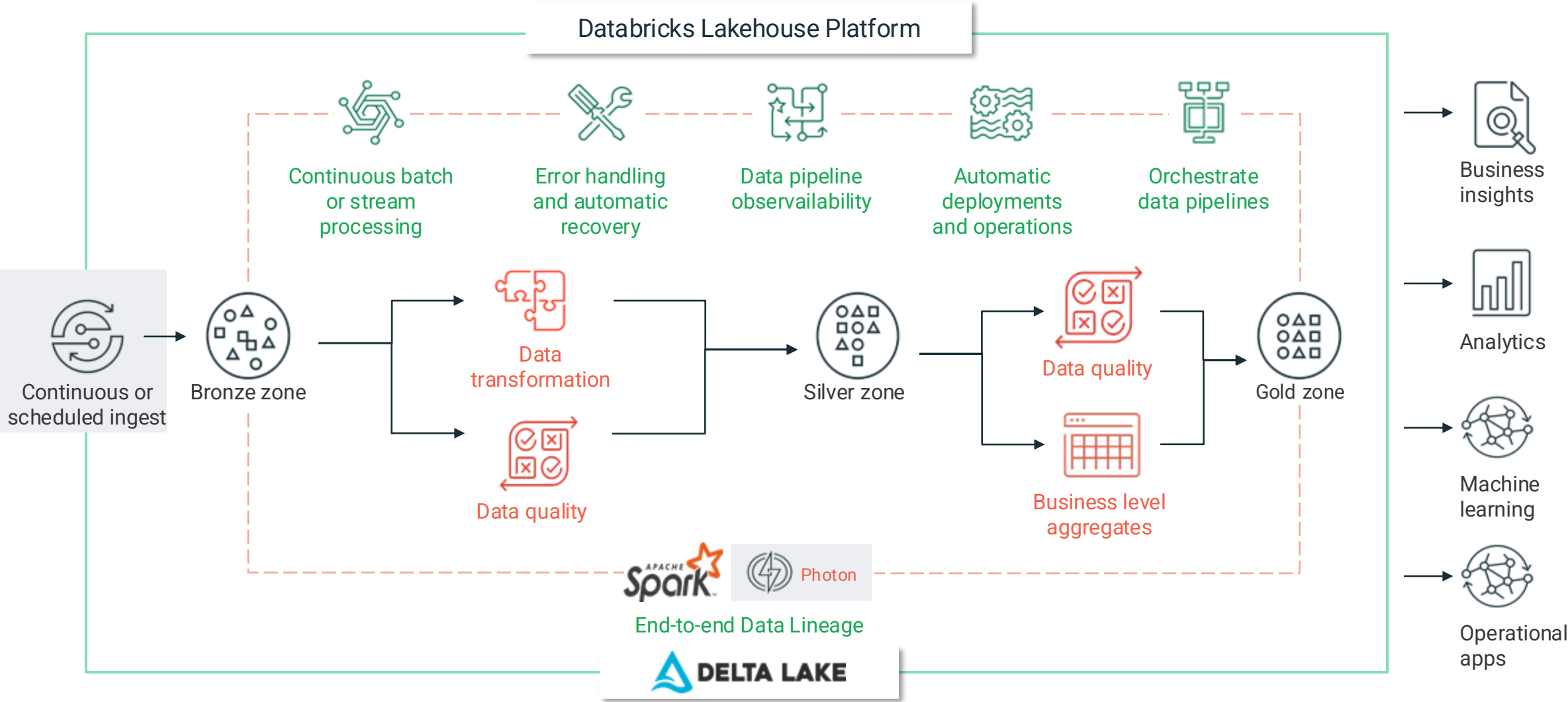
Automation and Governance

Modernization Methodology and Approach

Accion Modernization Methodology



Modern data engineering in Databricks Lakehouse Platform



Driving Success using Databricks – Select Case Studies



Industrial Printers

Predictive Maintenance,
Sales forecasting.

Databricks Delta Lake, Delta Live Tables,
Power BI



Leadership Development

Course Completion and
Revenue Prediction

Databricks Delta Live Tables
Unity Catalog, Oracle ERP,
D365 CRM, Marketo, DRIFT



Compressor Manufacturing

SAP HANA to Databricks Migration
Databricks Lakehouse, Workflows, Delta
Tables, Power BI, SAP HANA, Multiple SAP
Environments



Financial Advisory and Consulting

Delinquency ML Model, Gen-AI using
Mosaic, Data Consolidation

Databricks Lakehouse, Mosaic, ML
Models, Delta Tables, SAP, ServiceNow,
Salesforce



Global Publication House

Business Warehouse with Self-service
Reporting capabilities

Databricks Delta Live Tables, Databricks
Lakehouse, SQL Server, Power BI,
Marketo, Open Library



Healthcare ATS Platform

Candidate Prioritization, Candidate Profile
Matching, Natural Query for searches
Databricks Lakehouse, Databricks SQL,
Databricks Workflows, Unity Catalog,
Bullhorn ATS, Azure OpenAI, Redis



Community Bank and Financial Services

Warehouse Migration and Modernization
Databricks Lakehouse, Unity Catalog,
AWS Redshift, Google BigQuery, Looker,
Power BI



Educational Programs

Warehouse Migration
Databricks Lakehouse, SQL Server,
Workflows



Telecommunication Services

Bills generation, Complex Events
Processing (Streaming data)
Databricks Lakehouse, Spark
Streaming CEP, Databricks as
ODS,