

## How do we help?

## IMPLEMENTATION SNAPSHOTS

## Data Estate Optimization

- Data Ingestion
   Optimization
- Data Lake Automation
- Data Warehouse Optimization
- Data Cataloging and MDM

## Data Migration and Integration Excellence

- Data Synchronization and Replication
- Transformation and Cleansing Strategies
- Data Quality
   Assurance
- Change Data Capture (CDC) Solutions

#### Data Monetization

- Communal Data layer with external and internal user access
- Embedded Analytics enabling customers of customers
- Product Engineering with Data driven Engine

## Analytics + Al

- Dashboarding
- Role-Based Access Controls (RBAC)
- Self Service Analytics
- ML Model deployment

**INSIGHTS** 

 Al based actionable Insights

### Advanced Intelligence

- Event-Driven
   Architectures
- Gen Al based interactive chatbots
- Prescriptive Analytics

DATA

## **AVENUES OF ENGAGEMENT**



#### **ADVISORY**

- Discovery Workshops
- AdoptionPrograms
- COE Setup



#### **IMPLEMENTATION**

- End to End Module
   Development
- Enhancement
- Milestone based or Time based



#### **SUPPORT**

- L2, L3 Support Desk
- Dedicated Support & Automated Ticketing



#### MANAGED SERVICES

- Development & Project Management
- Multi track program management
- Hosting & Licensing
- Security & Compliance adherence support

## INSIGHTS Business Data Data Real Time Data Data Science Intelligence Integration Warehousing Analytics Engineering Unstructured **Data Quality** Data Lineage Ingest Transform Storage Monitoring Structured Structured Lakehouse Warehouse Lakehouse Warehouse OneLake Workspace B Workspace A **Unified Management & Governance** Visualization **Functional** Data Data Data Data Decision

Analyst

Scientist

Engineer

Maker

Steward

Owner

Engineer

# POLESTAR'S DATA NEXUS

Data Nexus provides a flexible and unified framework for managing, accessing, and analyzing your Data Estate - enabling real-time access and agile decision-making. It includes data and insights

- **1** Data Lake Automation Framework
- 2 Data Quality Automation Framework
- **3** Data Profiling Wizard

## Polestar's Data Nexus: Data

Modernize your data estate using our in-house developed accelerators

# Data Lake Automation Accelerator

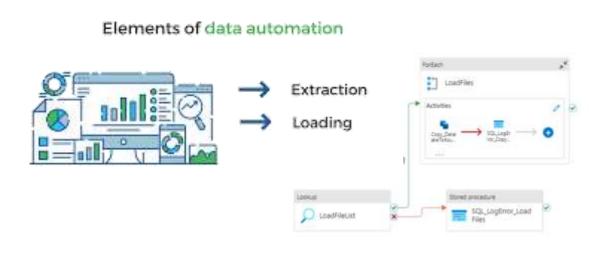
Configurable Accelerator designed to automate data lakes. Set up new data pipelines (Databases, REST APIs, and modern Web UIs etc.)

# 2 Data Quality Automation Accelerator

Accelerator designed to automate checks, identify discrepancies, and elevate data quality for seamless, error-free insights.

## 3 Data Profiling Wizard

Executes on top of Polestar Data
Nexus to provide continuous
Data Profiling of Master and
Transactional Data



- Connect to any source system
- Move Incremental Data and Historical data to Lake
- Audit and Reporting with logs
- Configurable Framework to Add/ Edit/ Delete
   New Tables, New Columns with the help of
   Metadata for different timelines
- Following Best practices to enable Parallelism in Data loading resulting in quicker data extractions



- Metadata based Configurable Framework to automate data quality at Column Level
- Already have 100+ different data quality rules
- Data Quality rules starting from Row Level like "Value > 0" to Column level like "Column Median should be < 1000" can be configured via Configuration file with no code level changes



- Data Load Summary to provide latest updates with Altering mechanism for Failures
- Data Recon Reporting for Every Loads
- Profiling of all the data including Masters and Transactions
- Column level sampling for every tables

# Polestar's Data Nexus: Insights

# AI/Generative AI/ML

- Deep Learning Models: Utilize neural networks with multiple layers to identify complex patterns and forecast future trends and behaviors
- Natural Language Processing (NLP): Extract insights from unstructured data through techniques like sentiment analysis and entity recognition.
- Anomaly Detection: Identify unusual patterns or outliers in data, crucial for fraud detection and anomaly prevention.





# Data Democratization

- Data Access Control: Rolebased access control (RBAC) and fine-grained permissions to regulate access and rights to specific datasets.
- Analytics COE: Setting up
   Analytics Centre of Excellence
   to propagate data driven
   decision making

## BI/MIS Reporting

- Standard Enterprise wide reporting packs
- Descriptive and Diagnostic Analytics (what happened and why did it happen?)
- Statutory Reporting





# **CXO Dashboards**

- Display mission critical KPIs aligned with organizational goals, enabling CXOs to get a bird eye view of performance
- A single screen with drilldown capabilities that allow CXOs to explore deeper insights to view outliers
- Decluttered scorecards accessible across multiple devices/platform to enable insights on the go!

## Self Service Analytics

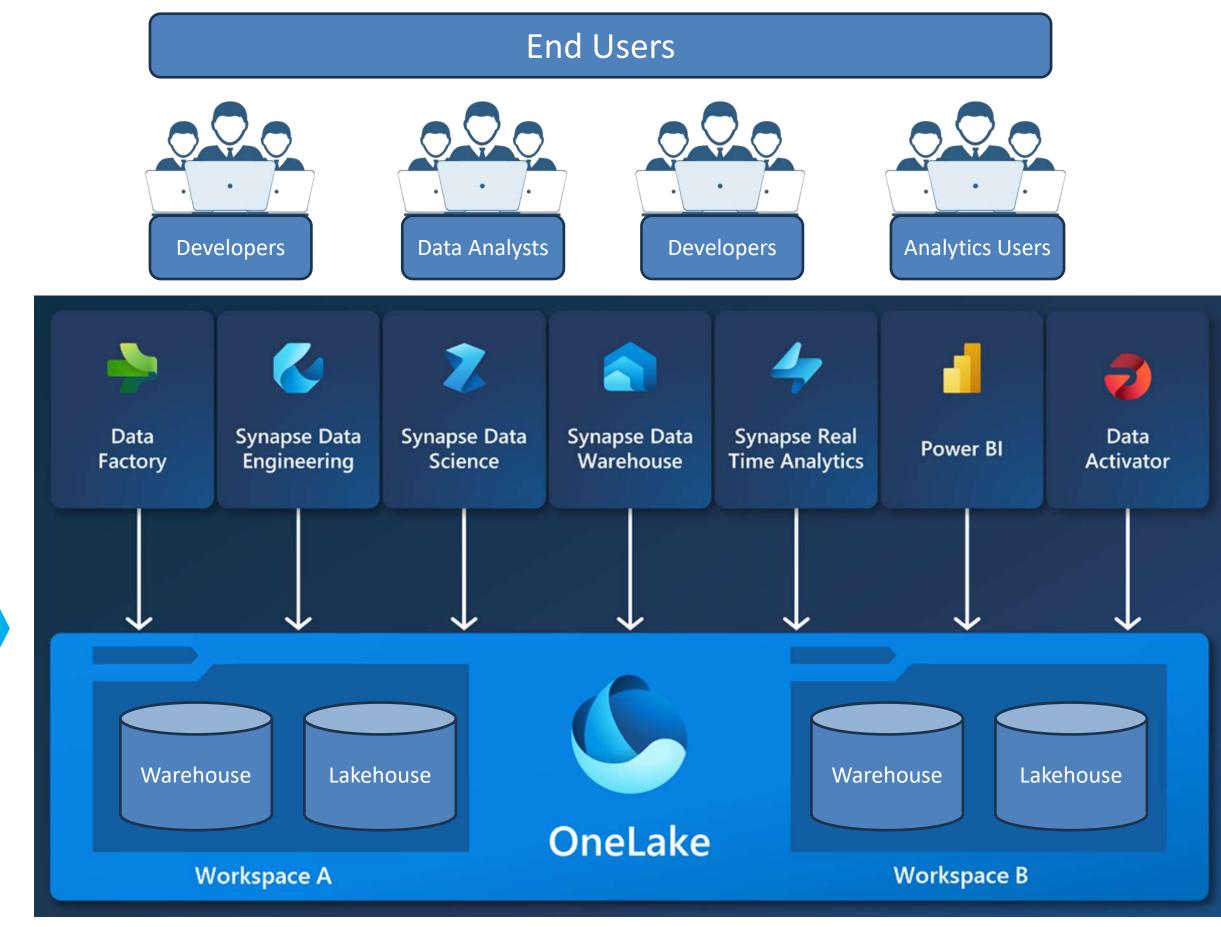
- Self Service Analytics Apps to allow users to play around with the data
- Intuitive Insights
   recommendation with simple
   drag and drop capabilities
- Quick Ignition for individuals/smaller teams

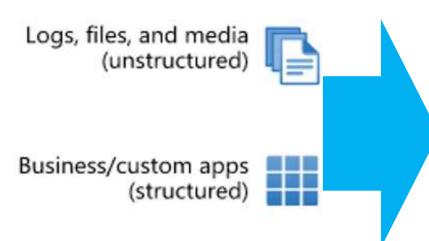




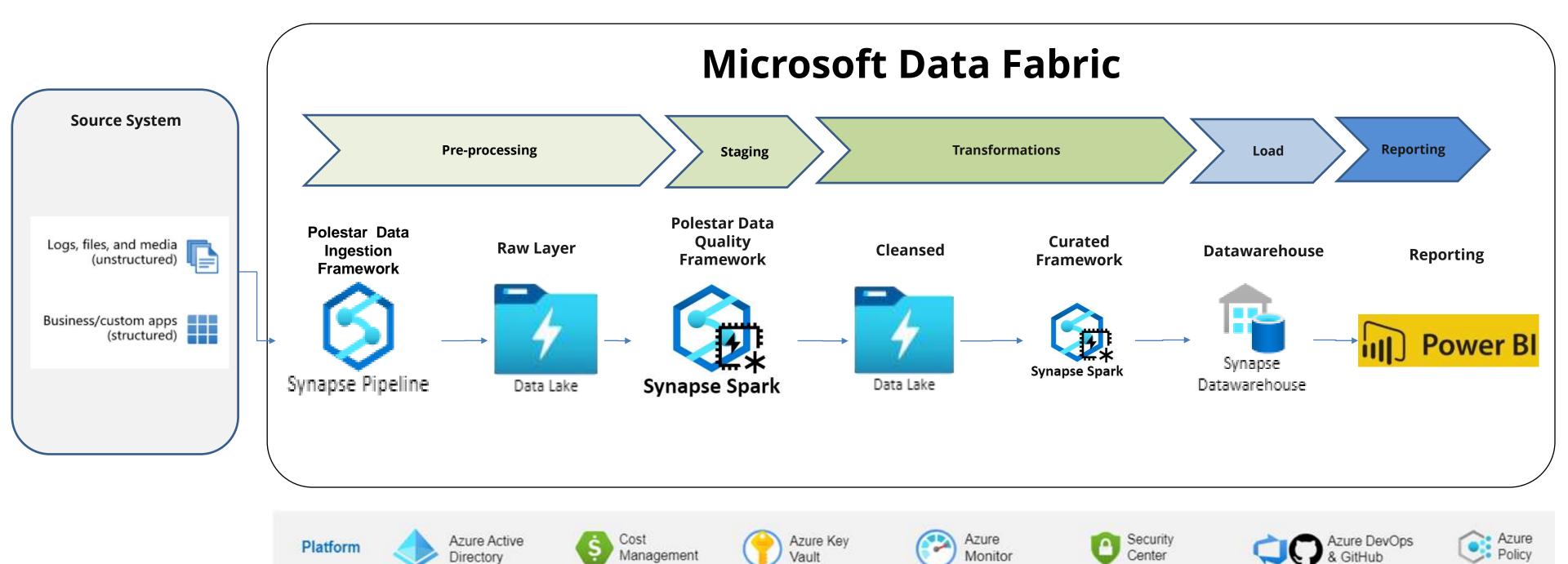


## Architecture – Microsoft Fabric





## Fabric - Architecture



Vault

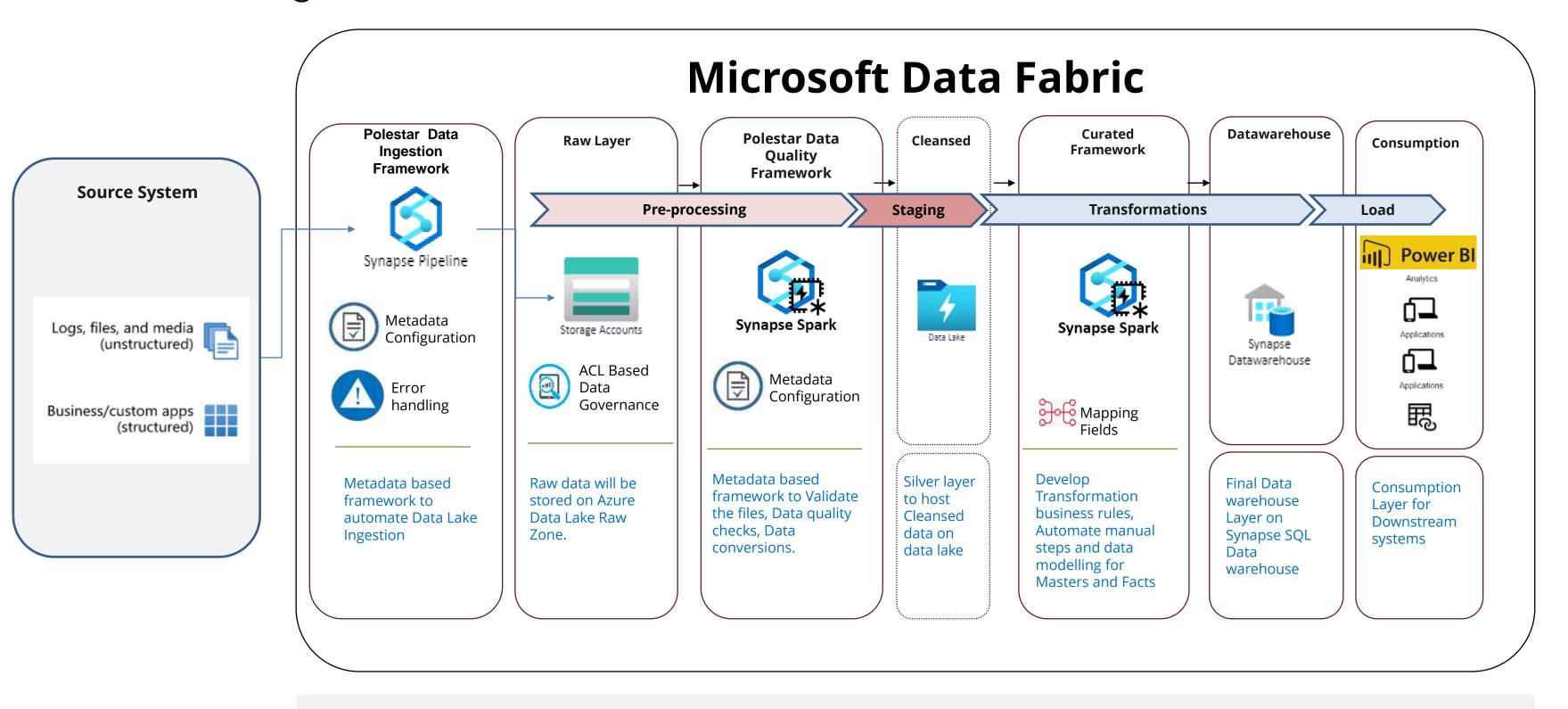
Monitor

Center

Management

Directory

# Fabric - Logical Architecture

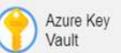




Platform



Cost Management











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Thank You.









