

Tiger Analytics

Analytical Data Foundation : 10 Weeks POC

www.tigeranalytics.com



Tiger
Analytics

AI and Advanced Analytics efforts can stall if the underlying data is not well managed and accessible.

Timely access to high quality data can be the differentiator between a mediocre versus a stellar return on Advanced Analytics and AI projects.



CHALLENGES

Experiments need to consume new and emerging data sets from heterogeneous sources on a regular basis. Proliferation of varied tools with limited integration, multiple versions of the same data and lack of proper controls and governance impede progress in the long run.

IDEAL SOLUTION

An analytical data foundation can address the needs of a wide spectrum of data user personas by giving them access to the right data at the right time.

DESIRED OUTCOMES

The Analytical Data Foundation should address 3 key priorities; establishing a robust enterprise wide data platform, enabling efficient data operations, and ensuring business ready data for insights.



Tiger Analytics

Analytical Data Foundation

The Analytical Data Foundation is designed to address a host of challenges by offering

- **Enterprise data ready for advanced analytics**
- **Real time data ingestion**
- **Data harmonization using Machine Learning**
- **Track business critical metrics in real time**
- **Cost effective framework**

“NO-SILO” DATA PLATFORM

Analytical data foundation provides ease of integration of new data sources (Extensibility), reduced development times (Speed), simplified end-to-end data journeys (Simplicity), adaptive addition of new components (Agility), better value for IT spend (ROI) and ability to meet growing needs (Scalability)

EFFICIENT DATA OPERATIONS

Automated, continuously monitored and improved data pipelines, data quality and metadata repositories ensure that AI/ML and advanced analytics initiatives can evolve out of the AI lab and integrate with live business applications and data in production.

BUSINESS READY DATA FOR INSIGHTS

High quality, trusted data with the right governance in place to enable access empowers democratization of analytics and insights and enables the ability to quickly develop and deploy insight solutions.

Tiger Analytics + Microsoft Azure Analytical Data Foundation

Tiger Analytics leverages the power of Microsoft Azure cloud platform to build and deliver a customized Analytical Data Foundation in a matter of days, not months, so that your data can unlock its full potential.



BATCH AND STREAMING DATA PROCESSING

Tiger employs best practices-based approach to support batch as well as streaming data ingestion and processing using Azure Data Factory, HDInsight, and Azure Databricks.

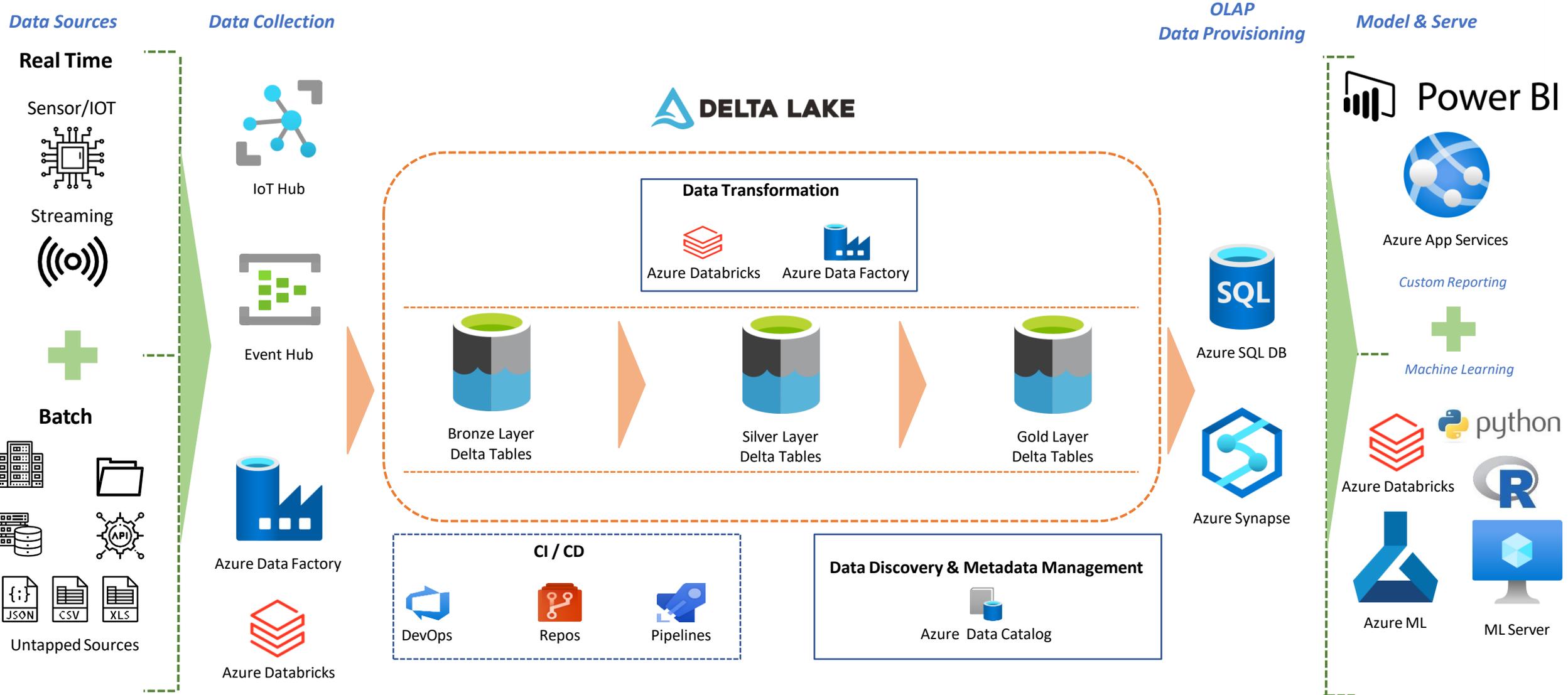
ADVANCED ANALYTICS AND AI

Tiger supports the enablement of customized Delta Lake layers (Bronze., Silver, Gold) to facilitate fast and accurate analytics and machine learning outcomes by utilizing Azure Synapse Analytics and Azure Machine Learning services. Insights can be surfaced via Power BI

SECURITY, GOVERNANCE, AND COST CONTROL

Tiger utilizes a host of Azure services such as Azure Monitor, Policies, AD, Cost Explorer etc. and tools such as Azure Data Catalog to build a secure, well-governed and cost-effective solution.

Platform Architecture Overview



* Illustrative Overview. Components of the architecture will depend on the use case and complexity

Analytical Data Foundation: Salient Features

Tiger's AI enabled solution helps establish a data foundation which integrates the external with internal data at the lowest level of granularity. The solution uses ML techniques to learn from historical mapping and user inputs to help automatically harmonize the data.



INGESTION & HARMONIZATION

Using Machine Learning to automate data import from all internal and external sources based on a defined schedule or trigger. Harmonize data at most granular level and aligned to company's product and location hierarchy (MDM).

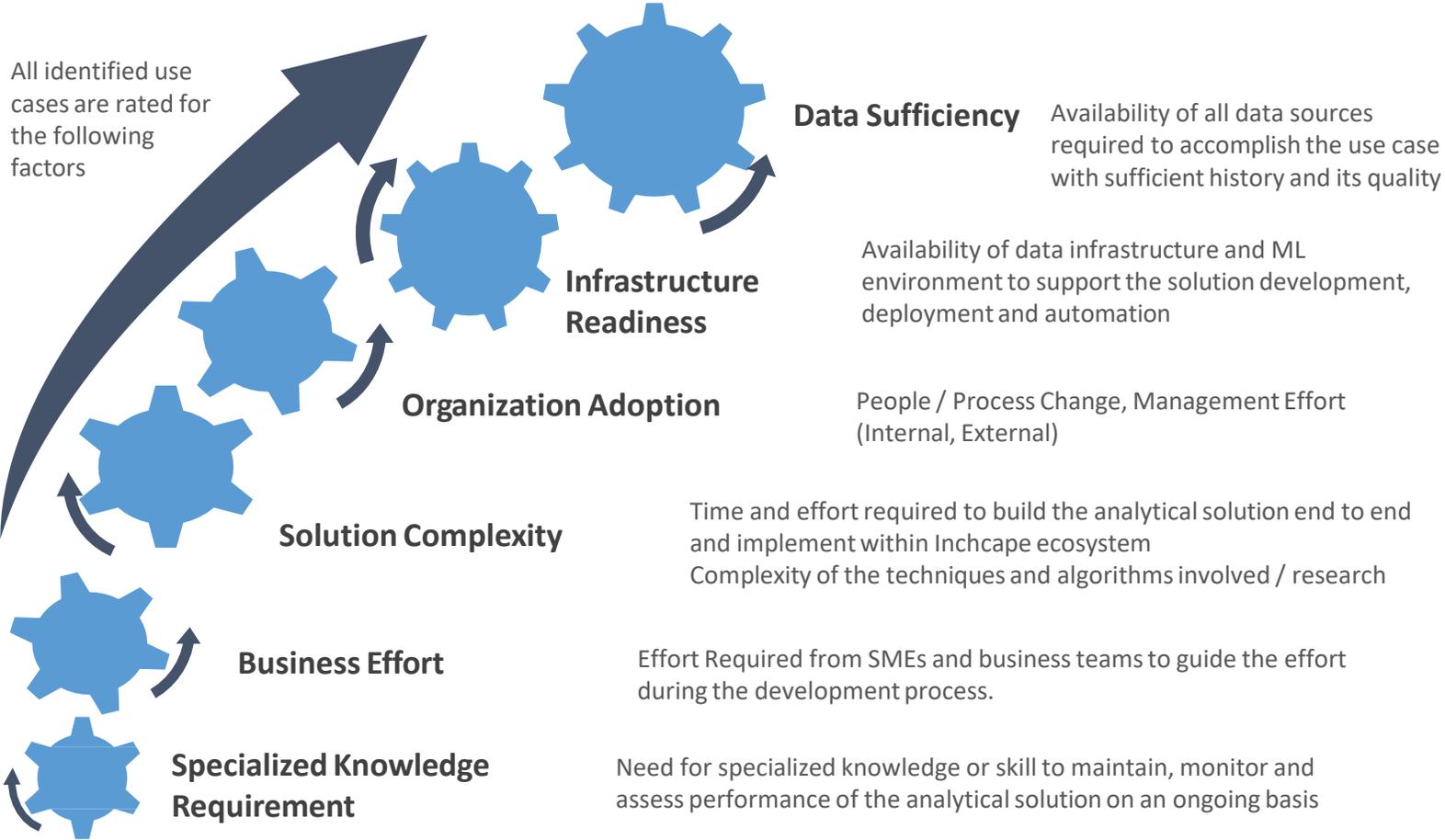
INTEGRATION

Ability to integrate external data with internal data to enable various type of analysis. This creates a single source of data for all analytics carried out by different business units and functions

METADATA & DATA GOVERNANCE

Creating a metadata layer to ensure that data fields are mapped to correct business metrics. This would be key to enable business associates to conduct self-service analysis. Maintaining and inventory of all data sources along with their attributes to get a full picture of the scope of data availability.

Proof-of-Value Driven Assessment: Complexity parameters determine MVP use case



Weights
w1
w2
w3
w4
w5
w6

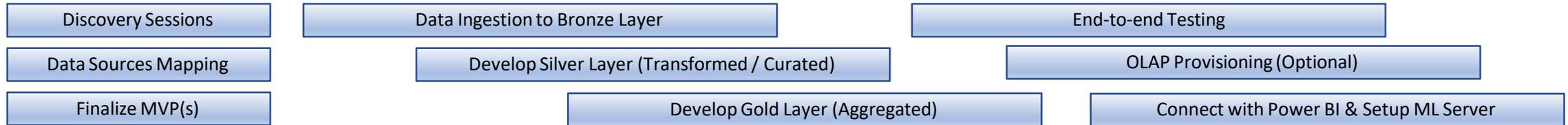
**PRAGMATIC
PRIORITIZATION TO
BETTER DEMONSTRATE
ROI**

Upfront articulation of business value to identify the minimum viable programs (MVPs)

Tiger Analytics Accelerated Delivery Approach



Sample Action Steps



Sample Deliverables

- Requirements Documents (Functional / Non-Functional)
- Architecture Documents
- Value – Complexity Matrix
- Identify MVP

- Databricks Notebooks
- ADF Pipelines
- Setup Dev. Environment
- Setup Source Control

- Databricks Notebooks
- ADF Pipelines

- Databricks Notebooks
- ADF Pipeline

- Power BI Report Demo
- ML Deployment Demo
- Roadmap

*Estimate will depend on the complexity of the use-case (MVP) and data sources

Accelerate your advance analytics journey with Tiger Analytics: Analytical Data Foundation

Get an assessment for your customers

Call for more information: +1 (480) 648-3762

Ask a question via email: partnership@tigeranalytics.com

Learn more: [Azure Marketplace – Tiger Analytics](#)

