Build Your Modern Data Landscape with our Data Lakehouse Solution on Microsoft Fabric

Our MVP Solution Offering

Powered by Microsoft Fabric

Confidential & Internal

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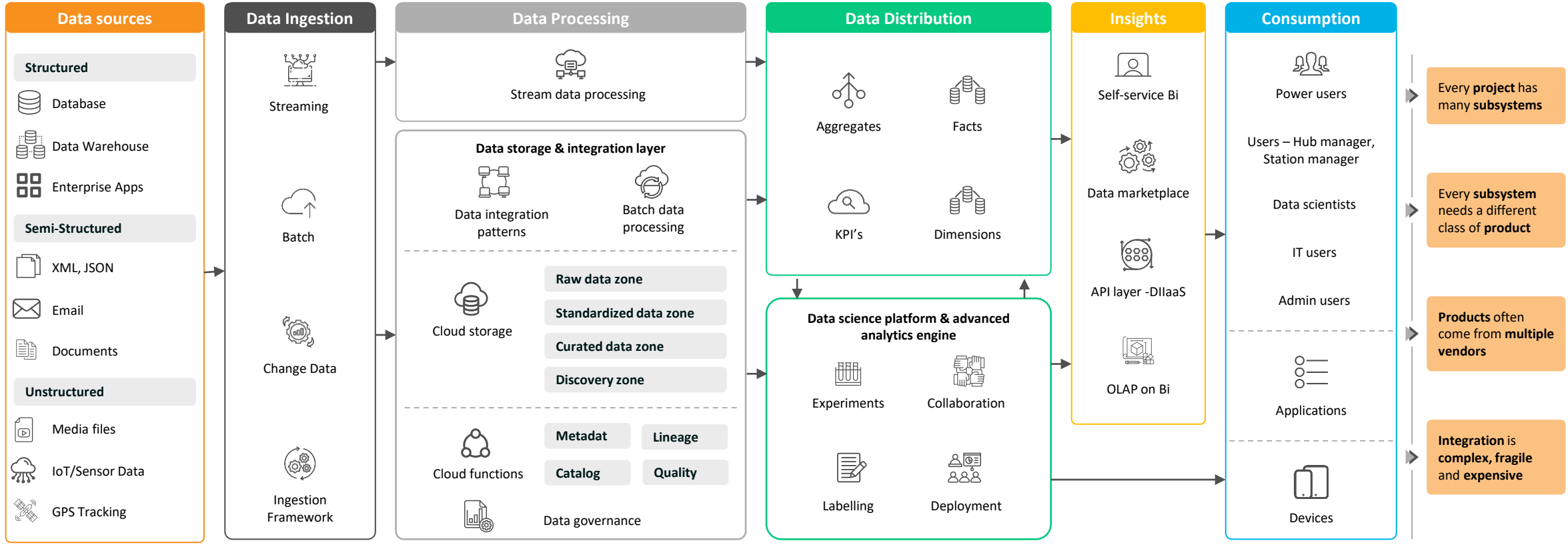
Content

01

Challenges & Opportunities: Implementing a Modern Data Platform

Modern Data Platform Implementation Challenges

Data and Analytics Platform is Complex and Fragmented



Security & Networking

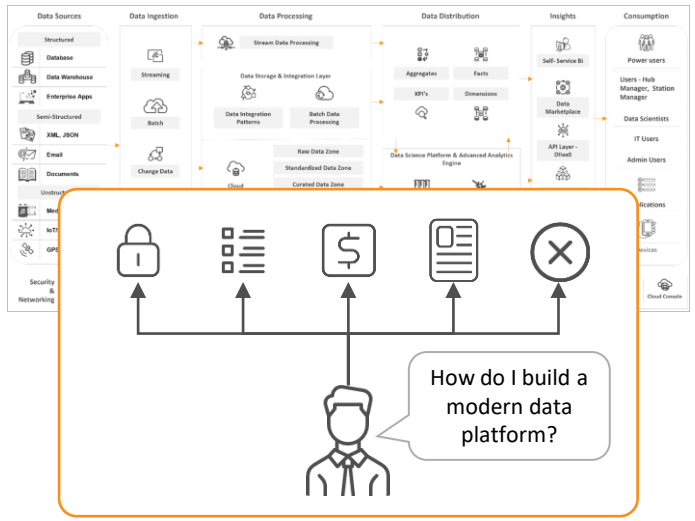
IAM | Security scanner | KMS | Key enforcement | Virtual network | Load balancing

DevOps & Deployment

Cloud CI/CD | Container engine | Container registry | Monitoring | Logging | Deployment manager | Cloud console

Many Products	Proprietary and Open	Different Experiences	Steep Learning Curves	High Integration Effort
PaaS and SaaS	Dedicated and Serverless	Different Business Models	Deep Expertise Needed	

Specific Challenges in Building a Modern Data Platform



Challenge 1	Challenge 2	Challenge 3	Challenge 4	Challenge 5	Challenge 6	Challenge 7	Challenge 8
What all **tools** do I choose? (ADF, Spark engines, Storage, Reporting etc.)	How do I **setup and manage** all the tools?	How do I **Monitor & Optimize Cost** across these toolsets	How can I be **agile** & achieve **faster TTM** (time to market)	How can I build a **future ready, scalable and a reusable platform**?	How do I cater to both **batch & streaming** datasets?	How to have a platform which can integrate **DE, DS and DA** workloads?	Finally, How can I **Simplify it all**?
MS Fabric SaaS has all these Experiences built in	MS Fabric SaaS = No Infrastructure to setup or manage.	MS Fabric has Monitoring hub + Optimizations built-in	AI/Co-Pilot assisted + Low/No Code tools	MS Fabric has Built-in Scalability + Is the future	MS Fabric supports Batch & Streaming data sets	MS Fabric unifies DE, DS and DA Experience (tool sets)	Simply Try MS Fabric !

Microsoft Fabric | The Data Platform for the Era of AI

A unified **SaaS** platform for your Analytical needs..

Data | Storage, Integration, Engineering, Warehousing, Analytics (real time), Science, Visualization all of these in one unified SaaS platform.

Microsoft Fabric

OneLake

Unified LakeHouse with an Open Format

Data Integration

Low-Code No-Code support for NoteBooks for Ingestion Jobs

Schedule & Run Jobs without managing Clusters

Data Warehouse

Powered by Delta Parquet
Accessible through SQL and Spark
Decoupled Storage & Compute
Organized around Workspaces

Data Science

Run NoteBooks within seconds without managing Clusters.

Train Models and Experiment between different Models Versions

Real-Time Analytics

Ingest & Query Real-time Data within seconds and Stored Real-Time Data in OneLake

Business Intelligence

Reports & Dashboard with Power BI

Unified Security

Across all types of Data Stores & Engines

Shortcut

Enables Poly-Cloud with easy Access to Data Sored in Other Clouds

Features

Simplicity	Time & Effort	Scalable & Optimized	Unified & Open Standards	Business Value
Less complex. Just simple	Reduced manual effort	Auto-scalable	Centralized security & monitoring	Faster time to market
One Lake accessible in win-explorer	Instant provisioning	Auto optimized + Auto integrated	Based on open standards	Future-ready & re-usable platform
No install. Just Internet & Web browser needed.	No infra to manage	Optimal use of cloud infrastructure	Delta-Parquet open standard storage	Integrates with existing Azure components

02

Our Offering

Our MVP Solution Offering
Powered by Microsoft Fabric

It can Deliver

- Blistering Fast
- Auto-Scalable & Extensible
- Easy to Deploy
- Cost efficient
- Secure & Governed

Foundational Data Lakehouse & Analytics Platform **without** having to manage any infrastructure!

Our Offering

2 Use cases
delivered

Deploy a Modern Data Lakehouse & Analytics foundation MVP on Microsoft Fabric in

10 Weeks

Utilizing up to

15 data sets

Overview

2
Use Cases

- 2 priority use cases identified and mutually agreed upon that deliver high business value but have low complexity. Defined by business and BI-analysts through workshops & assessments
- Produce business outcomes that drive decision making and or drive cost savings
- These use cases cannot be achieved using existing systems and processes or lack better delivery SLA's

15
Data Sets

- Establish data pipelines from up to 15 data sets around the identified use cases
- Setup re-usable, metadata driven framework with ability to scale to future use cases and data sets
- Data available for consumption and to power use cases/data driven decision-making in a Secure manner

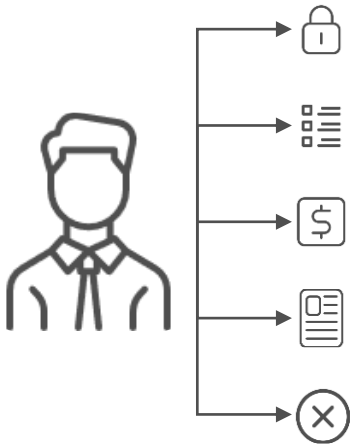
50
Working

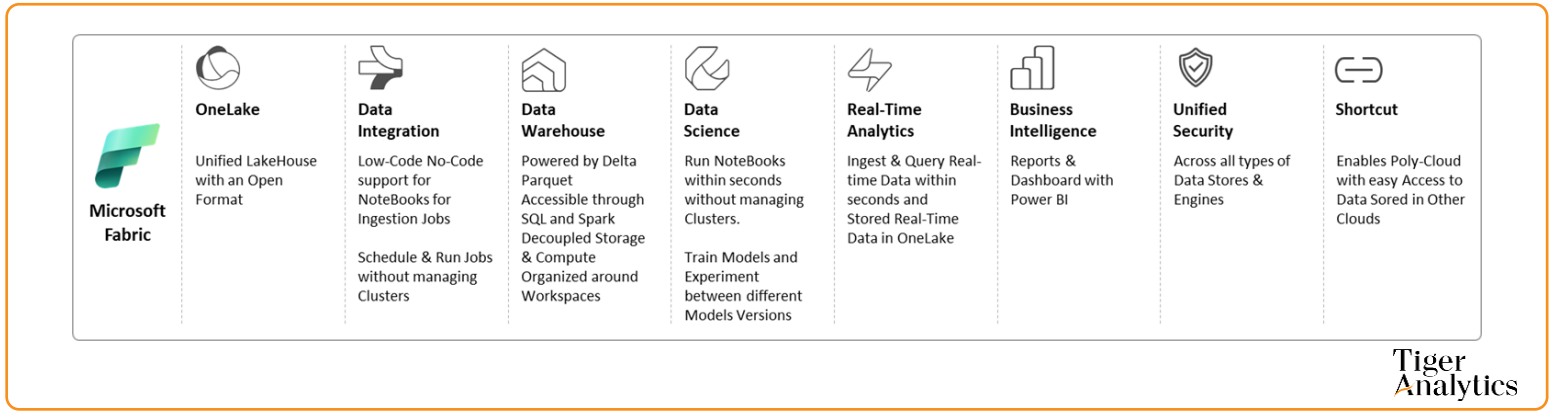
- Required business insights delivered for 2 use cases
- Foundational medallion Data Lakehouse – ready to use and future-ready for implementing use cases at scale
- 2 weeks of Discovery, 6 weeks for Implementation and 2 weeks for UAT (in the same MVP environment)

10
Member

- Proj. Manager - 1
- BA/Functional QA - 1
- Senior Arch – 1
- Senior DE - 1
- DE - 3
- Senior Power BI Dev. - 3

Value Addition | Our Offering





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Tiger's MS Fabric CoE team brings expertise	Know-how to Implement best fit MS Fabric options as per need	**Bring MS Fabric best practices for building a modern data lakehouse**	Have re-usable Ingestion and Transformation Frameworks	**Will continue to evolve the Modern Data Platform post MVP.**	Tiger team brings experience on MS Fabric Batch & Streaming options	**Tiger has specialist teams for all 3 (DE, DS & DA)**	Tiger makes MS Fabric adoption Simpler!

Key Benefits | Our Offering

Simplicity	Time & Effort	Scalable & Optimized	Unified & Open Standards	Business Value
Less complex. Just simple	Reduced manual effort	Auto-scalable	Centralized security & monitoring	Faster time to market
One Lake accessible in win-explorer	Instant provisioning	Auto optimized + auto integrated	Based on open standards	Future-ready & re-usable platform
No install. Just Internet & Web browser needed.	No infra to manage	Optimal use of cloud infrastructure	Delta-Parquet open standard storage	Integrates with existing Azure components

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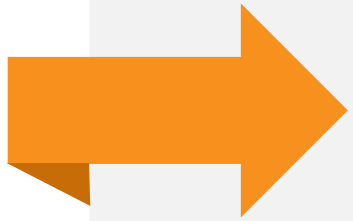
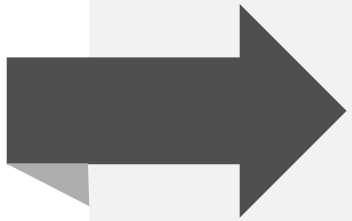
Where can this be Used



SMC (Greenfield Implementation)

- Data Foundation
- Organization with leaner Prod support
- Self Service enablement

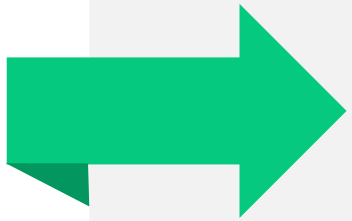
- Reusable platform - scale to future needs
- Data Democratization
- Simple and Cost-effective solution



Enterprise (Existing Azure Platform)

- Simplify complexities in existing platform
- Reduce Time to market
- No infra to manage
- Existing team can be re-purposed

- Improved agility
- Optimal Resource utilization
- Self Service enablement



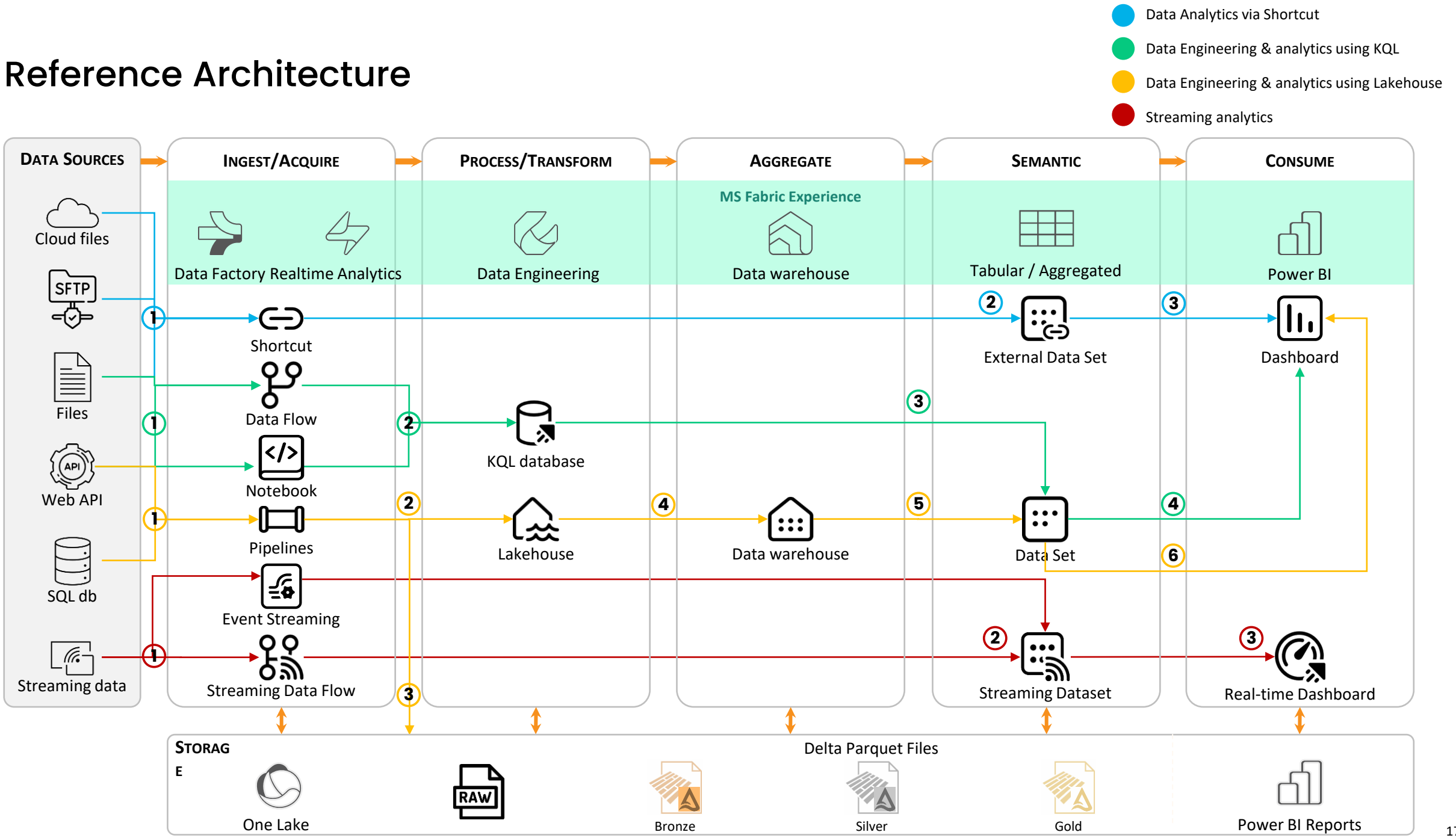
On-prem (Migration) – upcoming

- Move on-prem data using Data Gateway
- Migration toolkit is work in progress.

03

Use Case Implementation

Reference Architecture



Reusable Components Made Available in Our Offering

Architecture Blueprints
Architecture blueprints available for different use cases

Pipelines & Data Ingestion f/w
Framework for ingesting data from multiple sources.

Data Quality f/w
Reusable light and metadata driven framework to implement Data Quality checks.

Audit Log Monitoring
Functionality that ingests audit log information into metadata tables to augment auditing and troubleshooting.

Frameworks for Transformations
Reusable transformation f/w & blueprints using different Microsoft Fabric Experience tool sets.

Our PoV
Our Point of view on the available features and functionalities on Microsoft Fabric with workarounds where required.

Demo-able Use Case
A demoable use case solution from a Banking domain including pipelines, data quality, transformations and aggregations with Power BI dashboards.

Our knowledge & experience
Our knowledge and experience on having worked on several Data Engineering engagements can be leveraged.

Demo

Risk Management Solution for Banking Segment

Objective

Implement a robust risk management solution tailored for banking sector, to provide 360° coverage of banking fraud, credit default and liquidity risks.

Key Challenges addressed

- Analyzing the trend & pattern of fraudulent transaction w.r.t originating country.
- Analyzing liquidity risks in relation to operational expense and credit lines.
- Understanding spread of credit risk across key dimensions: business segments, customer demographics etc.

Dataset Considered

- Fraud analytics Data
- Customer Details
- General Ledger Data
- Other Master data
- Firewall network logs
- Account statement data

Business Value

Credit Risk Mgmt.
Better credit risk management w.r.t Credit to Repayment ratio.

Risk Mitigation
Advance risk Identification & mitigation to minimize impact on business operations and stability

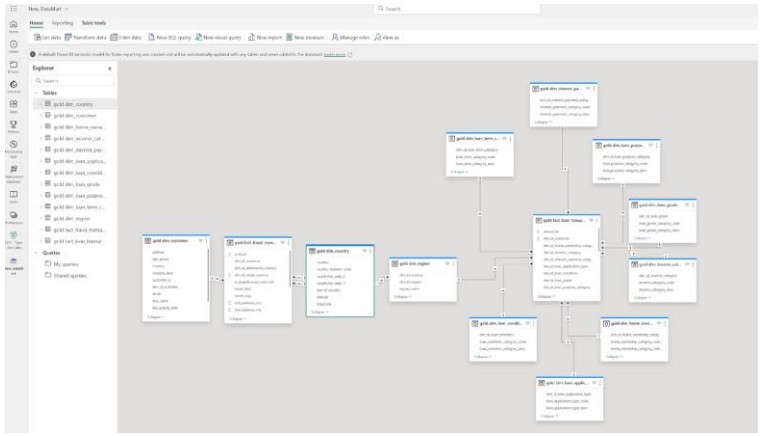
Forecast Liquidity
Discovery of data trends & to make timely forecasts to cover liquidity risks

Compliance
Compliance with industry regulations and standards.

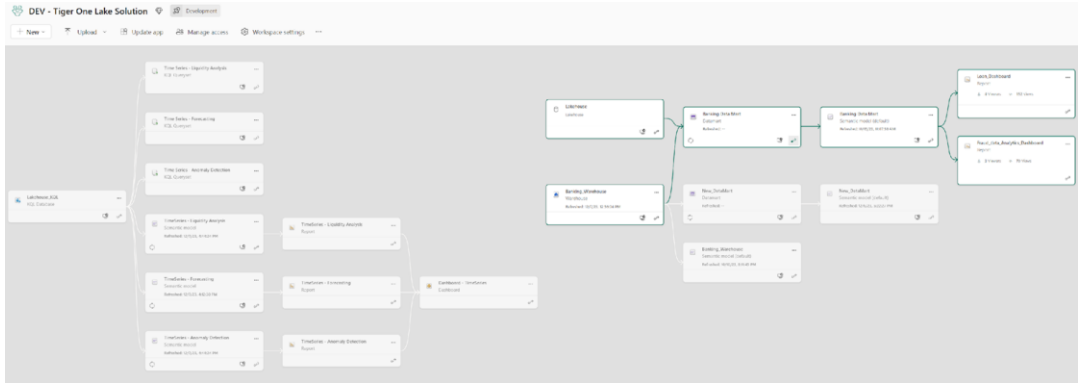
Access Governance
Enabling data democratization & a culture of '*responsibility & accountability*' by governing access to risk related information

Microsoft Fabric Features used in Our Offering (sample screen shots)

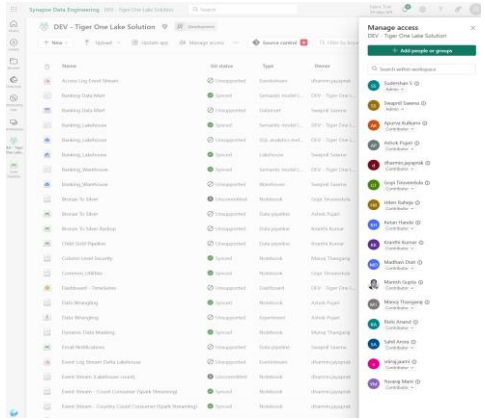
Data Modeling made easy



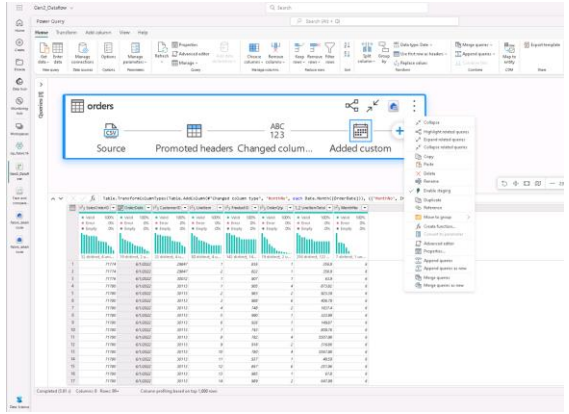
Object Lineage simplified



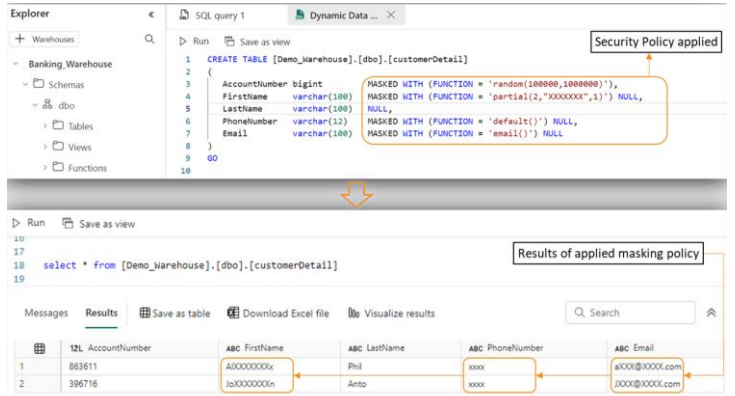
User/Group Access made easy



Data Transformation made easy



Data Security made easy



Microsoft Fabric Features Used in Our Offering

Monitoring

- Monitoring of pipelines, dataflows and notebooks through central **Monitoring Hub**
- Data action alerts generated through **Data Activator**
- Pipeline email alerts through **Outlook activity in Data Factory**

Real time integration

- Real time web traffic data ingestion with **Event Stream**
- **Spark streaming** used for time window aggregation

Time Travel

- **Time Travel** in Delta lake feature is helpful for performing data rollback for any load failure scenarios
- Lakehouse tables: Can be restored as of timestamp
- Warehouse tables: Can be restored using **clone tables** as of a particular version

Data Integration

- Usage of **Lakehouse Shortcuts** to make remote data accessible
- Medallion Arch implemented through layers in Fabric **Lakehouse & Warehouse**

AI Based code generation

- Using Smart AI heuristics **Dataflow Gen2** gives capability to generate extraction code with provided data patterns
- **Unstructured** text data in MT940 messages extracted in table format using Dataflow Gen2

Microsoft Fabric Features Used in Our Offering (Cont'd)

Time series analysis

- KQL Databases provide the features to create time series on GL data for seasonality analysis
- In-built models help in forecasting and anomaly detection

Data Privacy

- Sensitive Customer data has been protected using **Row-level** and Column-level security in **Warehouse**
- **Dynamic data masking** applied to obfuscate sensitive data

Data Discovery & Lineage

- Data assets such as Lakehouse, PowerBI dataset generated have been endorsed and made searchable
- Lineage helps provide visibility on dependencies between pipeline, notebooks and Lakehouse
- Granular data lineage and data catalog can be further realized with Purview integration

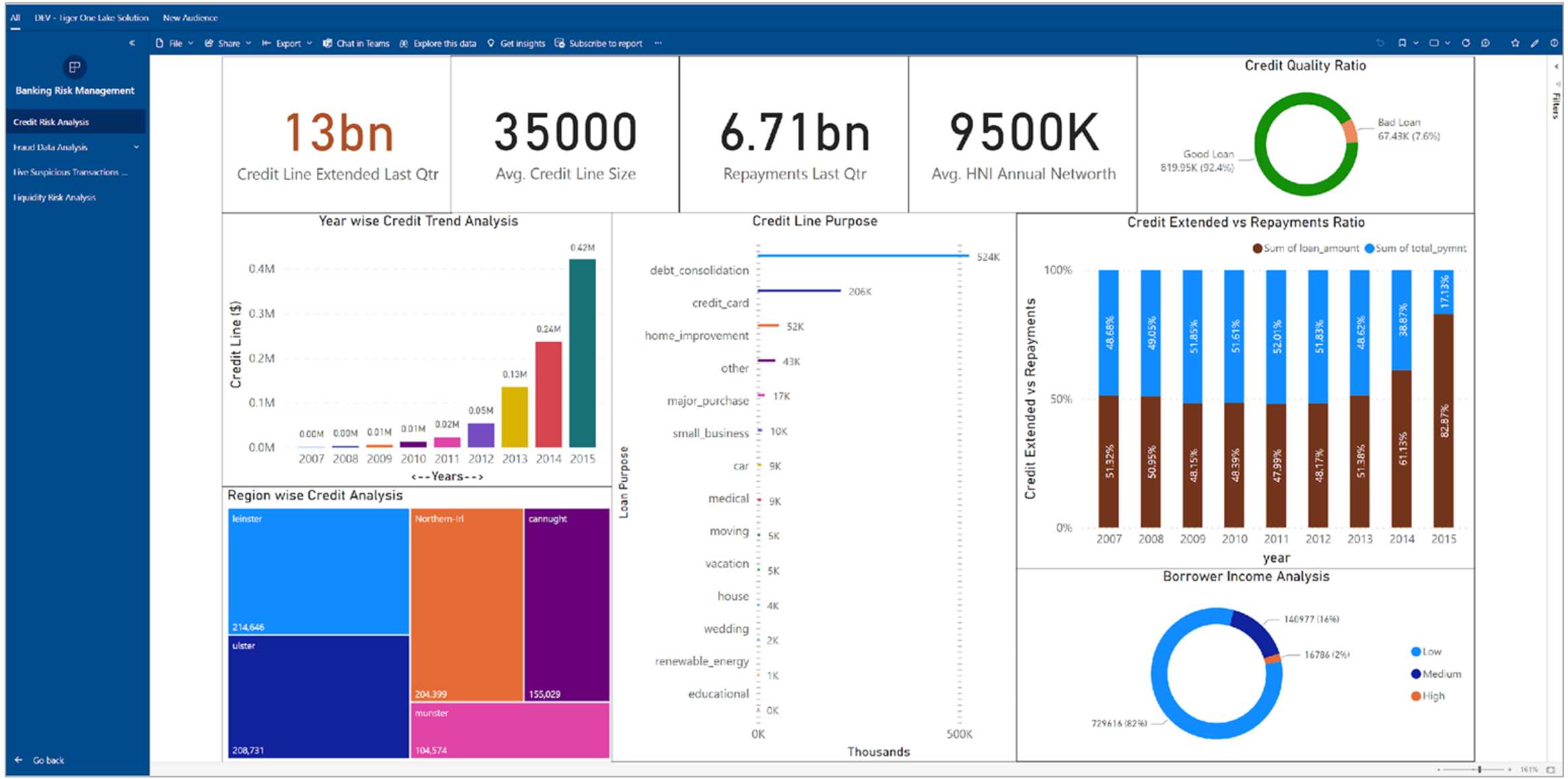
Cost Observability

- Microsoft Fabric Capacity Metrics App built as a PowerBI app can be installed to track capacity utilization
- Capacity Unit (CU) % utilization can be tracked across different Fabric SKU capacities, workspaces, items and users
- OneLake Storage costs can be similarly tracked too

Semantic Link

- With help of **Semantic Link** feature, we can do dependency analysis between columns in a dataset
- This has been utilized while identifying DQ rules and their applicability as well as sensitive data identification

Demo Use case | Sample Reports



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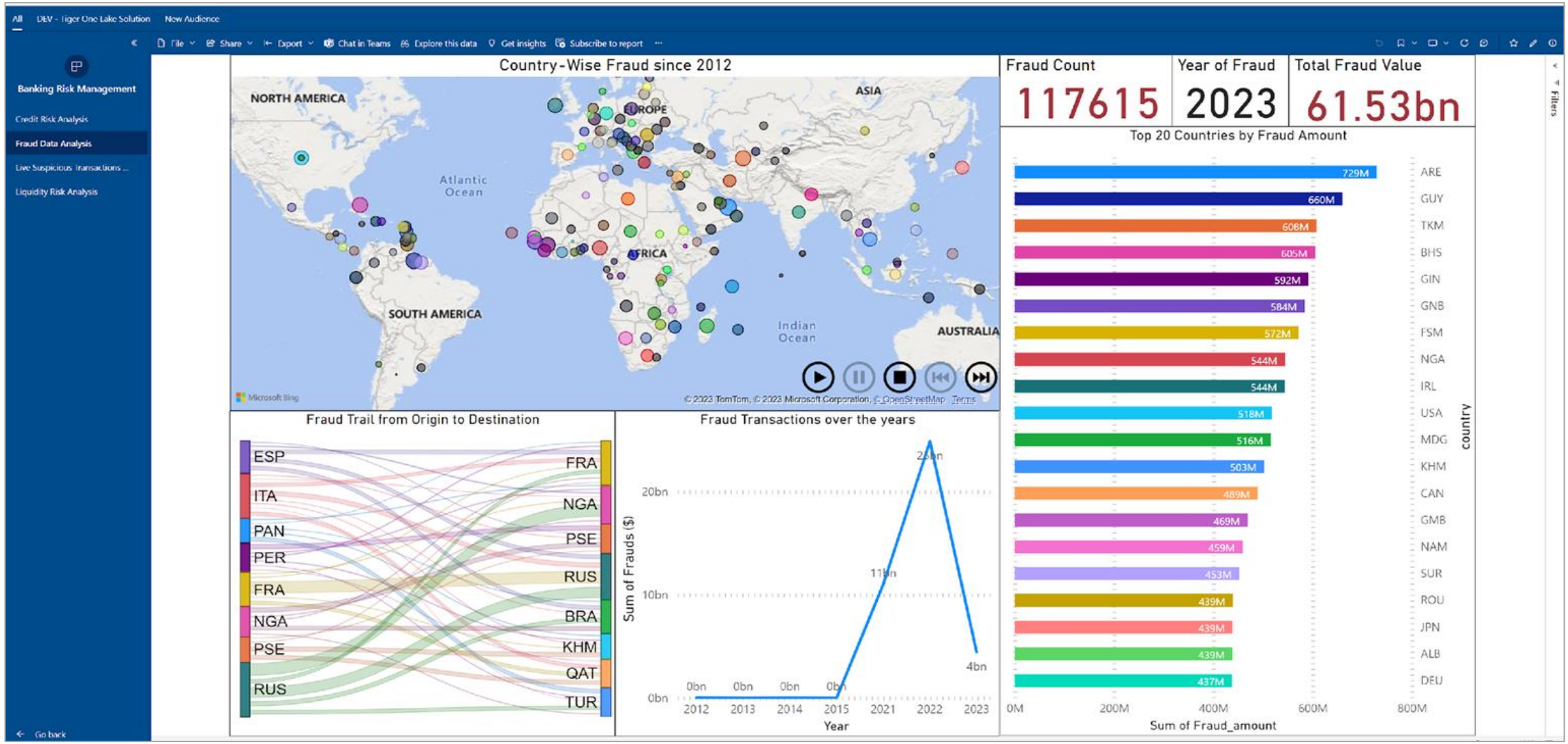
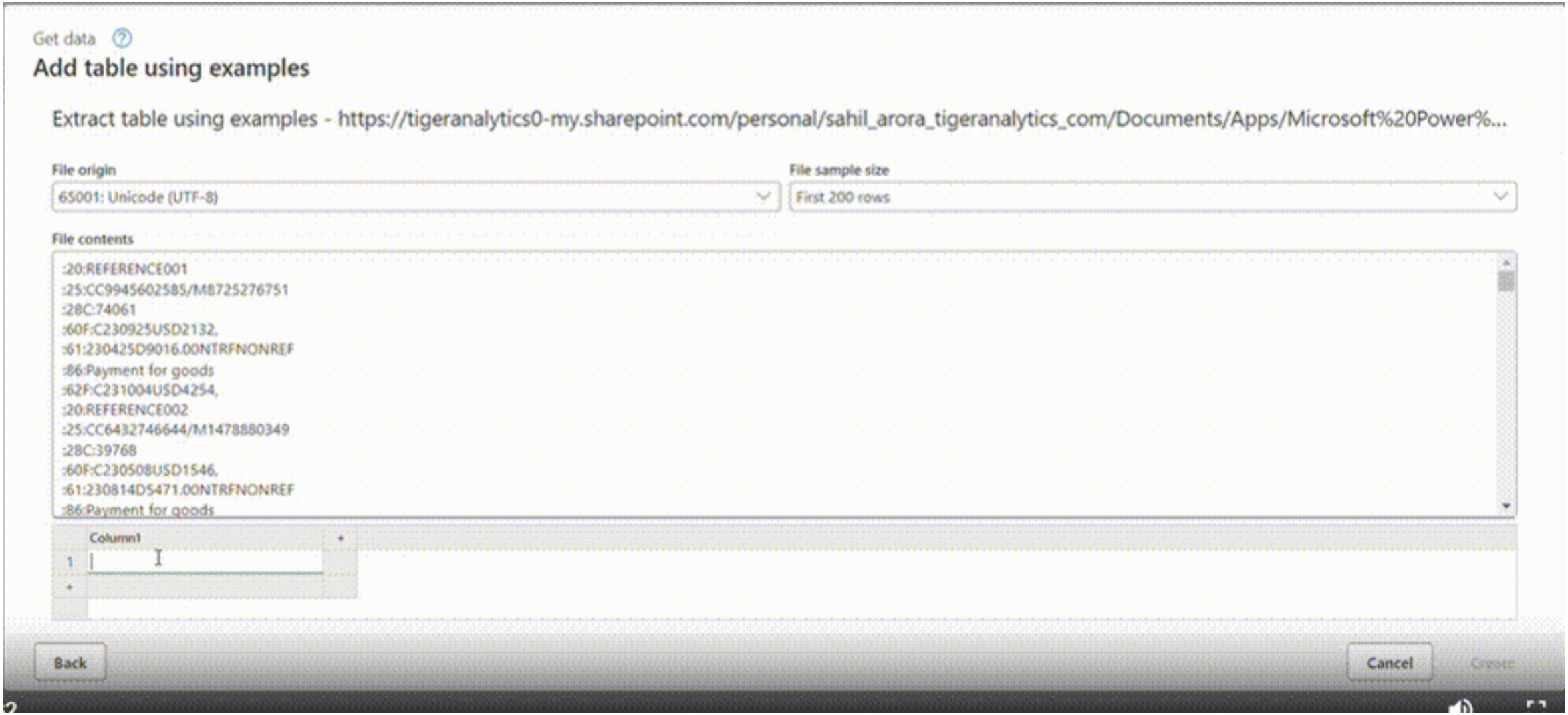


Microsoft Fabric | AI based Code Generation

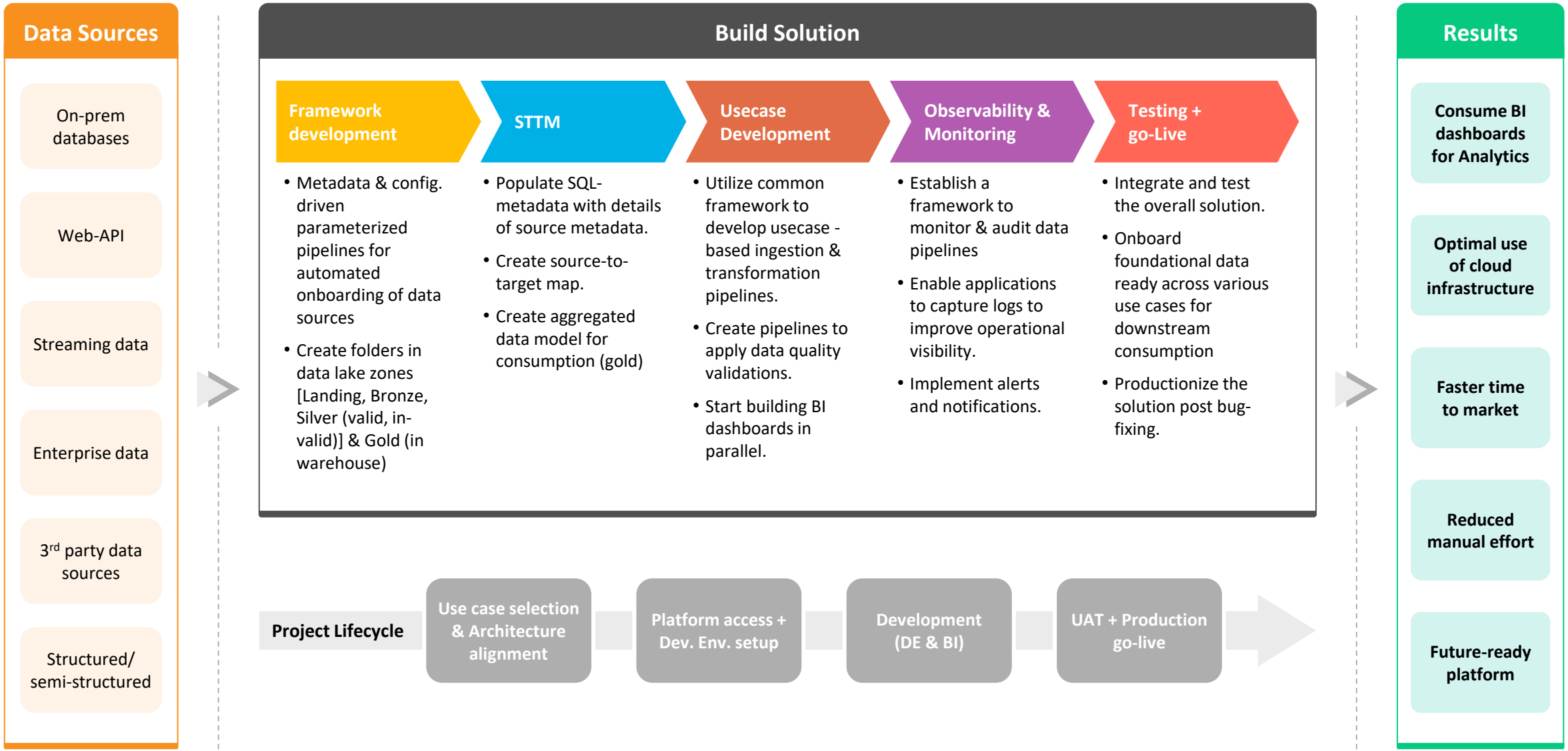
Code Generation made easy



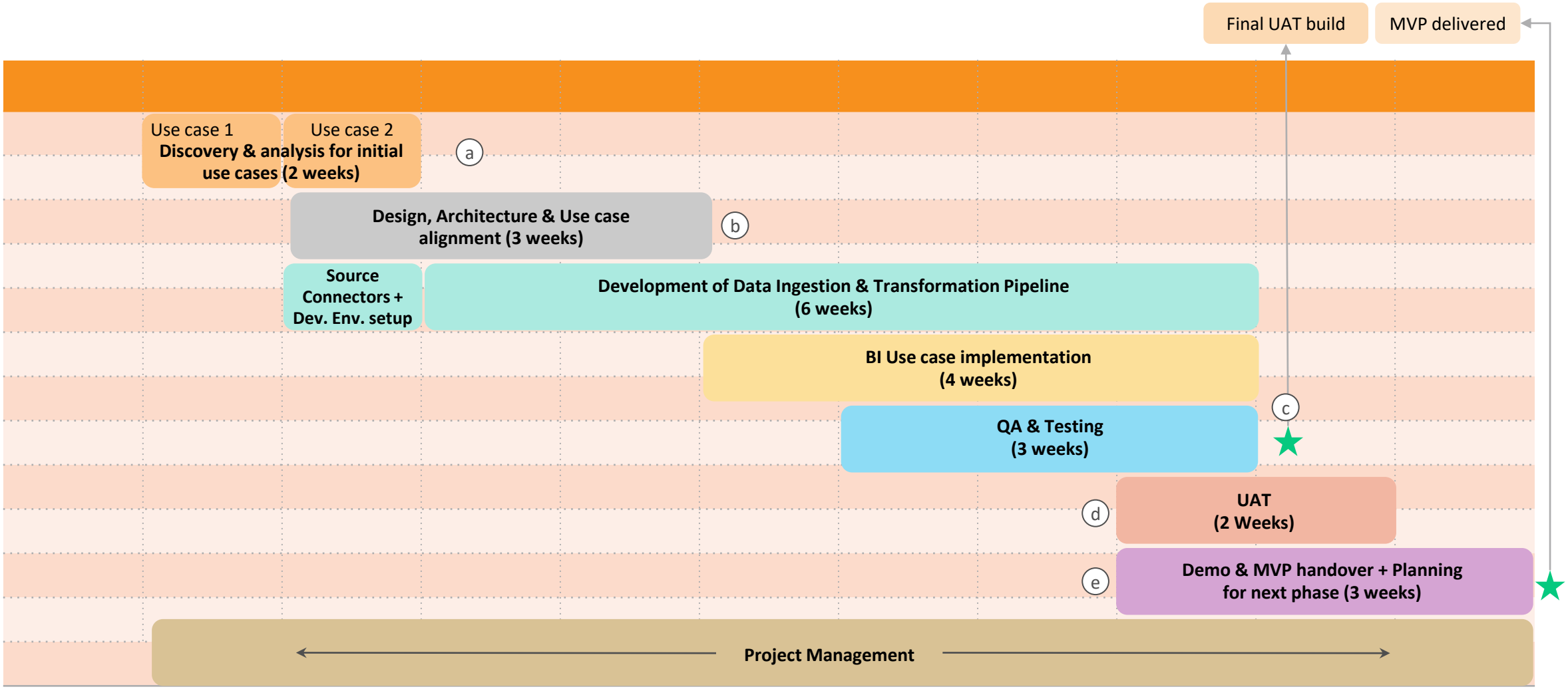
04

Approach and Timelines

Solution Approach



50 days (10 Weeks) | Timelines & Key Phases



(a) Use case Requirement & Analysis | (b) High Level Architecture | (c) Code, Pipelines, Test cases, Power BI Reports | (d) Run book & documentation | (e) PowerPoint Deck covering the complete MVP

05

Scope, Deliverables and Assumptions

Scope

Use cases

- The use cases would be discussed, finalized and detailed out during the initial 2 weeks
- Details of the use case would include source and entities required for the use cases, relevant business transformation requirements and wireframes of the reports with mapping of the entities required to generate the report
- The use cases being considered would be high impact in terms of business value but would be relatively mid-low in complexity
- ML use cases would not be covered in these

Foundational Platform

- A foundational data platform based on medallion data Lakehouse architecture would be implemented
- The Landing Zone, Bronze Zone and Silver Zone shall be created, and these shall utilize the Lakehouse feature of MS Fabric
- The Gold layer shall be created using the Synapse Data Warehouse feature of MS Fabric
- Other MS Fabric experience tool sets such as Synapse Data Engineering (Spark notebook), Data Factory (orchestration) and PowerBI (BI & Analytics) shall also be utilized in building the foundational data platform

Data & Storage

- Up to 15 (tables from sources) would be considered as part of the scope
- Only structured data shall be considered. Any unstructured data or Streaming data would not be in scope for building the foundational data platform
- The data shall be ingested in batch manner. Real-time or near real-time/ streaming data sets shall not be in scope for the foundational data platform
- All data shall be stored in One Lake. Medallion Data LakeHouse would store data in Delta Parquet format
- Landing Zone shall be used for acquiring data from source in native format, Bronze Zone for cleansing and standardizing the data and Silver Zone for business data transformations
- Other operational zones or folders such as In-Valid, Valid, Archive etc. as required shall also be created within One Lake

Transformations

- Tiger team shall develop spark transformations for data load, and these shall utilize Synapse Spark clusters within MS Fabric
- Jupyter notebooks shall be utilized to run the code and the same shall be committed to Git associated to the MS Fabric workspace
- Python, Spark-SQL or T-SQL code would be used for implementing the Ingestion & Transformations code
- The data pipelines shall be based on the concept of ELT (Extract-Load Transform) and for loading data into the Bronze Zone, two types of merge strategies would be supported – Truncate & Reload and Append-Insert only

Scope

Monitoring & Ops

- All monitoring and operations of all the components of MS Fabric shall be through the Monitoring Hub station available for MS Fabric
- As of now, Monitoring Hub is available for Power BI, Data Factory, Data Engineering and Data Science

SLA for latency

- There are no hard SLAs for any ingestion load to run within a fixed duration, or User query response time
- The overall performance of the various operations shall depend on the MS Fabric capacity selected
- Tiger shall develop the pipelines by following the available best practices from Microsoft for MS Fabric

Data Ingestion

- Tiger shall develop batch data ingestion pipelines using the Data Factory feature set available in MS Fabric
- These pipelines shall copy data from source to Landing Zone and further into the medallion data lake zones (stored in One Lake)
- Once the ingestion pipelines are completed, data shall be available either for further processing or shall be available for consumption

Metadata framework

- Tiger team shall develop frameworks for ingestion, transformations and data quality in a metadata driven manner
- This shall ensure that future data sources can be ingested into the platform in an easy and reusable manner thereby enabling efficiency
- The metadata for the same shall be stored in a separate Azure SQL database provisioned separately
- Python as programming language would be considered for building any Data engineering workload
- Great Expectations (open-source python) library would be considered for Data Quality & Testing workloads

Scope

Governance

- Implementing custom governance capabilities such as auto data catalog, catalog classification rules etc. is out of scope
- Only the out of box data lineage feature provided by MS Fabric shall be available. This is a built-in feature
- Certain features such as data governance, compliance, sensitive data protection are supported through external service integration viz. Purview, Azure Information Protection etc. These are considered out of scope

Security

- Custom data security such as row or column level access policies are considered out of scope
- Only authenticated users shall be able to access the data in One Lake, data lake, data warehouse or Power BI dashboards
- Security model setup viz. 360 AD group setup, RBAC permission assignment is considered out of scope

Git & on-prem Integration

- Git integration is supported in limited mode and enabled only through Azure DevOps. Cost and provisioning for DevOps is extra and would be charged separately
- Presently, MS Fabric doesn't support direct on-prem private connectivity. The setup and configuration of the same is considered out of scope
- Any such feature which is not fully supported by Microsoft shall be considered out of scope

BI Dashboard

- Tiger shall develop upto 6 Dashboards (having 4-5 visualizations each) for the 2 identified use cases based on the 15 ingested datasets
- The dashboards shall not implement any live (streaming) datasets or reports
- Complex or ML based dashboards are considered out of scope
- Tiger team shall develop the Power BI dashboards after discussions and mutual agreements with the client

Modeling/ Cleansing

- Data modeling (Star schema, data vault, normalization etc.) is considered out of scope
- Any excessive data cleansing or deduplication work is considered out of scope for the initial use cases

Fabric SKU

- MS Fabric SKU and workspace provisioning requirements must be discussed in advance. Tenant setup, capacity purchase and cost associated is not covered in scope
- Any MS Fabric Cost Monitoring will be done by Customer's IT team

Note: After the Use case finalization, Tiger reserves the right to update modify the timelines, effort and cost associated to implementing the same shall be discussed with the clients

Deliverables in 50 days

Tiger shall provide the following 5 key deliverables as part of the overall implementation:

Use case & Requirement Analysis document

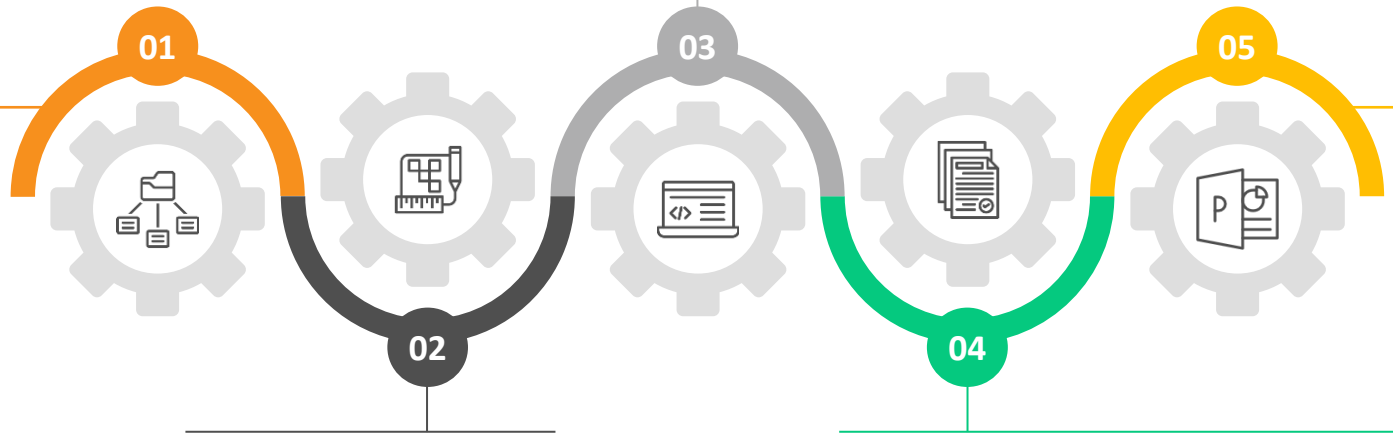
Document detailing out the 3 prioritized use cases and requirements in detail which would also be the scope for implementation

All code, artifacts and Power BI reports

All the code/templates/test cases etc. developed as part of implementation of the use cases including pipelines, frameworks, metadata, Power BI reports

PowerPoint Deck

Supporting deck for final use case demonstrations



High Level Architecture

High level architecture diagram with relevant Microsoft Fabric Experience and featured tools.

Run books & documentation

Application run-book with key configurations/parameters, procedure to onboard new datasets (in future) and troubleshoot commonly faced issues while development

Client Responsibilities

01

MS Fabric license and capacity on MS Azure

The client would have acquired Microsoft Fabric licenses and capacity to support all 3 environments (Dev, QA and Prod). Tiger team shall be provided with required access on Microsoft Fabric in the development environment to perform the required Use case development

02

Source Data

Data sources will be made accessible within the 1st week of the start of the engagement in order to perform necessary exploratory analysis.

03

Source System Owners

Source system owners shall be available for discussions and provide data or make it accessible for the Tiger team to access and ingest in the required schedule, frequency and format.

04

Power BI licenses

The client shall provide Tiger team the right licenses/resources to develop the required Power BI reports and dashboards.

05

Client Project Manager

The client shall designate a Project Manager to act as the point person for all matters for the Tiger Team. The client Project manager shall also be the authorized signatory for all the deliverables.

06

Stakeholders

Relevant client IT and Business stakeholders and point-of-contacts shall be identified and communicated to the Tiger team. These stakeholders should make themselves available for discussions and working sessions for which meeting invites shall be sent out at least 1 business day prior

07

Policies and Existing Documentation

The client shall make available to Tiger team relevant policies, architecture documents and other details of its existing/current system

Key Assumptions

1. MS Fabric licenses and access to use the relevant workspaces for development shall be made available before the project starts. All the licensing and capacity cost on MS Fabric shall be borne by the client.

2. Timelines outlined are contingent on availability and active involvement of client's resources in the project in the due course and as requested by the project team staff.

3. Data to be ingested will not require any significant data cleansing by Tiger. Overall objective of the initial phase would be to "enable" the right foundation for bringing in the required datasets to power the identified use cases.

4. Client will provide licenses for Power BI etc. – for Tiger to perform the necessary development activities.

5. Client will provide all necessary documentation (like Data Dictionary) that Tiger needs to be aware of to perform the required tasks at the start of the engagement.

6. No special data handling for GDPR compliance is assumed. Sensitive data will be masked, and all PII data shall be anonymized before it is made available in landing zone for the development team.

7. Any changes to scope may have impact on schedule, effort and cost. The same shall be discussed and agreed upon on mutual terms.

8. Customer's Point of Contact will ensure availability of their SMEs for review and sign-off.

9. QA & UAT will be done on the same environment.

06

Commercials and FAQs

Commercials

Indicative

- 5 Layered Foundational Architecture
  (Landing -> Bronze -> Silver -> Gold -> Reports)
- ELT -->Spark, Gold --> Relational Tables --> Consumption. No Real-time or Near Real Time processing
- 15 Source data table, 4-8 Gold Layer Tables. No Streaming Datasets.
- Transformations between the Silver to Gold layers are simple
- Reusable and metadata driven Frameworks for Ingestion, Transformations and Data Quality.
- Up to 6 Dashboards. No ML Use Case.
- Each dashboard has 4 to 5 sections/Charts

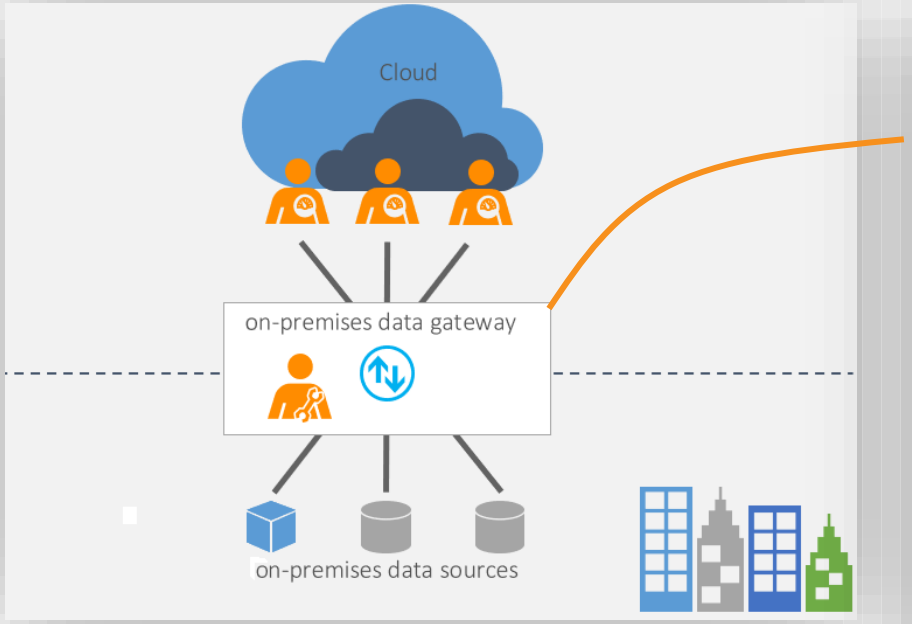
- Tenure: 2.5 months (10 Weeks)
- Est Effort: 8 person months
- Est Price: $45,000

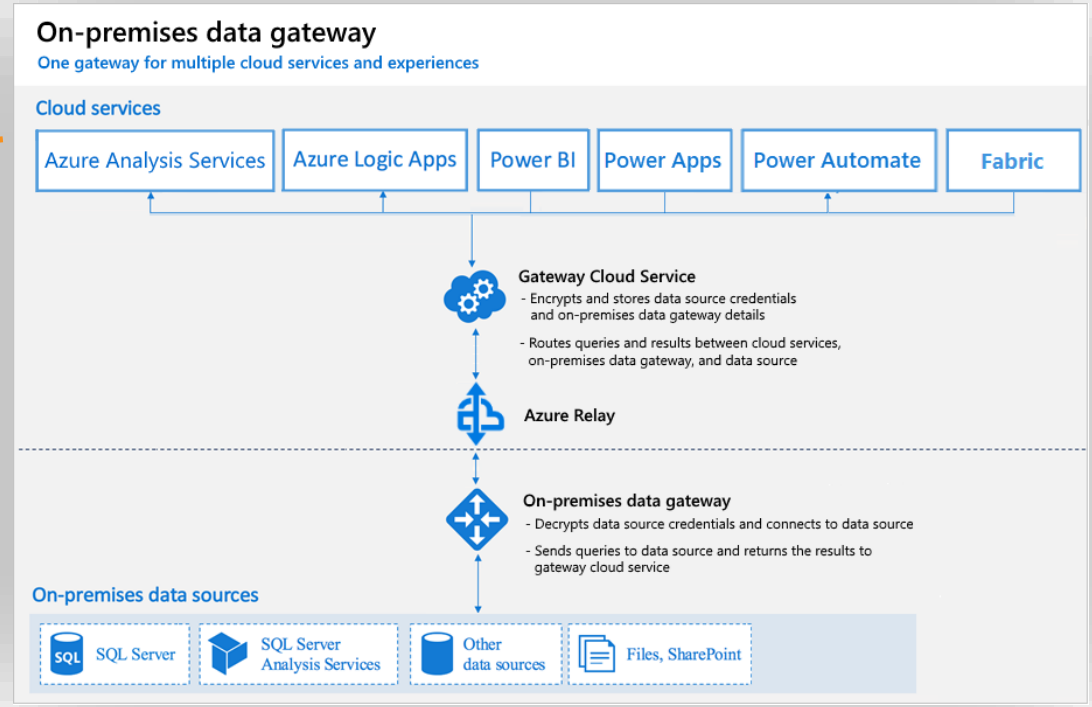
FAQ's

1	Can all existing Azure components and functionality be migrated and replace with MS Fabric?	No. It depends. Only few features and key Azure functionalities can be migrated to MS Fabric 'as-is'.
2	How is MS Fabric different from Azure platform?	MS Fabric is a SaaS offering providing integrated data and analytics capabilities without overheads of platform management. The traditional Azure platform is a cloud platform offering several PaaS, IaaS services and tools which need to be setup, managed, and administered which are additional overheads.
3	How is MS Fabric different from Azure Databricks?	In short MS Fabric is a SaaS offering while Azure Databricks is a PaaS offering. Azure Databricks has available for a few years while MS Fabric is very new and continues to evolve.
4	How is MS Fabric different from Azure Synapse Analytics warehouse?	MS Fabric offers all the functionalities including Data factory pipelines, Spark pools (serverless), serverless SQL analysis (Lakehouse), and real time ingestion (KQL/Data explorer pools). Synapse dedicated SQL pool has been rearchitected inside MS Fabric as a serverless Warehouse with storage on One-Lake in Delta-parquet format (open source).
5	What happens to existing Azure Synapse after MS Fabric rollout?	Azure Synapse will continue to exist separately as a PaaS solution offering.
6	Is there a migration path available for migration from Synapse to MS Fabric?	Microsoft has created some migration toolkits/knowledge artifacts around this. However, a comprehensive packaged migration solution is not available as of today
7	How can I migrate existing data from on-prem databases/other cloud databases into Fabric?	Some in-built mechanisms such as Mirroring (pvt. preview), data factory pipelines, AZcopy (ADLS storage data migration) can be adopted for this.
8	What use cases are best suited for MS Fabric?	Almost all the modern data platform architectural patterns such as batch data integration/orchestration, Data quality, Medallion Lakehouse, Data mesh, Streaming/Change data capture use cases, Time series analysis, data replication patterns are supported.
9	What is Tiger Analytics' point of view on MS Fabric?	We have a detailed PoV which can be shared on request
10	What are the key advantages of using MS Fabric?	SaaS solution, easy to setup and work with, no infrastructure setup or management, single open storage format repository, serverless, auto-scalable and many more. (refer to slide 36 in Appendix)
11	Can MS Fabric be fully integrated with Git?	MS Fabric is now generally available. While most of the features can be integrated with Git, there are some features like pipelines etc. which are not fully supported currently. This is being worked on by Microsoft and shall be made available soon.
12	How are costs managed and tracked with MS Fabric?	Costs are tracked through usage of Fabric capacity allocated to a workspace. A granular level view of capacity usage can be obtained through MS Cost Management app as well as through MS Fabric Capacity metrics dashboard.
13	Does MS Fabric need a license? Can exiting Power BI license be used?	Yes, a license is needed. Existing PowerBI license can be used if they are equivalent to Premium tier. Specific Fabric capacity tier can be bought separately as well.
14	Have more questions?	Feel free to reach out and we shall be happy to help!

Secure On Prem Connectivity to Microsoft Fabric

On prem connectivity can be secured through On-Prem Data Gateways.
Support for Secure user access to Fabric is planned.





- Secure Private connectivity
- Based on Azure Relay
- Requires Limited public port access
- Separate on-prem gateway machine
- Upcoming: Private Link support for Fabric

Tiger Analytics

About Us

Tiger Analytics is pioneering what AI and analytics can do to solve some of the toughest problems faced by organizations globally. We develop bespoke solutions powered by data and technology for several Fortune 500 companies. We have offices in multiple cities across the US, UK, India, and Singapore, and a substantial remote global workforce.

We have received multiple awards ranging from being recognized as a Leader by Forrester Research to being ranked among the fastest-growing tech companies by Inc. and Financial Times. We consistently feature in prestigious ‘Best Analytics Firms’ lists.

www.tigeranalytics.com