



Unlock more value from your data with Microsoft Fabric

Discovery Days – April 17th 2024

Learn & Connect

14:15 - 15:50 MS Fabric Intro and Demo

15:50 - 16:00 Break and Networking

16:00 - 16:50 Deep Dive

17:00 - 17:30 Drinks and Networking

How do you translate data into
your advantage?

Microsoft Analytics Portfolio



Data Factory



Synapse DW



Purview



Event Hub



Data Explorer



Azure AI



Power BI



Synapse Spark



Azure Databricks

Product Leadership

Data Integration



Analytics



Artificial Intell

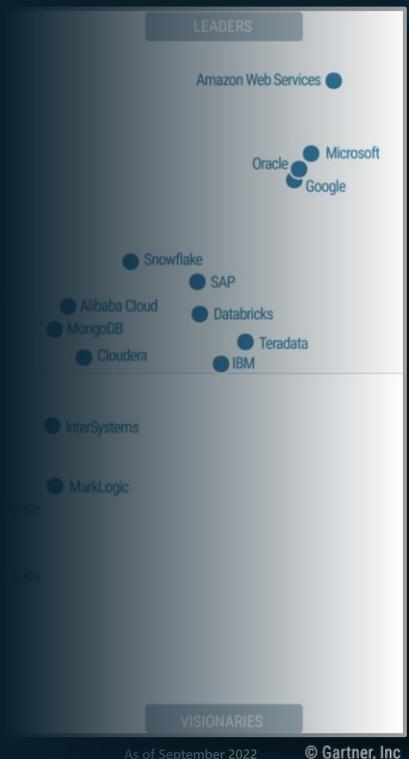


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Product Leadership

alytics

Artificial Intelligence



Business Intelligence

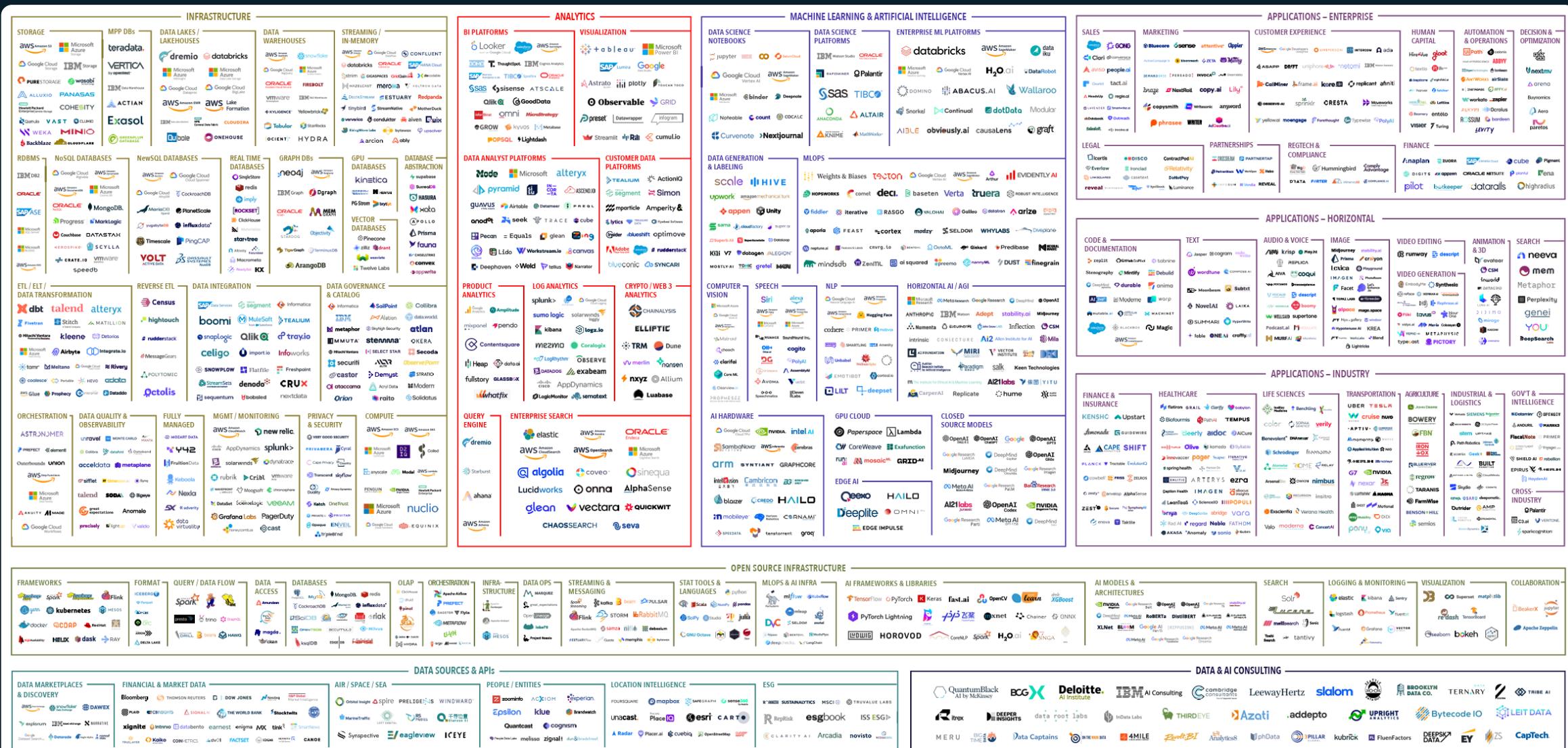


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AI is changing
the world

Data is the fuel that powers AI

The 2023 ML, AI, and Data Landscape



“

Unify,

I am the Chief Information Officer and don't
want to be the Chief Integration Officer.

Help me unleash AI in my data estate.”

Every CIO, Every Enterprise

Generally Available Nov 2023



Microsoft Fabric

Data analytics for the era of AI



Microsoft Fabric

The data platform for the era of AI

From

To

Multiple analytics services

» Unified stack

Disconnected data sources

» All the data in one place

Isolated application

» Entire estate

Gen AI bolt on

» Gen AI built in



Microsoft Fabric

Data analytics for the era of AI

Complete
Analytics
Platform

Lake Centric
and Open

Empower Every
Business User

AI
Powered



Microsoft Fabric

Data analytics for the era of AI

Complete Analytics Platform

Everything, unified

SaaS-ified

Secured and governed

Lake Centric and Open

OneLake

One copy

Open at every tier

Empower Every Business User

Familiar and intuitive

Built into Microsoft 365

Insight to action

AI Powered

Copilot accelerated

GPT on your data

AI-driven insights



The unified data platform for the era of AI



Data
Factory



Synapse Data
Engineering



Synapse Data
Science



Synapse Data
Warehousing



Synapse Real
Time Analytics



Power BI



Data
Activator



AI



OneLake



Purview

Unified
architecture

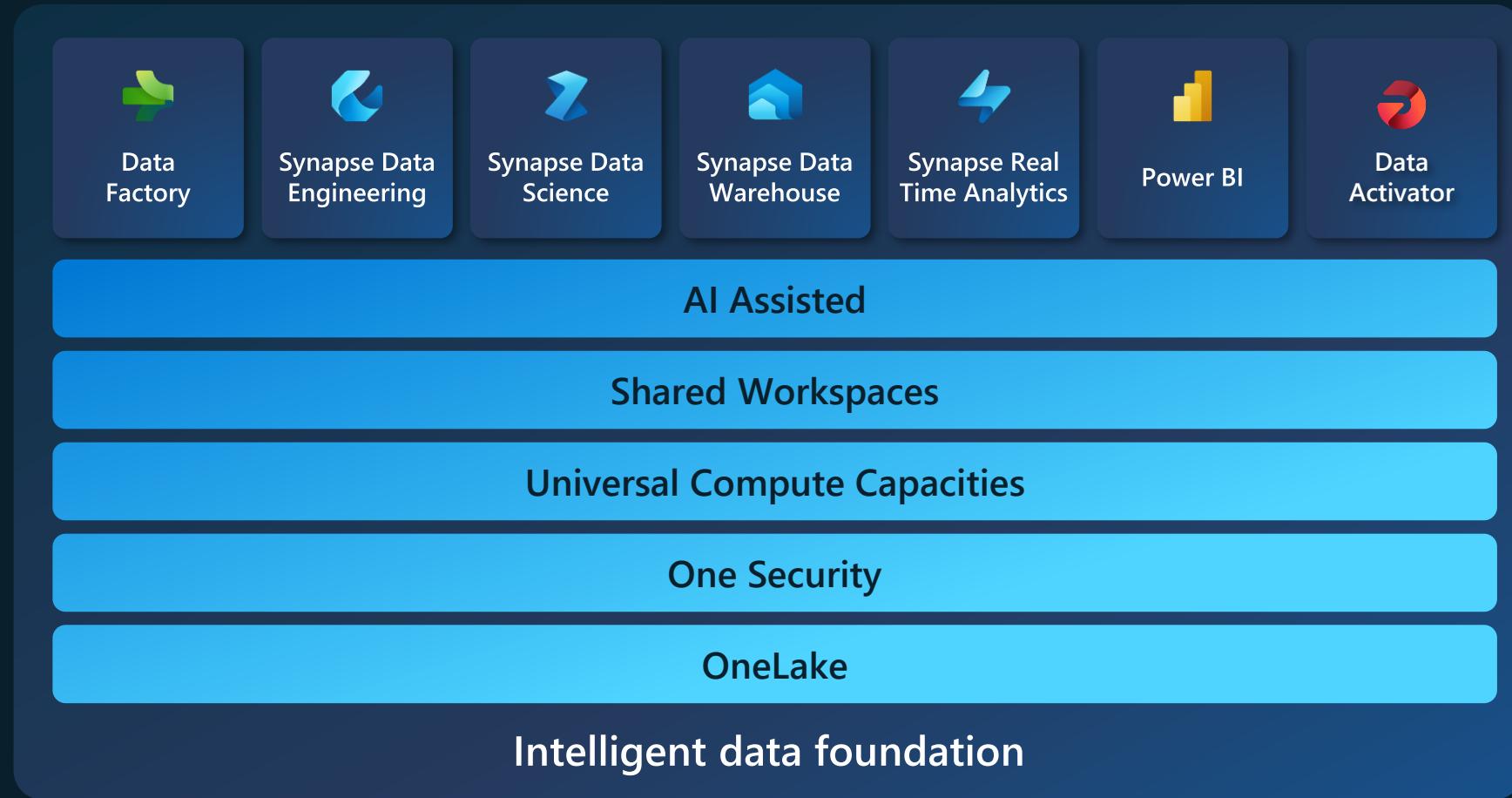
Unified
experience

Unified
governance

Unified
business model



Microsoft Fabric



Single...

- Onboarding and trials
- Sign-on
- Navigation model
- UX model
- Workspace organization
- Collaboration experience
- Data Lake
- Storage format
- Data copy for all engines
- Security model
- CI/CD
- Monitoring hub
- Data Hub
- Governance & compliance

SaaS

"It just works"

5x5

Frictionless onboarding

Instant provisioning

Quick results w/ Intuitive UX

**Success
by default**

Minimal knobs

Auto optimized

Auto integrated

**Centralized
administration**

Tenant-wide governance

Centralized
security management

Compliance built-in



Microsoft Fabric

Data analytics for the era of AI

Complete Analytics Platform

Everything, unified

SaaS-ified

Secured and governed

Lake Centric and Open

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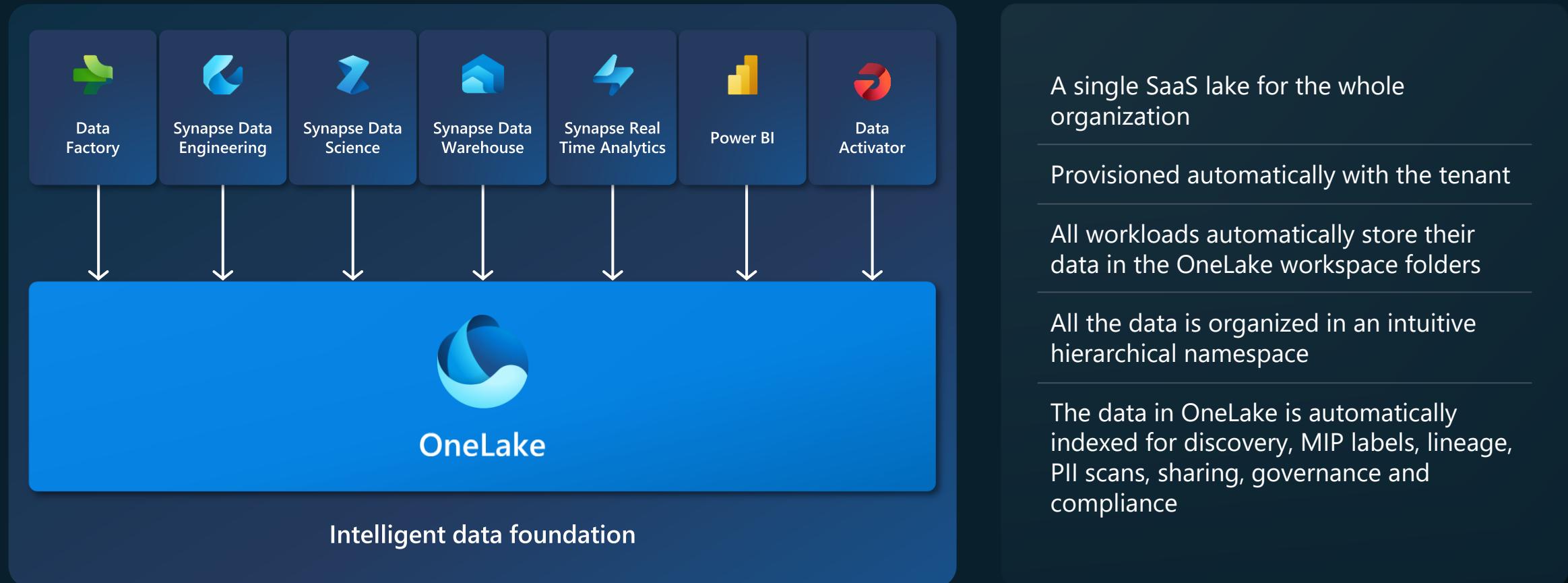
Copilot accelerated

GPT on your data

AI-driven insights

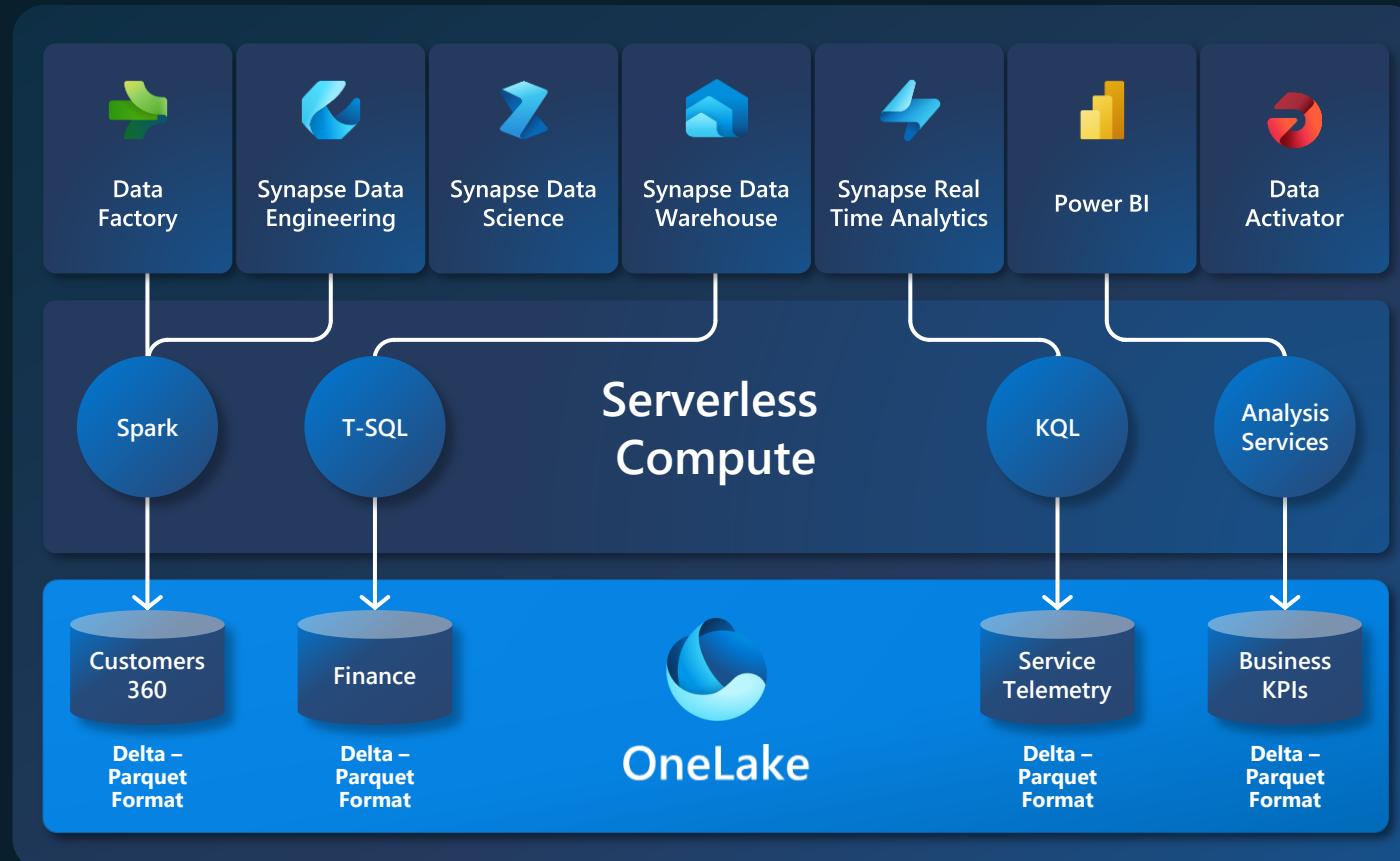
OneLake for all Data

“The OneDrive for Data”



One Copy for all computers

Real separation of compute and storage



All the compute engines store their data automatically in OneLake

The data is stored in a single common format

Delta – Parquet, an open standards format, is the storage format for all tabular data in Analytics vNext

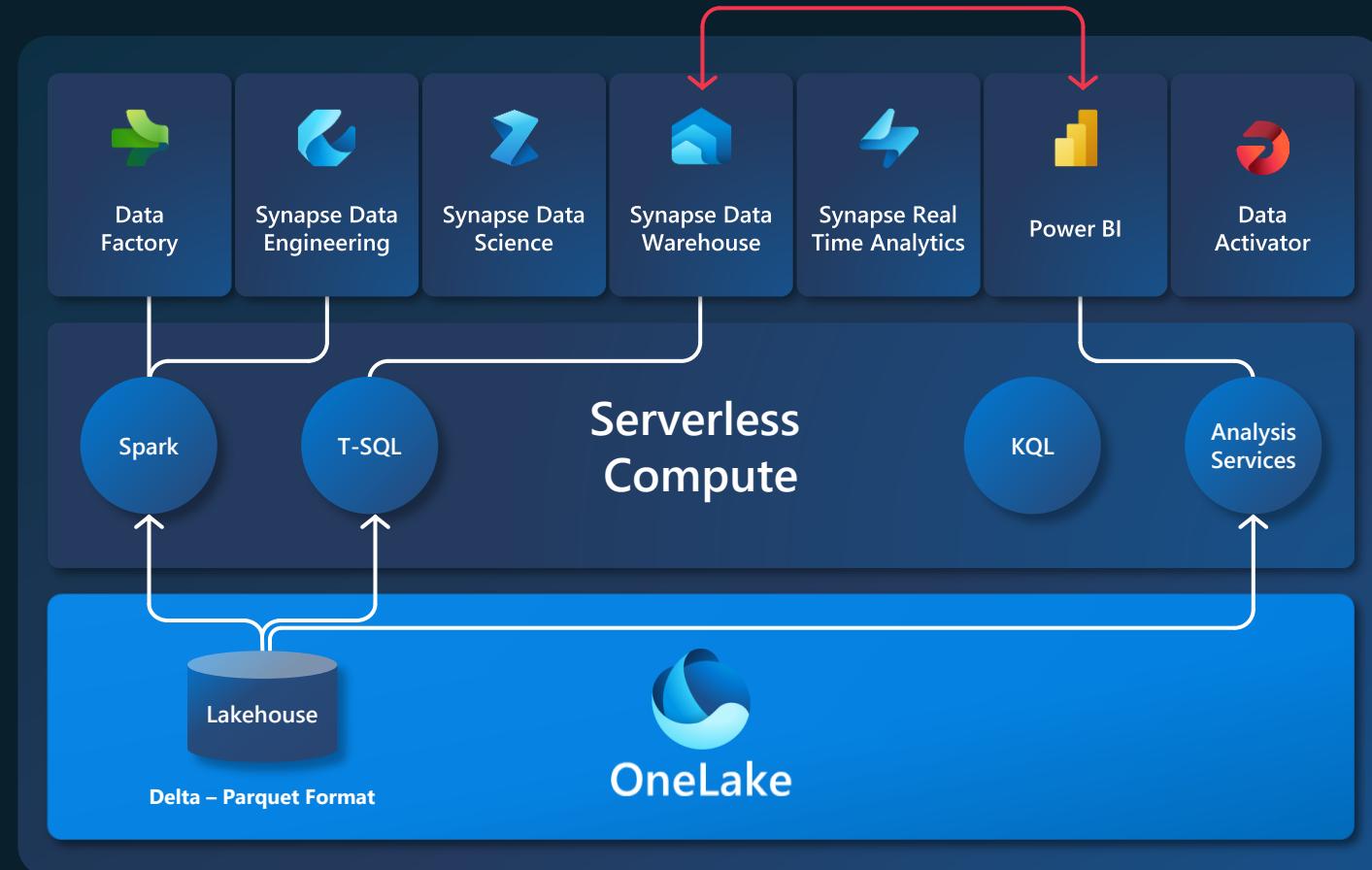
Once data is stored in the lake, it is directly accessible by all the engines without needing any import/export

All the compute engines have been fully optimized to work with Delta Parquet as their native format

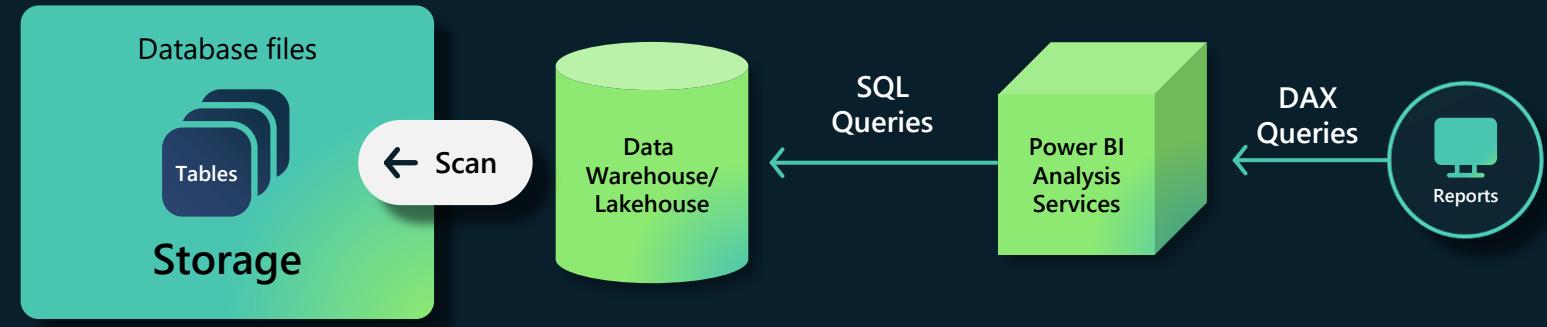
Shared universal security model is enforced across all the engines

One Copy for all computers

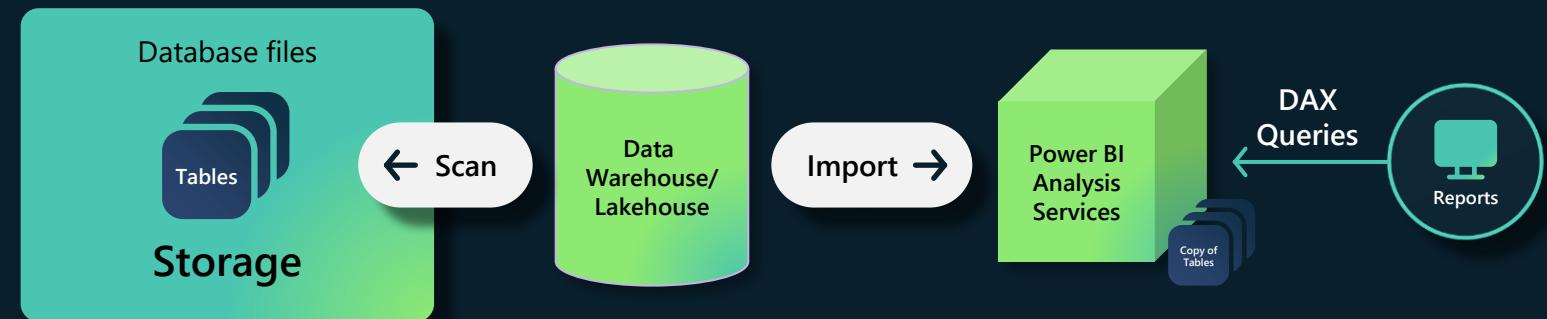
Using the Lakehouse



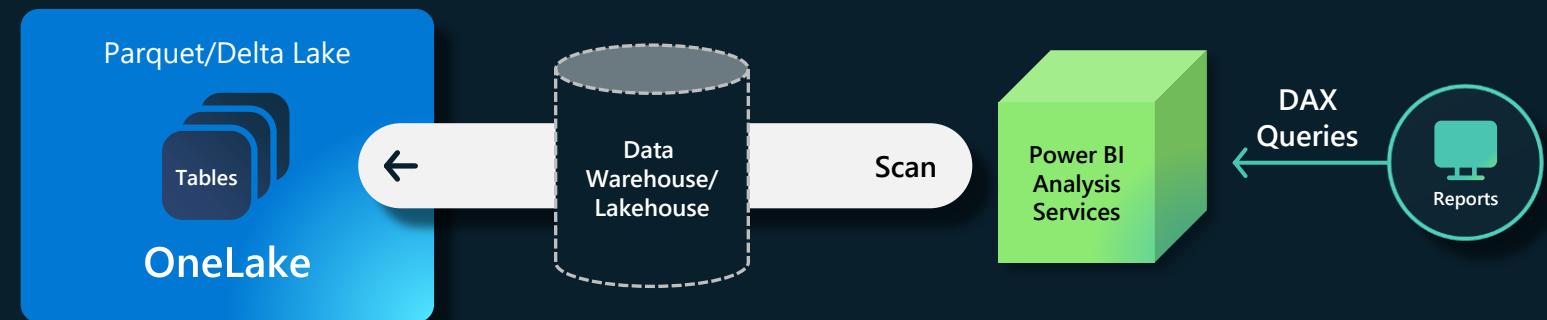
“Direct Query Mode”
Slow, but real time



“Import Mode”
Latent & duplicative but fast



“Direct Lake Mode”
Perfect!



Taking One Copy to the Next Level

Shortcuts



Sharing data in OneLake is as easy as sharing files in OneDrive, removing the needs for data duplication

With [shortcuts](#), data throughout OneLake can be composed together without any data movement

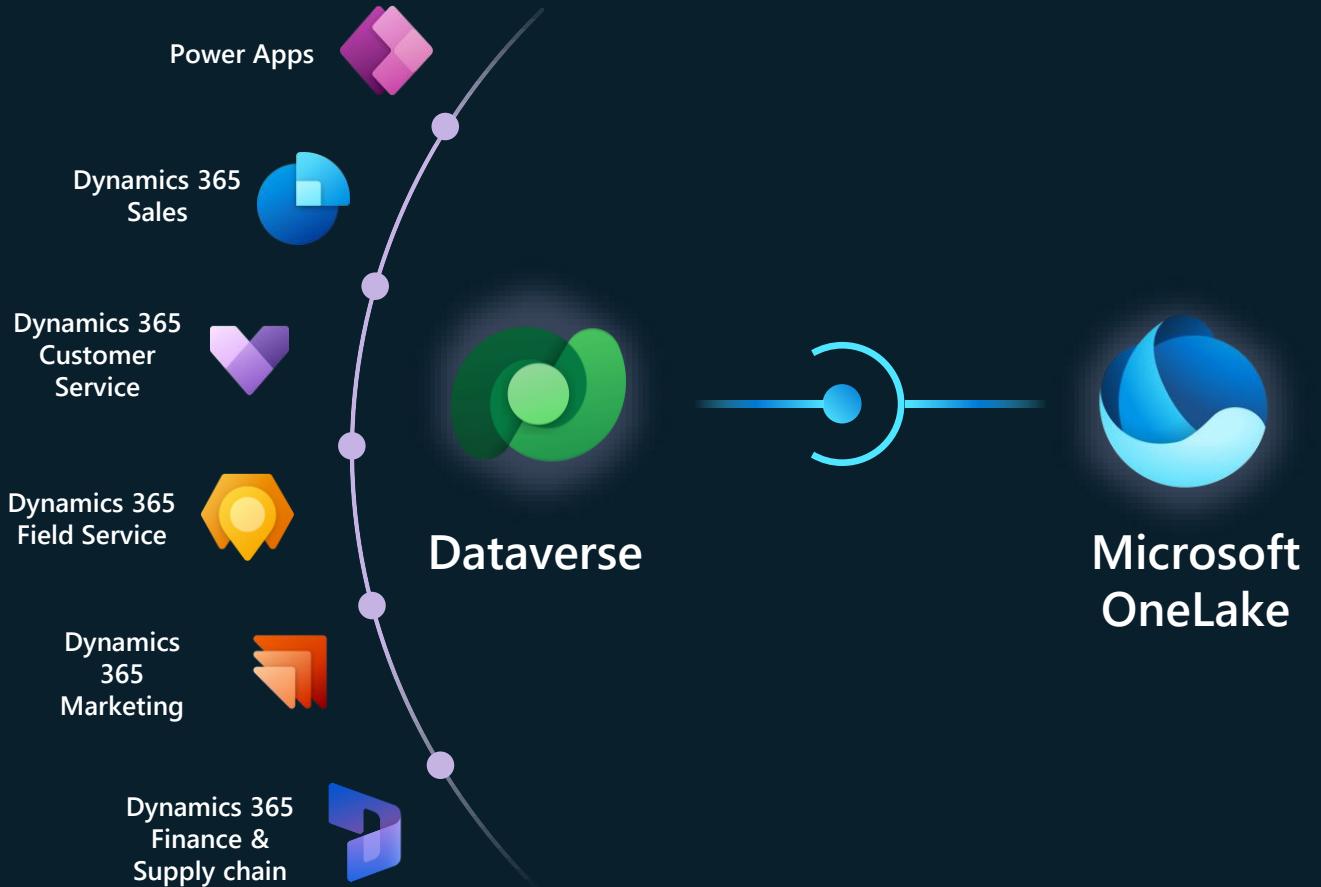
Shortcuts also allow instant linking of data already existing in Azure and in other clouds, without any data duplication and movement, making [OneLake](#) the first multi-cloud data lake

With support for industry standard APIs, OneLake data can be directly accessed by any application or service

Available now!

Shortcuts to Dataverse

Dynamics & Dataverse data
available in OneLake
immediately,
no ETL, no data copy



Public Preview



Mirroring



Mirroring

Public Preview

Seamlessly connect your **databases** and **data warehouses** to OneLake



Azure
Cosmos DB



Azure
SQL DB



Mongo
DB



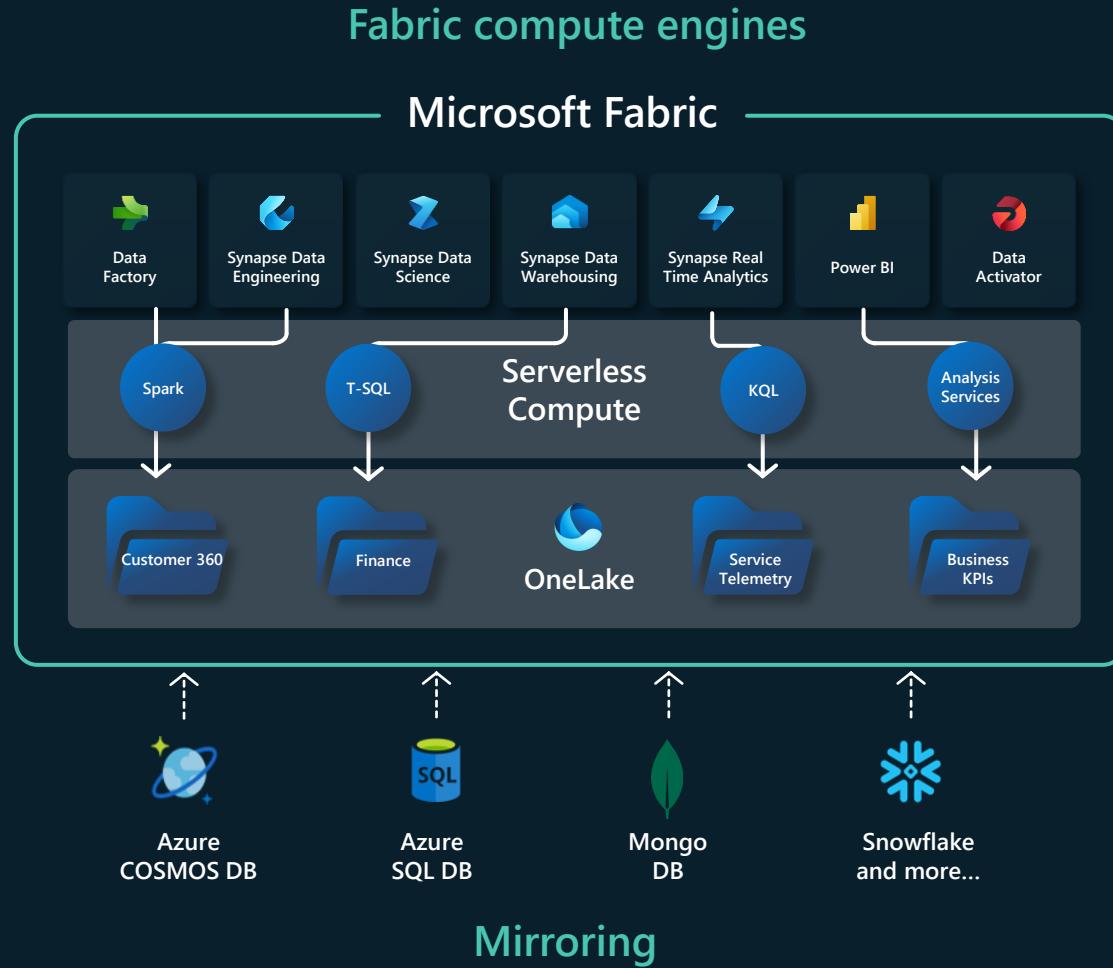
Snowflake

And More...

aka.ms/FabricMirroringPreview

Mirroring in Microsoft Fabric

Simplify near real-time analytics



Fabric Mirroring enables adding existing databases and data warehouses to Fabric **without any ETL**.

A full editing experience of the source database is available for the Mirrored database.

Data is replicated into OneLake in Delta format and kept up-to-date in near-real-time.

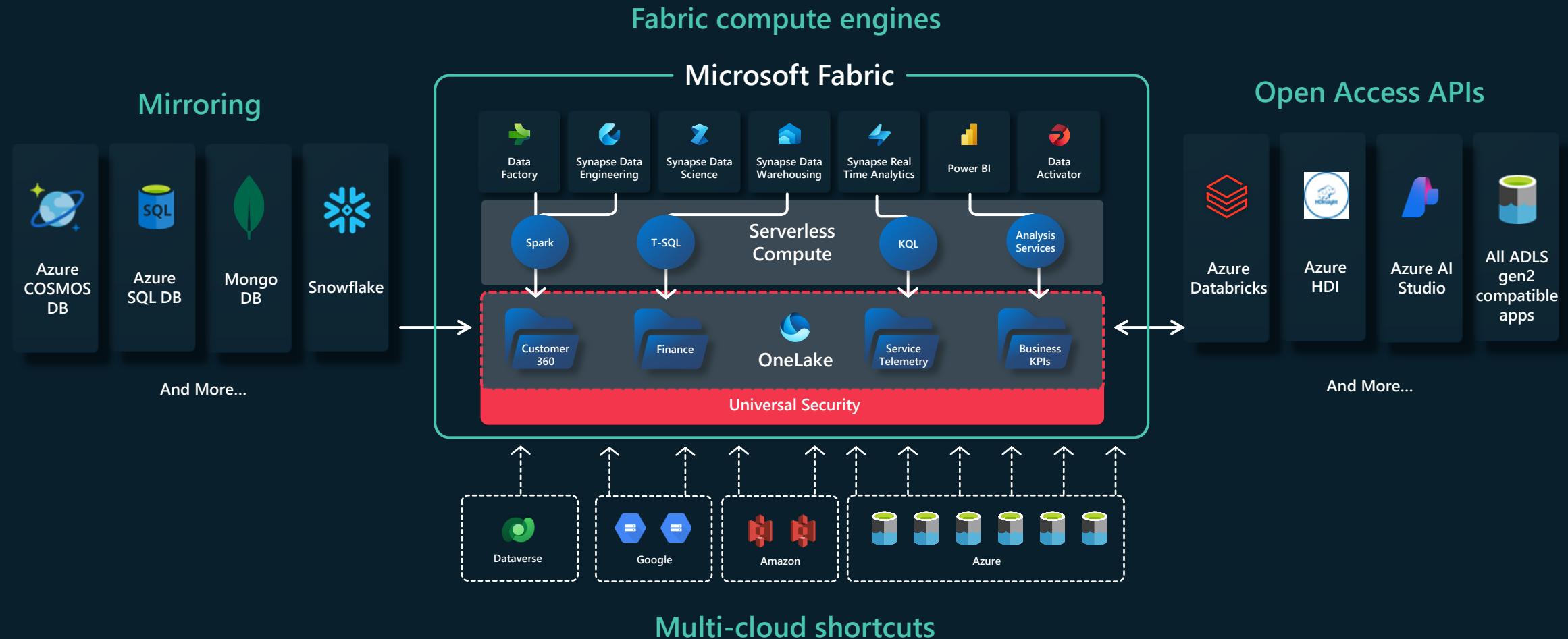
All the Fabric experiences instantly work with the OneLake replica.

Analysts and Data Scientists can work with **real-time data**.

The replica protects operational databases from analytical queries.

All roads lead to OneLake

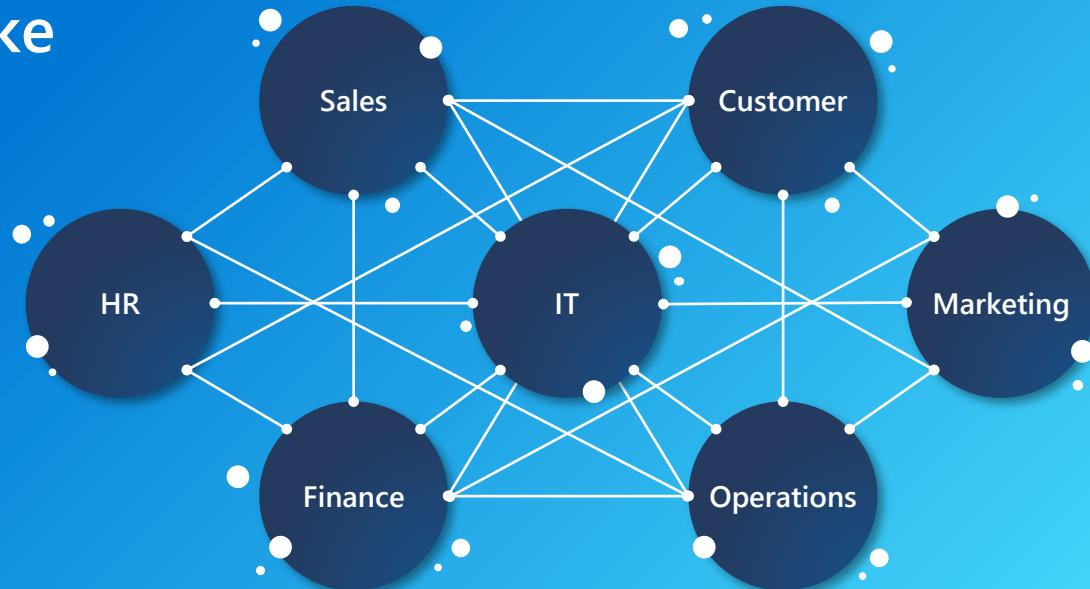
Creating Data Gravity in OneLake



OneLake for all domains

A true **hub & spoke** data **mesh** across organizational data domains.

OneLake



Workspaces and artifacts for different data domains, contribute to building the same data lake.

Without data movement, data from different domains can be analyzed, blended and transformed together.

Data is secured and governed in one place while remaining easily discoverable and accessible to all who should have access across the organization.

Data can be certified by domain experts to enabling trust for data which is discovered.



Microsoft Fabric

Data analytics for the era of AI

Complete Analytics Platform

Everything, unified

SaaS-ified

Secured and governed

Lake Centric and Open

OneLake

One copy

Open at every tier

Empower Every Business User

Familiar and intuitive

Built into Microsoft 365

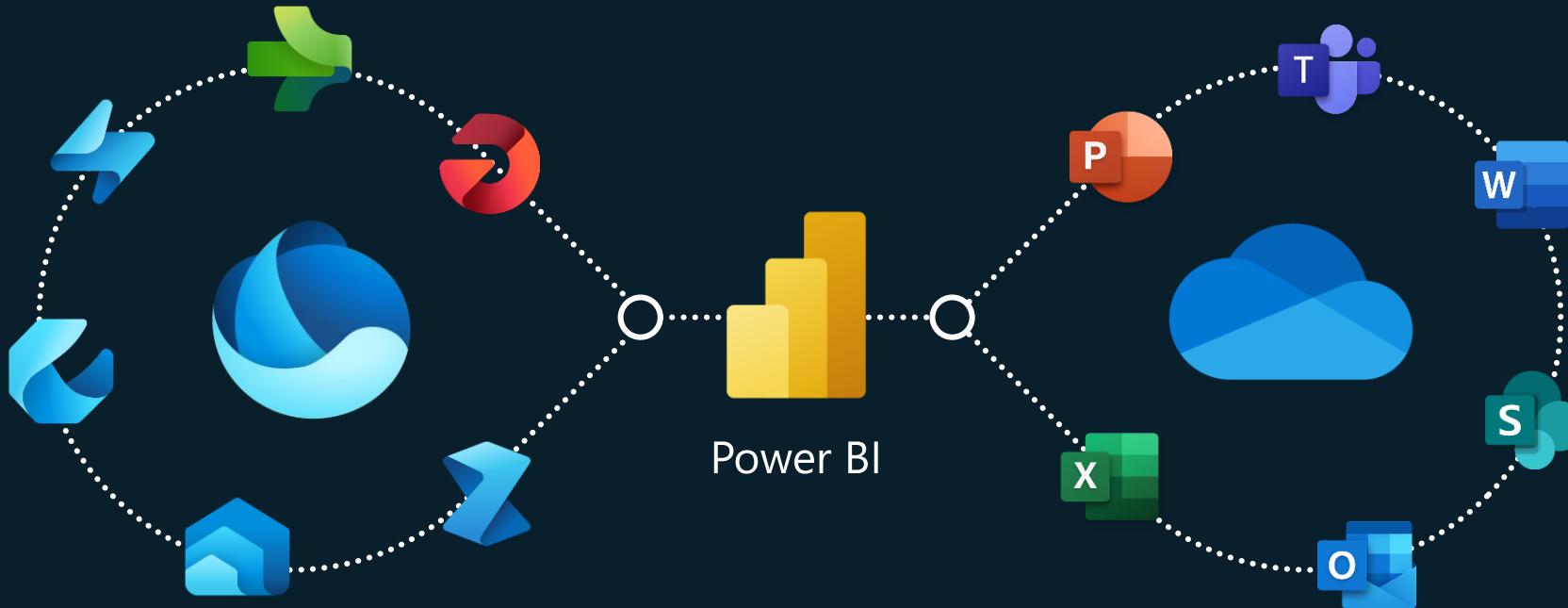
Insight to action

AI Powered

Copilot accelerated

GPT on your data

AI-driven insights



Unified Data Culture

Connecting insight to action



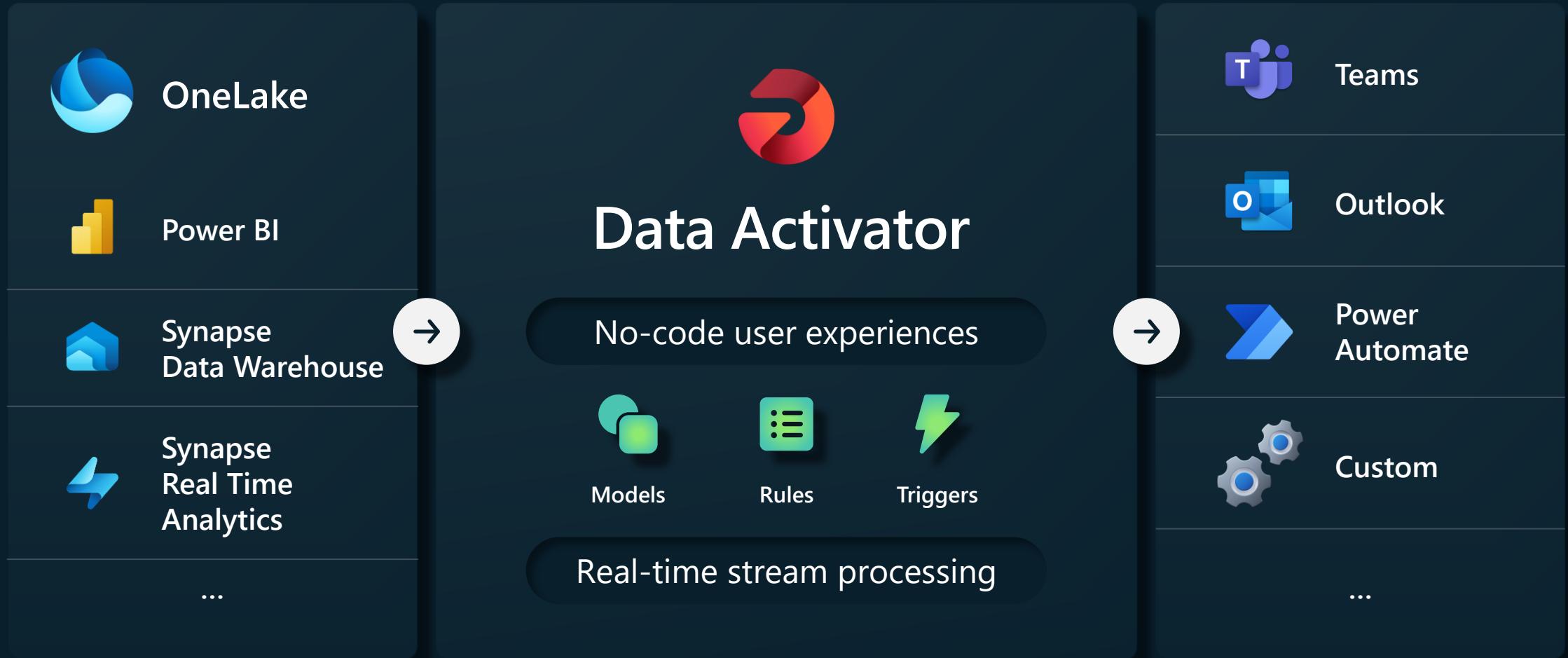
Most organizations bridge this gap today using manual detection or IT investment

Announcing



Data Activator

Introducing Data Activator





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Gen AI accelerates your data journey



Get your
data ready



Build predictive
models



Discover
Insights



Microsoft Fabric

Intelligent data foundation



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real Time
Analytics



Power BI



Data Activator



Powered by AI with Copilot in Microsoft Fabric



Single data foundation
OneLake



UNIFIED

SaaS product experience

Security and governance

Compute and storage

Business model

Copilot in Fabric

Unlock the full potential of your data



Supercharge Productivity

Let AI summarize actions for you, and optimize your time



Uplevel Skills

Be better at what you're good at and master what you've yet to learn



Discover Insights

Harness the power of AI so you never have to start from scratch



Generative AI on your data

Deliver custom generative AI experiences for your data



Enable **custom Q&A** on your data in **Fabric**



Define custom business semantics and grounding **unique to your organization**

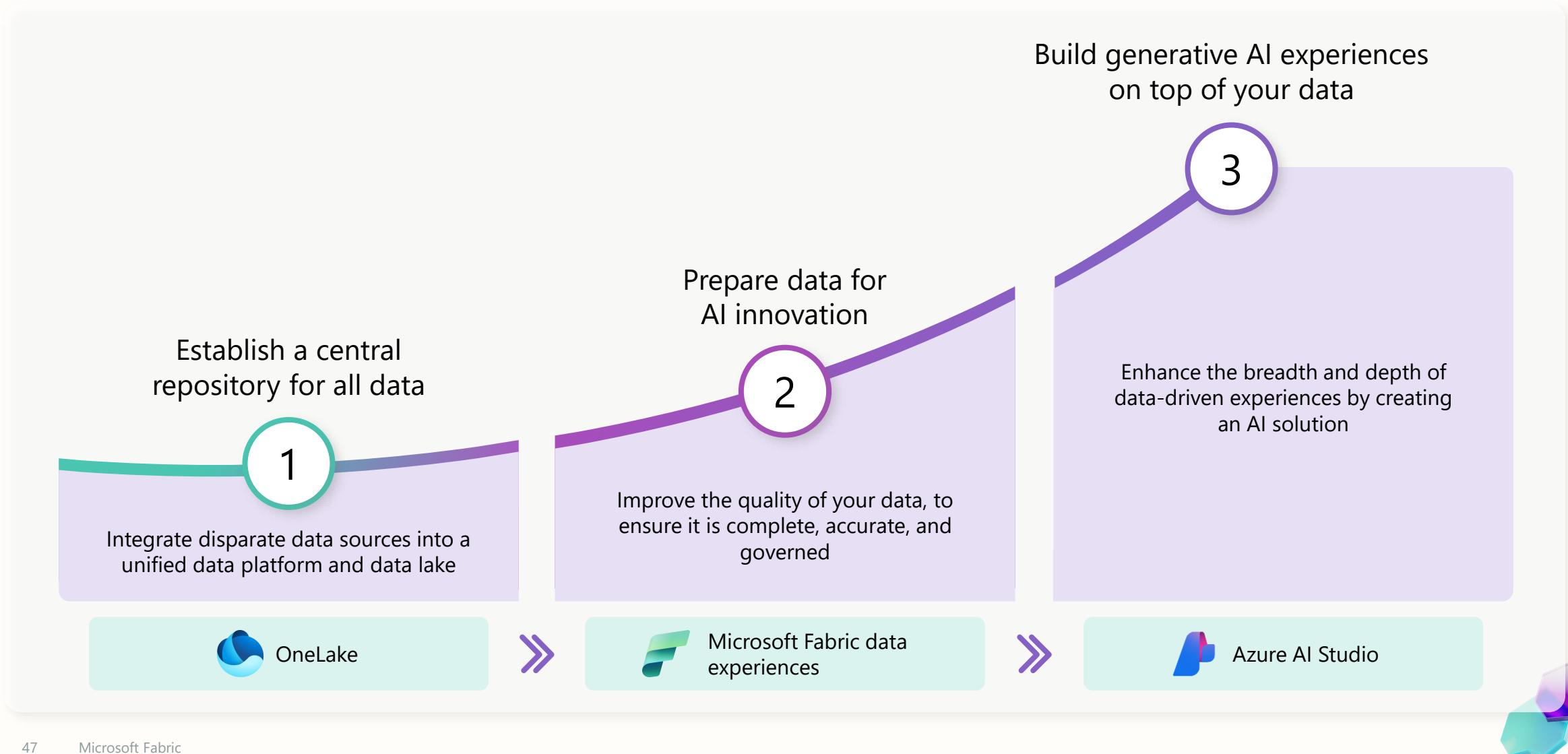


Reuse Fabric AI skills in **M365 Chat** and **Azure AI Studio**

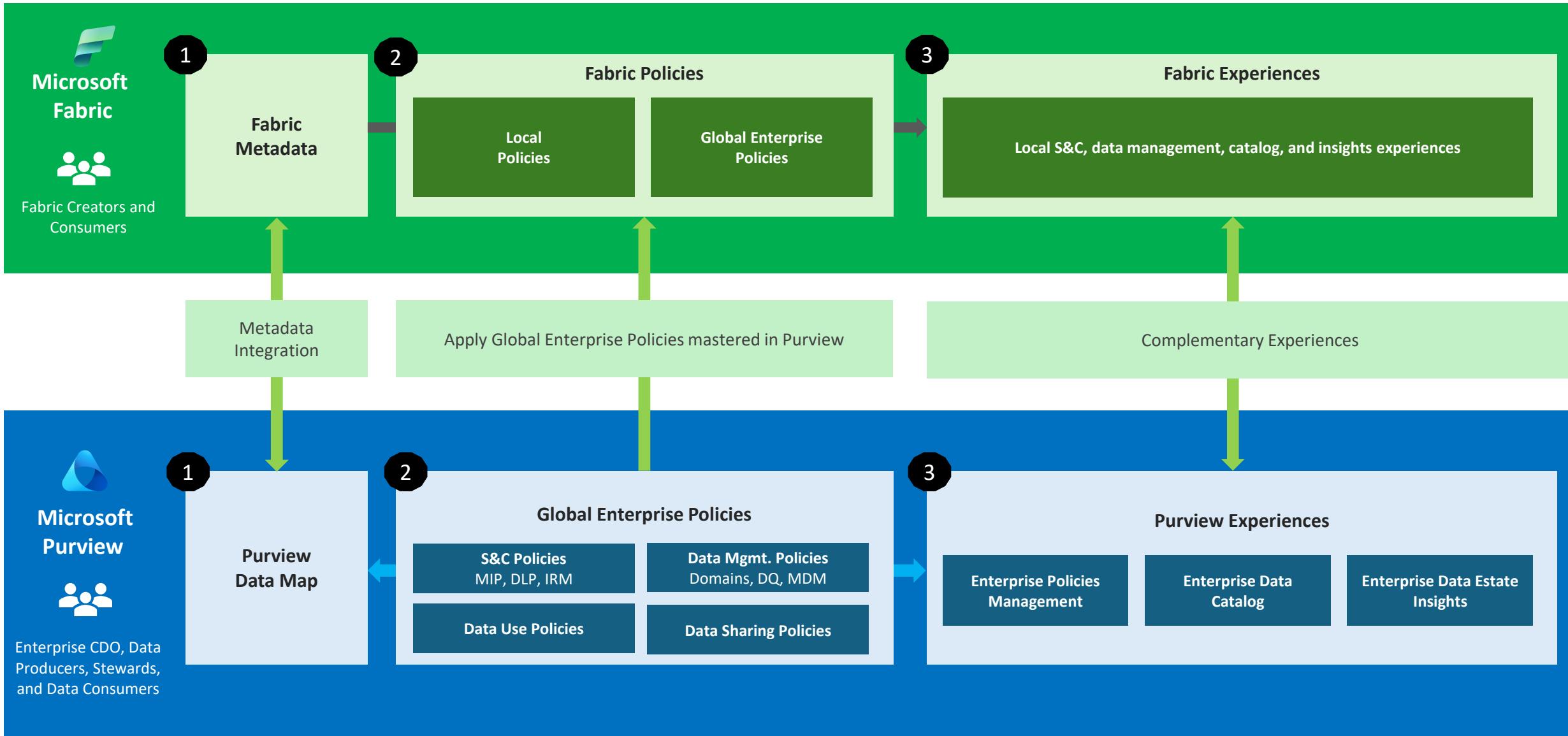
The screenshot shows a Microsoft Teams Chat window. On the left, there's a sidebar with activity, Teams, Calendar, Calls, Files, and Apps. The main area shows a conversation with several team members (Ray Tanaka, Beth Davies, Kayo Miwa, August Bergman, Copilot, Emilio Ceballos, Marie Beaudouin, Oscar Krogh, Daichi Fukuda, Kian Lambert, Team Design Template) and the AI bot 'Copilot'. A pinned message from August Bergman is visible. The AI bot has responded with an analysis of sales data, mentioning a \$250K increase from EMEA and APAC, with references to 'Sales lakehouse' datasets. The interface includes standard Microsoft Teams controls like search, copy, and reference links.

Demo

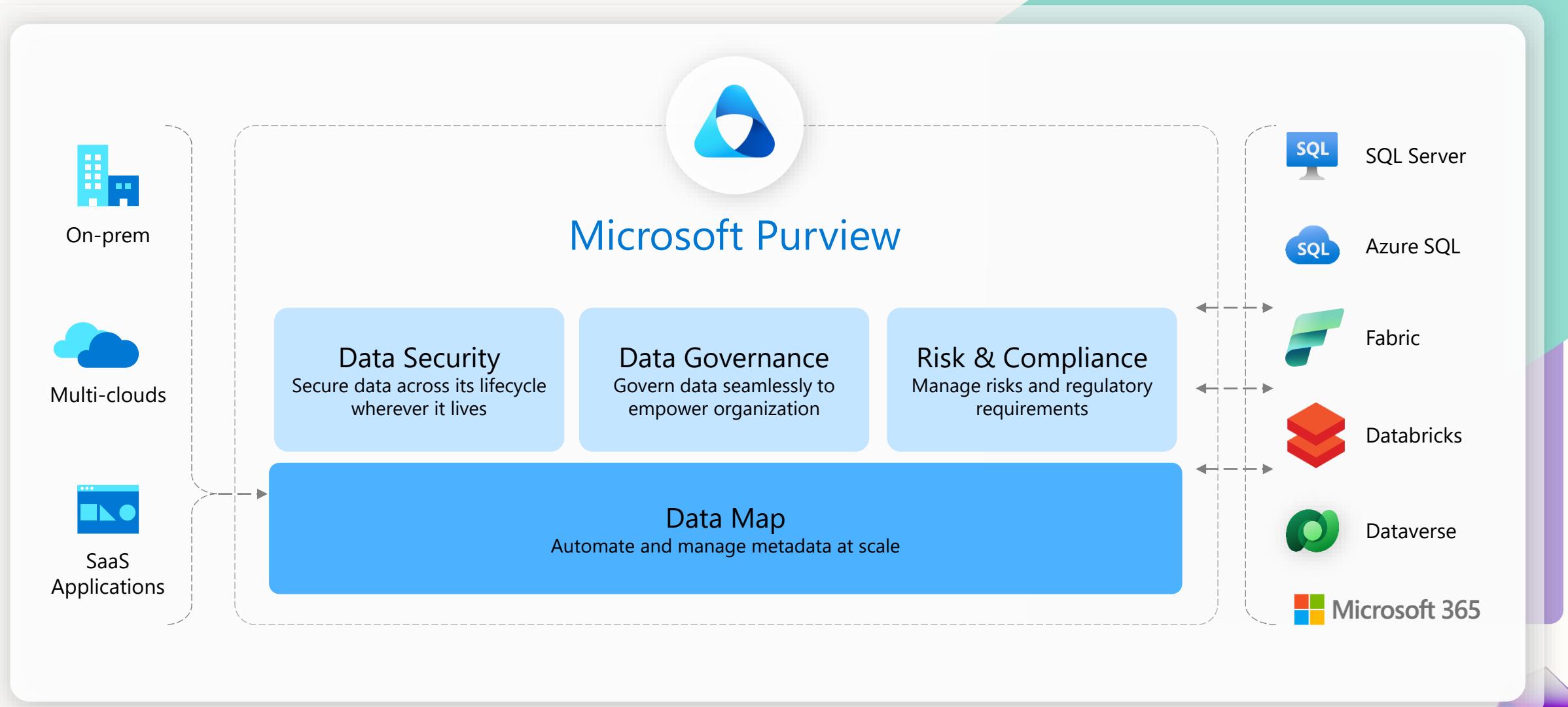
Fuel your journey to AI innovation by getting your data AI ready



Microsoft Fabric and Microsoft Purview



Govern and secure your data estate



Govern entire data estate with Purview Data Governance

Data Catalog

Curate data across entire data estate (including Fabric data) into **business domains** and **data products** for business-friendly data discovery and understanding

Data Discovery*

Discover, understand, and get access to data products containing Fabric data in the Purview data catalog

Data Management*

Manage access and data quality on data products containing Fabric data; **Master data management** through partners

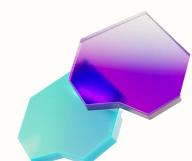
Data Estate Health*

Monitor and improve data estate health for data products across your organization including Fabric data

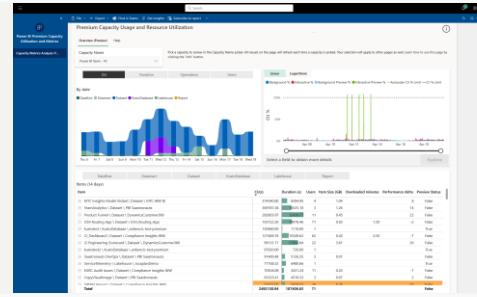
Additional Microsoft Purview purchase required
Currently onboarding preview by invitation



*Fabric integration coming soon

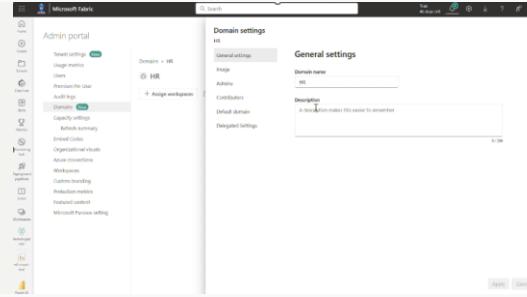


Create a logical data mesh to simplify management and increase usage



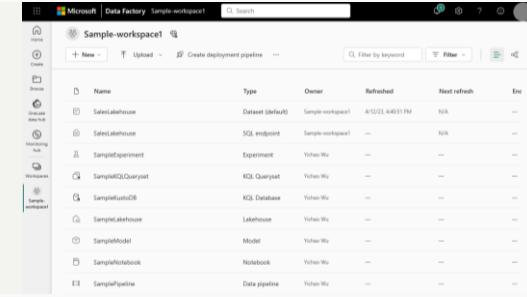
Capacities

Easily manage multiple capacities in a single tenant to **better manage cost**



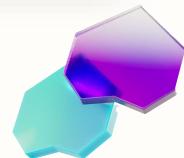
Domains and subdomains

Group data and workspaces together into a domain and sub domains to establish a **data mesh architecture**

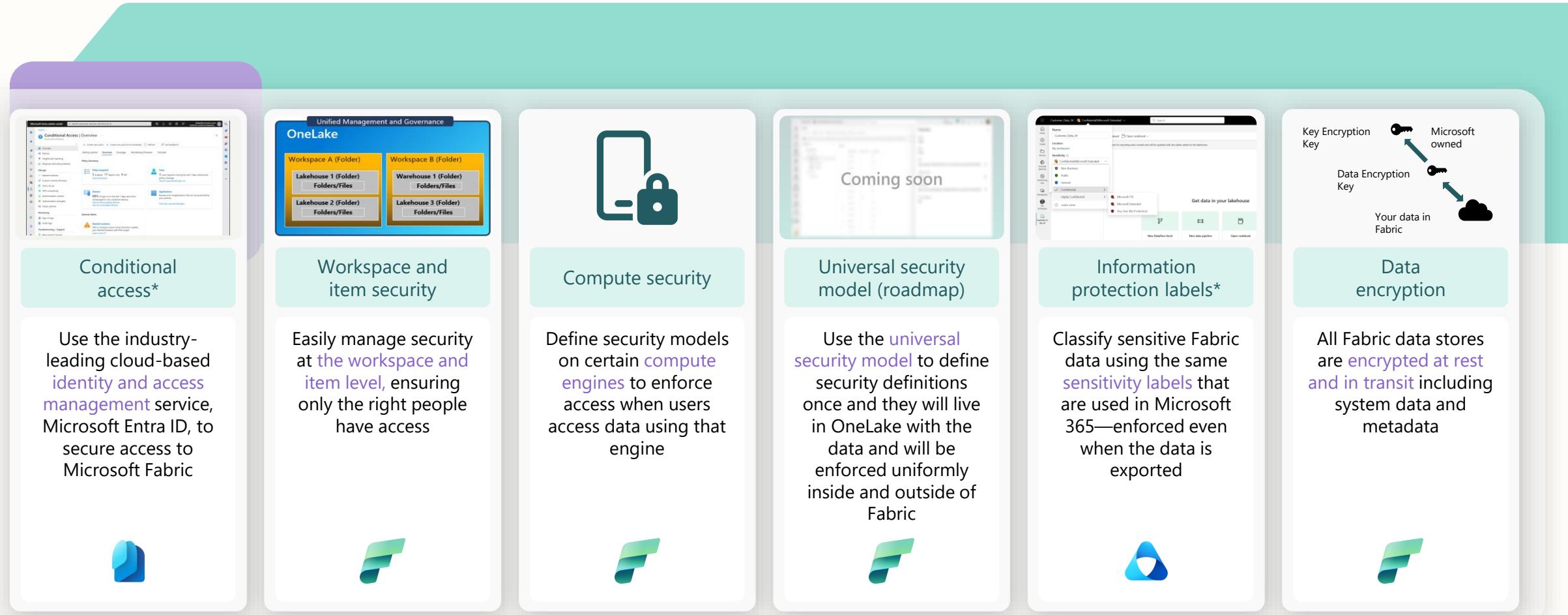


Workspaces

Group items like lakehouses, warehouses, and reports into workspaces to organize and more easily manage items together



Ensure only the right people have access to the right data



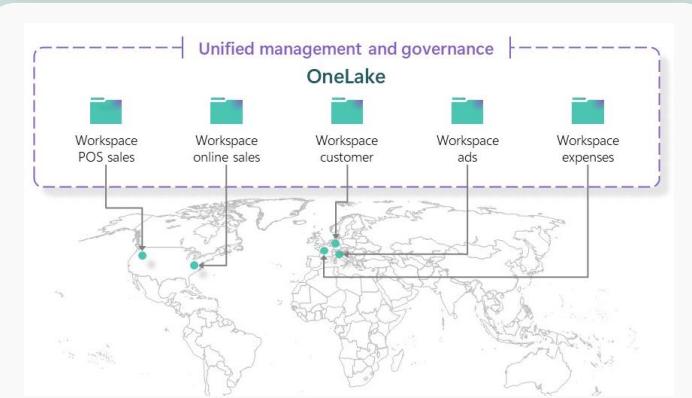
*Additional purchase required

Remain in compliance with even the strictest requirements



Certifications and standards

Microsoft Fabric, as a core online service, supports a wide range of compliance standards including GDPR, EUDB, HIPAA, ISO certifications and more



Data residency

Control where your data is stored and meet data residency requirements with over 54 data centers world-wide



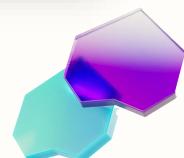
A screenshot of the Microsoft Purview Audit interface. The top navigation bar includes 'Home', 'Audit', 'Compliance Manager', 'Data classification', 'Data connectors', 'Alerts', 'Reports', 'Policies', 'Roles & Scopes', 'Tasks', 'Solutions', 'Catalog', and 'Audit'. Under the 'Audit' tab, there are sections for 'New Search', 'Classic Search', and 'Audit retention policies'. A search bar at the top right contains the text 'Created a warehouse'. Below the search bar, there are filters for 'Data and time range (UTC)', 'Record type', and 'Workload'. A table below lists audit events with columns for 'Search name', 'Job status', 'Progress...', 'Search #', 'Total results', and 'Creation time ...'. The table shows several completed jobs, such as 'Created a warehouse' and 'Created a warehouse file', with details like 'Completed' status, '0m 32s' duration, and '1483' total results.

Microsoft Purview Audit*

Log user activities from Microsoft Fabric to support security, forensic, and internal investigations



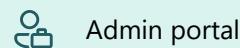
*Additional Microsoft Purview purchase required



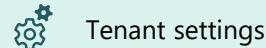
Gain full visibility and control with industry-leading features

Governance and security features built into Fabric

Manage your data estate



Admin portal



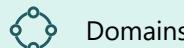
Tenant settings



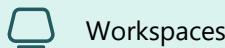
Workspace settings



Capacities

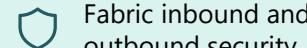


Domains

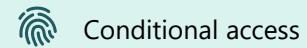


Workspaces

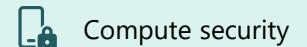
Secure, protect, and comply



Fabric inbound and outbound security



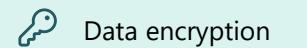
Conditional access



Compute security



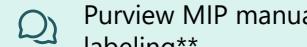
Workspace & item security



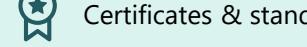
Data encryption



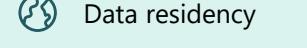
Universal security model*



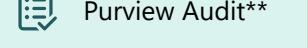
Purview MIP manual labeling**



Certificates & standards



Data residency



Purview Audit**

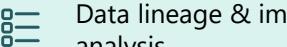
Encourage data discovery and use



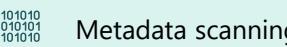
OneLake hub



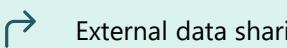
Endorsements



Data lineage & impact analysis



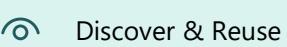
Metadata scanning



External data sharing*



Metadata curation



Discover & Reuse

Uncover insights and act



Admin monitoring



Capacity metrics



Monitoring hub



Purview Hub

Fabric metadata



Microsoft Purview



Comprehensive data security¹



Federated data governance¹



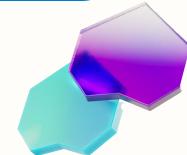
Risk & compliance posture¹

Fabric auto-attaches to Microsoft Purview

*Features coming soon



**Additional Microsoft Purview purchase required



Get started with Fabric and Purview for free



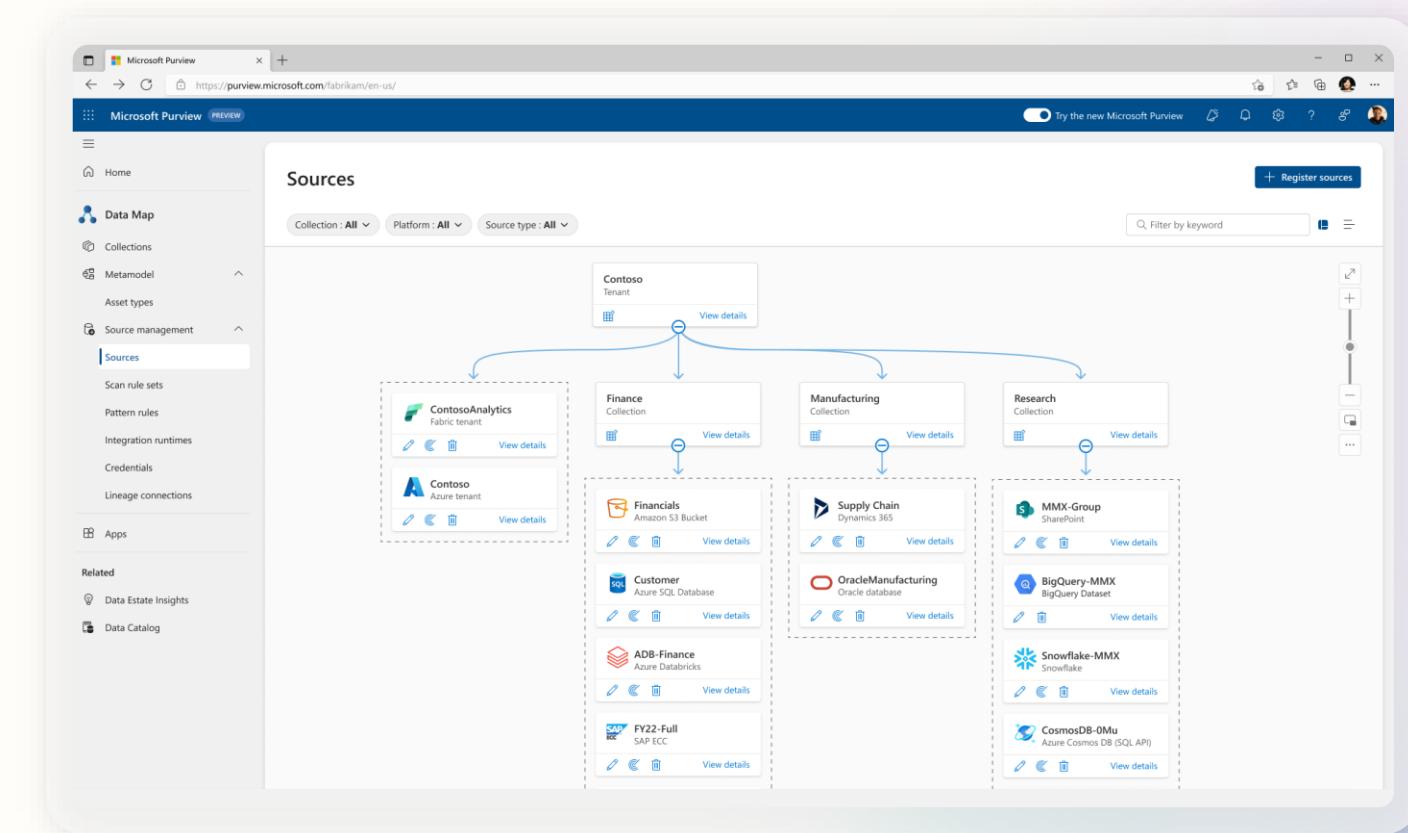
Try out Purview easily with **no set-up required** with Purview Data Map automatically provisioned and attached to every Fabric instance by default



Scan Fabric tenants at no extra cost and discover data assets across your Fabric landscape with data discovery, sensitive data classification, and end-to-end data lineage.



Search and explore Fabric data assets in the Purview Data Catalog including the technical properties, sensitive data classification, and data lineage



References



HITACHI
Inspire the Next



Persistent

TOPSOE

ABInBev

Lenovo

Icertis

Mahindra

PIAGGIO

Vancouver
Coastal Health

A
THE ADECCO GROUP



INTESA SANPAOLO

MCKESSON

REPSOL

Z
ZURICH

ambev

ETIHAD

JTI

NEW
LOOK

SAMSUNG

CANADIAN
TIRE

blue
california

FERRING
PHARMACEUTICALS



NOKIA

Shell

T
Mobile

✓ Bovemij



L'ORÉAL

OPTUS

Telefónica

Dow

Culligan

GRUPPO
HERA

andel

Manulife

tomtom

Kroger



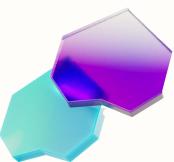
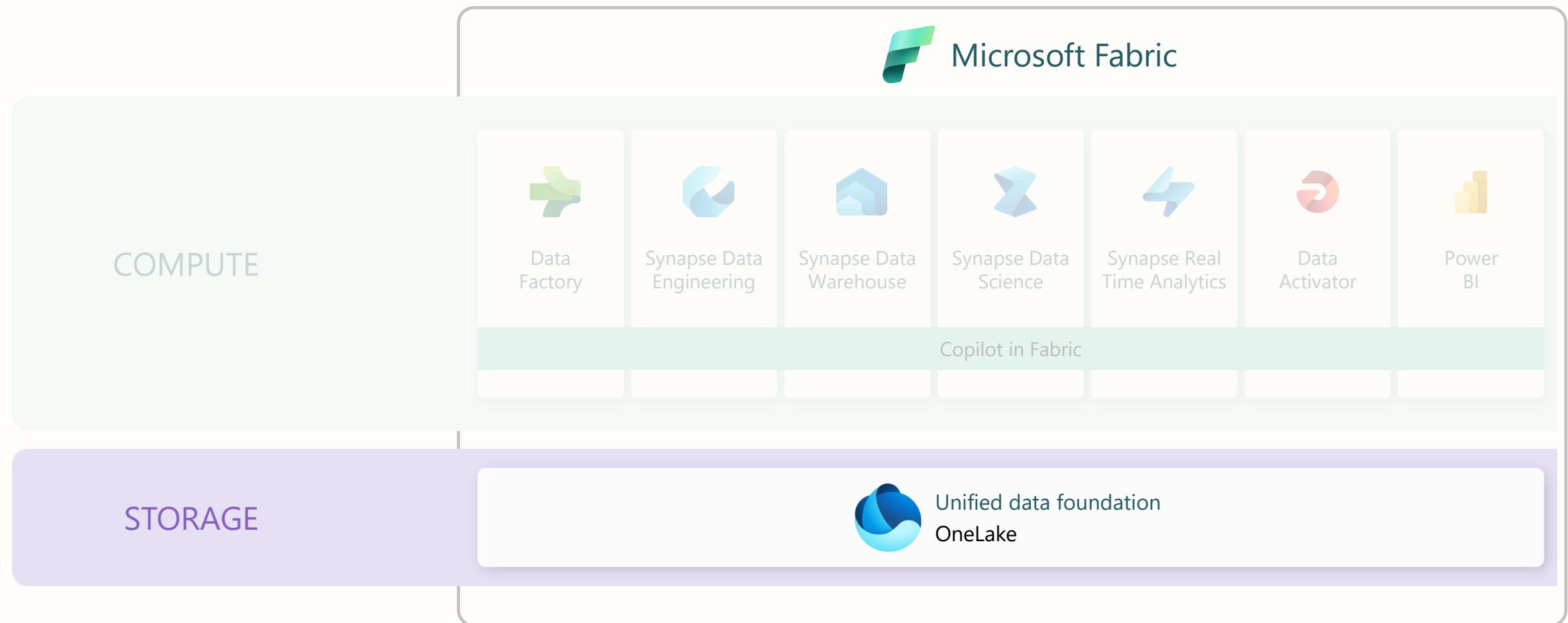
Microsoft

Microsoft Fabric

Microsoft Fabric Licensing



Microsoft Fabric business model overview



OneLake pricing

OneLake is a data lake built into Microsoft Fabric and provides a single place to store all organizational data. Data storage is charged at a rate of € per GB per month and priced uniquely across regions.



Data Storage

Type	Pay-as-you-go price at West Europe
OneLake storage	€0.0217 per GB/month
OneLake BCDR storage	€0.0415 per GB/month
OneLake cache	€0.2342 per GB/month

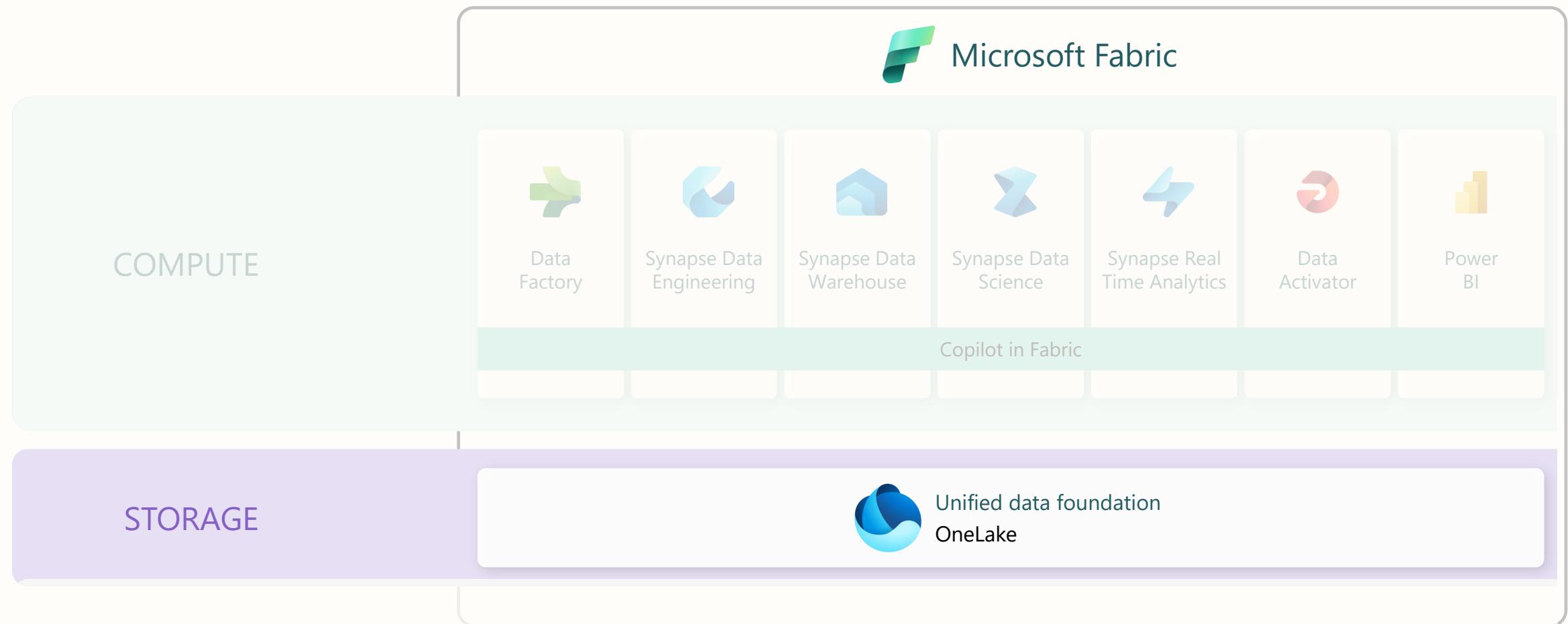


Data Transfer & Internet Egress

Cross-region data transfer network charges may apply based on source/destination of each storage access. Learn more at the [Bandwidth Pricing](#).

Note: OneLake cache is billed for KQL cache storage and Data Activator data retained.

Microsoft Fabric business model overview



How it works

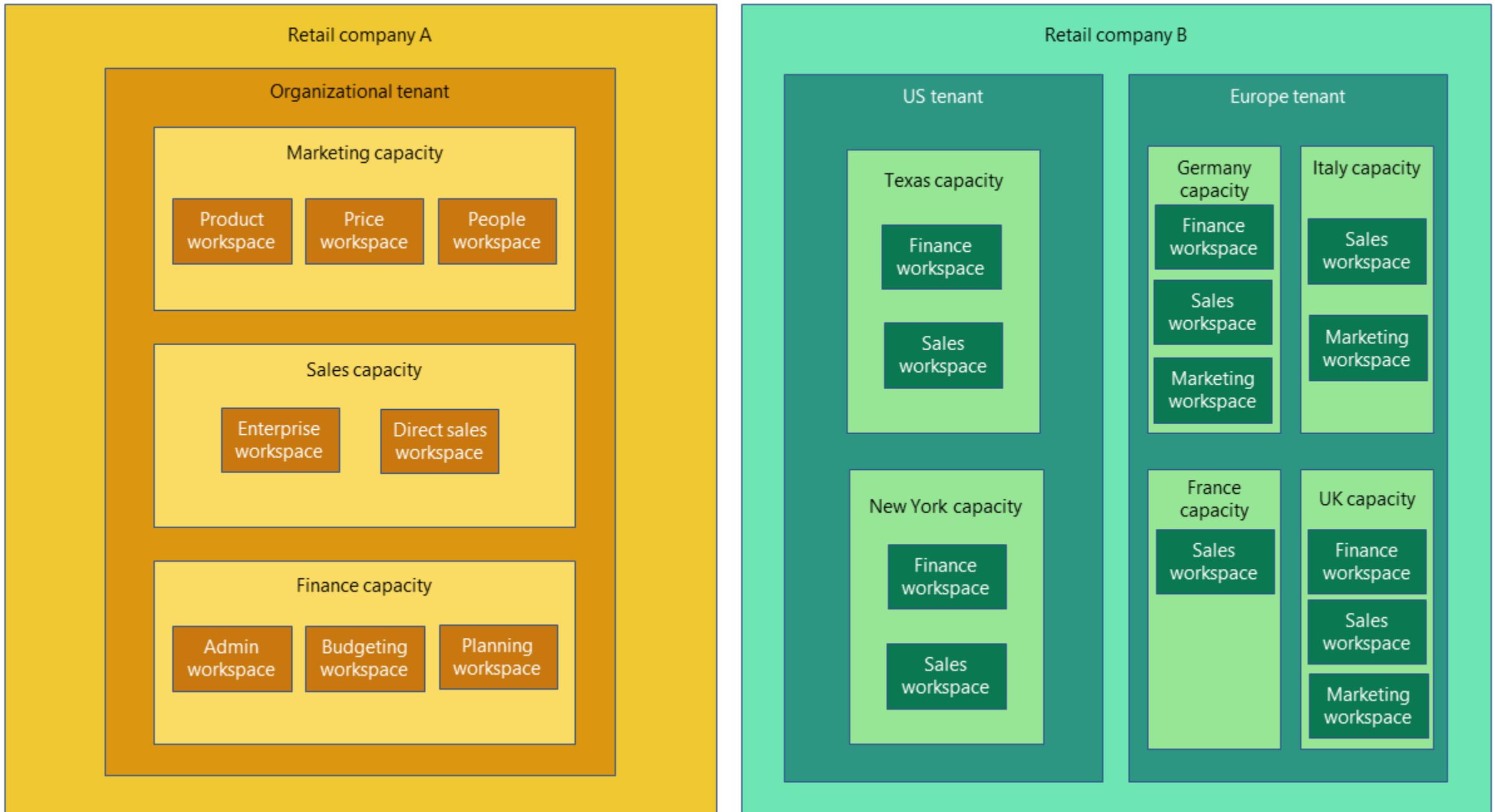
Capacity units (CUs) = Compute power

Capacity units (CUs) are units of measure that represent a pool of compute power needed. Compute power is required to run queries, jobs, or tasks.

CU Consumption

The CU consumption is highly correlated to the underlying compute effort needed for the tasks performed by the capability during the processing time.

Each capability, such as Power BI, Spark, Data Warehouse, with the associated queries, jobs, or tasks has a unique consumption rate.





Microsoft Fabric

How to License Compute in Fabric

Compute

Power BI Premium Capacity
P SKU: 1-5

Fabric Capacity
F SKU: 2-2048

- Purchased via M365 on the EA
 - P SKU powers all Fabric compute workloads with no additional action required
 - Monthly commitment
 - Global pricing
-
- Purchased via Azure Portal
 - Smaller entry-level starting at F2
 - Pay-as-you-go with pause/resume or 1yr reserved instance at ~40.5% discount
 - Purchase against MACC
 - Regional pricing
 - **Include all advanced security features**



Microsoft Fabric

Advanced Security Feature (F64 or higher)

P vs F Advanced Security Features Offering	P SKU	F SKU
1. Trusted Workspace Access to ADLS Gen2	No	Yes
2. Managed Private Endpoint for Spark	No	Yes
3. Workspace Level Private Link	No	Yes



Microsoft Fabric

Transitioning Power BI Premium per capacity to Fabric

End of sales for new customers

Existing customers transition to Fabric

End of Sales

End of Renewals

End of Life (non-EA agreements)

End of Life (EA agreements)

July 1, 2024

Jan 1, 2025

Jan 1, 2026

Jan 1, 2028

For additional documentation on the Power BI Premium per capacity transition to Fabric, please see here: <https://aka.ms/P-SKU-Blog>

Translating Microsoft Fabric SKUs

Power BI Premium per capacity SKUs	
SKU	PBI vCore
P1	8
P2	16
P3	32
P4	64
P5	128

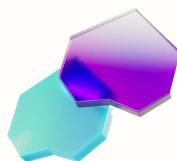
Microsoft Fabric SKUs	
SKU	CU
F2-F32	2-32
F 64	64
F 128	128
F 256	256
F 512	512
F 1024	1024



Migrating to F-SKUs

- Simply reassign workspaces to the new F-SKU capacity
- Bulk reassign to save time
- Access artifacts for at least 90 days after their P-SKU capacity subscription has ended

For additional documentation on the Power BI Premium per capacity transition to Fabric, please see here: <https://aka.ms/P-SKU-Blog>



Fabric capacity pricing

Fabric capacity is priced uniquely across regions. The following table shows the pricing at West Europe for reference. Fabric capacity can be purchased at Azure portal. Visit [Fabric pricing page](#) for more details.

1 CU pay-as-you-go price at West Europe €0,1981/hour

SKU	Capacity unit (CU)	Pay-as-you-go (monthly)	Reservation (monthly) ~40.5% saving over Pay-as-you-go
F 2	2	€289,24	€172,00
F 4	4	€578,48	€343,99
F 8	8	€1.156,96	€687,98
F 16	16	€2.313,91	€1.375,96
F 32	32	€4.627,83	€2.751,91
F 64	64	€9.255,65	€5.503,83
F 128	128	€18.511,30	€11.007,66
F 256	256	€37.022,60	€22.015,31
F 512	512	€74.045,21	€44.030,62
F 1024	1024	€148.090,41	€88.061,23
F 2048	2048	€296.180,820	€176.122,47

Note:

1. 1 CU PAYGO monthly rate calculation: €0.1981*730 =€144,62. F2 =€144,62*2=€289,24

2. Power BI Pro license is required for all Power BI Premium ("P") and Fabric Capacity ("F") SKUs to publish Power BI content to Microsoft Fabric. Enabling content consumers to review and interact with Power BI reports without additional paid per-user licenses is available at P1 and above (and F64 and above).

Copilot in Microsoft Fabric

Accelerate productivity

Unlock deeper insights

Deliver custom AI experiences for your data

We announced the public preview of Copilot in Fabric at Ignite, starting with the Power BI, Data Factory, Synapse Data Engineering, and Synapse Data Science experiences

Copilot in Fabric will be rolling out in stages with the goal that all customers with purchased capacity have access by the end of March 2024

Copilot in Fabric is limited to customers who have purchased Fabric capacity (F64 or higher) or Power BI Premium capacity (P1 and above) and is not included in the Fabric free account or trial

To use Copilot, you can simply count Copilot usage against their existing Fabric or Power BI Premium capacity

Copilot in Microsoft Fabric is in Public Preview

Free 60-day trial



Microsoft Fabric



aka.ms/try-fabric



Licensing FAQ (1/2)

1. Does P SKU include all Fabric experiences? No, it does not include the newly released network connectivity capabilities
2. Does F SKU include all Fabric experiences? Yes, including Power BI Embedded ([link](#)). But Copilot in Fabric and unlimited sharing of Power BI items requires F64 or above ([link](#)).
3. Does Copilot for Fabric require *additional* licensing? No. It consumes resources from capacities but requires the size to be P1/F64 or above ([link](#)).
4. Does Copilot in Fabric include Copilot for Power BI? Yes ([link](#)). Microsoft 365 Copilot does NOT include Copilot for Power BI.



Licensing FAQ (2/2)

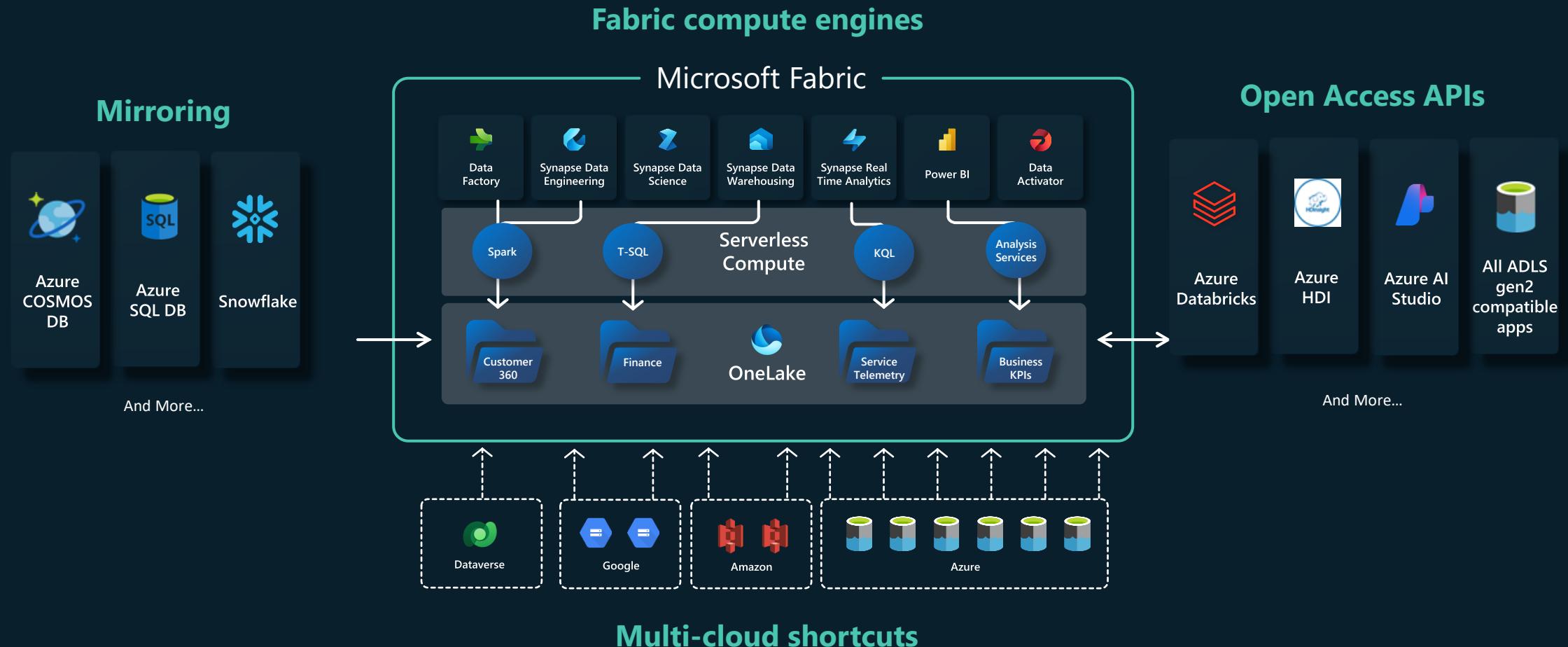
5. Is F SKU MACC eligible? Yes, but P SKU is not ([link](#)).
6. What capacity size do I need? Test your workload for free using a trial capacity (aka.ms/try-fabric) and monitor the capacity usage with the Fabric Capacity Metrics App ([link](#)) for an accurate indication.
7. Does Power BI Premium Per User license include Microsoft Fabric? No ([link](#)).
8. Do I still need a Power BI Pro license? Yes, to share Power BI content with other users. Consumers of Power BI content do NOT need a Power BI Pro license if the workspace is backed by capacity size F64/P1 or larger ([link](#)).



Transitioning to Microsoft Fabric

All roads lead to OneLake

Creating Data Gravity in OneLake



Releasing task flows soon!

What Architecture should I use?

Select a task flow

General
A high-level data processing task flow that guides you through typical tasks and the items assigned to them.

Basic data analytics
A basic, step-by-step task flow for batch data analytics.

Data analytics using a SQL analytics endpoint
Select unstructured, semi-structured, or structured data from lakehouse files, and then create reports.

Warehouse to datamart
Centralize data in warehouse and tailor it to datamarts.

Medallion
Organize and improve data progressively as it moves through each layers.

Event analytics
Process and analyze real-time data as it is generated to extract insights quickly.

Lambda
Process batch and real-time data in one data process flow.

Sensitive data insights
Process and analyze your sensitive data.

Basic machine learning models
Train machine learning models and generate insights to drive decisions.

End-to-end datamart
Create rich visualizations based on the data in your datamart using little or no code.

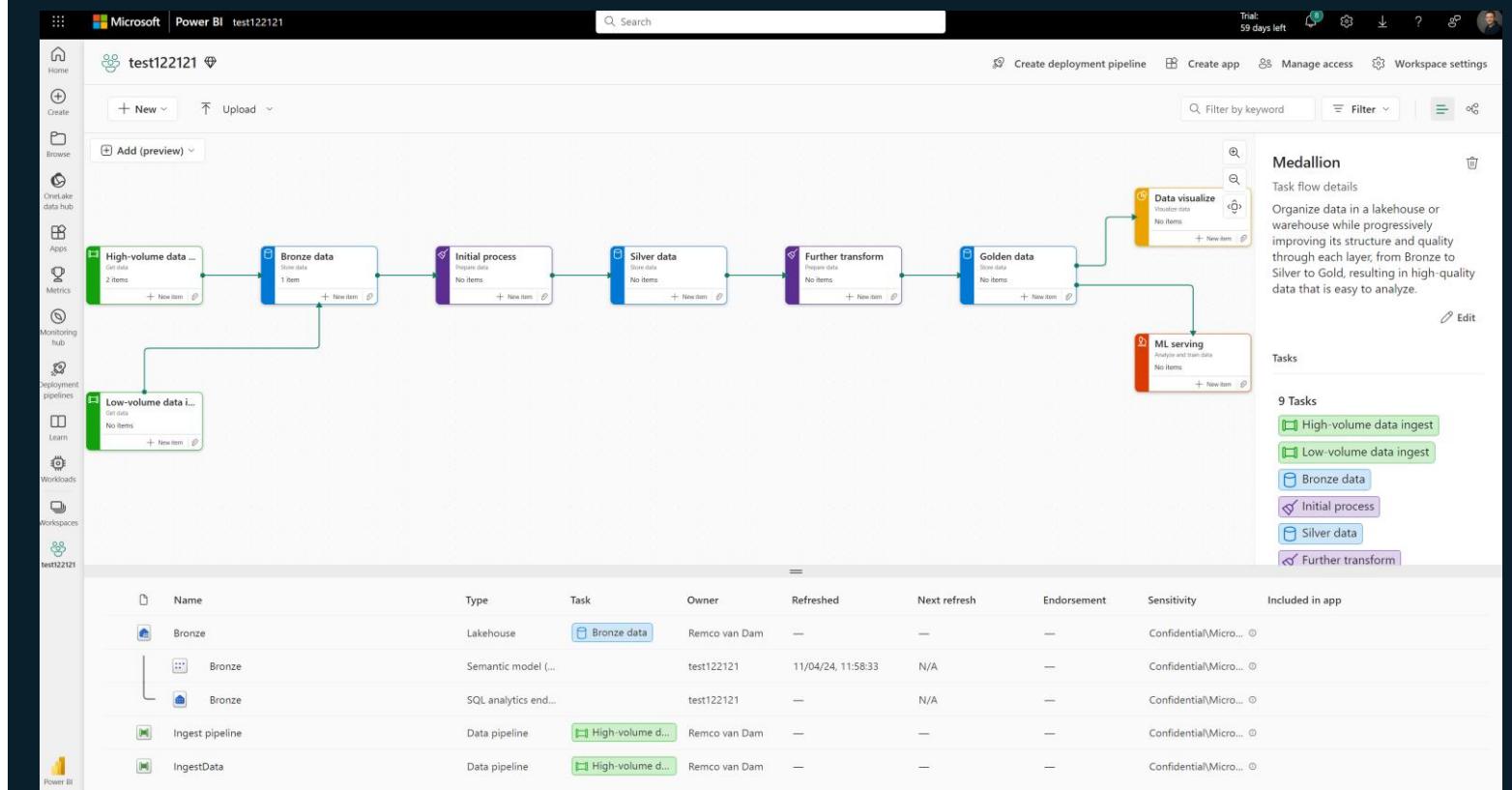
Required Workloads

- Data Engineering
- Data Factory
- Data Science
- Data Warehouse
- Real-Time Analytics
- Power BI

Required item types

- Data pipeline
- Eventstream
- Dataflow Gen2
- Notebook
- Spark Job Definition
- Lakehouse
- Warehouse
- Report
- Dashboard
- ML model
- Experiment
- Environment

Select **Cancel**



Medallion architecture

Although the 3-layered design is common and well-known, there are many discussions on the scope, purpose, and best practices on each of these layers.



Bronze layer

Typically raw, "as-is"

- Maintains the raw state in the structure "as-is"
- Data is immutable (read-only)
- Delivery-based partitioned tables, i.e., YYYYMMDD
- Mostly Delta Parquet. Sometimes other formats
- Can be any combination of streaming and batch transactions
- May include extra metadata (schema)
- May be fed from a "mediation layer"
- Used for debugging, testing



Silver layer

Cleaned, filtered

- Uses data quality rules for validation
- Usually only functional data
- Historization is merged (SCD2)
- Efficient storage format; Delta Parquet
- Versioning for rolling back
- Handles missing or incorrect data
- Usually enriched with reference data
- Source-oriented, although queryable and cluttered around subject areas
- Usually used by operational analytical teams

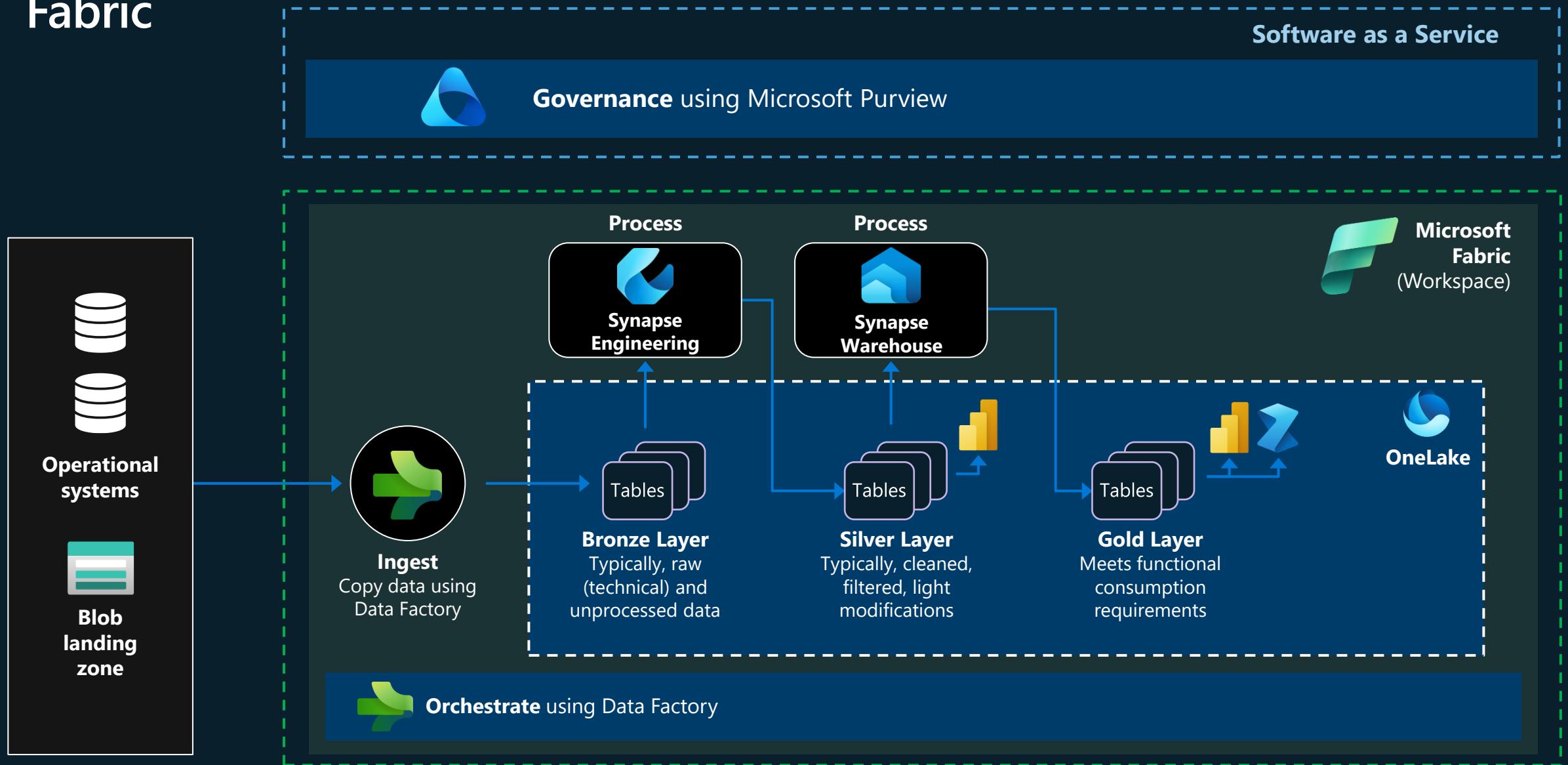


Gold layer

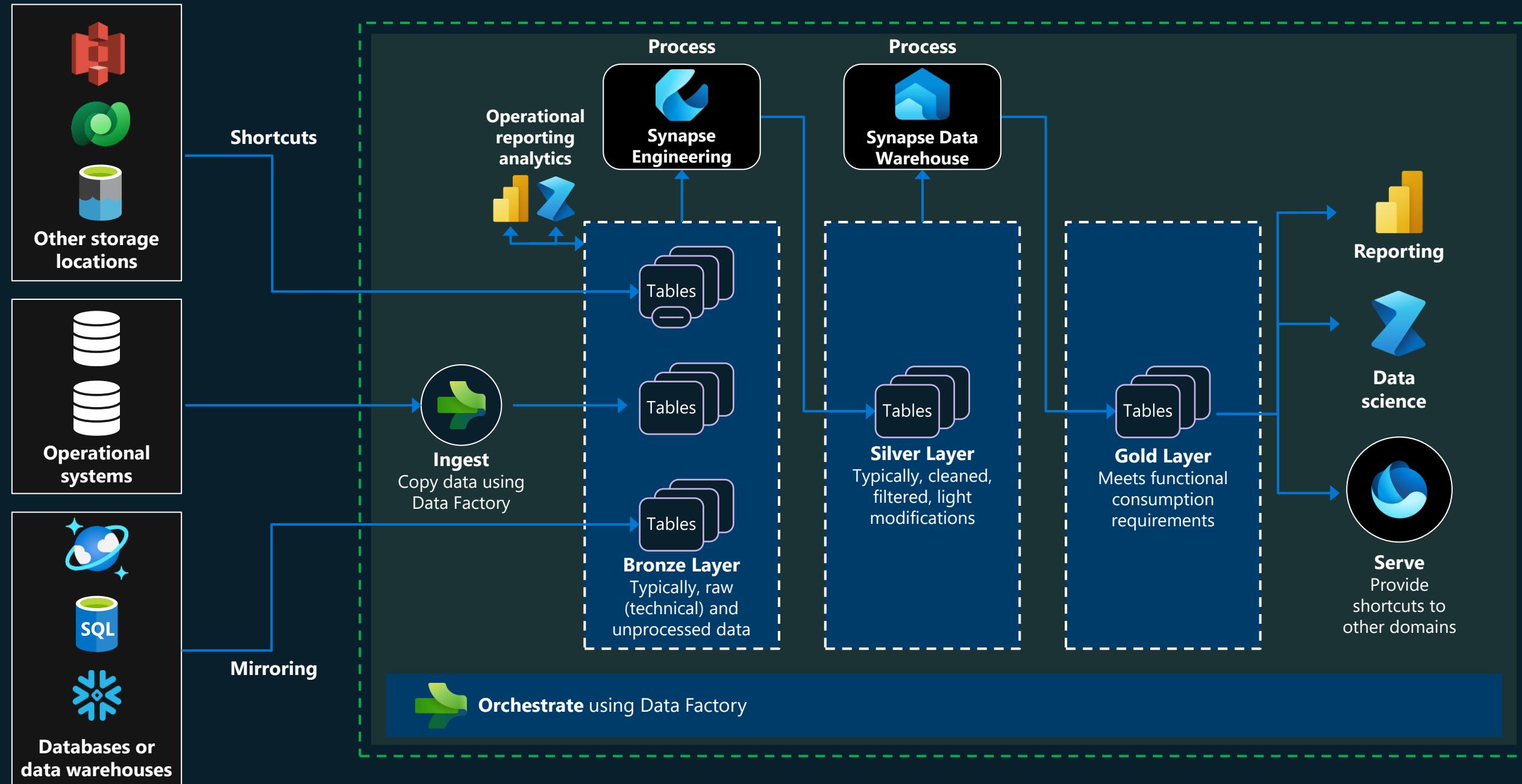
Refined business-level

- What enterprises call data products: consumer-ready / user-friendly data
- Data is highly governed and well-documented
- Historization is applied only for the set of use cases or consumers
- Contains complex business rules, such as calculations and enrichments
- Efficient storage format; Delta Parquet
- Versioning for rolling back
- Might contain additional sub layers for sharing or distributing data

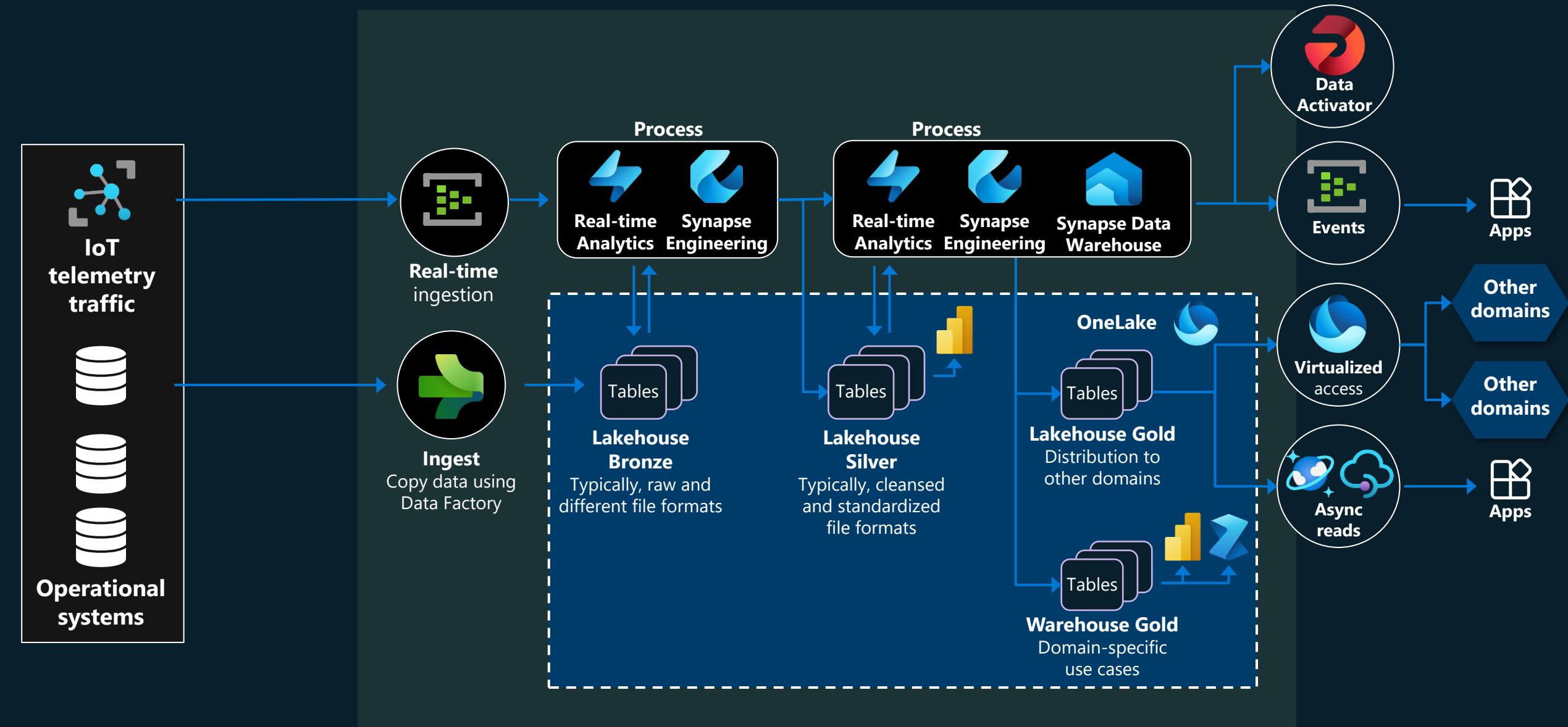
Logical overview of how the Lakehouse Architecture is presented for Fabric



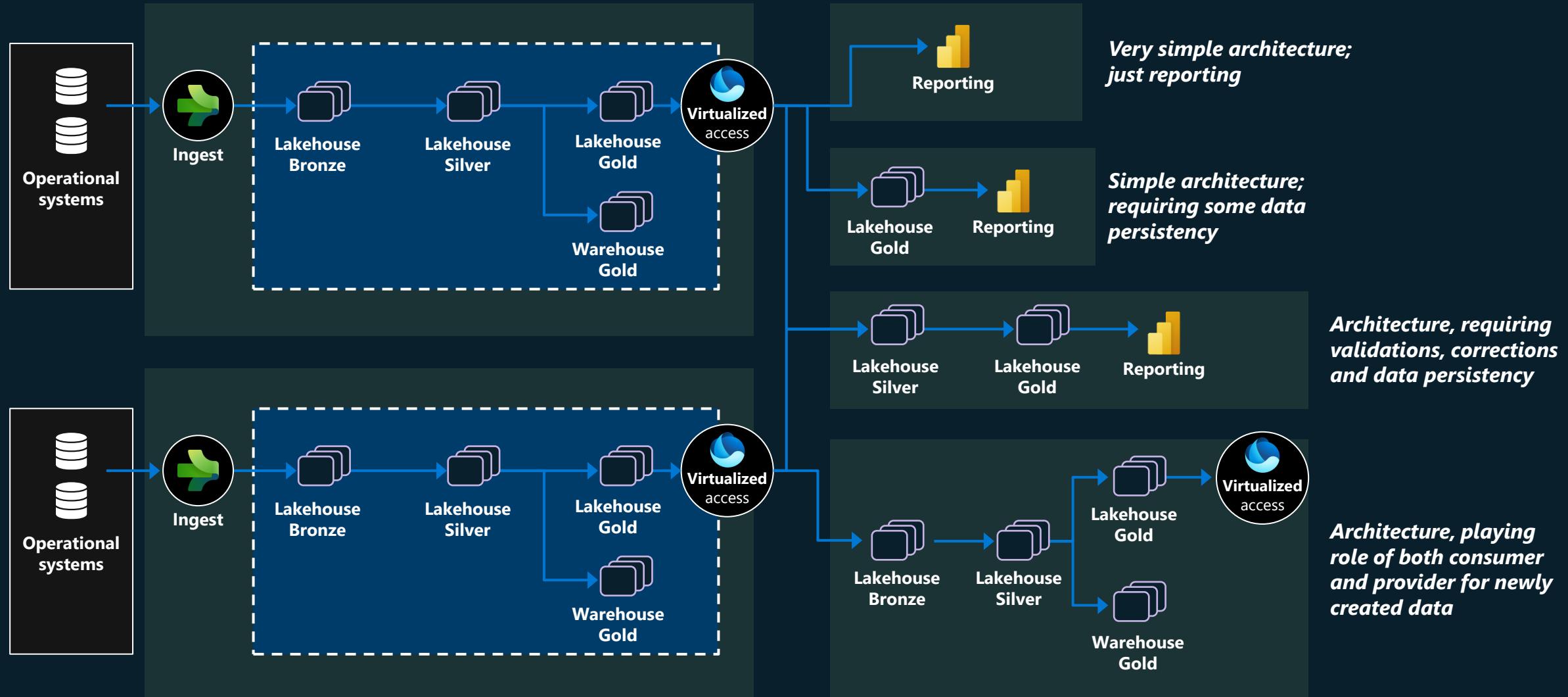
Bronze operating as a conglomerate of physical copies, shortcuts and mirroring



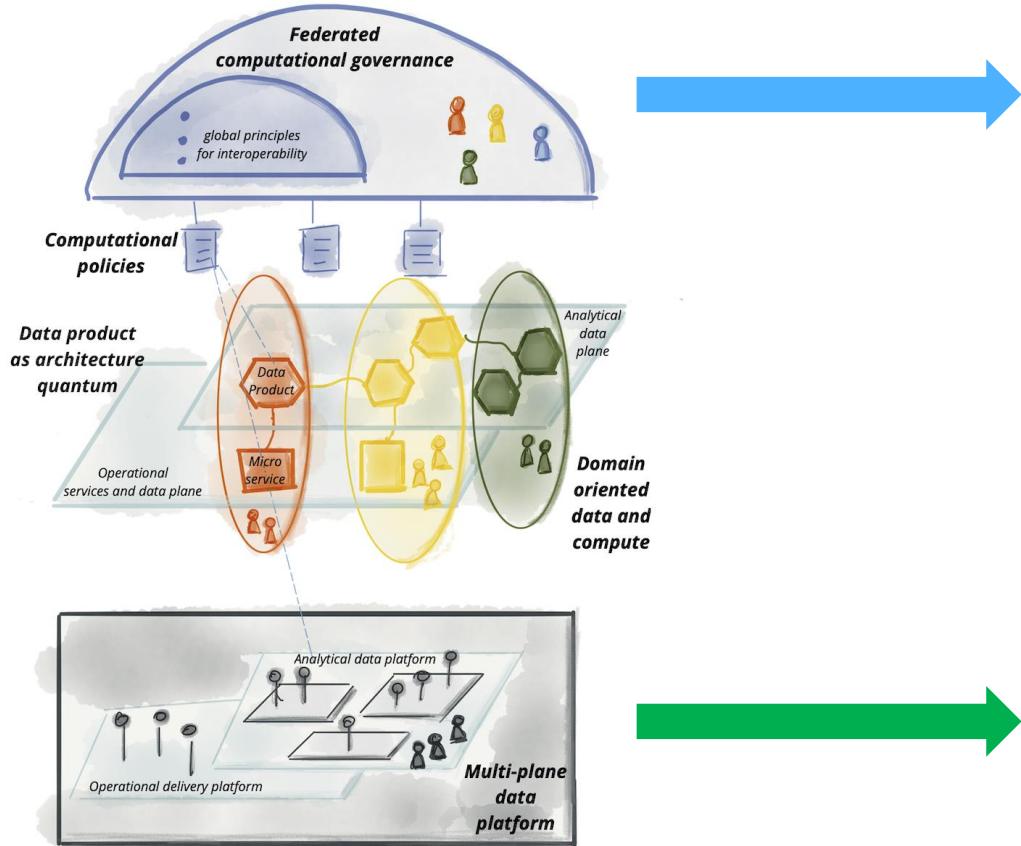
Adding API- and event-based integration patterns to the Lakehouse Architecture



Lakehouse architectures on the consuming side will also look quite different depending on consumer's archetype



Mapping concepts to a solution architecture



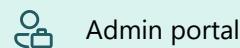
Data Mesh Principles by Zhamak Dehghani



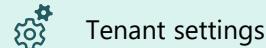
Gain full visibility and control with industry-leading features

Governance and security features built into Fabric

Manage your data estate



Admin portal



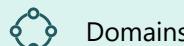
Tenant settings



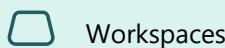
Workspace settings



Capacities

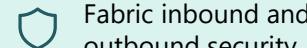


Domains

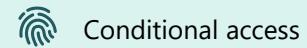


Workspaces

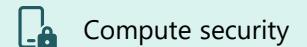
Secure, protect, and comply



Fabric inbound and outbound security



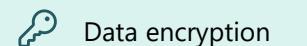
Conditional access



Compute security



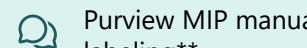
Workspace & item security



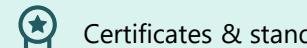
Data encryption



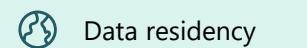
Universal security model*



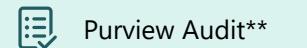
Purview MIP manual labeling**



Certificates & standards



Data residency



Purview Audit**

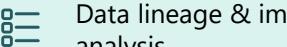
Encourage data discovery and use



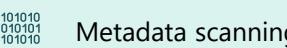
OneLake hub



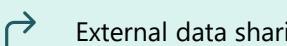
Endorsements



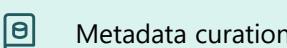
Data lineage & impact analysis



Metadata scanning



External data sharing*



Metadata curation



Discover & Reuse

Uncover insights and act



Admin monitoring



Capacity metrics



Monitoring hub



Purview Hub

Fabric metadata



Advanced Govern and secure Fabric data

Microsoft Purview



Comprehensive data security¹



Federated data governance¹



Risk & compliance posture¹

Fabric auto-attaches to Microsoft Purview

*Features coming soon



**Additional Microsoft Purview purchase required



Your Analytics upgrade path to Microsoft Fabric

Applicable for existing customers

Investment	Pattern	Solution	Availability
	#1 Azure Databricks only	Using Azure Databricks for entire implementation.*	Continue relying on Azure Databricks Lakehouse. Enable Microsoft Fabric with ADLS G2 Shortcuts to use the best of both worlds between ADB + Fabric.* Ready to use When using unity: <ul style="list-style-type: none">• Use notebook• Native integration is being worked on
	#2 Azure Databricks and Synapse	1. Using Azure Databricks and Spark and data engineering. 2. Synapse SQL Dedicated Pools for data warehouse and serving	1. ADLS G2 Shortcuts for OneLake. 2. Microsoft 1st Party solution for Synapse Gen2 to Fabric SQL code migration. 1. ADLS G2 Shortcuts ready to use. 2. Microsoft 1st Party solutions coming in 2024.
	#3 Synapse Dedicated Pools	Using Synapse SQL Dedicated Pools for most of implementation with some Spark.	Microsoft 1st Party solutions for DW replication and Synapse G2-to-Fabric SQL code migration. Microsoft 1st Party solutions coming in 2024. Accelerator available today
	#4 Power BI	Using Power BI Dataflow for data preparation or other legacy reporting services.	1. Test drive Dataflow G2 if currently using G1 Dataflow 2. Consider migrate to Power BI Premium if currently using on-prem reporting servers Ready to use

*Solution applicable for investments in Synapse Spark.

Better together through OneLake

Open and Governed Lakehouse



Microsoft Fabric



Azure Databricks

All Fabric engines have been redesigned and optimized for delta parquet as their storage format for tabular data

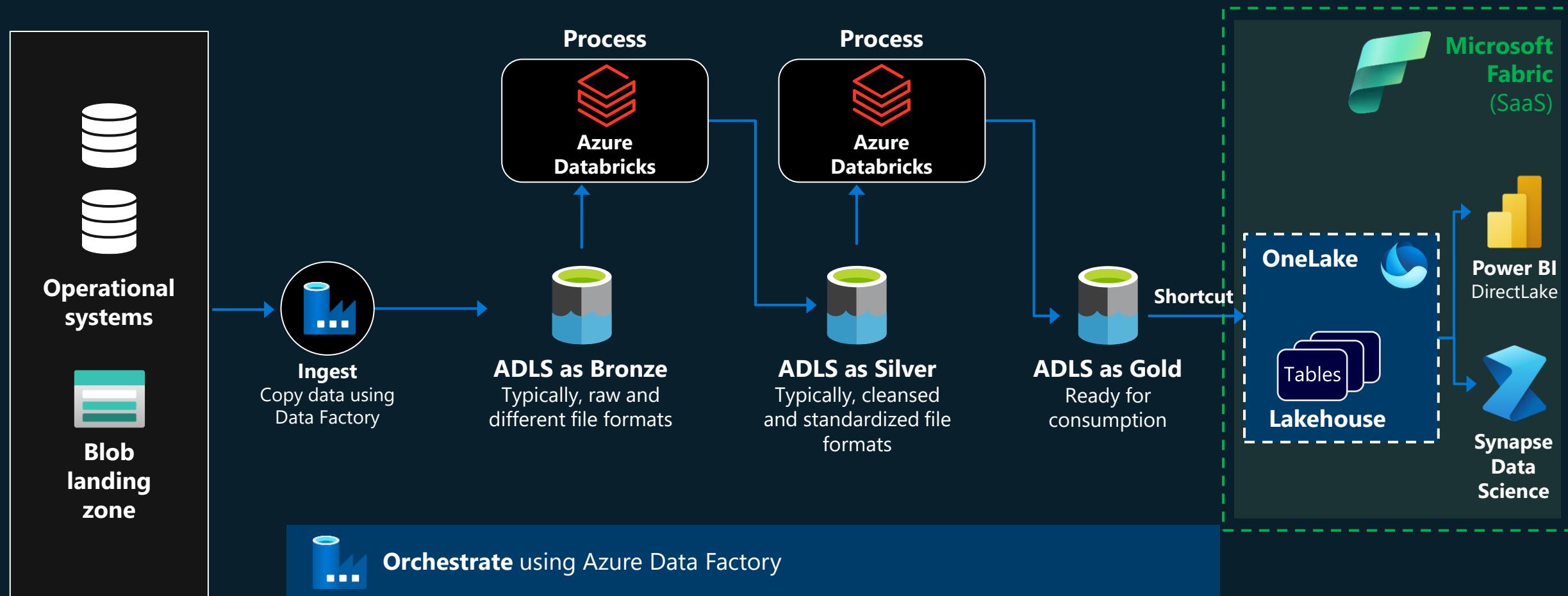
Azure Databricks can directly read/write data from any Fabric data item stored in OneLake through external link.

Existing non-Unity Catalog managed data in ADLS gen2 storage can be a shortcut into OneLake.

Works with all Fabric engines including Power BI with direct lake mode.

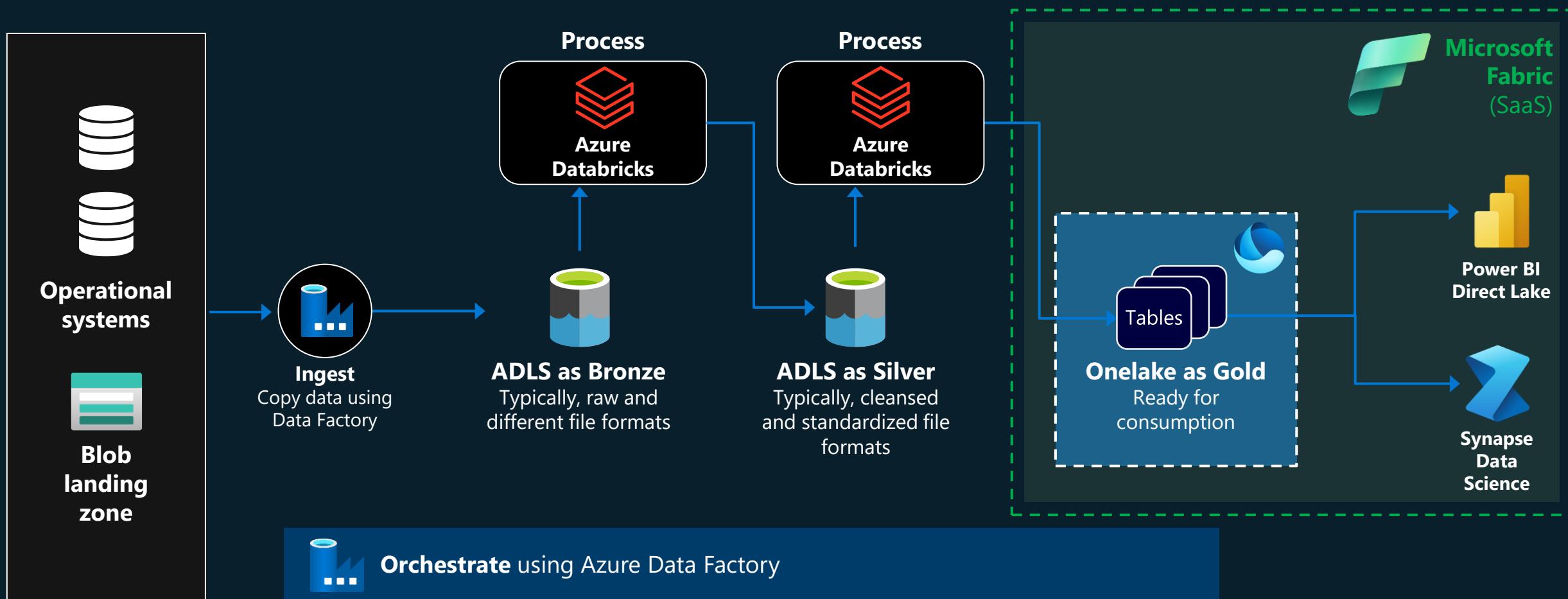
Lakehouse architecture – ADLS as Gold Layer

<https://learn.microsoft.com/en-us/fabric/onelake/create-adls-shortcut>



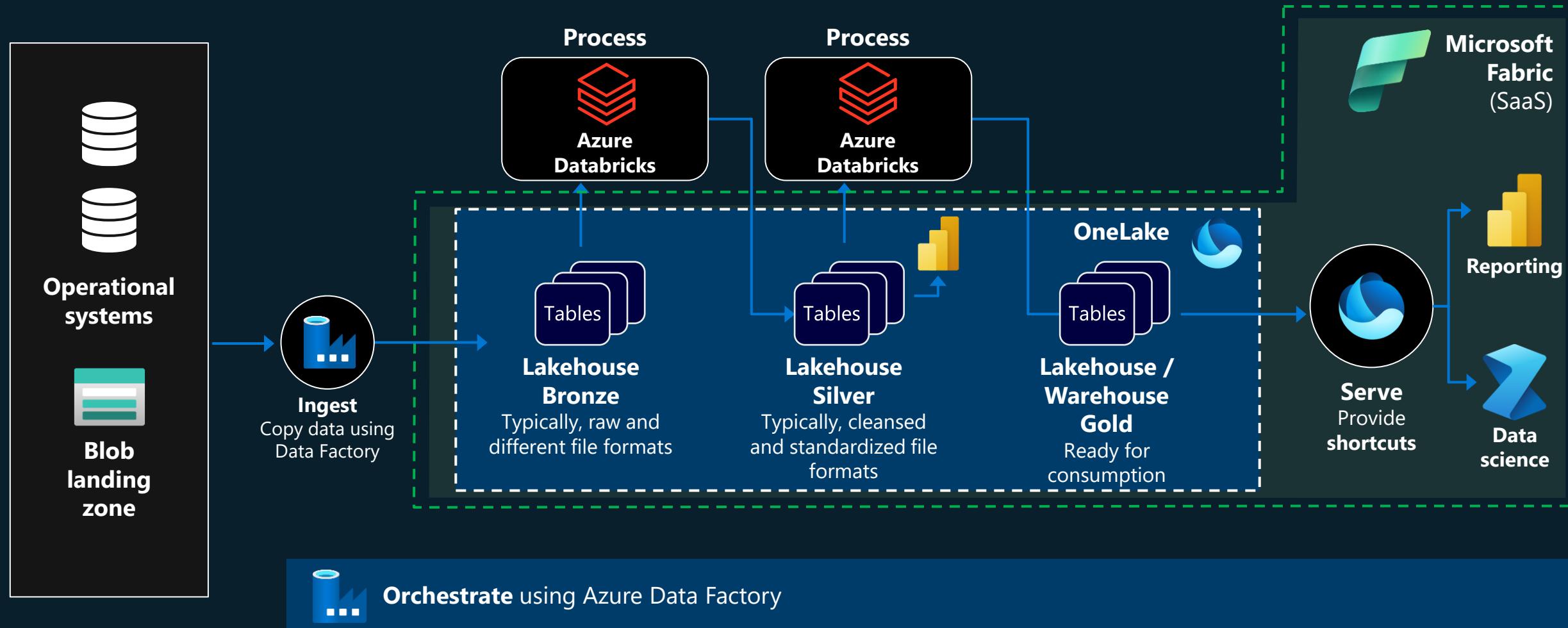
Lakehouse architecture – OneLake as Gold Layer

<https://learn.microsoft.com/en-us/fabric/onelake/onelake-azure-databricks>



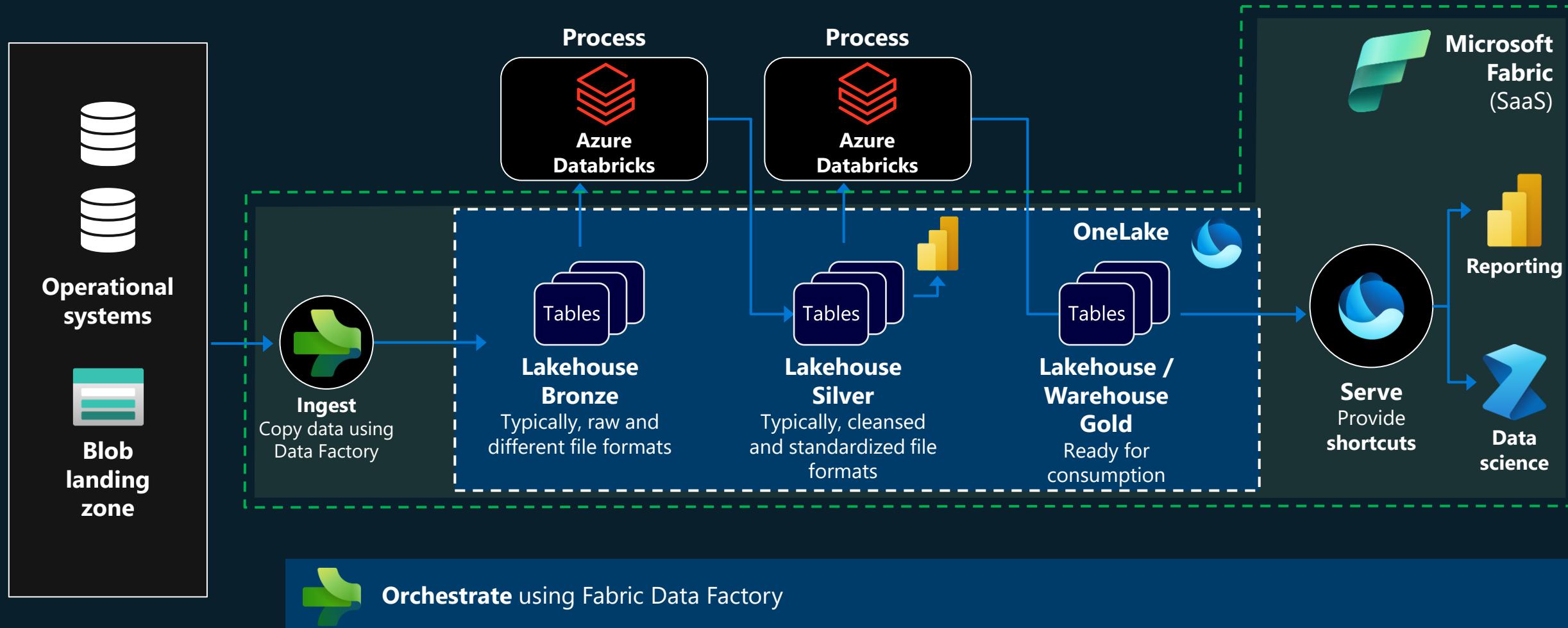
Store all Delta tables in OneLake

<https://learn.microsoft.com/en-us/fabric/onelake/onelake-azure-databricks>



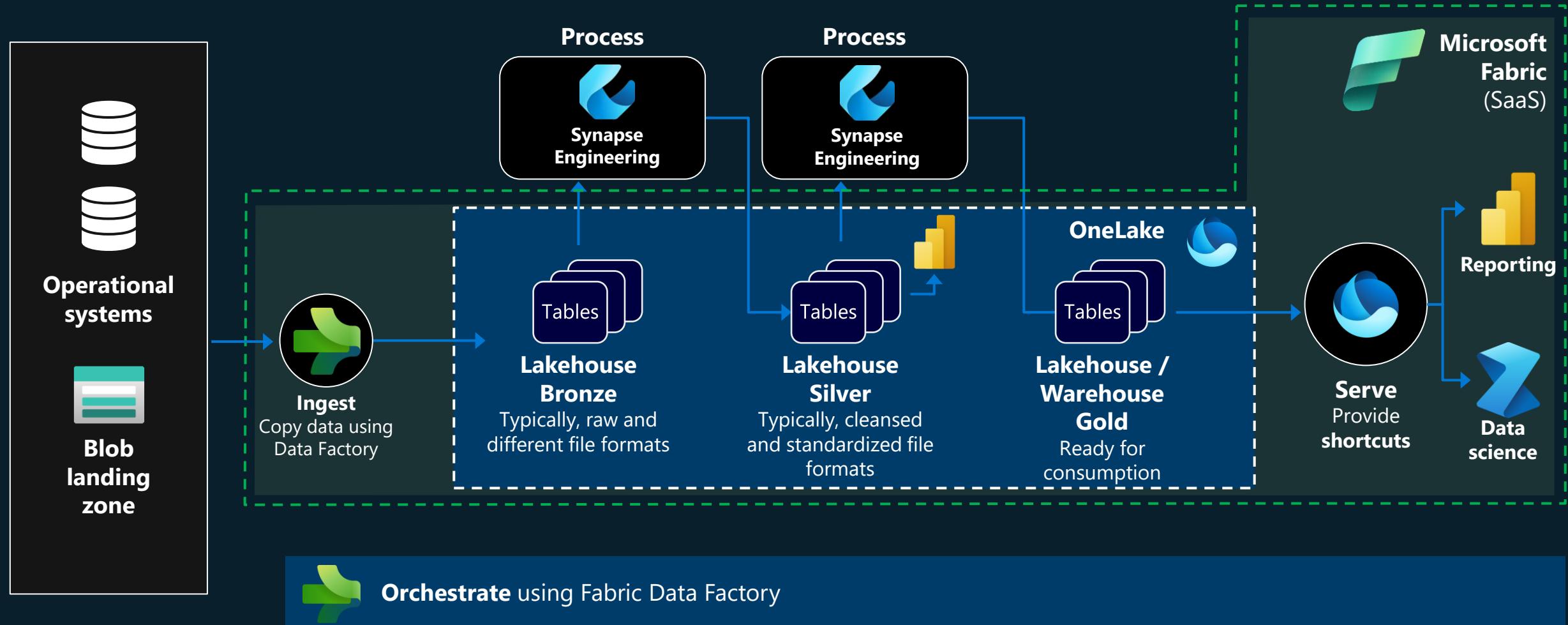
Store all Delta tables in OneLake – Orchestrate with FDF

<https://learn.microsoft.com/en-us/fabric/onelake/onelake-azure-databricks>



Store all Delta tables in OneLake

<https://learn.microsoft.com/en-us/fabric/onelake/onelake-azure-databricks>



What's Next for Azure Synapse Analytics?

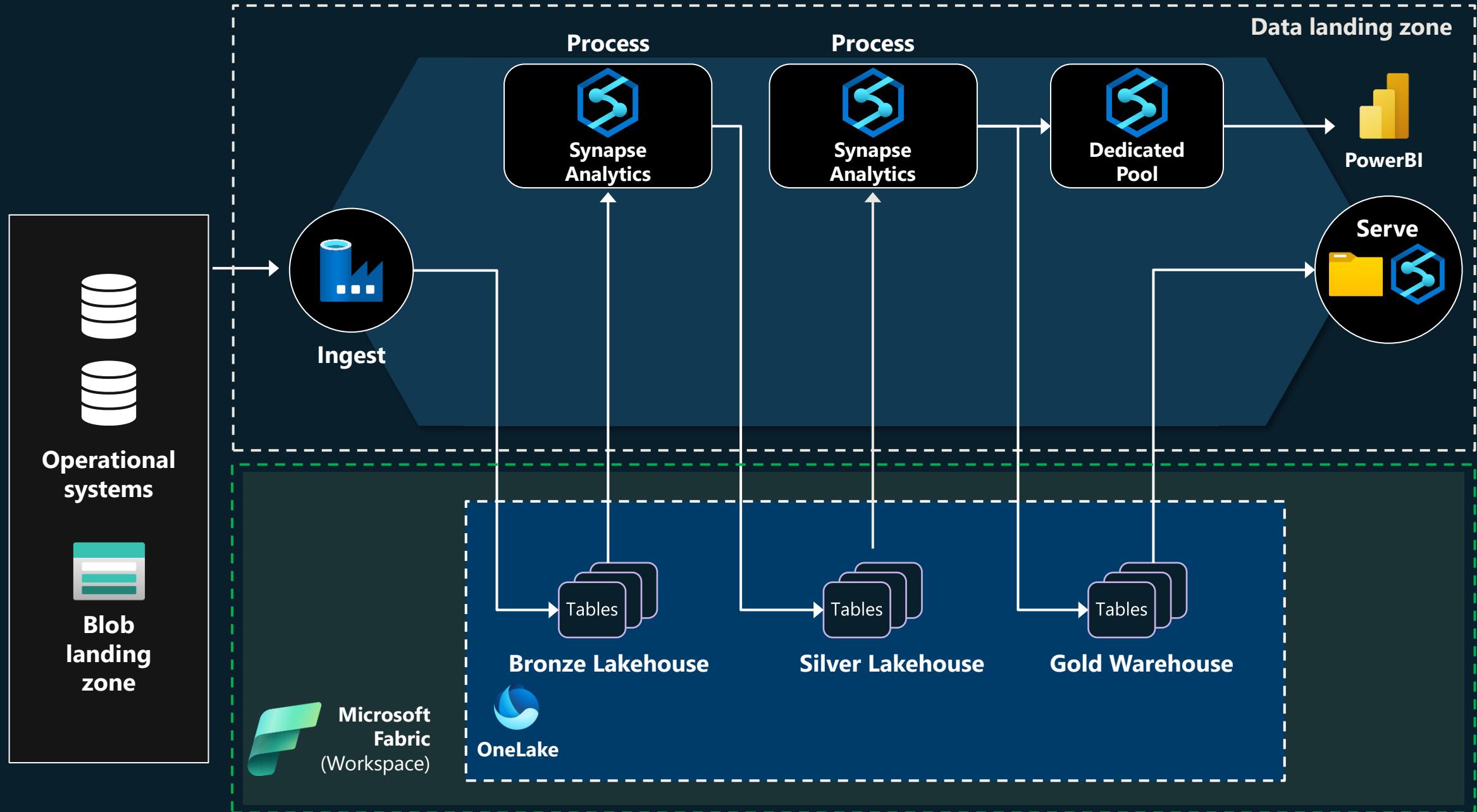


Microsoft Fabric

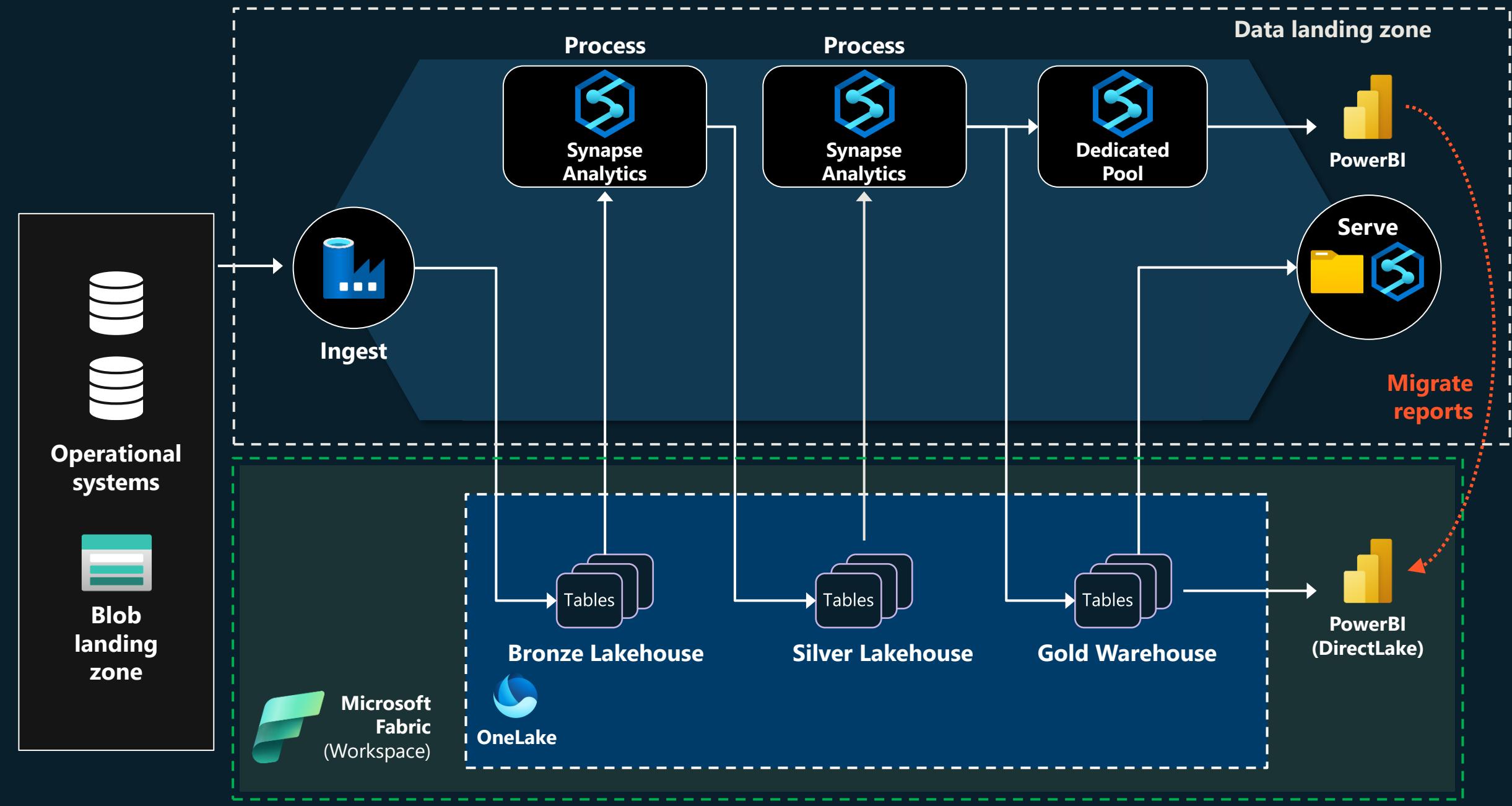


Azure Synapse Analytics

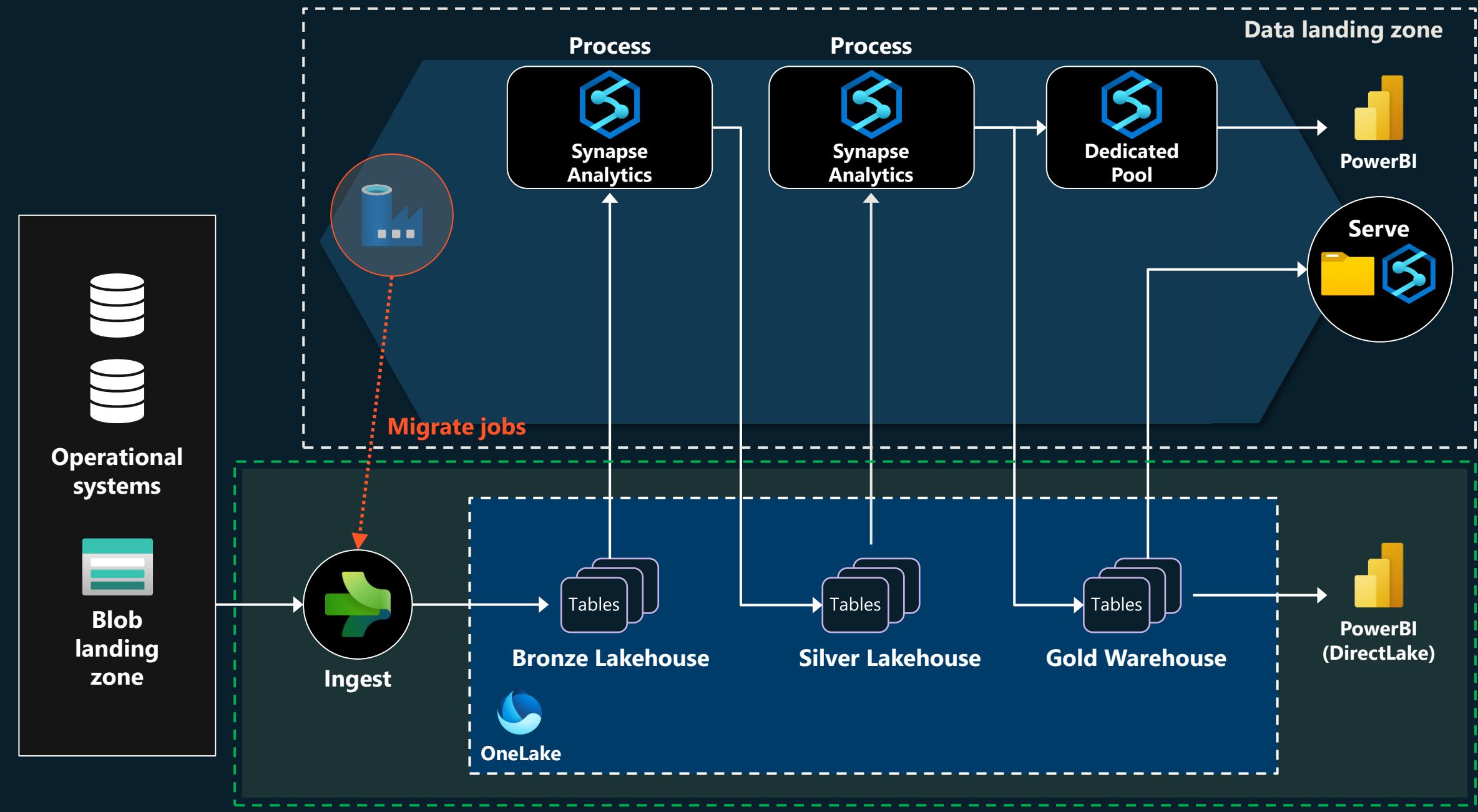
Step 1: Integrate Synapse Analytics with OneLake (migrate data)



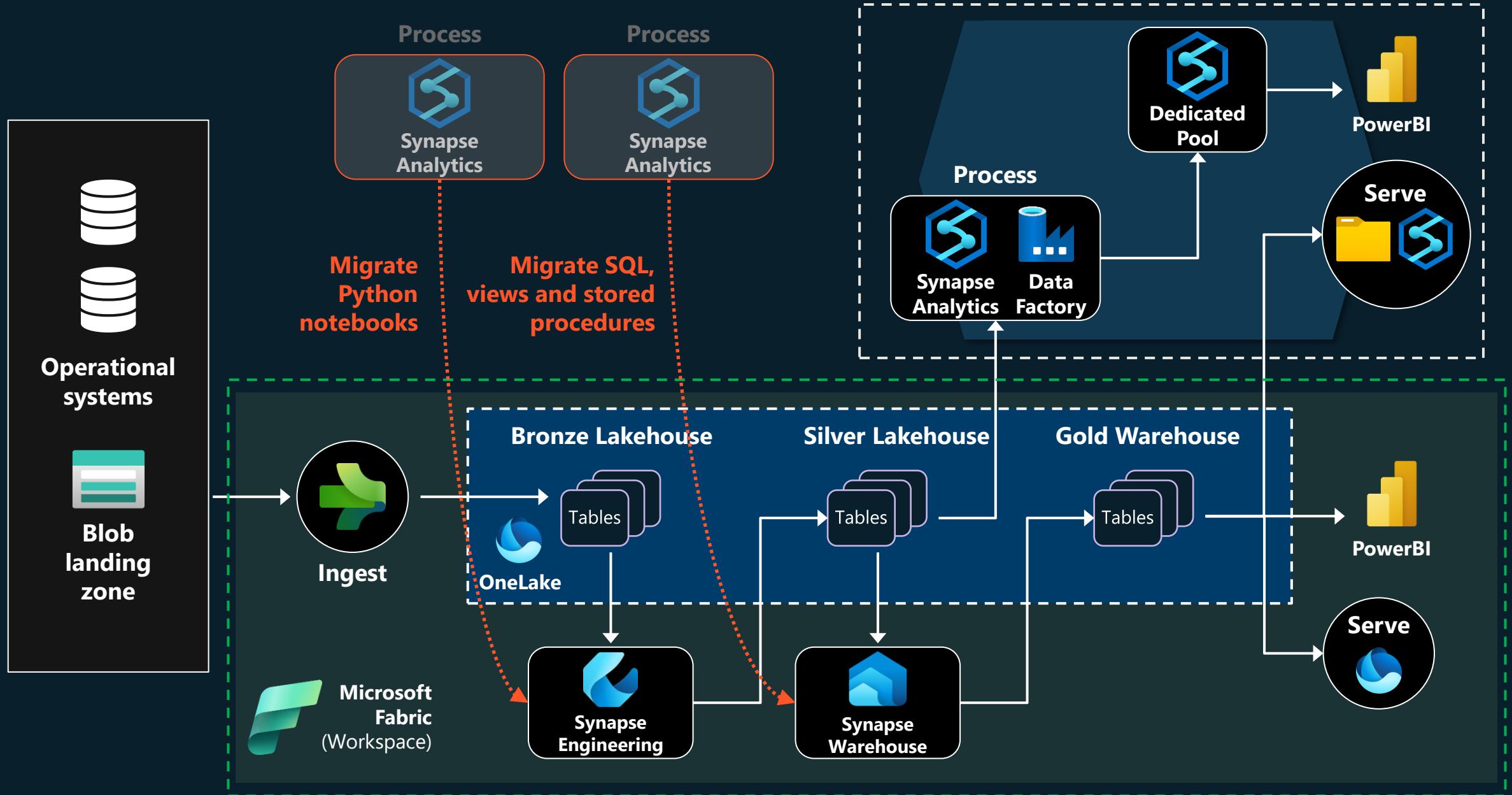
Step 2: Migrate first set of PowerBI reports



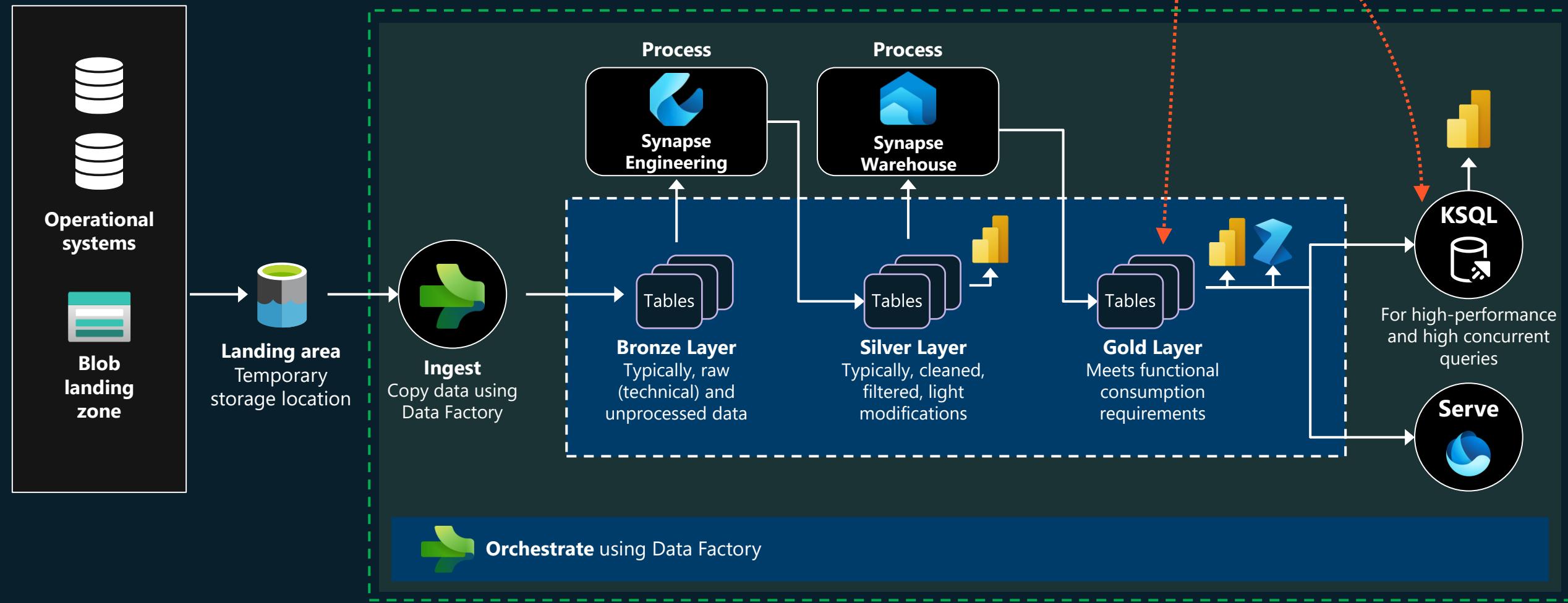
Step 3: Ingest (and some orchestration) with Fabric Data Factory



Step 4: Migrate Spark processing to Fabric



Step 5: Migrate Dedicated Pool workloads to Fabric



Considerations for migrating from Synapse

- Don't implement any new dedicated pools.
 - Migration scenarios and tooling will come. Migration will be done by attaching your existing Synapse workspace. All dedicated pool data then is replicated OneLake. Both will be kept in sync. Reporting and analytics can be moved over. You can scale down the DW units because Fabric is used. Move writes over to Fabric. Finally, redirect all queries.
- Check the Azure Data Factory/Synapse Pipeline feature parity. Mapping Dataflows (ADF/Synapse) is replaced with Data Flows Gen2 in Fabric. Migration scenarios will come (e.g., mounting, tooling).
- Serverless SQL: Works, however, Fabric does not support OPENROWSET. Instead use SQL Endpoints of Fabric Lakehouse (only Delta support).
- On Prem Data Gateways now support PBI and Data Factory. Different gateway options are now possible (on-prem data gateway, Vnet data gateway).

Explore the Fabric Roadmap

Rapid pace of innovation

The image displays three side-by-side screenshots of Microsoft Fabric blog posts, each featuring a large green circular overlay containing the text "Jul 2023", "Aug 2023", and "Sep 2023" respectively. The first screenshot shows the "Microsoft Fabric July 2023 Update" post, the second shows the "Microsoft Fabric August 2023 update", and the third shows the "Microsoft Fabric September 2023 update". Each post includes a video thumbnail titled "Fabric Monthly Update - July/August/September 2023" and a "Watch on YouTube" button.

aka.ms/FabricRoadmap

July 2023

Microsoft Fabric Blog

Blog > Announcements > Microsoft Fabric July 2023 Update

Microsoft Fabric July 2023 Update

Announcements Apache Spark Core Data Activator Data Factory Data Science Data Warehouse Monthly Update OneLake Real-time Analytics Synapse

August 9, 2023 by Ryan Majidimehr

Welcome to the July 2023 update. We have features in Core, Synapse, Data Factory, Data Warehouse, and Power BI.

Fabric Monthly Update - July 2023

Watch later Share

Watch on YouTube

Contents

Microsoft Fabric Blog

Blog > June 2023 > Microsoft Fabric August 2023 update

Microsoft Fabric August 2023 update

Announcements Apache Spark Core Data Activator Data Factory Data Science Data Warehouse Monthly Update OneLake Real-time Analytics Synapse

August 9, 2023 by Ryan Majidimehr

Welcome to the August 2023 update. We have lots of exciting new features including the recently announced switcher for Power BI, SSD caching in Synapse Data Warehouse, in-line Python support for KQL in Synapse Real-time Analytics, lookup activity for Data Factory Dataflows, and much more. Continue reading for more details on our new features!

Fabric Monthly Update - August 2023

Watch later Share

Watch on YouTube

Contents

Microsoft Fabric Blog

Blog > All > Microsoft Fabric September 2023 update

Microsoft Fabric September 2023 update

Announcements Apache Spark Community Core Data Factory Data Science Data Warehouse Monthly Update OneLake Real-time Analytics Synapse

September 12, 2023 by Ryan Majidimehr

Welcome to the September 2023 update.

We have lots of features this month including updates to the monitoring hub, Fabric Metrics app, VS code integration for Data Engineering, Real-time data sharing and many more. Continue reading for more details on our new features!

Contents

- Core
 - Monitoring hub – column options
- OneLake
 - OneLake file explorer (v.1.0.10) – Menu Option to View Workspaces and Items Online
- Power BI
 - General
 - Upgrade Power BI Desktop .NET Framework to 4.7.2 or newer
 - Reporting



Unlock more value from your data with Microsoft Fabric

Q/A

Discovery Days – April 17th 2024