Trond Brande

Senior Manager

- Senior Manager Data & AI

- 10+ years @ Microsoft – Principal CSA Data & AI

- Passionate about:
  - Data Architecture and Analytics
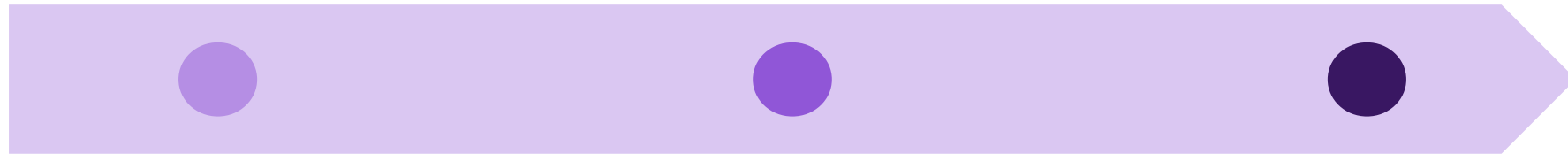 - Wine

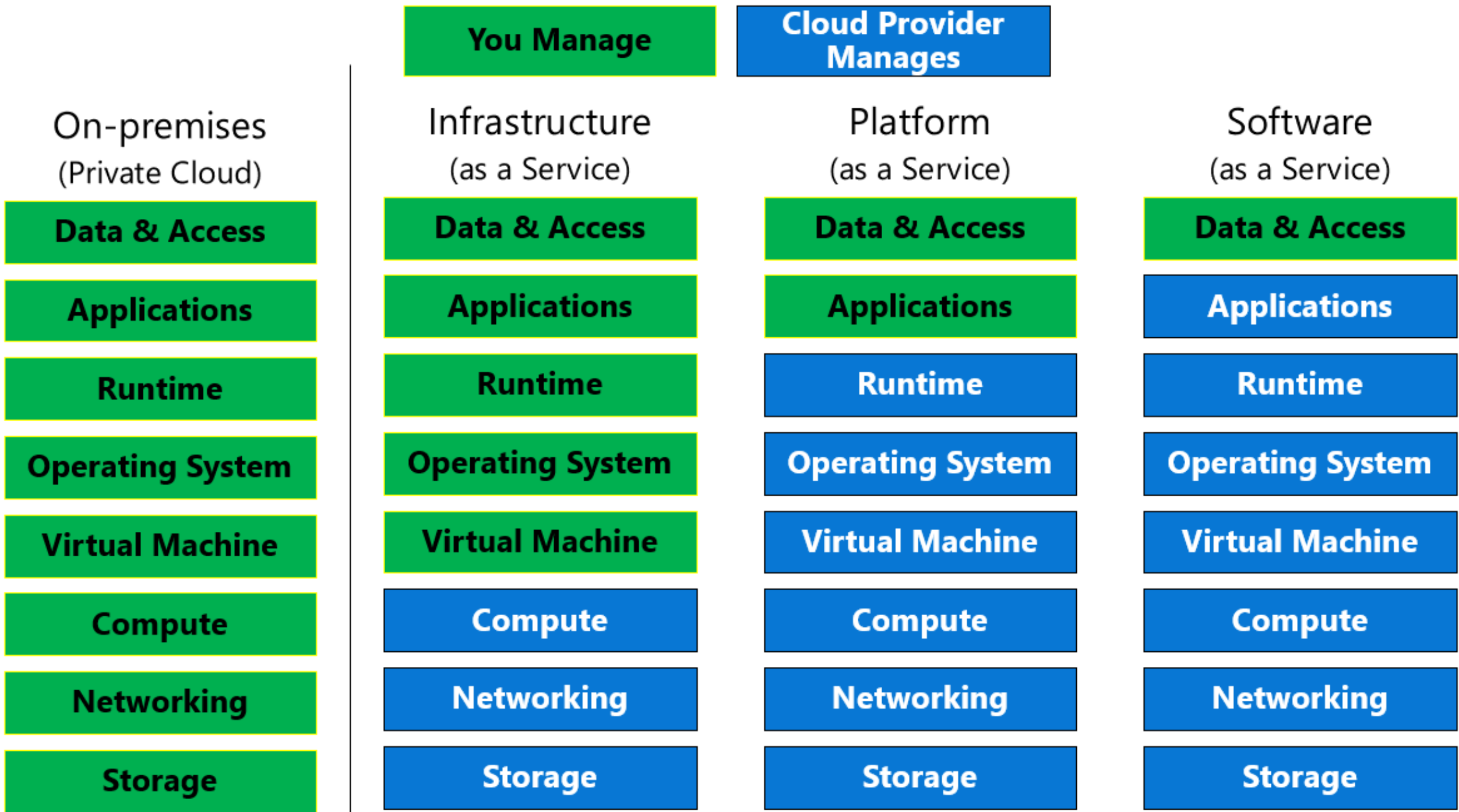**in** /trondbrande

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What will we go through?

What is Microsoft Fabric?

Your future?

Demo

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	You Manage	Cloud Provider Manages	

On-premises (Private Cloud)	Infrastructure (as a Service)	Platform (as a Service)	Software (as a Service)
Data & Access	Data & Access	Data & Access	Data & Access
Applications	Applications	Applications	Applications
Runtime	Runtime	Runtime	Runtime
Operating System	Operating System	Operating System	Operating System
Virtual Machine	Virtual Machine	Virtual Machine	Virtual Machine
Compute	Compute	Compute	Compute
Networking	Networking	Networking	Networking
Storage	Storage	Storage	Storage

What happened?

Why is Fabric so revolutionary?
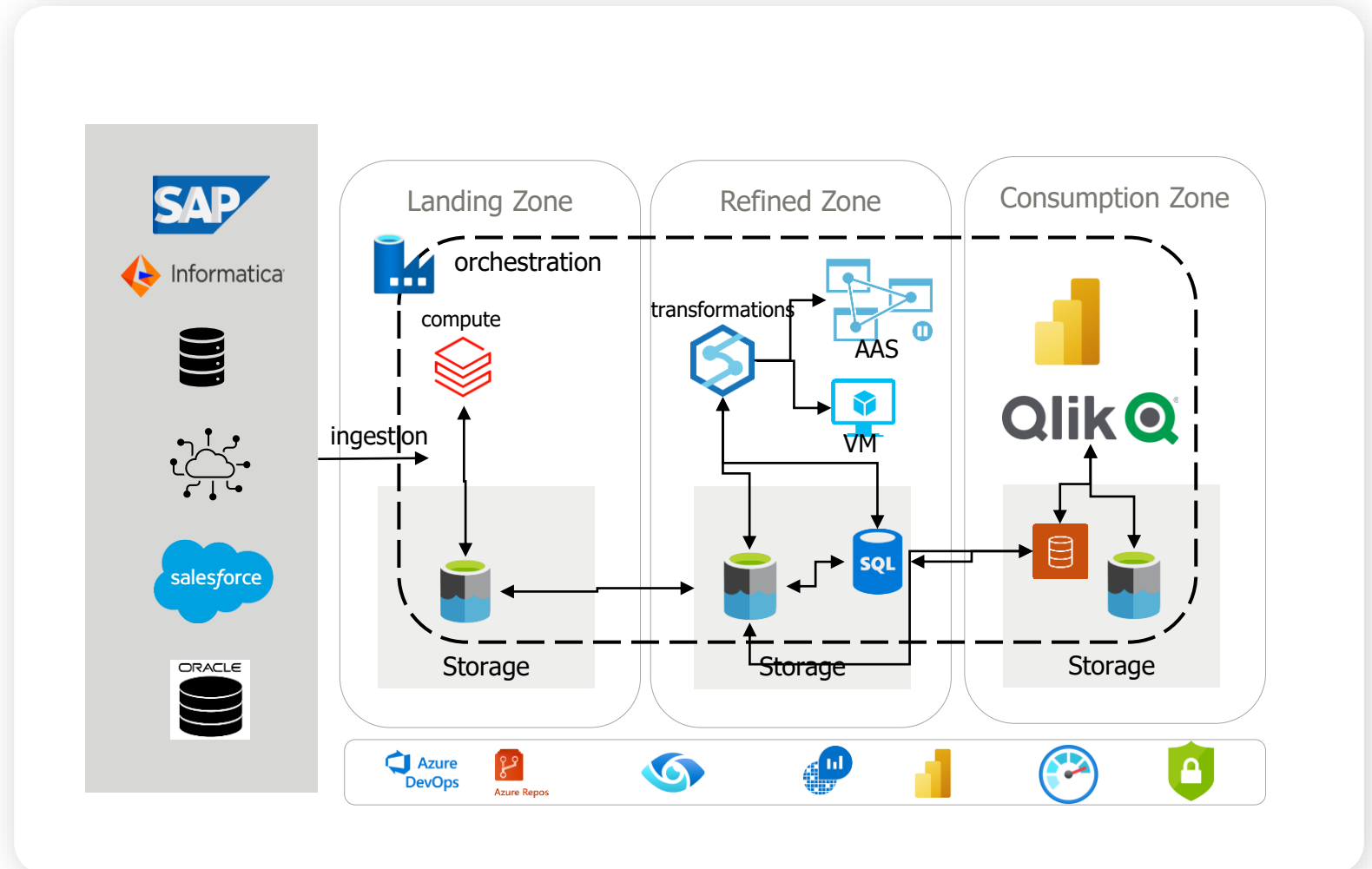
Challenges

Multiple tools and vendors

Multiple storage areas

Integration at scale is complex

Governance and monitoring is complex

Multiple specific technical skills are required

Duplicates and multiple versions

What happened?

Why is Fabric so revolutionary?
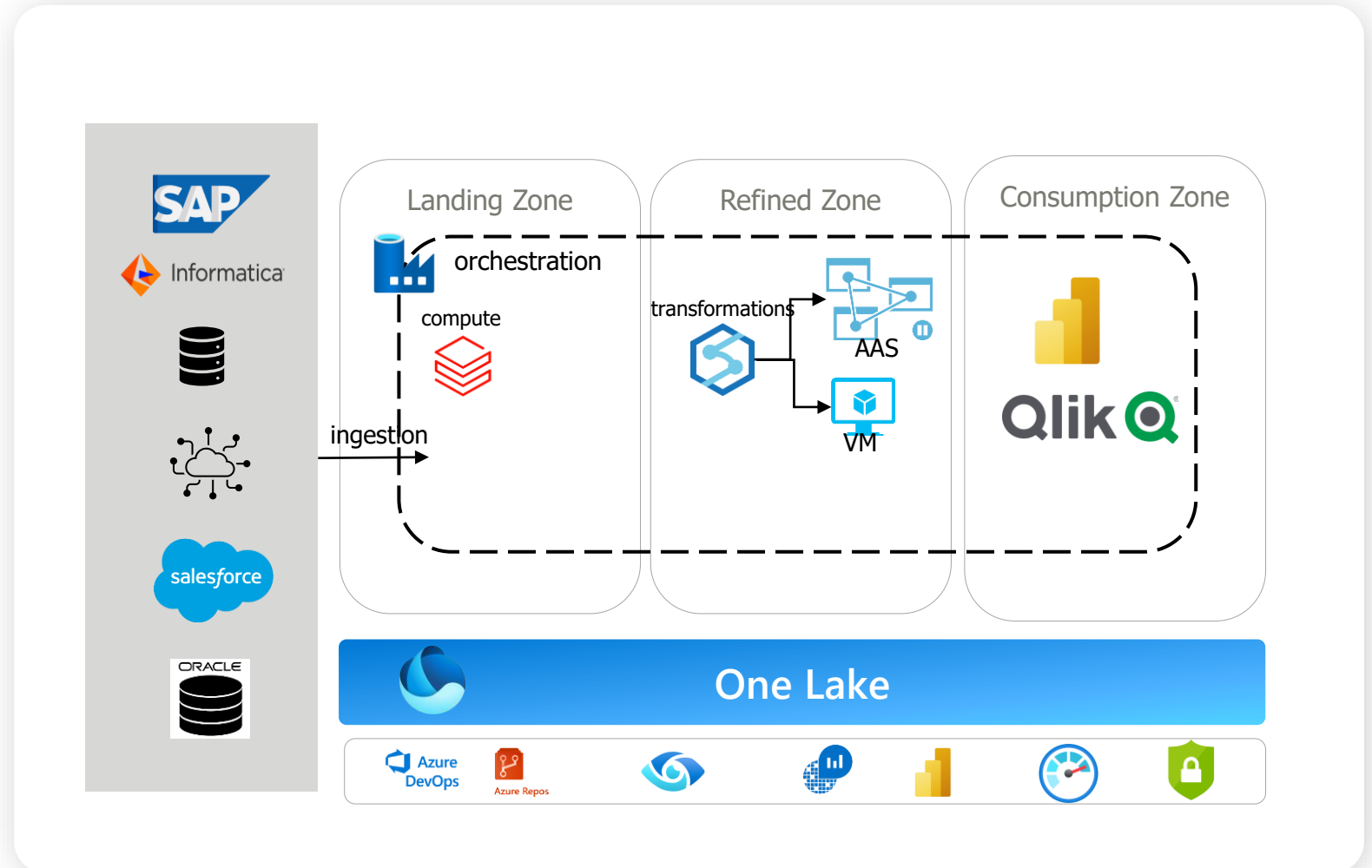
Benefits

Multiple tools and vendors

One Lake for all your data

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~~Duplicates and multiple versions~~

What happened?

Why is Fabric so revolutionary?

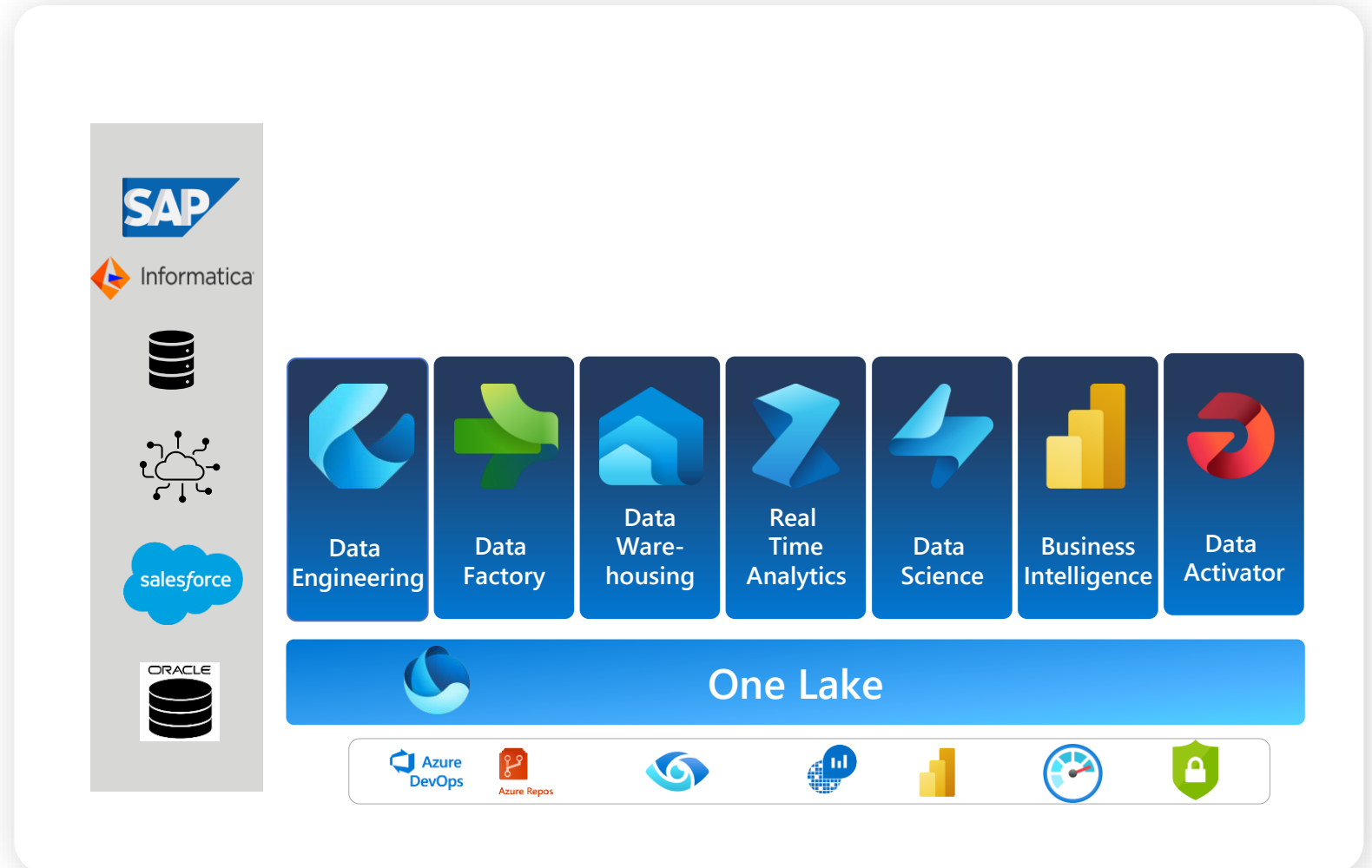## Benefits

Single vendor toolkit

One Lake for all your data

Fully integrated by default

Governance and monitoring is complex

Collaboration experience

Flexible technical skills

What happened?

Why is Fabric so revolutionary?

Benefits

Single vendor toolkit

One Lake and One Copy

Fully integrated by default

Centralized administration and governance across all experiences

Collaboration experience

Flexible technical skills

Data Engineering	Data Factory	Data Ware-housing	Real Time Analytics	Data Science	Business Intelligence	Data Activator

One Lake

Security

Governance and Administration

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What happened?

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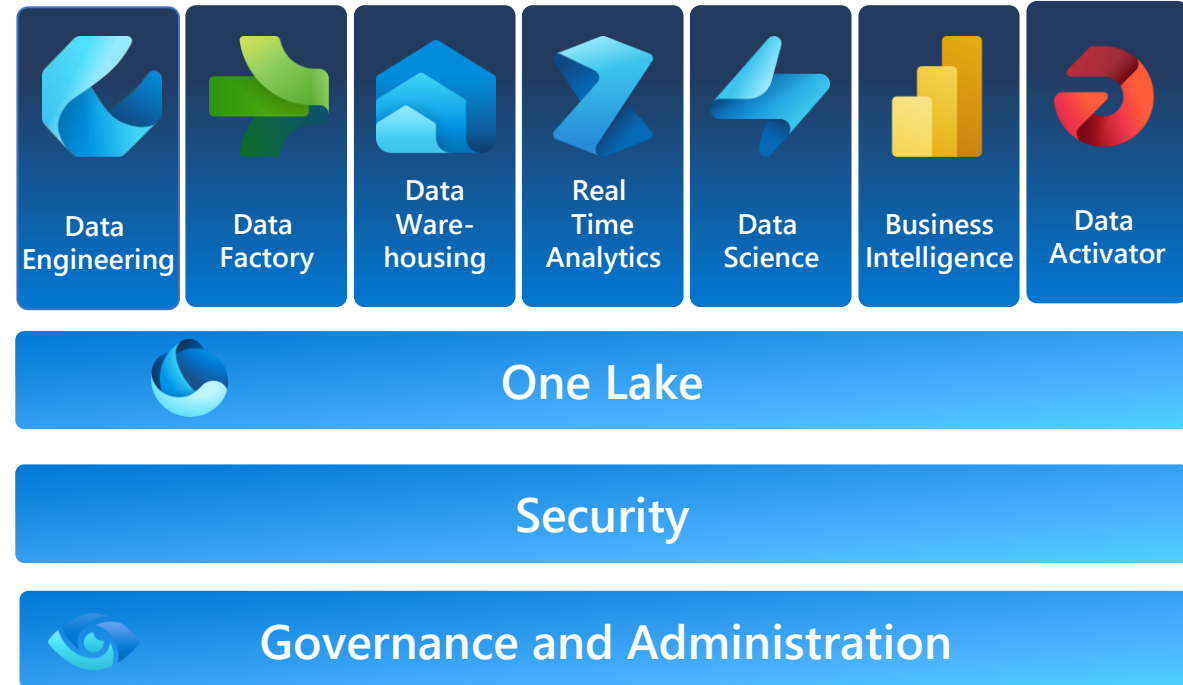
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Security

Governance and Administration

AI Assisted

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What is Microsoft Fabric?

Data Engineering	Data Factory	Data Ware-housing	Real Time Analytics	Data Science	Business Intelligence	Data Activator

One Lake

Security

Governance and Administration
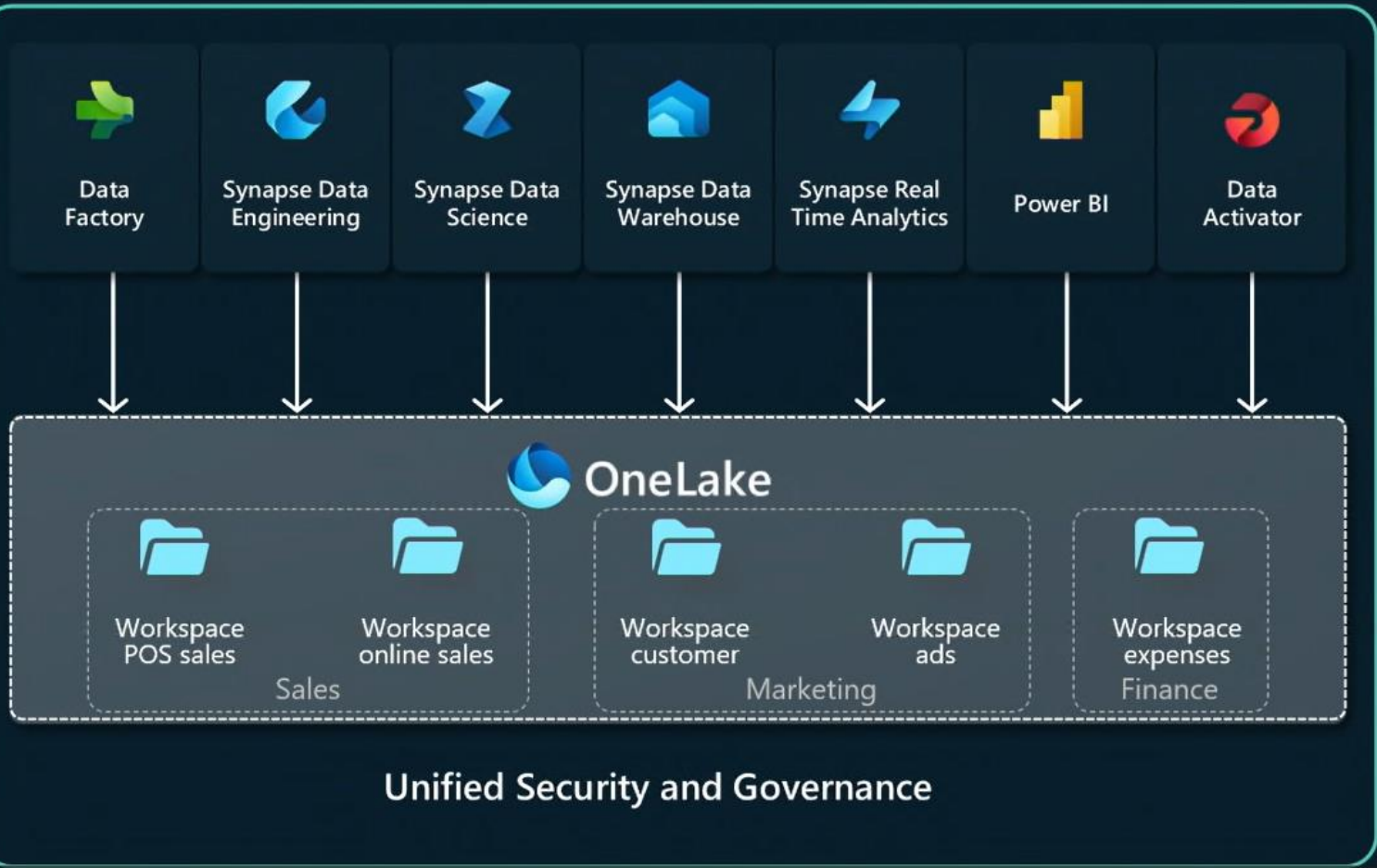
AI Assisted

Software as a Service (SaaS)

All-in-one analytics solution
- Data movement
- Data storage
- Data science
- Real-Time Analytics
- Business intelligence
- Data Governance
- Data Security

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What is Microsoft Fabric?

Key features

One Lake

Introducing domains as an integral part of Fabric: A domain is a way to logically group together all the data in an organization relevant to an area or field, according to business needs.

Domains are defined with domain admins and contributors who can associate workspaces and group them together under a relevant domain.

Federated governance can be achieved by delegating settings to domain admins, thus allowing them to achieve more granular control over their business area.

Domains simplify discovery and consumption of data across the organization, thus allowing business optimized consumption.

Avoid data swamps by endorsing certain data as certified or promoted, thus encouraging reuse.
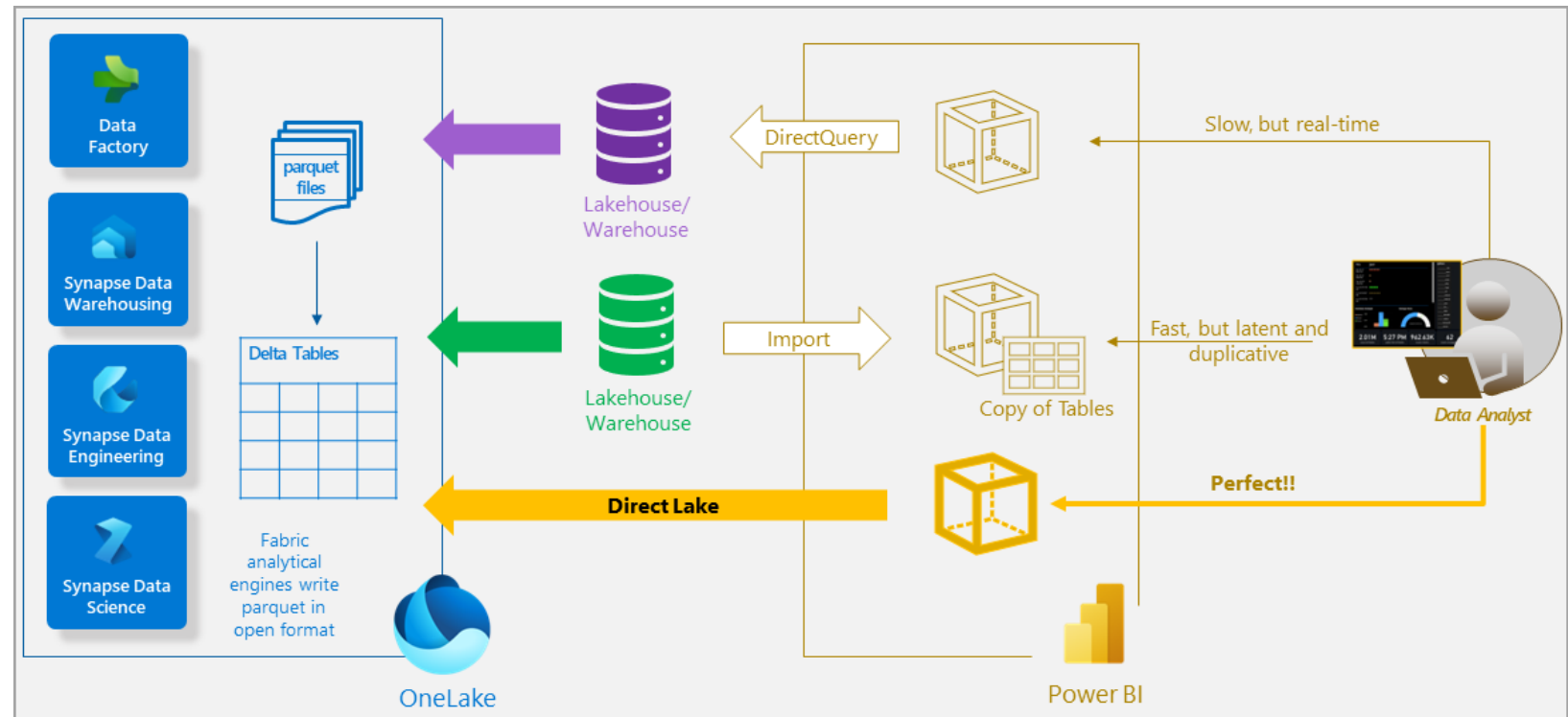
Creating Data Gravity in OneLake

What is Microsoft Fabric?

Key features

One Lake
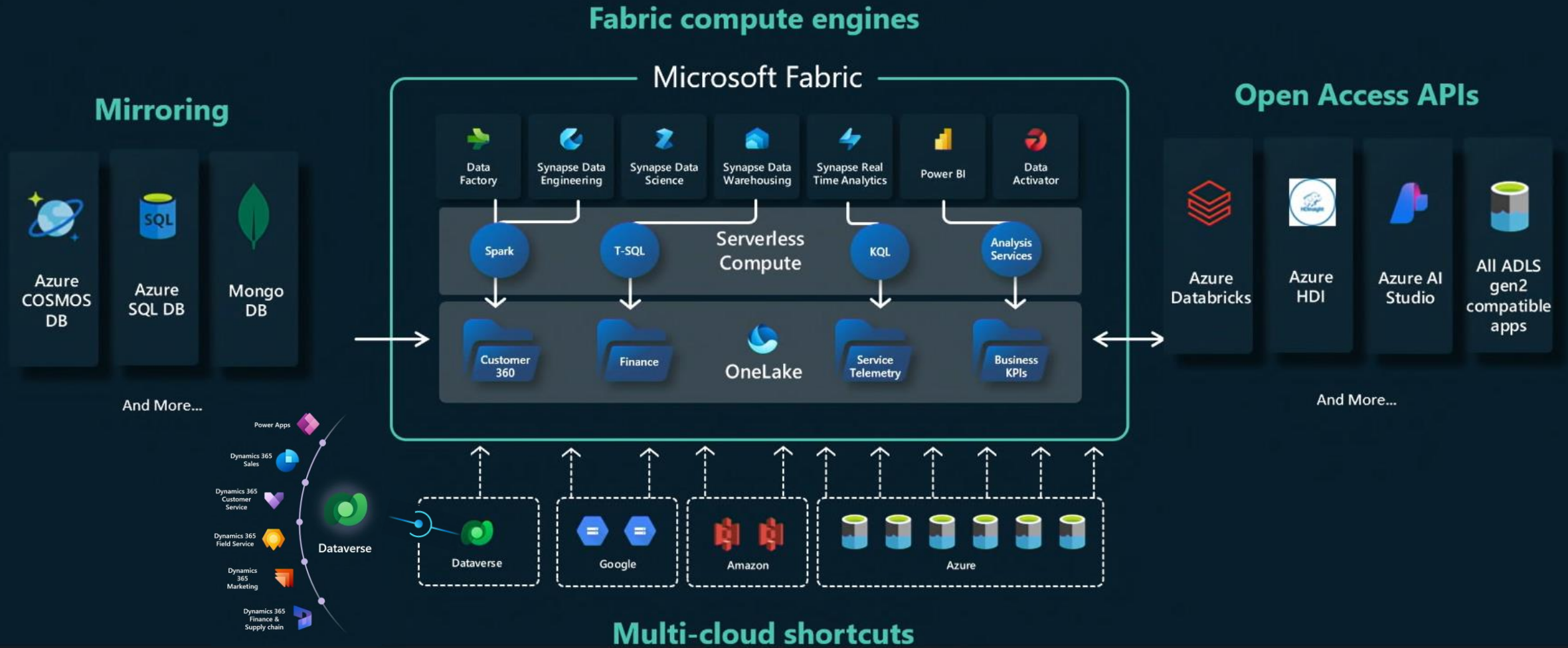
Direct Lake is based on loading parquet-formatted files directly from a data lake without having to query a Lakehouse endpoint, and without having to import or duplicate data into a Power BI dataset.


Data Factory

Synapse Data Warehousing

Synapse Data Engineering

Synapse Data Science

parquet files

Delta Tables

Fabric analytical engines write parquet in open format

OneLake

Lakehouse/ Warehouse — DirectQuery

Lakehouse/ Warehouse — Import — Copy of Tables

Direct Lake

Power BI

Slow, but real-time

Fast, but latent and duplicative

Perfect!!

Data Analyst

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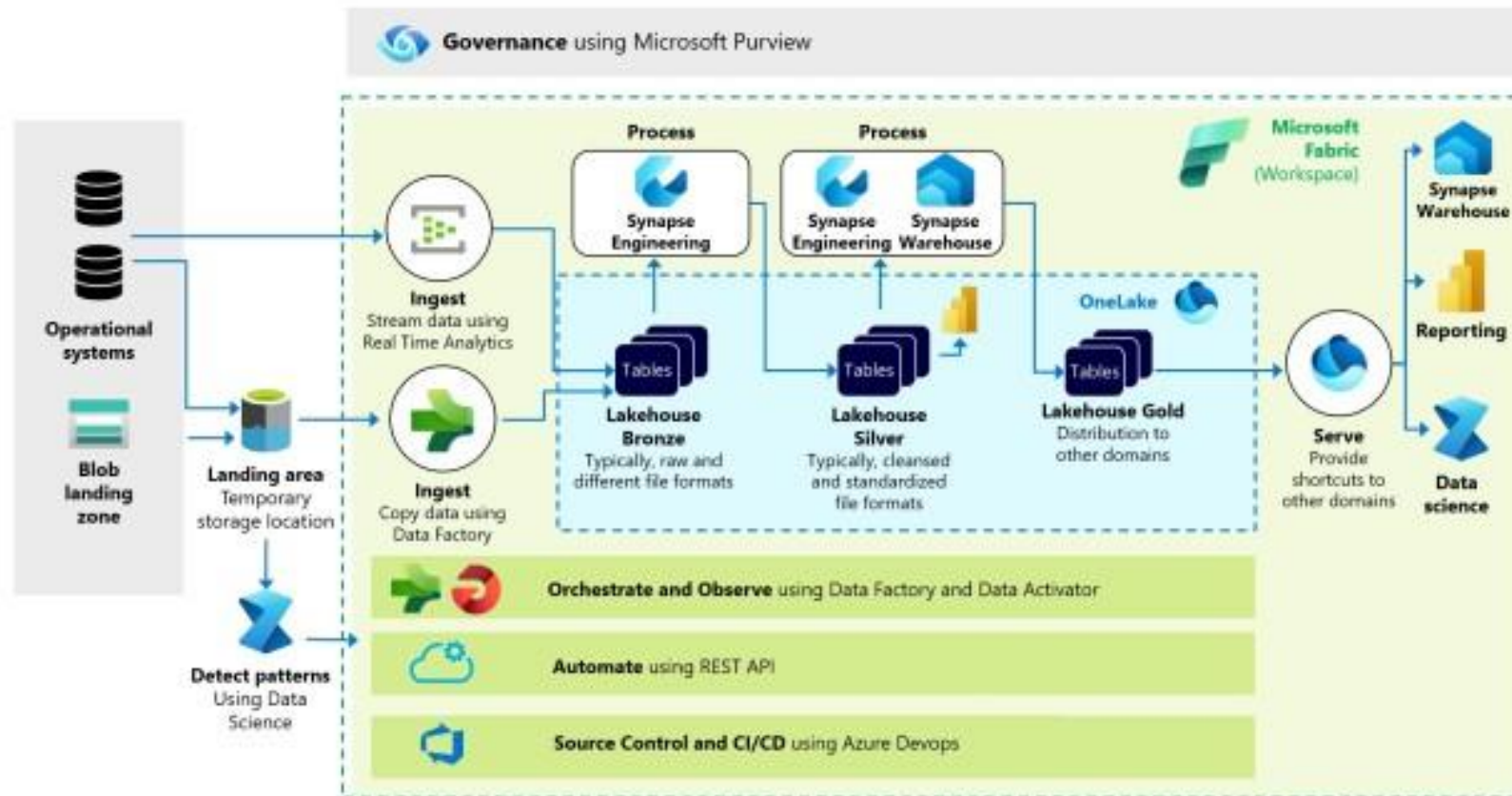# What is Microsoft Fabric?

Key features

One Lake	Copilot

- **Power BI**
  - Create reports
  - Create calculations and measures

- **Azure Data Factory**
  - Create pipelines

- **Synapse Data Warehousing and notebooks**
  - Code suggestion
  - Clean-up and document code

- **And everywhere else...**
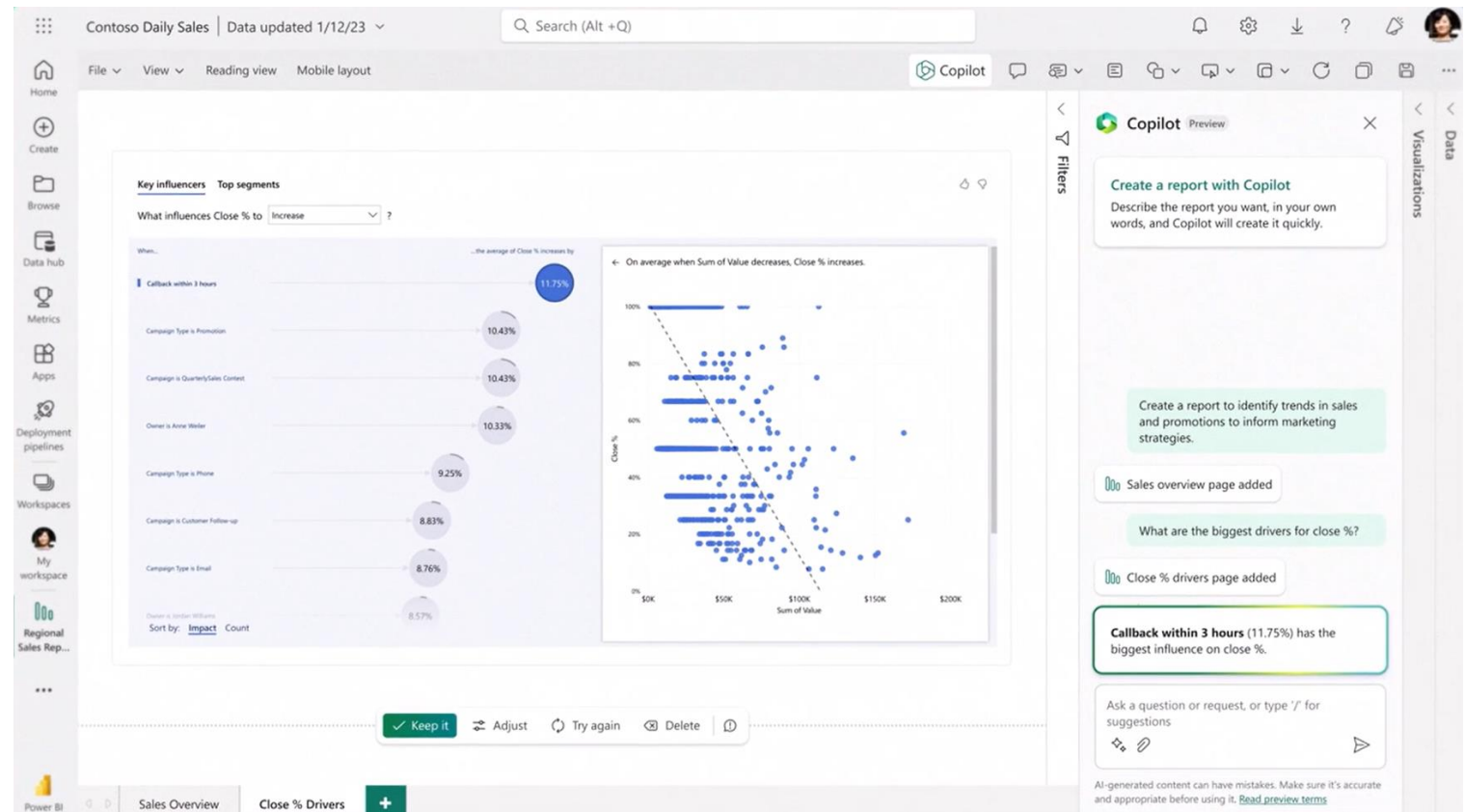
Fabric Demo – Short version

Demo

- OneLake Explorer
- Files vs Tables
- Notebooks
- Dataflow Gen 2
- PBI integration
  - Data | Query | Model

- Dataverse

- Real-time Analytics with
  - Data Activator

Do you see Microsoft Fabric in your future?

Q&A

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