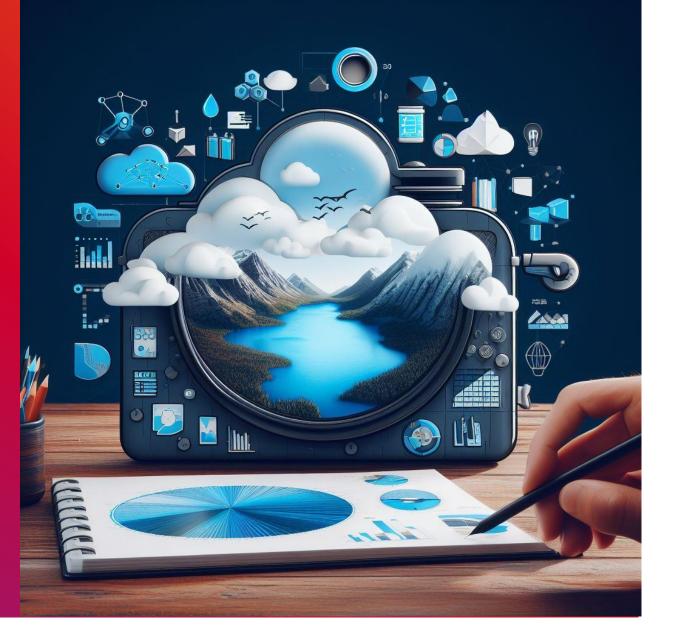
# Microsoft Fabric Er dette fremtiden for dataanalyse?

DynUG 22. november Marthe Moengen og Trond Brande





The world is how we shape it



### y @mmoengen

data-ascend.com

in /marthemoengen

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### Marthe Moengen Managing Data Analyst

- Data Saturday Oslo
- MDPUG Norway
- Fabric February
- WITs Who Lunch Oslo
- Data Architecture
- Data Governance, Data Catalogs, MDM
- When not geeking
  - Outdoors
  - Trad climbing and skiing





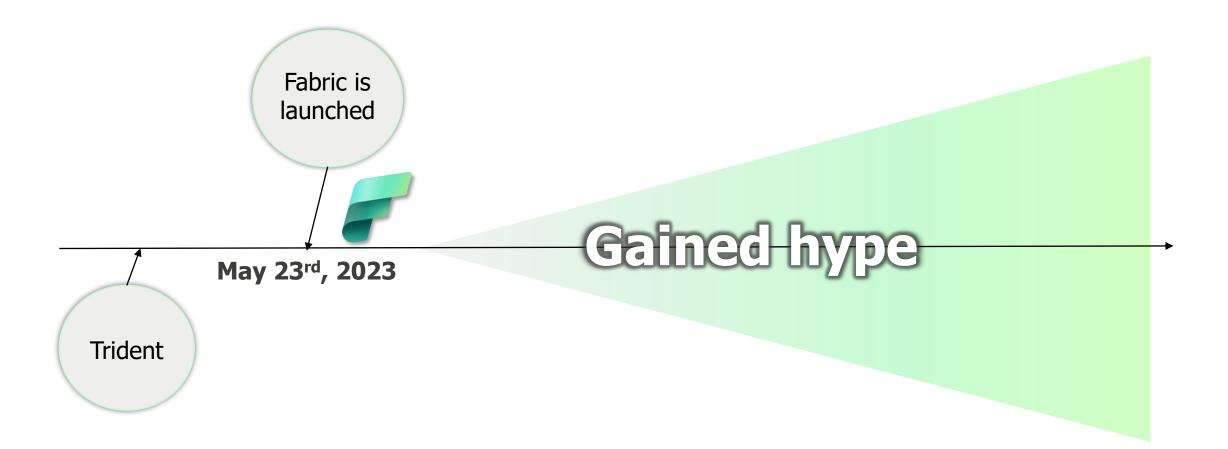
# Trond Brande

Senior Manager

- 10 years @ Microsoft
- Data Architecture and Analytics
- When not geeking about Analytics
- Geeking about wine



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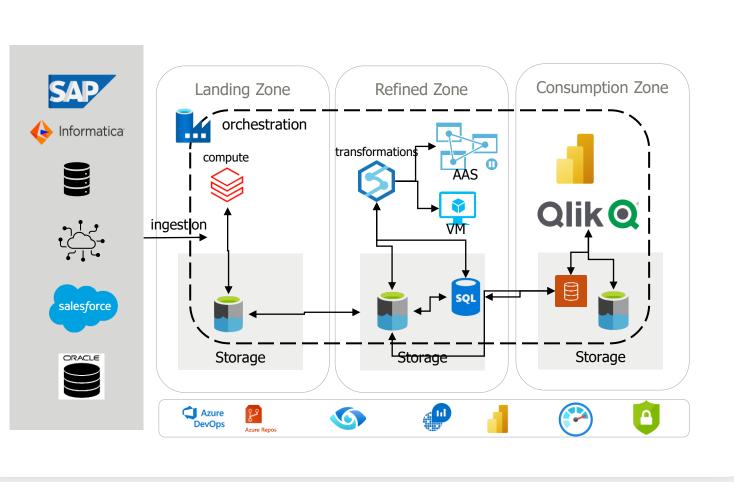


### All-in-one analytics solution for enterprises From the data source to the business user



Why is Fabric so revolutionary?

**AS IS before Fabric** 





Why is Fabric so revolutionary?

### Challenges

Multiple tools and vendors

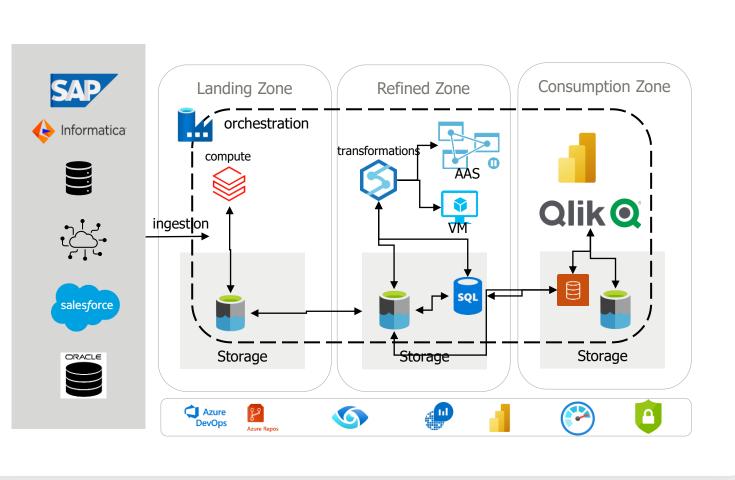
Multiple storage areas

Integration at scale is complex

Governance and monitoring is complex

Multiple specific technical skills are required

Duplicates and multiple versions





10

Why is Fabric so revolutionary?

### **Benefits**

Multiple tools and vendors

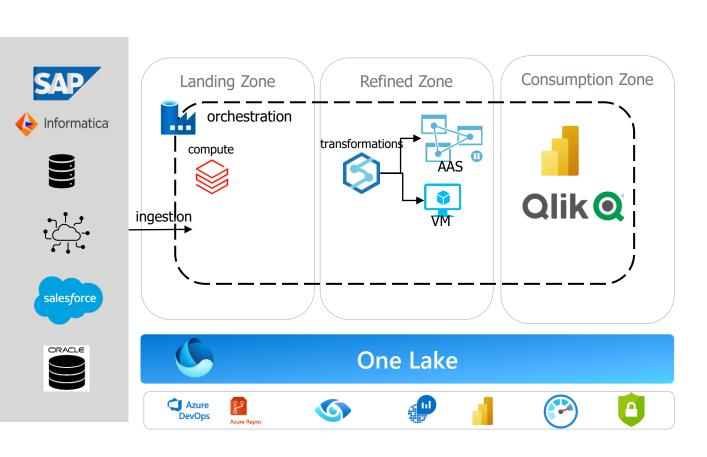
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Why is Fabric so revolutionary?

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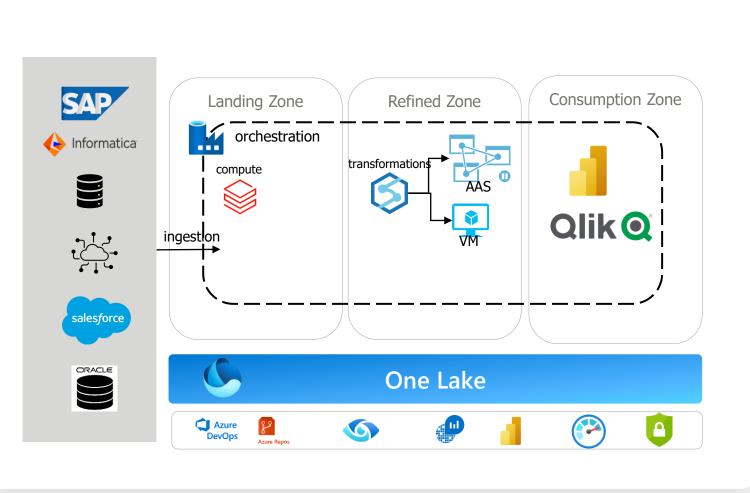
#### One Lake for all your data

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Why is Fabric so revolutionary?

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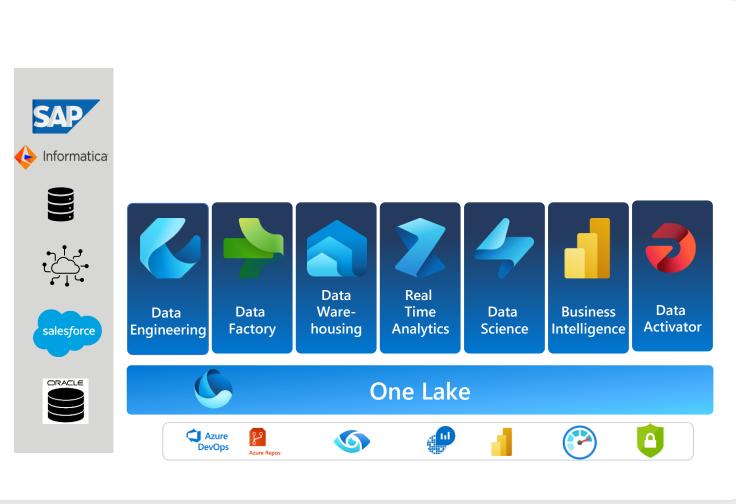
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Why is Fabric so revolutionary?

### **Benefits**

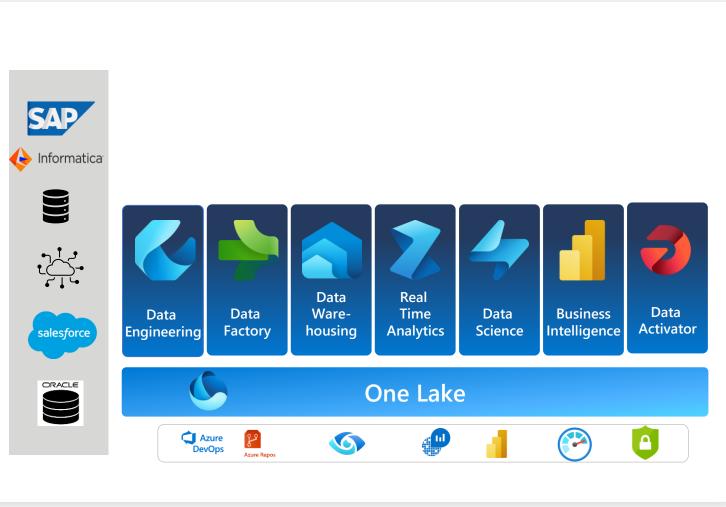
Single storage format

One Lake for all your data

Fully integrated by default

Governance and monitoring is complex

**Collaboration experience** 





Why is Fabric so revolutionary?

### **Benefits**

Single storage format

**One Lake and One Copy** 

Fully integrated by default

Governance and monitoring is complex

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Why is Fabric so revolutionary?

### **Benefits**

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Centralized administration and governance across all experiences

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Why is Fabric so revolutionary?

### **Benefits**

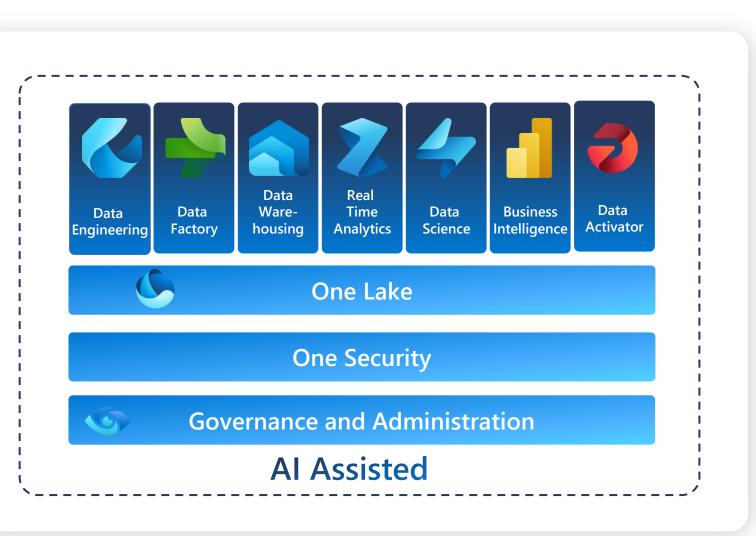
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**Collaboration experience** 





### What is Microsoft Fabric?





# 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



### What is Microsoft Fabric?



#### Key features



#### **OneLake** = OneDrive for data

← → ✓ ↑ → OneLake - Microsoft (Preview) → trbran → firstlh.Lakehouse → ✓ C Search firstlh.Lakehouse →					house 🔎
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	🔁 WarehouseSystem	6	6/22/2023 9:04 AM	File folder	
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### What is Microsoft Fabric?

#### Key features



**Shortcuts** are objects in OneLake that point to other storage locations.

#### Home Home > sample | Containers > sampledata -ි 🕸 🛱 Get data 🗸 🔛 New Power BI dataset 📄 Open notebook 🗸 Container Search (Ctrl+/) ↑ Upload + Add Directory 🕐 Refresh A SQL endpoint for SQL querying and a default dataset for reporting were created and will Overview Authentication method: Access key (Switch to Az Explorer « Location: sampledata / demo / Transaction Files > Transaction Diagnose and solve problems ✓ SampleLakehouse Search blobs by prefix (case-sensitive) Access Control (IAM) Name > 🗋 Tables Settings Name Δ ✓ ☐ Files Transaction 1.csv Shared access tokens 🗌 📒 [..] Local Data > Campaign A Manage ACL ß Transaction 2.csv Transaction\_1.csv Shortcut to ADLS 🔸 🗸 🔚 Transaction Access policy ••• Transaction\_2.csv Transaction\_3.csv Properties Transaction\_3.csv Metadata

#### Fabric Lakehouse

#### Resolved Shortcut Location

ADLS Gen2 Account

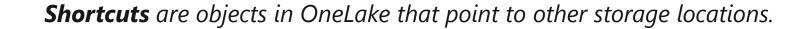


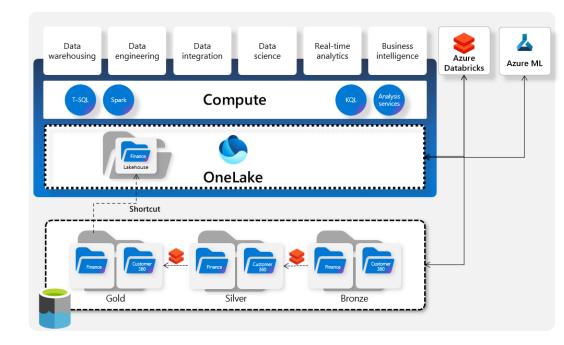
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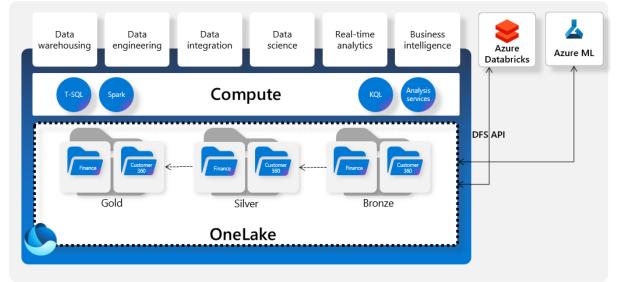
### What is Microsoft Fabric?

Key features

One Lake









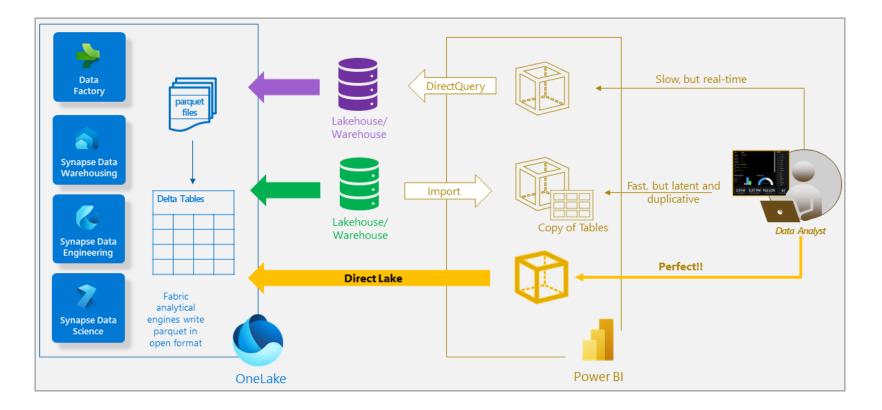
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## What is Microsoft Fabric?

### **Direct Lake** is based on loading parquetformatted 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.

One Lake

**Key features** 





### What is Microsoft Fabric?

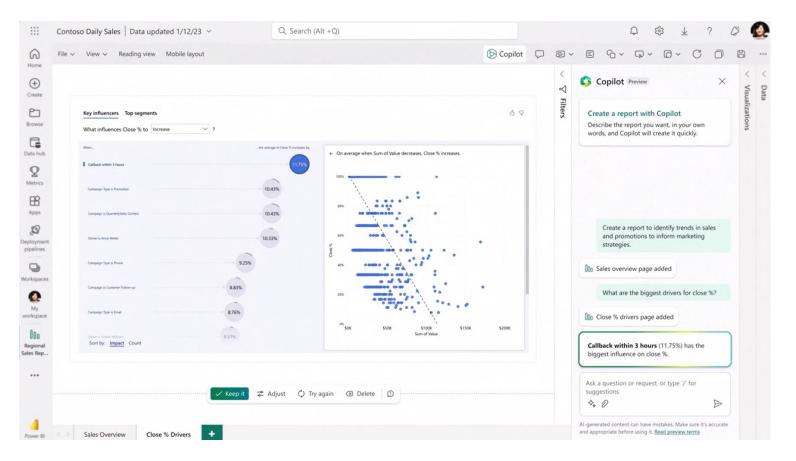


#### Key features

Sone Lake

### Copilot

- Power Bl
  - Create reports
  - Create calculations and measures
- Azure Data Factory
  - Create pipelines
- Synapse Data Warehousing and notebooks
  - Code suggestion
  - Clean-up and document code

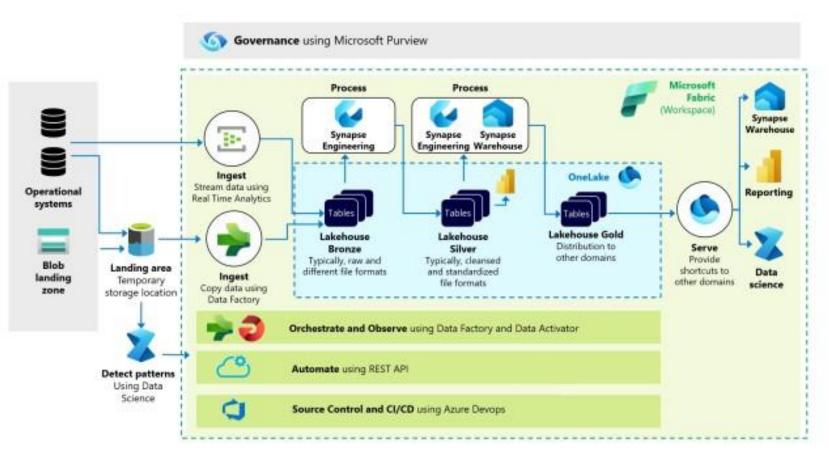








### All Up – Fabric Demo



#### Demo

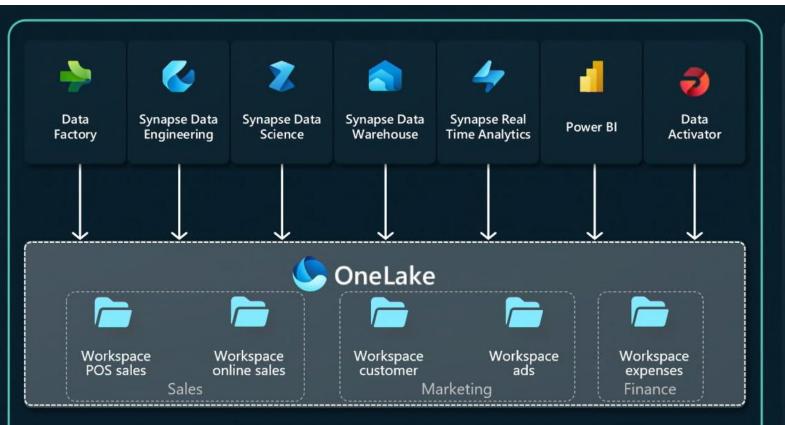
- OneLake Explorer
- Notebooks
- Files vs Tables
- Dataflow Gen 2
- PBI integration
- Dataverse
- Eventstream
- Kusto/Data Explorer
- Shortcuts
- Data Activator

### What is Microsoft Fabric?



#### Key features





#### Unified Security and Governance

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.

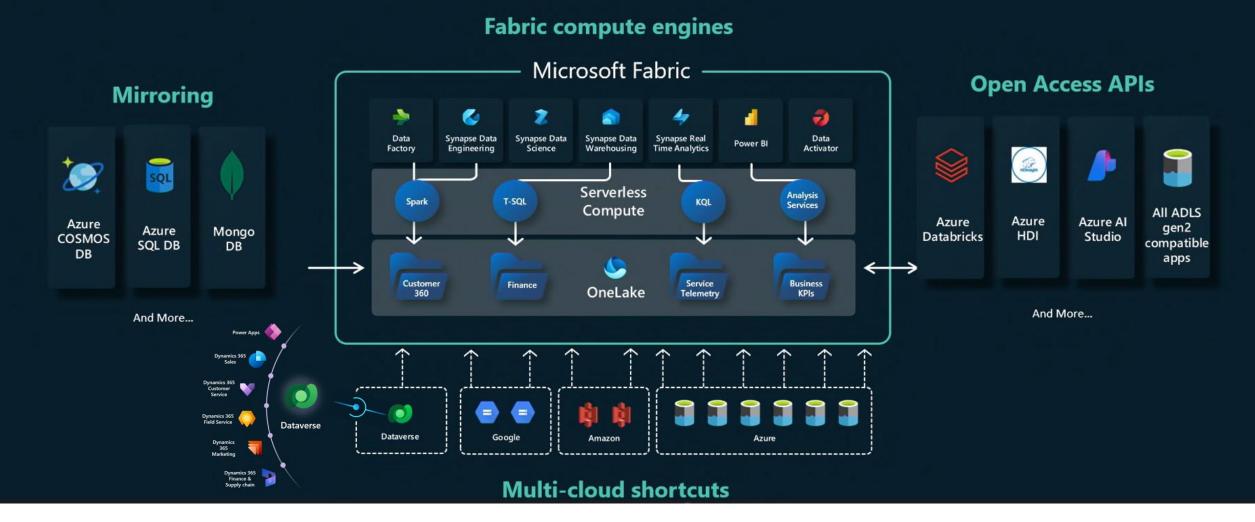
Federated governance can be achieved by delegating settings to domain admins, thus allowing them to achieve more granular control over their business area.

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**







### How can we be ready?



### What drives revolutionising technology?





### How can we be ready?



### ... it is not easy

We had these trends...





### ... it is not easy

#### Now we have these







Avoid vendor lock-in

### **Easy integration**



Data Mesh Data Products

**Data Fabric** 



# What are we learning from the last technological change?



New standards Delta Parquet Python and SQL Databricks ADF Copilot Git integration



### **Test it!**





# What do we know about the future?

By 2024, enterprises that primarily build applications leveraging a data and analytics (D&A) **ecosystem from a single cloud service provider** will outperform competitors, despite vendor lock-in

Gartner, Inc.

By 2024, 50% of new system deployments in the cloud will be based on a **cohesive cloud data ecosystem** rather than on manually integrated point solutions.

Gartner, Inc.



# What do we know about the future?

MDM is a necessary business initiative. Treated as a technology initiative in isolation invariably leads to failure.

Gartner, Inc.

By 2026, 5% of workers will routinely use AI against their employer's wishes to complete tasks.

Gartner, Inc.



### So, is Microsoft Fabric worth the hype?







### **Trond Brande**

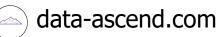
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# Thank you!

### **Marthe Moengen**



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