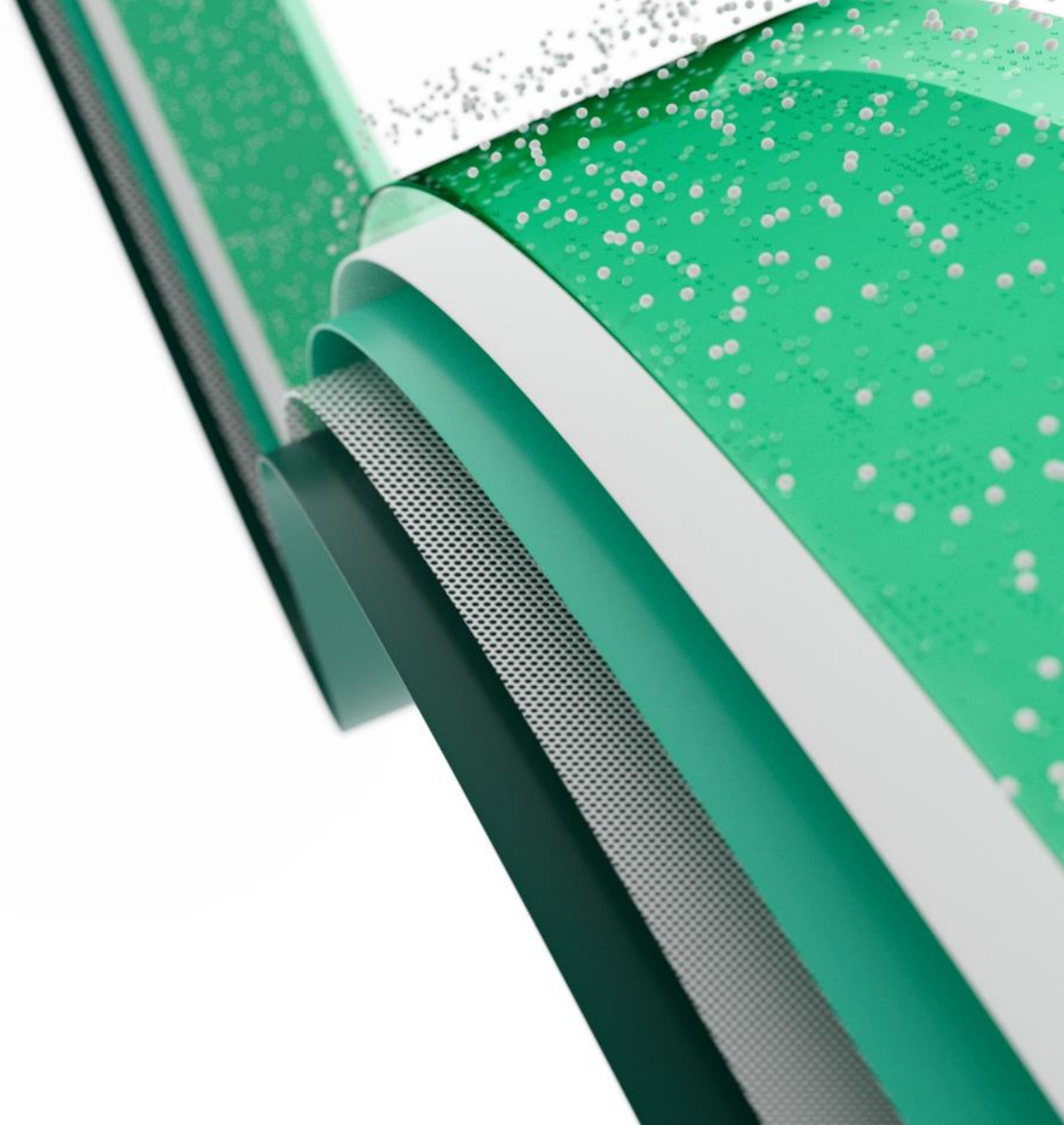
Microsoft

Microsoft Fabric

A unified analytics solution for the era of AI



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What we're hearing from our customers

Today's data and analytics challenges

Balancing the need for data access and self-service analytics while remaining governed

Breaking down data siloes across the organization into a unified source of truth

Limited scalability of legacy solutions as data demand rises exponentially

Delivering on the promise of analytics with limited resources

2

Introducing the new Microsoft Fabric solution

Introducing Microsoft Fabric

Microsoft Fabric enables you to manage your data in one place with a suite of analytics experiences that work together seamlessly, including:

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

Available Now

Public preview

- Data Factory
- Synapse Data Engineering
- Synapse Data Science
- Synapse Data Warehousing
- Synapse Real Time analytics
- Copilot for Power BI (DAX)
- OneLake

Generally available

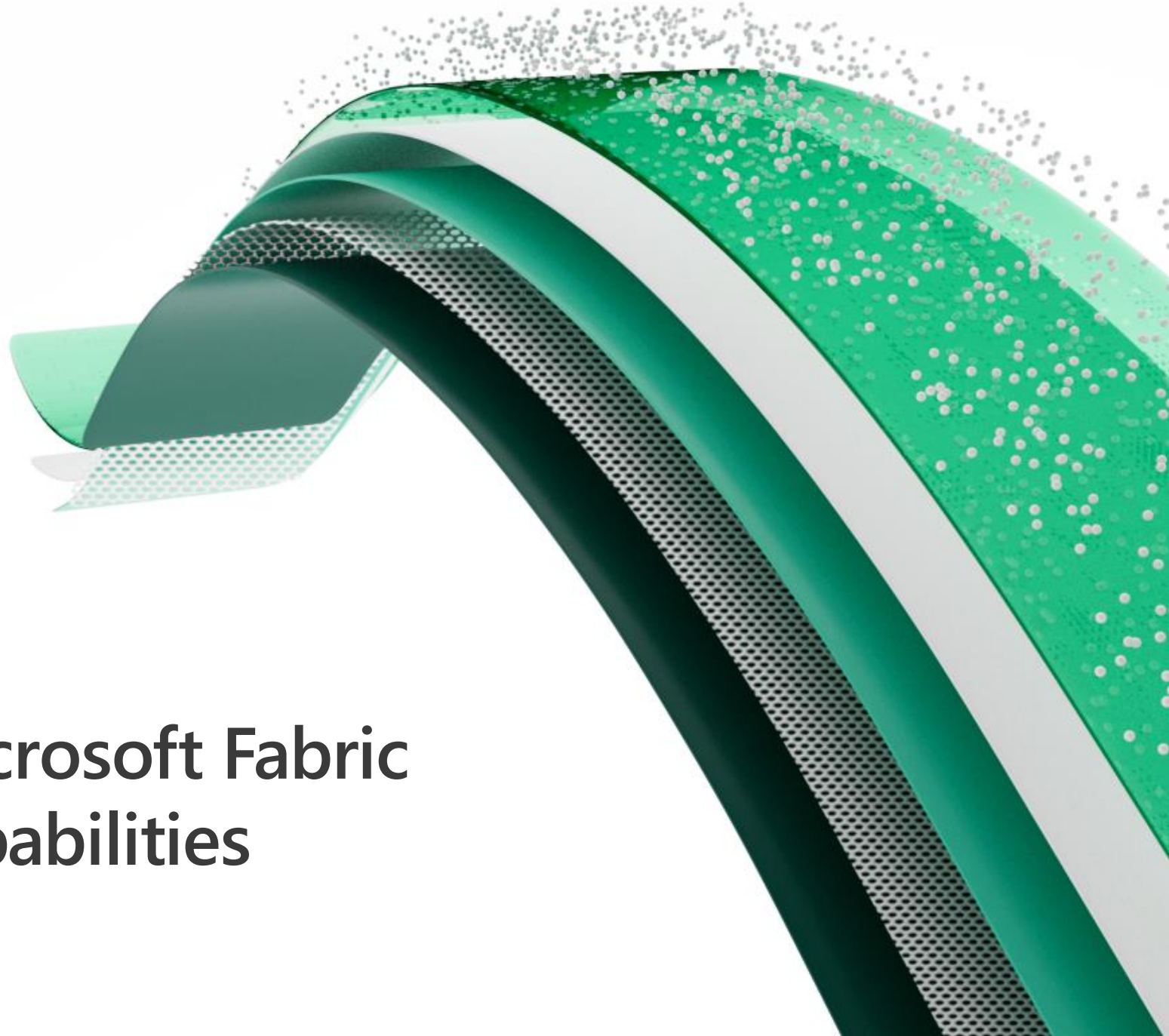
- Power BI

Private Preview

- Data Activator
- Copilot for Microsoft Fabric
- Copilot for Power BI (full)

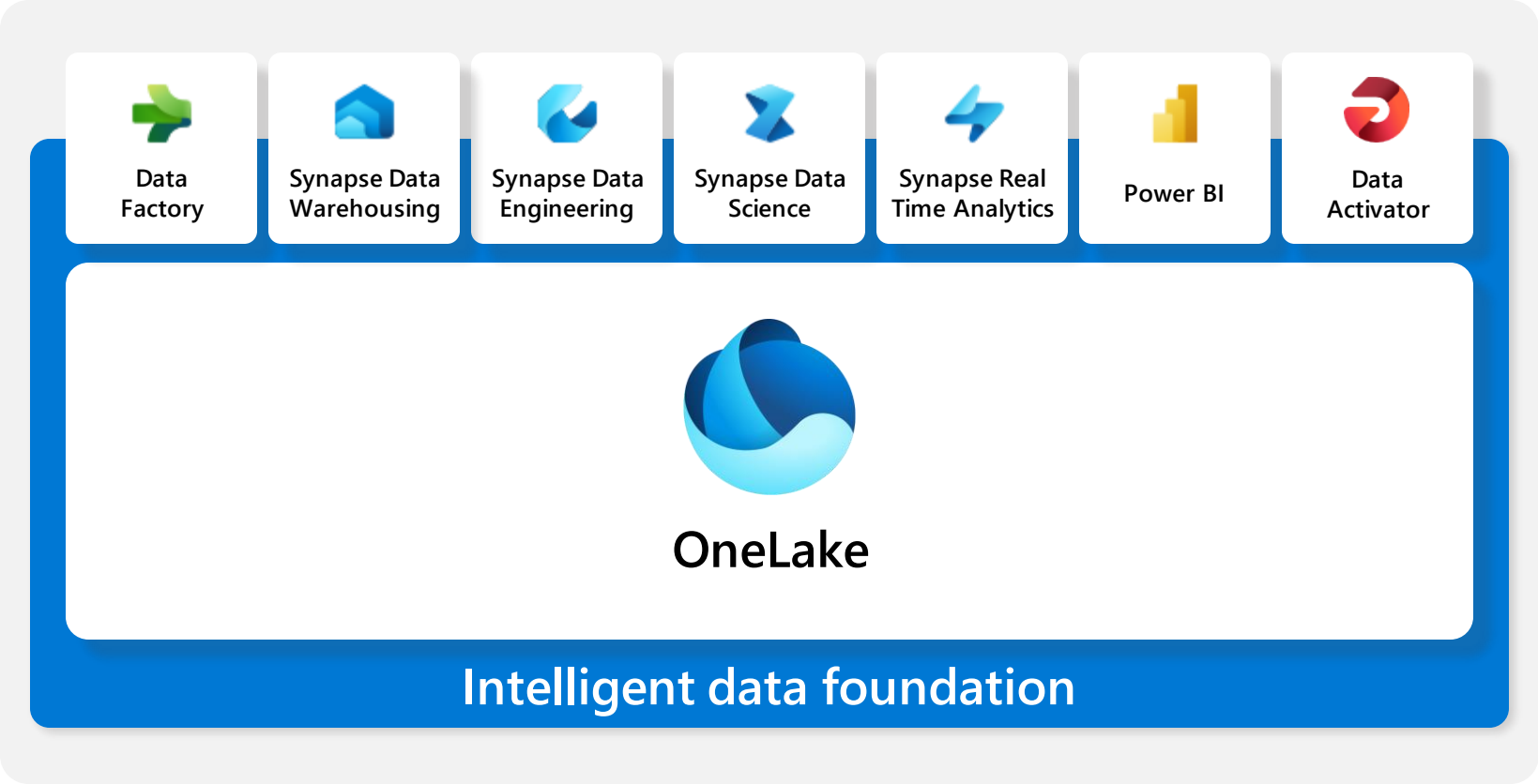
3

Microsoft Fabric capabilities



Microsoft Fabric

The data platform for the era of AI



Why data lakes?

Expectations of data lakes

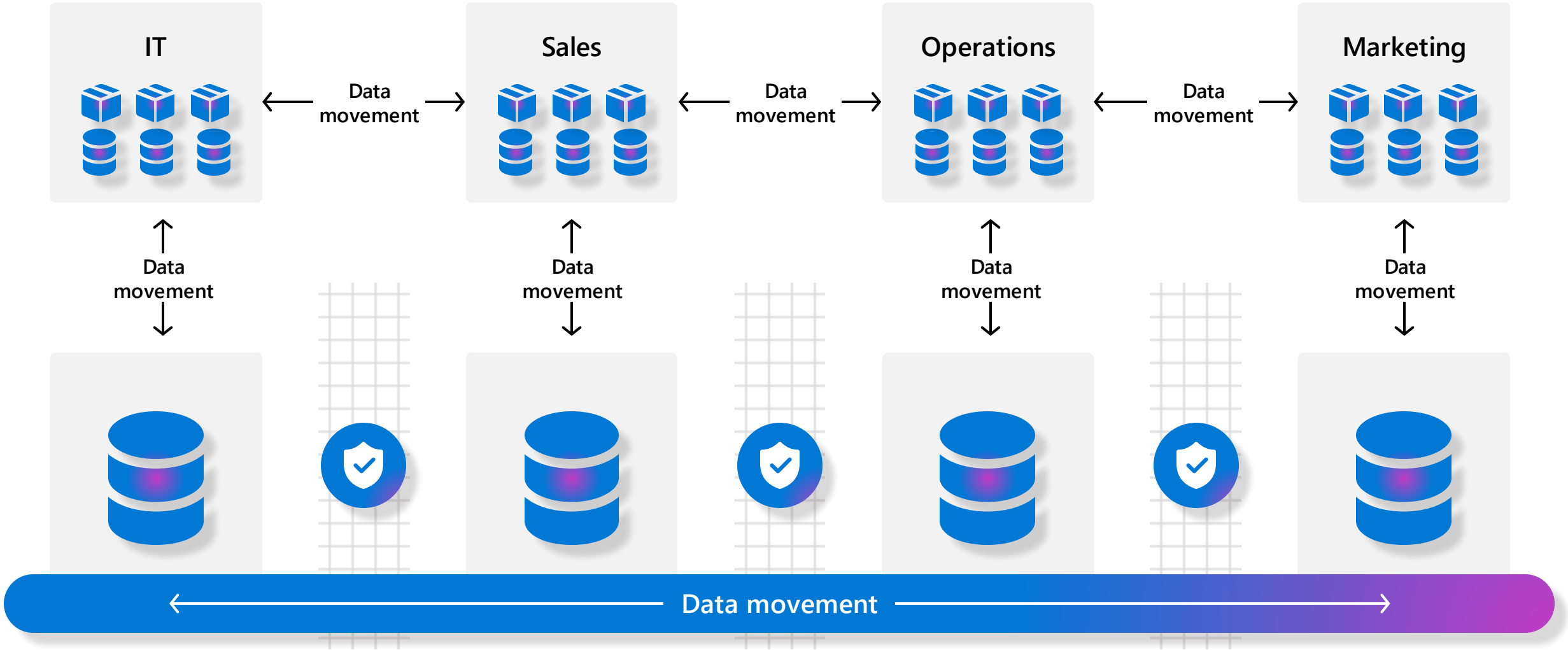
- One place for an organization to land all data, structured and unstructured.
- Break down data silos, making it easier to blend and analyze data together.
- Simplify security, governance and data discovery enabling all user and applications to access the data they need.

Reality: DIY data lakes using storage

You buy storage and build a complicated data lake solution on top of it.

- Getting the desired value from one data lake is hard. Business groups get frustrated with the pace of change when having to coordinate through a central team.
- Shifting to a data mesh pattern enables business groups to work independently with multiple business domain driven lakes. However, requires each team to manage their own lake.

Today: Multiple siloed lakes with lots of duplication



OneLake for all data

"The OneDrive for data"

OneLake provides a data lake as a service without you needing to build it

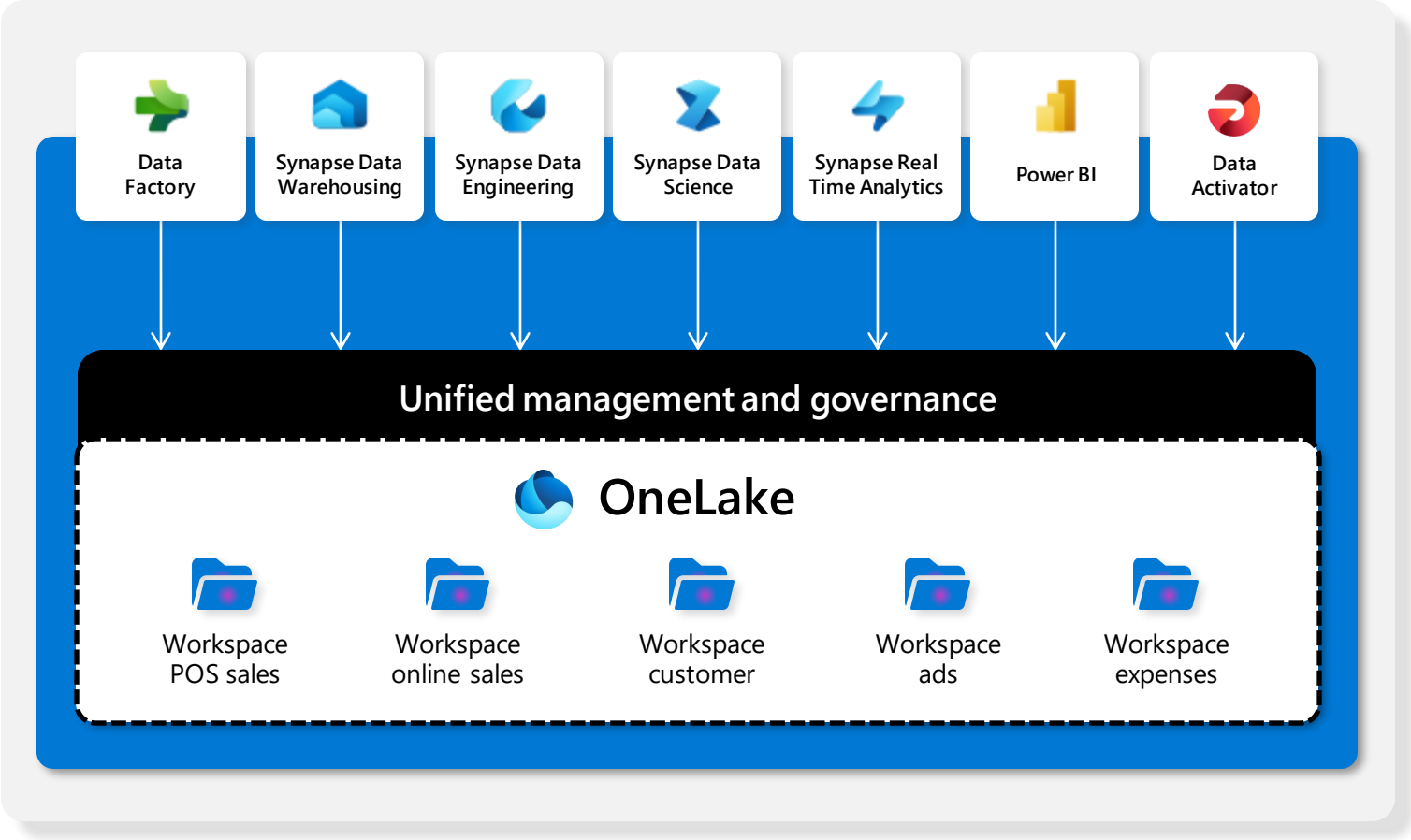
A single unified SaaS data lake

"No silos"

OneLake comes automatically provisioned with every Fabric tenant with no infrastructure to manage.

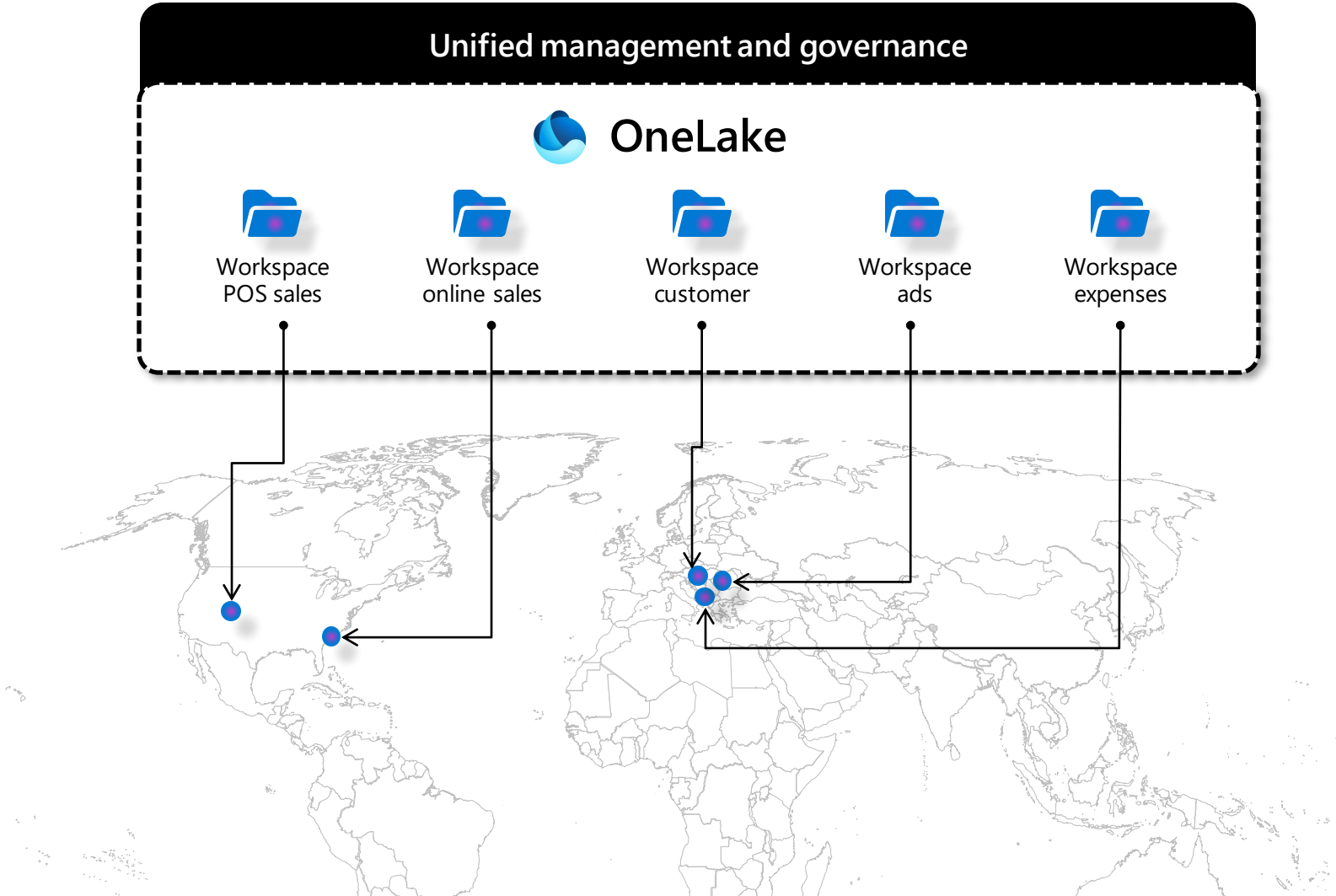
Any data in OneLake works with out-of-the-box governance such as data lineage, data protection, certification, catalog integration, etc. All data is ultimately under the control of a tenant admin.

OneLake enables distributed ownership. Different workspaces allow different parts of the organization to work independently while still contributing to the same data lake. Each workspace can have its own administrator, access control, region and capacity for billing.



OneLake which logically spans the world

Workspaces can reside in different regions around the world while still being part of the same data lake.



The foundation of all Fabric data items

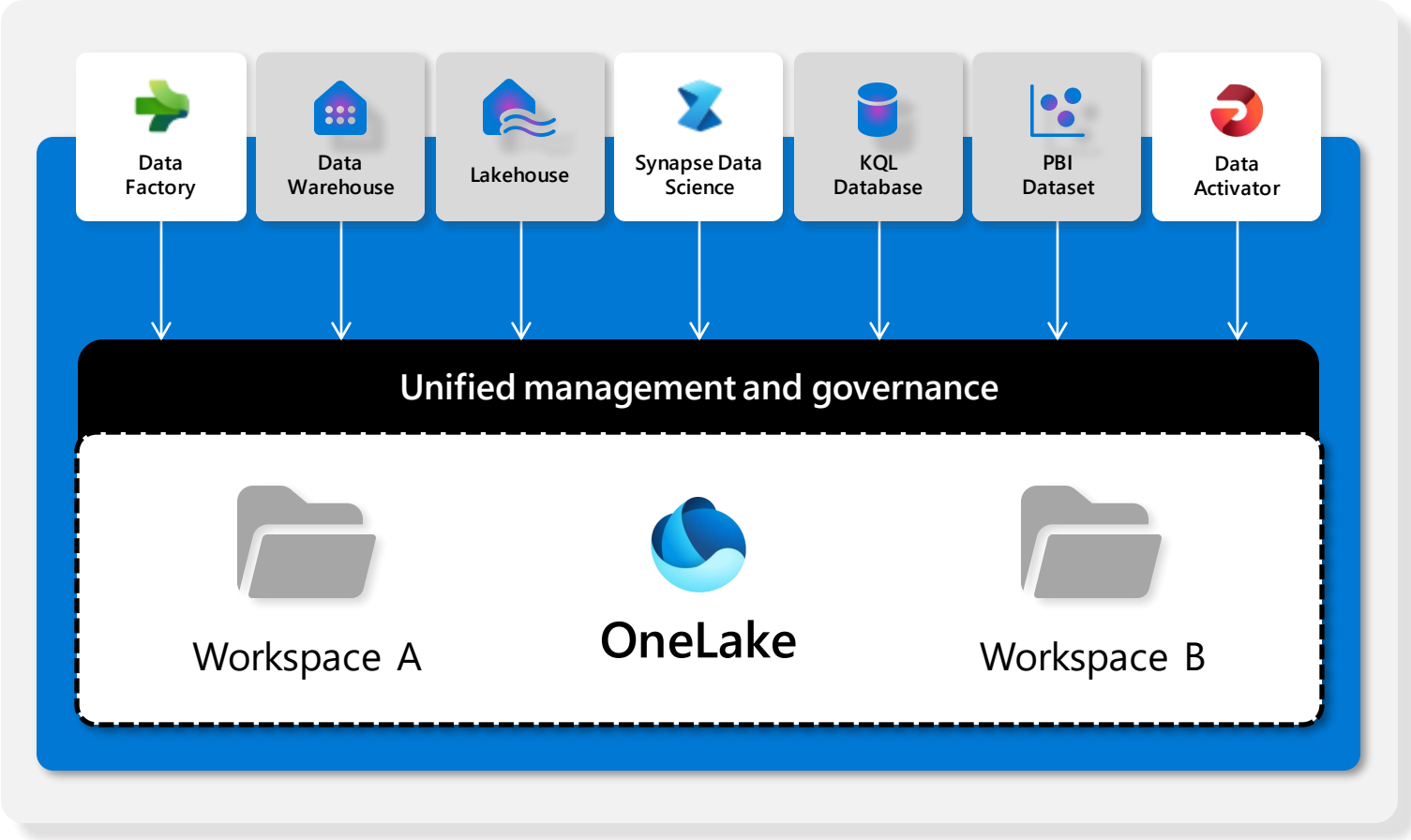
Fabric data items are prewired to store data in OneLake in open formats

All data is stored in a Fabric data item.

Today, users interact with Power BI via items like datasets.

In Fabric, different items give tailored experiences for each persona and scenario when accessing OneLake.

Like how Office stores Word, Excel, and PowerPoint documents in OneDrive.



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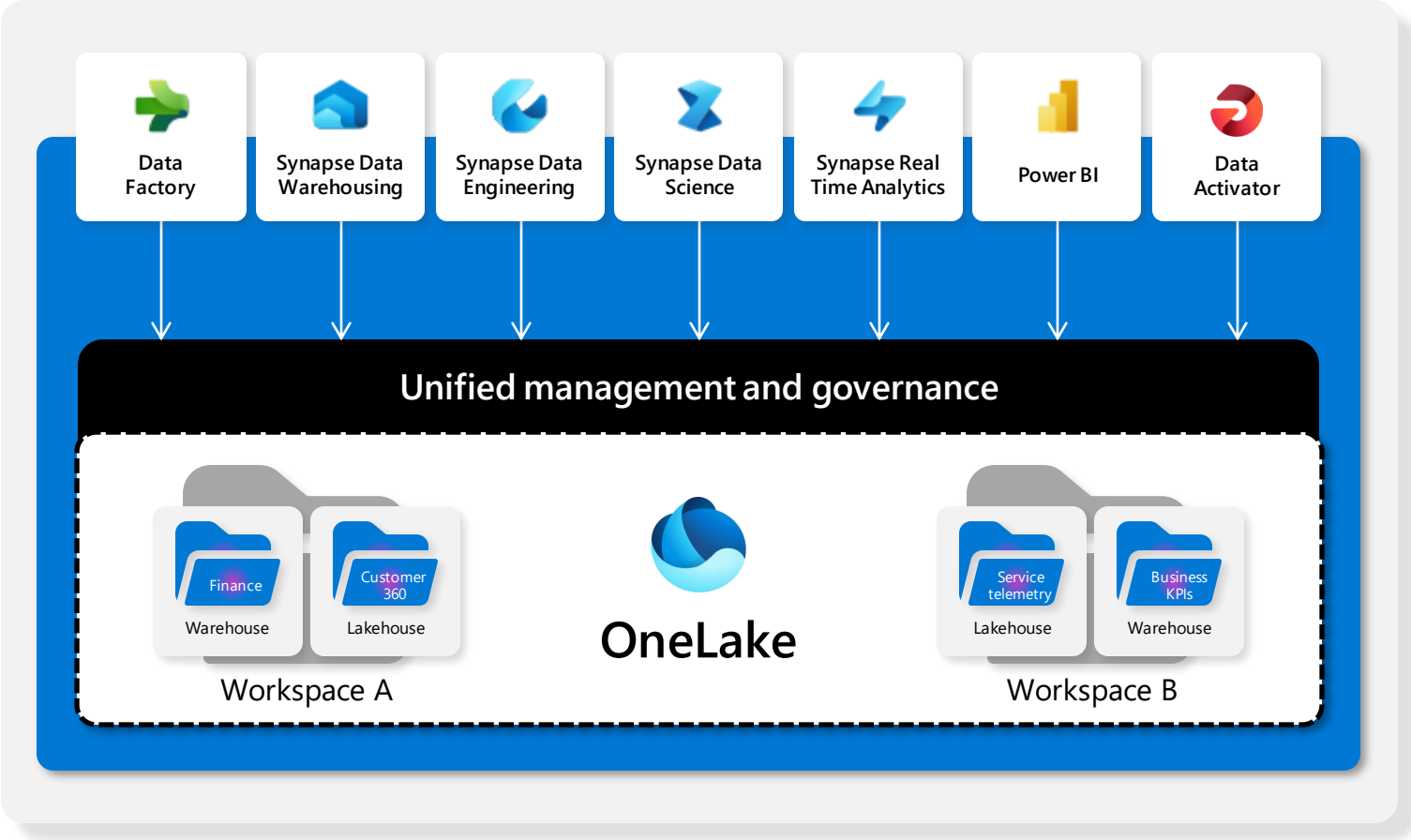
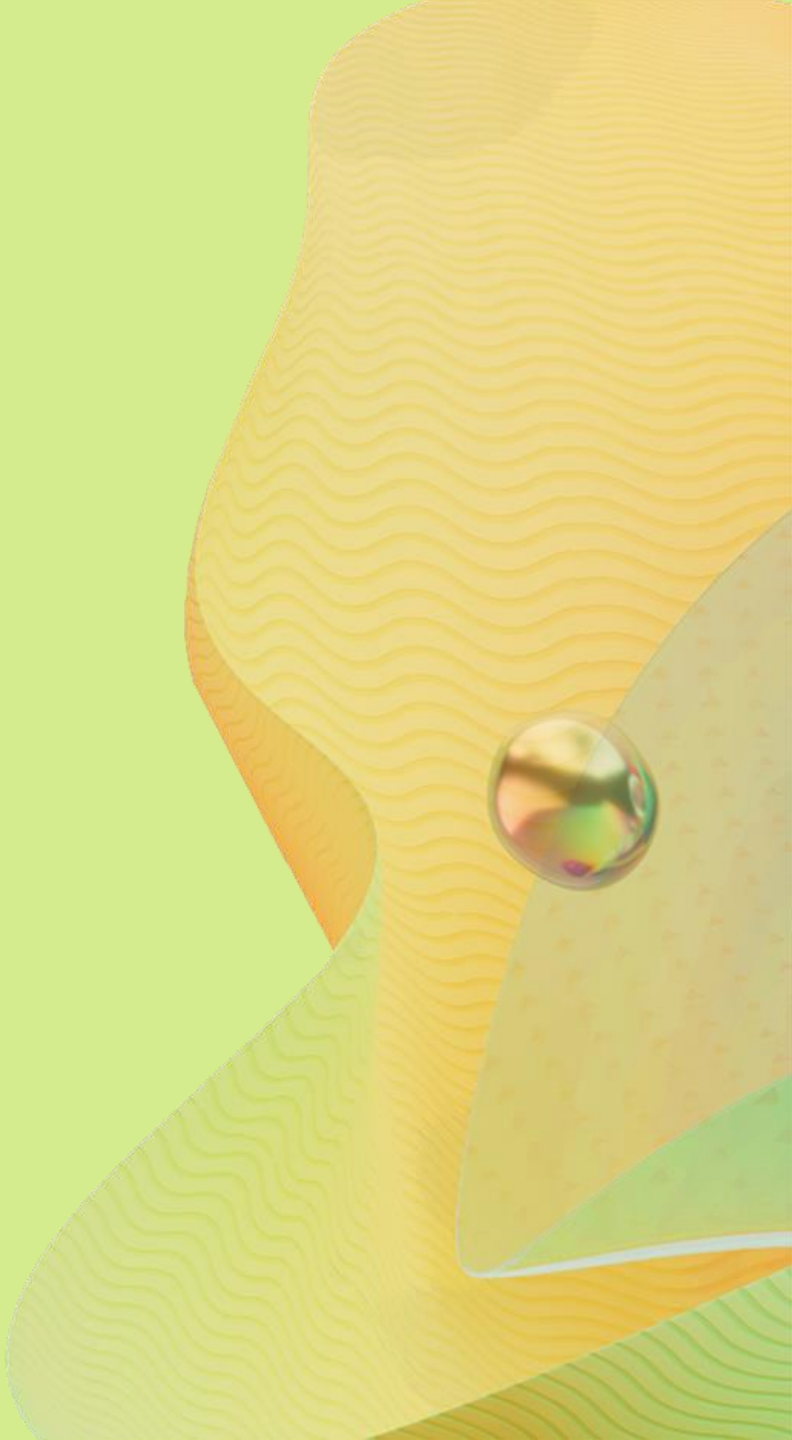
Like how Office stores Word, Excel, and PowerPoint documents in OneDrive.

All data is stored on open file formats. All tabular data will be written in delta lake parquet format.



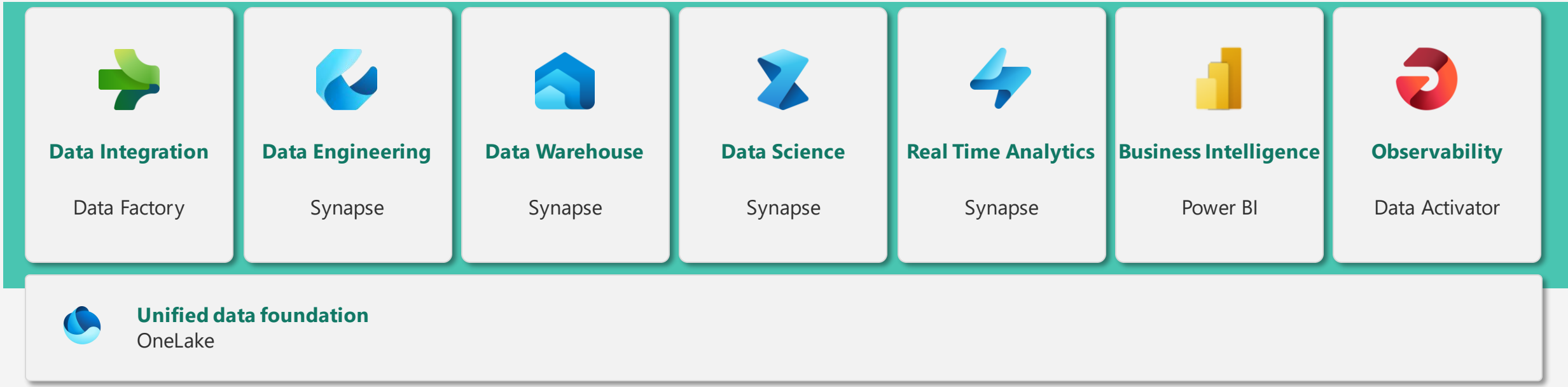
OneLake

Demo



Microsoft Fabric does it all—in a unified solution

An end-to-end analytics platform that brings together all the data and analytics tools that organizations need to go from the data lake to the business user

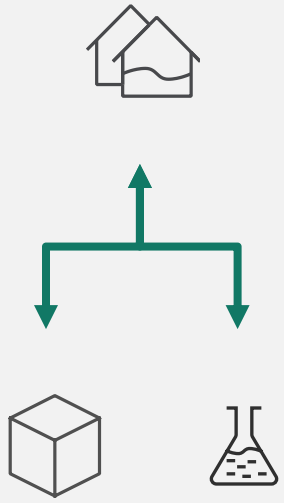


Common analytics scenarios

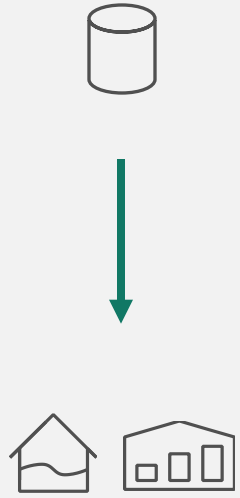
Lakehouse

Data Warehouse

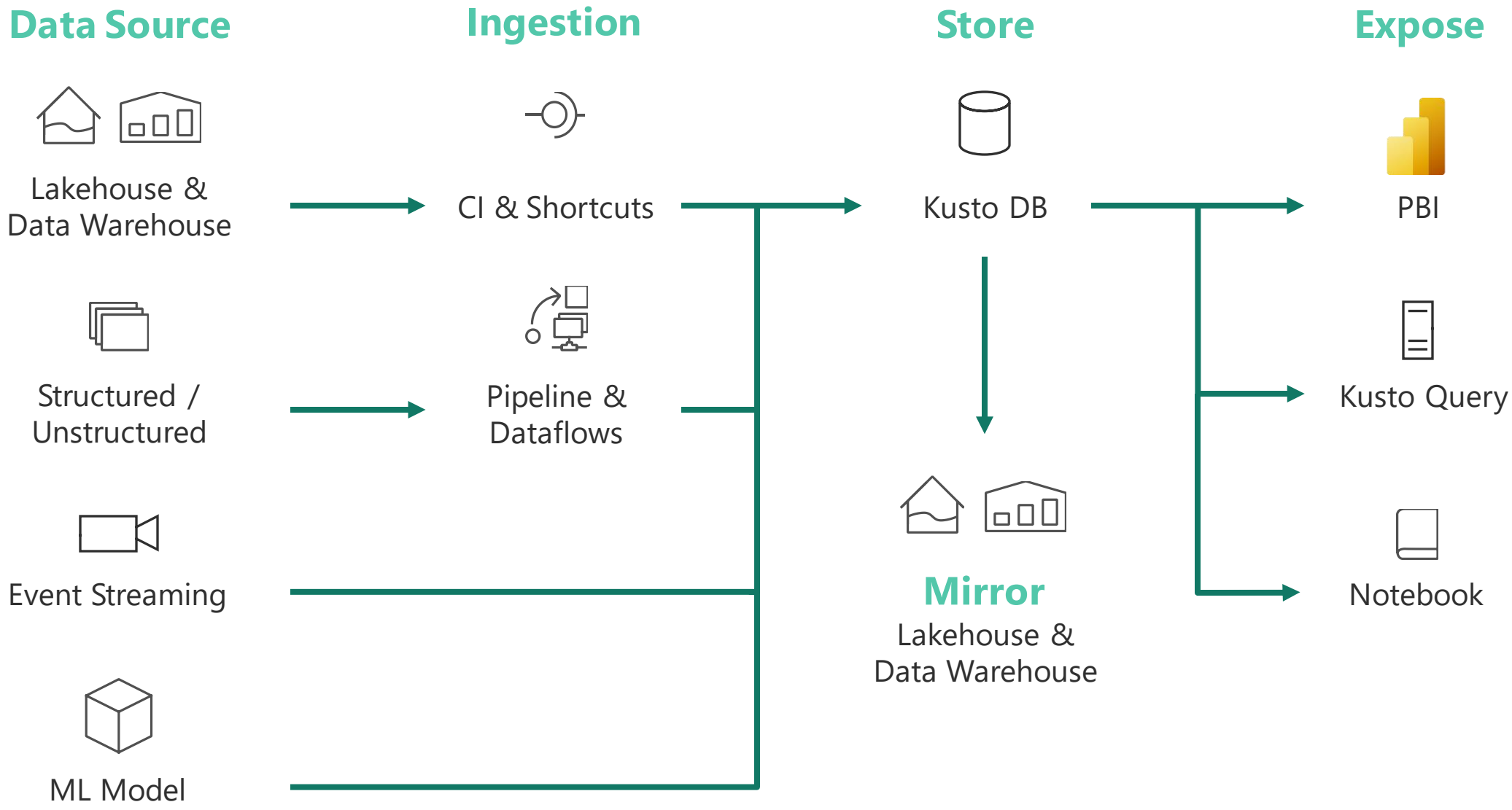
Data Science



Real Time Analytics



Real time analytics



Real time analytics

Demo

Demo Scenario

a. Ingest taxi data into data platform (fabric)
b. Explore the data for trends
c. Expose dataset to Engineers and Scientists so they can make reports/predictive models
d. Finally take hat as an Engineer and make a report

Disclaimer

a. Premade due to time constraint
b. focus will be more on features than how to
c. Explain what has been prior to this demo

What's been done prior to demo

- Created
  - (Empty) Workspace – place to collaborate
  - (configured) Eventstream – Subscribing to Yellow Taxi events (EventHub)
  - (Empty) KQL db – database and table for storing events
  - (Empty) Lakehouse environment – home for DE and DS
    - Uploaded a csv file → delta table (city names)

4

Future roadmap and copilot

Copilot in Microsoft Fabric

Transform productivity with AI experiences in Microsoft Fabric

Copilot in Microsoft Power BI

Empower every BI professional to do more with Microsoft Fabric

6

Getting started

Get started today

Explore the product here: https://aka.ms/try-fabric

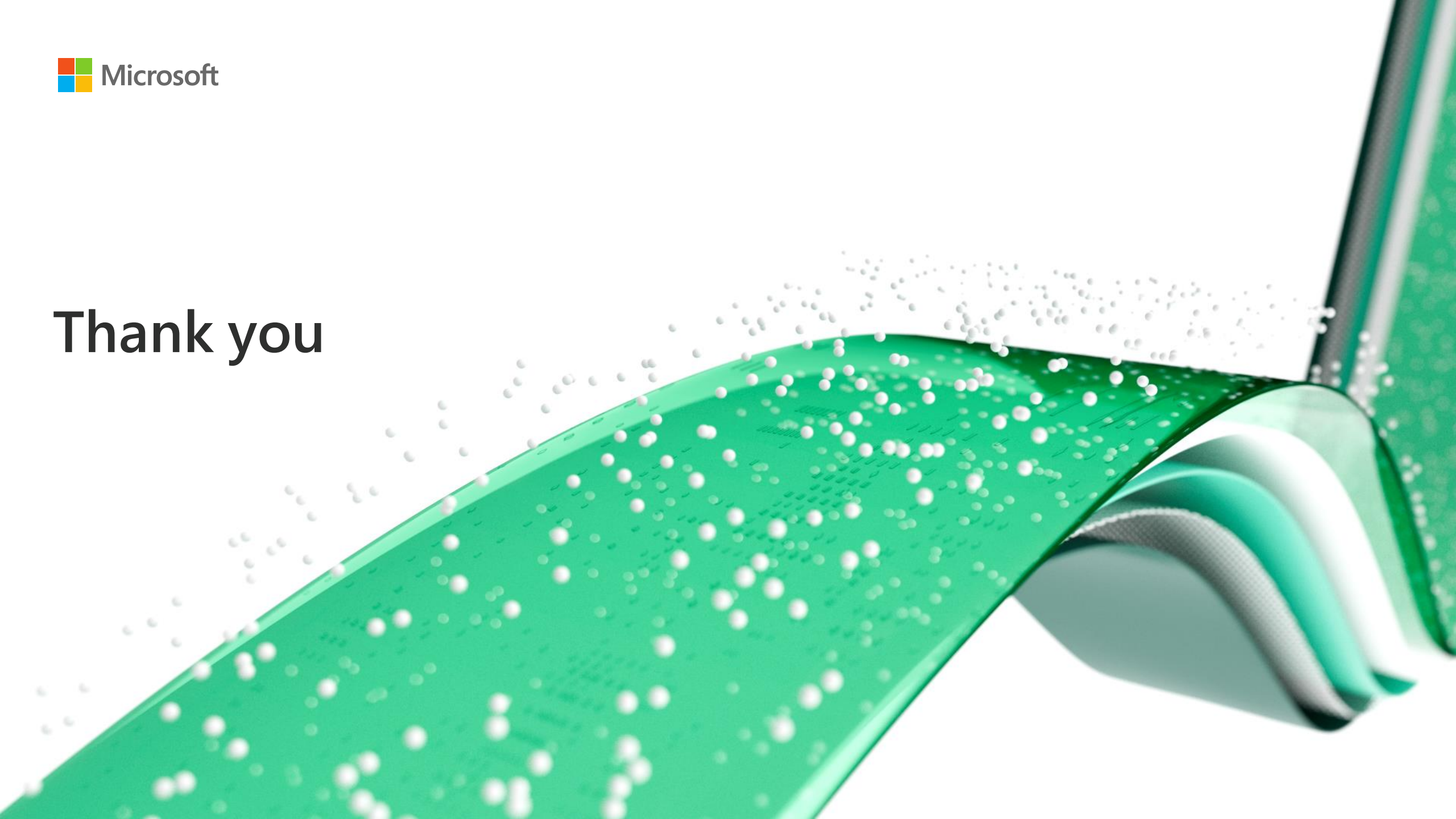
Get your questions answered in the Microsoft Fabric webinar series: https://aka.ms/fabric-webinar-series

See the latest announcements in the Microsoft Fabric blog site: https://aka.ms/fabric-tech-blog

Read the implementation guide: https://aka.ms/Getting-Started-eBook

Microsoft

Thank you



Microsoft Fabric references

Fabric deep-dives

- Microsoft Fabric Launch Digital Event (Day 1) – YouTube
- Microsoft Fabric Launch Digital Event (Day 2) – YouTube

Copilot

- Empower every BI professional to do more with Microsoft Fabric
- Transform productivity with AI experiences in Microsoft Fabric

Microsoft Fabric Experiences

- Fabric Data Science Experience https://youtu.be/LDZL0gyHQbs