

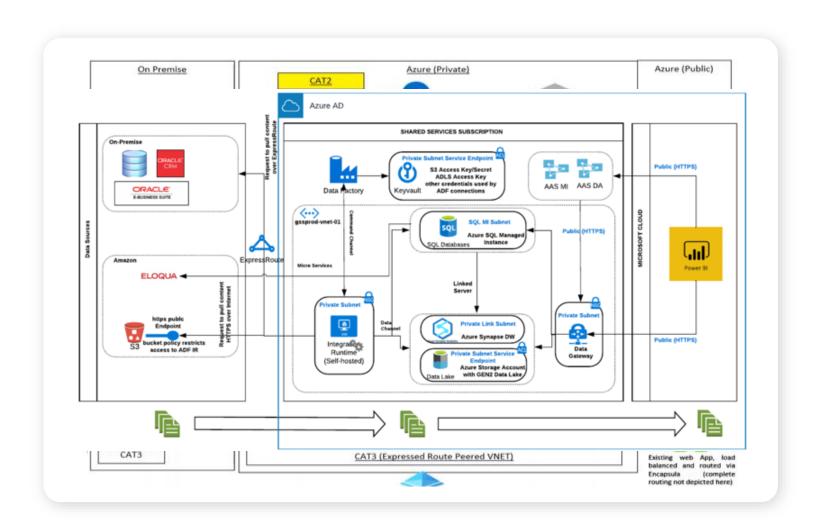
# Analytics is complex and fragmented

Every project has many subsystems

Every subsystem needs a different class of product

Products often come from multiple vendors

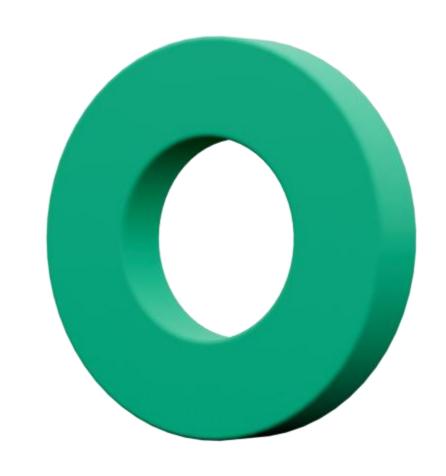
Integration is complex, fragile and expensive



# Simplify,

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

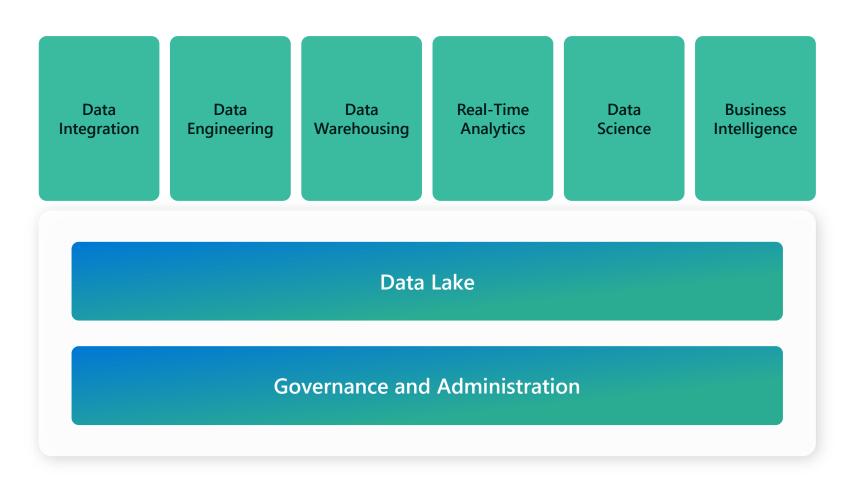
Every CDO, Every Enterprise



# A silver lining?

Analytics has very predictable patterns

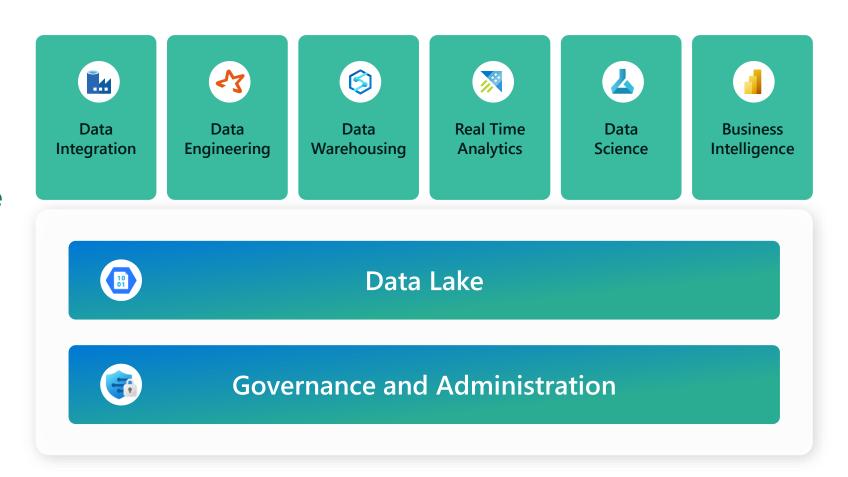
Microsoft has all the products with the right scale needed to build a complete analytics system



# A silver lining?

Analytics has very predictable patterns

Microsoft has all the products with the right scale needed to build a complete analytics system



# Still far too complex

Many Products

**Different Experiences** 

Proprietary and Open

**Dedicated and Serverless** 

PaaS and SaaS

**Different Business Models** 

**Steep Learning Curves** 

Deep Expertise Needed

High Integration Effort



**Purview** 



**Power BI** 



**Kusto** 



**Data Factory** 



**Azure Al** 



Synapse DW



**Synapse Spark** 

### **Announcing**



# Microsoft Fabric

The data platform for the era of Al



The data platform for the era of Al

**Complete Analytics Platform** 



The data platform for the era of Al

Complete Analytics Platform

Lake Centric and Open

**Empower Every Business User** 

Al Powered



### 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** 

ChatGPT on your data

Al driven insights



The data platform for the era of Al

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

Al Powered

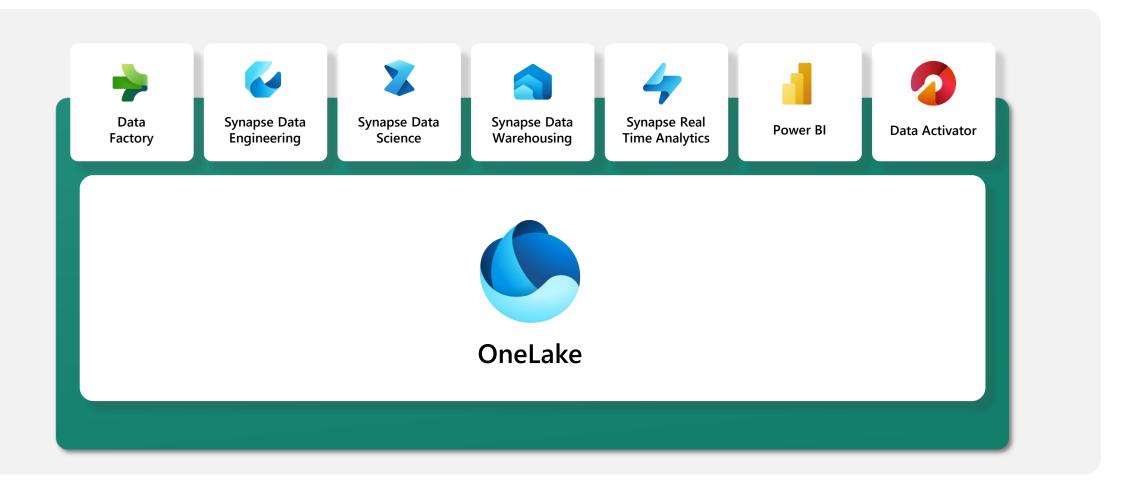
Copilot accelerated

ChatGPT on your data

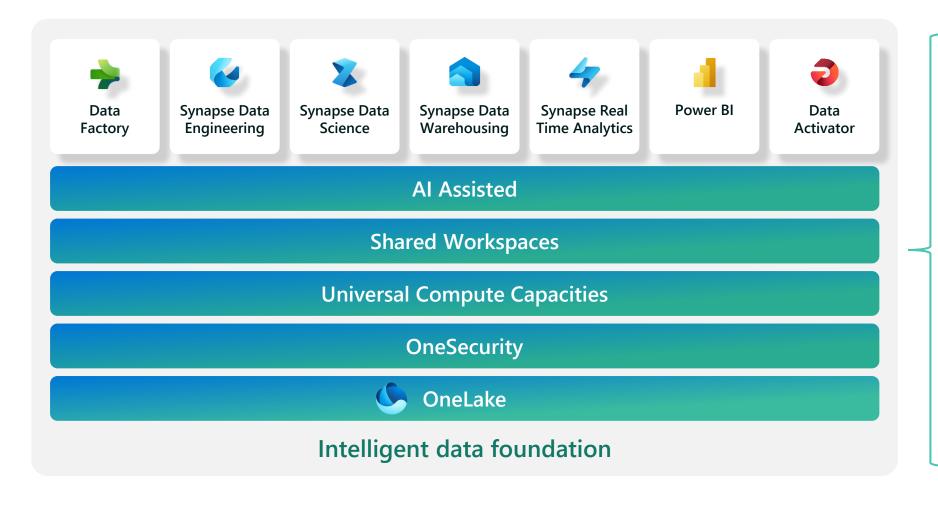
Al driven insights



The unified data platform for the era of Al







#### Single...

Governance &

compliance

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

### SaaS

"It just works"

5x5

Frictionless onboarding

Instant provisioning

Quick results w/ Intuitive UX

Success by default

Minimal knobs

**Auto-optimized** 

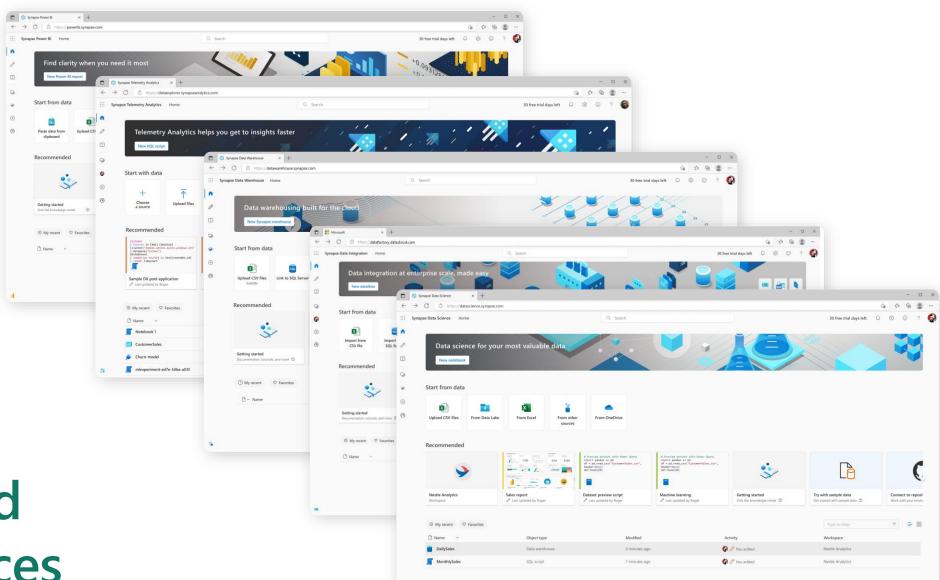
Auto-integrated

Centralized administration

Tenant-wide governance

Centralized security management

Compliance built-in



Persona optimized experiences



The data platform for the era of Al



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

### Al Powered

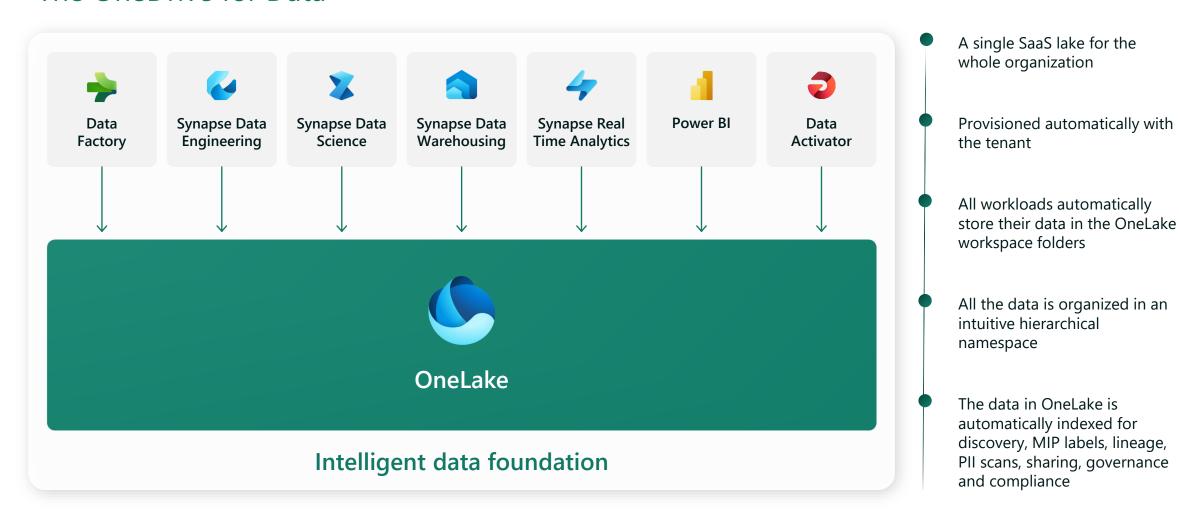
Copilot accelerated

ChatGPT on your data

Al driven insights

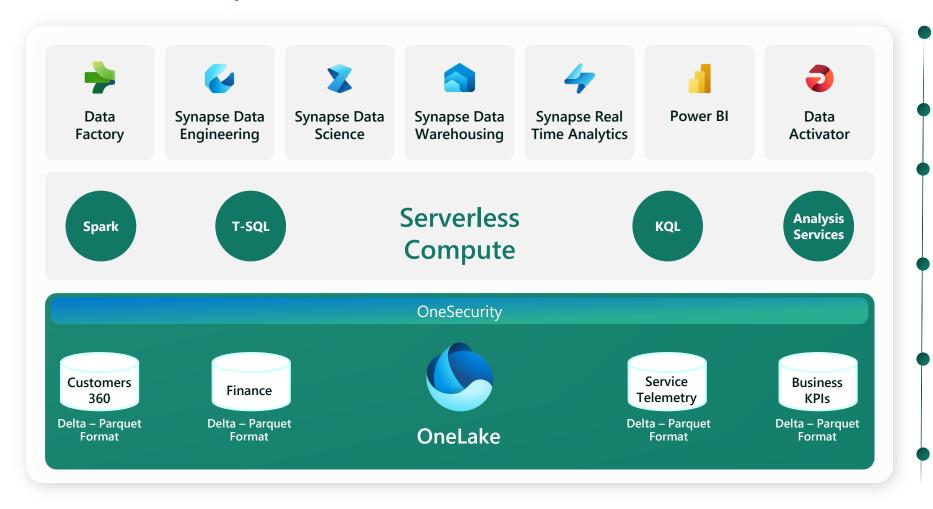
### OneLake for all Data

"The OneDrive for Data"



# One Copy for all computes

Universal security makes it real



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

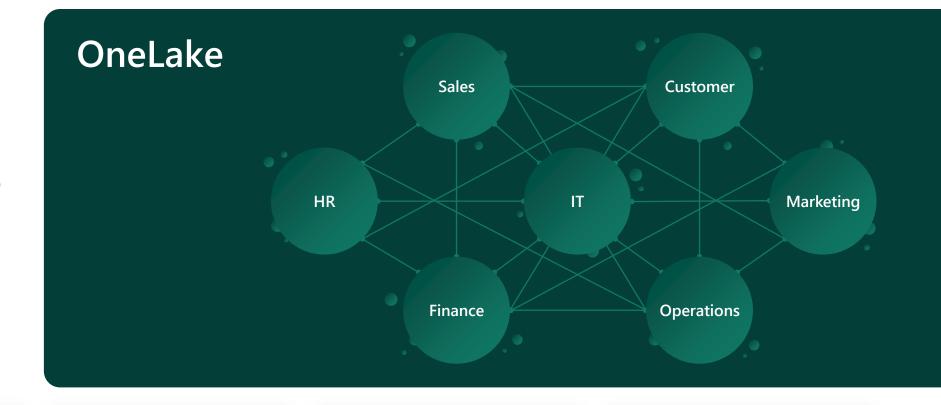
Once data is stored in the lake, it is directly accessible by all the engines without needing any import/export

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

# OneLake for all domains

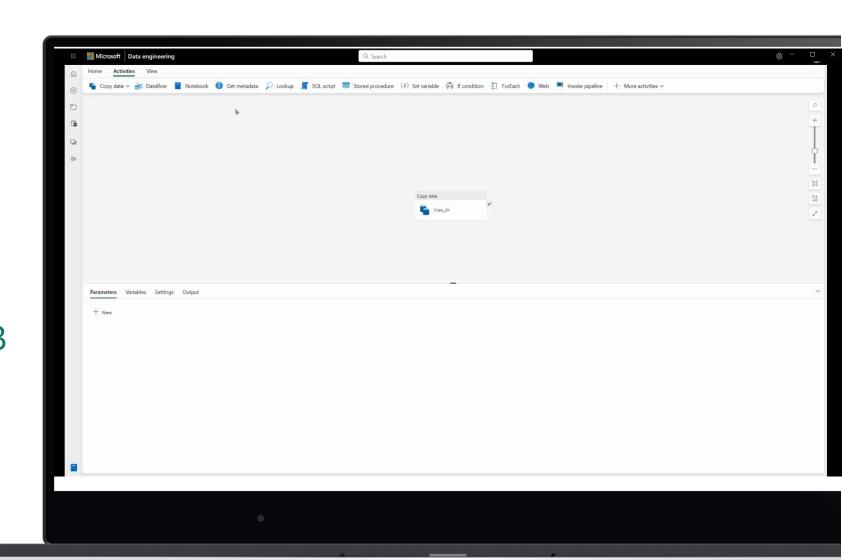
A true hub & spoke data mesh across organizational data domains.



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

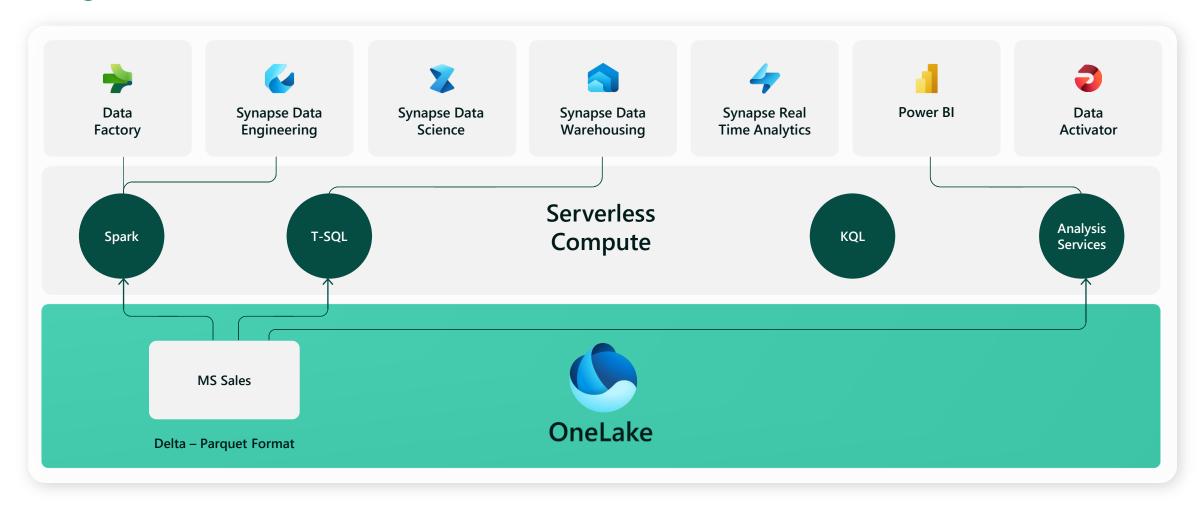
# Loading full MS Sales data to Fabric Lakehouse

15 minutes to load 20 TB



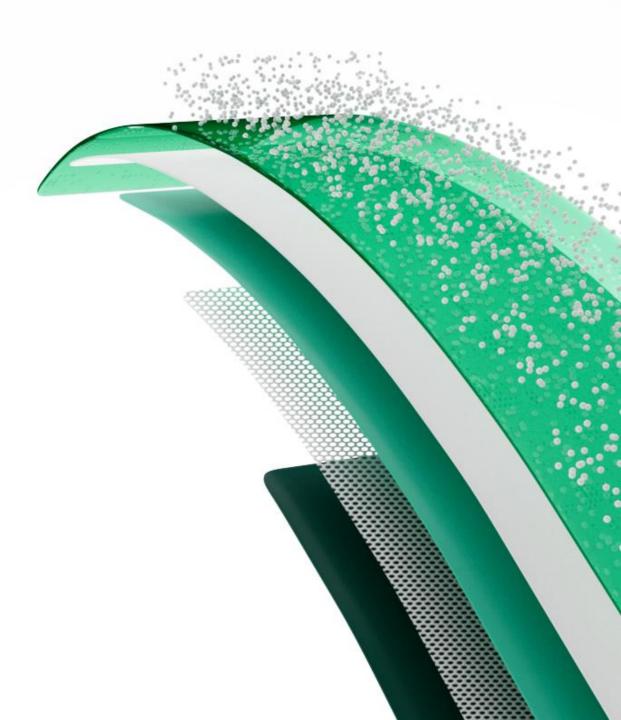
# One Copy for all computes

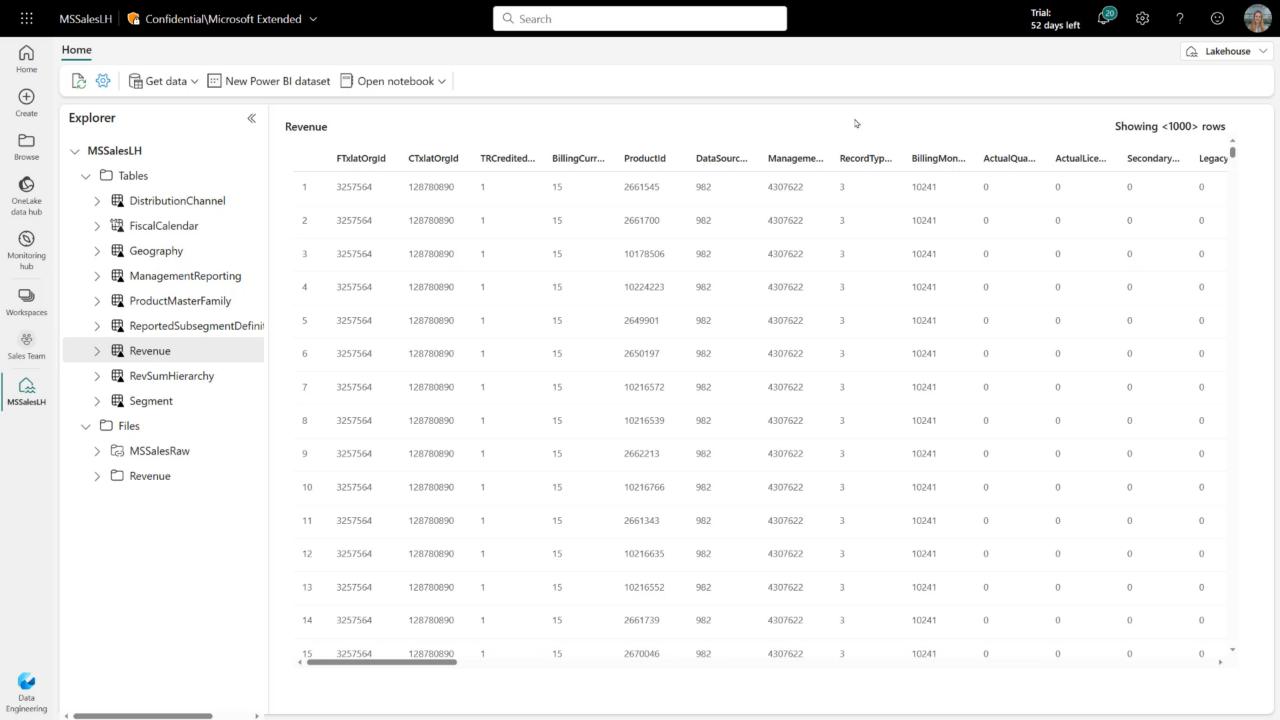
Using the Lakehouse



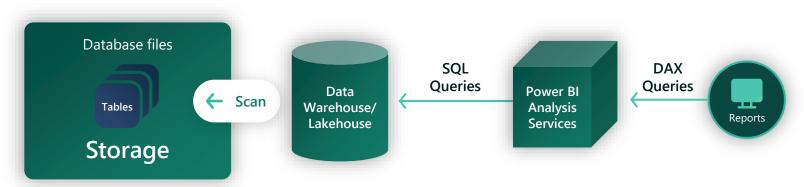
**DEMO:** One Copy in Action

Using the Lakehouse



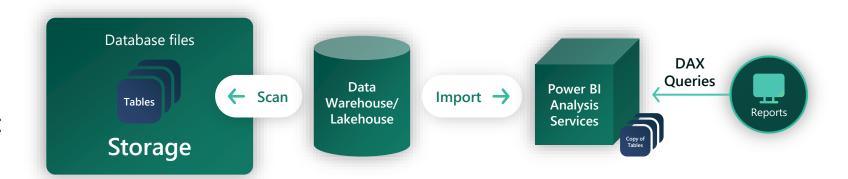


# "Direct Query Mode" Slow, but real time

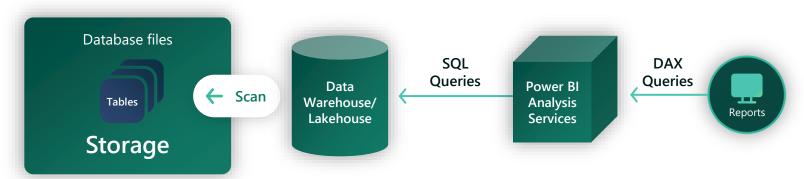


### "Import Mode"

Latent & duplicative but fast

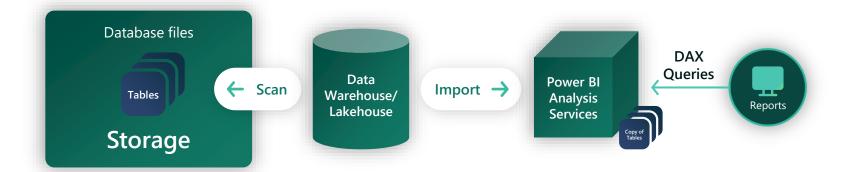


# "Direct Query Mode" Slow, but real time



### "Import Mode"

Latent & duplicative but fast

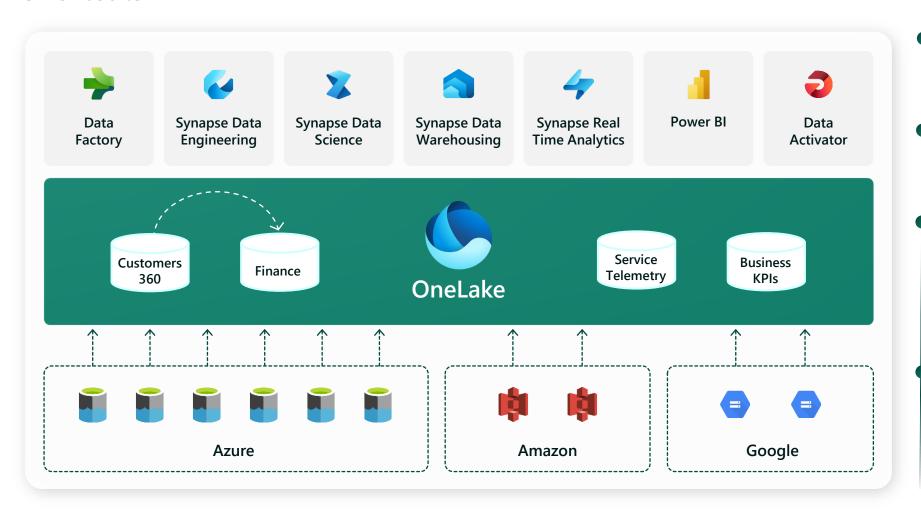


"Direct Lake Mode"
Perfect!



# Taking One Copy to the Next Level

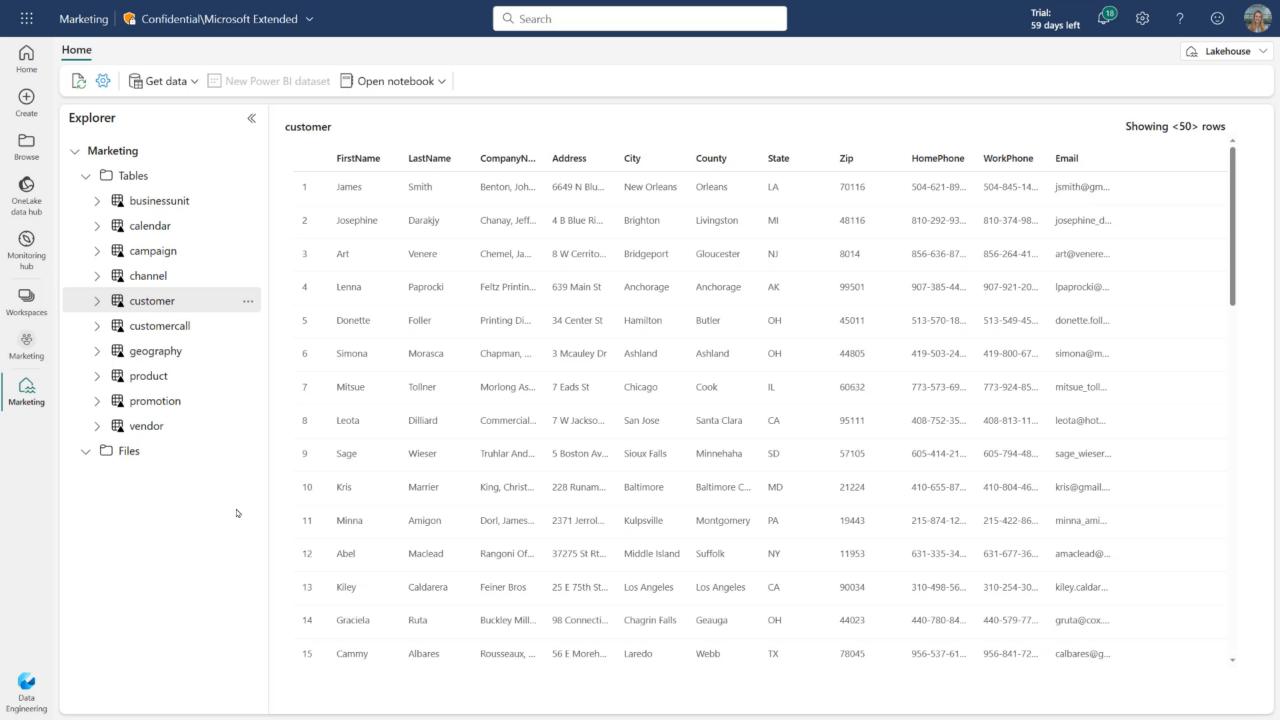
#### Shortcuts

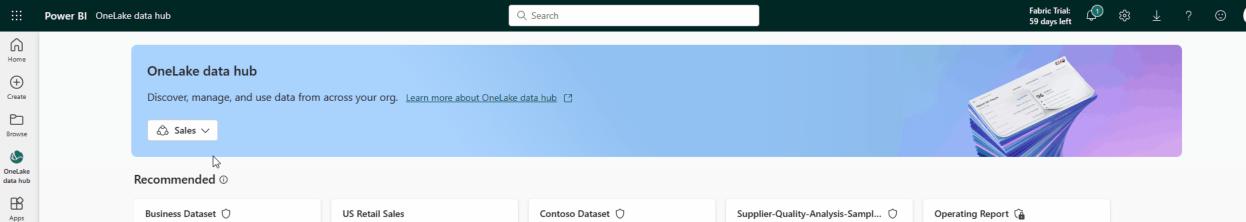


- Sharing data in OneLake is as easy as sharing files in OneDrive, removing the needs for data duplication
- With shortcuts, data throughout OneLake can be composed together without any data movement
- Shortcuts also allow instant linking of data already existing in Azure and in other clouds, without 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

**DEMO: One Lake Shortcuts** 



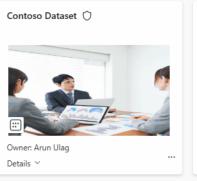




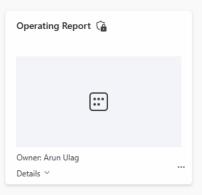


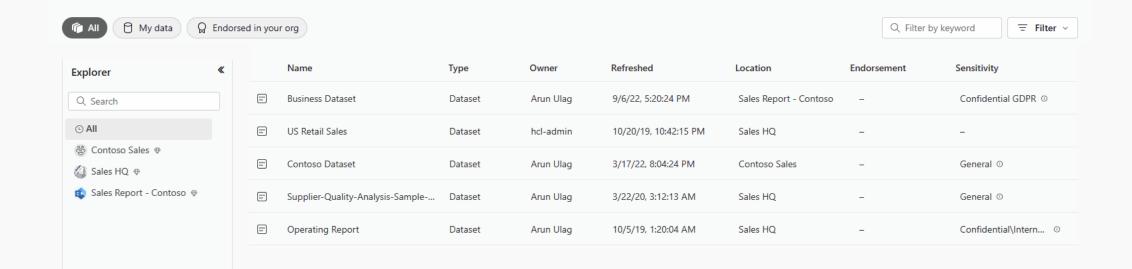
Details ~











Q Metrics

0

Monitoring hub

Deployment

pipelines

Learn

Workspaces

4

CRM...



The data platform for the era of Al

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

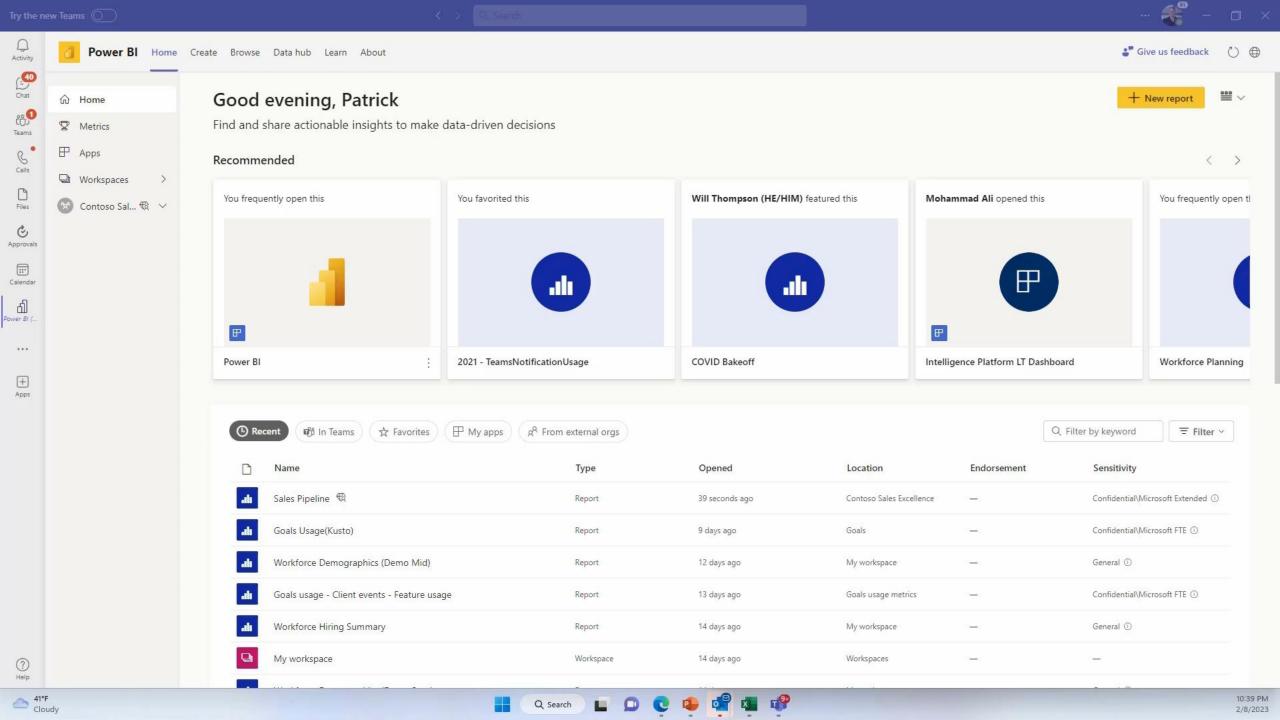
Copilot accelerated

ChatGPT on your data

Al driven insights

**DEMO: Office Integration** 



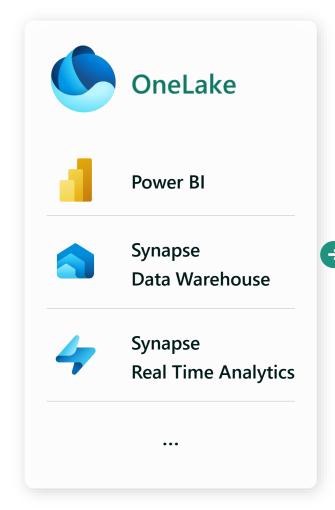


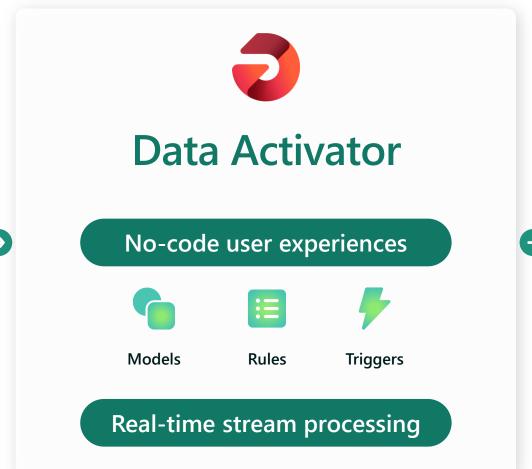
# **Announcing**

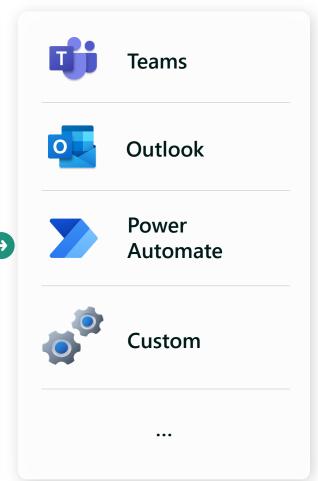


**Data Activator** 

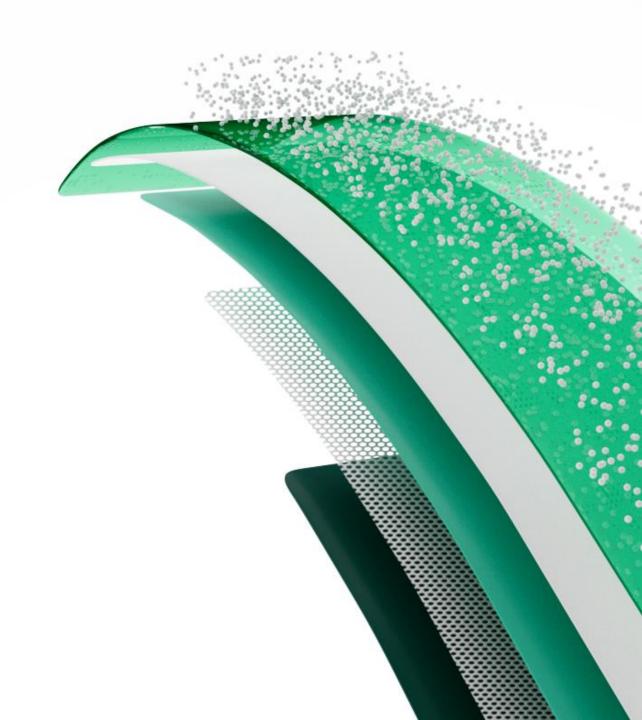
# **Introducing Data Activator**



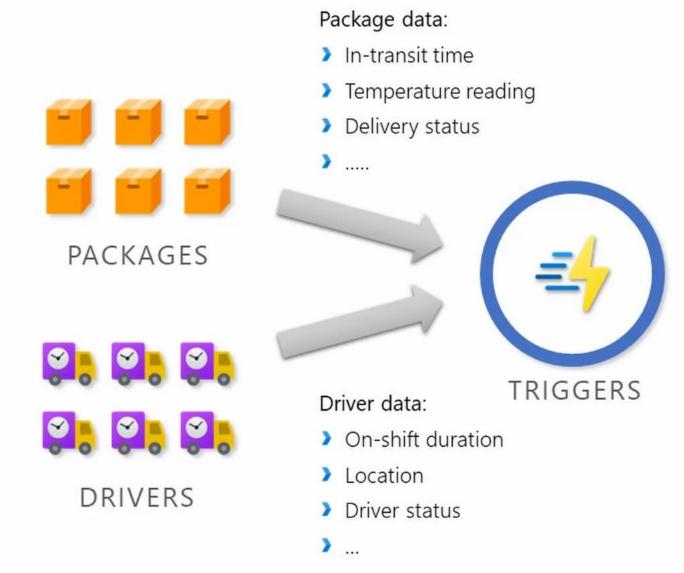




**DEMO:** Data Activator



### Demo scenario – delivery logistics



#### E-mails when:

- Package is too hot
- Package is delayed
- Driver on shift for too long
- **>** ...





#### Microsoft Fabric

The data platform 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** 

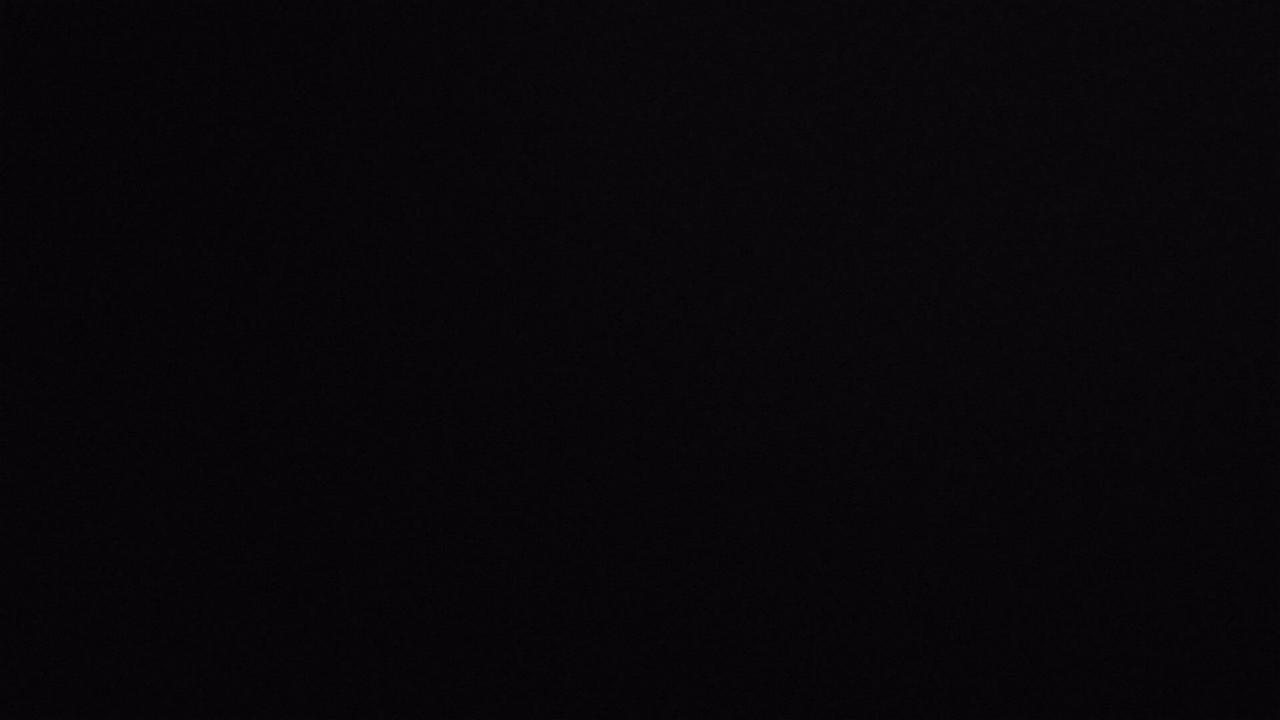
Insight to action

AI Powered

Copilot accelerated

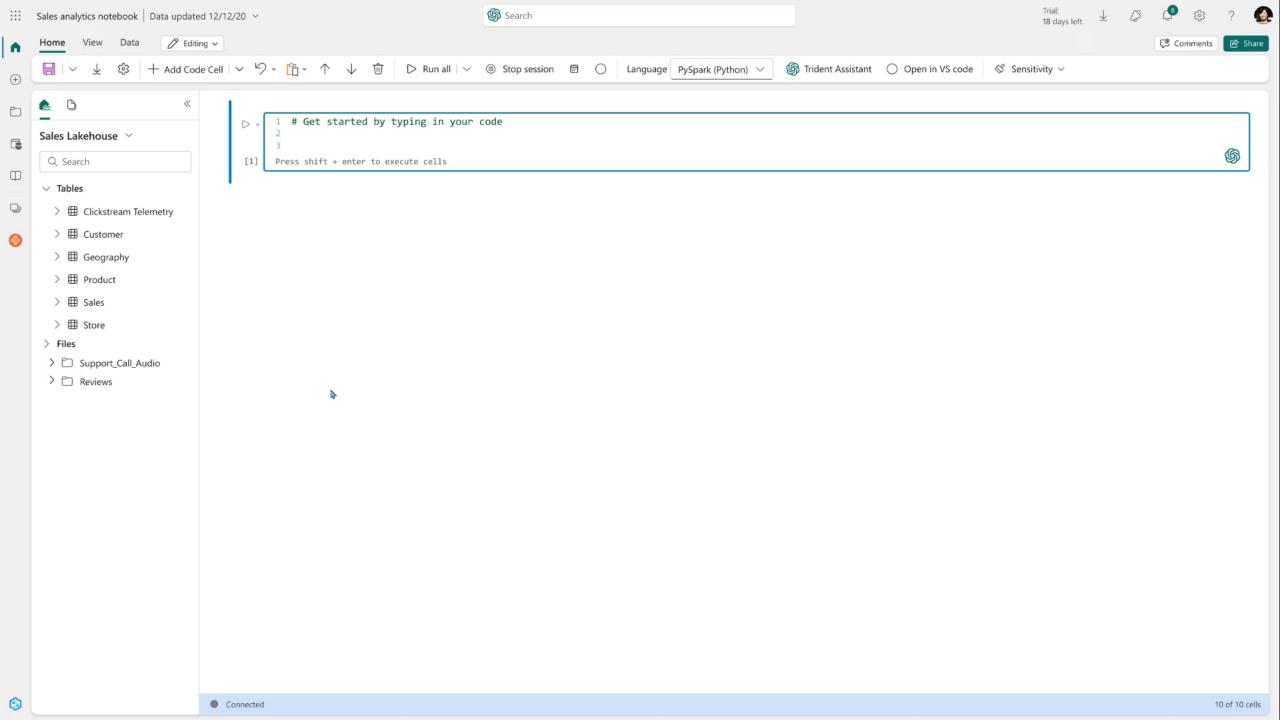
ChatGPT on your data

Al driven insights

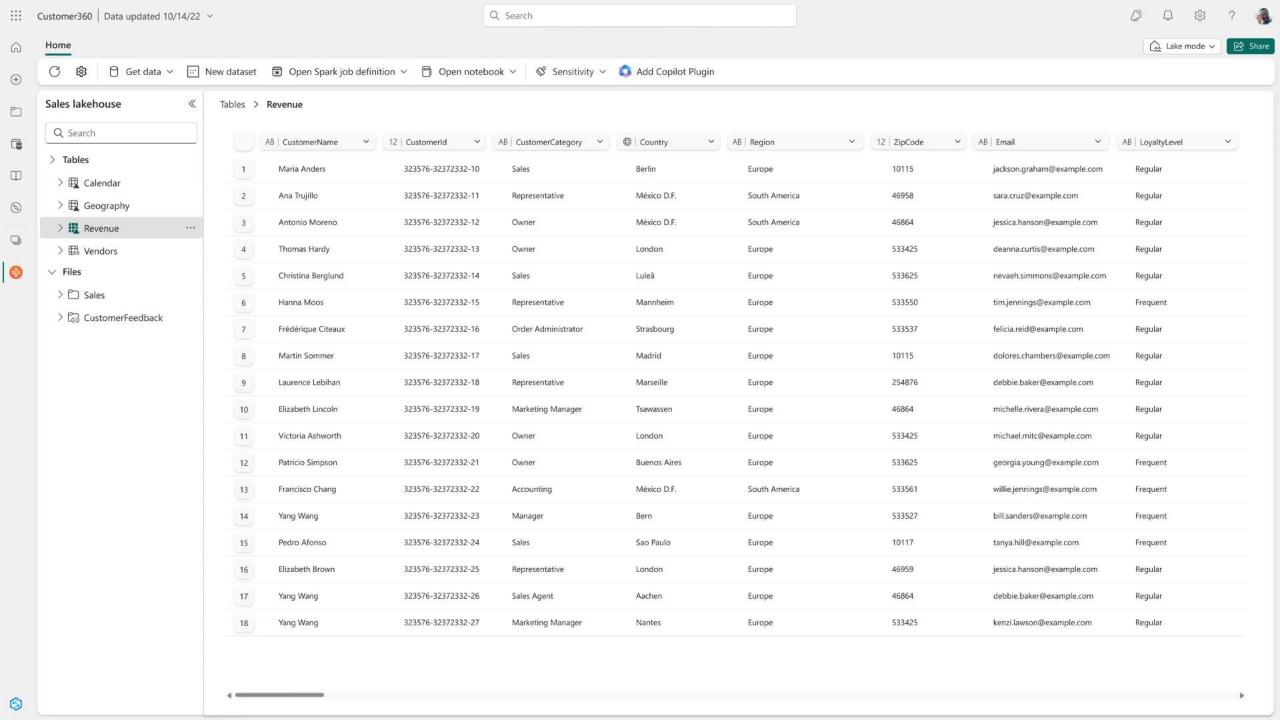


DEMO: Copilot accelerated – Synapse Data Science

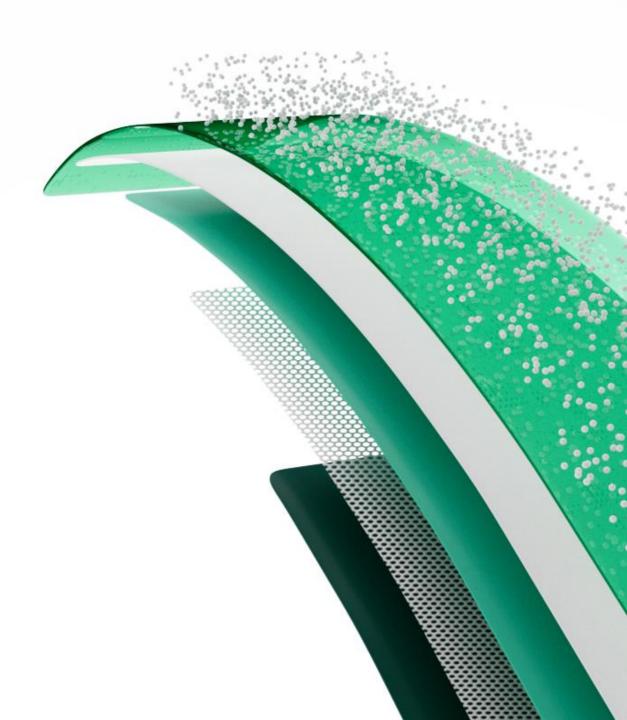




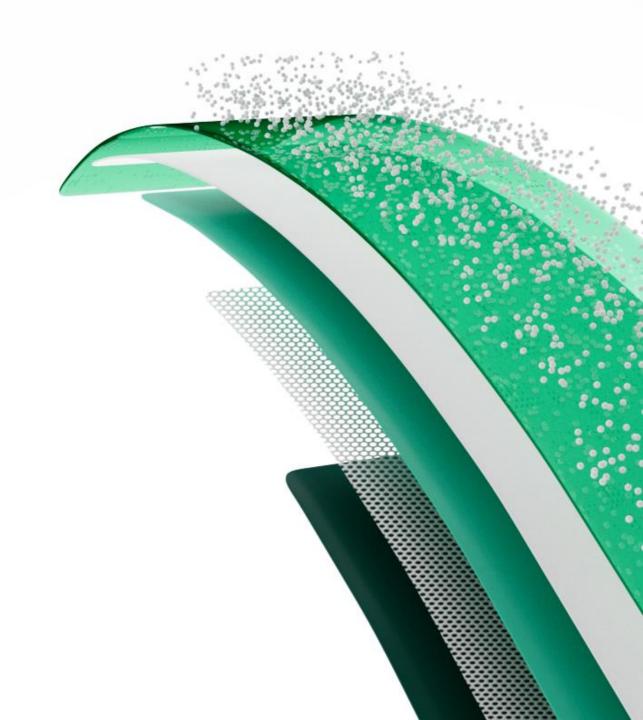




DEMO: Al Driven Insights – Power Bl

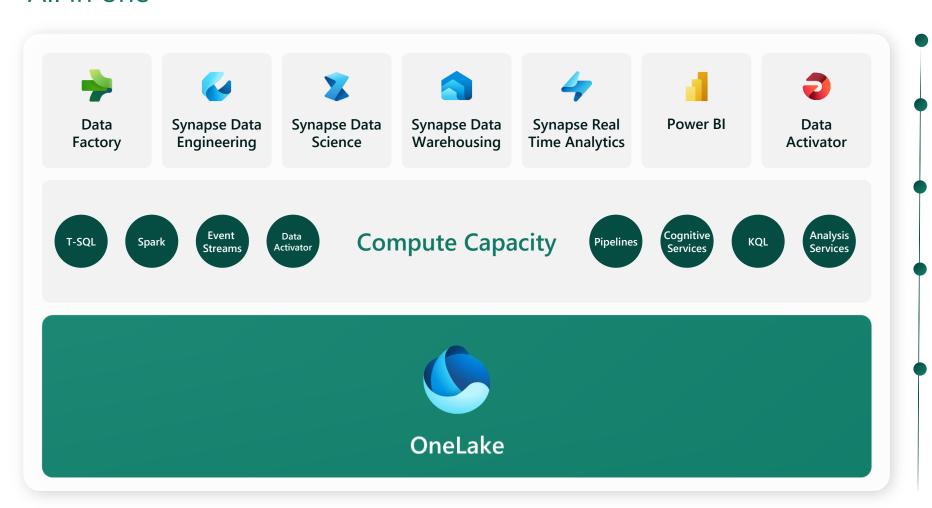


Fabric Capacities: Universal Compute



## Universal compute capacities

"All in one"



Analytics vNext comes with a rich set of compute engines

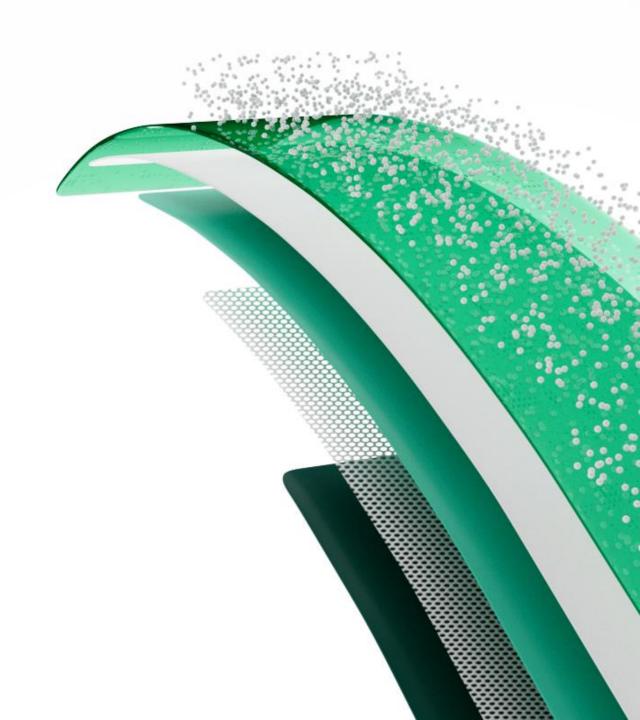
Universal Compute Capacities provide the power to the various engines

"All in One" – Each of the compute capacity can power all the engines

There is no need to size in advance the individual engines, or to split the capacity across the engines

All Power BI Premium capacities are upgraded automatically to the Universal Compute Capacities, no additional purchase required

# Upgrading to Microsoft Fabric



# Upgrade to Microsoft Fabric at your own pace



Continue building on Synapse Gen2, Azure Data Factory, Azure Data Explorer, Azure Databricks



Mount existing
Synapse Gen2,
Azure Data Factory,
Azure Data Explorer
to Microsoft Fabric,
at zero cost/risk



Upgrade to full
Microsoft Fabric
experience with
tooling and support
from Microsoft

1

2



### **Microsoft Fabric**

The data platform for the era of AI

