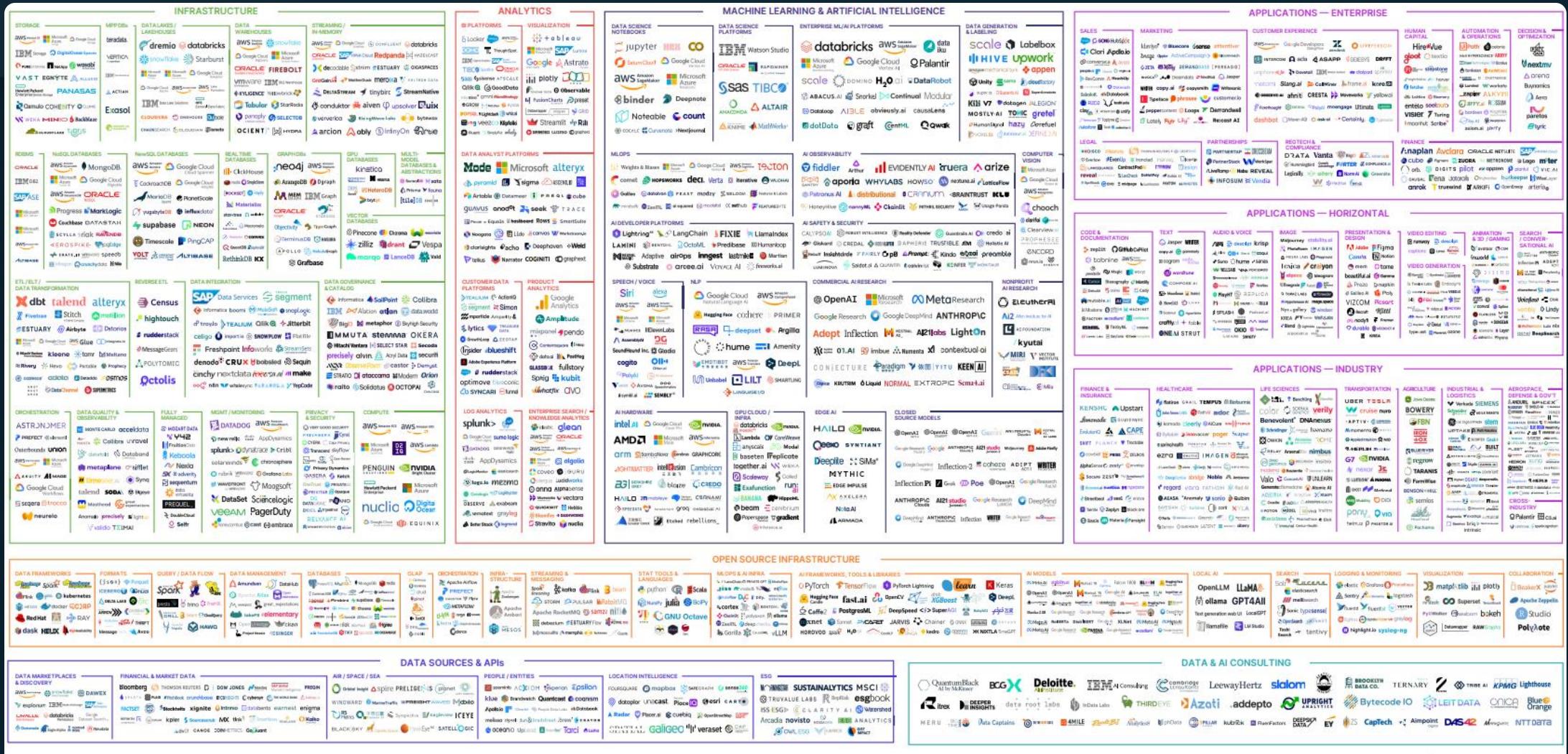




# Future Proof Your Data Estate for AI Transformation with Microsoft Fabric

Sergio Zenatti Filho  
Chief Cloud Solution Architect

# The data and AI landscape





Azure SQL



SQL Server on Azure  
Virtual Machines



Azure  
SQL Database



Azure  
Cosmos DB



Azure Database  
for PostgreSQL



Azure Database  
for MySQL



Azure Synapse  
Analytics



Azure Data  
Factory



Power BI



Data Warehouse



Data Lake



Azure Managed  
Redis



Azure DB for  
MariaDB

# Multiple products, many capabilities



Azure  
Service Bus



Azure Data  
Explorer



Azure  
Relay



Azure SQL  
Managed Instance



Azure Event  
Grid



Azure Event  
Grid



Azure Data Lake  
Analytics



Azure Stream  
Analytics



Synapse Spark



Azure  
Synapse Link



Azure  
Cache for Redis



Azure SQL  
DB Edge



Azure ML



Azure  
HDInsight

# Microsoft Recognition

## Data Integration

Figure 1: Magic Quadrant for Data Integration Tools



## Databases

Figure 1: Magic Quadrant for Cloud Database Management Systems



## Artificial Intelligence

Figure 1: Magic Quadrant for Cloud AI Developer Services



## Business Intelligence

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms



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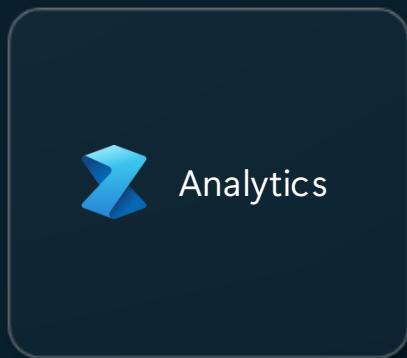
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# Microsoft Fabric

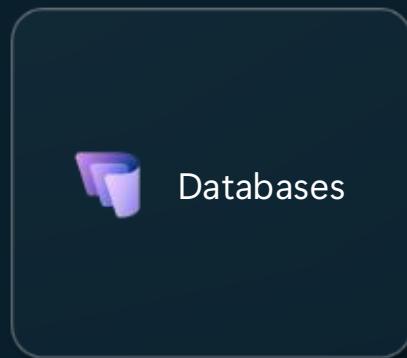
The unified data platform for AI transformation



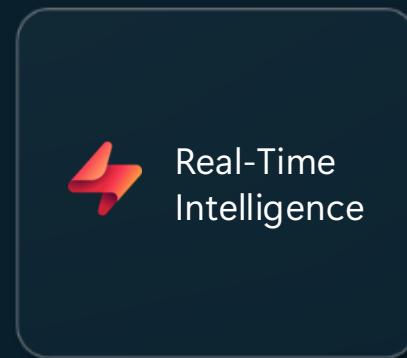
Data  
Factory



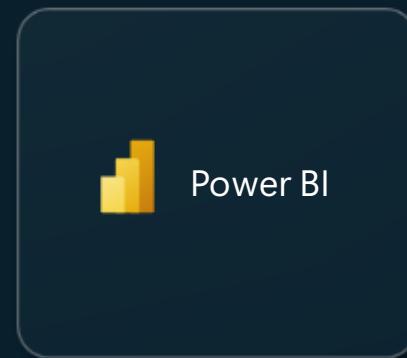
Analytics



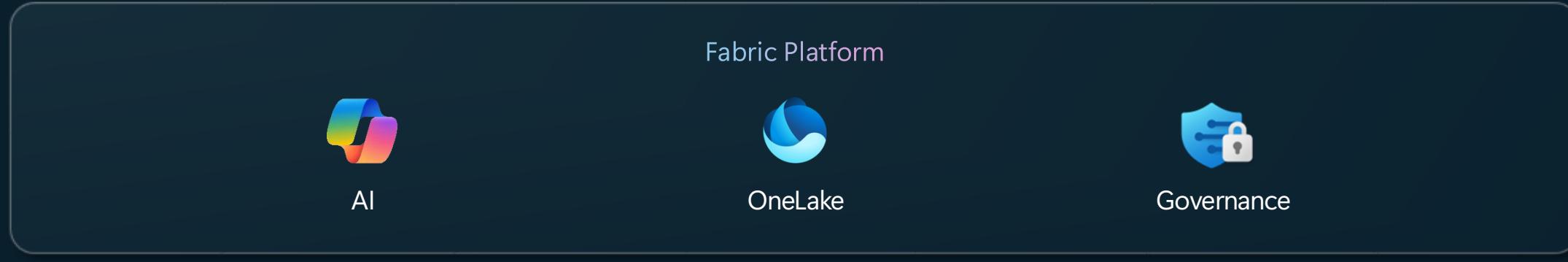
Databases



Real-Time  
Intelligence



Power BI



# Microsoft Fabric

The unified data platform for AI transformation



Data  
Factory



Connectors



Dataflows



Pipelines

Fabric Platform



AI



OneLake



Governance

# Microsoft Fabric

The unified data platform for AI transformation



Analytics



Data Engineering



Data Warehouse



Data Science



AI



OneLake



Governance

Fabric Platform

# Microsoft Fabric

The unified data platform for AI transformation



Databases



SQL Database  
Preview



Cosmos DB  
Preview



AI



OneLake



Governance

Fabric Platform

# Microsoft Fabric

The unified data platform for AI transformation



Real-Time  
Intelligence



Real-Time Hub



Eventstream



Event House



Activator

Fabric Platform



AI



OneLake



Governance

# Microsoft Fabric

The unified data platform for AI transformation



Power BI



Semantic Models



Exploration



Visualization



Chat

Fabric Platform



AI



OneLake



Governance

# Unify data in OneLake with zero ETL

Shortcut & mirroring sources

Generally available



Azure  
SQL DB



Azure Data  
Lake store



Microsoft  
OneLake



Google Cloud  
Storage



Microsoft  
Dataverse

**Snowflake**

Snowflake



Amazon S3



S3 Compatible  
(cloud/On-prem)



Databricks  
Catalog



Azure  
SQL MI



Azure Blob  
storage

Public preview



Azure  
Cosmos DB



Azure  
PostgreSQL



Oracle  
DB



SQL  
Server



Google  
BigQuery



SQL  
Server 2025

Google Cloud Select a project Search (/) for resources, docs, products, and more Search

Explorer + Add data LINEITEM

Search BigQuery resources Show starred only mirrorbugbash contosoproject-469422 mirrore2etest retailgbq tpch CUSTOMER\_1M LINEITEM LINEITEM\_5M LINEITEM\_60M NATION

LINEITEM Query Open in Share Copy Snapshot Delete Export Refresh

Schema Details Preview Table Explorer Preview Insights Lineage Data Profile Data Quality

Filter Enter property name or value

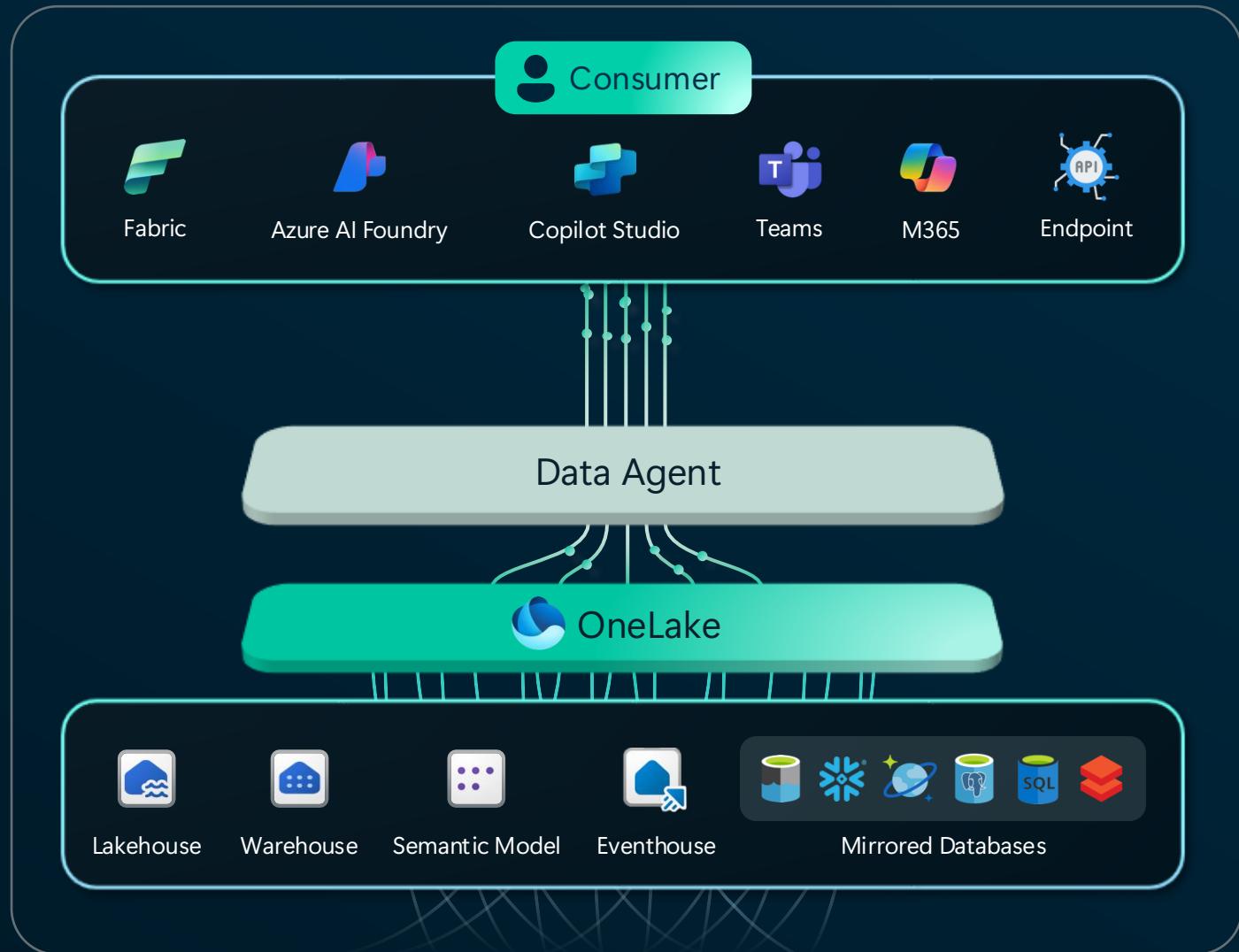
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	L_ORDERKEY	BIGNUMERIC	NULLABLE	PK	-	-	-	-	-
	L_PARTKEY	BIGNUMERIC	NULLABLE	-	-	-	-	-	-
	L_SUPPKEY	BIGNUMERIC	NULLABLE	-	-	-	-	-	-
	L_LINEBIGNUMERIC	BIGNUMERIC	NULLABLE	-	-	-	-	-	-
	L_QUANTITY	NUMERIC	NULLABLE	-	-	-	-	-	-
	L_EXTENDEDPRICE	NUMERIC	NULLABLE	-	-	-	-	-	-
	L_DISCOUNT	NUMERIC	NULLABLE	-	-	-	-	-	-
	L_TAX	NUMERIC	NULLABLE	-	-	-	-	-	-
	L_RETURNFLAG	STRING	NULLABLE	-	-	-	-	-	-
	L_LINESTATUS	STRING	NULLABLE	-	-	-	-	-	-
	L_SHIPDATE	DATE	NULLABLE	-	-	-	-	-	-
	L_COMMITDATE	DATE	NULLABLE	-	-	-	-	-	-
	L_RECEIPTDATE	DATE	NULLABLE	-	-	-	-	-	-
	L_SHIPINSTRUCT	STRING	NULLABLE	-	-	-	-	-	-
	L_SHIPMODE	STRING	NULLABLE	-	-	-	-	-	-
	L_COMMENT	STRING	NULLABLE	-	-	-	-	-	-

NATION Tap to open in current tab  
(Ctrl + Tap - open in new tab,  
Shift + Ctrl + Tap - open in split tab)

Edit schema View row access policies

Repository Preview Job history Refresh

# Fabric data agents



A virtual analyst that allows users to interact with enterprise data in OneLake

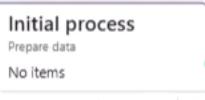
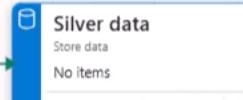
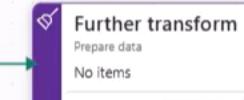
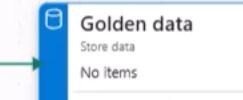
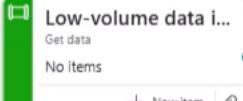
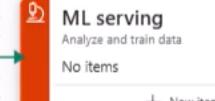
New Seamlessly reason over data in OneLake, including mirrored databases to create a powerful data expert tailored to your data domain

New Support for data agents in Git and deployment pipelines, enabling agent ops for more streamlined AI development

New Invoke data agents externally with detailed responses including SQL query execution steps

## Contoso Customer Sales NG ⚡

Workspace for Contoso Sales

[+ New item](#) [New folder](#) [Import](#)[Create deployment pipeline](#)[Create app](#)[Manage access](#)[Workspace settings](#)[Filter by keyword](#)[Filter](#)[More](#)[+ Add \(preview\)](#) High-volume data ...  
Get data  
No items Bronze data  
Store data  
No items Initial process  
Prepare data  
No items Silver data  
Store data  
No items Further transform  
Prepare data  
No items Golden data  
Store data  
No items Data visualize  
Visualize data  
No items Low-volume data i...  
Get data  
No items ML serving  
Analyze and train data  
No items

Name	Type	Task	Owner	Refreshed	Next refresh	Endorseme	Sensitivity	Included in app
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 Customer_Sales	SQL analytics...	—	Nellie Gustaf...	—	—	—	Confidential\...	①
 Data Preprocessing	Notebook	—	Nellie Gustaf...	—	—	—	Confidential\...	①
 PackageDeliveries	Eventhouse	—	Nellie Gustaf...	—	—	—	Confidential\...	①
 PackageDeliveries	KQL Database	—	Nellie Gustaf...	—	—	—	Confidential\...	①
 PackageDeliveries_queryset	KQL Queryset	—	Nellie Gustaf...	—	—	—	Confidential\...	①

# Fabric Data Days

## Get Certified

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<https://aka.ms/fdd/cert100>

**50% Discount: PL-300 & DP-900**

<https://aka.ms/fdd/cert50>

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<https://aka.ms/fabricdatadays/cert>



# Perth Microsoft Data, Analytics and AI



# Thank you!



## Q&A



 /sergiozenatti