

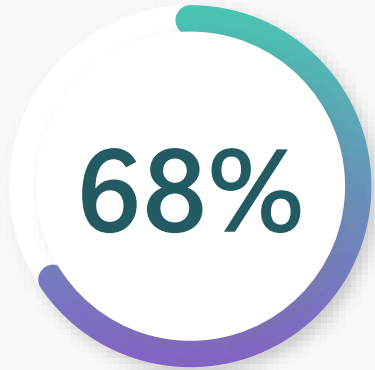


Microsoft Fabric

Microsoft Fabric

Prepare your data for AI innovation

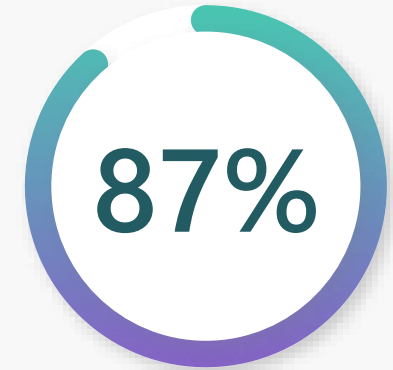
The future of AI is here



of leaders agree
unifying their data
platform for analytics
and AI is crucial for their
enterprise data strategy



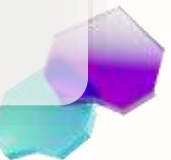
even a 10% boost in data
usability could mean over
\$2 billion more annual
revenue for the average
Fortune 1000 company



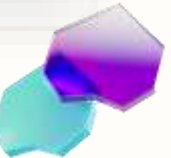
of organizations believe
AI will give them a
competitive edge

Source: [MIT Sloan Management Review](#)

Source: [Databricks: CIO vision 2025, Bridging the gap between BI and AI](#)

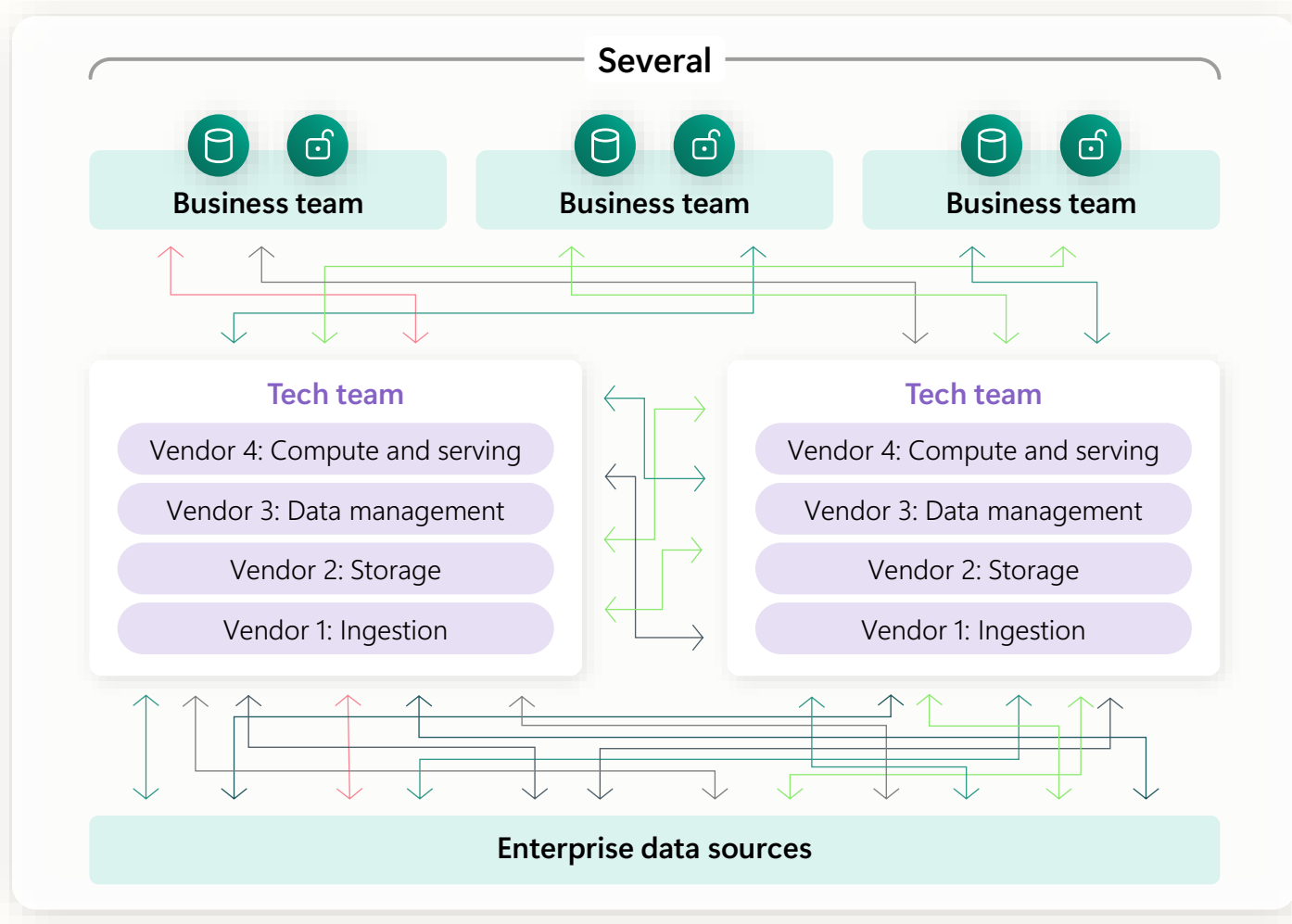


**CIOs are accelerating
their efforts to bring AI to
their data estate**

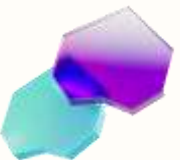


AI will only exacerbate your existing data issues

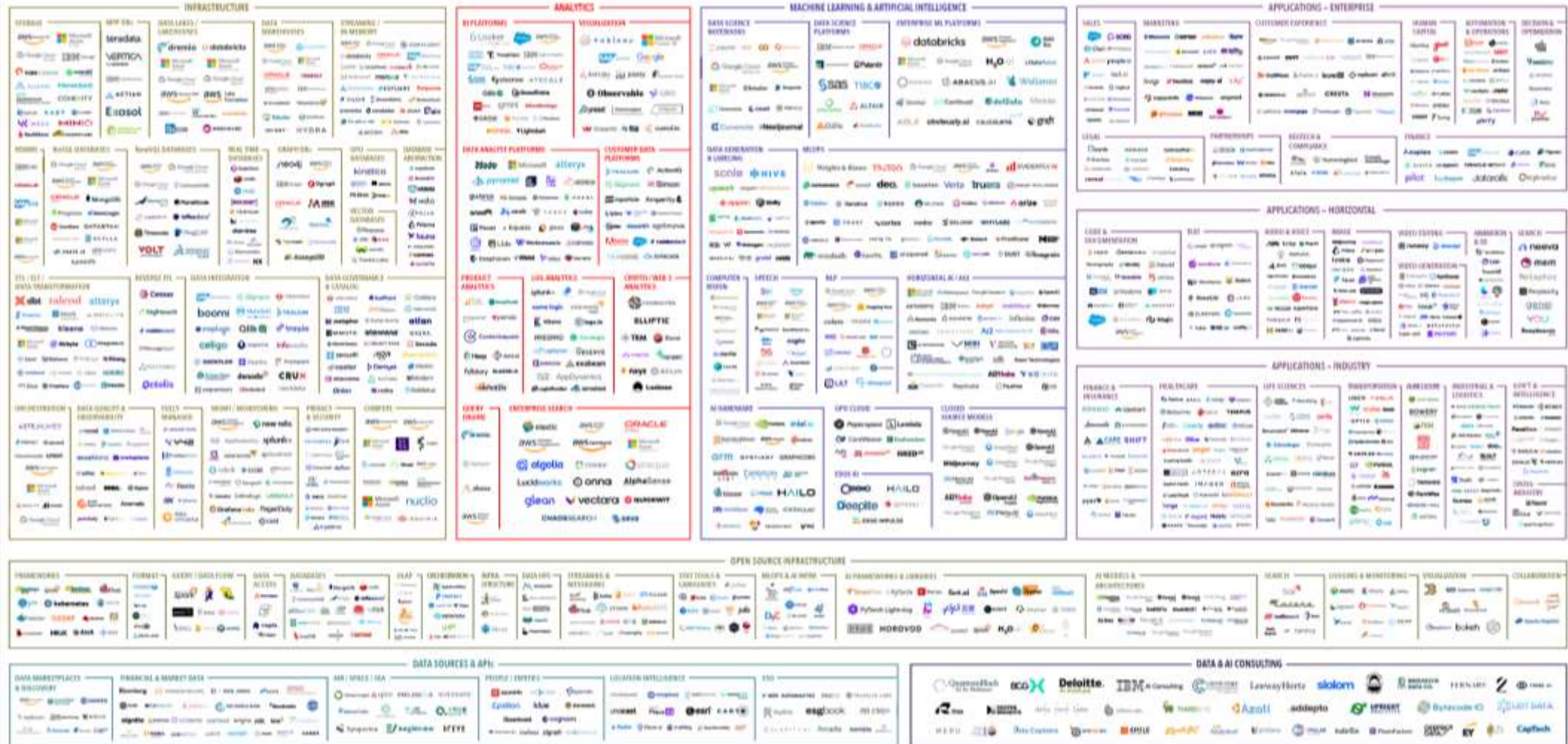
A complex, organically evolved data estate



- 1 Data copies and infrastructure inefficiencies
- 2 Limited interoperability between vendor services
- 3 Data exposure risks



Customers enhancing their data estate face immense complexity



Version 1.0 - Feb 2023 © Matt Turek (@mattturek), Kevin Zhang (@ykevinzhang) & FirstMark (@firstmarkcap) Blog post: mattturek.com/MAD2023 Interactive version: MAD.firstmarkcap.com Comments? Email MAD2023@firstmarkcap.com **FIRSTMARK** EARLY STAGE VENTURE CAPITAL

Azure Data

Transform your data into your competitive edge

Comprehensive

Secure

Integrated

Optimize for your needs

Turnkey

Control and Customization



Microsoft Fabric



Azure Databricks

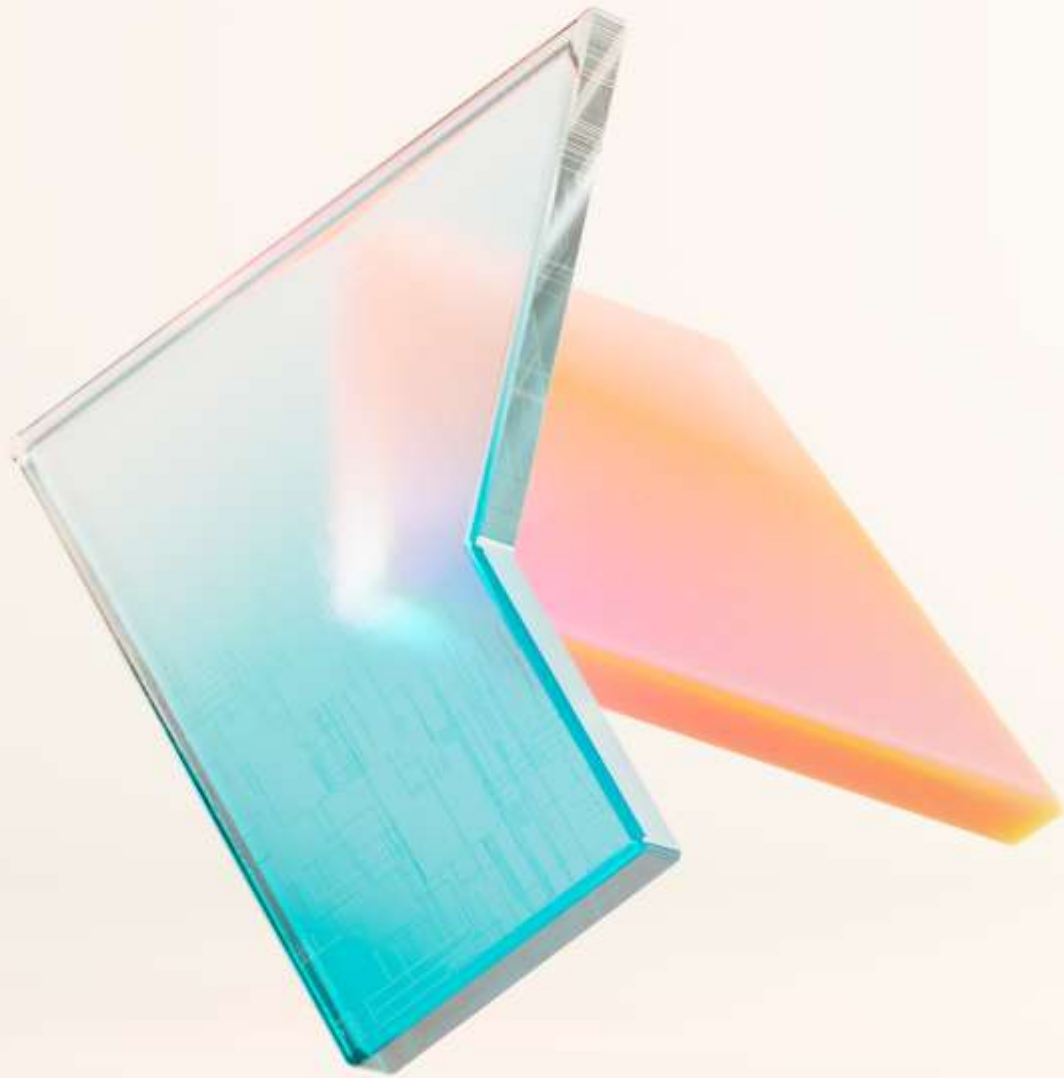


Azure Databases



ORACLE





Introducing Microsoft Fabric



Microsoft Fabric

The data platform for the era of AI

From

Multiple analytics services

Disconnected data sources

Isolated application

Gen AI bolt on

To

» Unified stack

» All the data in one place

» Entire estate

» Gen AI built in



Microsoft Fabric



**Data
Factory**



**Real-Time
Intelligence**



Databases



Analytics



**Industry
Solutions**



Power BI



**Partner
solutions**



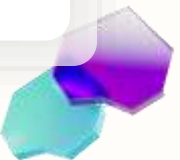
Copilot in Fabric

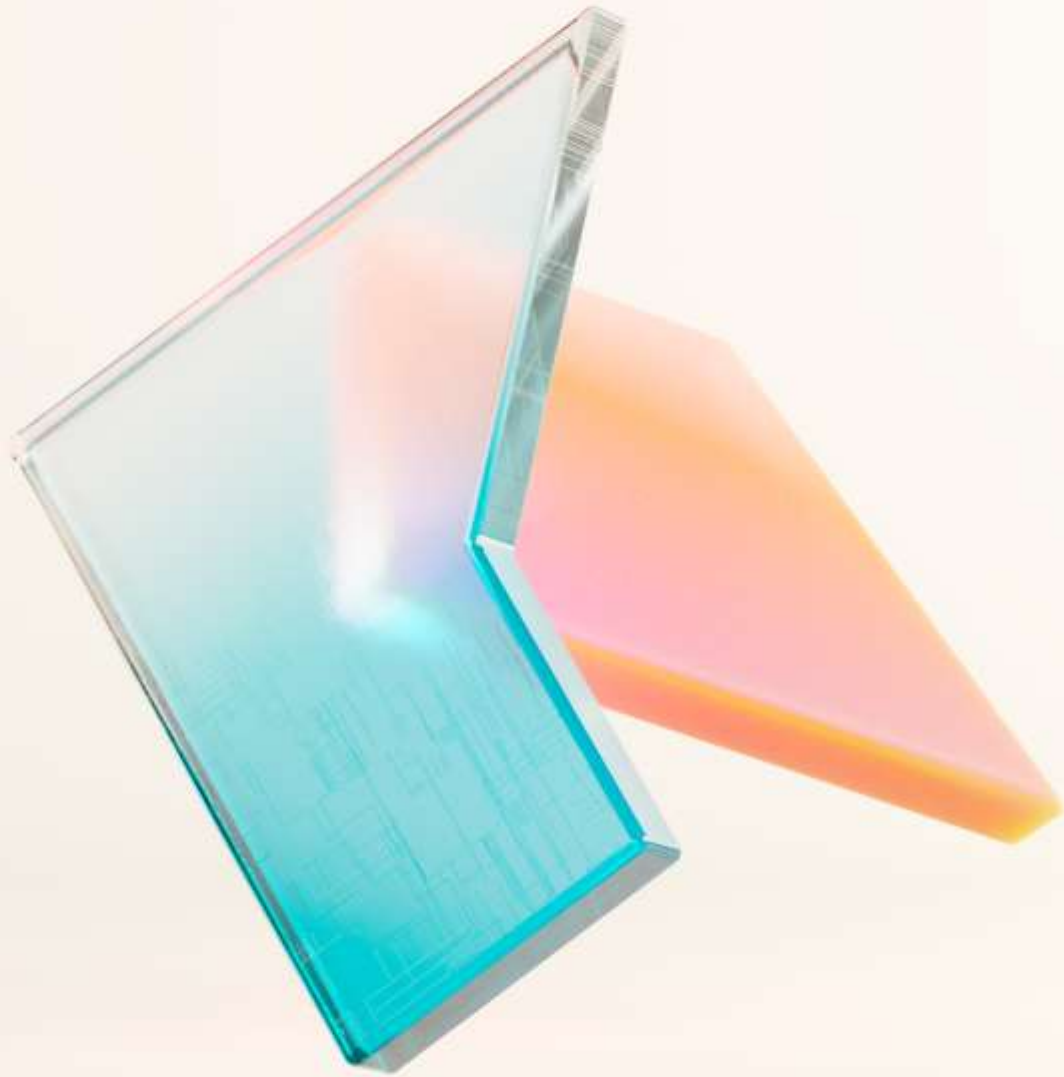


OneLake



Microsoft Purview





See how others
are already using
Microsoft Fabric

One NZ democratizes data access, enabling customer support with Microsoft Fabric Real-Time Intelligence



Previously, you needed to be a data engineer or scientist to access and understand customer information. Now we're making it user-friendly, so anyone can easily make data-driven decisions.

– Strathan Campbell, Channel Environment Technology Lead, One NZ

Situation

Seeking to improve customer experience, New Zealand telecom giant, One NZ, wanted to take its performance to the next level. Increasing data volumes were leading to delayed refresh rates and One NZ needed a solution with real-time data and analytics capabilities they could easily implement with their existing systems.

Solution

One NZ selected Microsoft Fabric's Real-Time Intelligence (RTI) and went from concept to delivered product in just two weeks. Using event streams to ingest data from external data sources and run analytics on top of its real-time streaming data, One NZ was able to generate immediate actions on their data for quicker decision-making.

Impact

With Microsoft Fabric's RTI, One NZ has improved overall customer experience. All teams have access to high quality data that can be used in ML models, plus, dashboards are updated 6x faster than before, so agents can identify customer behavior patterns and respond to customers more quickly than ever.

[Read full story here](#)





Milliman enables self-service actuarial modeling and mitigates business risk with Microsoft Fabric



Milliman is tremendously excited about Microsoft Fabric. We see that Microsoft Fabric will be critical for our professionals and insurance industry clients to realize the full potential of AI to protect the health and financial well-being of people everywhere.

– Ken Mungan, Chairman, Milliman

Situation

Milliman needed a modernized data analytics platform for actuaries to build custom data pipelines and quickly and accurately analyze terabytes of data.

Solution

Milliman leveraged Microsoft Fabric as their all-in-one analytics solution. They centralized all data and analytics workloads on a single, open, governed foundation, enabling actuaries with self-service analytics tools to build AI, analytics applications and ML models easily on a data lake-based architecture for near real-time insights.

Impact

Milliman's new unified infrastructure expedites data access, while Fabric's OneLake storage system means fewer data copies, making for more efficient reporting and reduced latency and cost.

[Read full story here](#)





Aurizon uses Microsoft Fabric to take advantage of its data streaming functionality and AI and ML capabilities



We're also benefiting greatly from the data streaming capability of Microsoft Fabric and consumption through Direct Lake in Power BI as an answer to HANA's virtual modeling capability, allowing us even greater scalability.

– Chris Nunn, Principal Data Engineer, Aurizon

Situation

Having already fitted majority of its fleet with telemetric sensors relaying data to Microsoft Fabric, Australian freight rail operator, Aurizon, wanted to reimagine its entire analytics estate and move from traditional data warehousing to a modern, scalable analytics platform, so it could get the most out of its data.

Solution

Instead of selecting several tools for this modernization effort, Aurizon chose Fabric as its single, unified data and analytics platform, in which the streaming architecture allows for direct data consumption without duplicating data (using Direct Lake mode in Power BI), replacing the need for Aurizon to create and maintain datasets in the future.

Impact

Having brought its enterprise data and telemetry data together in Microsoft Fabric, Aurizon has seen performance gains up to 240x. Aurizon plans to use Azure Machine Learning and Copilot in Microsoft Fabric to continue to drive better outcomes for customers using data and predictive analytics to transform business practices.

[Read full story here](#)





ZEISS Group uses Microsoft Fabric to advance innovation with data analytics and AI



Data sharing is key, and eVA, supported by Fabric on Azure, could provide the foundation for a trusted analytics solution that we can easily share across our business units.

- Markus Morgner, Head of Enterprise Data Platform & Engineering, ZEISS Group

ZEISS Group is committed to scaling AI innovation for its advanced optical solutions, products and digital offerings.

Situation

The team needed a modern analytics solution to streamline its analytics workflows and provide internal business units with frictionless access to information.

Solution

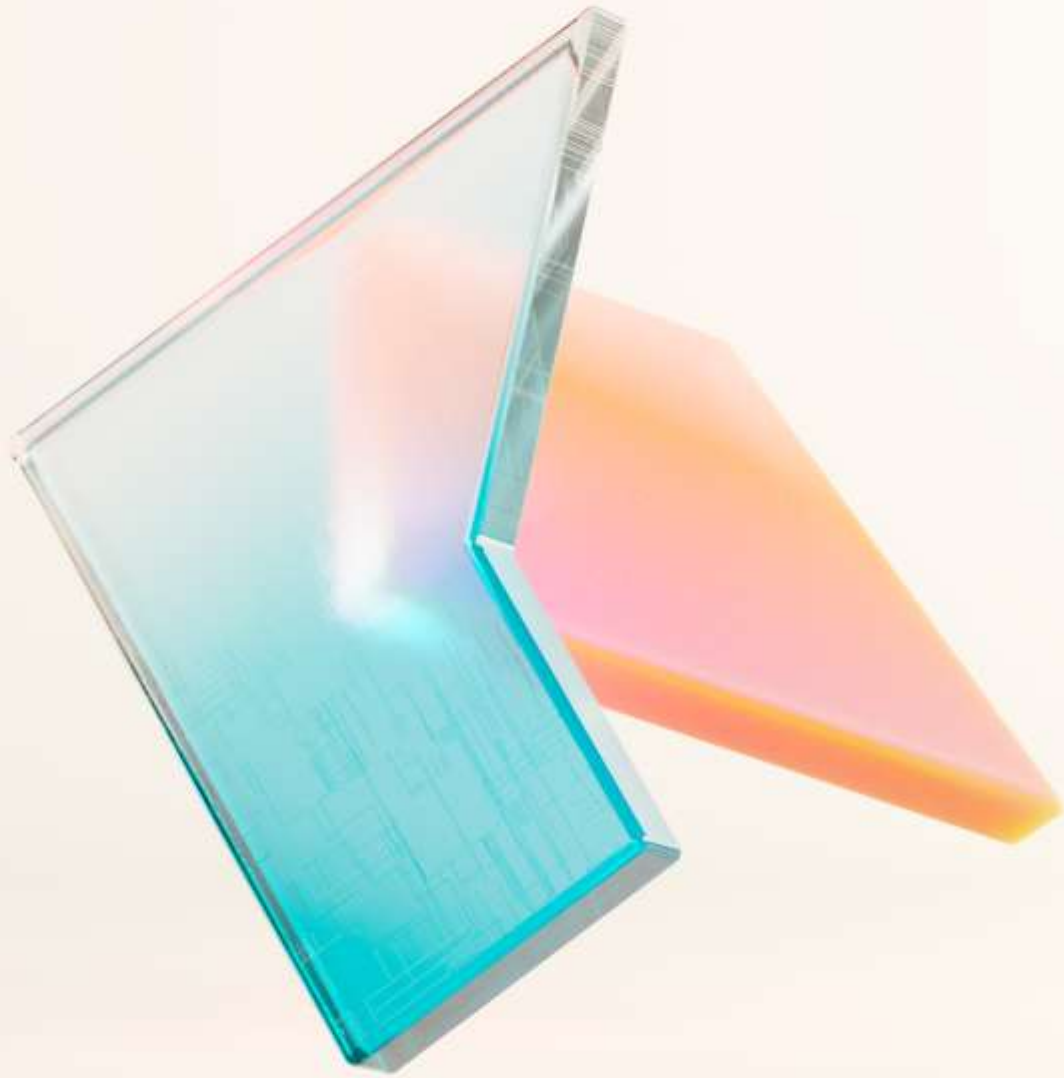
ZEISS Group leveraged Microsoft Fabric to connect and combine all its business data in a unified and governed hub without duplication or movement.

Impact

Their new solution has allowed teams to increase use of AI and be more insight-driven, reducing the time to create new products and enabling business growth with self-service capabilities.

[Read full story here](#)





Microsoft Fabric
capabilities



Microsoft Fabric

The data platform for the era of AI

AI-powered data platform

Give your data teams all the AI-powered tools they need for any project in an optimized SaaS environment.

Open and AI-ready data lake

Access your entire multi-cloud data estate from a single data lake and ensure data is ready to power AI innovation.

AI-enabled business users

Empower everyone to better understand data with AI-enhanced experiences and visuals embedded in the apps they use everyday.

Mission critical foundation

Deploy and manage Fabric with category-leading performance, instant scalability, shared resilience, and built-in security, governance, and compliance.



AI-powered data platform

Give your teams the AI-powered tools needed for any data project in an optimized SaaS environment



Accelerate time to value with a SaaS experience that requires minimal set-up, is automatically optimized and integrated, and has a single pool of capacity to power every workload.

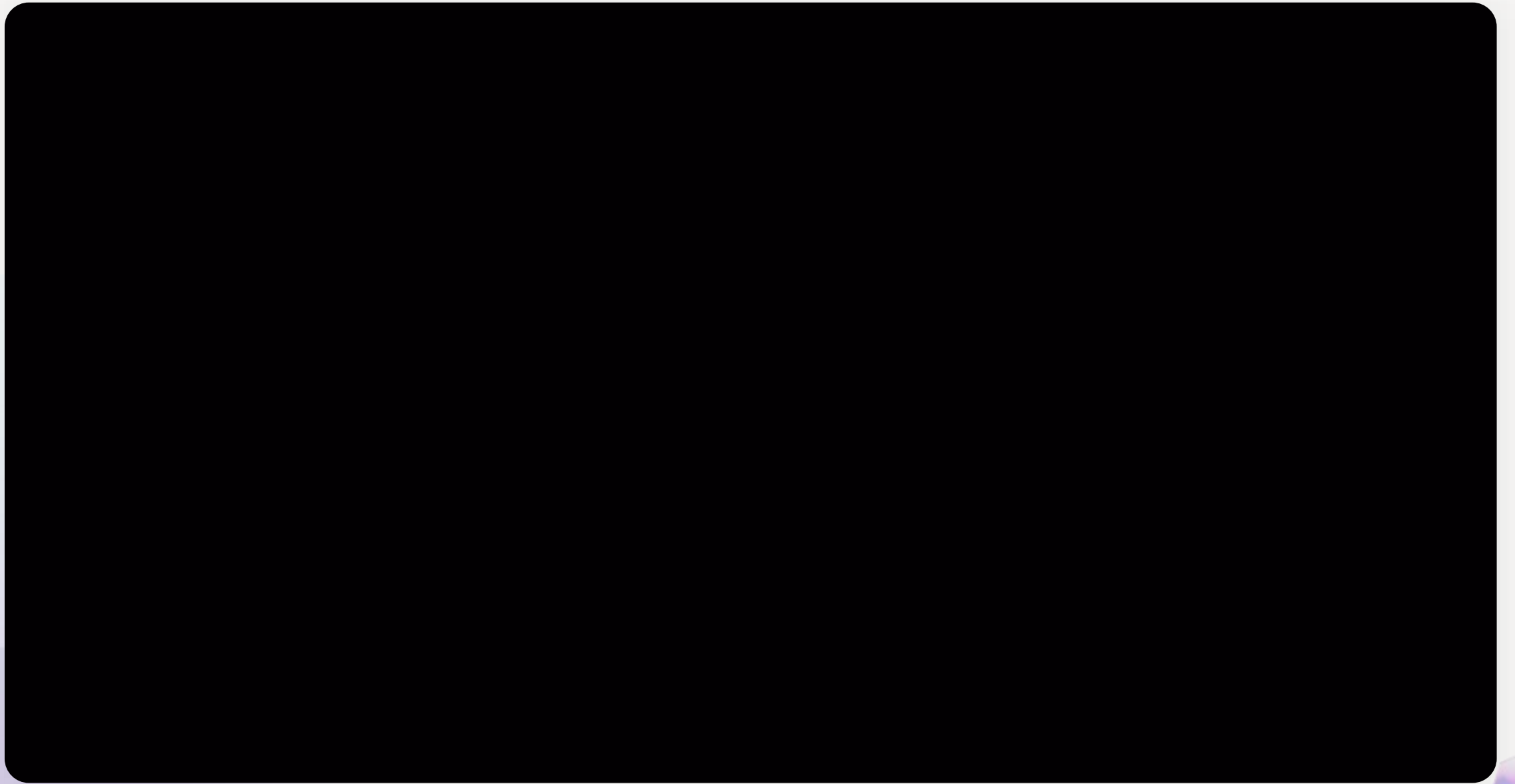


Empower data engineers, data scientists, analysts, and business users with AI-powered tools that help them get more done in less time.



Create powerful, insight-driven apps at cloud scale with a simplified, translytical, SaaS database experience that unites transactional, analytical workloads.





Open and AI-ready data lake

Access your entire multi-cloud data estate from a single data lake and ensure data is ready to power AI innovation



Unify your multi-cloud and on-premises data with OneLake, enabling a single copy to power multiple analytics engines while reducing duplication and data movement.

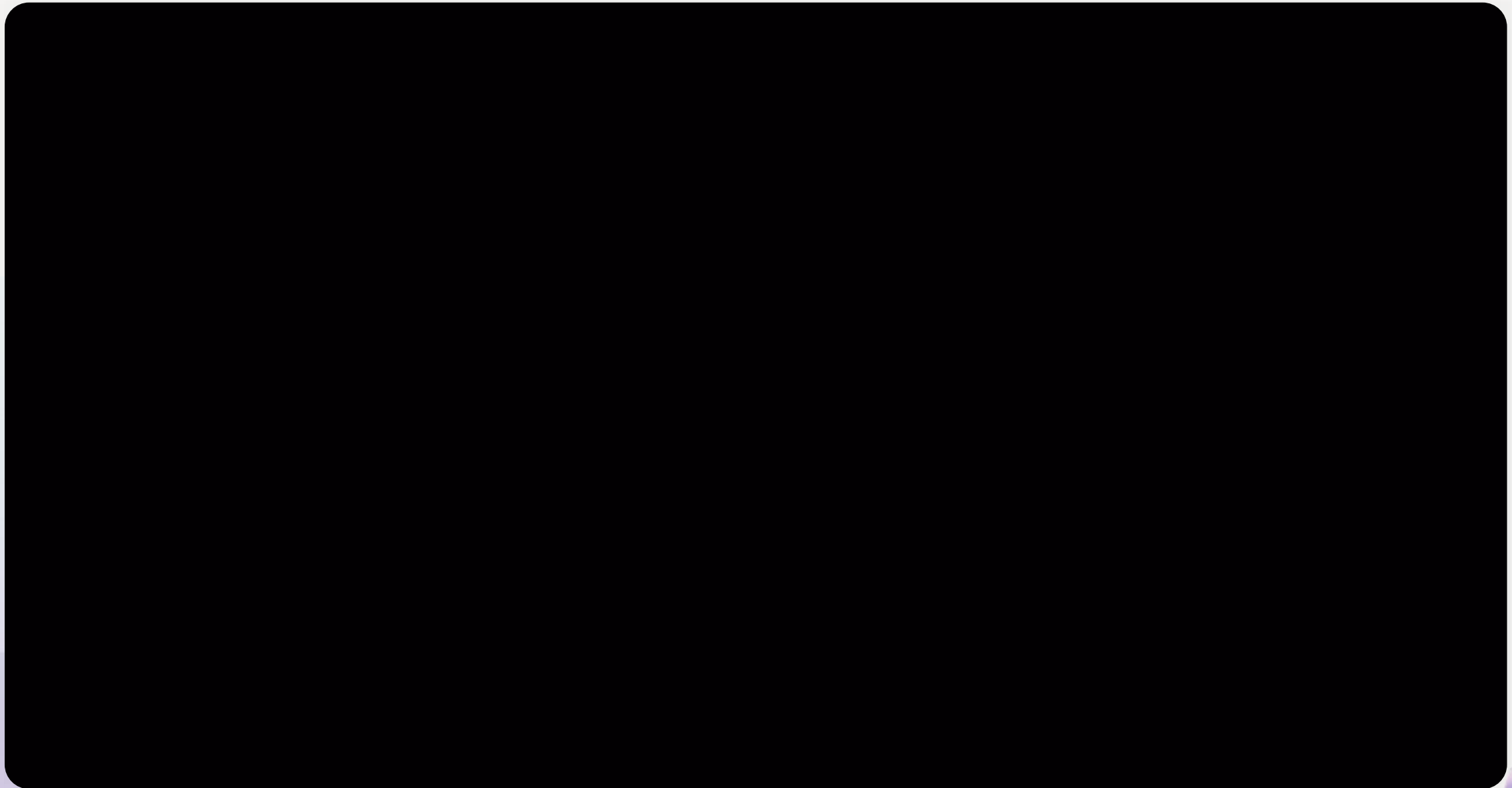


Ingest structured and unstructured data of any format into OneLake's open Delta Parquet format and even access third-party tools from industry leaders built directly into Fabric.



Ensure everyone has access to the right data with a central data lake that spans the entire organization and intuitive data management and discoverability tools.





AI-enabled business users

Empower everyone to better understand data with AI-enhanced experiences and visuals embedded in the apps they use everyday



Save time for analysts and provide up-to-date insights with tools like Copilot in Fabric and Direct Lake mode.

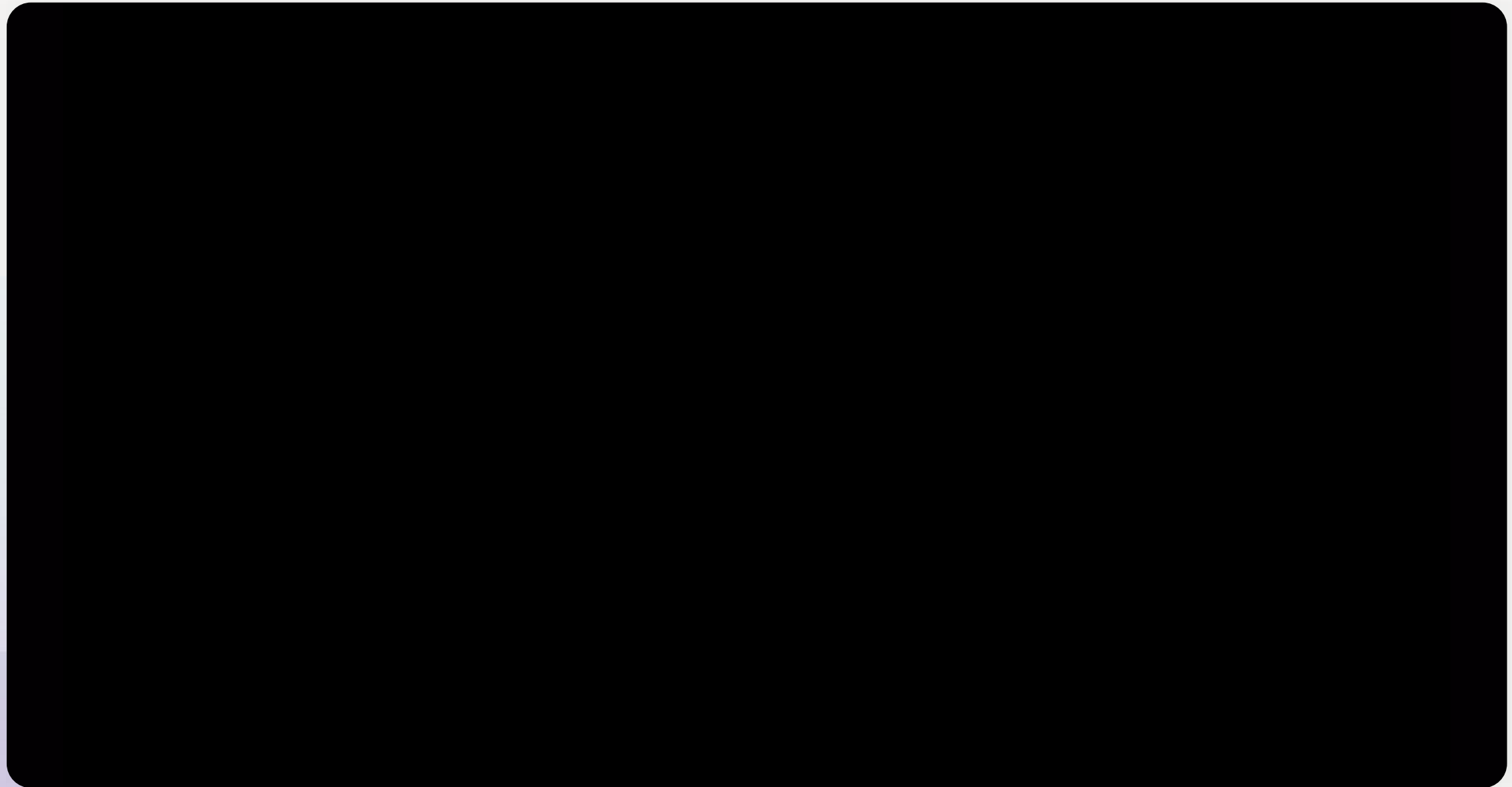


Empower business users to quickly answer questions and understand the most important insights in a Power BI report by simply asking Copilot.



Foster a data-driven culture by seamlessly and securely embedded insights into Teams, Excel, PowerPoint, Outlook, and more with native integration.





Mission critical foundation

Confidently deploy and manage Microsoft Fabric with category-leading performance, instant scalability, shared resilience, and built-in security, governance, and compliance



Design mission-critical systems on Fabric with a resilient foundation built on world-class infrastructure and built-in BCDR resilience tools.



Manage and govern data across a unified platform with industry-leading security and built-in federated governance tools.



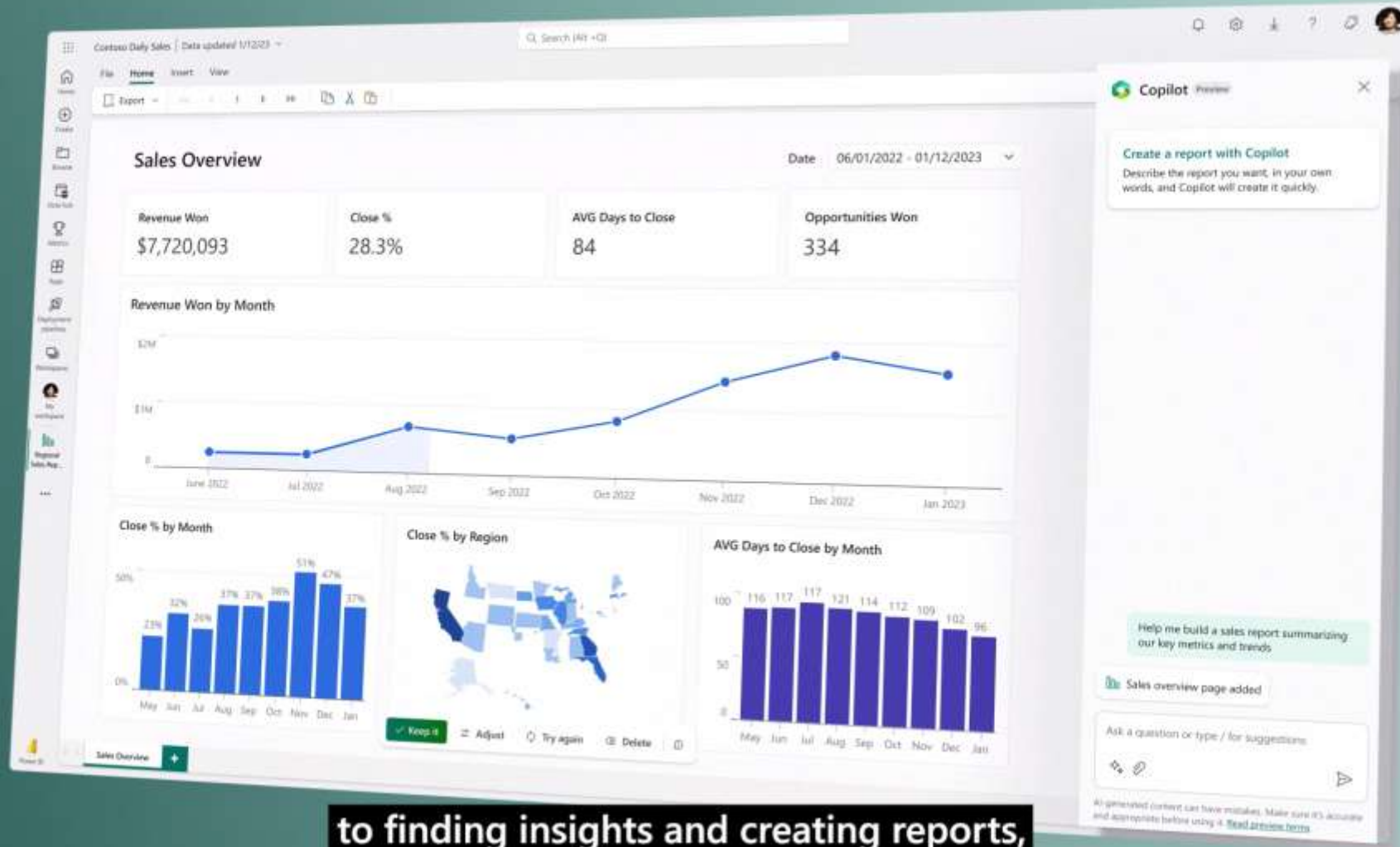
Process massive amounts of data with industry-leading performance across analytics engines.



Placeholder updated Mission Critical Foundation demo video

to finding insights and creating reports,





to finding insights and creating reports,



Build your own powerful Gen AI experiences



Microsoft Fabric

Your unified
solution for
analytics

Enhance data insights

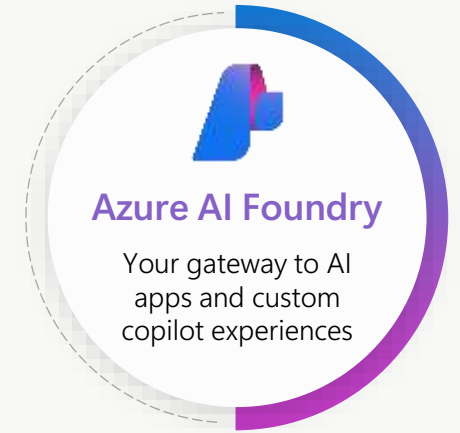
Build enterprise chat applications to uncover insights using natural language from structured, unstructured, and real-time data

Analyze customer interactions

Build speech analytics applications to enhance customer service, tailor support responses, and make data-driven decisions

Customize machine learning models

Train, deploy, and orchestrate machine learning models tailored to specific business needs—from predictive maintenance to customer sentiment analysis



Azure AI Foundry

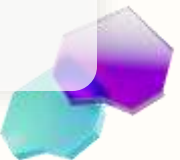
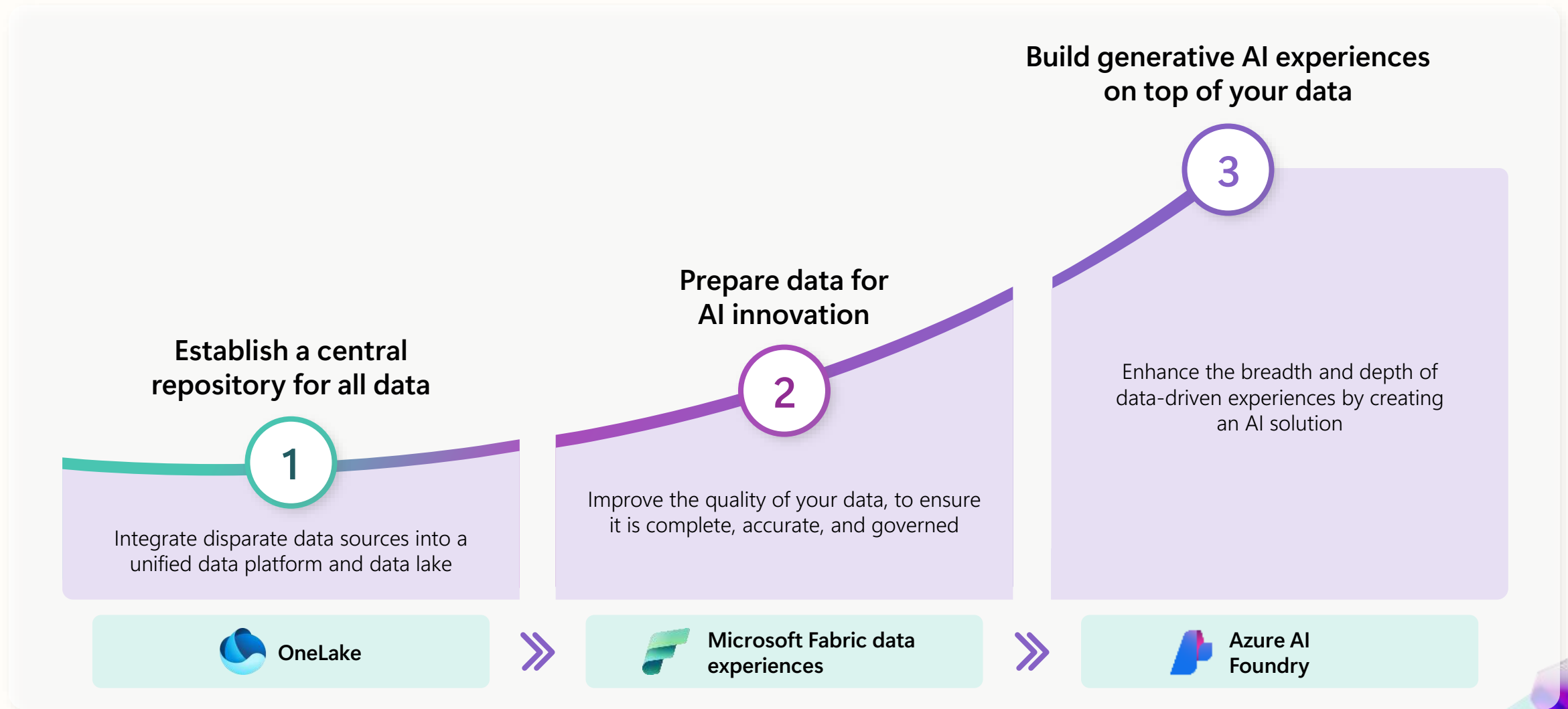
Your gateway to AI
apps and custom
copilot experiences

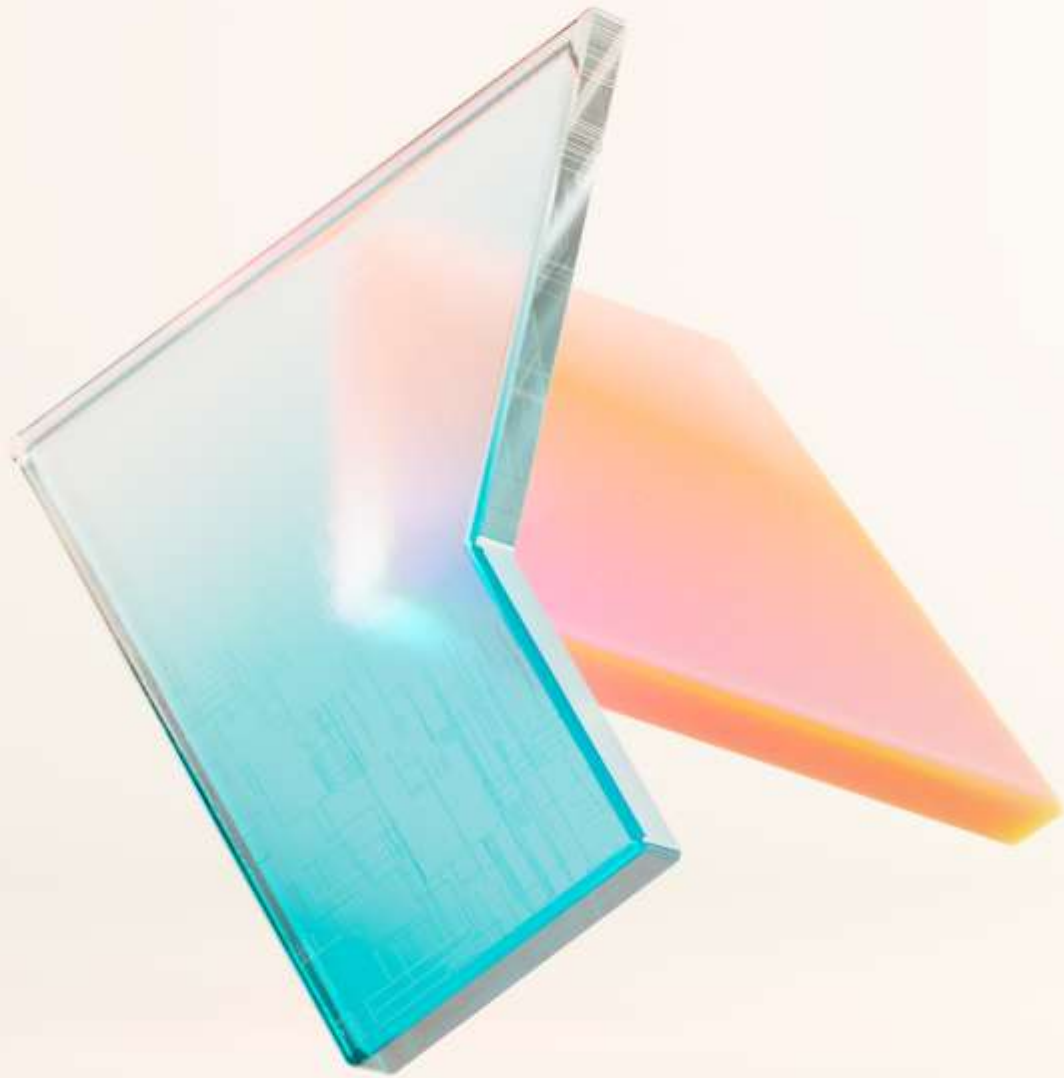


OneLake serves as the connective tissue to build generative AI apps powered by your data



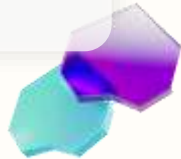
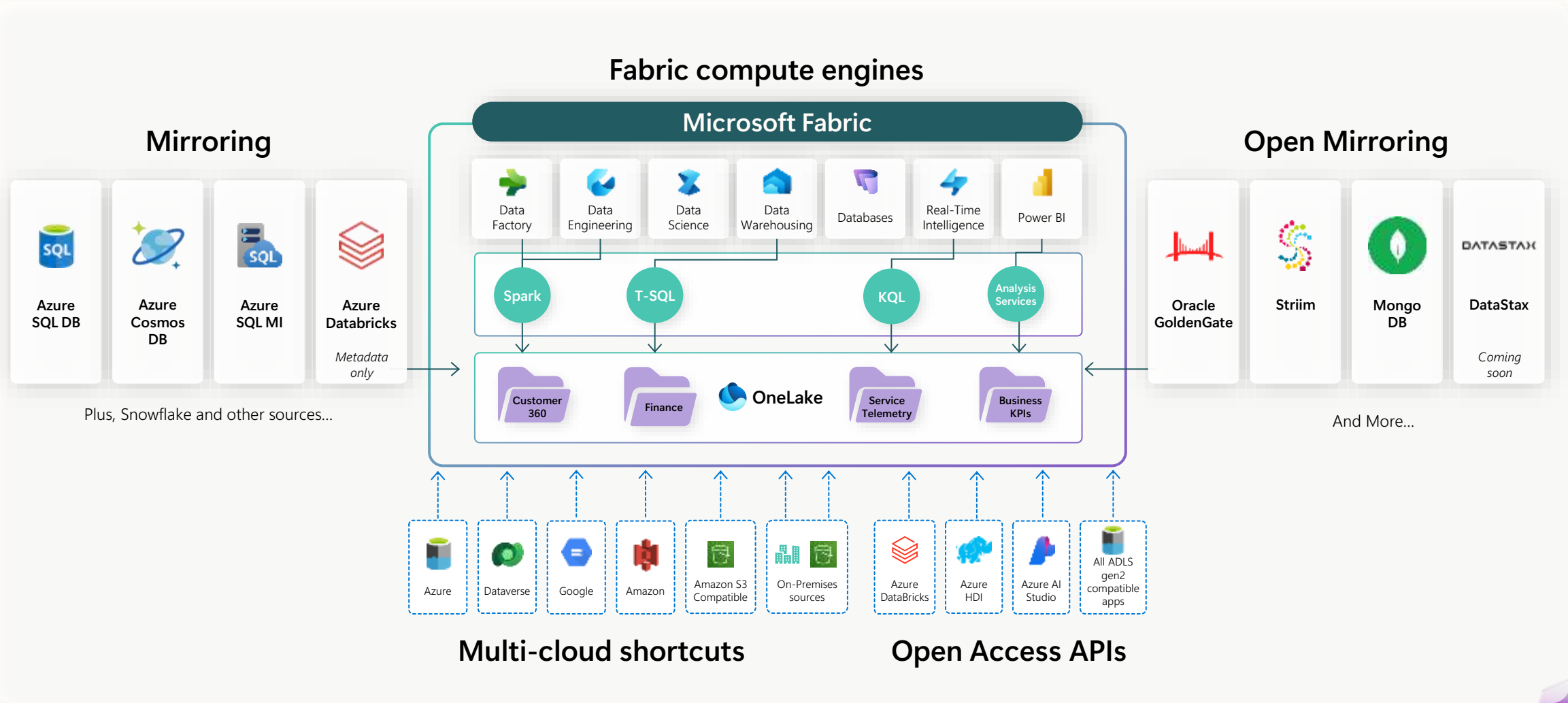
Fuel your journey to AI innovation by getting your data AI ready



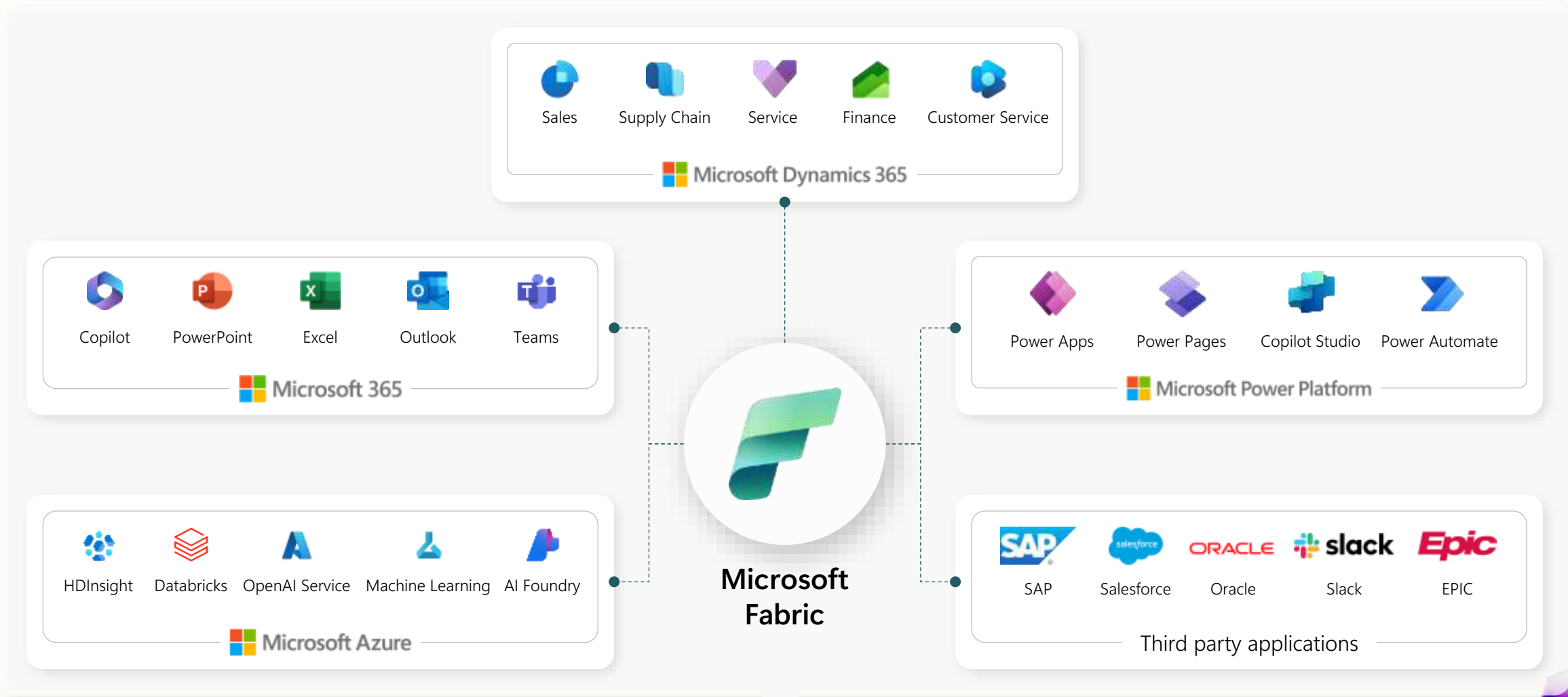


Microsoft Fabric
integrates with
your existing stack

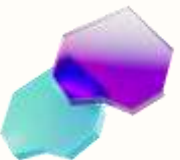
Bring in data from anywhere

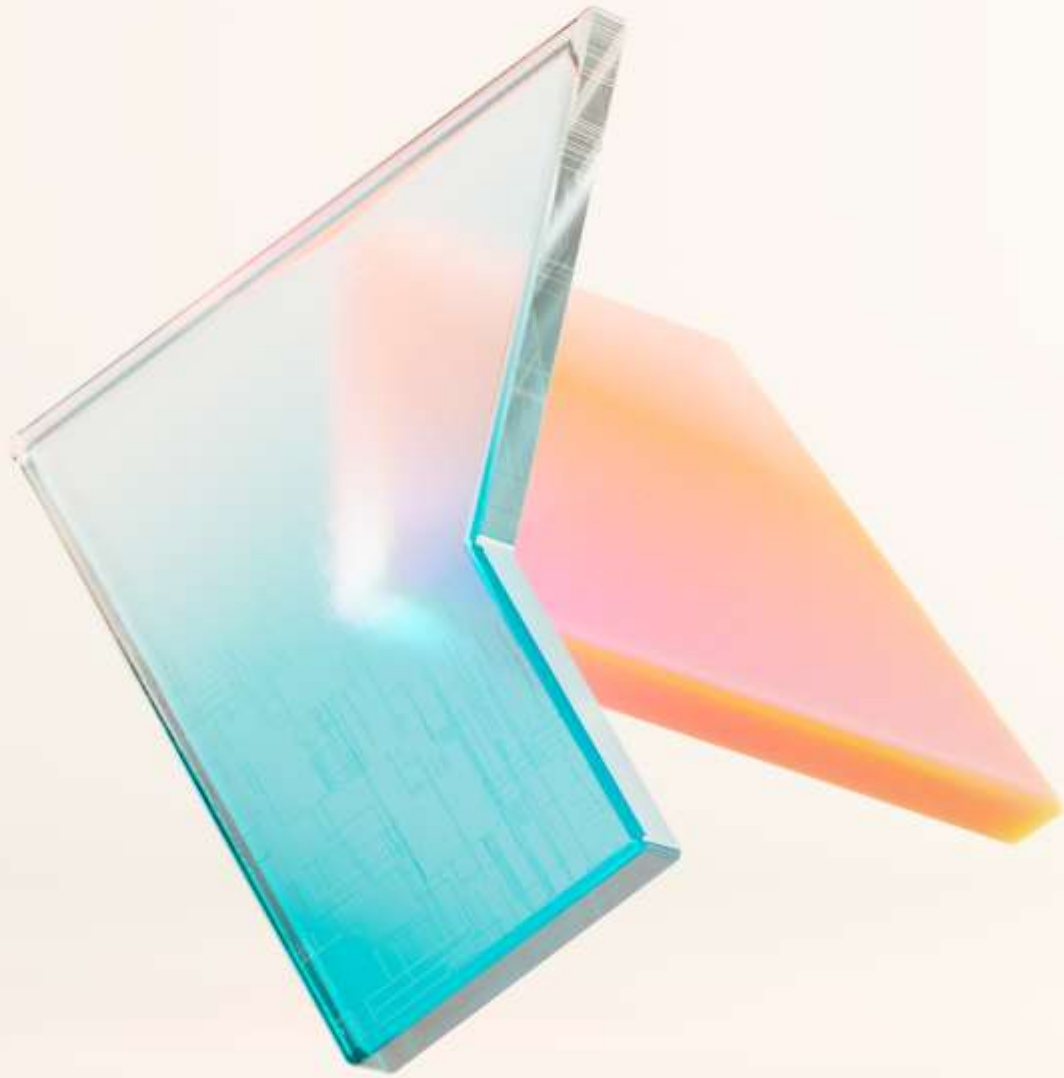


Put your insights into the hands of your people



All while ensuring your data is secure and governed

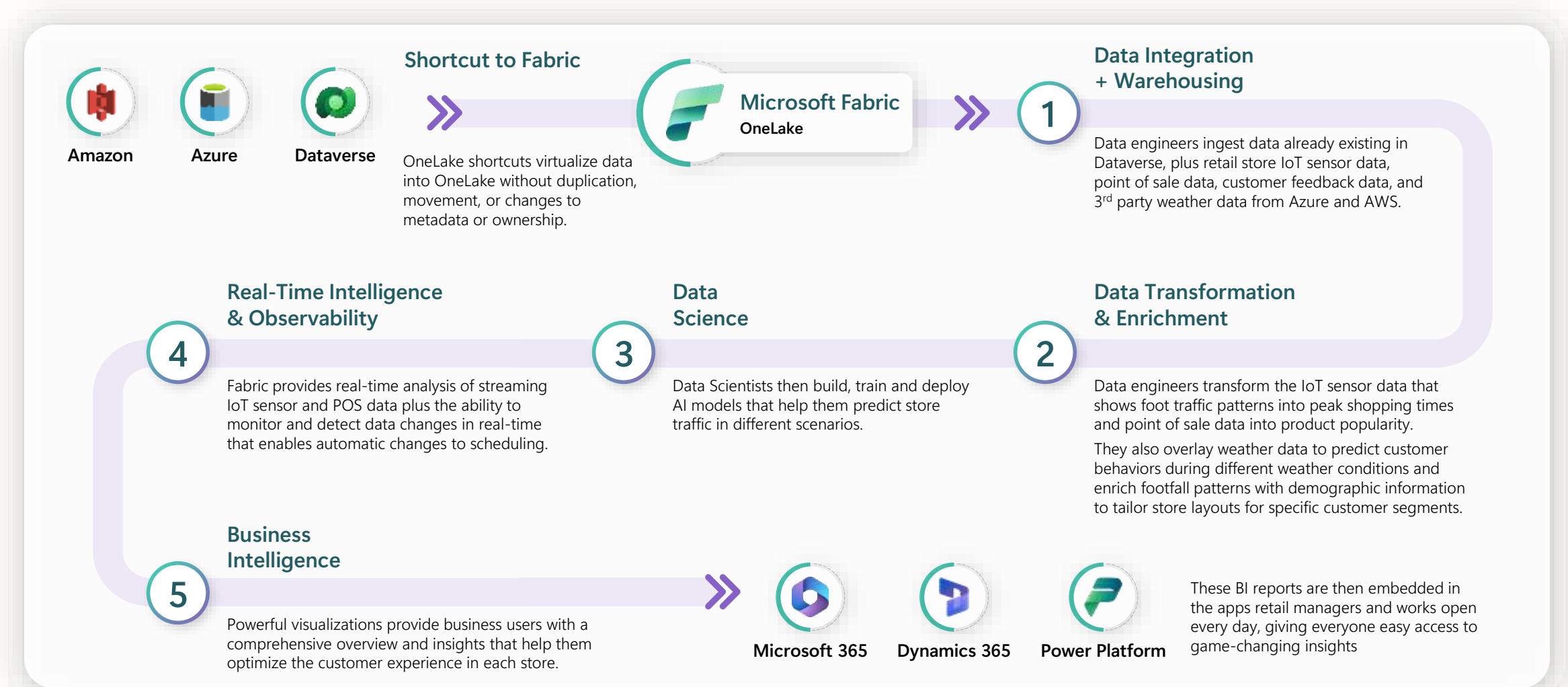




Illustrative
example

An illustrative retail example

Microsoft Fabric workloads in action



Synapse Data Warehouse

https://dxt.powerbi.com/groups/c37405b7-4abf-4220-aa77-f253369c3d28/list?experience=data-warehouse

Microsoft DXT | Synapse Data Warehouse | Contoso Outdoors

Search

Trial 10 days left

Create deployment pipeline | Create app | Manage access | Workspace settings

+ New | Upload

Add (preview)

Source control | Filter by keyword | Filter

Contoso Outdoors

Real-Time Data Fe...
Get data
4 items
+ New item

Batch Data Load
Get data
2 items
+ New item

Anomaly Detection
Track data
No items
+ New item

Lakehouse
Store data
9 items
+ New item

Data Clensing
Prepare data
1 item
+ New item

Forecasting & Enri...
Develop data
1 item
+ New item

Analyze and train
Analyze and train data
3 items
+ New item

AI Models
Analyze and train data
1 item
+ New item

Reporting & Visual...
Visualize data
6 items
+ New item

Track
Track data
3 items
+ New item

General

Task flow details

This task flow guides you through the completion of high-level data processing tasks within Fabric and the items typically assigned to them.

Edit

Tasks

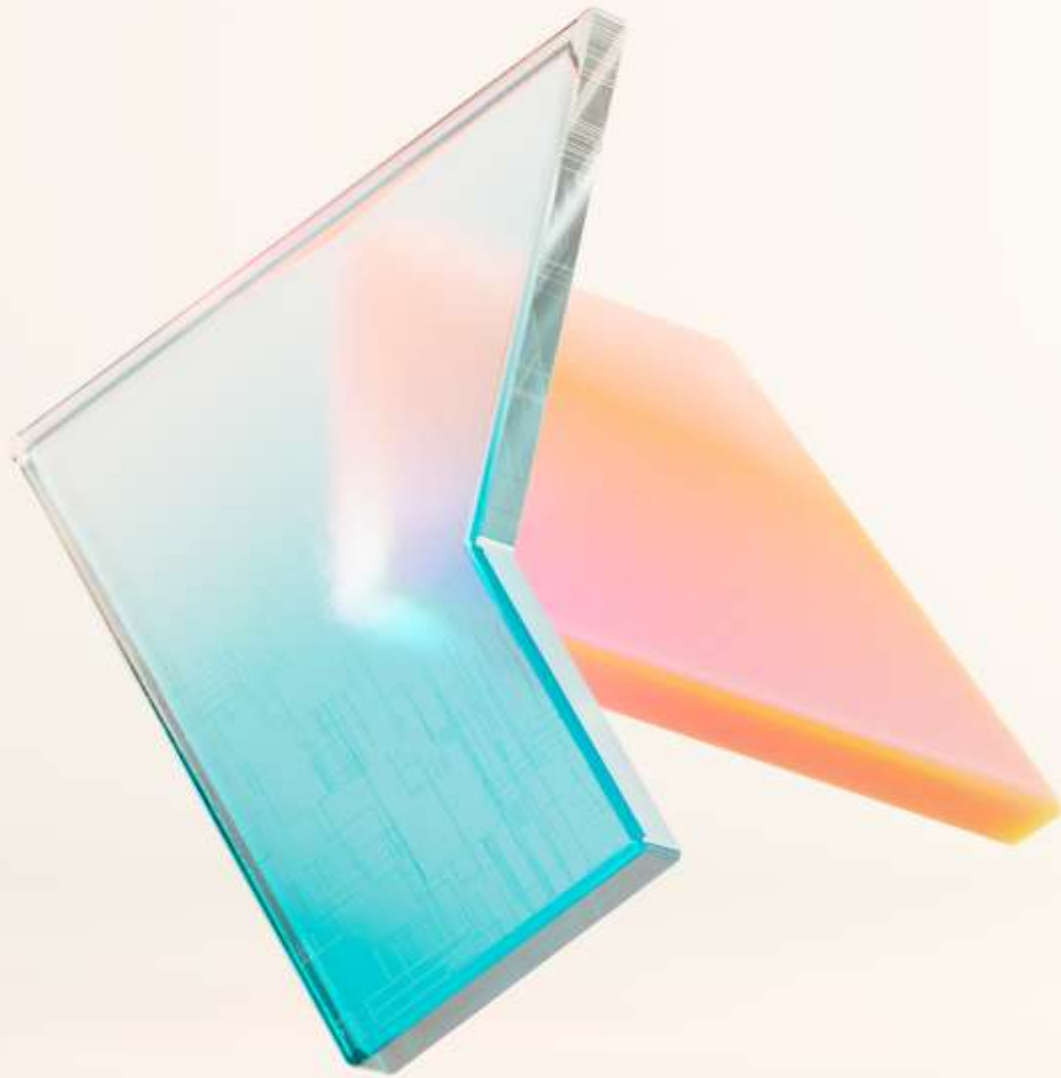
10 Tasks

- Batch Data Load
- Lakehouse
- Analyze and train
- Data Clensing

Name	Git status	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Included in app
aisample-superstore-forecast	Unsupported	Experiment	Analyze and t...	Patrick Baumgar...	—	—	—	Confidential/Mic...	
aisample-superstore-forecast-Sarimax	Unsupported	ML model	Analyze and t...	Patrick Baumgar...	—	—	—	Confidential/Mic...	
Contoso_OutdoorsDataLake	Synced	Lakehouse	Lakehouse	Patrick Baumgar...	—	—	—	Confidential/Mic...	
Contoso_OutdoorsDataLake	—	Semantic model ...	Lakehouse	Contoso Outdoors	10/31/23, 1:08:56 AM	N/A	—	Confidential/Mic...	
Contoso_OutdoorsDataLake	—	SQL analytics en...	Lakehouse	Contoso Outdoors	2/4/24, 3:28:14 PM	N/A	—	Confidential/Mic...	

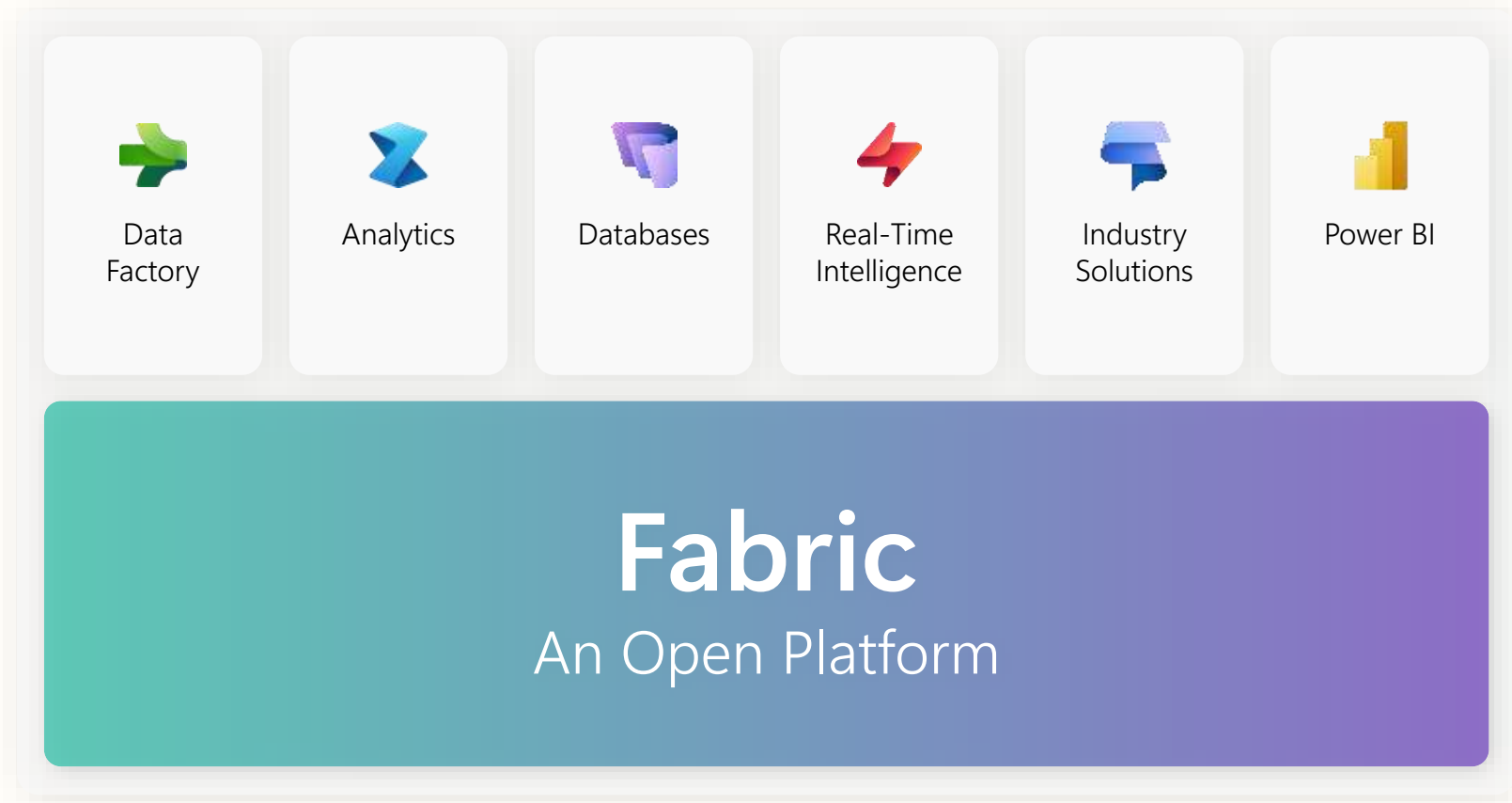
Data Warehouse

Last synced: 6/17/2024 at 3:54 AM | 4e173a50



Extend Fabric with
Microsoft Industry
and ISV solutions

The Power of the Platform



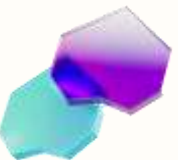
Open Formats



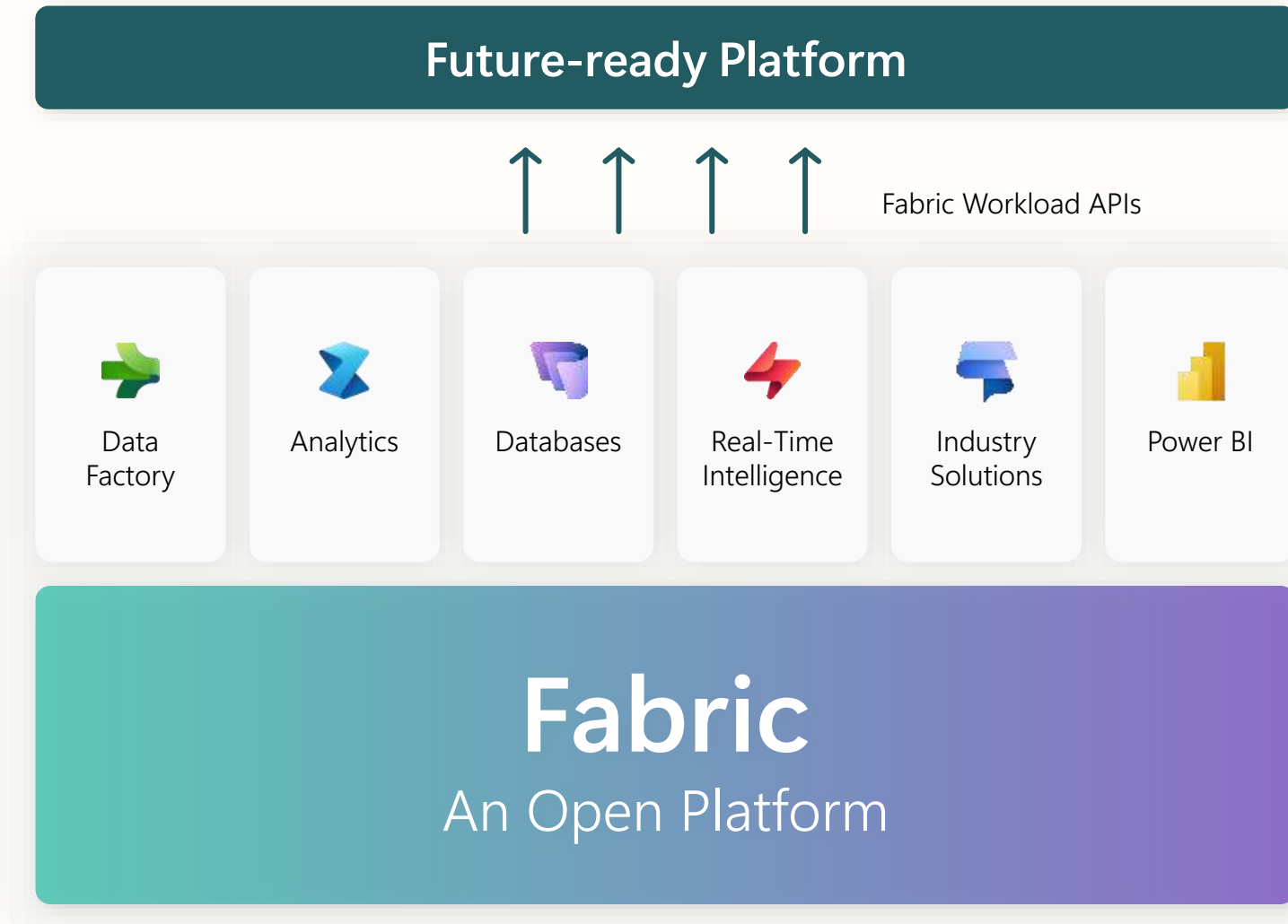
Open Interfaces and APIs



Open Platform

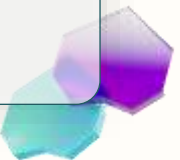


Build a future-ready platform with range of APIs



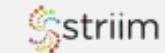
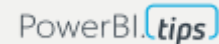
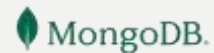
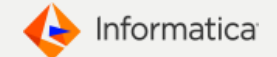
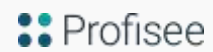
Popular Fabric APIs

- T-SQL Endpoints (GA)
- Kusto Query Language – KQL (GA)
- OneLake APIs (GA)
- GraphQL API (GA)
- User Data Functions Endpoint (Private Preview)

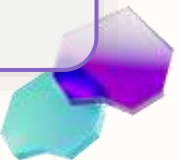


Microsoft Fabric ISV momentum

Public Preview



And many more!



Accelerate the transformation of your data into business value with Industry solutions in Microsoft Fabric.



Accelerate the transformation of your data into business value with Industry solutions in Microsoft Fabric



Unify your data through connectors built for industry needs and regulations.



Harmonize and enrich your industry-specific data.



Activate industry scenarios with purpose-built solutions.



Accelerate the transformation of your data into business value with Industry solutions in Microsoft Fabric



Unify your data through connectors built for industry needs and regulations.

Bring disparate data together into a single source of truth with easily-configurable connectors that comply with key industry regulations, standards, and requirements.



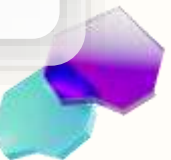
Harmonize and enrich your industry-specific data.

Enrich data with industry-specific context and meaning, making it more valuable to data-intensive AI solutions.



Activate industry scenarios with purpose-built solutions.

Deliver solutions that matter to your industry by leveraging turnkey, purpose-built AI and analytics templates and models.



Introducing Industry solutions in Microsoft Fabric

Industry tailored capabilities immediately accessible in Microsoft Fabric

Featuring connectors, data models, and solutions purpose-built for specific industries to accelerate the transformation of data into business value.

Sustainability

Use ESG optimized data lakes, prebuilt notebooks, and dashboards to ingest, process, aggregate, and display data for various ESG scenarios.

Healthcare

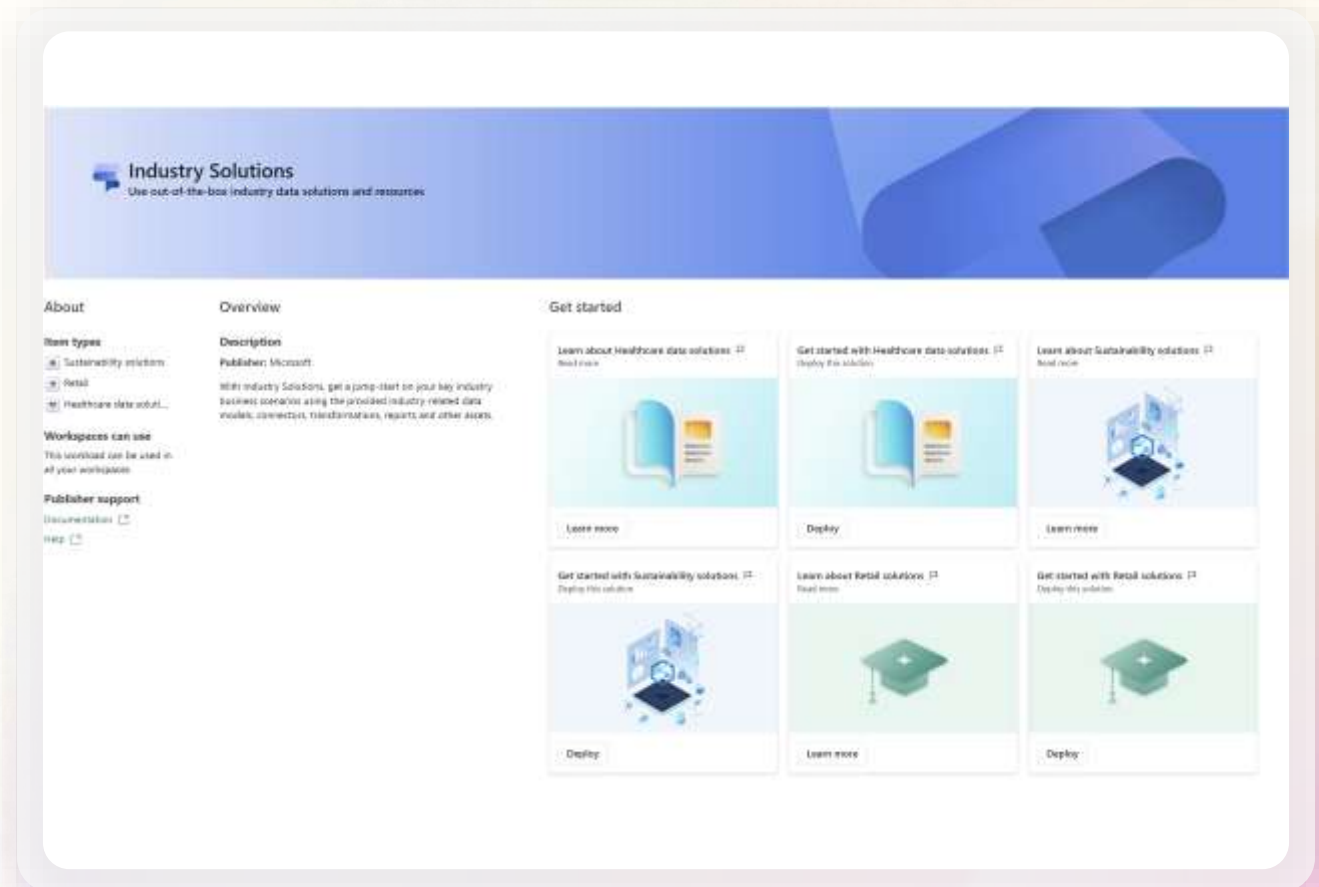
Unify data with healthcare connectors (FHIR, HIPAA and DICOM compliant) and BI for unstructured clinical notes, and data prep (OMOP compliant).

Retail

Take advantage of retail-specific data, connectors, app templates, and BI, such as the Frequently-Bought-Together model.

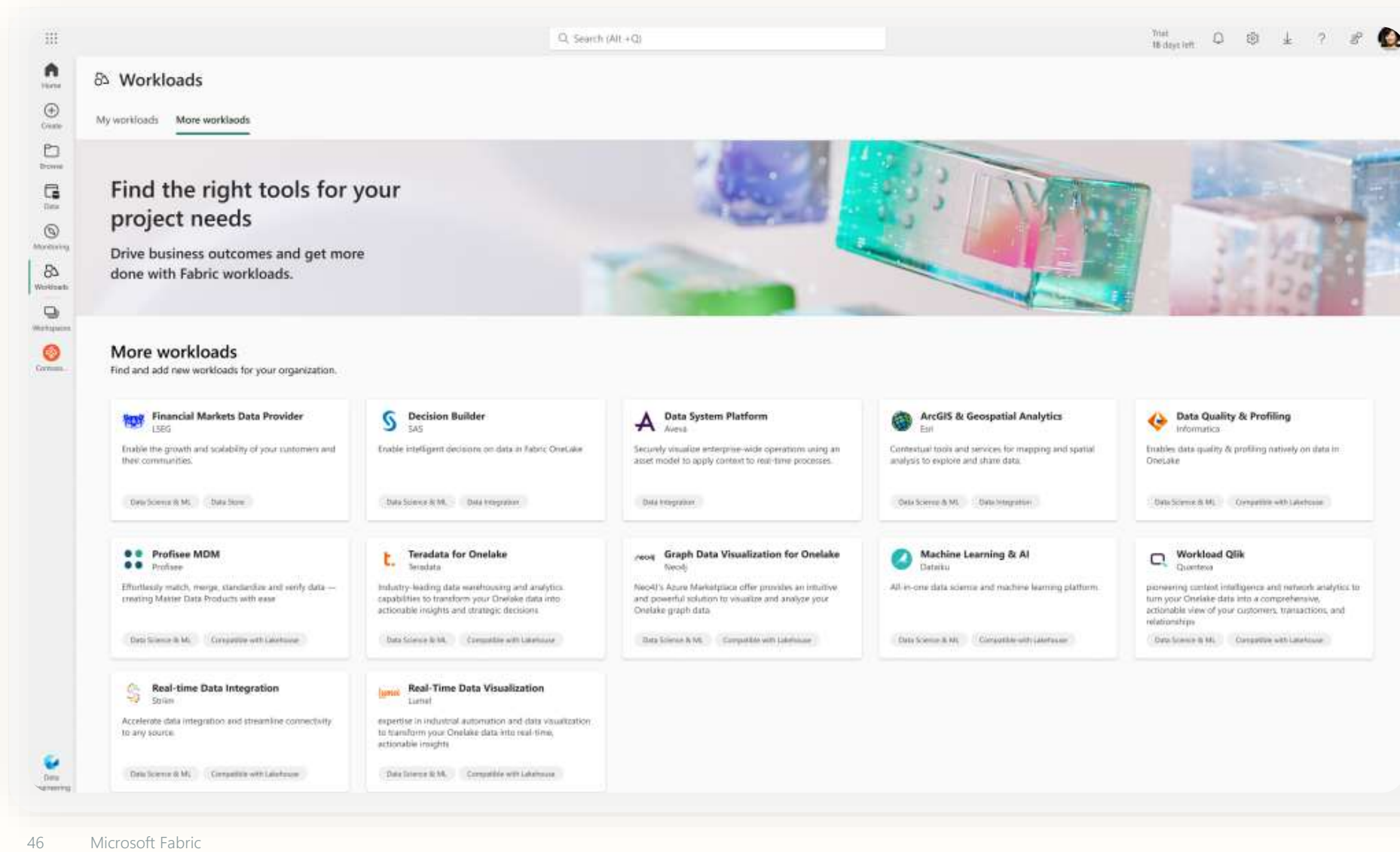
Manufacturing (private preview)

Unify OT and IT data and enrich with manufacturing data model (ISA-95) and built AI apps with copilot templates.



Microsoft internal only – do not share

Extend further with partner-developed workloads on Fabric



The screenshot displays the Microsoft Fabric Workloads interface. At the top, there's a search bar and a navigation menu on the left. The main heading is "Workloads" with sub-tabs for "My workloads" and "More workloads". Below this, a banner reads "Find the right tools for your project needs" and "Drive business outcomes and get more done with Fabric workloads." The "More workloads" section lists several partner-developed workloads in a grid:

- Financial Markets Data Provider** (LSEG): Enable the growth and scalability of your customers and their communities. Tags: Data Science & ML, Data Store.
- Decision Builder** (SAS): Enable intelligent decisions on data in Fabric OneLake. Tags: Data Science & ML, Data Integration.
- Data System Platform** (Aveva): Securely visualize enterprise-wide operations using an asset model to apply context to real-time processes. Tag: Data Integration.
- ArcGIS & Geospatial Analytics** (Esri): Contextual tools and services for mapping and spatial analysis to explore and share data. Tags: Data Science & ML, Data Integration.
- Data Quality & Profiling** (Informatica): Enables data quality & profiling natively on data in OneLake. Tags: Data Science & ML, Compatible with Lakehouse.
- Profisee MDM** (Profisee): Effortlessly match, merge, standardize and verify data — creating Master Data Products with ease. Tags: Data Science & ML, Compatible with Lakehouse.
- Teradata for OneLake** (Teradata): Industry-leading data warehousing and analytics capabilities to transform your OneLake data into actionable insights and strategic decisions. Tags: Data Science & ML, Compatible with Lakehouse.
- Graph Data Visualization for OneLake** (Neo4j): Neo4j's Azure Marketplace offer provides an intuitive and powerful solution to visualize and analyze your OneLake graph data. Tags: Data Science & ML, Compatible with Lakehouse.
- Machine Learning & AI** (Dataiku): All-in-one data science and machine learning platform. Tags: Data Science & ML, Compatible with Lakehouse.
- Workload Qlik** (Qlik): pioneering context intelligence and network analytics to turn your OneLake data into a comprehensive, actionable view of your customers, transactions, and relationships. Tags: Data Science & ML, Compatible with Lakehouse.
- Real-time Data Integration** (Strim): Accelerate data integration and streamline connectivity to any source. Tags: Data Science & ML, Compatible with Lakehouse.
- Real-Time Data Visualization** (Lumina): expertise in industrial automation and data visualization to transform your OneLake data into real-time, actionable insights. Tags: Data Science & ML, Compatible with Lakehouse.

On the right side of the image, a vertical list of partner logos is shown: AVEVA, sas, Profisee, Informatica, LSEG, esri, and teradata. At the bottom right, there's a small graphic of colorful geometric shapes.

Workloads

Search (Alt + Q)

Trial
18 days left

Home

Workloads

Workloads

My Workloads


More Workloads

Find the right modules for your project needs

Drive business outcomes and get more done with partner modules.

More Workloads

Find and add new Workloads for your organization.




Financial Markets Data Provider
ESEG

Enable the growth and scalability of your customers and their communities.

Data Science & ML


Data Store



Data System Platform
Aeva

Securely visualize enterprise-wide operations using an asset model to apply context to real-time processes.

Data Integration




ArcGIS & Geospatial Analytics
Esri

Contextual tools and services for mapping and spatial analysis to explore and share data.

Data Science & ML

Data Integration




Neo4j Graph Analytics
Neo4j

Discover hidden data patterns using graph powered insights on your data in OneLake.

Data Science & ML

Business Intelligence




SAS Decisioning
SAS

Manage, model and deploy - all in one solution.

Data Science & ML

Compatible with Lakehouse




Data Management Cloud
Informatica

Revolutionizes data handling with streamlined organization, storage, and retrieval capabilities.

Data Science & ML

Compatible with Lakehouse




Cognitive services (Sample)
Microsoft

Advanced services for analyzing complex data and natural language processing.

Data Science & ML

Compatible with Lakehouse



Data Engineering



Thank you