



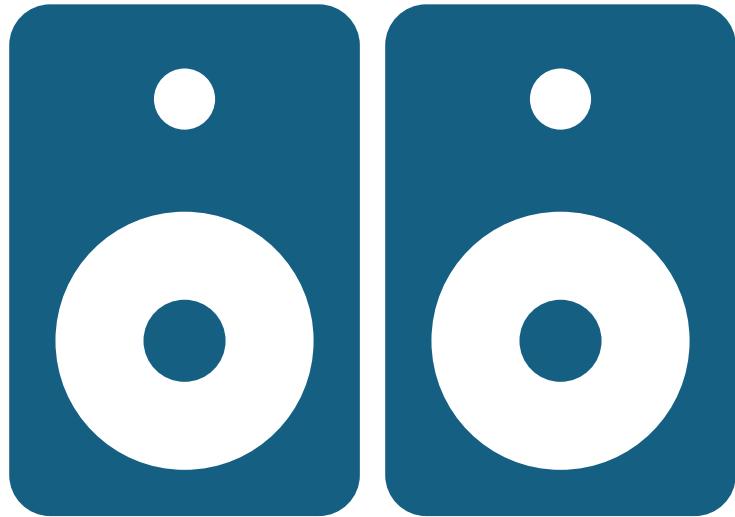
Power Bi

USER GROUP MEETUP

HOLIDAYS & INSIGHTS!

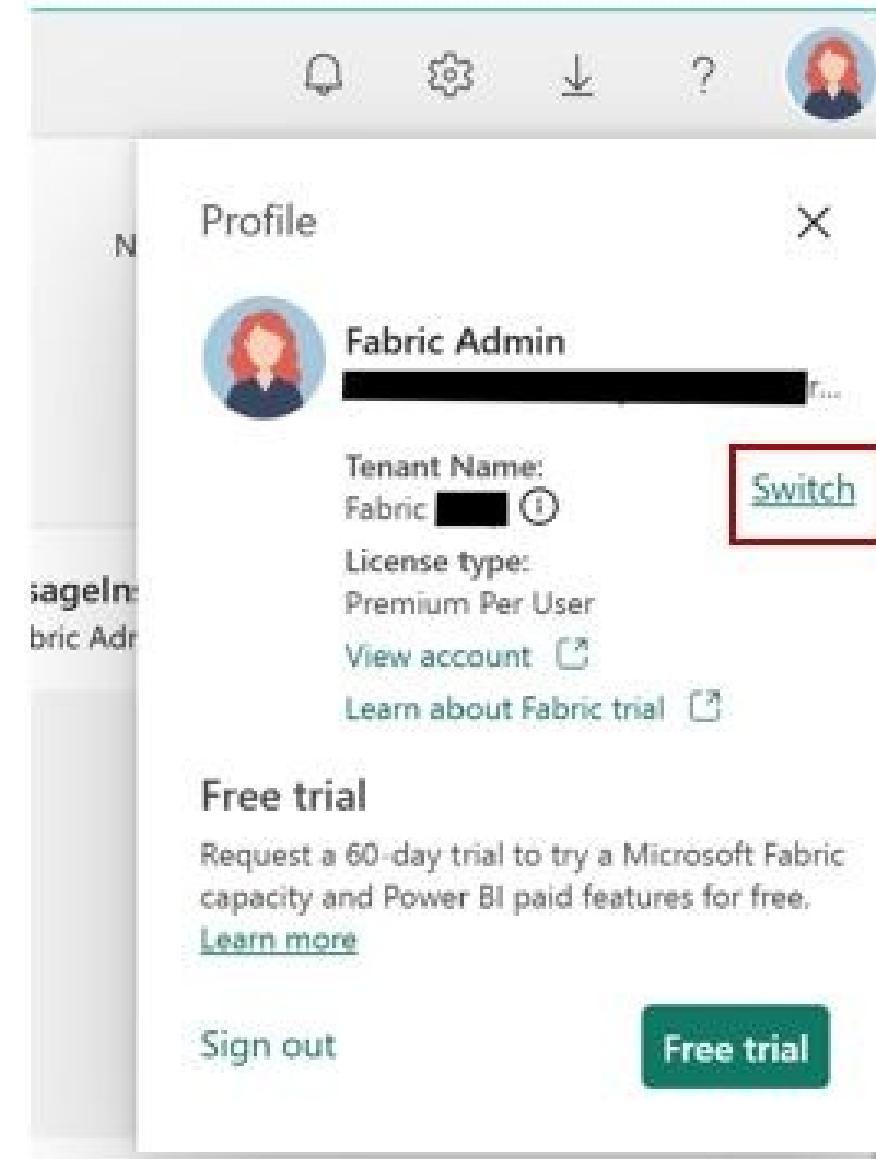
Happy Holidays and Insights

Power Bi



Everyone is talking
about the many great
features announced
recently...

The ability to easily switch tenants in the portal





Microsoft Fabric & Power BI

#MSIgnite News



Andrea Benedetti

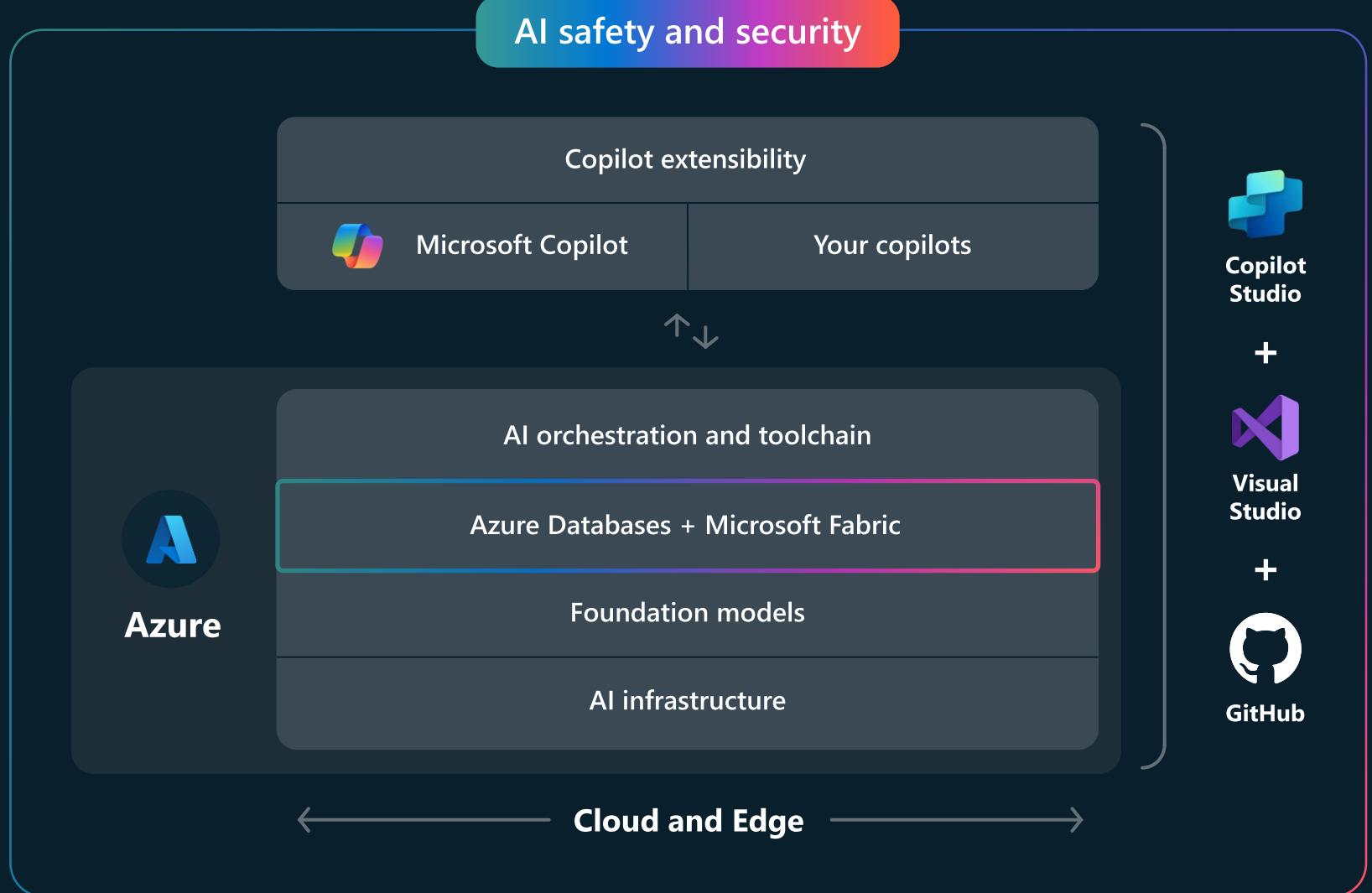
AI, data and all the things we can do with it @
Microsoft | TedX Speaker | Keynote Speaker



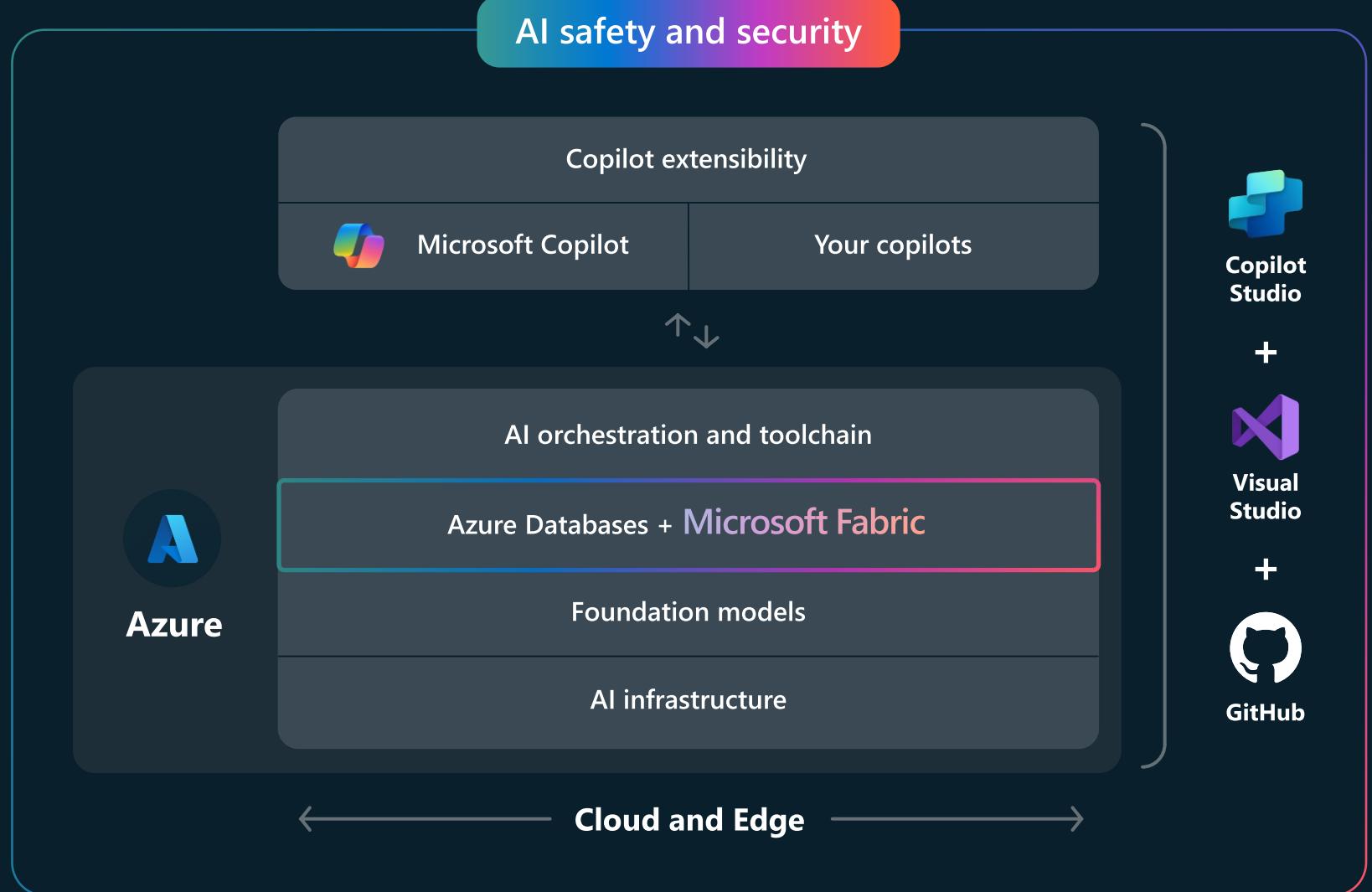
AI is transforming the world

Data is the fuel that powers AI

Copilot Stack



Copilot Stack





Microsoft Fabric

16,000+

Fabric customers

70%

Fortune 500

375K+

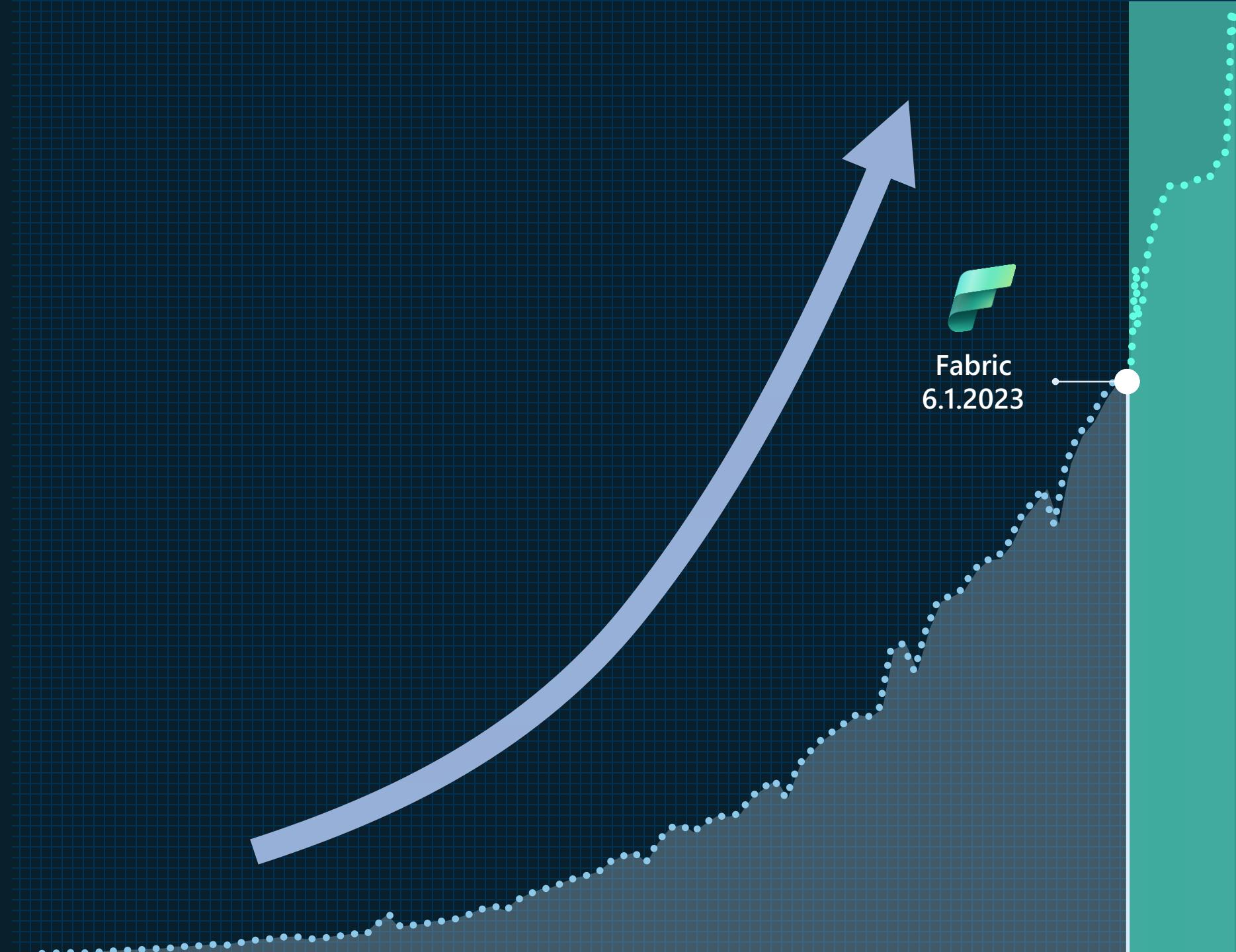
Power BI
customers

95%

Fortune 500 companies
use Power BI

6.5M+

Power BI
developers





Weekly Fabric releases

Rapid pace of innovation

This screenshot shows a blog post titled "Microsoft Fabric August 2023 update". The post discusses various new features, including a new layout for Synapse Data Warehouse, in-line Python support for KQL in Power BI, and improvements for Data Factory Dataflows. It includes a video thumbnail for a monthly update video.

August 2023 update

We have lots of features this month including the new layout in Synapse Data Warehouse, in-line Python support for KQL in Power BI, pickup activity for Data Factory Dataflows, and much more. Continue reading for more details on our new features!

MONTHLY UPDATE - August 2023

Aug 2023

This screenshot shows a blog post titled "Microsoft Fabric September 2023 Update". The post highlights updates to the monitoring hub, Fabric Metrics app, VS code integration for Data Engineering, and Real-time data sharing. It includes a video thumbnail for a monthly update video.

September 2023 Update

Welcome to the September 2023 update.

We have lots of features this month including updates to the monitoring hub, Fabric Metrics app, VS code integration for Data Engineering, Real-time data sharing and many more. Continue reading for more details on our new features!

Contents

- [Core](#)
 - [Monitoring hub – column options](#)
 - [OneLake](#)
 - [OneLake file explorer \(v1.0.10\) – Menu Option to View Workspaces and Items Online](#)- [Power BI](#)
 - [General](#)
 - [Upgrade Power BI Desktop .NET Framework to 4.7.2 or newer](#)- [Reporting](#)
 - [Mobile layout interactive canvas](#)
 - [Smart Narrative improvements](#)
 - [Modeling](#)

Sep 2023

This screenshot shows a blog post titled "Microsoft Fabric October 2023 update". The post covers updates to item type icons, Keyword-Based Filtering of Tenant Settings, On-object Interaction updates, and Eventstream Kafka Endpoints. It includes a video thumbnail for a monthly update video.

October 2023 update

We have a lot of features this month including updates to the Item type icons, Keyword-Based Filtering of Tenant Settings, On-object Interaction updates, Eventstream Kafka Endpoints and many more. Continue reading for more details on our new and updated features!

Core

- [Item type icons](#)

Admin

- [Keyword-Based Filtering of Tenant Settings](#)

Power BI

- [Reporting](#)
 - [Power BI Desktop OneDrive and SharePoint integration](#)
 - [On-object Interaction Updates \(preview\)](#)
 - [New! Date Hierarchy on data flavor](#)
 - [New! Placeholder text](#)

Oct 2023



Microsoft Fabric

The unified data platform for AI transformation

AI Powered Data Platform

Complete data platform

Unified, SaaS-ified

Secured and governed

Open and AI-Ready Data Lake

OneLake

Multi-cloud

Open at every tier

AI Enabled Insights

For every business user

Built into Microsoft 365

M365 Copilot Integrated



Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real-Time
Intelligence



Power BI



AI



OneLake

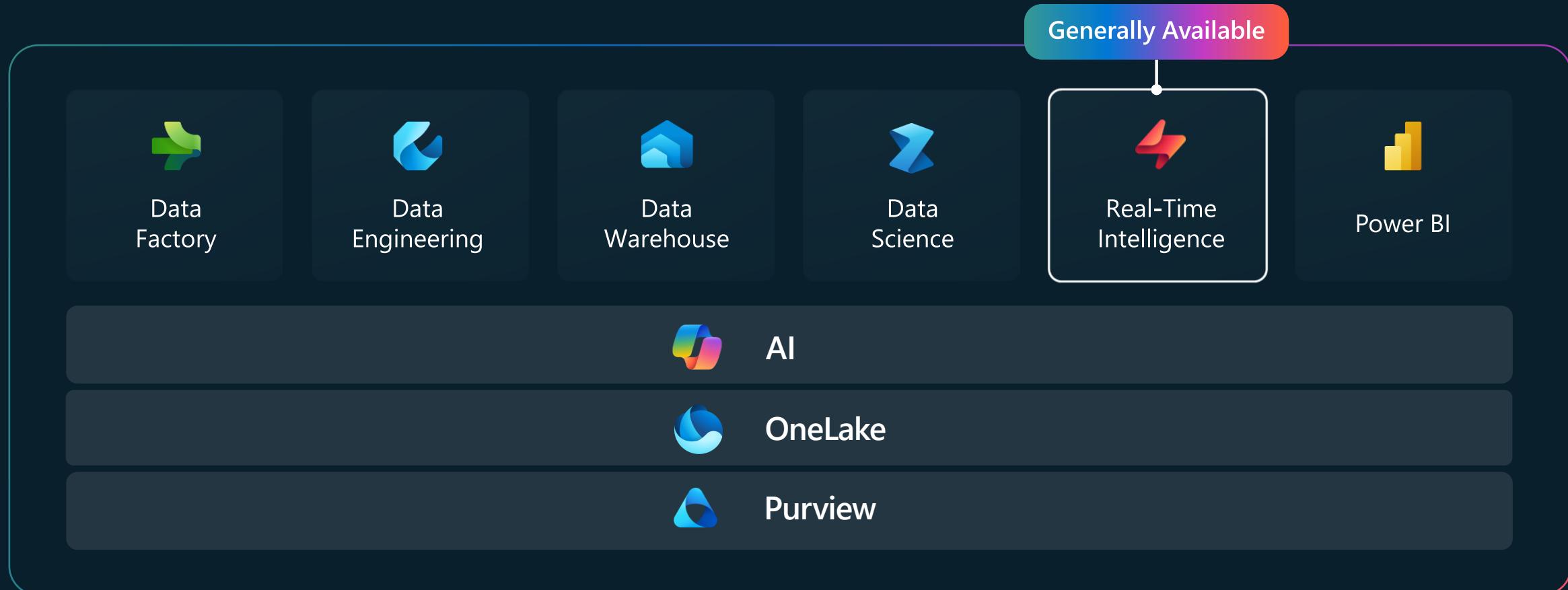


Purview



Microsoft Fabric

The unified data platform for AI transformation





Real-Time Intelligence in Microsoft Fabric



Event
Ingestion



Real-Time
Analytics



Real-Time
AI



Real-Time
Dashboards



Real-Time
Rules



Event-Driven
Actions



Real-Time hub





Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real-Time
Intelligence



Power BI



AI



OneLake



Purview



Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Analytics



Real-Time
Intelligence



Power BI



AI



OneLake

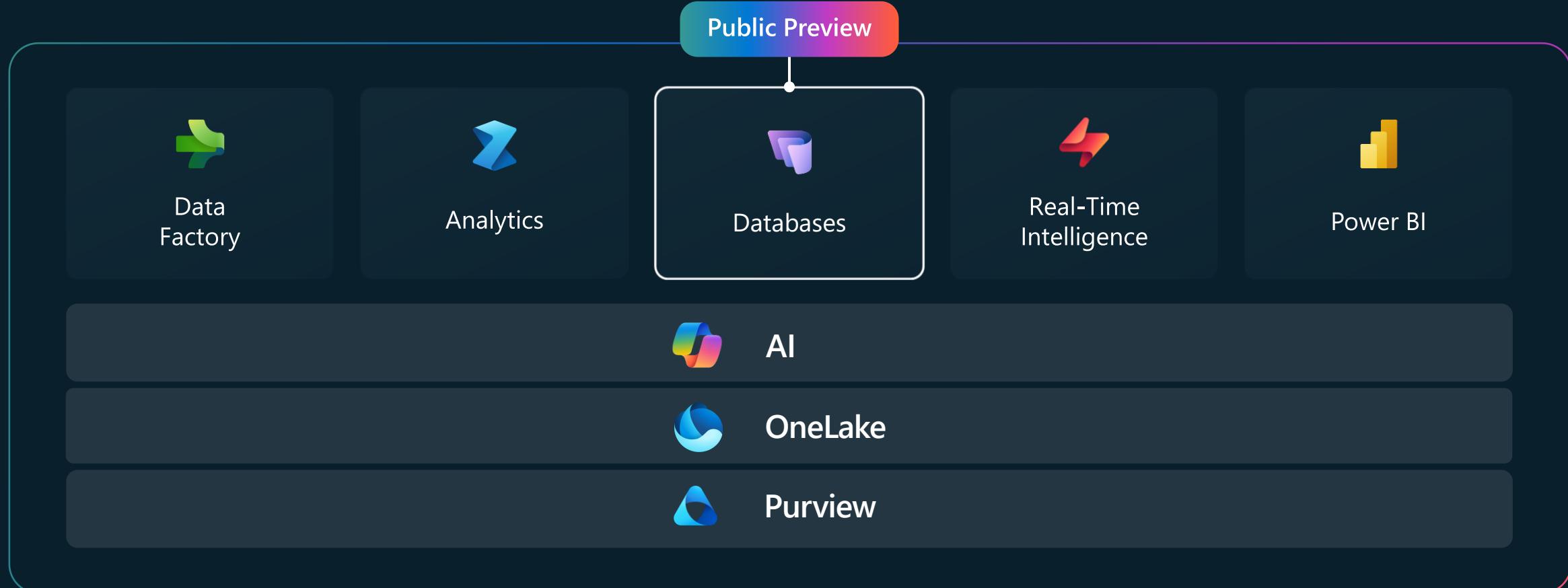


Purview

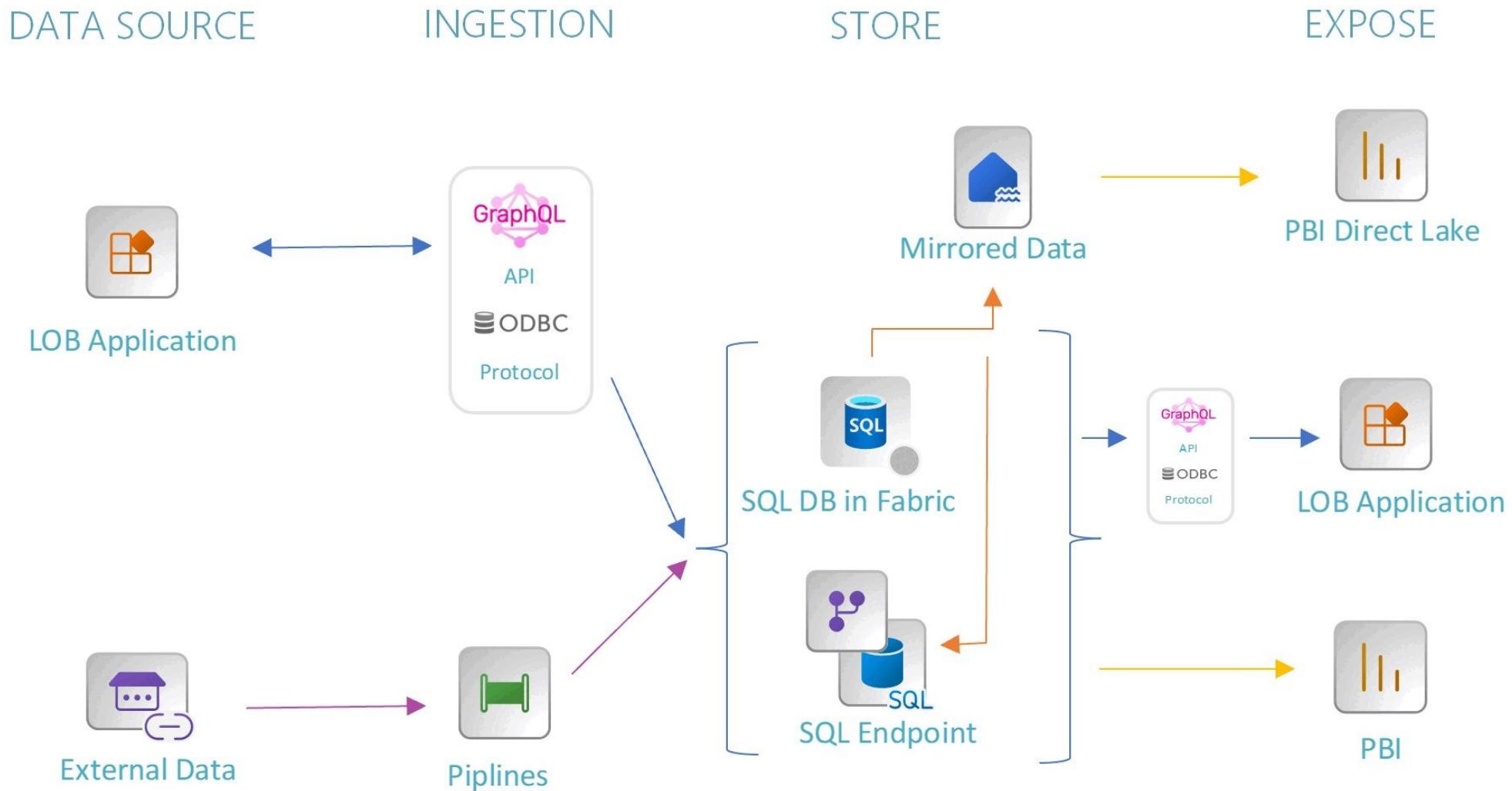


Microsoft Fabric

The unified data platform for AI transformation



Fabric Databases





Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Analytics



Databases



Real-Time
Intelligence



Power BI



Industry
Solutions



Partner
Workloads



AI



OneLake



Purview

Sustainability data solutions in Microsoft Fabric

General Availability

The screenshot shows the Microsoft Fabric interface with a sidebar on the left containing icons for Home, Workspaces, Create, OneLake, Monitor, Real-Time, Workloads (which is selected), and My workspace. The main area is titled 'Workloads' and contains a heading 'Here you can explore and learn about the workloads available to you'. It features seven cards: Data Engineering (Microsoft), Data Factory (Microsoft), Data Science (Microsoft), Data Warehouse (Microsoft), Databases (Microsoft), Industry Solutions (Microsoft), and Power BI (Microsoft). Each card has a brief description and a small icon. A trial banner at the top right indicates 'Trial: 15 days left'.

Create a **unified view** of all of your ESG data

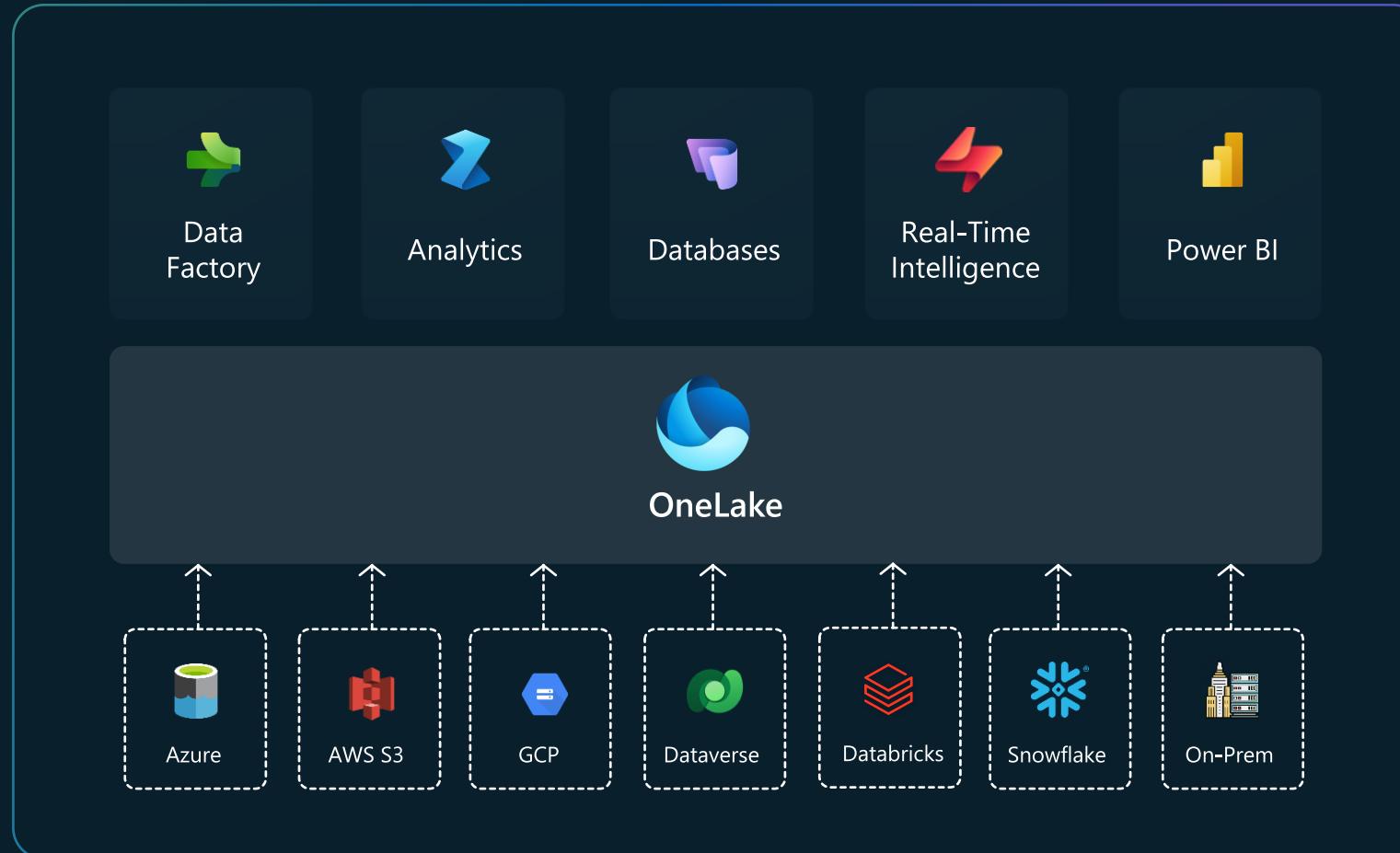
Automatically provision the full solution in **Fabric** in moments

Simplify your **ESG analysis and reporting** through Power BI

Accelerate your **sustainability progress**

Unifying data in OneLake

Cross-cloud shortcuts & mirroring



First multi-cloud
SaaS data lake

Shortcuts for existing
data **cross clouds and
on-premises**

Mirroring to add
whole databases into the
OneLake data estate

Database Mirroring in Fabric

Automatically reflect data into OneLake

Generally Available



Mirroring for
Snowflake



Mirroring for
Azure SQL DB

Public Preview



Mirroring for
Cosmos DB



Mirroring for
Azure SQL MI



Mirrored Azure
Databricks Catalog

Database Mirroring in Fabric

Automatically reflect data into OneLake



Mirroring for
Snowflake



Mirroring for
Azure SQL DB



Mirroring for
Cosmos DB



Mirroring for
Azure SQL MI



Mirrored Azure
Databricks Catalog

Coming Soon



Mirroring for
SQL Server



Mirroring for SQL
Server 2025

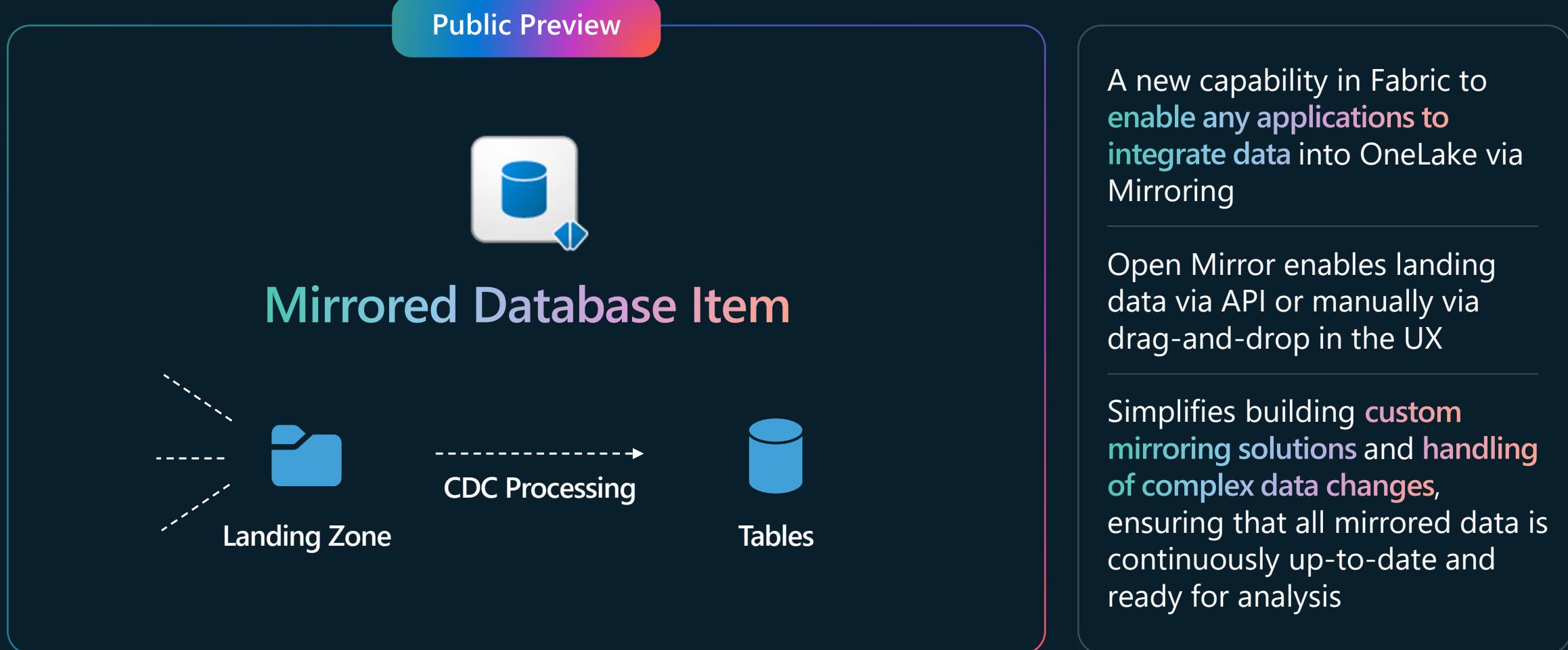


Mirroring for
Azure PostgreSQL



Mirroring for
Oracle

Open Mirroring in Fabric



Open Mirroring in Fabric

The screenshot shows a Microsoft Learn article page. At the top, there's a navigation bar with 'Learn' and 'Microsoft Fabric' followed by a separator line and a database icon. To the right are three small icons: a plus sign, a pencil, and a three-dot menu. Below the navigation is the main title 'Open mirroring in Microsoft Fabric (Preview)' in large bold letters. Underneath the title is a subtitle 'Article • 11/19/2024 • 1 contributor' and a 'Feedback' button with a speech bubble icon. A sidebar on the left is titled 'In this article' and lists several sections: 'Why use open mirroring in Fabric?', 'What analytics experiences are built in?', 'Open mirroring cost considerations', 'Next step', and 'Related content'. The main content area starts with a paragraph about Mirroring in Fabric providing an easy experience to avoid complex ETL and integrate existing data into OneLake. It mentions continuous replication and various business intelligence scenarios. Below this is another paragraph about Open mirroring enabling direct write access to mirrored databases and its extensibility.

Learn / Microsoft Fabric / Database /

Open mirroring in Microsoft Fabric (Preview)

Article • 11/19/2024 • 1 contributor

Feedback

In this article

- Why use open mirroring in Fabric?
- What analytics experiences are built in?
- Open mirroring cost considerations
- Next step
- Related content

Mirroring in Fabric provides an easy experience to avoid complex ETL (Extract Transform Load) and integrate your existing data into OneLake with the rest of your data in Microsoft Fabric. You can continuously replicate your existing data directly into Fabric's OneLake. Inside Fabric, you can unlock powerful business intelligence, artificial intelligence, Data Engineering, Data Science, and data sharing scenarios.

Open mirroring enables any application to write change data directly into a mirrored database in Fabric. Open mirroring is designed to be extensible, customizable, and open. It's a powerful feature that extends mirroring in Fabric.

[Open Mirroring \(Preview\) - Microsoft Fabric | Microsoft Learn](#)

Open Mirroring in Fabric – Excel

The screenshot illustrates the process of open mirroring data from a SQL analytics endpoint in Microsoft Fabric into an Excel spreadsheet.

Left Panel (Fabric Analytics Endpoint):

- The title bar shows "exceldemo".
- The ribbon tabs include Home, Reporting, and a SQL icon.
- A message states: "This SQL analytics endpoint has a default Power BI semantic model. To automatically add objects, go to SQL analytics endpoint settings. To manually add objects, use Manage default semantic model. Learn more".
- The Explorer pane shows the database structure:
 - Warehouses: exceldemo
 - Schemas: exceldemo, dbo
 - Tables: demo_friends
 - Views, Functions, Stored Procedures, INFORMATION_SCHEMA, queryinsights, sys, Security, Queries, My queries, and various SQL query files (1-15).

Middle Panel (SQL Query Editor):

- The title bar says "SQL query 9".
- The query text is:

```
1 SELECT *
2 FROM [exceldemo].[dbo].[demo_friends]
```
- The results pane displays the data from the "demo_friends" table:

	id	Names	Type	Age
1	1	Percy	dog	10
2	2	Nimrod	cat	3

Right Panel (Excel Worksheet):

- The ribbon tabs are Home, Insert, Draw, Page Layout, Formulas, Data, Review, and View.
- The Styles ribbon group is visible.
- The worksheet contains the following data:

Type	Age	Legs	Eyes
dog	10	4	2
cat	3	4	2

- The status bar at the bottom of the Excel window shows "friends" and "Accessibility: Good to go".

Open Mirroring in Fabric – SharePoint List

The screenshot illustrates the integration of a SharePoint list with a Power BI semantic model. On the left, a SharePoint 'friends' list is displayed with three items: Human (Chris Webb, 21, 2 legs), Dog (Percy smith, 10, 4 legs), and Cat (Nimrod, 4, 4 legs). The Power BI interface on the right shows the same data in a SQL query and a preview table.

SharePoint List:

Title	Name	Age	Legs	eyes
Human	Chris Webb	21	2	
Dog	Percy smith	10	4	
Cat	Nimrod	4	4	

Power BI Semantic Model:

```
1 SELECT *
2 FROM [sharepoint].[sharepoint].[friends]
```

id	@odata.etag	Title	Name	Age	Legs	eyes	ContentType	Modified
1	*a601b1fe-35d2-	Dog	Percy smith	10	4	2	Item	05/12/2024 19
2	*a9623104-447f-	Cat	Nimrod	4	4	2	Item	05/12/2024 18
3	*be5ce658-bcc1-	Human	Chris Webb	21	2	2	Item	05/12/2024 19
4	*fcd31fdb-ec5f-4...	Real Boy	Alex Power	14			Item	05/12/2024 19

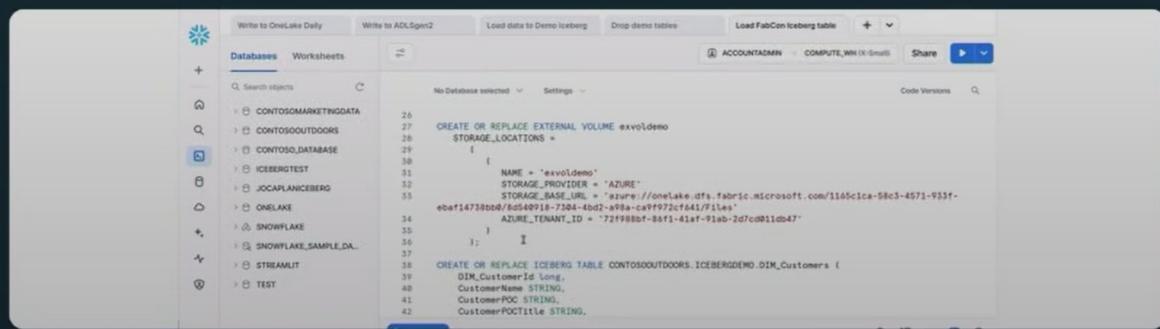
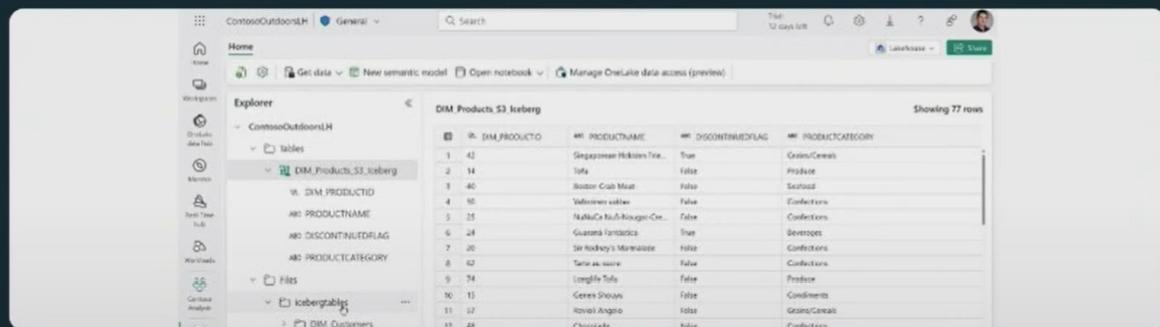
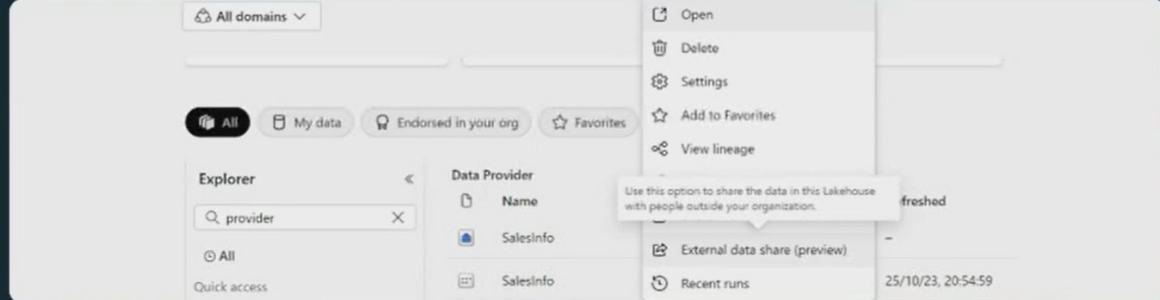
Free Mirroring Storage for Replicas



OneLake

New capabilities coming to OneLake

Share Fabric data and artifacts externally, making collaboration easier and more fruitful



External data sharing

Share data and assets with external organizations from OneLake storage without copying the data

Now Generally Available

Shortcuts to Iceberg tables

Simply point to any Iceberg dataset (e.g., Snowflake) and virtualize the table in OneLake

Now in Public Preview

Write directly to OneLake from Snowflake

Write Iceberg tables directly to OneLake from your Snowflake experience.

Now in Public Preview

OneLake catalog

Announcing

The screenshot shows the OneLake catalog interface. On the left, there's a sidebar with navigation links like Home, Workspaces, OneLake, Monitor, Real-Time, Workloads, and a workspace named 'FestConfEuro peDemoc...'. The main area is titled 'OneLake catalog' and has tabs for 'Explore' and 'Govern'. Under 'Explore', there's a 'All items' section with filters for 'Type: Data items' and 'Tags'. A search bar at the top right says 'Search'. Below the search bar, there's a list of data items under 'Name' with icons: Inventory DB, Contoso test DB, Sales FY21, Marketing 24, Customer feedback (which is selected), Test datamart, IOT DB, Fleet tracking DB, Contoso Finance DB, Test semantic model, Market indices, and Weather. To the right of this list is a detailed view of the 'Customer feedback' item. It shows it's a 'Data Warehouse' type. The description says 'This warehouse shows IT spend YoY; this is the default text for the item's description if defined.' There's a 'Open' button. Below this are tabs for 'Overview', 'Lineage', 'Permissions', and 'Query activity'. The 'Overview' tab shows details: Location 'Contoso > Folder name', Data updated '1/26/25, 3:02 PM', Contact 'Dani Wolf', and Sensitivity label 'Confidential'. Under 'Objects (17)', there's a table with columns 'Name', 'Date modified', and 'Type'. The objects listed are queryinsights, dbo, and information_schema.

Name	Date modified	Type
queryinsights	10/18/2023 at 11:56 AM	Table
dbo	10/03/2023 at 09:23 AM	Table
information_schema	10/03/2023 at 09:23 AM	Table

Unified view of org data estate to streamline cross-team **collaboration** on data, processes, insights, and AI;

Easily **explore** your data and **manage** in place

Effectively **govern** your data at scale with **insights**, recommended **actions**, and **tooling**

Integrated directly into **M365**, Microsoft Copilot Studio, and Azure Ibiza experiences



OneLake momentum

16 Billion

Interactions per day

3 Million

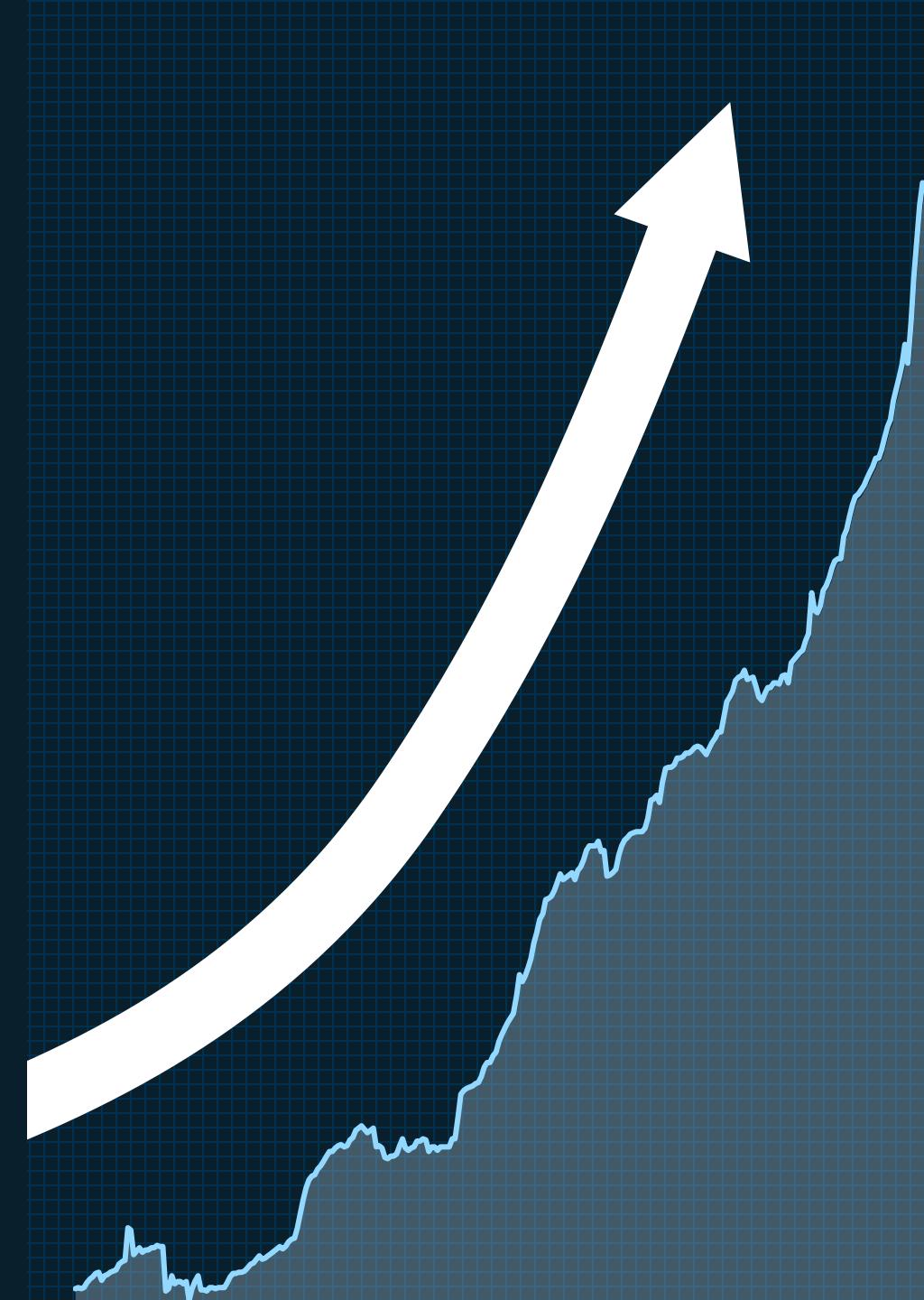
Active shortcuts

>1 Million

Azure storage accounts
under management

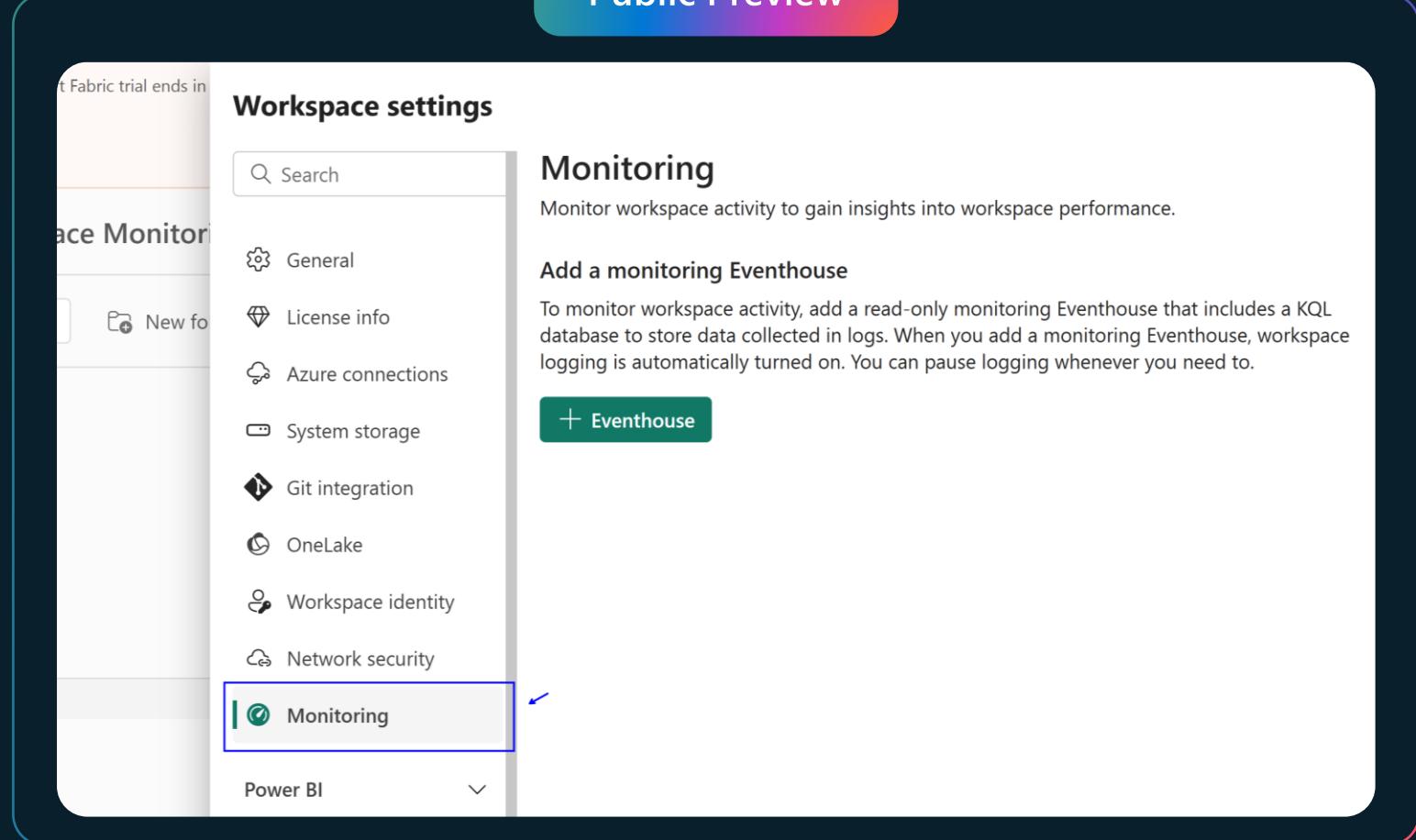
15 Weeks

Doubling rate of
storage volume



Workspace monitoring

Public Preview



The screenshot shows the 'Workspace settings' blade in the Azure portal. On the left, there's a sidebar with various monitoring-related sections like General, License info, Azure connections, System storage, Git integration, OneLake, Workspace identity, Network security, and Monitoring. The 'Monitoring' section is highlighted with a blue border. The main content area is titled 'Monitoring' and contains the following text: 'Monitor workspace activity to gain insights into workspace performance.' Below this is a section titled 'Add a monitoring Eventhouse' with the sub-instruction: 'To monitor workspace activity, add a read-only monitoring Eventhouse that includes a KQL database to store data collected in logs. When you add a monitoring Eventhouse, workspace logging is automatically turned on. You can pause logging whenever you need to.' At the bottom of this section is a green button labeled '+ Eventhouse'.

Conduct root-cause analysis and troubleshoot operations, performance and data downtime

View granular diagnostic logs about workspaces in a read-only Eventhouse

Query the database ad-hoc, analyze for patterns and anomalies, or save drafted queries as query sets

Demo



AI Skills in Fabric

Home

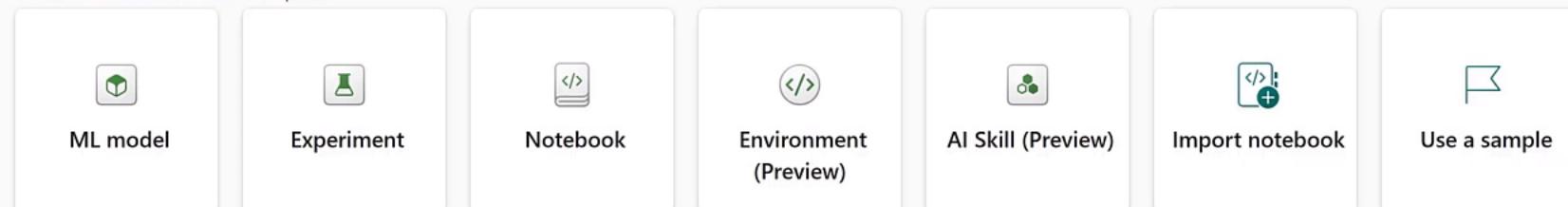


New

Current workspace: Contoso Outdoors Sales

Items will be saved to this workspace.

Show less ^



Recommended



My workspace
You frequently open this

[Open](#)

Notebook 6
You frequently open this

[Open](#)

Contoso Sales Excellence
You frequently open this

[Open](#)

Copilot Demo
You frequently open this

[Open](#)

Quick access

Recent

Favorites

Filter by keyword

Filter ▾

File	Name	Type	Opened	Owner	Endorsement	Sensitivity	Location
	Contoso Outdoors Sales	Workspace	now	—	—	—	Workspaces
	Contoso Sales Excellence	Workspace	now	—	—	—	Workspaces



[+ New item](#)[New folder](#)[Import](#)[Source control](#)[Filter by keyword](#)[Filter](#)[More](#)[+ Add \(preview\)](#)

Real-Time Data Fe...

Get data

1 item

[+ New item](#)[\(\)](#)

Anomaly Detection

Track data

No items

[+ New item](#)[\(\)](#)

Develop

Develop data

2 items

[+ New item](#)[\(\)](#)

Batch Get data

Get data

3 items

[+ New item](#)[\(\)](#)

Data Stores

Store data

8 items

[+ New item](#)[\(\)](#)

Visualize

Visualize data

3 items

[+ New item](#)[\(\)](#)

Track

Track data

2 items

[+ New item](#)[\(\)](#)

Prepare

Prepare data

1 item

[+ New item](#)[\(\)](#)

Analyze and train

Analyze and train data

2 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

	Name	Git status	Type	Task	Owner	Refreshed	Next refresh	Endorsemen	Sensitivity
	(Alerting) Customer Escalation	—	Activator	Track	Patrick Bau...	—	—	—	Confidenti...
	Activity Dashboard	—	Real-Time ...	Track	Patrick Bau...	—	—	—	Confidenti...
	Backlogged Customer Orders	—	KQL Query...	Visualize	Patrick Bau...	—	—	—	Confidenti...
	BackloggedOrders	—	Eventhouse	Data St...	Patrick Bau...	—	—	—	Confidenti...



PBI Copilot

Copilot Integrated in every Microsoft Fabric Experience



Data Factory



Data Warehouse



Data Science



Real Time



Power BI

The screenshot shows the Microsoft Fabric Data Science interface. On the left, there's an Explorer sidebar with a tree view of datasets like 'LH_NBA', 'ames', 'player_data', 'Players', 'Player_Team', 'shot', and 'Team'. In the center, there's a main workspace with two questions: "Which is the best 3 point shooter player?" and "Who is the best player in three point shot?". Below the questions, there's a code editor window displaying an SQL query:

```
SELECT TOP 1 p.FirstName, p.LastName
FROM dbo.Players p
JOIN dbo.Player_Team pt ON p.player_Id = pt.player_Id
WHERE pt.value > 3 AND s.made = 1
GROUP BY p.FirstName, p.LastName
ORDER BY count(*) DESC;
```

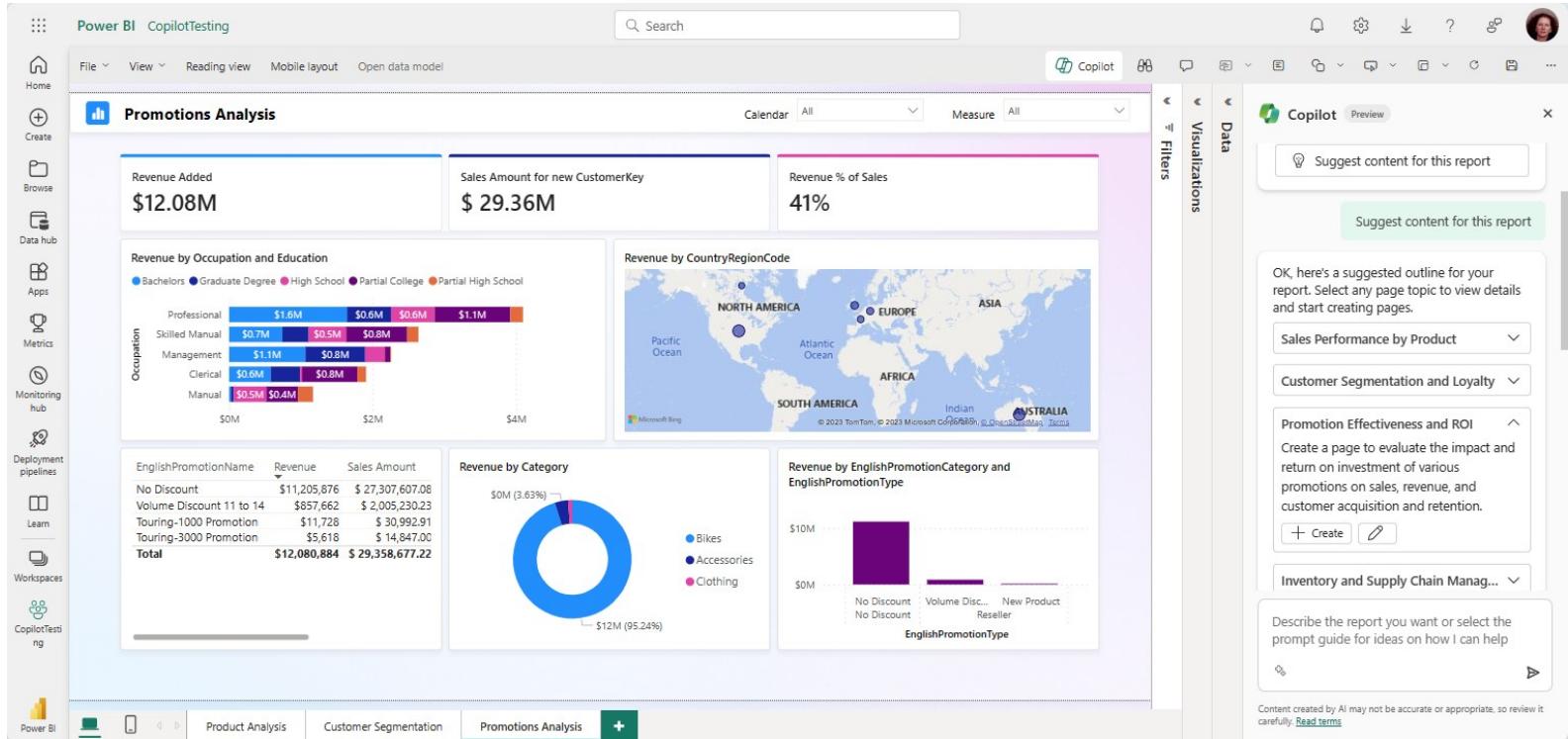
On the right, there's a panel titled "Model behavior" with settings for "SQL query variations" (set to 3) and "Show executed SQL query" (set to Yes). A note at the bottom says "To understand if a three-point shot is valid you must take the field value = 1 if it is made = 1 and if the field made = false it means that the shot did not enter."



AI Skills

PBI Create a page

"Create a page to evaluate the impact and return on investment of various promotions on sales, revenue, and customer acquisition and retention."



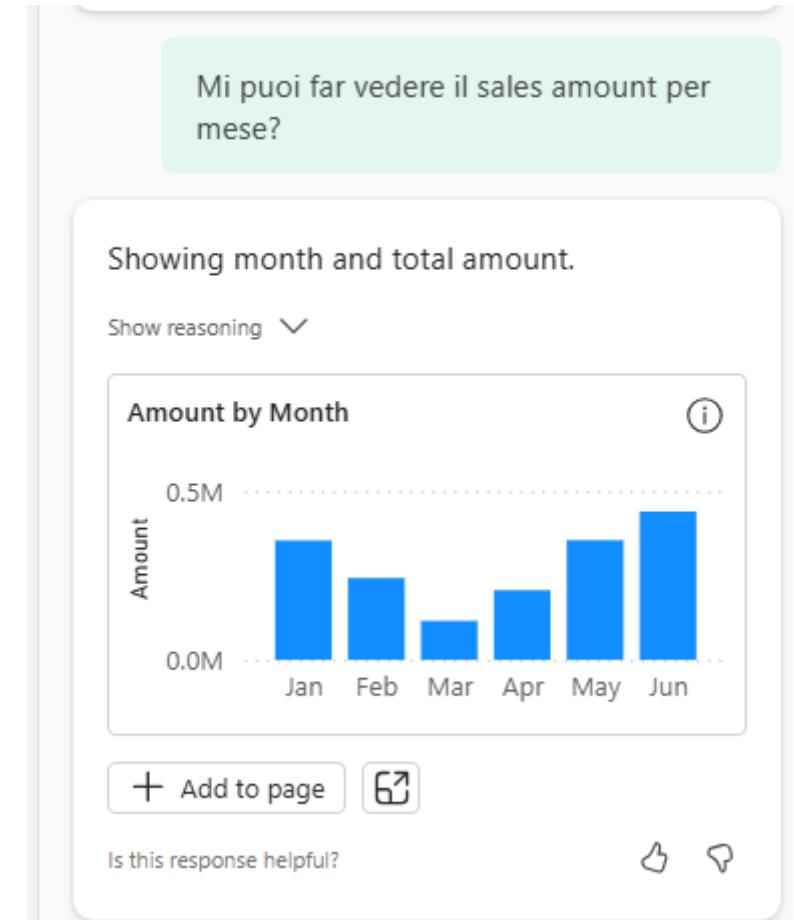
PBI Narrative

"Make a table of contents for this report that contains a brief description of what each page is about."

The screenshot shows a Microsoft Power BI report titled "Analysis of Customer Types". The report includes four key metrics: Money Spent YTD (\$61.59M), Return Rate (11.7%), Average of Length of stay (2.76), and Count of Customer Type (2). Below these, there are three main sections: "Analysis of Customer Types", "Monitoring Transactions, Cases, and Resources", and "Comparing Revenue, Customer Satisfaction, and Return Rate". A Copilot AI feature is active, suggesting the creation of a table of contents. The interface features a left sidebar with navigation links like Home, Create, Browse, OneLake, Apps, Metrics, Monitoring hub, Deployment pipelines, Learn, Workspaces, AI2, and Demo for Hotel Visit... The bottom navigation bar shows tabs for Analysis of Customer Types, Monitoring Transactions, Cases, and Resources, Comparing Revenue, Customer Satisfaction, ..., and a plus sign for new content. The overall theme is highly confidential, as indicated by the watermark.

PBI Copilot Experience

- “Can you show me sales amount by region?”
- “What were the top 5 selling products in North America last month?”
- “Tell me the average price of gasoline per gallon over the last 30 days.”
- “Which customers bought cheese and wine?”





Microsoft Fabric

Copilot Pane in PBI Desktop

2 - Manufacturing Power BI * Last saved: 1/27/2022 at 5:20 PM

File Home Insert Modeling View Optimize Help

Cut Copy Paste Format painter Get data Excel workbook Data OneLake Server data Refresh Data Transform data New visual Text box More visuals Insert Quick measure New measure Sensitivity Share Publish Copilot

Clipboard Data Sources Queries Calculations Sensitivity Share Copilot

Contoso MANUFACTURING

Overall Equipment Effectiveness
69.8% ! PY: 69.4% (+0.6109%)

Total Produced
4,244,699 ! PY: 4,118,712 (+3.0589%)

Finished Goods
3,930,063 ! PY: 3,801,500 (+3.3819%)

Scrap
317,788 ! PY: 318,846 (-0.3318%)

Year
2021

Overall Equipment Effectiveness
86.9 % Availability

Operating Time
Ideal Operating Time
302 LY: 283 (+6.7138%)

Net Operating Time
246 LY: 36 (+583.3333%)

Availability % by Month

Production
Finished Goods VS First Pass Yield

First Pass Yield

Jan Feb Mar Apr May

Reject Count by Product

PROD LINE 1 PROD LINE 2

ShiftA ShiftB ShiftC

0K 50K 0K 50K

Overview OEE Production Operating Time Insights Details Tooltip 1 Tooltip 2 +

DAX Query View

The screenshot shows the DAX Query View application interface. At the top is a ribbon menu with File, Home, Help, and External tools tabs. The Home tab is selected. Below the ribbon are various icons for clipboard operations (Paste, Cut, Copy), search, and command palette. A 'Run' button is visible.

The main area contains a code editor window titled 'Run' with the following DAX query:

```
1 // Learn more about DAX queries at https://aka.ms/dax-queries
2 // Here is a sample DAX query from your model, click 'Run'
3 // Try other DAX queries by right clicking a table, column, or measure in the data pane and choosing one from 'Quick queries'
4 EVALUATE
5 TOPN(
6   100,
7   'Fact'
8 )
```

Below the code editor is a 'Results' grid showing the output of the query. The grid has columns: Fact[Segment], Fact[Country], Fact[Product], Fact[Discount Band], Fact[Units Sold], Fact[Manufacturing Price], Fact[Sale Price], and Fact[Gross S]. The data consists of 10 rows, each representing a different combination of Segment, Country, Product, and Discount Band. The last row is partially visible.

At the bottom of the results grid, there are buttons for 'Query 1', 'Query 2', 'Query 3', and a '+' button to add new queries. A status bar at the bottom indicates 'Success (35.2 ms) 16 columns, 100 rows'.

To the right of the results grid is a 'Data' pane. It has a 'Model' tab selected, which displays the semantic model structure. Under 'Tables', it lists 'Fact' (selected) and 'DimCustomer'. Under 'Semantic model', it lists Calculation groups (1), Cultures (1), Measures (14), Perspectives (0), Relationships (1), Roles (0), and Tables (6).

DAX Query View

"Write a measure that returns Order Amount for the employee Gabi and show that measure in a query broken down by product"

```
1 // DAX query generated by Fabric Copilot with "Write a measure"
2 DEFINE
3     Update model: Add new measure
4     MEASURE 'Orders'[Gabi's Order Amount] =
5         CALCULATE(
6             [Order Amount],
7             'Employee'[Employee Name] = "Gabi"
8         )
9
10    EVALUATE
11        SUMMARIZECOLUMNS(
12            'Product'[Product Name],
13            "Gabi's Order Amount", [Gabi's Order Amount]
14        )
```

Results | Result 1 of 1 ▾ ▾

	Product[Product Name]	[Gabi's Order Amount]
1	Apples	2600
2	Lemons	800
3	Limes	810
4	Bananas	930

DAX Query View

“Explain the DAX KeepFilters function”

Explain the DAX KeepFilters function X

[Explain this query](#) [Explain a DAX topic](#) [Retry](#)

The **KEEPFILTERS** function in DAX is used to preserve the existing filters applied to a column, while adding new filters in a **CALCULATE** function. Normally, when you use **CALCULATE**, it replaces any existing filters on the columns you specify. But with **KEEPFILTERS**, you can add new filters while keeping the existing ones.

In the context of your data model let's say you want to calculate the order amount for a specific customer. You could use the following DAX formula:

```
Customer[OrderAmount] = CALCULATE(SUM(Quantity * UnitPrice), Customer[CustomerID] = 123, Customer[OrderDate] > "2023-01-01")
```

If you wanted to keep the existing filters (CustomerID = 123) while adding a new filter (OrderDate > "2023-01-01"), you would use the **KEEPFILTERS** function:

```
Customer[OrderAmount] = CALCULATE(SUM(Quantity * UnitPrice), Customer[CustomerID] = 123, Customer[OrderDate] > "2023-01-01", Customer[OrderDate] = Customer[OrderDate])
```

Content created by AI may contain mistakes, so review it carefully. [Read terms](#)

DAX Query View

"Rewrite the "Gabi's Order Amount" measure so that it uses the DAX KeepFilters function"

```
1- // DAX query generated by Fabric Copilot with "Write a measure that returns Order Amount for the employee"
2 DEFINE
3   MEASURE 'Orders'[Gabi's Order Amount] =
4     CALCULATE(
5       [Order Amount],
6       'Employee'[Employee Name] = "Gabi"
7     )
8
9 EVALUATE
10 SUMMARIZECOLUMNS(
11   'Product'[Product Name],
12   "Gabi's Order Amount", [Gabi's Order Amount]
13 )
14-
```

```
1+ // DAX query generated by Fabric Copilot with "Rewrite the "Gabi's Order Amount" measure so that it uses the DAX KeepFilters function"
2 DEFINE
3   MEASURE 'Orders'[Gabi's Order Amount] =
4     CALCULATE(
5       [Order Amount],
6+       KEEPFILTERS('Employee'[Employee Name] = "Gabi")
7     )
8
9 EVALUATE
10 SUMMARIZECOLUMNS(
11   'Product'[Product Name],
12   "Gabi's Order Amount", [Gabi's Order Amount]
13 )
```

DAX Query View

“Explain the avg order amount measure”

 explain the avg order amount measure X

[Suggest measures](#) [Explain a DAX topic](#) [Write a DAX query](#) [Retry](#)

The Avg Order Amount measure in your DAX model calculates the average amount of all orders. It does this by dividing the total order amount (Order Amount) by the total number of orders (Order Count).

The Order Amount measure is calculated by summing up the Amount column in the Orders table. The Order Count measure is calculated by counting the distinct number of Order ID in the Orders table.

The DIVIDE() function is used to perform the division because it handles division by zero errors. If the denominator is zero, the DIVIDE() function will return an alternative result, which is by default BLANK().

Here is the DAX code for the Avg Order Amount measure:

```
Avg Order Amount =  
DIVIDE(  
    [Order Amount],  
    [Order Count]  
)
```

This measure will give you the average order amount across all orders in your dataset. If you want to filter this measure by a specific attribute (like a specific product or customer), you can do so by adding a filter context in your report or dashboard.

[Show less ^](#)

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DAX Query View

“Optimise the Order Amount Apples measure and explain the suggested changes”

 Optimise the Order Amount Apples measure and explain the suggested changes X

Suggest measures Explain a DAX topic Write a DAX query Retry

The current "Order Amount Apples" measure is using the **FILTER** function inside **CALCULATE** to filter the 'Product' table where 'Product Name' equals "Apples". This is inefficient because **FILTER** function iterates over each row in the 'Product' table, which can be slow if the table is large.

A more efficient way is to use the **CALCULATE** function with a direct filter argument, instead of using the **FILTER** function. This is because DAX can optimize direct filter arguments more efficiently than a table returned by the **FILTER** function.

Here is the optimized measure:

```
Order Amount Apples Optimised =  
CALCULATE(  
    [Order Amount],  
    'Product'[Product Name] = "Apples"  
)
```

In this optimized measure, 'Product Name' equals "Apples" is used as a direct filter argument in the **CALCULATE** function. This approach is more efficient because DAX can optimize the calculation by using column-based storage and compression, which can significantly improve the performance for large tables.

[Show less ^](#)

Content created by AI may contain mistakes, so review it carefully. [Read terms](#)

DAX Query View

- Copilot in DAX Query View is not magic
- It's not perfect and it will hallucinate or make bad suggestions occasionally
- It will not replace all the other tools and techniques you use today to write DAX
- “Copilot is not a pilot”: Copilot won't do your job for you but will help you do your job faster and better

FAQ

Q: Will Copilot take my job

No ☺ - We are all safe. Human needed in the loop

Q: Where is my data going

Your data is being processing according to our Geo/region rules of Azure. We have GPU's in our PBI cluster and are not sending the data or storing it anywhere

Q: How can I see whose using Copilot

We log in the audit logs usage of copilot

Q: Can I control who can use Copilot

Yes, its admin and capacity configurable

Demo



Copilot in Power BI for end users

Sneak Peek



+ New report

New items saved to:  My workspace

Recommended

My workspace
You frequently open this

[Open](#)

Contoso Customer Loyalty Program
You favorited this

[Open](#)

FY24 KPIs
Patrick Baumgartner featured this

[Open](#)

Contoso Outdoors
You frequently open this

[Open](#)

Contoso Sales Performance
You favorited this

[Open](#)[Recent](#)[Favorites](#)[My apps](#) Filter by keyword[Filter](#)

 Name	Type	Opened	Location	Endorsement	Sensitivity
 My workspace  	Workspace	14 hours ago	Workspaces	—	—
 Contoso Outdoors 	Workspace	14 hours ago	Workspaces	—	—
 LoyaltyProgramDWUpdate  	Workspace	19 hours ago	Workspaces	—	—
 Contoso Sales Analytics 	Workspace	a day ago	Workspaces	—	—
 Store Sales Analytics	Report	a day ago	Contoso Sales Analytics	—	Non-Business 
 Contoso Outdoors - Online Retail Data Tier 	Workspace	a day ago	Workspaces	—	—
 ContosoOutdoors  	Workspace	a day ago	Workspaces	—	—
 Contoso Outdoors Analytics  	Workspace	a day ago	Workspaces	—	—

Pure Phyton

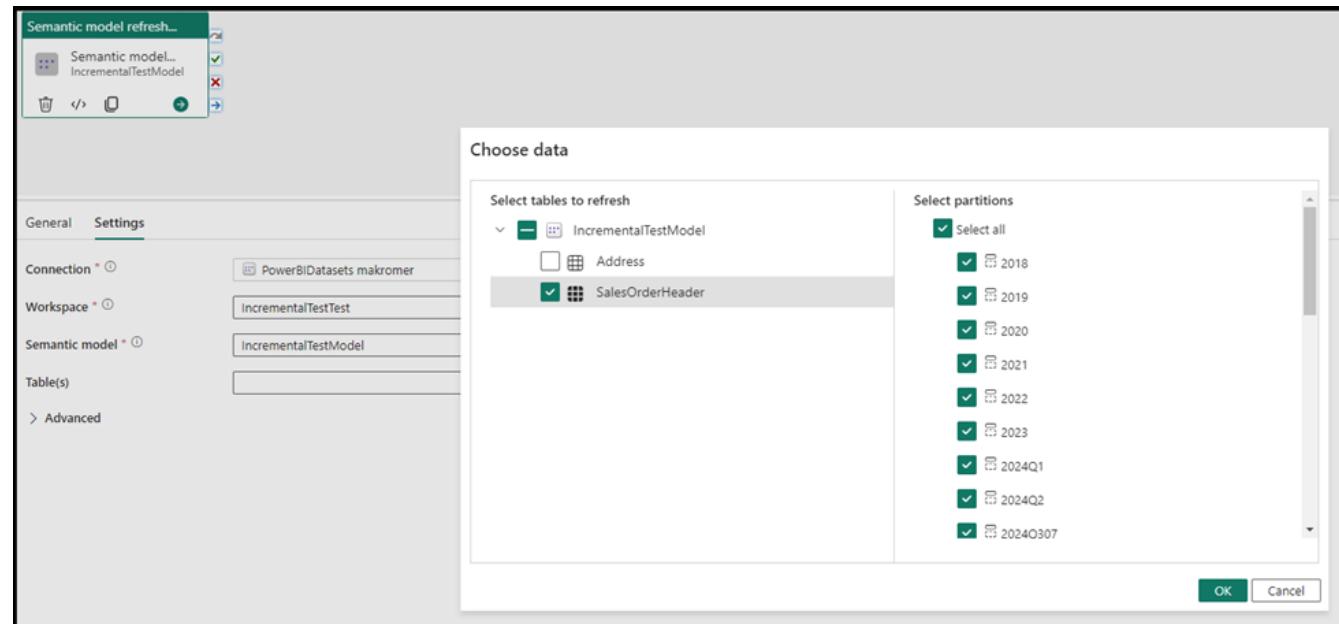
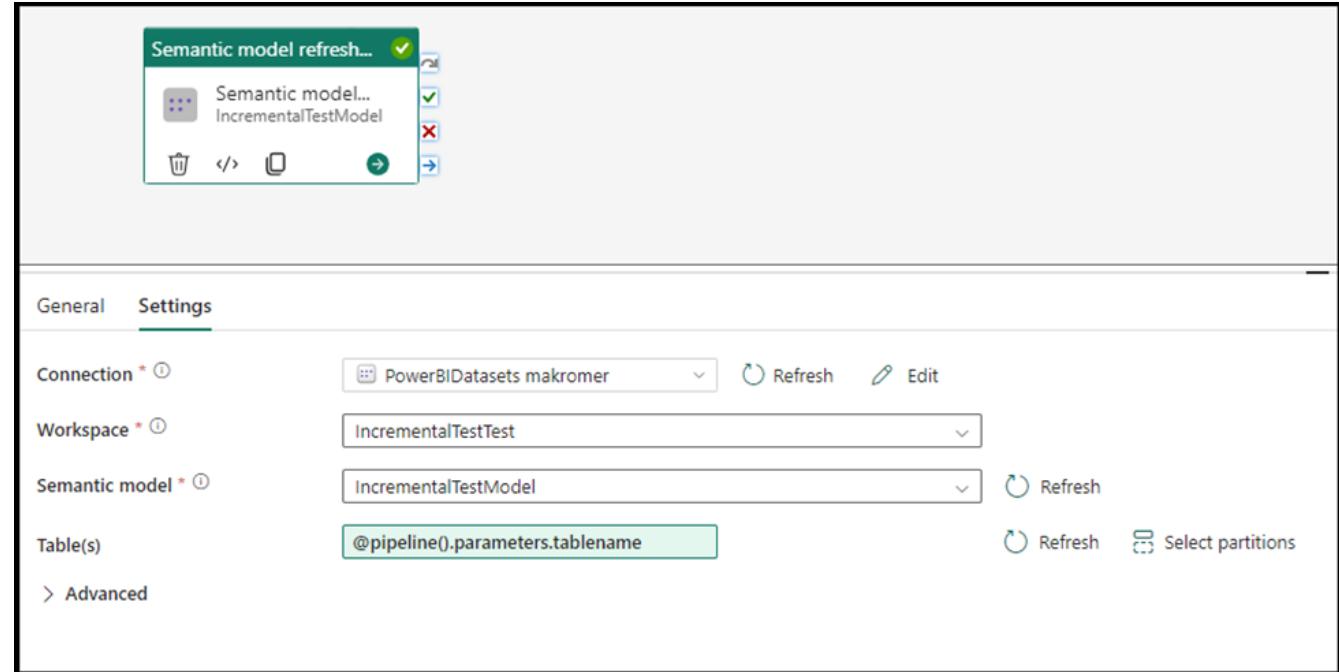
The screenshot shows a Jupyter Notebook interface with the following components:

- Toolbar:** Includes "Download as", "Run", "View", "Edit" (pen icon), "Cell" (down arrow icon), "Kernel" (gear icon), "Run all" (play icon), "Connect" (key icon), "Python 3.11" (dropdown), "Data Wrangler" (grid icon), and "Copilot" (colorful icon).
- Left Sidebar (Explorer):** Shows "Data sources" (button), "Resources" (folder icon, "Uploaded data and files"), and "Lakehouses" (house icon, "1 item(s) added").
- Code Cell:** Displays the following Python code:

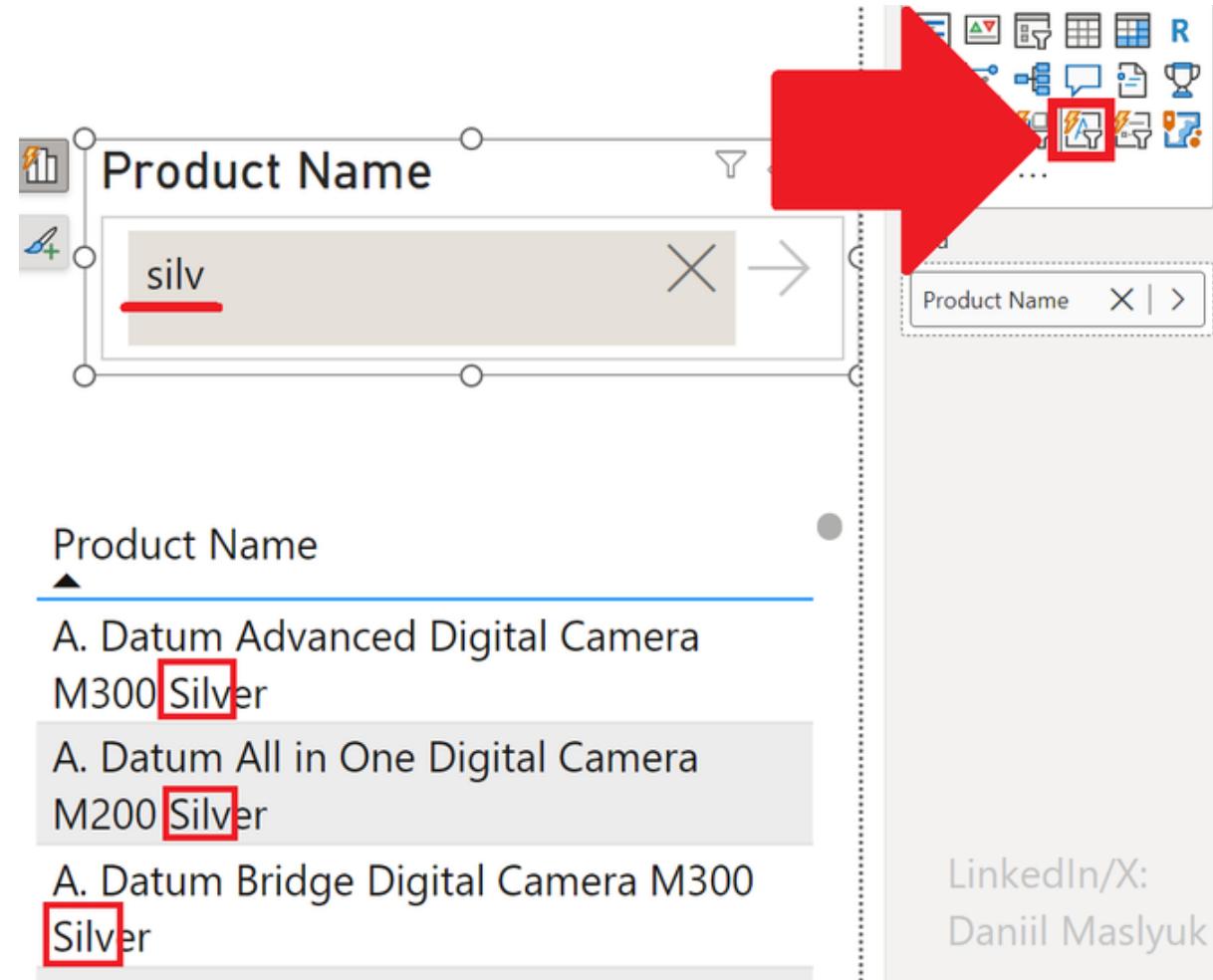
```
2 import time
3 from psutil import *
4 vCPU = str(cpu_count()) + " vCPU"
5 mem=round(virtual_memory().total/(1024 * 1024 * 1024),0)
6 runtime = vCPU+' '+str(mem)+'GB'+', Transform CSV files
7 result = duckdb.sql(""""
8
9
10
11
12
    with raw as (
        select Engine, date_trunc('day', timestamp) as timestamp, count(*) as file_count
        from delta_scan('/lakel
        where
            total_files = 2300
    )
```

New Features for Fabric DF Pipelines

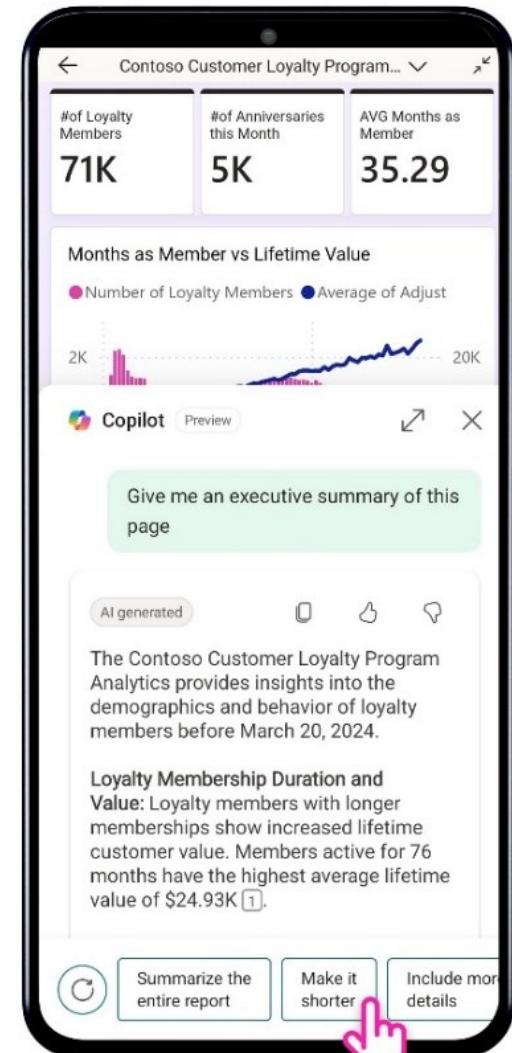
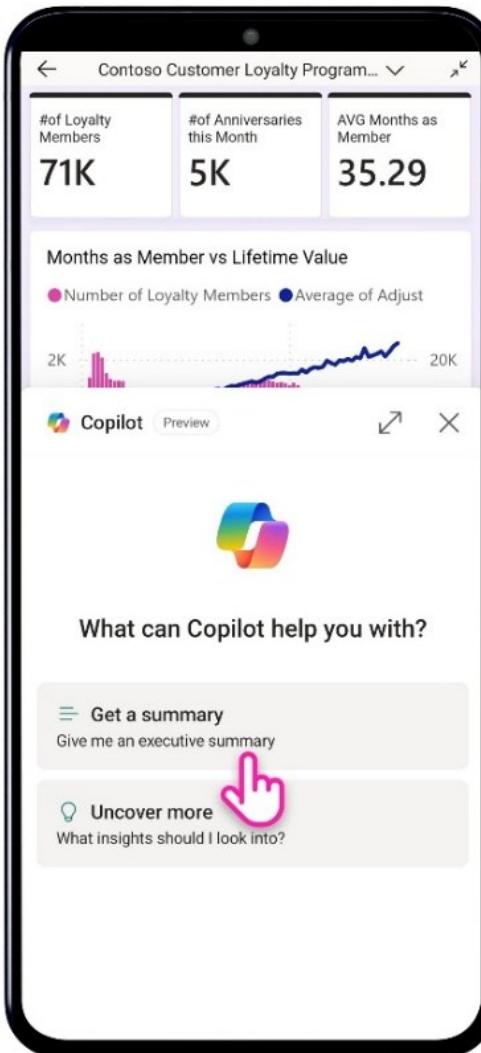
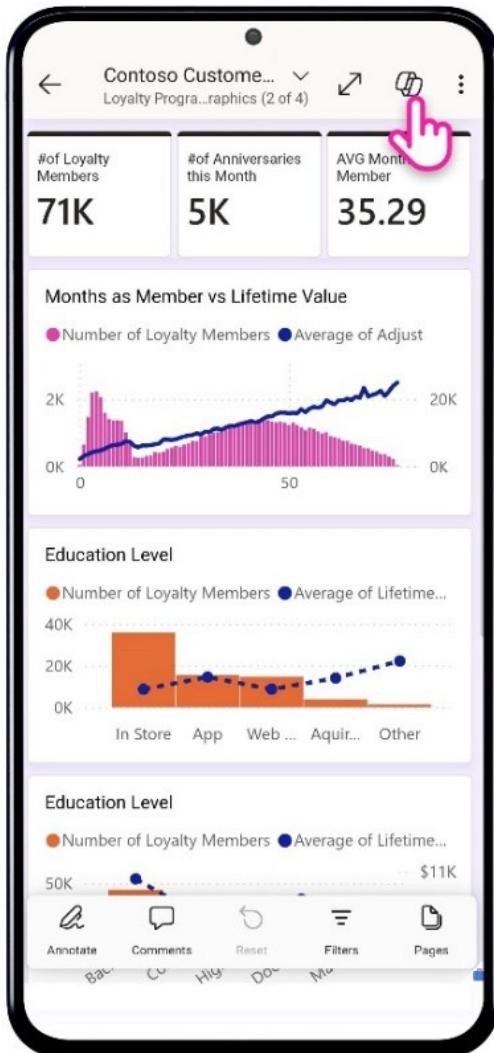
- option to refresh specific tables / partitions in semantic models



Text slicer (preview) in November 2024 Power BI Desktop [!!!]



Copilot in Power BI mobile apps (Preview)



Copilot summaries in subscriptions (Preview)

File Export Share Chat in Teams Explore this data Get insights [Subscribe to report](#) Set alert Edit ... Copilot Overview Trends Insights

Contoso SALES Sales Overview

Revenue won \$11.43M Qualified Pipeline \$19.90M Revenue goal \$23M Forecast 136%

Revenue Open by Sales Stage

Sales Stage	Revenue
1-Qualify	\$7,912.02K
2-Develop	\$8,170.42K
3-Propose	\$7,264.68K
4-Close	\$4,465.27K

WHAT IF the qualified forecast was adjusted by 0 % ?

By Team + User By Product

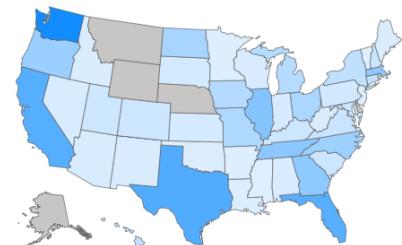
Revenue Won and Revenue In Pipeline by Product LOB

Product Category	Revenue Won	Qualified P...	Forecast %
Accessories	\$4,485.19K	\$7,035.43K	128%
Devices	\$3,672.98K	\$6,605.71K	128%
Warranties	\$3,271.66K	\$6,259.22K	136%

Forecast by Territory

Territory	Revenue Won	In Pipeline	Forecast %
US-SOUTH	\$4,520,554.00	\$7,269.60K	131%
US-WEST	\$3,041,107.00	\$6,061.89K	130%
US-MIDWEST	\$2,686,629.00	\$4,367.79K	141%
US-NORTHEAST	\$1,181,536.00	\$2,201.09K	113%
Total	\$11,429,826.00	\$19,900.36K	136%

Forecast by Location



Subscriptions

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Time zone *

(UTC-08:00) Pacific Time (US and Canada)

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 Summary by Copilot (preview) ①

Include an AI-generated summary, which will update according to the latest data.

Preview a sample of the summary to see what it may look like.

Copilot uses AI. Mistakes are possible. [Read terms](#)

 Preview summary

 On

Copilot summaries in subscriptions (Preview)

File Export Share Explore Subscribe Set alert Edit ...

SALES

Sales Overview

Revenue won \$11.43M Qualified Pipeline \$19.90M Revenue goal \$23M

Revenue Open by Sales Stage

Sales Stage	Revenue Open
1-Qualify	\$7,912.02K
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Total	\$11,429,826.00	\$19,900.36K	136%

Preview a sample summary by Copilot

The following text is a sample of how the summary appears in the email. Every time an email is sent, the summary is auto-generated based on the latest data.

Summary by Copilot

Win/Loss Ratio Overview

Top Performers: Dan Jump with 82.81% Close Rate**, followed by Jordan Williams at 94.53%

Revenue Open and Close: Top opportunities for Riley Johnson at \$3.20M with a Close Rate of 71.12%

Lowest Performance: Jeff Hay at 17.84% Close Rate with \$810.92K in Revenue Open

Trend Analytics

Fluctuations in Revenue: Highest single-day revenue won: \$161.37K on 2021-07-27, and another significant spike of \$158.65K on 2021-09-03

Consistent Anomalies: A noticeable anomaly with a revenue of \$4.73K on 2020-10-02, deviating significantly from expected ranges

Days to Close Insights

Top Performers by Days to Close: Jeff Hay with the shortest average DaysToClose of 85.69 days; Julian Isla had an average of 92.16 days

Industry Variations: Marine Transportation takes 137.33 days on average, whereas Diversified Commercial Services closes in 65 days

Key Influencers: Anne Weiler's average DaysToClose is 32.29 units higher than other owners. For the product E-reader Platinum 8*, it's 18.39 units higher

Copilot uses AI. Mistakes are possible. [Read terms](#)

Got it

WHAT IF the q

Win/Loss Ratio Overview

By Team

Product Category

Accessories

Black cover

E-reader p

Black cov

Devices

E-reader Pl

E-reader D

E-reader Pl

E-reader D

E-reader S

Warranties

1 Year War

Total

Subscriptions

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Manage all

Sales Overview

Unused changes

Subscription name *

Sales Overview

Recipients *

Nirupama Srinivasan

Attach full report

PDF (.pdf)

Send to *

Email

Scheduled date and time

Start date * End date

10/22/2024 Select a date

Repeat *

Daily

Scheduled time *

5 00 PM

Time zone *

(UTC-08:00) Pacific Time (US and Canada)

Emails will be sent daily at 05:00 PM (UTC-08:00) Pacific Time (US and Canada) starting Tuesday, October 22, 2024.

Summary by Copilot (preview)

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Preview summary

On

More options

Send now

Subscription must be saved before sending.

Save New subscription

Copilot summaries in subscriptions (Preview)

Sales Overview - Copilot

🕒(Preview) Summary from Copilot (generated on October 25, 2024 18:20 UTC)

Regional Sales Sample Report: Key Insights

**Sales Overview:

- Qualified Revenue in Pipeline stands at \$19.90 million .
- Revenue Won is \$11.43 million .
- The Forecast Percentage is notably high at 136.22% .
- The Revenue Goal is set at \$23 million .

Revenue Open by Sales Stage:

- Highest open revenue is in the Develop stage with \$8.17 million.
- The Qualify stage has \$7.91 million while Close has the lowest at \$4.47 million

Product Line Overview:

- Accessories lead with \$4.49 million won and \$7.04 million in the pipeline.
- Devices show \$3.67 million won and \$6.61 million in the pipeline.
- Warranties display \$3.27 million won and \$6.26 million in the pipeline.

Revenue and Forecast by Product:

- Accessories: \$4.49M won, \$7.04M pipeline, 128.01% forecast.
- Devices: \$3.67M won, \$6.61M pipeline, 128.48% forecast.
- Warranties: \$3.27M won, \$6.26M pipeline, 136.16% forecast .

Territory Insights:

- US-SOUTH: \$4.52M won, \$7.27M pipeline, 131% forecast .
- US-WEST: \$3.04M won, \$6.06M pipeline, 130.04% forecast .
- US-MIDWEST: \$2.69M won, \$4.37M pipeline, 141.09% forecast .

State-Specific Revenues:

- WA: \$1.22M won, \$2.49M pipeline.
- TX: \$1.18M won, \$1.71M pipeline.
- CA: \$930.87K won, \$1.65M pipeline .

Calculated Insights:

- Accessories had the highest revenue won at \$4.49M.
- Warranties had the lowest revenue won at \$3.27M.
- There is a positive correlation between Revenue Won and Revenue In Pipeline.
- Revenue Divergence for Warranties: \$2.99M more in pipeline than won .

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Core Visuals Vision Board

Core Visuals Vision Board

 PBI Core Visuals
19,446 followers

November 20, 2024

We believe that clear, up-to-date, and relevant information is essential to building a strong and confident relationship with all of you. That's why we're introducing our latest resource: the **Core Visuals Vision Board**.

We noticed that many of you were navigating multiple channels to share comments and make requests. To simplify this, our new Vision Board consolidates it into a single, comprehensive resource that brings everything together for your convenience.

At a glance, you'll notice the Core Visuals Team has been diligently compiling all the upcoming features and improvements, ranging from new visualizations to enhancements in existing functionalities.

The **Core Visuals Vision Board** is all about you being an integral part of our journey.

- <https://www.linkedin.com/pulse/core-visuals-vision-board-pbicorevisuals-d1dhf/>

Core Visuals Vision Board

 Power BI
CORE VISUALS VISION BOARD

NAVIGATION HUB

Visual insights

- Callout visuals
 - Card
 - Gauge
- Cartesians
- Part-of-whole visuals
- Matrix and table
- Geospatial
- Filters and slicers
- Style
- Interactivity
- Canvas
- New visuals
- Elements
- Roadmap

EPIC IDEAS

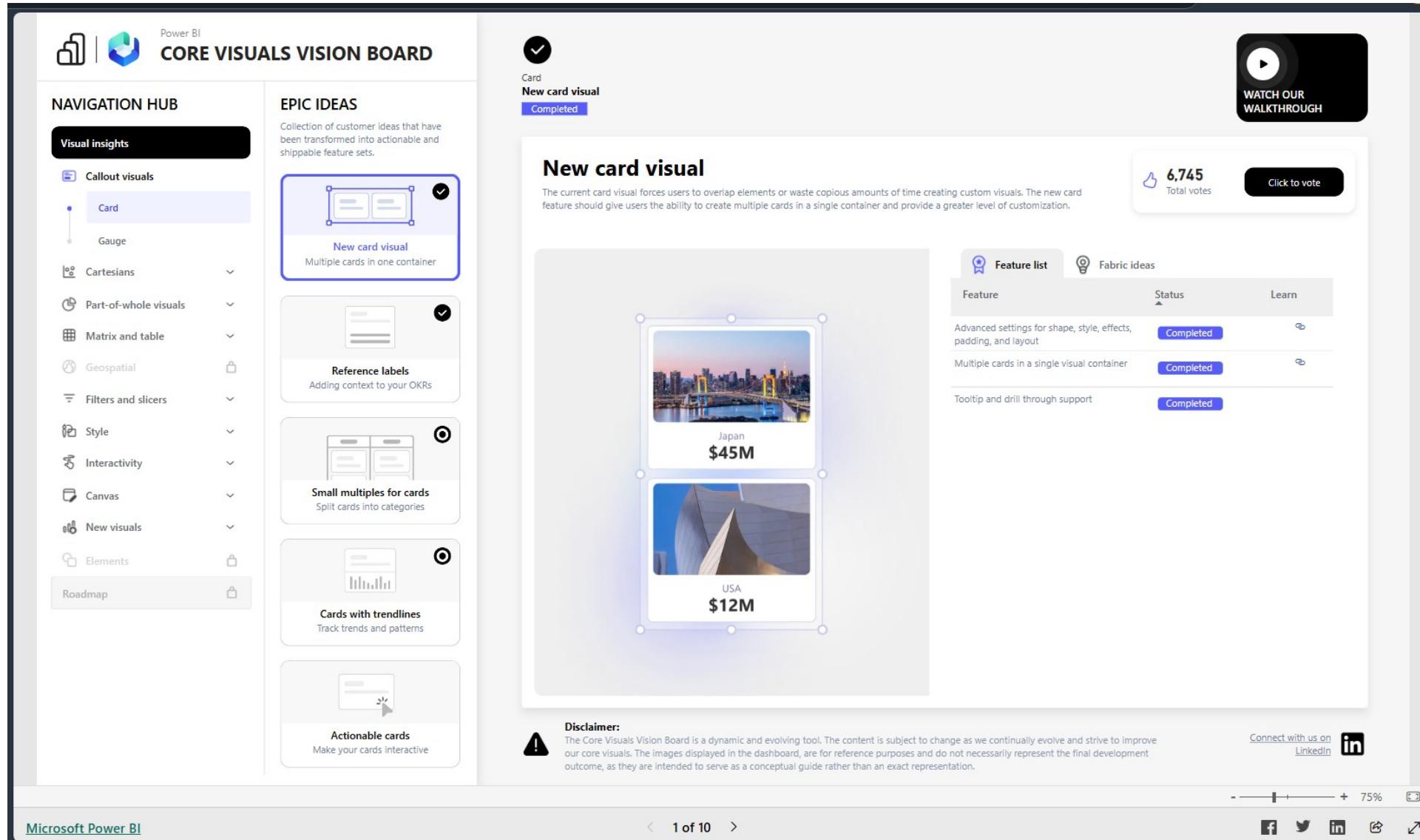
Collection of customer ideas that have been transformed into actionable and shippable feature sets.

- New card visual
- Reference labels
- Small multiples for cards
- Cards with trendlines
- Actionable cards

Card
New card visual
Completed

New card visual

The current card visual forces users to overlap elements or waste copious amounts of time creating custom visuals. The new card feature should give users the ability to create multiple cards in a single container and provide a greater level of customization.



WATCH OUR WALKTHROUGH

New card visual

The current card visual forces users to overlap elements or waste copious amounts of time creating custom visuals. The new card feature should give users the ability to create multiple cards in a single container and provide a greater level of customization.

Feature list **Fabric ideas**

Feature	Status	Learn
Advanced settings for shape, style, effects, padding, and layout	Completed	
Multiple cards in a single visual container	Completed	
Tooltip and drill through support	Completed	

Disclaimer:
The Core Visuals Vision Board is a dynamic and evolving tool. The content is subject to change as we continually evolve and strive to improve our core visuals. The images displayed in the dashboard, are for reference purposes and do not necessarily represent the final development outcome, as they are intended to serve as a conceptual guide rather than an exact representation.

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Microsoft Power BI

1 of 10

75%

f t in g

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