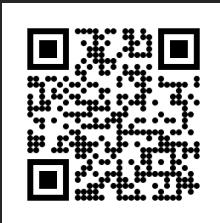


Copilot in Fabric – Explained for the Administrator!

Benni De Jagere



Slides





Benni De Jagere

Principal Program Manager | Fabric Customer Advisory Team (FabricCAT)



Fabric CAT



.be Member



/bennidejagere

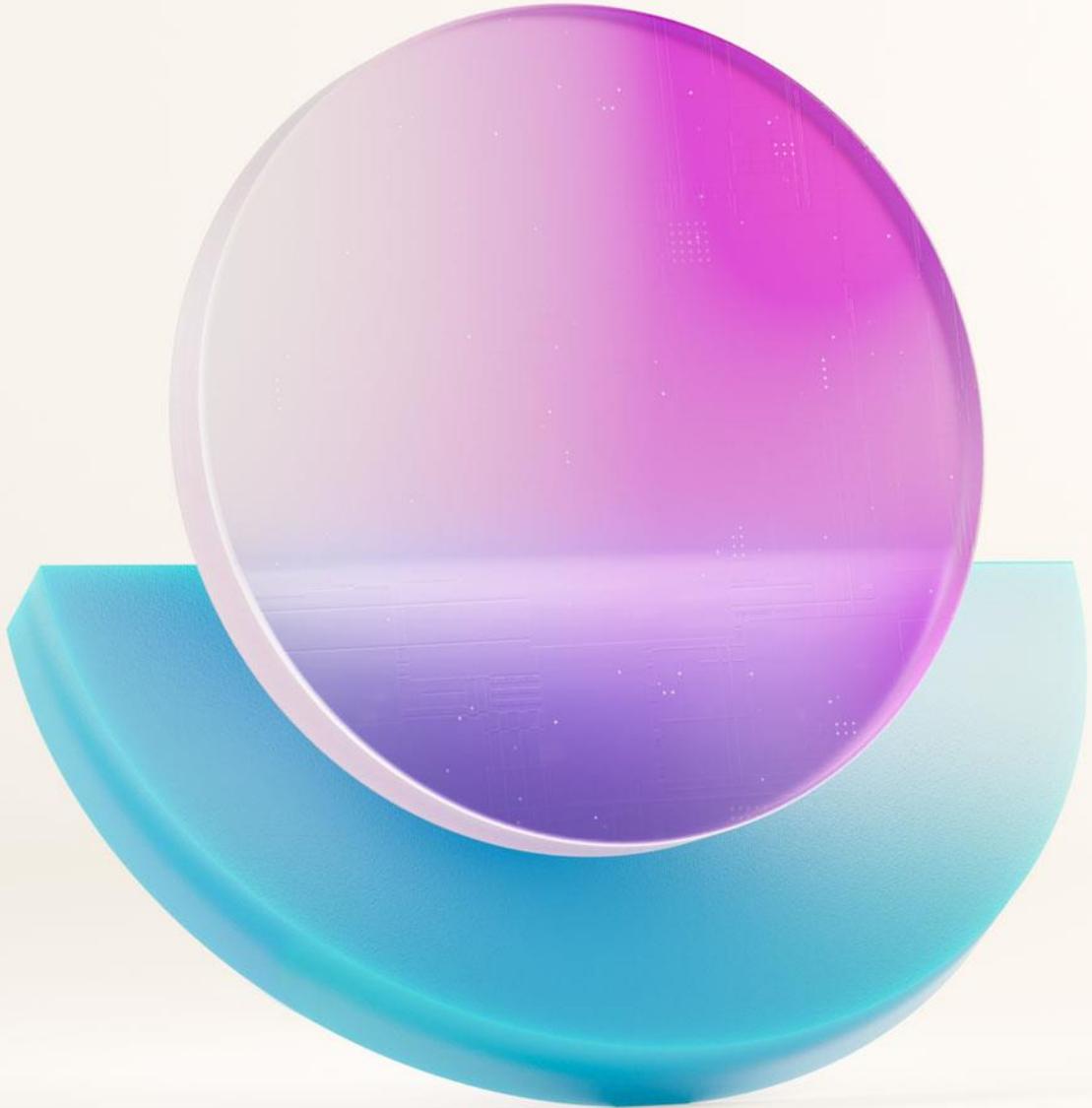


/bennidejagere



/bennidejagere





Setting The Scene

Things we'll cover

Access Control

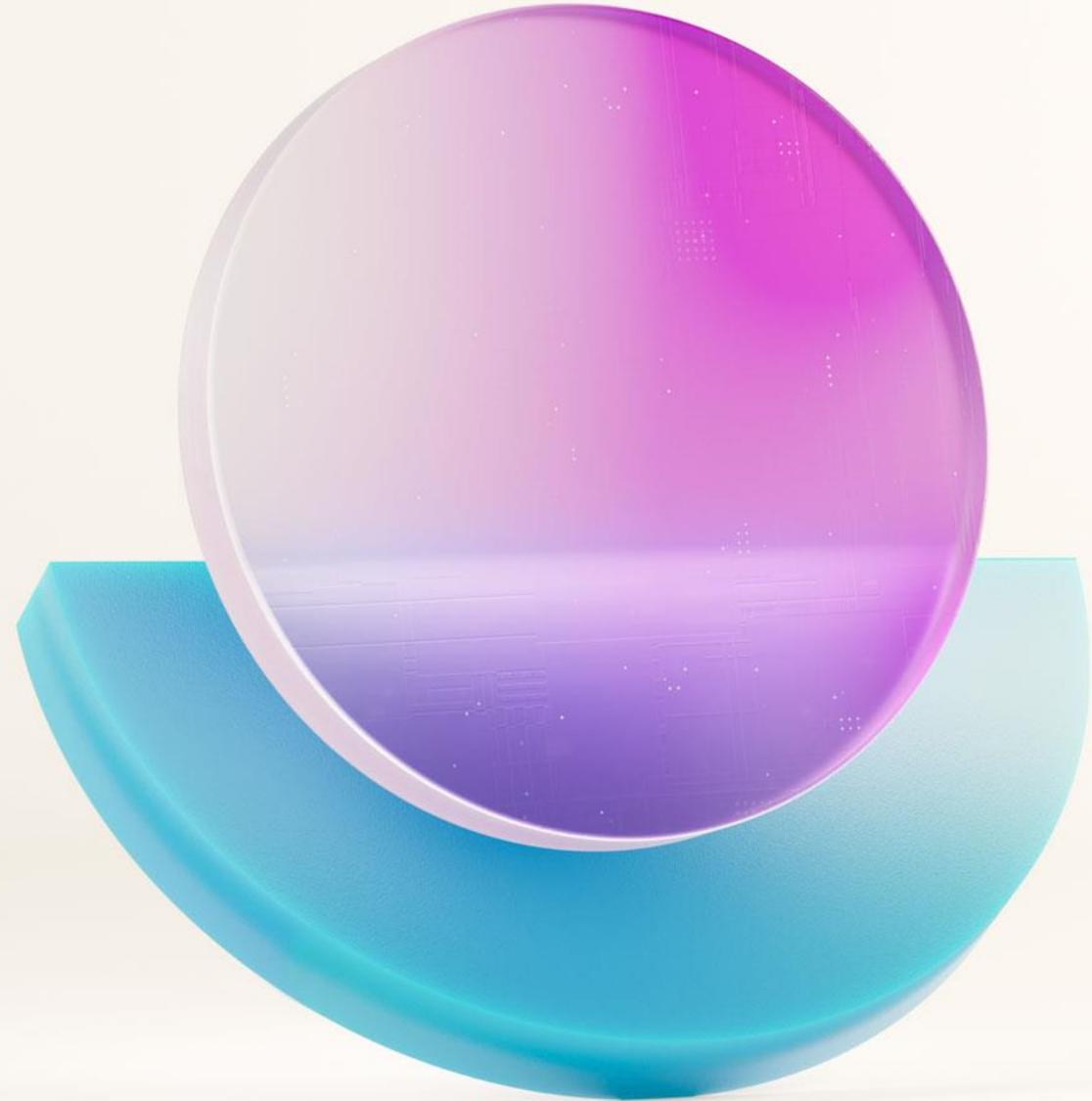
Data Residency

Capacity Consumption

Audit Logs

Random things I've seen, because I've been too deep 😊

BONUS.. User Education



Where Copilot fits in

Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Analytics



Databases



Real-Time
Intelligence



Power BI



AI



OneLake



Governance

Fabric Platform

Microsoft Fabric

The unified data platform for AI transformation



Power BI



Semantic Models



Exploration



Visualization



Chat



AI



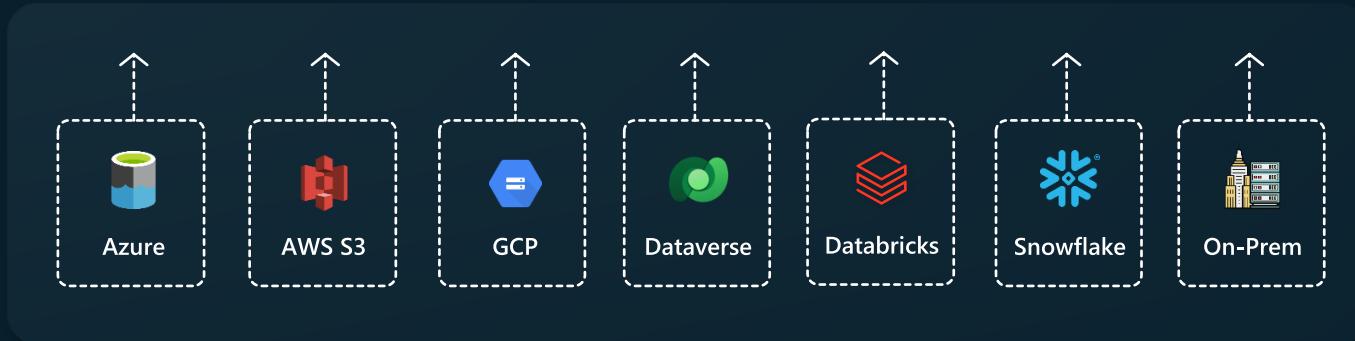
OneLake



Governance

Fabric Platform

Foundation: OneLake unifies the data estate

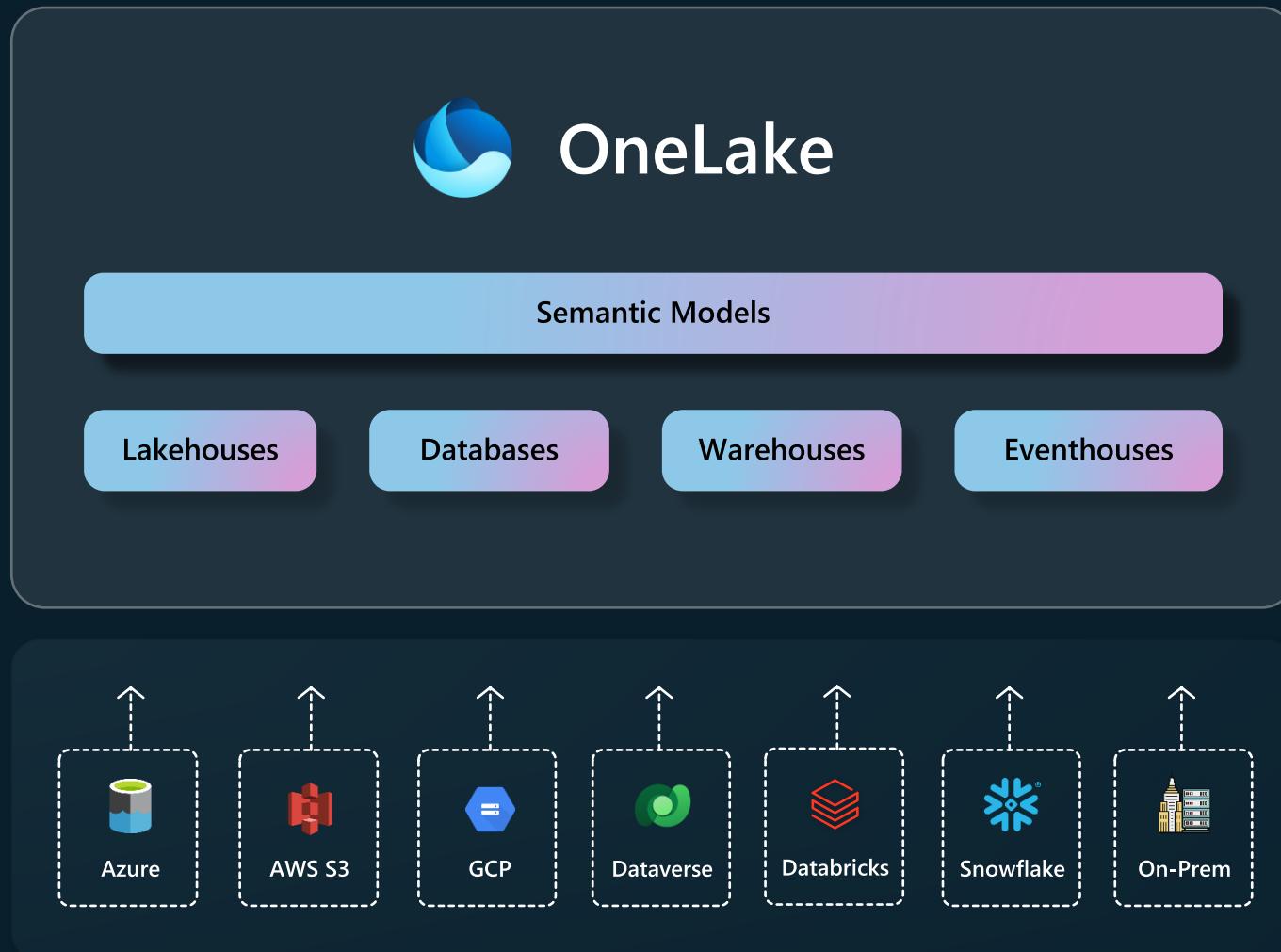


The first step in creating a comprehensive AI-driven analytics system is to bring all the data together

OneLake unifies all data, structured and unstructured, across all clouds and databases, providing a layer of curation

OneLake provides a single pane of glass for data access, governance and security

Foundation: Define Business Semantics



Semantic models are expertly curated repositories of business data and corporate metrics

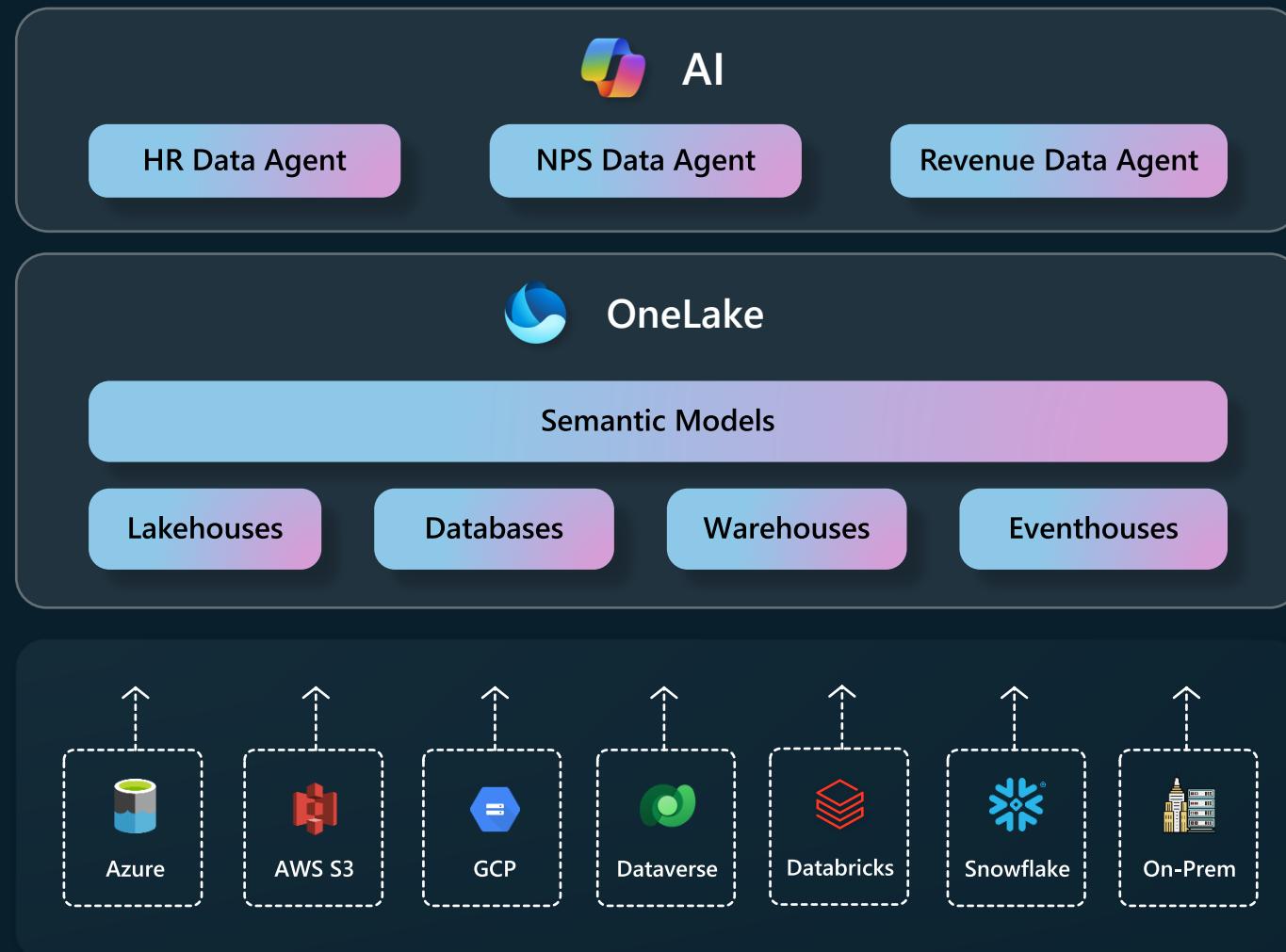
Industry rush towards semantic models as key AI enablers



30M MAU are regularly using 10+ million of PBI semantic models

The market footprint of PBI semantic models gives Microsoft significant leg up

Foundation: OneLake unifies the data estate



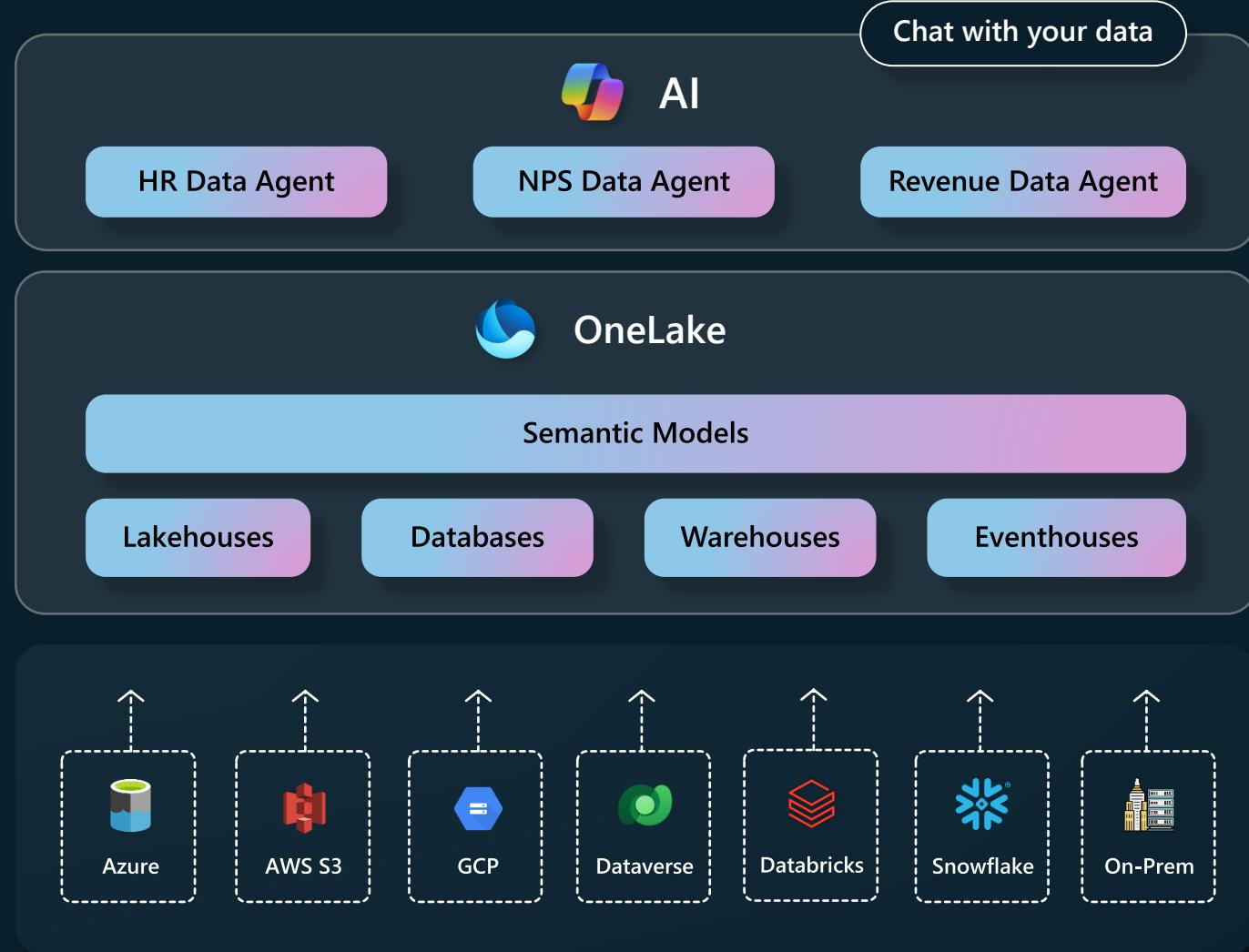
Data Agents are analytical agents that have general ability to author queries and run analysis

They are provided with a source-specific “operator’s manual” on how to properly query and analyze the data

Includes instructions for when to use what data, how to understand questions, what are well known answers to common inquiries, multi-shot examples (Training your own Copilot)

The Data Agent can run simple queries or perform complex multi-step analysis

Foundation: OneLake unifies the data estate

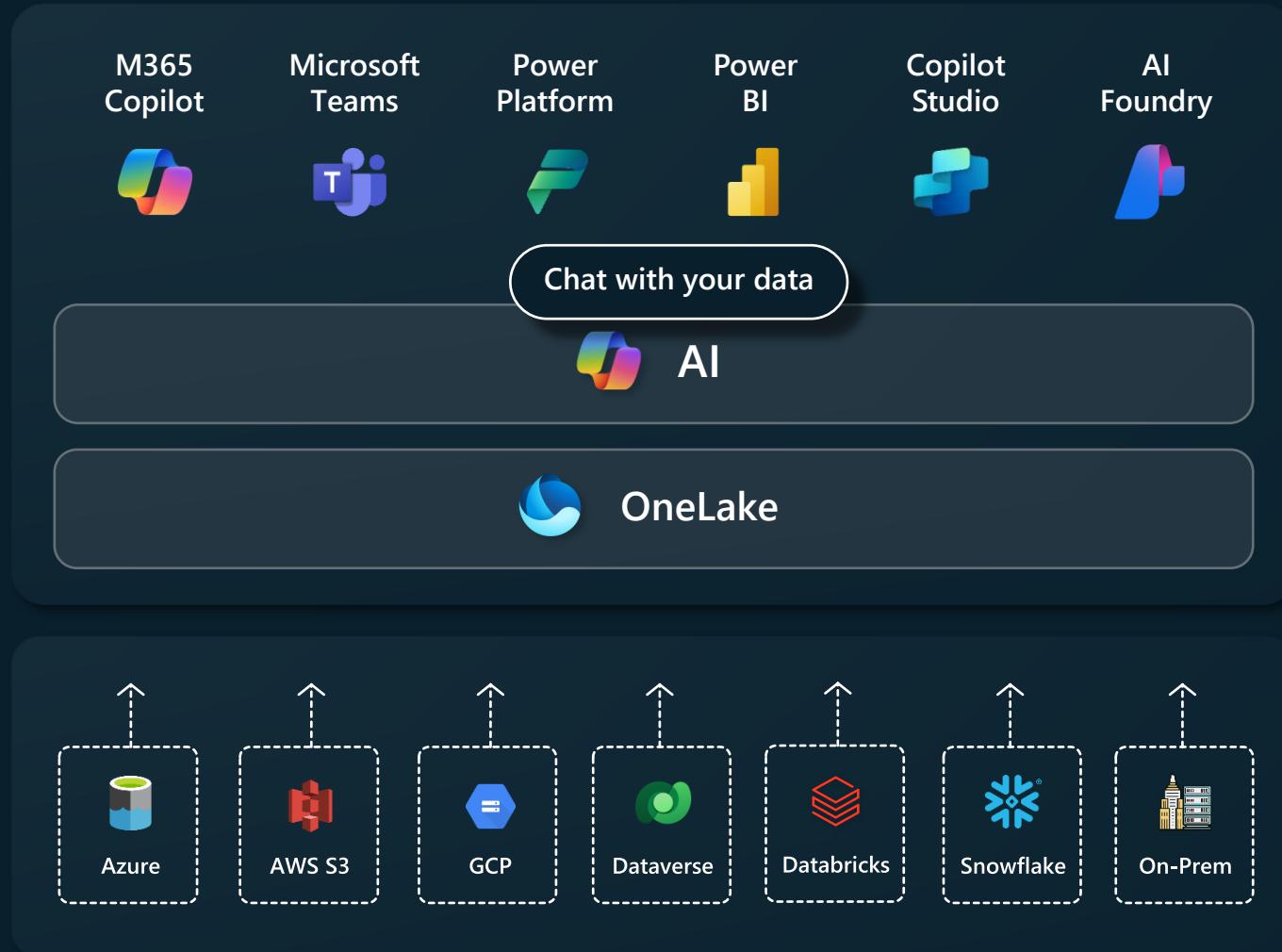


A “Chat with your data” REST endpoint allows users and apps to submit NL data questions

Fabric will determine which data to base the answer on, based on the user permissions and usage patterns

Answers will be served from Data in OneLake using the matching Data Agent

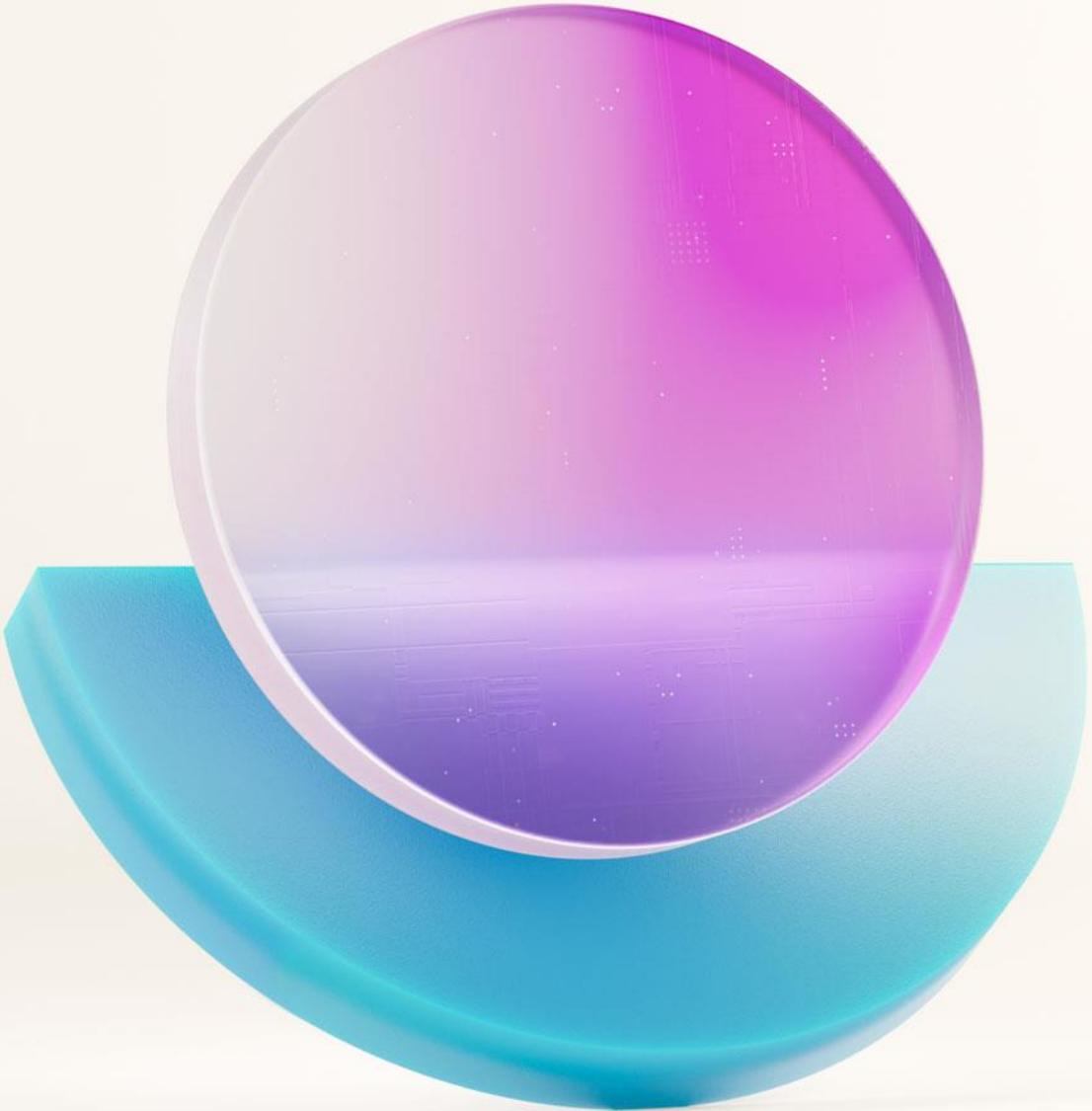
Integrated in M365 ++



The ability to converse with the data is going to be available in M365 apps and Copilot, Power Platform, and Foundry

Power BI Home will provide enhanced graphical experience (not avail yet in M365 due to platform limitations)

Open Question: Should this capability be integral part of the M365 Copilot product (ala PBI in E5)?



Access Control

What determines who can use
Copilot in Fabric?

Tenant Settings

Control through **Security Groups**

Often scoped to specific ones

Capacity Region is key, not Tenant
(Home) Region

See: Data Residency

Users can create Fabric Items

Not required to use Copilot for
Power BI

Not required to use other Copilot
experiences (Warehouse, Notebooks,
Pipelines, ..)

The screenshot shows the Microsoft Admin portal interface. On the left is a sidebar with various navigation options: Home, Copilot (highlighted), Create, Browse, OneLake catalog, Apps, Metrics, Monitor, Learn, Real-Time, Workloads, and Workspaces. The main content area is titled "Admin portal" and "Tenant settings". A message at the top right says, "There are new or updated tenant settings. Expand to review the changes." Below this, a section titled "Microsoft Fabric" contains the following information:

- Users can create Fabric items**: Described as "Enabled for the entire organization". A toggle switch is set to "Enabled".
- Apply to:** Radio buttons for "The entire organization" (selected), "Specific security groups", and "Except specific security groups".
- Delegate setting to other admins**: A link to select admins.
- Capacity admins can enable/disable**: A checked checkbox.

At the bottom are "Apply" and "Cancel" buttons.

Tenant Settings

Users can use Copilot ..

Controls Copilot in Fabric, Data Agents, and AI Functions

Data sent to Azure OpenAI can be processed ..

Applies to all skills & experiences
Can be delegated to capacity

Data sent to Azure OpenAI can be stored ..

Only applies to Notebooks, Data Agents

Stores conversation history, no actual data points

The screenshot shows the Microsoft Fabric Admin portal interface. At the top, there's a blue header bar with the Microsoft Fabric logo, a search bar, and various navigation icons. On the right side of the header, it says "Fabric Trial: 22 days left". Below the header, the main content area has a dark background. On the left, there's a sidebar titled "Admin portal" with several options: Tenant settings (highlighted with a red box), Usage metrics, Users, Premium Per User, Audit logs, Domains (New), Workloads, Tags (New), and Capacity settings. To the right of the sidebar, there's a message: "There are new or updated tenant settings. Expand to review the changes." Below this message, under the heading "Copilot and Azure OpenAI Service", there are three items, each with a small icon and text:

- ▷ Users can use Copilot and other features powered by Azure OpenAI
Enabled for the entire organization
- ▷ Data sent to Azure OpenAI can be processed outside your capacity's geographic region, compliance boundary, or national cloud instance
Enabled for the entire organization
- ▷ Data sent to Azure OpenAI can be stored outside your capacity's geographic region, compliance boundary, or national cloud instance
Enabled for the entire organization

A red box highlights the "Tenant settings" link in the sidebar, and another red box highlights the search bar at the top right. A green box highlights the second item in the list under "Copilot and Azure OpenAI Service", and an orange box highlights the third item.

Tenant Settings (Standalone Copilot)

Users can access a standalone, cross-item ..

Specific to Copilot for Power BI, due to Preview nature

No delegation to capacities

The screenshot shows the Microsoft Admin portal interface. On the left, there's a sidebar with various navigation options like Tenant settings (which is selected and has a 'New' badge), Usage metrics, Users, Premium Per User, Audit logs, Domains (also with a 'New' badge), Workloads, Tags (with a 'New' badge), Capacity settings, Refresh summary, Embed Codes, Organizational visuals, Azure connections, Workspaces, Custom branding, Fabric identities, Featured content, Microsoft Purview setting, Help + support, and Data Policies.

The main content area is titled 'Copilot and Azure OpenAI Service'. It contains three items:

- Users can sync workspace items with GitHub repositories (Enabled for the entire organization)
- Users can use Copilot and other features powered by Azure OpenAI (Enabled for the entire organization)
- Users can access a standalone, cross-item Power BI Copilot experience (preview) (Enabled for the entire organization)

The third item is highlighted with a red box. It includes a description: "When this setting is turned on, users will be able to access a Copilot experience that allows them to find, analyze, and discuss different Fabric items in a dedicated tab available via the Power BI navigation pane. This setting requires the following tenant setting to be enabled: 'Users can use Copilot and other features powered by Azure OpenAI.' [Learn More](#)". Below this is a toggle switch set to 'Enabled', and a section for 'Apply to:' with radio buttons for 'The entire organization' (selected), 'Specific security groups', and 'Except specific security groups'. At the bottom are 'Apply' and 'Cancel' buttons.

At the very bottom of the main content area, there's a note: "Data sent to Azure OpenAI can be processed outside your capacity's geographic region, compliance boundary, or national cloud instance".

Capacities

Paid capacities (P || F) only

Delegated Setting to configure finer grain

Fetch Overview through API ([link](#))

No option to restrict delegation to Capacity Admins for Copilot setting

This does **not** block the usage of Copilot for data hosted by this capacity!

Control & Data plane does

Admin portal

Tenant settings New

Usage metrics

Users

Premium Per User

Audit logs

Domains New

Workloads

Tags New

Capacity settings

Refresh summary

Embed Codes

Organizational visuals

Azure connections

Workspaces

Custom branding

Fabric identities

Featured content

Help + support

Details Delegated tenant settings

Microsoft Fabric

- ▷ Users can create Fabric items
Enabled for all users in capacity
- ▷ Users can create and use ADF Mount items (preview)
Disabled for all users in capacity
- ▷ Users can create Healthcare Cohort items (preview)
Disabled for all users in capacity
- ▷ SQL database (preview)
Enabled for all users in capacity
- ▷ Digital Twin Builder (preview)
Enabled for all users in capacity
- ▷ Mirrored Azure Databricks Catalog (preview)
Enabled for all users in capacity
- ▷ Users can create variable libraries (preview)
Enabled for all users in capacity

Audit and usage settings

- ▷ Workspace admins can turn on monitoring for their workspaces (preview)
Enabled for all users in capacity

Copilot and Azure OpenAI Service

- ▷ Users can use Copilot and other features powered by Azure OpenAI
Enabled for all users in capacity

Control Plane

Workspace Permissions (Roles)

Viewer

Implicit **Read** on items hosted in workspace
“Consumer” Copilot skills will work (Power BI)
Summarize, Data Q&A, ...

Contributor/Member/Admin

Implicit **Build/Write** on items hosted in workspace
Creator Copilot Skills will work
Create a Page, Visual, ..

If allowed to create Fabric Items ([link](#))
“Non-Power BI” Copilot skills will work
Notebooks, Dataflows Gen 2, SQL, ..

Item Permissions (Share)

Explicit **Read** on item level
“Consumer” Copilot skills will work (Power BI)
Summarize, Data Q&A, ...
Can also give Explicit **Build/Write** on item level
Can use Creator skills
Create a Page, Visual, ..
If allowed to create Fabric Items ([link](#))
“Non-Power BI” Copilot skills will work
Notebooks, Dataflows Gen 2, SQL, ..
Needs to be able to create/edit items in a workspace!



Data Plane

"Copilot is insecure because it bypasses permissions ?!"

Actions and results are determined by:

Entra Identity of the user

Pay attention when using a delegated model (i.e. Semantic Model in Import Mode)

Tenant/Capacity Setting configuration

Control Plane permissions

Read/Build/Write

Data Plane permissions

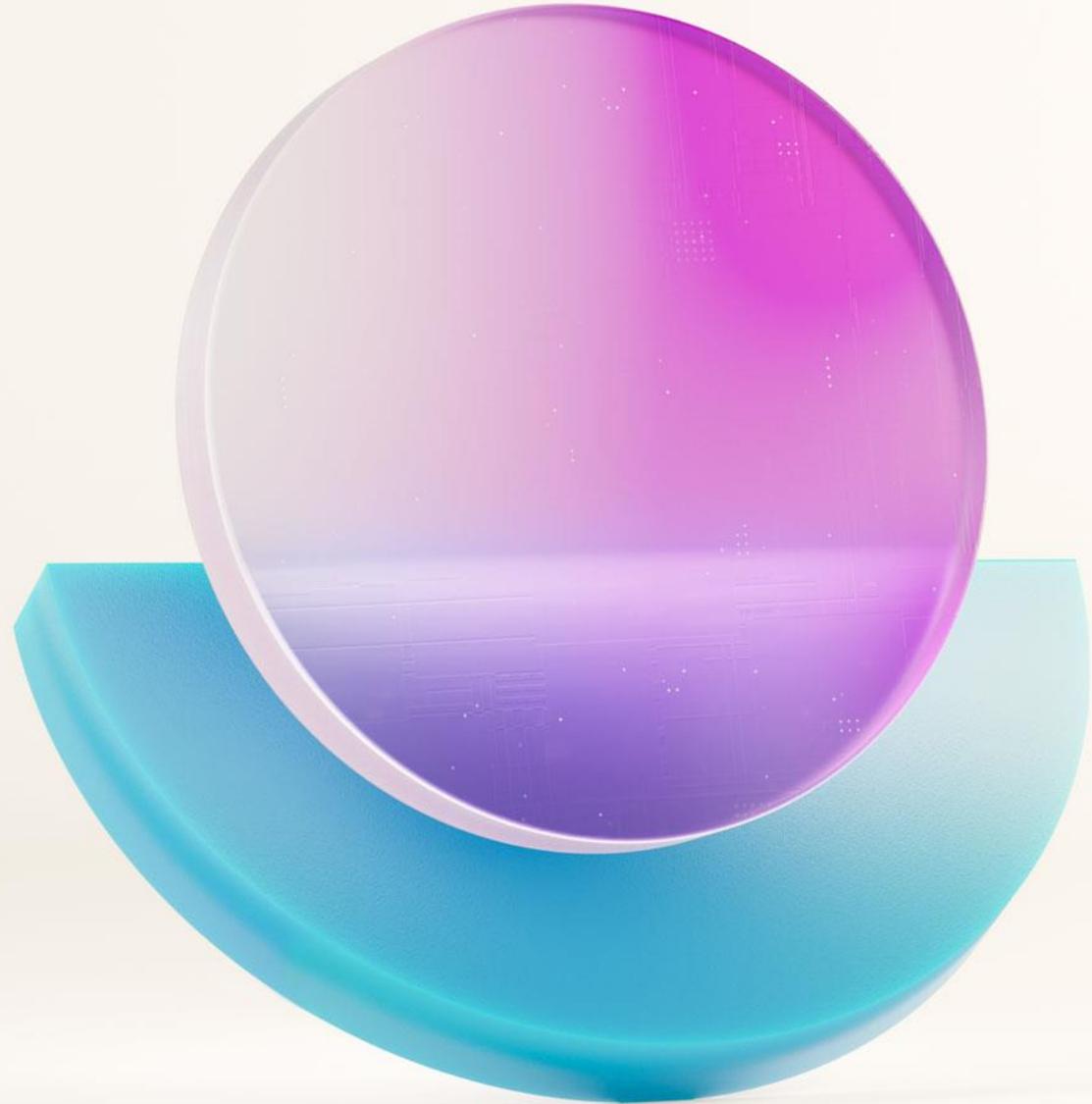
RLS/OLS/..

In *reality*:

Plenty of semantic models and reports *obfuscate* things from users, depending on **Build** permissions

Copilot *exposes* all items with read permissions

What will OneLake Security bring?



Data Residency

Data Residency

"Where does my data go?"

Determined by Capacity Region & Tenant Settings ([link](#))

Geographic area where your Fabric Capacity is located	Geographic area where Azure OpenAI Service is hosted	Data processing outside your capacity's geographic region?	Actions required to use Fabric Copilot
US	US	No	Turn on Copilot.
EU Data Boundary	EU Data Boundary	No	Turn on Copilot.
UK	EU Data Boundary	Yes	Turn on Copilot. Enable cross-geo data processing.
Australia Brazil Canada India Asia Japan Korea South Africa Southeast Asia United Arab Emirates	US	Yes	Turn on Copilot. Enable cross-geo data processing.

"Does my data get stored?"

No actual data points get stored

Even with initial behaviour of only storing prompts (Abuse Monitoring)

No longer applies! ([March 2024 Power BI Update](#))

Data Residency

"What data does Copilot in Fabric actually use?"

It depends .. 

Metadata, unless instructed by a user (grounding process)

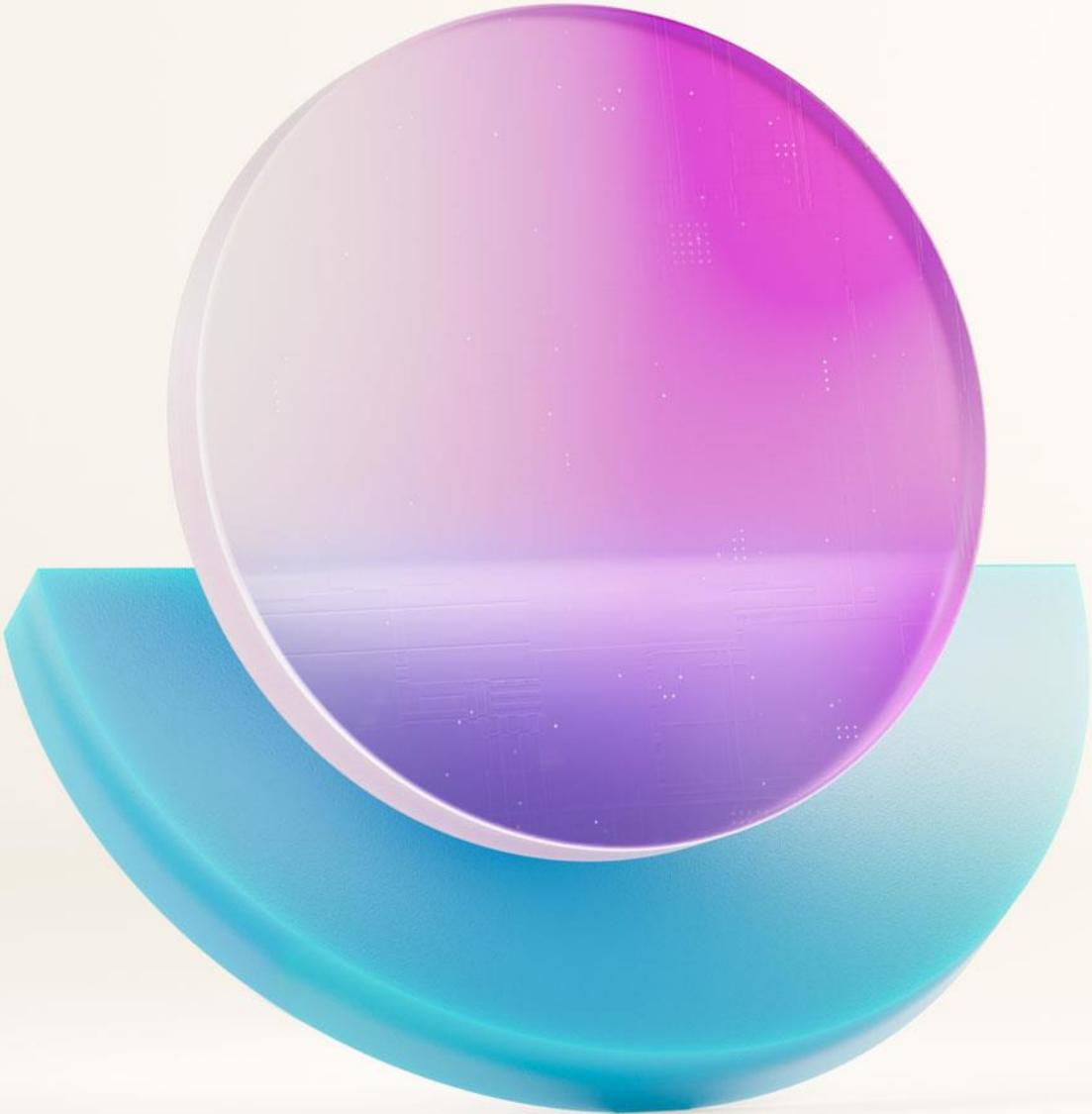
Prompts get sent, so whatever a user puts in ..

Revise "Responsible use in ..", "Data use in .." (i.e. Power BI) for specific guidance on Skills/Agents

Copilot for Power BI leverages existing functionalities (Analyze, Q&A, ..) to the maximum

Copilot in Fabric can use data in *session* (*query results, attached resources*)

Copilot in Fabric, Data Agents, AI Functions all adhere to the Responsible AI Standard



Capacity Consumption

Capacity Estimation

Operation in Metrics App	Description	Operation Unit of Measure	Consumption rate
Copilot in Fabric	The input prompt	Per 1,000 Tokens	100 CU seconds
Copilot in Fabric	The output completion	Per 1,000 Tokens	400 CU seconds

<https://learn.microsoft.com/en-us/fabric/fundamentals/copilot-fabric-consumption>

Don't focus too much on this ..

Capacity Estimation

"How can I estimate what Copilot will cost us?"

Mission impossible, unless you're running representative tests

Community Example of Estimator for *tokenization* ([link](#))

Fabric/Power BI Capacities all use CU (Capacity Units)

Azure OpenAI token usage (input & output) is converted to CU ([docs](#))

Pricing Example, explaining token usage ([link](#))

See also:

[Saying 'please' and 'thank you' to ChatGPT costs OpenAI millions in energy bills](#)

[What are tokens and how to count them](#)

Azure OpenAI models are constantly tuned, tweaked, and optimized

Balance of cost, accuracy, performance

<https://blog.crossjoin.co.uk/2024/03/17/how-much-does-copilot-cost-in-microsoft-fabric/>

https://databear.com/understanding_microsoft_fabric_and_copilot_costs/

Capacity Consumption

"How much is Copilot in Fabric actually costing us?"

In most cases, Copilot requests use > 0.1% of F64 capacity

Caching is used to minimize requests to Azure OpenAI, reducing CU consumption

Fabric Roadmap ([link](#)) has entries for:

[Capacity Metrics Chargeback Public Preview](#) (Q3 2025)

[Capacity Utilization Events Public Preview](#) (Q4 2025)

Capacity Consumption

Capacity Metrics App ([link](#)) is the reference

“Copilot in Fabric”, and “AI Query” (AI Functions) operations

Background Operations get smoothed across 24 hours

For Power BI, usage actually gets allocated to the report! 

Be mindful of virtual items “Power BI Session Service”, “Power BI Session Desktop”

“Power BI Session Service” is used with unsaved reports

“Power BI Session Desktop” is all usage from Desktop

Usage gets lumped together in sessions of 60 seconds

Background operations for timerange												Select optional column(s):			Multiple selection:     		
Workspace	Item kind	Item name	Operation	Start	End	Status	User	Duration (s)	Total CU (s)	Timepoint CU (s)	Throttling (s)	% of Base capacity	Billing type	Smooth			
Real-Time Intellige...	KustoQuer...	USGS_EH_queryset	Copilot In Fabric	5/20/2025 9:26...	5/20/2025 9:27....	Success	sujos...	240	270.2000	0.0938	0	0.00%	Billable	5/20/2025			
BDJ_CopilotTest	Report	BeerTasting_May2024	Copilot In Fabric	5/20/2025 9:49:...	5/20/2025 9:50:...	Success	benn...	120	592.7000	0.2058	0	0.01%	Billable	5/20/2025			
BDJ_CopilotTest	Report	Power BI Session Desktop	Copilot In Fabric	5/20/2025 10:09...	5/20/2025 10:10...	Success	benn...	60	527.5000	0.1832	0	0.01%	Billable	5/20/2025			
BDJ_CopilotTest	Report	Power BI Session Desktop	Copilot In Fabric	5/20/2025 10:12...	5/20/2025 10:13...	Success	benn...	120	1,060.9000	0.3684	0	0.02%	Billable	5/20/2025			
BDJ_CopilotTest	Report	Power BI Session Desktop	Copilot In Fabric	5/20/2025 10:13...	5/20/2025 10:14...	Success	benn...	60	702.3000	0.2439	0	0.01%	Billable	5/20/2025			
BDJ_CopilotTest	Report	Power BI Session Desktop	Copilot In Fabric	5/20/2025 10:14...	5/20/2025 10:15...	Success	benn...	120	337.1000	0.1170	0	0.01%	Billable	5/20/2025			
BDJ_CopilotTest	Report	Power BI Session Desktop	Copilot In Fabric	5/20/2025 10:15...	5/20/2025 10:16...	Success	benn...	120	635.1000	0.2205	0	0.01%	Billable	5/20/2025			
BDJ_CopilotTest	Report	Power BI Session Desktop	Copilot In Fabric	5/20/2025 10:19...	5/20/2025 10:20...	Success	benn...	60	67.6000	0.0235	0	0.00%	Billable	5/20/2025			
BDJ_CopilotTest	Report	Power BI Session Desktop	Copilot In Fabric	5/20/2025 10:20...	5/20/2025 10:21...	Success	benn...	300	395.4000	0.1373	0	0.01%	Billable	5/20/2025			
Total								2,940	17,055.30...	5.9220	0	0.31%					

Copilot and AI enabled across all paid SKUs

April 30th 2025



Copilot and AI
experiences on F2+

F64+ SKU requirement for
Copilot and AI capabilities
has been removed
(April 30th)

Customers on F2+ are
able to access Copilot
in Fabric, data agents,
AI functions

Enable everyone in your org to use Copilot and manage its cost

Enable everyone to use Copilot

- Consumption of Copilot goes to only the selected capacity

Select who can use a Copilot capacity

- Select the Users or groups who use a specific Copilot capacity
- A user can have only one Copilot capacity
 - Newest one matters..

Tenant Setting

- Restrict who can configure
- "Capacities can be delegated .."

Doesn't affect OpenAI region

- Region is still selected by hosting capacity region

Copilot capacity

Unapplied changes

Turn on this setting to designate this capacity as a Fabric Copilot capacity. Copilot capacities are special capacity types that allow your organization to consolidate users' Copilot usage and billing on a single capacity. Copilot capacities may not be available in all regions. [Learn more](#)

Select the users or user groups who can use this capacity for their Copilot usage and billing.

Apply to:

- The entire organization
 Specific users or groups

[Clear all](#)

 teamSite1   teamSite2 

[Apply](#)

[Discard](#)

Contributor permissions

Disabled for the entire organization

Admin permissions

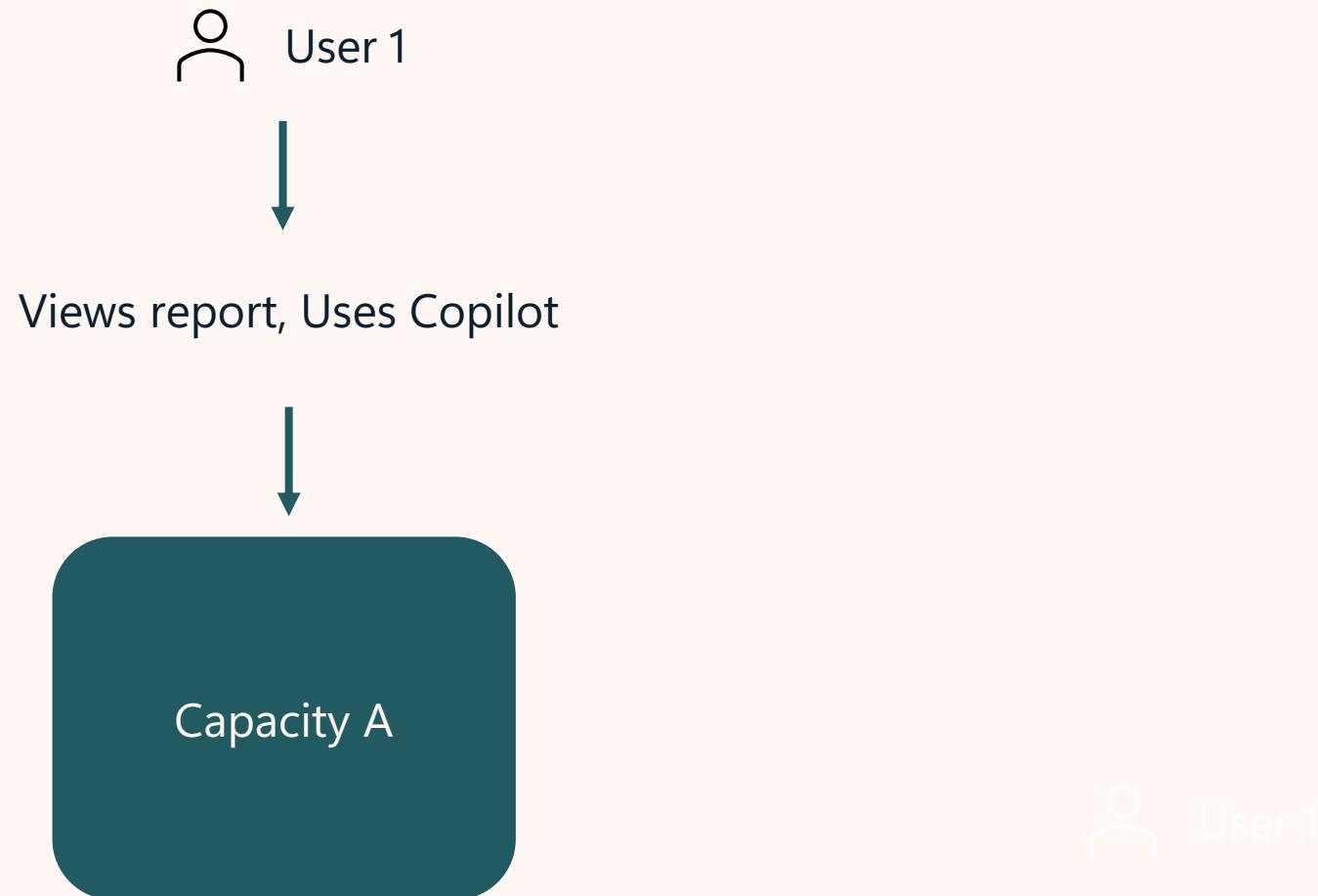
Power BI workloads

Preferred capacity for My workspace

Fabric Copilot capacity

Available since Nov 2024

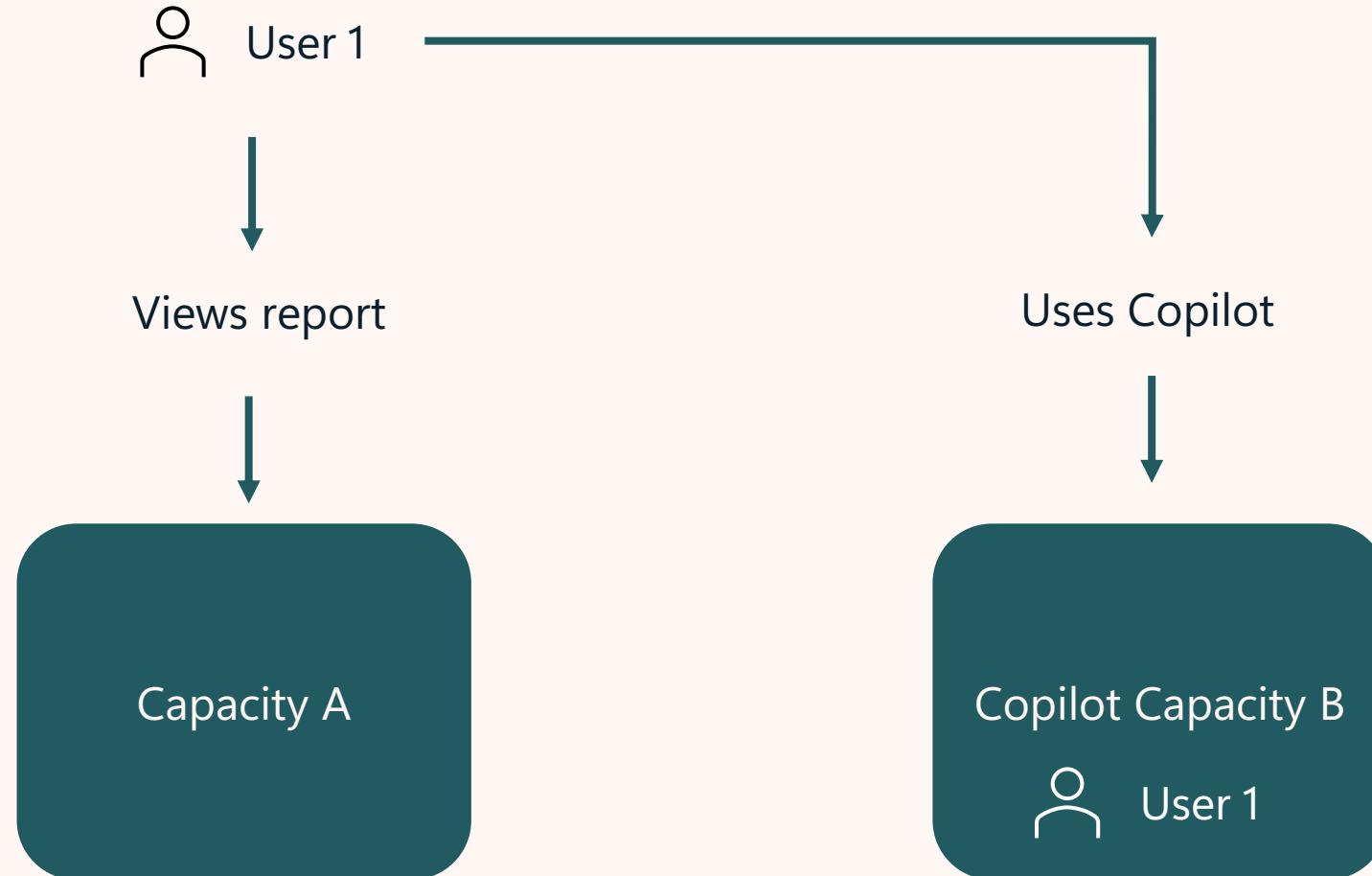
Normally, copilot usage applies to the capacity the content is in.



Fabric Copilot capacity

Available since Nov 2024

After a user is added to a copilot capacity, the user's copilot usage is consumed from their copilot capacity



Protecting your capacity from Copilot usage

Copilot in Fabric operations are background, so no immediate spikes

But when they do .. it has a 24h impact

Be mindful of who has access to Copilot skills and educate!

Copilot requests trigger other operations too!

Track usage for Power BI Desktop, ensuring usage doesn't interfere with key workloads

 Periodic check for "Power BI Session Desktop" item in Metrics App

Users can pick any workspace with permissions (Contributor), on Capacity that allows Copilot usage

If user is assigned a Copilot Capacity, all usage automatically goes there

Protecting your capacity from Copilot usage

Options to ensure the health of your capacity

Fabric Copilot Capacity enabled for user base (by region, department, ..)

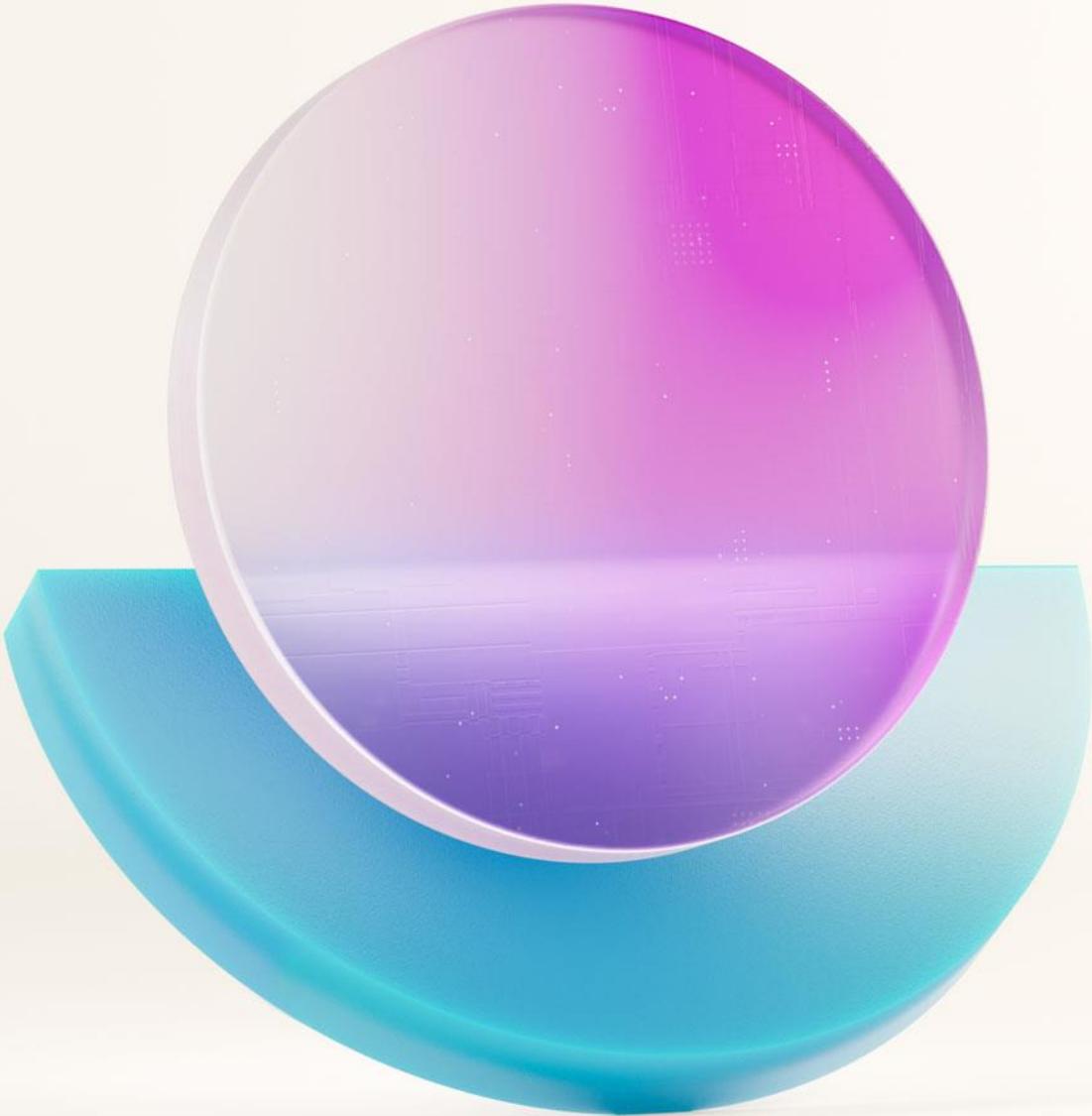
If possible, set up new Security Groups (avoid cross pollination)

When Capacity throttles/rejects, Copilot no longer works

But everything else does .. 

Leverage Surge Protection to provide a limit on the background rejection threshold

Microsoft Fabric
Community Conference



Audit Logs

Audit Logs

Whenever a user performs an action, an audit log entry is created
Can be viewed through:

Purview Audit ([docs](#))

Admin Monitoring Workspace, Feature Usage and Adoption report ([docs](#))

Power BI Activity Log ([docs](#))

We're interested in these events:

Interacted with Copilot (**CopilotInteraction**)

Legacy events

Requested OpenAI model in ML workload (RequestOpenAI)

Requested Copilot features in Fabric (RequestCopilot)

Does not provide the granularity of the specific Skill/Agent used

Viewing Prompts

"Can I see what my users are asking Copilot?"

Natively in Fabric, there is no option to review prompts

Purview DPSM (Data Posture Security Management) for AI does!

Announced in Public Preview at FabCon Vegas 2025

Requires separate licensing for Purview! ([docs](#))

Collection Policy "DSPM for AI - Capture interactions for Copilot experiences"



Home

DSPM for AI

Overview

Recommendations

Reports

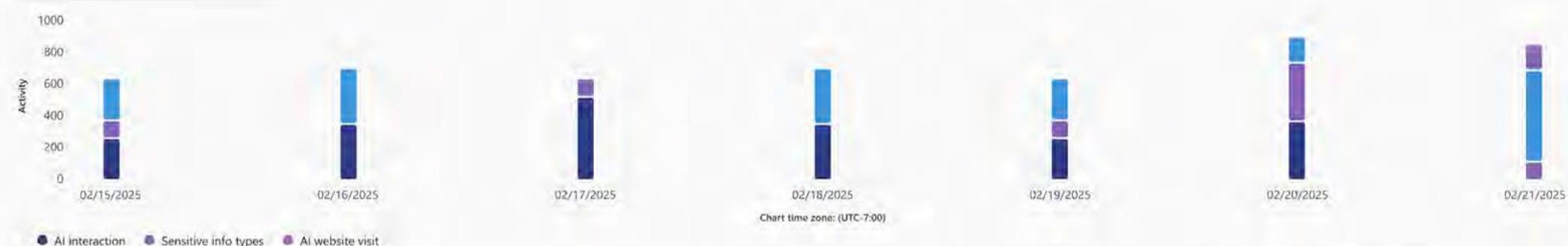
Data assessments PREVIEW

Policies

Activity explorer

Activity explorer

Review AI activity including AI interactions (prompts and responses), activity with sensitive info types, and more.

Activity: All values Timestamp: All values App: All values Workload: All values User: Edited value X Sensitive info type: All values X User risk level: All values X Files referenced: All values XSensitive files referenced: All values X

21 items

Filter v

Filter by keyword

Activity type	User	Timestamp	AI app category	App	App accessed in	Sensitive info types	Resources accessed	Sensitive files referenced
AI interaction	Mona Kane	Feb 16, 2025 3:24 PM	Microsoft Copilot exper...	Copilot for PowerBI (Co...	PowerBI	No	No	No
AI interaction	Mona Kane	Feb 16, 2025 3:25 PM	Microsoft Copilot exper...	Copilot for PowerBI (Co...	PowerBI	Yes	No	No
Sensitive info types	Mona Kane	Feb 16, 2025 4:35 PM	Microsoft Copilot experien...	Copilot for PowerBI (Co...	PowerBI			
AI website visit	Dean Renzo	Feb 16, 2025 5:26 PM	Microsoft Copilot experien...	Microsoft 365 Copilot	Word			
AI interaction	Dean Renzo	Feb 16, 2025 5:34 PM	Microsoft Copilot exper...	Microsoft 365 Copilot	Word			
AI interaction	Edison Gil	Feb 16, 2025 5:35 PM	Microsoft Copilot exper...	Security Copilot	Purview			
AI interaction	Posie Par	Feb 16, 2025 5:36 PM	Microsoft Copilot exper...	Microsoft 365 Copilot	Word			
AI interaction	Edison Gil	Feb 16, 2025 5:38 PM	Microsoft Copilot exper...	Security Copilot	Purview			
AI interaction	Dean Renzo	Feb 16, 2025 6:28 PM	Microsoft Copilot experien...	Security Copilot	Purview			
AI interaction	Edison Gil	Feb 16, 2025 6:28 PM	Microsoft Copilot experien...	Copilot for PowerBI (Co...	PowerBI			



Home

DSPM for AI

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AI interaction	Dean Renzo	Feb 16, 2025 6:28 PM	Microsoft Copilot experien...	Security Copilot	Purview
AI interaction	Edison Gil	Feb 16, 2025 6:28 PM	Microsoft Copilot experien...	Copilot for PowerBI (Co...	PowerBI

AI interaction

Activity details

Activity	Timestamp
AI interaction	Feb 16, 2025 3:24 PM
Record Id	Client IP
aa1a22eb-ed9d-486595db-c9e8140d86e4	89.109.147.78

User details

Mona Kane Mona.Kane@contoso.com	User risk <small> ⓘ</small> ■■■ High
---	---

View more user details in Insider Risk Management ↗

App details

AI app category	App	App accessed in
Microsoft Copilot experiences	Copilot for PowerBI (Copilot in Fabric)	PowerBI

Interaction details

Prompt

Summarize the hiring trend and find the which group has the most bad hires and their demographics

 ⓘ Sensitive info types detected View related activity



Home



DSMP for AI



Overview



Recommendations



Reports



Data assessments PREVIEW



Policies



Activity explorer

Activity explorer

Review AI activity including AI interactions (prompts and responses), activity with sensitive info types, and more.

Activity: All values
Timestamp: All values
App: All values
Workload: All values
User: Edited value

Sensitive info type: All values

Sensitive files referenced: All values



Activity type	User	Timestamp	AI app category	App	App accessed in
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AI website visit	Dean Renzo	Feb 16, 2025 5:26 PM	Microsoft Copilot experien...	Microsoft 365 Copilot	Word
AI interaction	Dean Renzo	Feb 16, 2025 5:34 PM	Microsoft Copilot experien...	Microsoft 365 Copilot	Word
AI interaction	Edison Gil	Feb 16, 2025 5:35 PM	Microsoft Copilot experien...	Security Copilot	Purview
AI interaction	Posie Par	Feb 16, 2025 5:36 PM	Microsoft Copilot experien...	Microsoft 365 Copilot	Word
AI interaction	Edison Gil	Feb 16, 2025 5:38 PM	Microsoft Copilot experien...	Security Copilot	Purview
AI interaction	Dean Renzo	Feb 16, 2025 6:28 PM	Microsoft Copilot experien...	Security Copilot	Purview
AI interaction	Edison Gil	Feb 16, 2025 6:28 PM	Microsoft Copilot experien...	Copilot for PowerBI (Co...	PowerBI

AI interaction

Activity details

Activity	Timestamp
AI interaction	Feb 16, 2025 3:25 PM
Record Id	aa1a22eb-ed9d-486595db-c9e8140d86e4
Client IP	89.109.147.78

User details

MK	Mona Kane Mona.Kane@contoso.com	User risk ⓘ ■■■ High
----	------------------------------------	---

[View more user details in Insider Risk Management](#)

App details

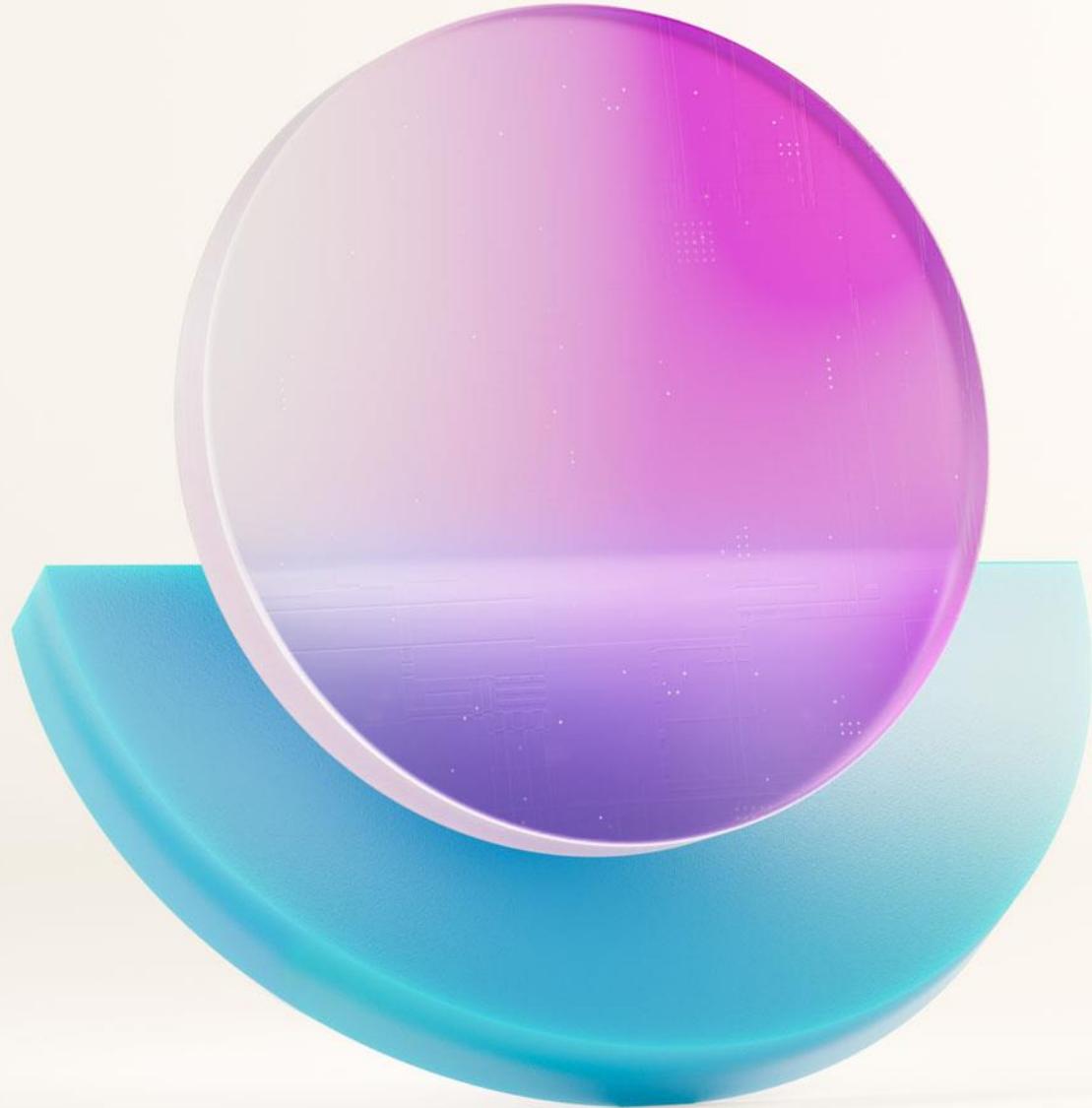
AI app category
Microsoft Copilot experiences

App	App accessed in
Copilot for PowerBI (Copilot in Fabric)	PowerBI

Interaction details

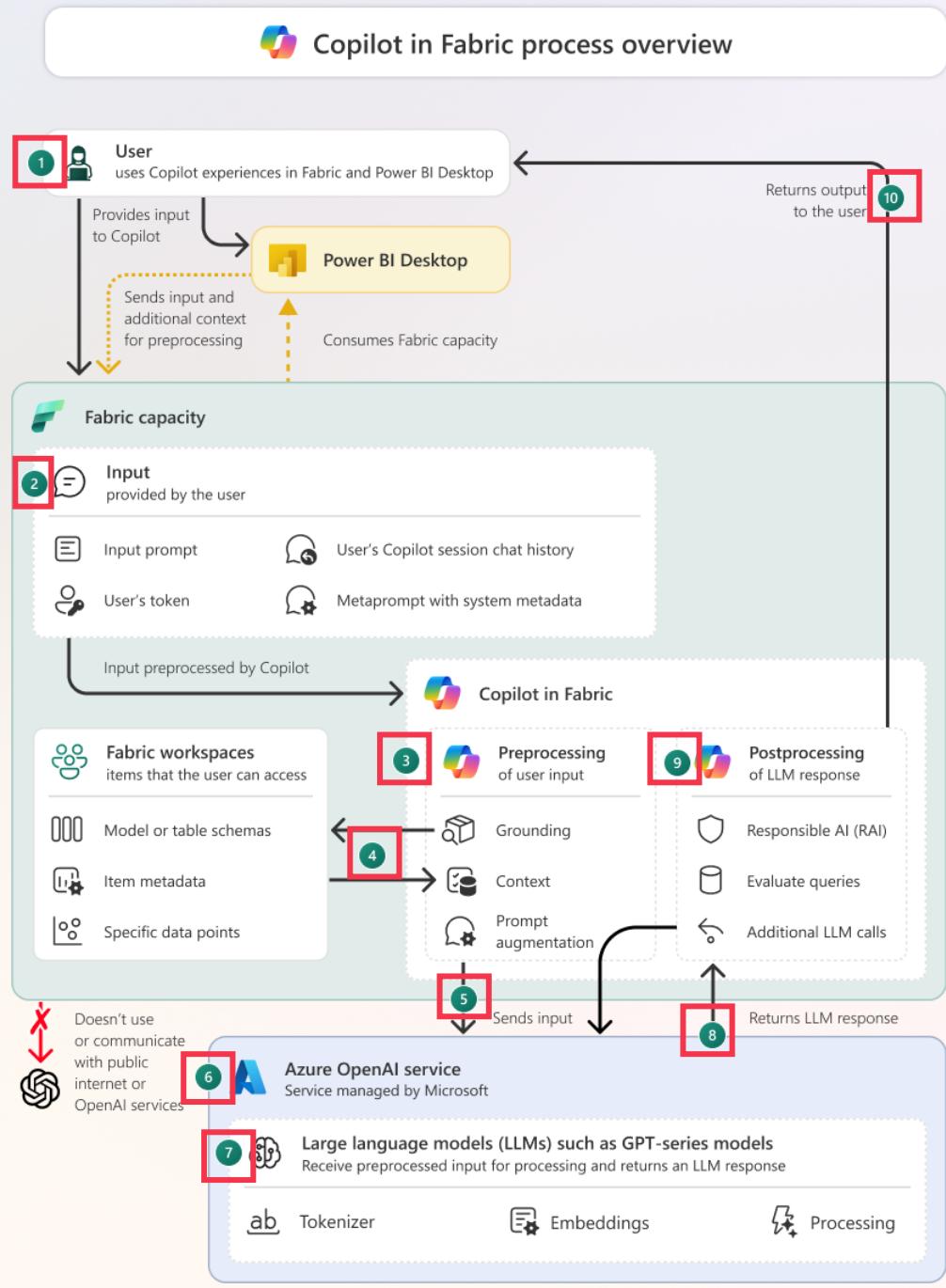
Response

Hiring Trends 1: Over 2014, part-time hiring significantly outpaced full-time hiring, with 17,715 part-time hires compared to 992 full-time hires^{[^](#cite://hts1)}. Monthly hiring peaked for part-time roles in September (2.13K hires)^{[^](#cite://er11)}, while full-time hiring was highest in May (139 hires)^{[^](#cite://er11)}. 2. Demographically, most new hires were under the age of 30, comprising 13.19K total hires (6.36K males, 6.83K females)^{[^](#cite://er41)}. Female hires slightly exceeded male hires^{[^](#cite://er41)}. ### Regional and Ethnic Analysis 1. Group A led new hires across all regions, totaling 12.37K hires^{[^](#cite://er61)}. Regions such as the Northwest and Midwest had particularly high Group A hiring, totaling 2.25K and 2.07K hires, respectively^{[^](#cite://er61)}. 2. Recruiting efforts in the East focused less on Group A demographic^{[^](#cite://er61)}. ### Bad Hiring Trends 1. Group A also accounted for the most bad hires, with 3.53K incidences^{[^](#cite://er31)}. Regions contributing most notably included the Northwest (716 bad hires) and North (632 bad hires)^{[^](#cite://er31)}. 2. Younger demographics (<30) experienced the highest percentage of bad hires relative to active users at 20.90%^{[^](#cite://er51)}.



Copilot for Power BI

How it works



Step 1: User provides input to Copilot (prompt)

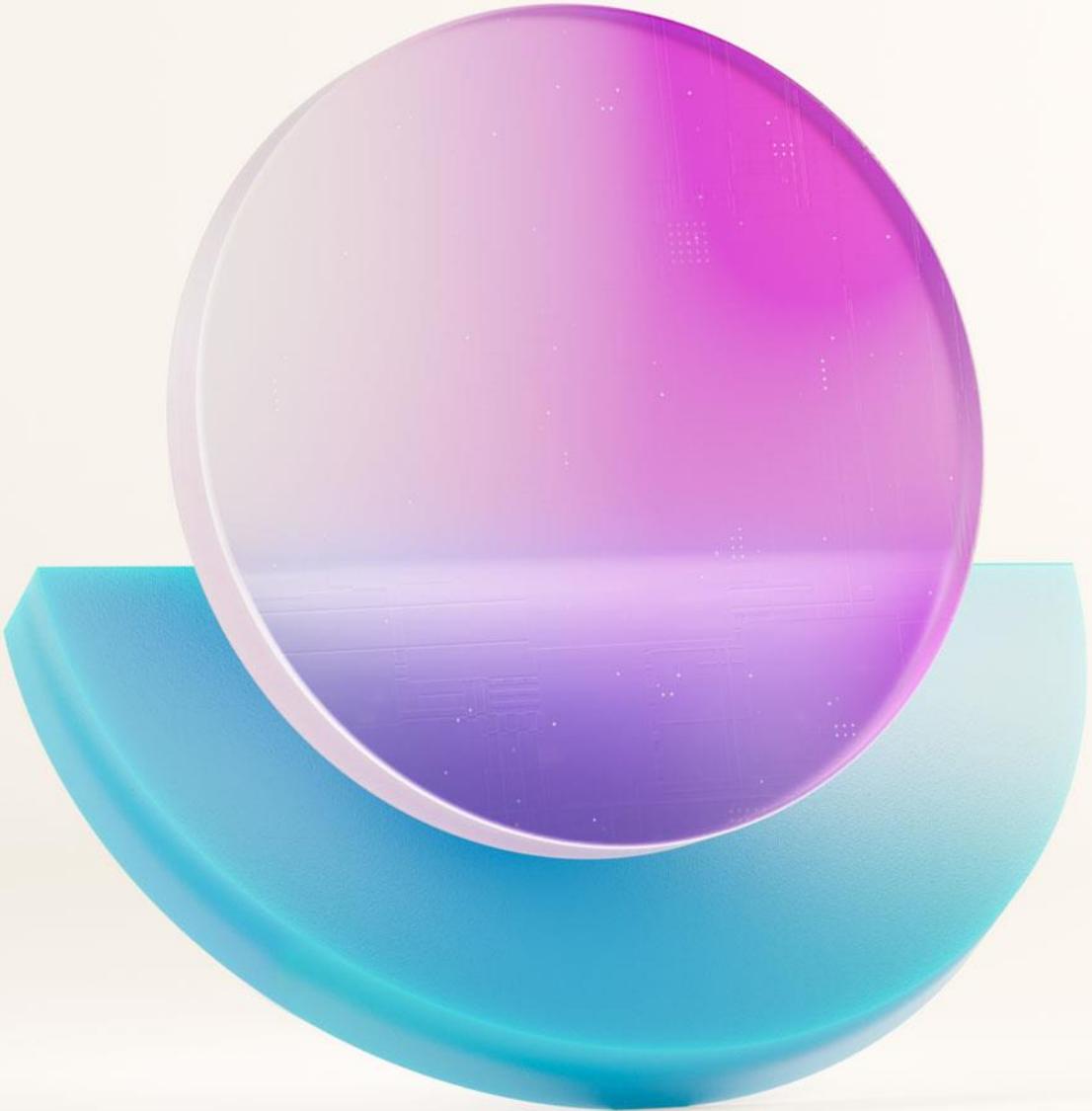
Step 2: Copilot preprocesses the input (grounding)

Step 3: Azure OpenAI processes the prompt and generates an output

Step 4: Copilot performs postprocessing on the output

Step 5: Copilot returns the output to the user

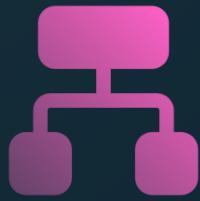
Livestream – How it works
Docs – How it works



BONUS: User Education

Prepping Copilot to work best for your data

To optimize "Chat with your Data" quality output, authors and consumers need the ability to **ground, curate, and configure** their artifacts to work with Copilot.



Select a model schema for Copilot

Schema selection



Ground responses with verified answers

Verified answers



Teach Copilot your organizational terms

Synonyms



Provide additional context about your data

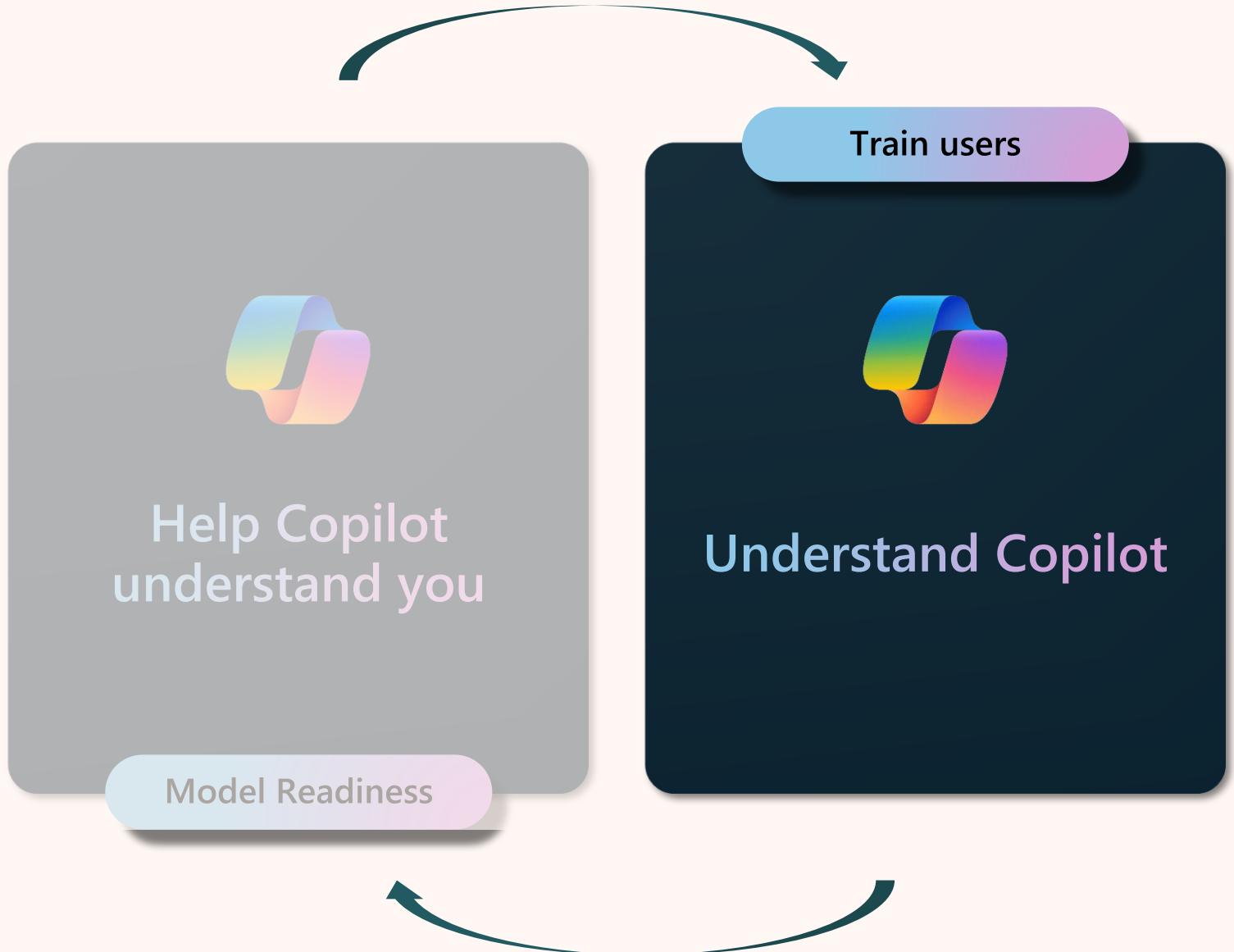
Custom instructions

Optimize for Copilot

Accelerate your
time to insights



What you can
do today



Understand how to use Copilot

Enable Q&A

Allows Copilot to answer questions over your data

Understand limitations

Report > Model
Supported v. unsupported query types

Perfecting questions

Ideal sentence structure

Understand how to use Copilot

Enable Q&A

Allows Copilot to answer questions over your data

Q&A

ⓘ If Q&A is turned on, we'll create an index of your data in the service.[Learn more](#)

Turn on Q&A to ask natural language questions about your data

Share your synonyms with everyone in your org

Apply

Discard



Understand how to use Copilot

Enable Q&A

Table and column
level control

The screenshot shows the Microsoft Copilot Q&A setup interface. On the left, there's a sidebar with options: Q&A setup (selected), Getting started, Synonyms (highlighted in blue), Relationships, Teach Q&A, Review questions, and Suggest questions. The main area is titled "Synonyms" with a sub-section "Expenditure Statistics". It shows a list of approved synonyms and suggestions for tables and fields. For "Expenditure Statistics", approved synonyms include "expenditure statistic" and "statistic". Suggestions include "spending data", "financial analysis", "expense statistic", "cost analysis", "spending analysis", and "13". For "Arrivals per month", approved synonyms include "arrivals per month" and "arrivals". Suggestions include "monthly visitor arrivals", "tourist influx per month", "traveler arrivals per month", "visitor arrivals per month", and "incoming tourists each month" with a count of "+11". Each suggestion has a plus sign to add it to the list. A note at the bottom says "This feature is in preview. [Learn more](#)".



Understand how to use Copilot

Report visuals are prioritized over the model information

Copilot limitations

Report response

which ad type has most leads?

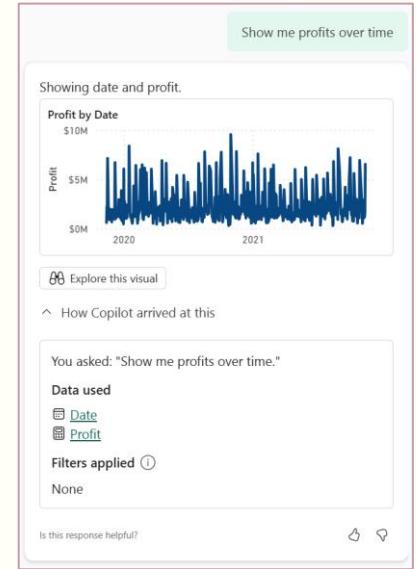
The data shows the number of leads generated by each ad type:

- **Site:** 677.44K leads [1](#)
- **Blogs:** 666.11K leads [1](#)
- **Magazine:** 657.55K leads [1](#)
- **TV:** 599.57K leads [1](#)

Therefore, the ad type that has the most leads is **Site** with 677.44K leads.

Is this response helpful?  

Model response



Understand how to use Copilot

Copilot limitations



Columns and fields in the report or data model



Explanations, summaries, or “show me” questions

“What were the top 5 selling products in North America last month?”

where product, region, and date are already columns in the data, and Copilot helps with top N filtering to produce the visual.

“Tell me the average price of gasoline per gallon over the last 30 days.”

where price per gallon is a field already contained in the model, and Copilot helps by taking the average and filtering by relative date to produce the visual.



Understand how to use Copilot

Copilot limitations

x

Why questions

x

Diagnostic analysis like
root cause or
forecasting

**"How many books do you
think we will sell next year?"**

This question asks for forecasting,
which isn't currently supported

**"Why do our sales go down
every July?"**

This question involves generating
deeper insights beyond the provided
data.



Understand how to use Copilot

Perfecting questions

Ideal sentence structure

1. preferred sort order
2. aggregation on value field by dimension field
3. legend
4. filters
5. visual type

Average ticket sales by movie genre

... grouped by region
... released in 2024

Top 5 movie titles by total ticket sales

... as a column chart





Grounding data for Copilot



Coming Soon: Configuring and grounding data for Power BI Copilot

Verified Answers

Ensure **quality** and **consistency** of responses for the most critical business topics.

Schema Selection

Limit the scope of data that Copilot can answer questions about

Custom Instructions

Provide business **context** and help Copilot guide how to talk about your data



Power BI Copilot grounding: Verified Answers

Verified Answers

Ensure **quality** and **consistency** of responses for the most critical business topics.

The screenshot shows the Microsoft Extended Power BI service interface. The main area displays a report titled "Traffic Source Analysis". The report contains three visualizations:

- A treemap visualization showing the distribution of traffic sources. The largest segment is Direct at 233.6M, followed by Bing at 38.9M, AdRoll at 22.6M, LinkedIn at 4.1M, Referral at 2.6M, and Search Engine at 1.1%.
- A bar chart titled "Total Revenue by Traffic Source" showing revenue in millions of dollars. The highest revenue is from the Search Engine at \$1,114.5M, followed by Google at \$640.0M, Direct at \$556.7M, Referral at \$194.7M, LinkedIn at \$193.1M, Bing at \$127.7M, and AdRoll at \$115.5M.
- A line chart titled "Impression by Quarter" showing impressions in millions. The data points are: Qtr 1 (58.7M), Qtr 2 (54.3M), Qtr 3 (62.1M), and Qtr 4 (58.5M).

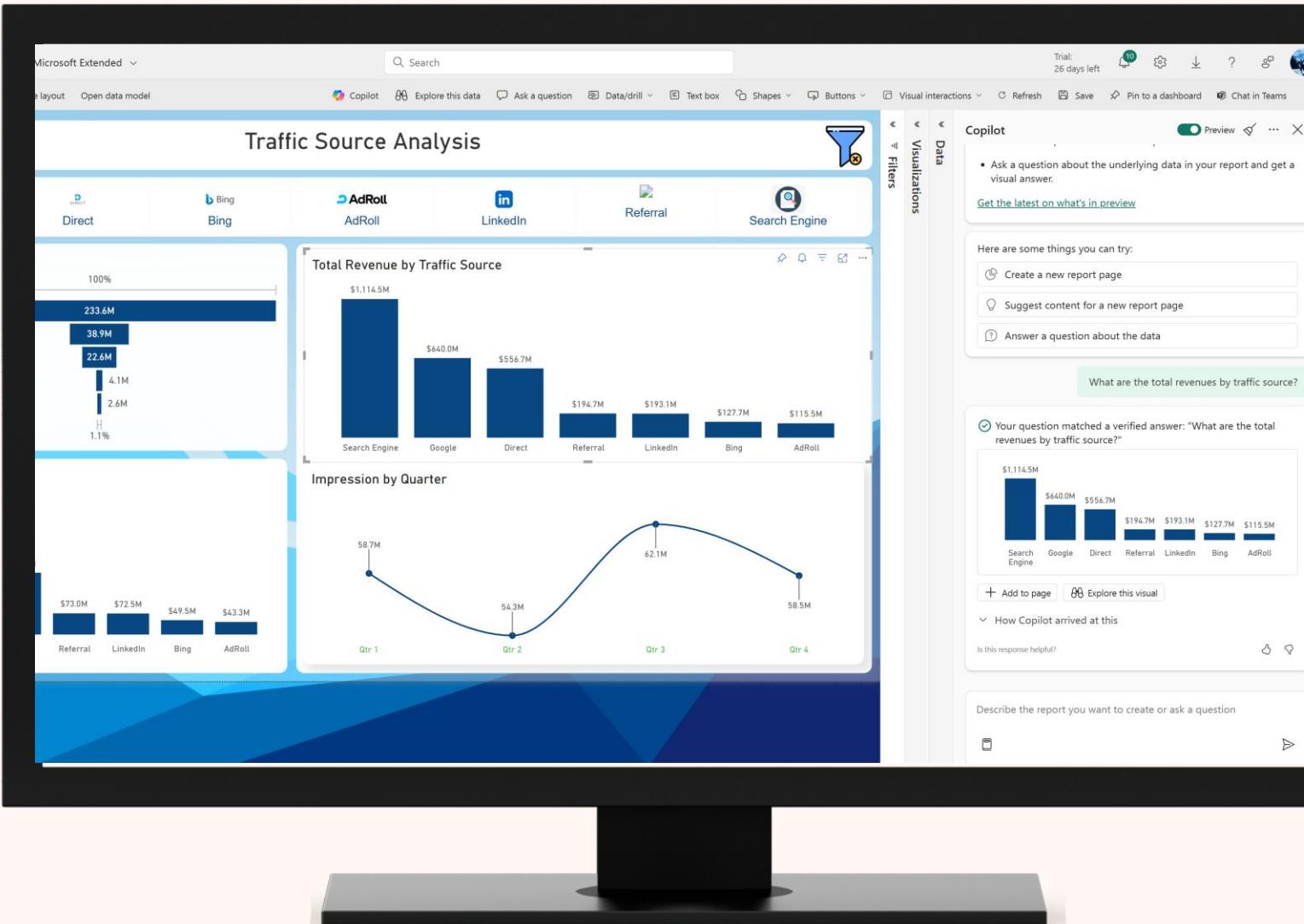
The Copilot sidebar on the right is open, showing a preview of the report. It includes a section for "Copilot" with instructions to ask a question about the underlying data, and a "Filters" section. Below that, there are buttons for "Create a new report page", "Suggest content for a new report page", and "Answer a question about the data". A message indicates that the user's question was matched with a verified answer: "Your question matched a verified answer: 'What are the total revenues by traffic source?'". The sidebar also includes sections for "How Copilot arrived at this" and "Is this response helpful?", and a text input field for "Describe the report you want to create or ask a question".

Benefits

Verified Answers

Benefits

- Accuracy + consistency
- Capture business context
- Help Copilot get smarter over time
- Reuse accurate responses across models



Power BI Copilot Grounding: Schema Selection

Schema Selection

Schema selection allows users to prioritize specific data schemas for more relevant and focused insights.

The screenshot shows the 'Prep data for AI' interface. On the left, there's a sidebar with 'Get started', 'Add AI instructions', and a selected 'Simplify the data schema' option. Below that is a 'Verified Answers' section. The main area is titled 'Simplify the data schema (preview)' with a subtitle: 'Improve response accuracy by deselecting fields Copilot doesn't need to analyze. This creates a dedicated AI data schema saved with your semantic model.' It lists several dimensions with checkboxes:

- Ad Dimension
 - Ad
 - Ad_type_ID
 - a
- Model Dimension
 - Brand
 - Model_ID
- Campaign Dimension
 - Campaign
 - Campaign_ID
- Customer Type
 - Customer_Type
 - Cust_Type_ID
- Traffic Source Dimension
 - Clicks | Spendings | Revenue | Profit
 - Parameter
 - Parameter Fields
 - Σ Parameter Order
 - Impression | Conversion | Leads
- Measure

Benefits

Schema Selection

Benefits

- Column and **measure** level control
- Enhance relevance of specific measures
- Ensure Copilot model responses are friendly and pointing to the right data

The screenshot shows a dark-themed user interface titled "Prep data for AI". On the left, there's a sidebar with "Get started" and "Add AI instructions" buttons, and a "Simplify the data schema" section which is currently active, indicated by a green bar. Below that is a "Verified Answers" section. The main content area is titled "Simplify the data schema (preview)". It explains that this feature improves response accuracy by deselecting fields Copilot doesn't need to analyze, creating a dedicated AI data schema saved with your semantic model. The schema is organized into several dimensions:

- Ad Dimension: Ad, Ad_type_ID (unchecked), a (checked)
- Model Dimension: Brand (checked), Model_ID (unchecked)
- Campaign Dimension: Campaign (checked), Campaign_ID (unchecked)
- Customer Type: Customer_Type (checked), Cust_Type_ID (checked)
- Traffic Source Dimension: Clicks | Spendings | Revenue | Profit (unchecked), Parameter (checked), Parameter Fields (unchecked), Parameter Order (unchecked)
- Measure: Impression | Conversion | Leads (unchecked)

Power BI Copilot Grounding: Custom Instructions

Custom instructions

Customize Copilot with instructions for how to best respond to your data.

The screenshot shows the Power BI Copilot interface with a dark theme. At the top left, there's a button labeled "Custom instructions". The main area has a title "Prep data for AI" with a checkbox icon. Below it are several options: "Get started", "Add AI instructions" (which is highlighted with a blue bar), "Simplify the data schema", and "Verified Answers". To the right, under "Add AI instructions (preview)", there's a text input field containing the instruction: "When a user asks about revenue, use the measure: AVG Revenue Per Customer from the table called Measure." Below the input field, it says "105/5000 characters". At the bottom of the interface, there's a black footer bar.

Prep data for AI

Get started

Add AI instructions

Simplify the data schema

Verified Answers

Add AI instructions (preview)

Provide context on important data fields, business goals, and industry terms to improve Copilot insights about this semantic model. [View some examples](#)

When a user asks about revenue, use the measure: AVG Revenue Per Customer from the table called Measure.

105/5000 characters

Benefits

Custom Instructions

Benefits

- Personalized Experience: Tailor Copilot's responses with instructions for how to best respond to your data.
- Enhanced Efficiency: Streamline workflows by providing specific instructions that align with user goals.
- Improved Accuracy: Ensure Copilot understands and executes tasks correctly by offering clear guidance.

Prep data for AI

Get started

Add AI instructions

Simplify the data schema

Verified Answers

Add AI instructions (preview)

Provide context on important data fields, business goals, and industry terms to improve Copilot insights about this semantic model. [View some examples](#)

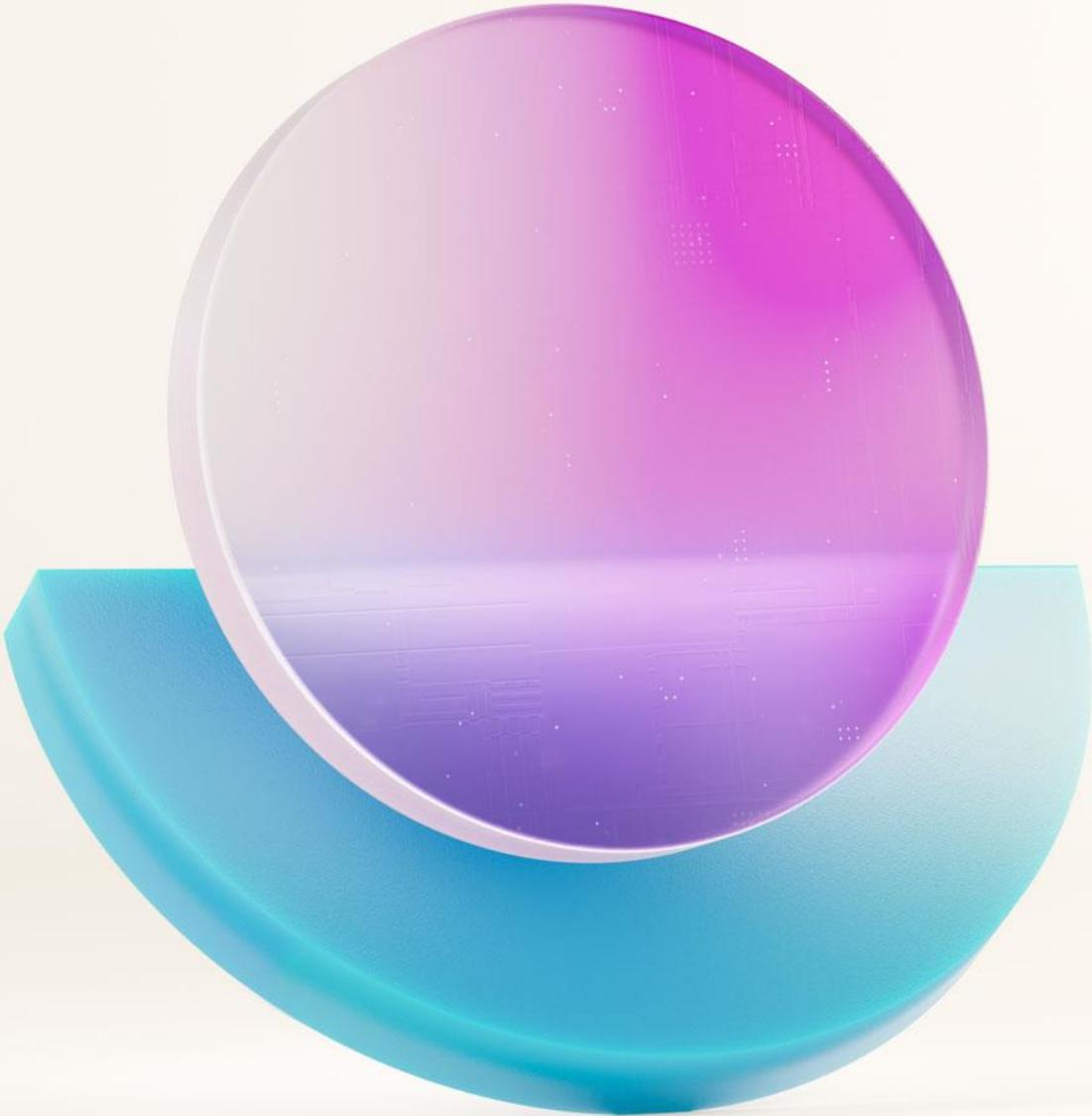
When a user asks about revenue, use the measure: AVG Revenue Per Customer from the table called Measure.

105/5000 characters

Which skills are affected by “Prep Data for AI”

Capability	AI data schema	Verified answers	AI instructions	Descriptions
Get a summary of my report	No	No	Yes	No
Ask a question about the visuals on my report	No	Yes	Yes	No
Ask a question about my semantic model	Yes	Yes	Yes	No
Create a report page	No	No	Yes	No
Search	No	Yes	No	Yes
DAX query	No	No	Yes	Yes

⁶² <https://learn.microsoft.com/en-us/power-bi/create-reports/copilot-prepare-data-ai-faq#which-copilot-capabilities-are-affected-by-preparing-my-data-for-copilot->



Wrapping up

Wrapping up

Copilot is here, we might as well embrace it

Invest time in setting up tenant settings, delegated capacity settings

Be mindful of how Control Plane and Data Plane affect usage

Copilot Capacities can really help keep mission critical workloads intact

Invest time in educating users to write prompts, and help “Prep Data for AI”

Happy Fabricating!

FGA (Frequently Given Answers) to the Admins

Chat with your Data has rolled out, now stop asking 

We're working hard to get GPUs for additional regions ..

No timeline to share on Copilot in Power BI Embedded

English is the only *official* supported language for Copilot in Fabric

Hold out a little longer for editing Linguistic Schema's for Direct Lake models

No, we can't restrict Copilot to specific workspaces, items, labels, ..

 [Power BI Blog – Chat with your data](#)

Recommended Reading/Viewing

- [Data Goblin – Copilot in Power BI Unplugged](#)
- [Havens Consulting – Demystifying Copilot in Microsoft Fabric](#)
- [Chris Webb - Power BI Copilot: Where Are The CUs Consumed](#)
- [Data Goblin – Myths, Magic, and Copilot for Power BI](#)
- [Chris Webb - Get Better Results From Power BI Copilot With Linguistic Modelling](#)
- [Chris Webb - Tuning Power BI Copilot With Row Labels And Key Columns](#)



Slides can be found at :

https://github.com/BenniDeJagere/Presentations/{Year}/{Date}_{Event}





Thank you

