

Changing the way how we interact with data

In the Era of Al

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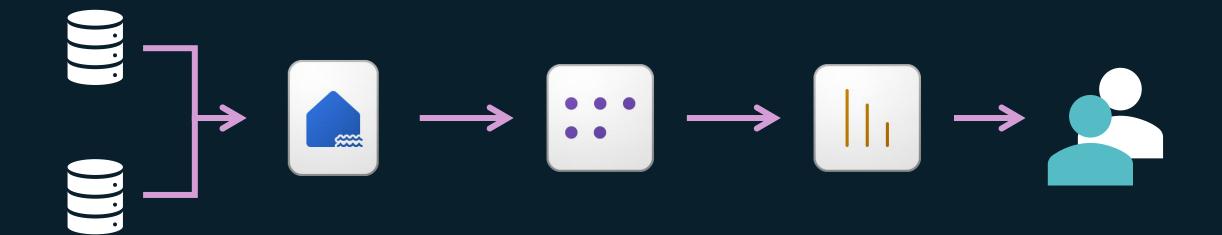
Copilot experiences

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Understanding data interactions

Typical analytics solution today Simplified overview



Why should I open a report to get to my insights?



What if you could chat with your data?

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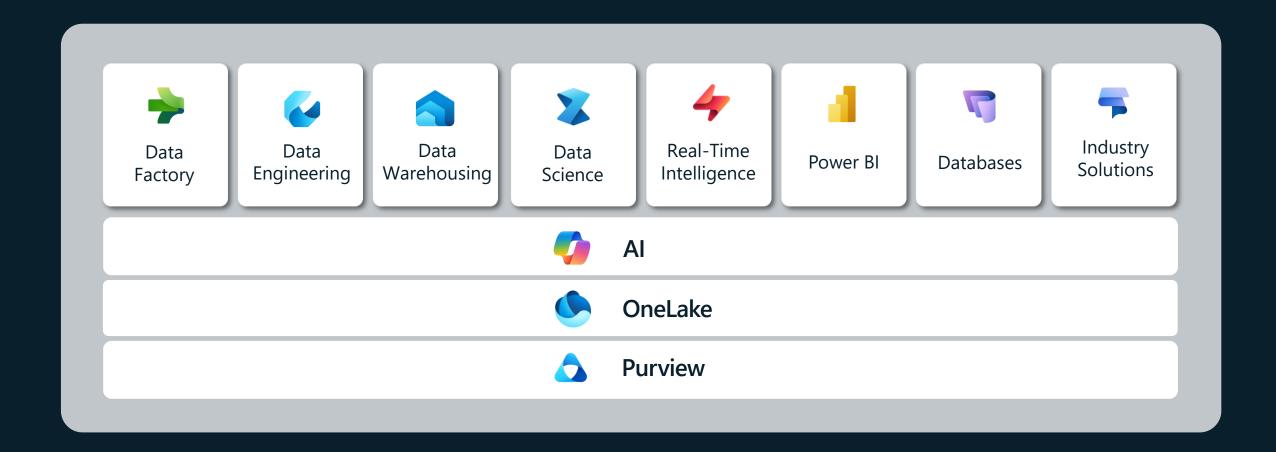
Setting a proper data foundation

Personas	Customer	Financial Advisors	Portfolio Managers	•••
Modern Technology	Co-pilot / Chatbot		Predictions	
Data Management Platform	Fabric			
Platforms	Digital Experience	CRM & ERP	Document Management	•••

Set a proper foundation! Cause nobody wants to build a house on quicksand, right?



Microsoft Fabric as data foundation



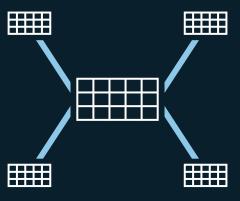
A decent data solution is more important than ever!



Structured platform striving for a single source of truth



Transformation done upstream



Semantics and business logic added

Without data... there is no Al!

Exploring solution areas What are the alternatives to copilot?

What can you conclude from the orders placed versus the orders shipped?





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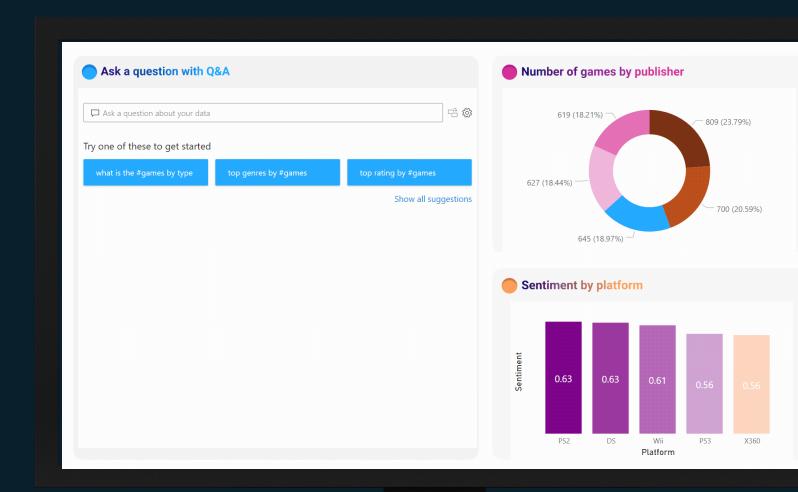
Power BI Q&A

Q&A Visual

Exact string matching between prompt and Semantic Model

Based on:

- Tables
- Columns
- Measures
- ... other model objects



Q&A training

Overall setup

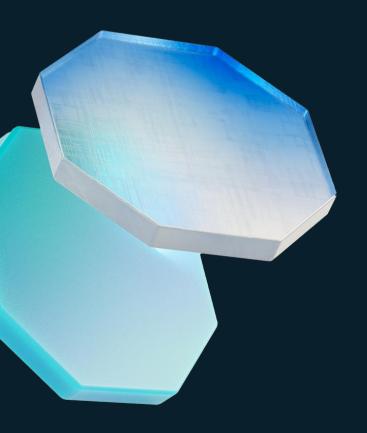
- Training by looking at previous questions & answers from users
- Fields can be excluded from potential answers

Can be enriched by

- (Field) Synonyms & descriptions
- Linguistic schema

```
JSON

product_has_category:
   Binding: {Table: Products}
   Phrasings:
   - Attribute: {Subject: product, Object: product.category}
```



Demo Q&A visual

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Copilot experiences



Should we hammer it with Copilot?

Image from: https://x.com/Vaccinologist/status/1622620533706588161

Copilot in Fabric Which copilot experiences do we have?

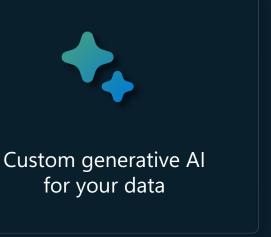


Copilot accelerated experiences

Help me build stuff

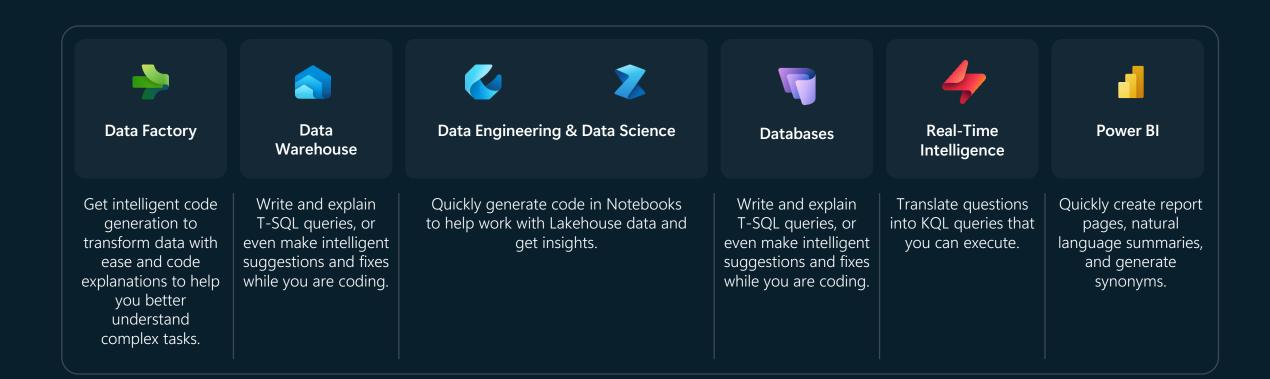


Summarize and find insights



Custom configured and build

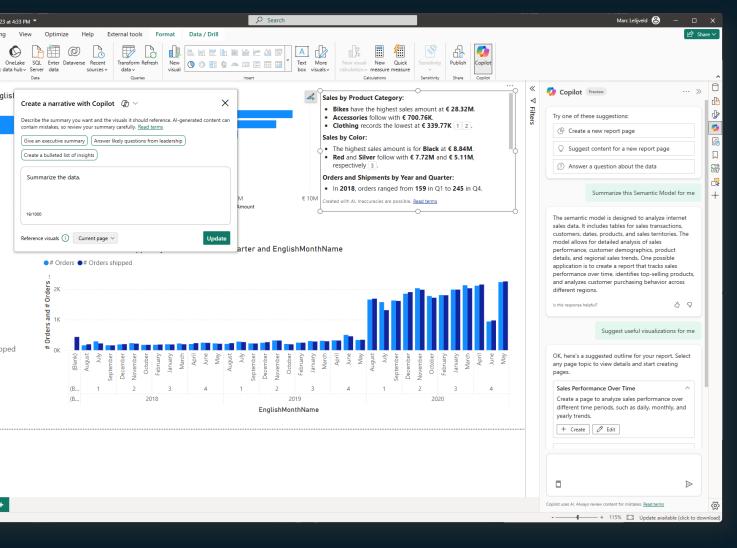
Copilot in Fabric Focused on the different workloads



Who copilot is for

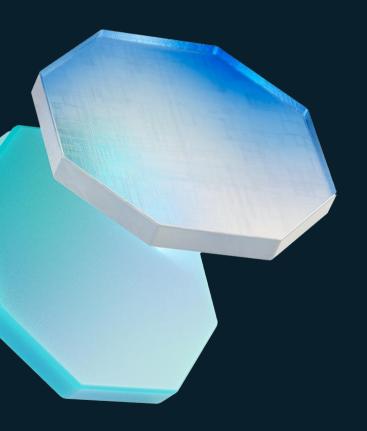


Copilot – Power BI use cases



How can copilot help you

- Summarize semantic model
- Suggest report content
- Create report page
- Create summary visual (Smart narrative)
- · Add synonyms to model
- Add descriptions to measures
- Write DAX (& DQV)
- ... and more!



Demo Copilot consumer experience

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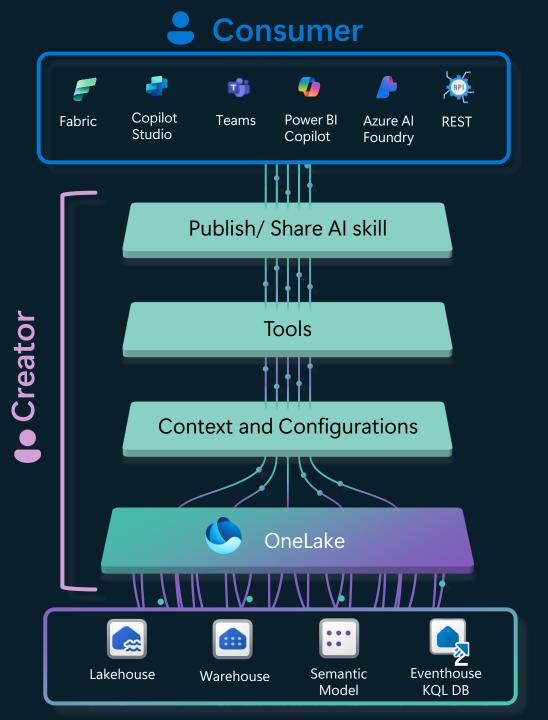


Data Agents

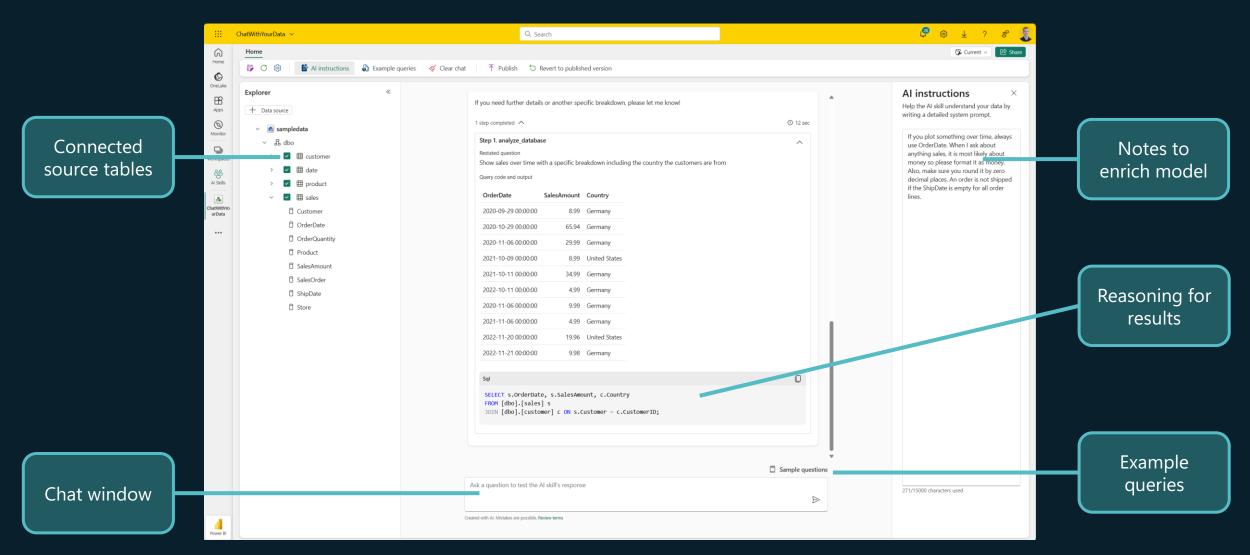
Data Agents Previously known as AI Skills

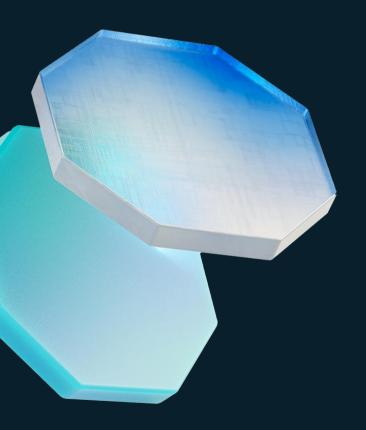
Introducing Data Agents

- The conversational Data Agent allows users to interact with data naturally, enhancing accessibility and usability.
- Improved chat canvas for creators with new debugging capabilities, making it easier to understand and refine responses.
- Seamlessly reason over multiple data sources, including Lakehouses, warehouses, semantic models and Eventhouse KQL databases.
- Your Data Agent can be consumed inside and outside of Fabric. Stay tuned for upcoming integrations with Copilot Studio, Teams, Azure Al Foundry and your own custom applications.



Understanding the Data Agent creator experience

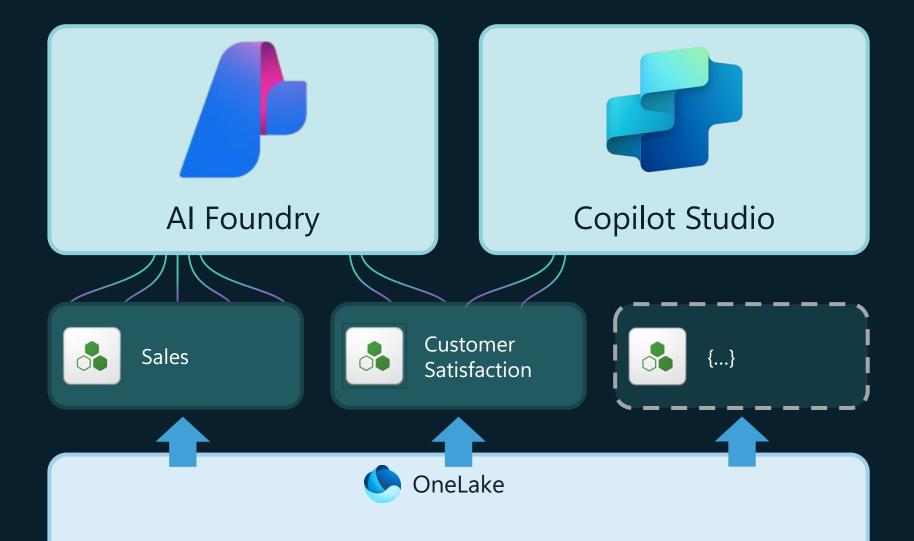




Demo Data Agents

Agent architecture One to rule them all?

No!



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Meet users where they are

Tools we use day in, day out



Meet users where they are



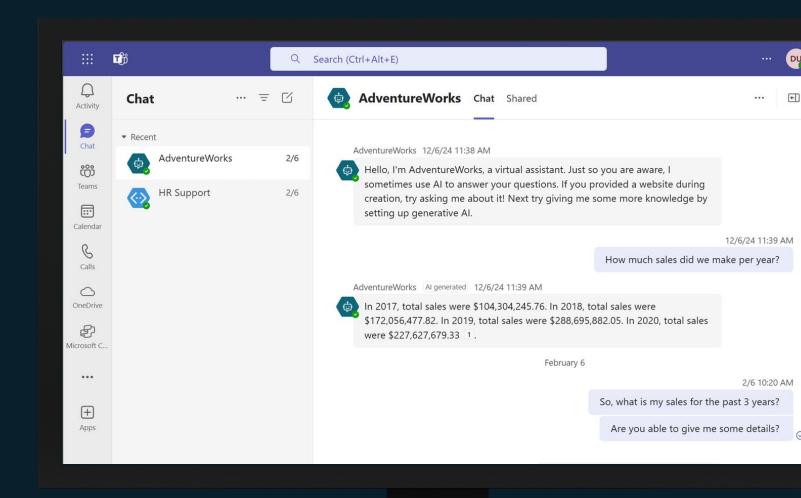
Using Copilot Studio (Power Platform) to build custom agents to do anything



Use Fabric Data Agents as knowledge base



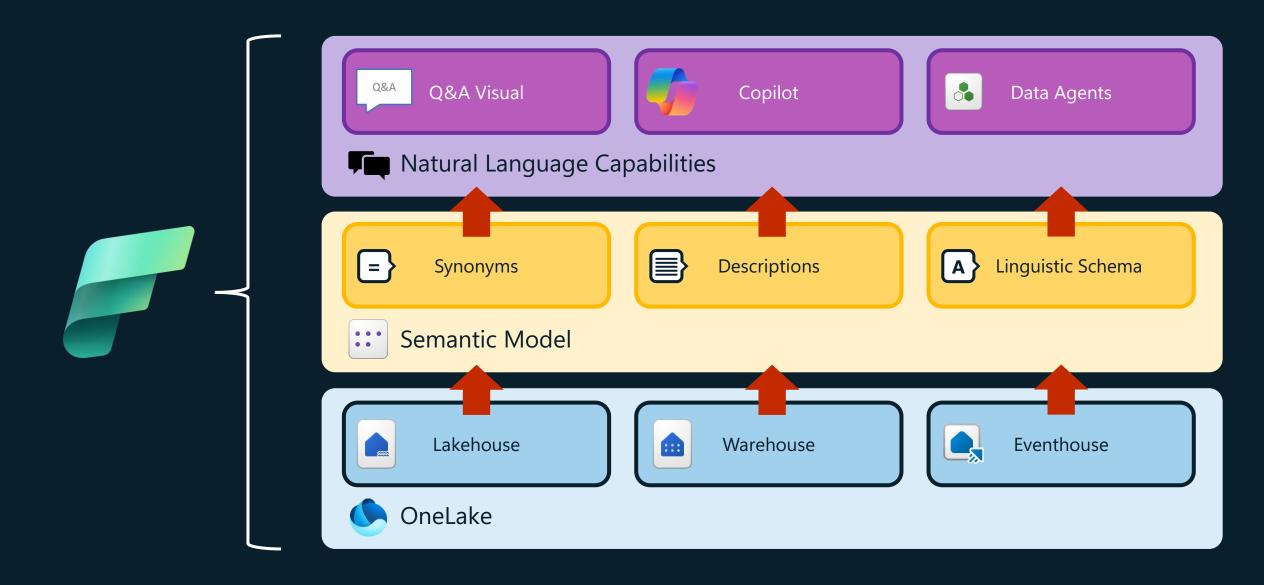
Integrate the agent into Microsoft Teams



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Wrap up & take-aways



Key take-aways

Building a chat interfaces on top of your data

- A proper data foundation is key!
- Improve answer quality by using Semantic Models including synonyms, descriptions and the linguistic schema

Data Agents (AI skills) in Fabric

- ...allows for customization and training, compared to out of the box copilot
- …only work on structured data
- ...generate NL2SQL, NL2KQL and NL2DAX
- ...loses accuracy if you use large schemas with dozens of tables

Copilot Studio

- ...brings the experience to the users to meet them where they are
- ...has its own licensing structure

Most up to date list of limitations: https://learn.microsoft.com/en-us/fabric/data-science/concept-ai-skill





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