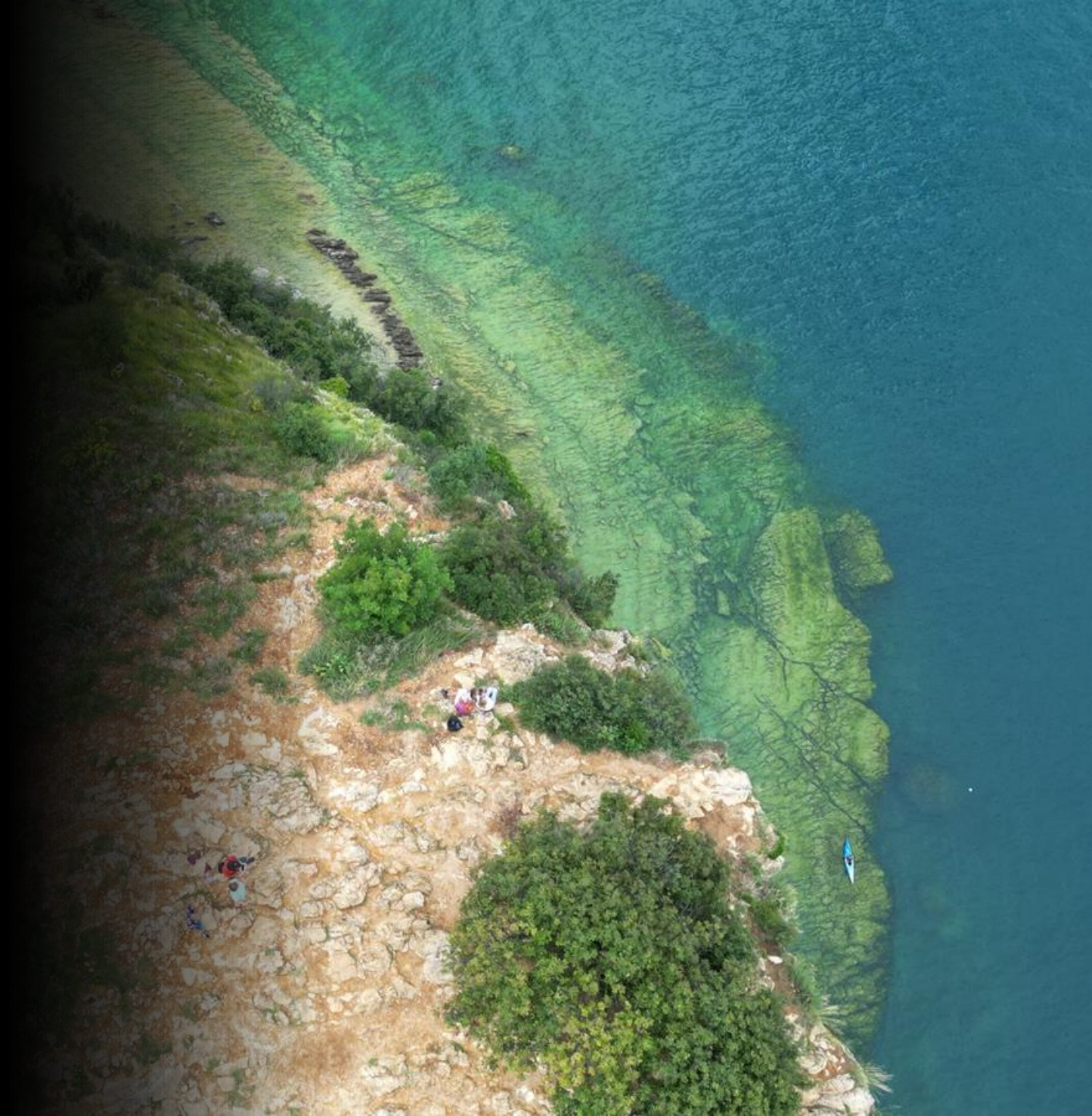


Changing the way how we interact with data





**POWER
CONFERENCE**

Partners

Thank you for making this possible 



manicap



KONICA MINOLTA



**Data
Brothers**

PROMISE
PROMISE GROUP

MULTIA
SOFTWARE ATELIER

Seyfor

NETWORG



TD SYNnex

GOPAS

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At Macaw



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Data-Marc.com



DutchFabricUsergroup.com

FAVORITE STUFF:



Market Understanding

What challenges do we try to solve



Typical challenges we talk about.



**Minimal distinctive
products and
propositions**



**Limited distinctive in
pricing**



**Finding the right skilled
people**



**Hiring more people
limits in growth and is
too expensive**



**Customers & employees
expect the latest
technologies**

Solutions we implemented with Microsoft technology.



**Maximize customer
service**



**Smooth experience in
sales and aftersales**



**Level-up your overall
customer experience**



**Increase efficiency by
automation**



**Predict customer
lifecycle**

To succeed, you need to invest in:



Technology

(digital experience, employee empowerment, etc.)



Automate and robotize processes



Data

Challenges.

- Improve customer experience
(long wait times, prepare for spikes in call volume)
- Brand Alignment
- Improve problem / question resolution

Solution.

- Use complicated legal policy documents, Knowledgebase, Service desk systems.
- Full leverage of prompt engineering capabilities like “embeddings/idioms”.
- Control over the conversation, without sidetracks or hallucinations.

Without **data**...

there is no **AI**

Set a proper foundation for your data platform!

Nobody wants to build a
house on quicksand, right?



Today's data and analytics challenges.



Balancing the need for data access and self-service analytics while remaining governed

Breaking down data siloes across the organization into a unified source of truth



Delivering on the promise of analytics with limited resources



Limited scalability of legacy solutions as data demand rises exponentially





Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Analytics



Databases



Real-Time
Intelligence



Power BI



Industry
Solutions



Partner
workloads



AI

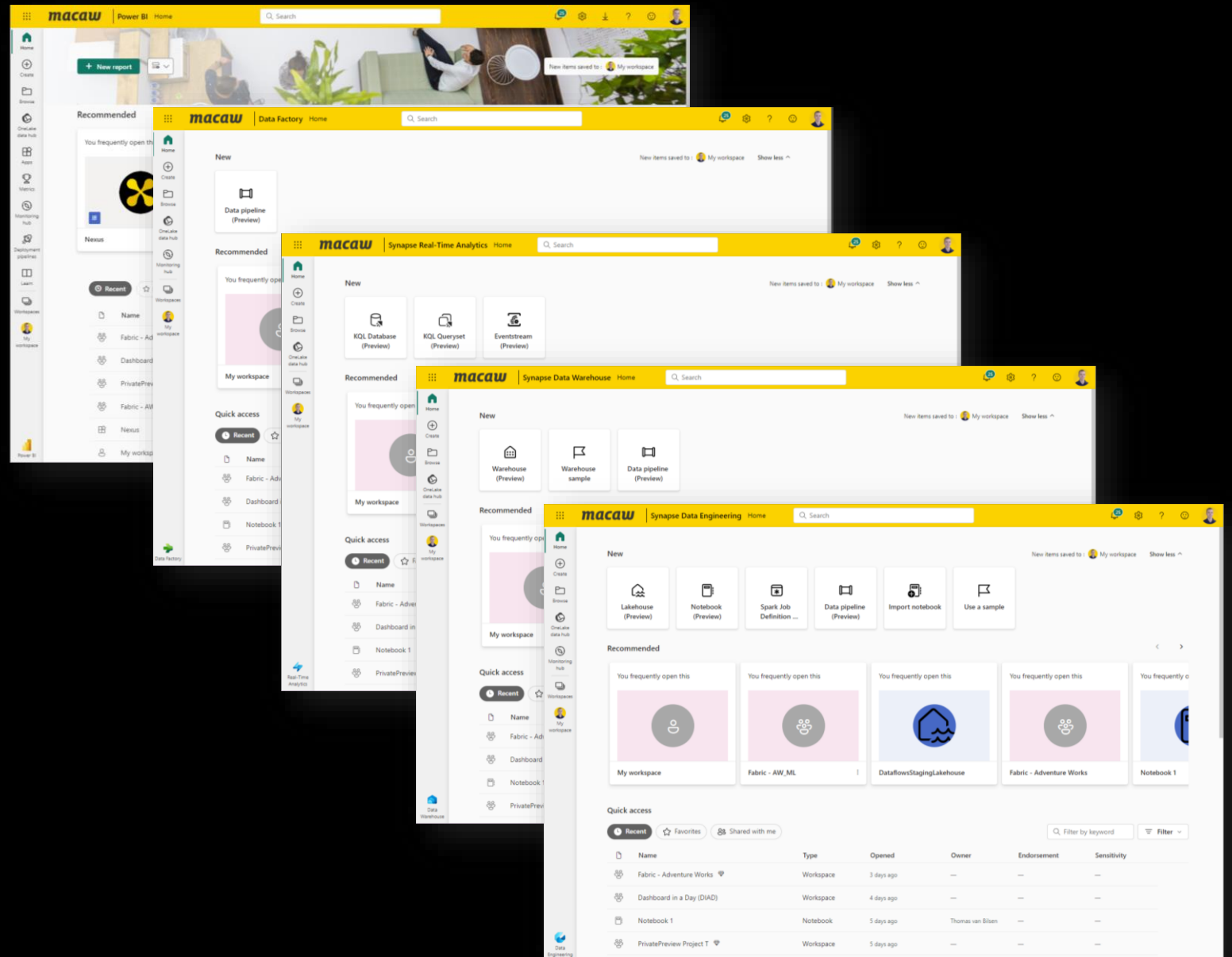


OneLake



Microsoft Purview

One platform One interface.



Fabric capabilities.

Data
Movement

Data Lakes

Data
Engineering

Data
Integration

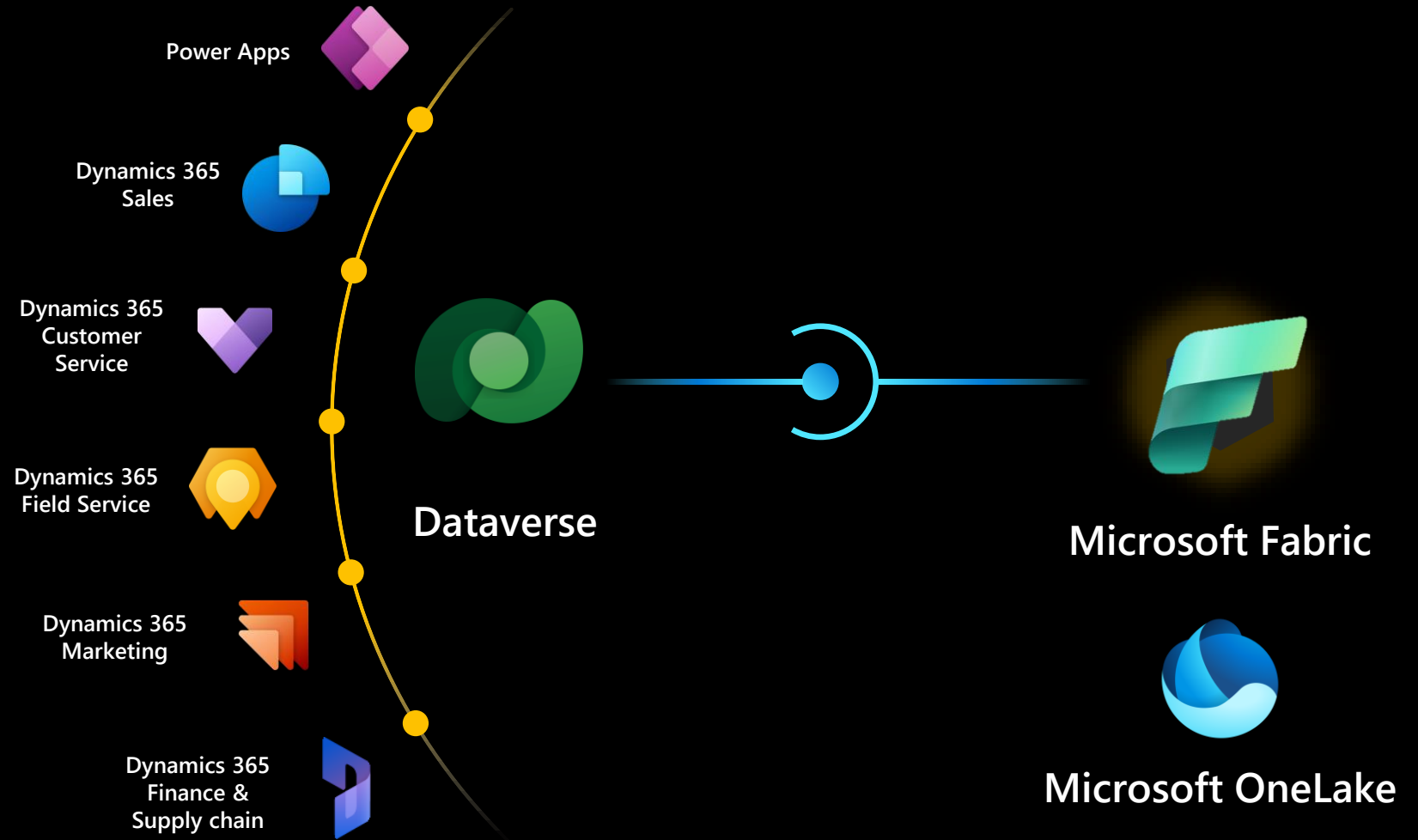
Data
Science

Real-Time
Analytics

Business
Intelligence

Automated
Actions

Bringing your data to Fabric.



Personas

Customer

Financial Advisors

Portfolio Managers

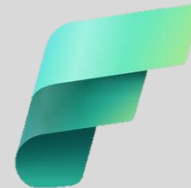
...

Modern Technology

Co-pilot / Chatbot

Predictions

Data Management
Platform



Fabric

Platforms

Digital Experience

CRM & ERP

Document
Management

...

But...

What if you could **chat** with your data?

What if you could chat with your data?

- Combining the world of Power Platform with Microsoft Fabric – your data management platform
- Experience inside Teams
- Security by design
- Real time updates

The screenshot shows a chat window titled "HR Support" with tabs for "Chat" and "About". The chat history includes:

- A user message at Tuesday 1:45 PM: "What is my current vacation day balance?"
- An HR Support bot response at Tuesday 1:45 PM: "Your current balance is 21.5 days. Do you directly want to request a day off?" with a form containing "Yes" and "No" buttons.
- A user message at Tuesday 1:45 PM: "Yes"
- An HR Support bot response at Tuesday 1:45 PM: "Great! For which day?"
- A user message at Tuesday 1:45 PM: "1 november 2023"
- An HR Support bot response at Tuesday 1:45 PM: "How many hours do you want to take off that day?"
- A user message at Tuesday 1:46 PM: "4"
- An HR Support bot response at Tuesday 1:46 PM: "Great! Your request for 4 hours of on 11/1/2023 12:00:00 AM has been submitted. You will receive a message when the request has been approved."

“ IF THE ONLY TOOL YOU HAVE IS A HAMMER,
IT IS TEMPTING TO TREAT EVERYTHING
AS IF IT WERE A NAIL ”



**Should we hammer it
with Copilot?**

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

AI in Fabric.



Data
Factory



Analytics



Databases



Real-Time
Intelligence



Power BI



Industry
Solutions



Partner
workloads



AI



OneLake



Microsoft Purview

Copilot in Fabric.



Copilot accelerated
experiences



AI-driven
insights



Custom
generative AI
for your data

Copilot in Fabric.

Public Preview



Data Factory

Get intelligent code generation to transform data with ease and code explanations to help you better understand complex tasks.

Public Preview



Data Warehouse

Write and explain T-SQL queries, or even make intelligent suggestions and fixes while you are coding.

Public Preview



Data Engineering & Data Science

Quickly generate code in Notebooks to help work with Lakehouse data and get insights.

Public Preview



Databases

Write and explain T-SQL queries, or even make intelligent suggestions and fixes while you are coding.

GA



Real-Time Intelligence

Translate questions into KQL queries that you can execute.

GA



Power BI

Quickly create report pages, natural language summaries, and generate synonyms.



Demo: Copilot in Power BI

AI Skills.

Deliver custom generative AI experiences for **your data** with **AI Skill**



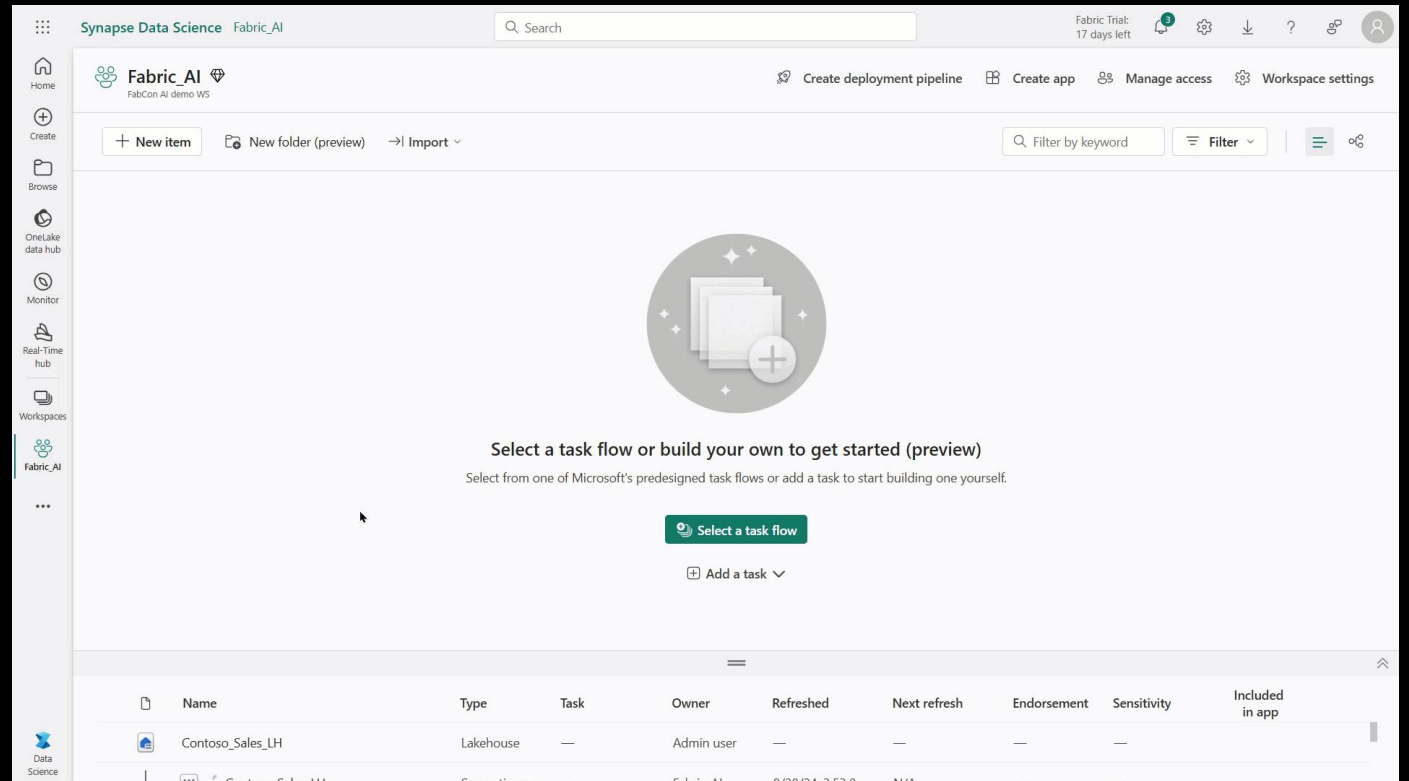
Allow your users to talk to data in Fabric







Create, curate and configure a **data expert** on your data domain

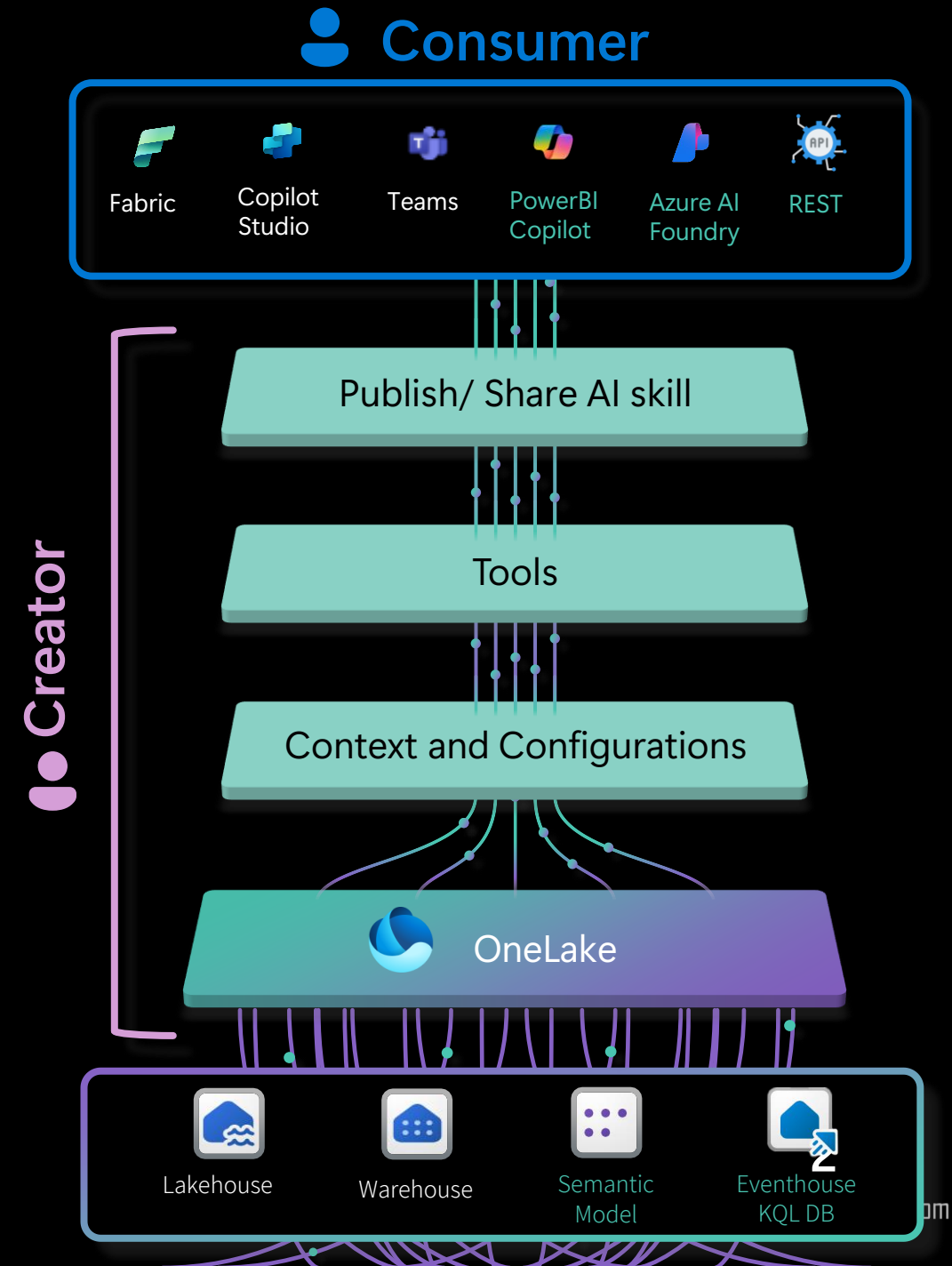


Share AI skills with other creators and consumers in Fabric



AI Skills.

-  The **conversational AI skill** 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 **semantic models and Eventhouse KQL databases**, to create a powerful Data Expert tailored to your data domain.
-  Your Data Agent can be consumed inside and outside of Fabric. Stay tuned for **upcoming integrations** with Copilot Studio, Teams, Azure AI Foundry and your own custom applications.



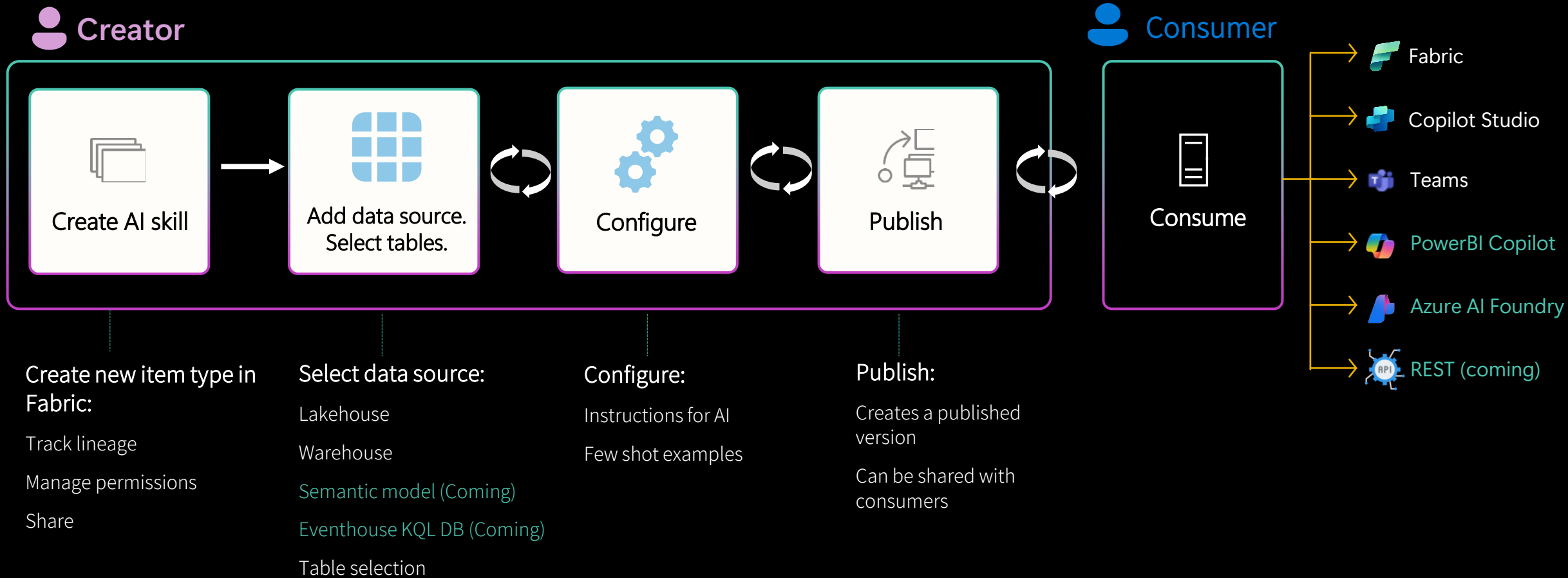
Understanding the **interface** of AI Skills.

The screenshot displays the Data-Marc.com AI Skills interface. The top navigation bar includes the site name, a search bar, and user controls. The left sidebar contains navigation icons for Home, Create, OneLake, Monitor, Real-Time, Workloads, Workspaces, AI Skills, and ChatWithDemoData. The main content area is divided into several sections:

- Explorer:** A tree view on the left showing the 'DemoData' lakehouse with tables like 'dbo_DimDate', 'dbo_DimProduct', 'DimProductCategory', 'DimProductSubcategory', 'DJISRT', and 'FactInternetSales'. 'DimProductCategory' is selected.
- Chat window:** A central area for interacting with the AI model. It contains a prompt 'List product categories and their sales', a generated SQL query, and a text input field for follow-up questions.
- Model behavior:** A panel on the right with settings for 'SQL query variations' (set to 3), a toggle for 'Show executed SQL query' (set to Yes), and a 'Notes for model' section with a text area for additional context.
- Preview data:** A table at the bottom showing the results of the query, with columns 'ProductCategoryKey', 'ProductCategoryAlter...', and 'ProductCategoryName'.

Yellow callout boxes with arrows point to specific features: 'Chat window' points to the central chat area; 'Connected lakehouse tables' points to the Explorer sidebar; 'Preview from selected table' points to the 'Preview data' table; 'No. of variations to run through AI' points to the 'SQL query variations' input; 'Notes to enrich model' points to the 'Notes for model' text area; 'Example queries you can enter' points to the 'Example SQL queries' section; and 'Executed SQL expression' points to the SQL query text in the chat window.

AI Skills end-to-end flow.





Demo: AI Skills in Fabric

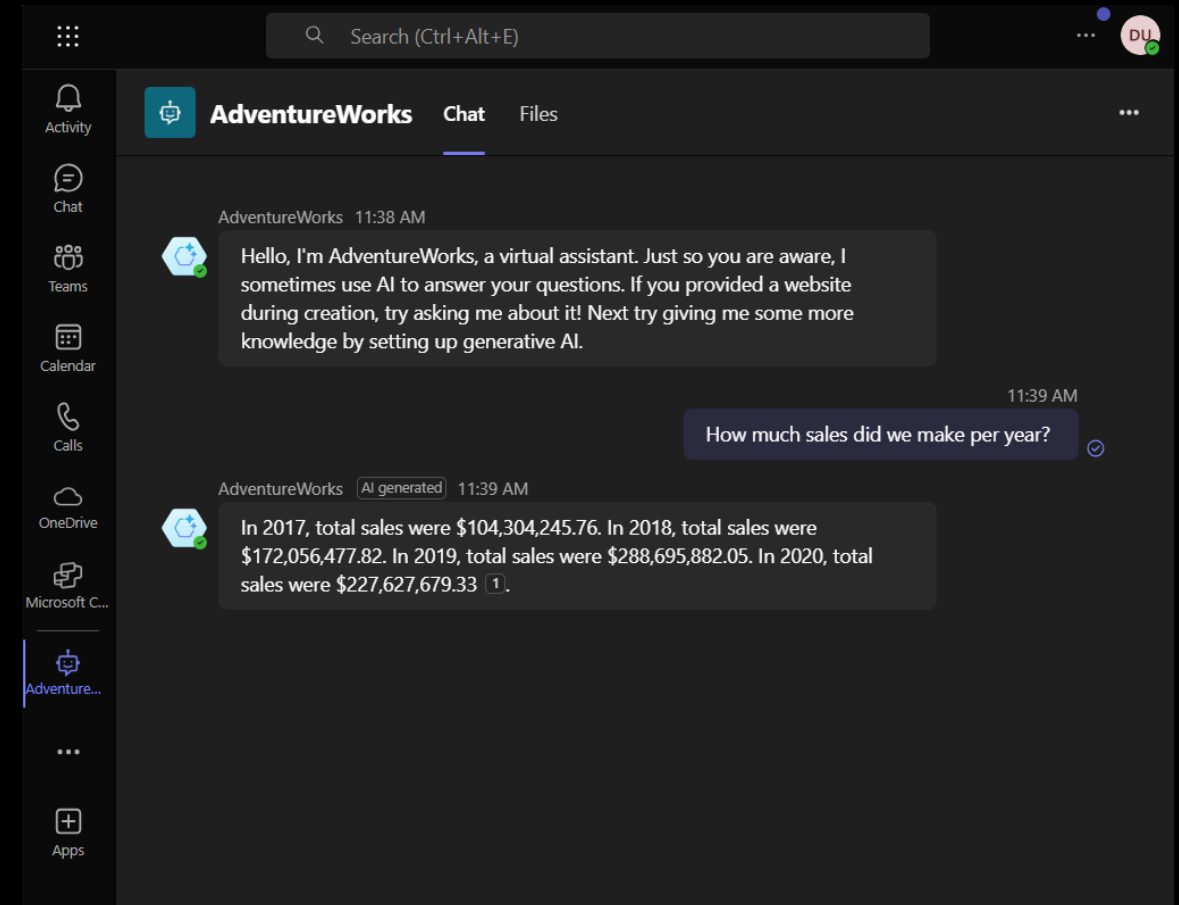
How do users access the **chatbot**?

Cluttering of tools.



How do users access the **chatbot**?

- Integration with CoPilot Studio
- Bring it to the tool we all love to hate (MS Teams)
- Add it as an app to Teams



Recap & gotcha!

AI Skills...

- ...are currently in public preview
- ...require Fabric capacity F64+
- ...only work on structured data (lakehouse or warehouse – more sources coming)
- ...generate NL2SQL only
- ...loses accuracy if you use large schemas with dozens of tables

Copilot Studio...

- ...has its own licensing structure
- ...results may differ from AI Skills – although connected

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

The future is bright!



Ready to start your journey?

Marc Lelijveld



Data-Marc.com

