



Build Your Virtual Sidekick Who Hates Football *in 60 Minutes*

DATAERA

The Reality Inside Most Organizations

Common enterprise challenges:

- Data spread across multiple systems
- Manual approvals
- Email-driven workflows
- Limited visibility
- Slow reporting cycles



Enterprise Digital Journey





Microsoft Power Platform Ecosystem



Power BI
Business analysis



Power Apps
Business Applications



Power Automate
Workflow automation



Microsoft Copilot Studio
Autonomous agents



Dataverse



**Data
connections**



AI Builder



Power BI: Turning Data into Business Insights

Why Power BI?

- Create a **single source of truth** from fragmented data
- Monitor KPIs in **real time**
- Enable **data-driven decisions**
- Identify trends, risks, and opportunities

Business Need

- Data spread across multiple systems
- Manual and inconsistent reporting

Business Impact

- Greater efficiency
- Improved transparency
- Better forecasting
- Increased productivity



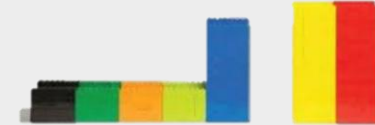
RAW DATA



DATA
PREPARATION



AGREGATION



VISUALIZATION



ACTIONABLE
INSIGHTS

Power BI: Turning Data into Business Insights

*Your data on demand
Anywhere, Anytime*





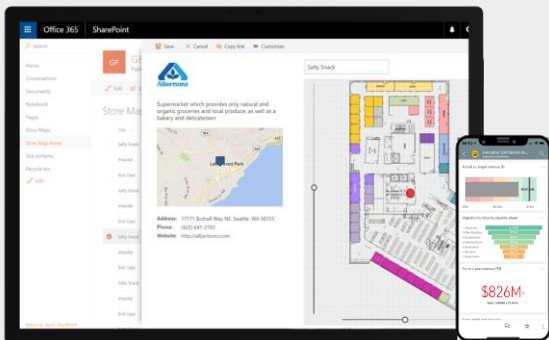
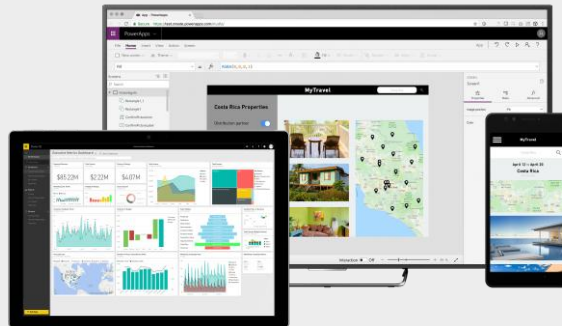
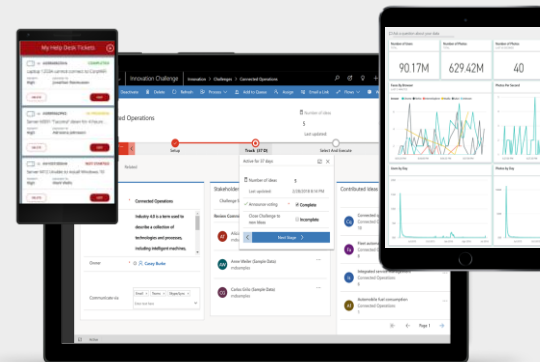
Power Apps: Modern Business Applications

Low-code/no-code platform for enterprise innovation

Adaptation of ready-made solutions, embedded forms, and reporting dashboards

Easy scalable, task and role-based programs for Business

Simple, universal solutions available in multiple platforms





Power Apps: Modern Business Applications



Power Apps | Hardware Request and Management

Recent | Pinned | Dashboards | Reports | Requests | Request Items | Budget | Budgets | Purchase Orders | Assets | Assets | Catalog | Products | Product Types | Product Subtypes | Administration | Business Groups | Teams | Users

New headset upgrade - Saved
Hardware Request

Rolandas R. Submitted By | \$3,900.00 Request Amount | Pending Approval Status | In Progress Request Status

Hardware Request Process Active for 23 hours

Review | Purchase (23 Hrs) | Receive | Deliver | Complete

General | Items | Purchase Orders | Assets | Related

Details

Name *
New headset upgrade

Business Group *
Administration

Submitted By *
Rolandas R. (Offline)

Require Purchasing?
Yes

Request Amount
\$3,900.00

Last updated:
9/8/2026 2:55 PM

Submitted On

Completed Date
M/d/yyyy

Requested For
Giedrius R. (Offline)

Request Number
DR-001000

Approval

Approval Status
Pending

Approval Comments

Approved By

Approved On

Additional Details

Select to enter data

Items + New Hardware Reque...

	Names	Quantity	Unit Price	Total Amo...	Hardware Ri
☐	phones	2	\$1,500.00	\$3,000.00	New headse
☐	headphones	5	\$180.00	\$900.00	New headse

Rows: 2

Purchase Orders + New Purchase Order

	Name	PO Num...	Amount	Business Gro...	Budget
☐	Buy new headsets		\$2,000.00	Administration	Admin

Rows: 1

Assets + New Asset

	Name	Owner	Business Gro...	Asset Nu...	Asset Status	Produc
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Power Automate: Turning Processes into Workflows

Automated approvals across all data repositories and services

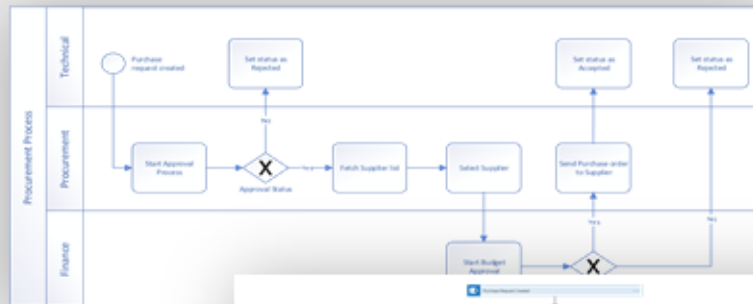
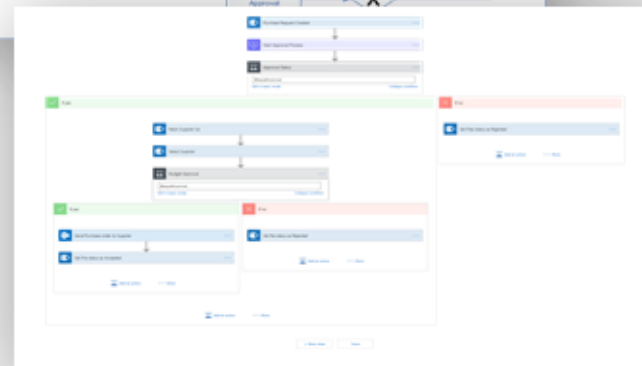
Recurring processing such as identifying all records that expire within the next 7 days

Business process guidance with interactive step-by-step completion of common business processes

Automatic triggering based on data or service events, such as the creation of a record or file

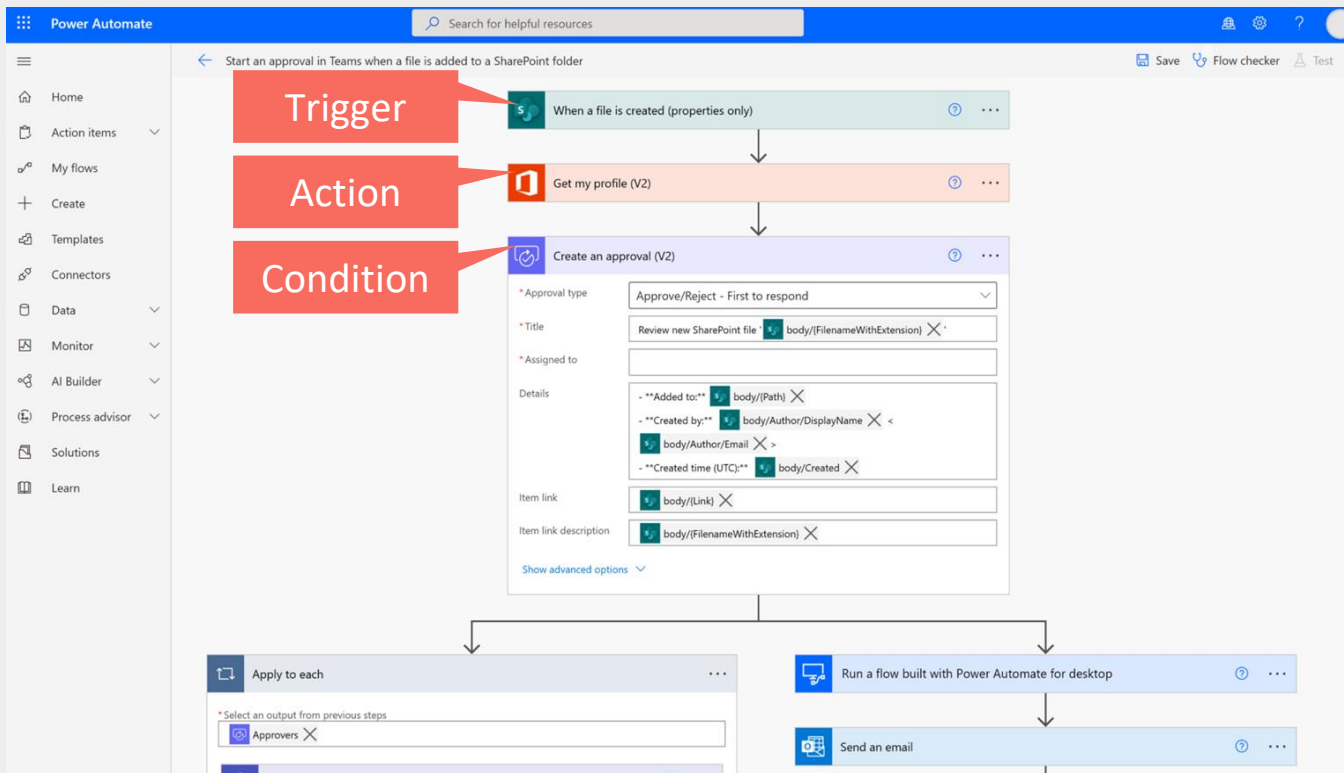
A **mobile device user presses a button** to initiate automation, including contextual information

A **Power Apps user clicks a button** to run a flow in the background





Power Automate: Workflows

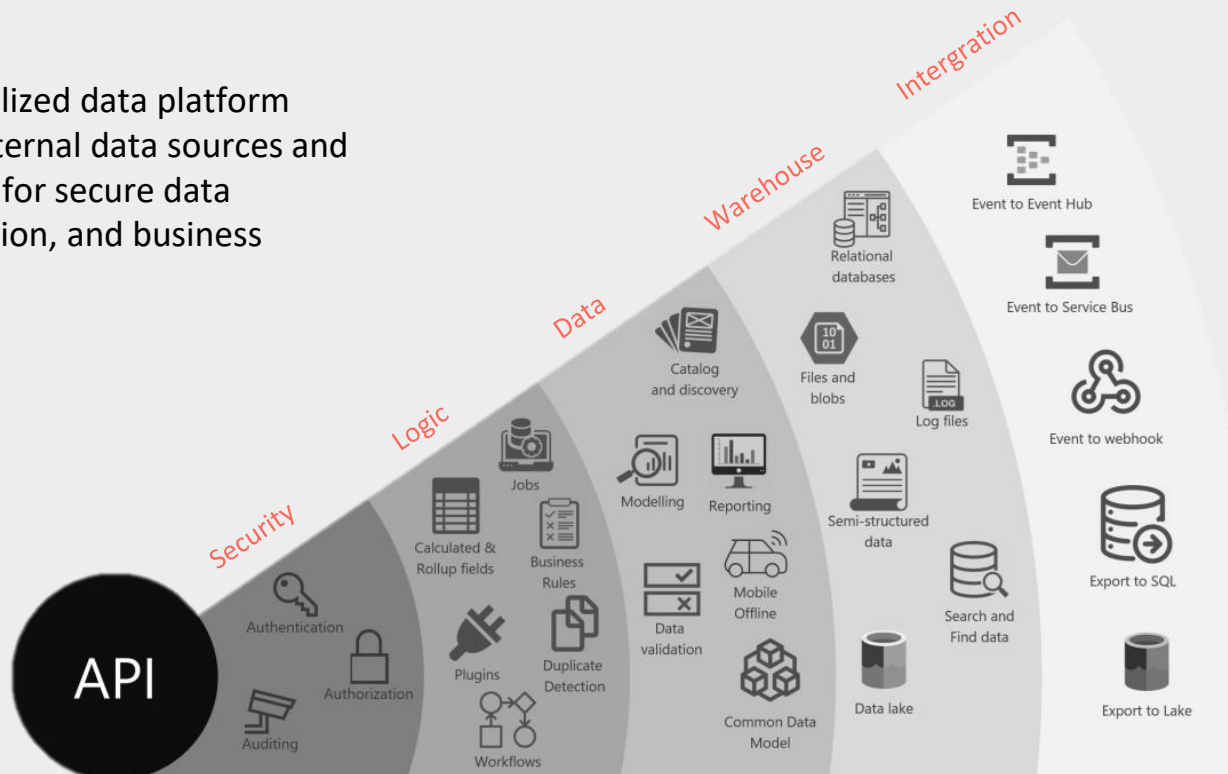




Dataverse: The Business Data Foundation

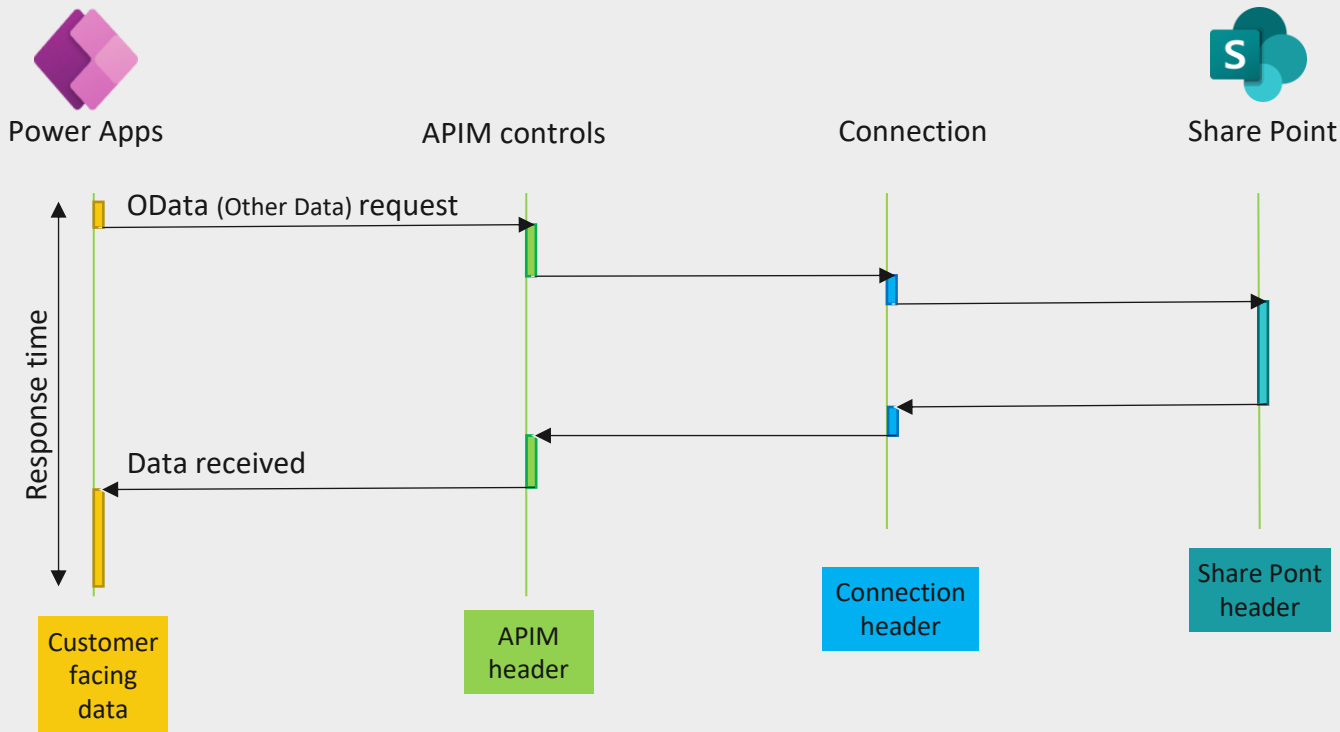


Microsoft Dataverse is a centralized data platform that seamlessly connects to external data sources and provides advanced capabilities for secure data storage, management, integration, and business application development.



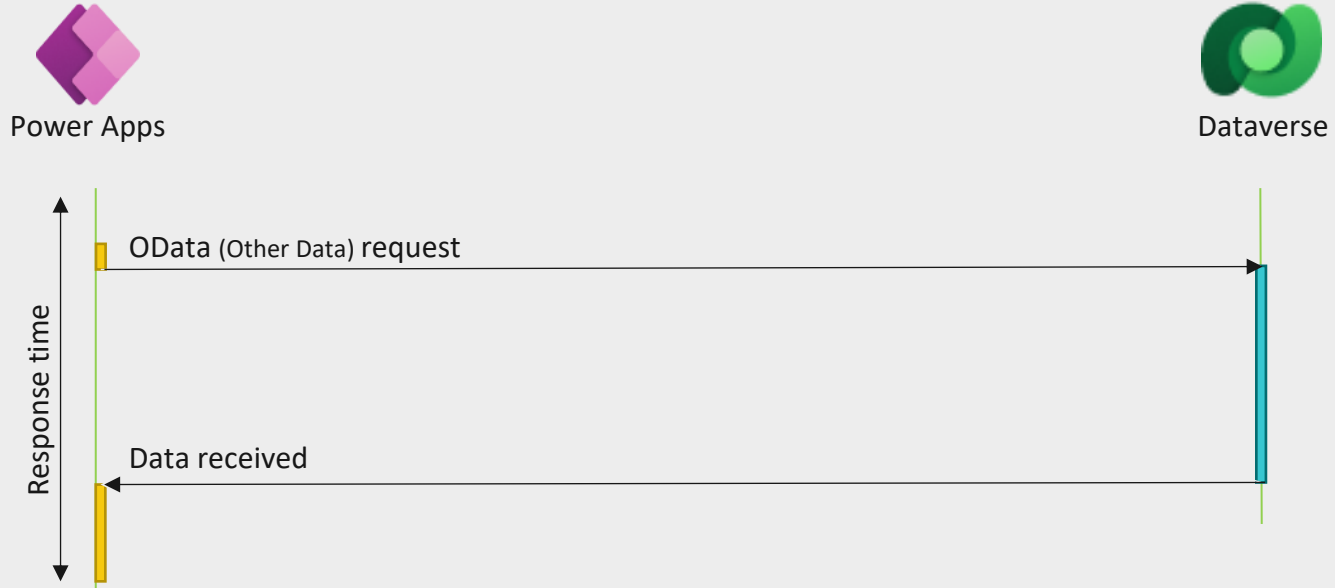


Dataaverse: data exchange



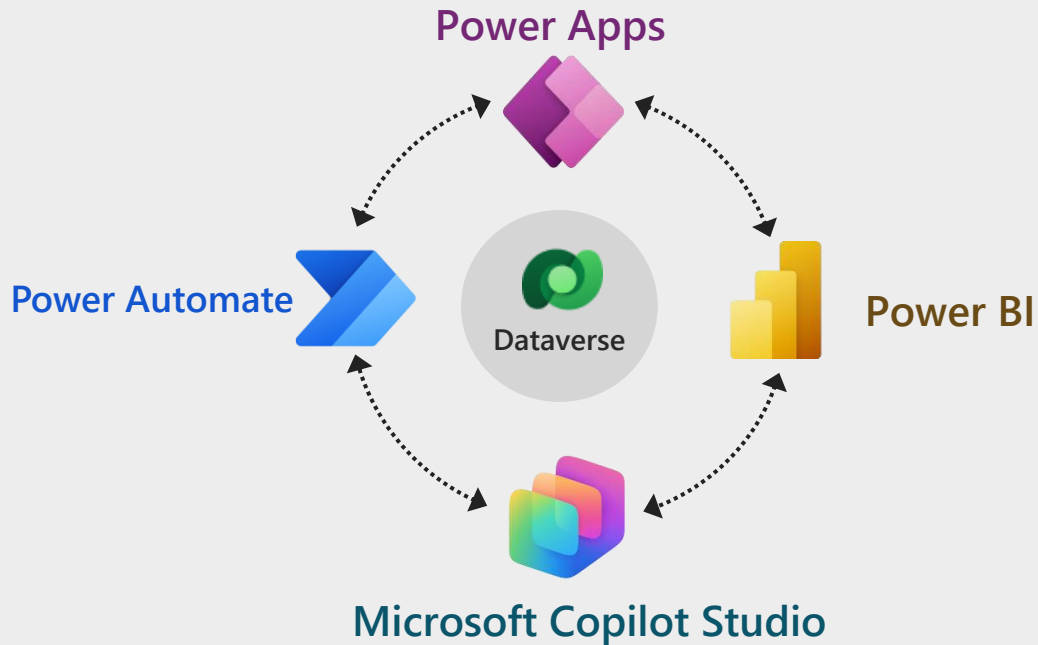


Dataverse: data exchange

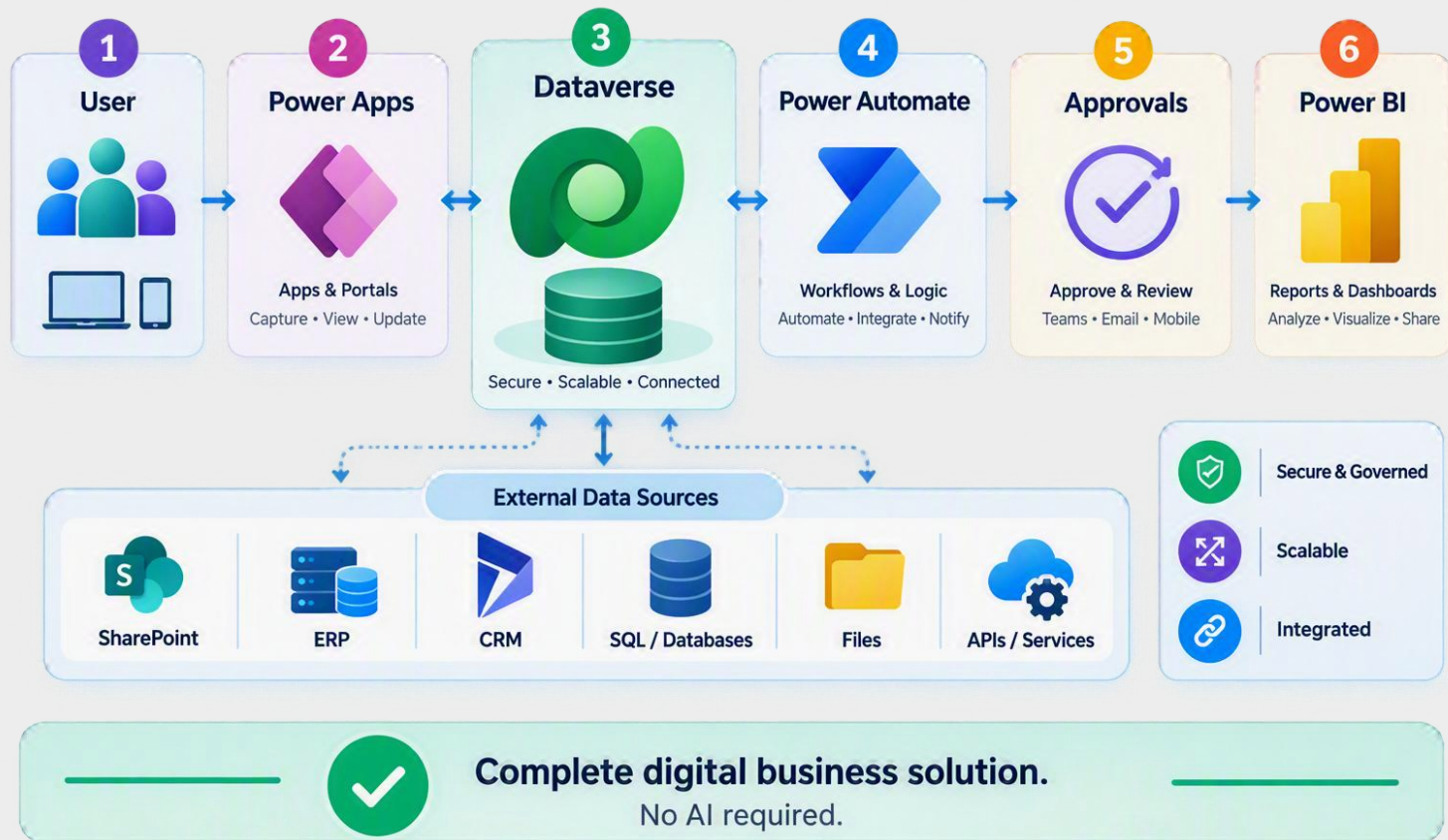




Dataverse: data exchange

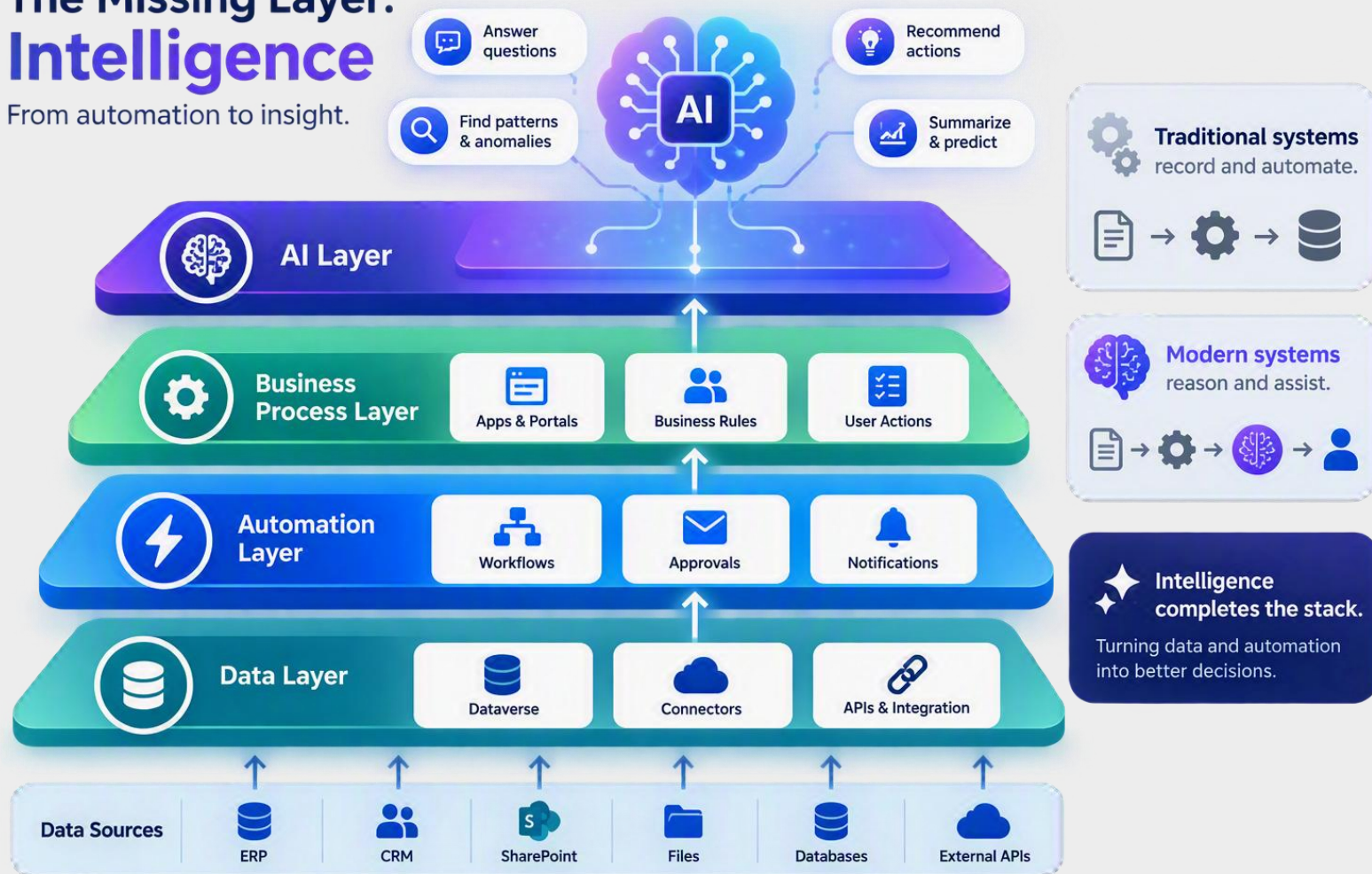


End-to-End Solution Architecture



The Missing Layer: Intelligence

From automation to insight.

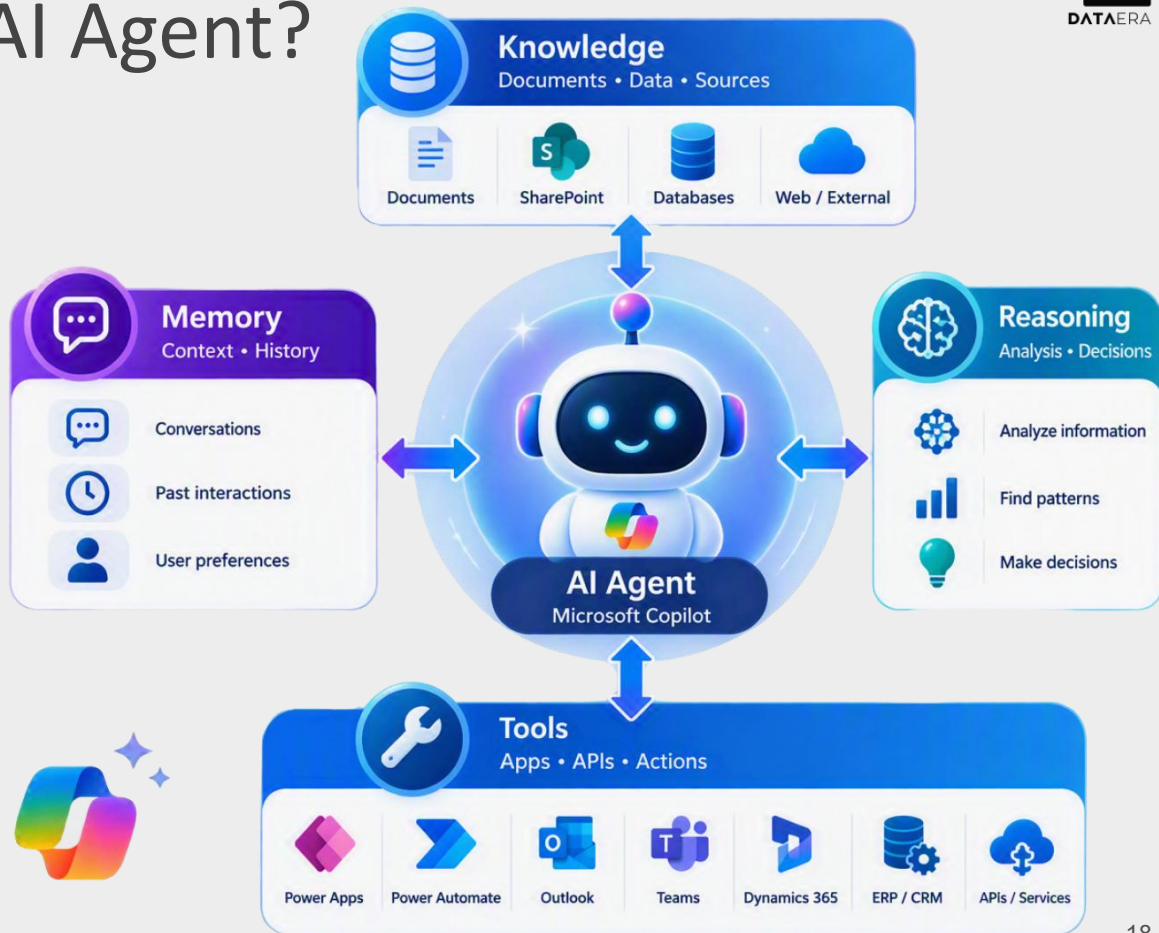


Assistant vs Copilot vs Agent



What Makes an AI Agent?

Agent is empowered with tools and knowledge to assist you better with every day business tasks.



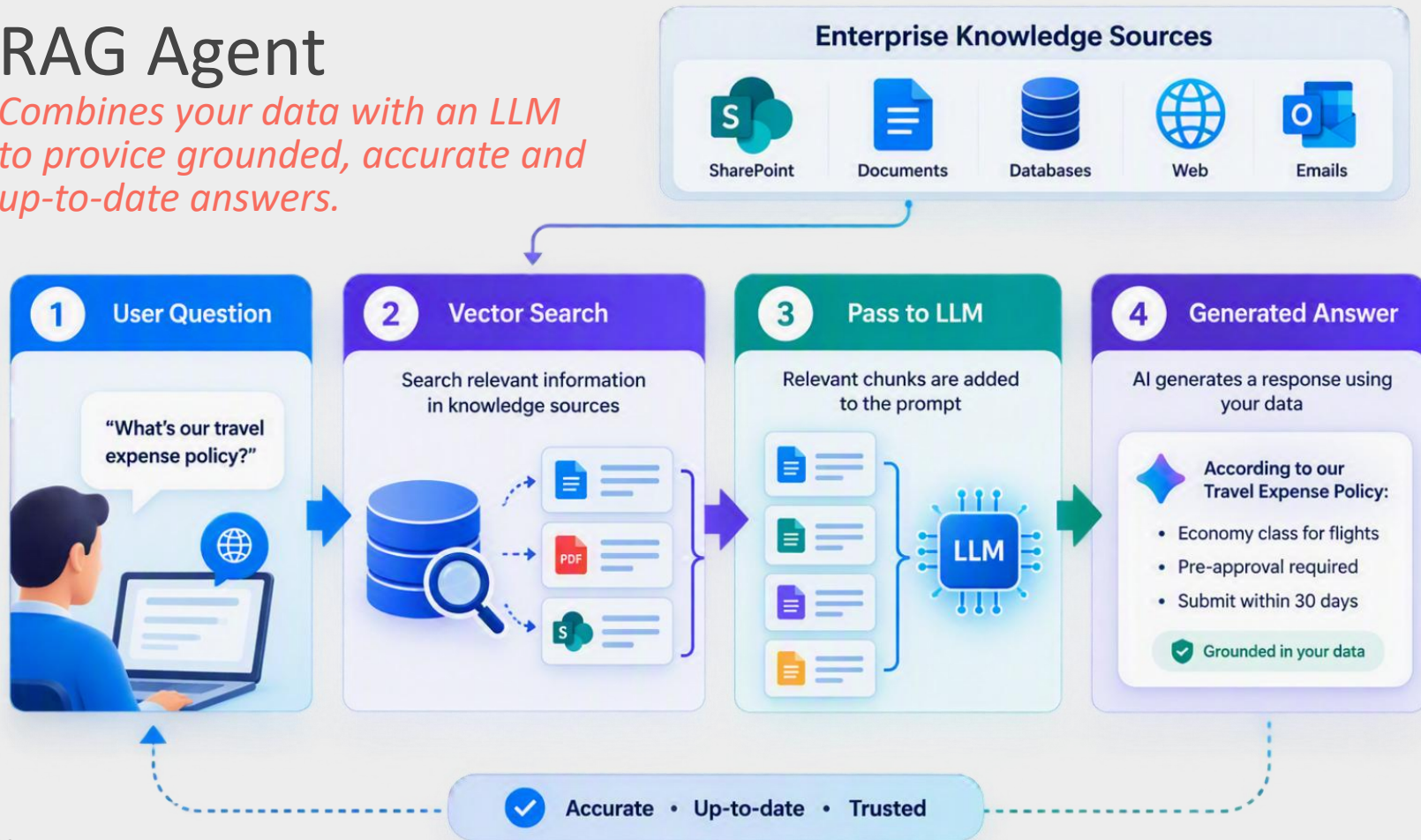
Enterprise Agent Design Patterns

Different patterns for different business needs

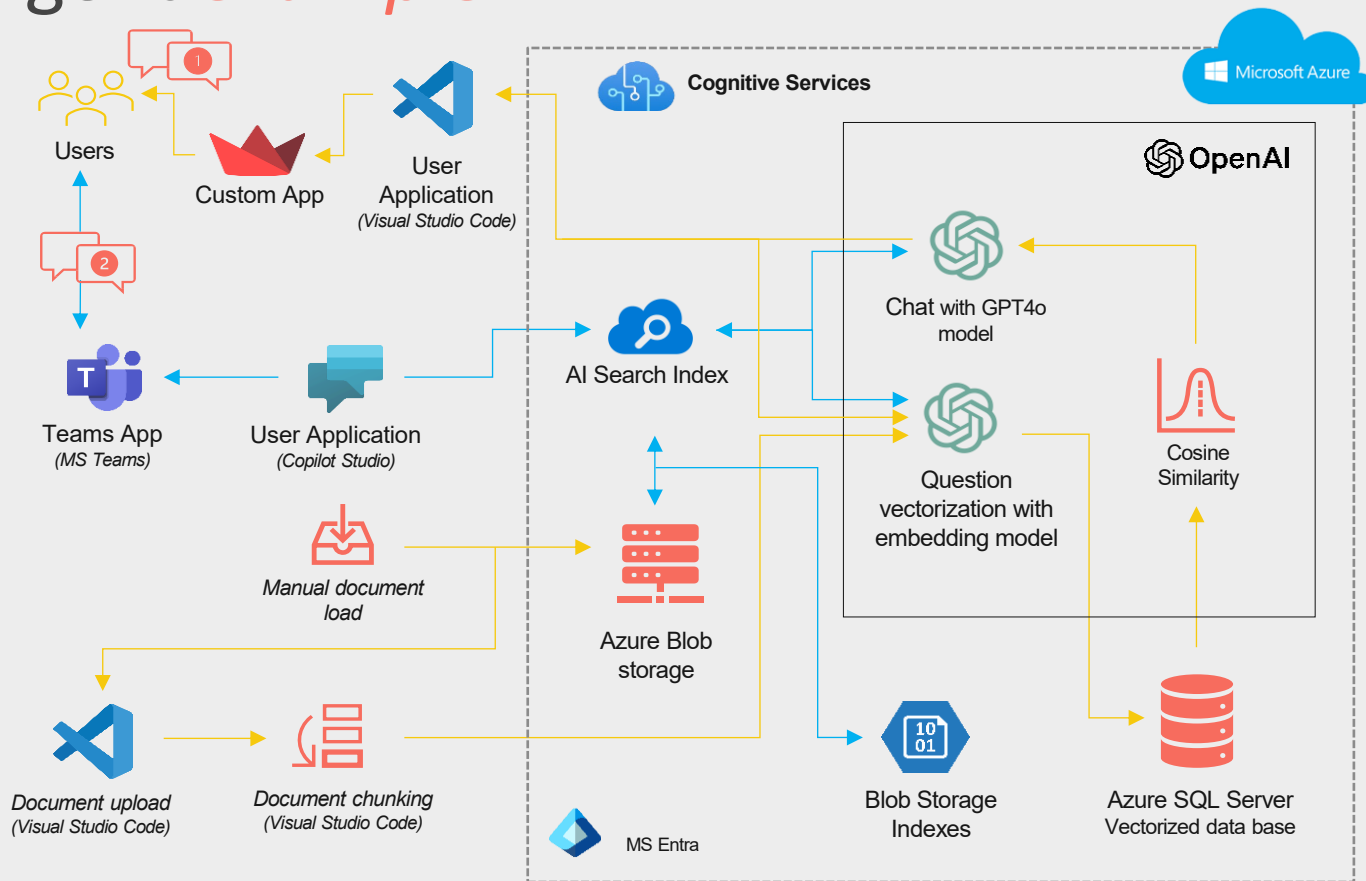


RAG Agent

Combines your data with an LLM to provide grounded, accurate and up-to-date answers.

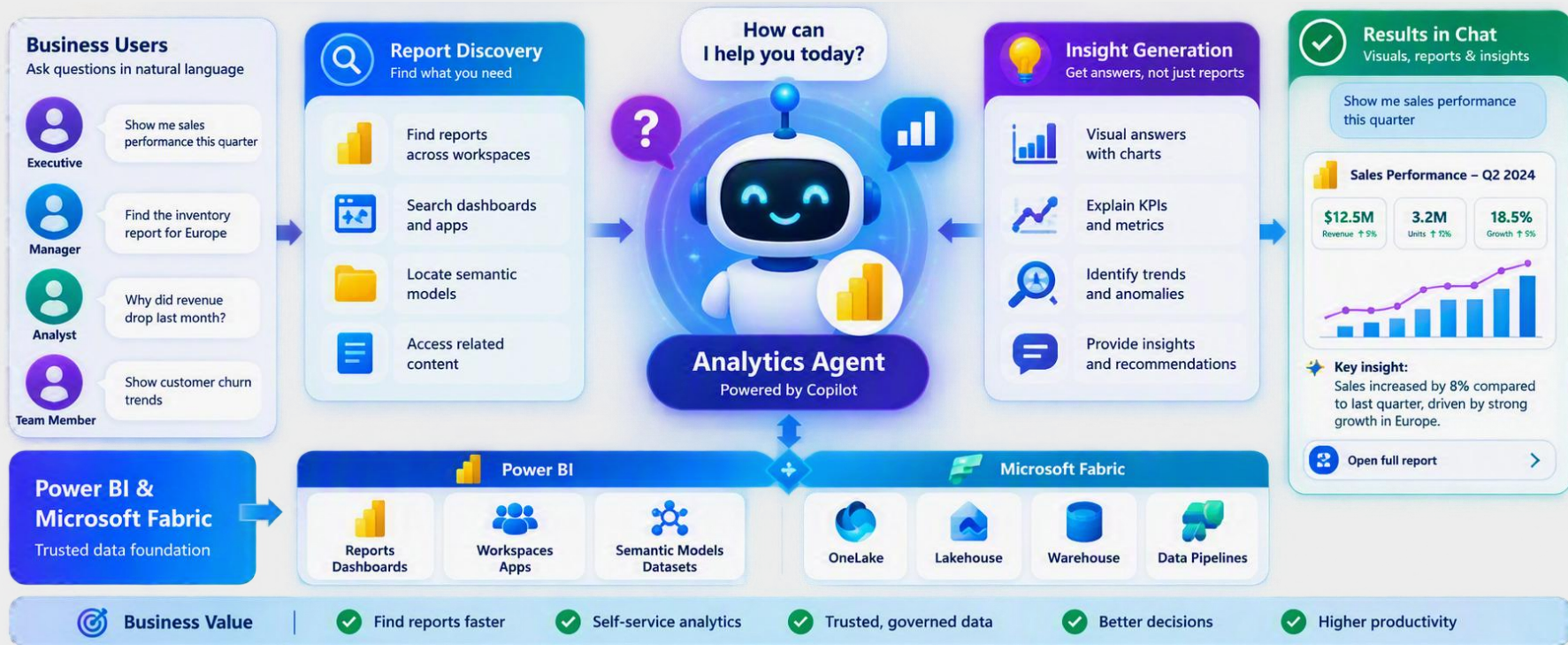


RAG Agent *example*

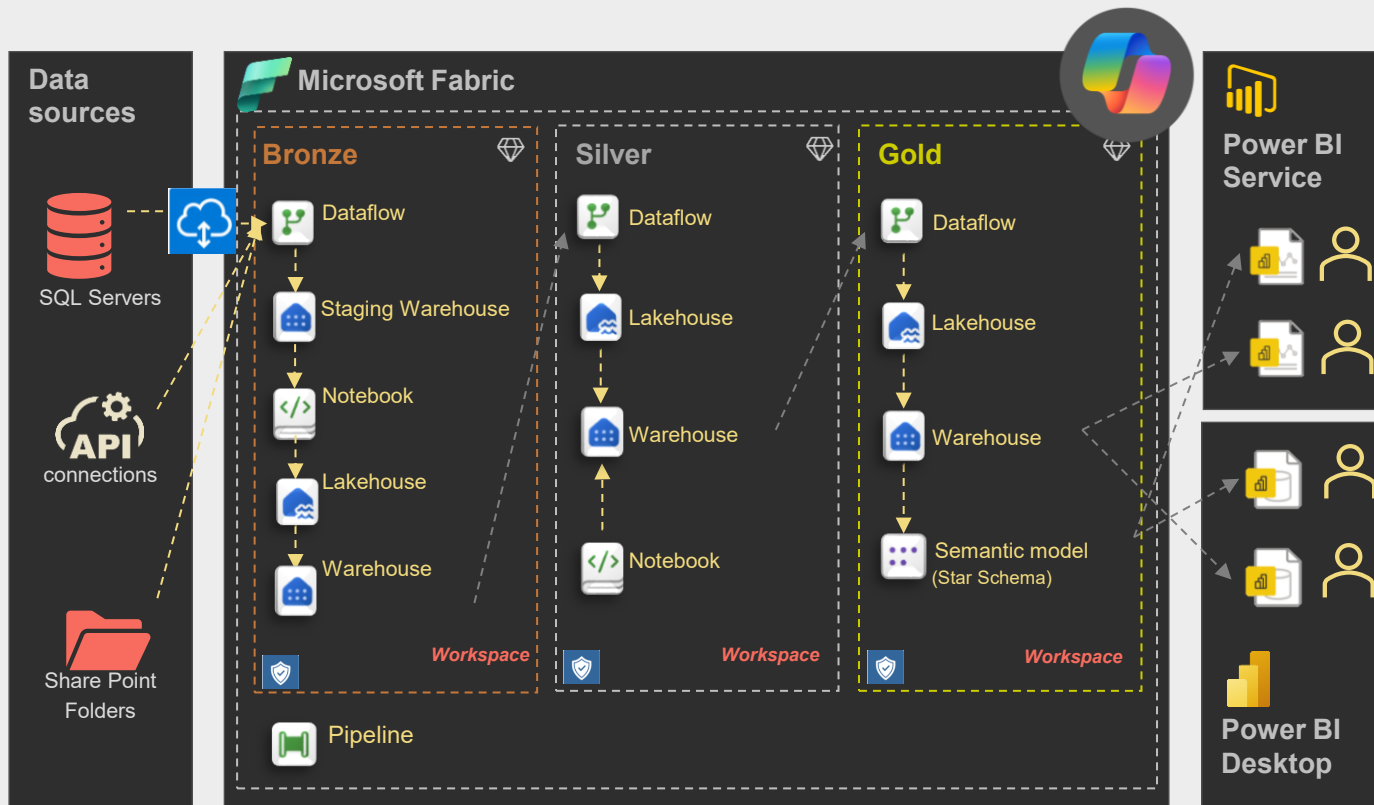


Analytics Agent

AI-Powered Business Intelligence Assistant

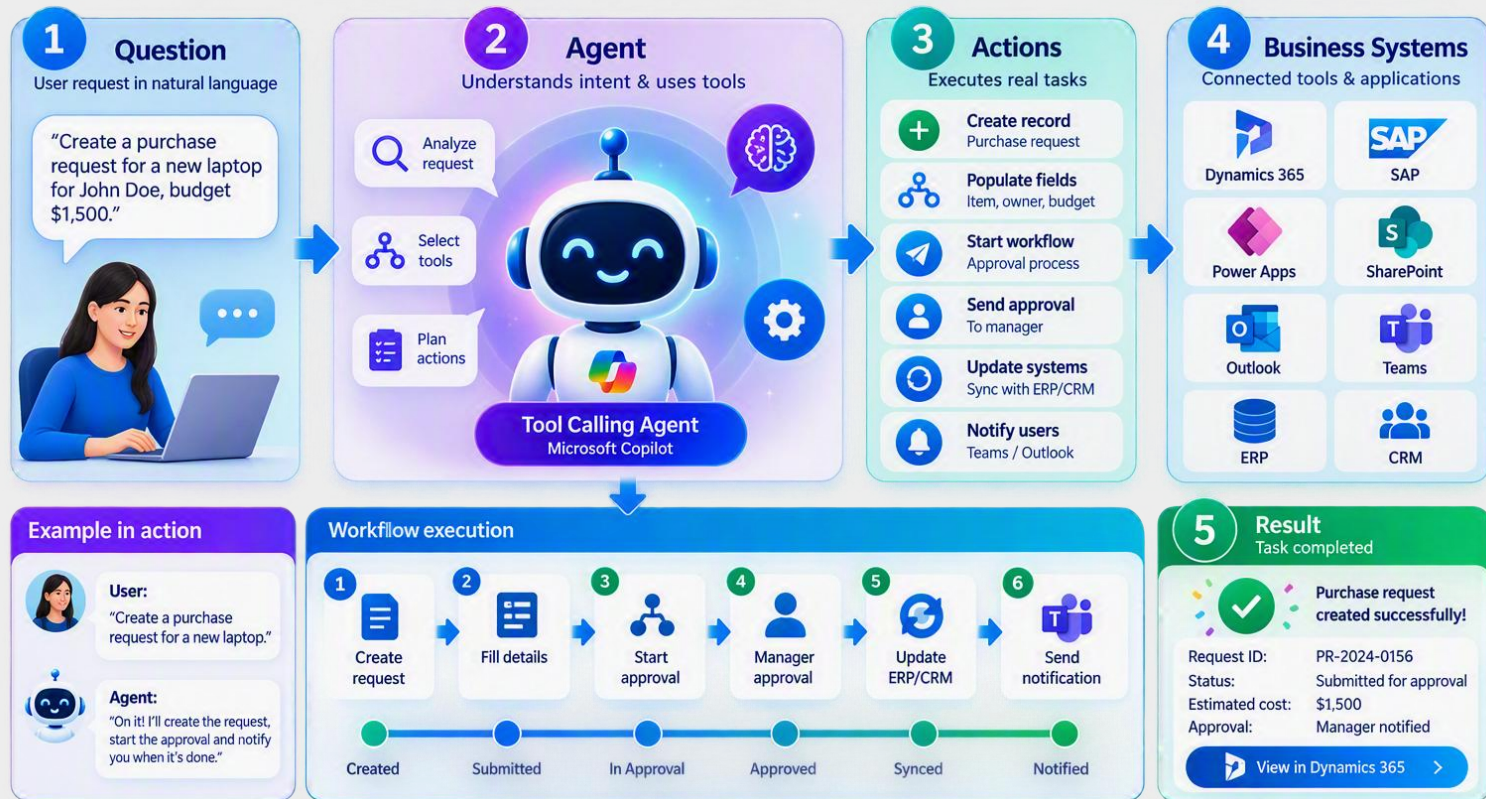


Analytics Agent *example*

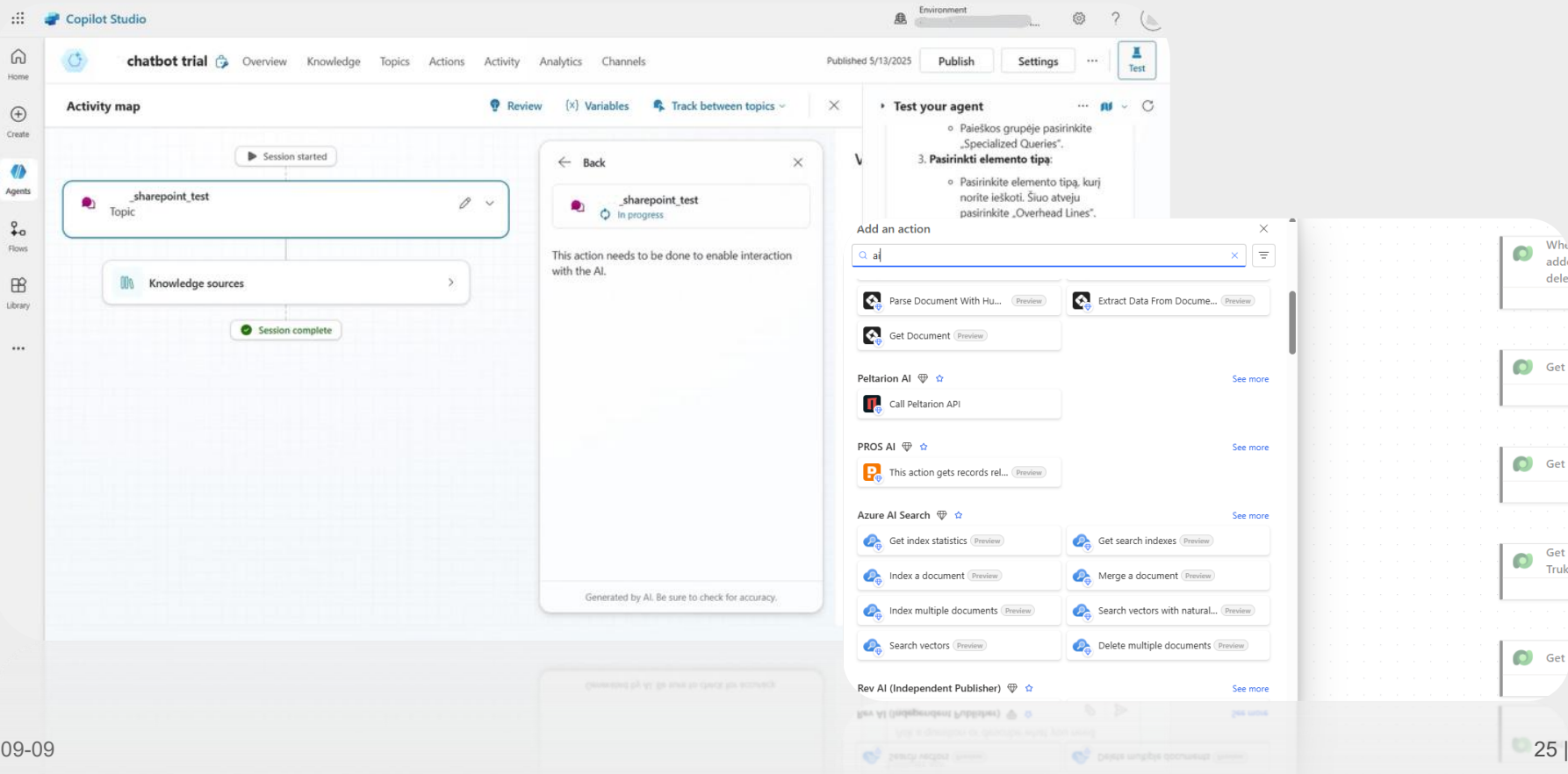


Tool Calling Agent:

From Question to Action



Tool Calling Agent *example*

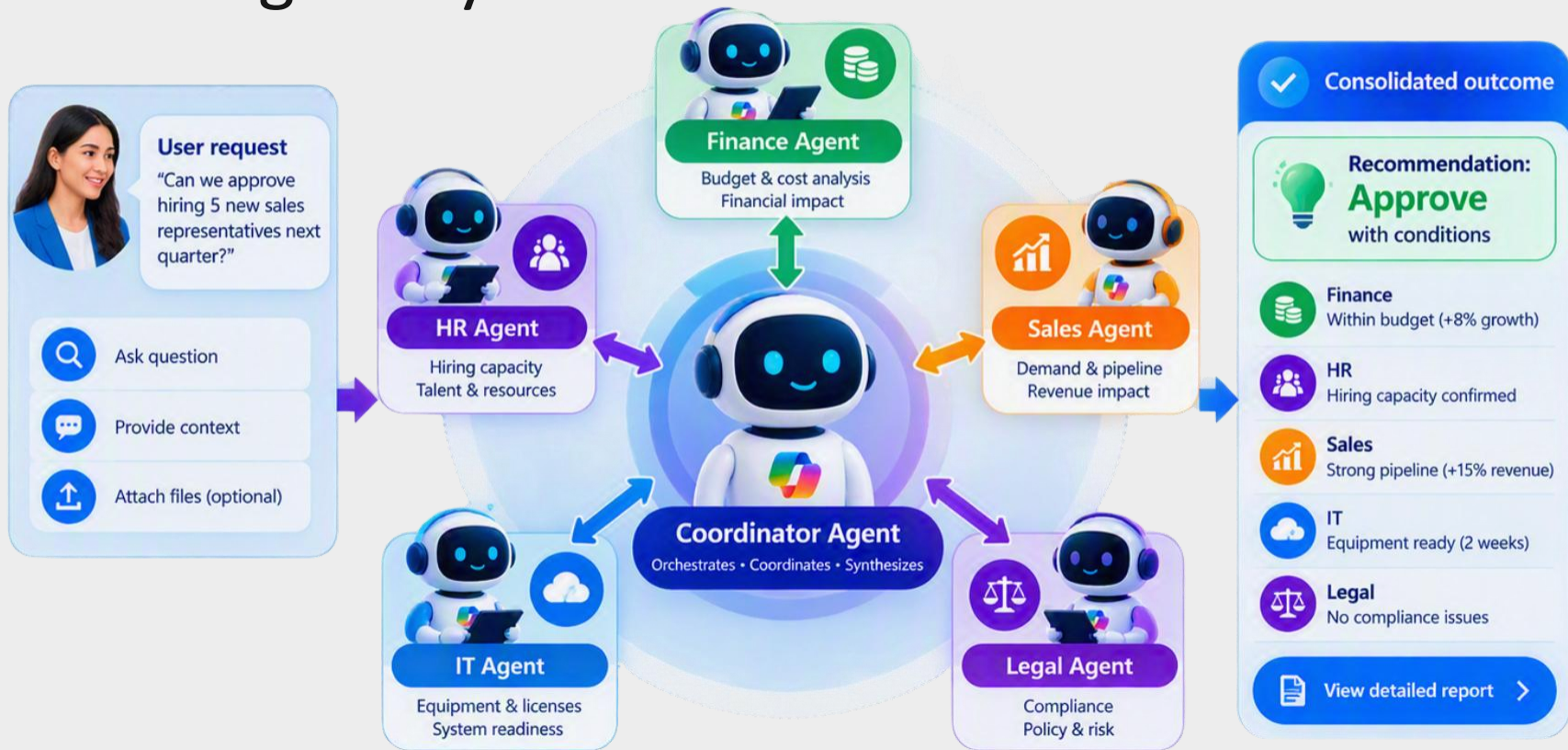


The screenshot displays the Copilot Studio interface for a chatbot named "chatbot trial". The top navigation bar includes links for Overview, Knowledge, Topics, Actions, Activity, Analytics, and Channels. The main area is divided into three panels:

- Activity map:** Shows a flowchart starting with "Session started", followed by a topic node "_sharepoint_test", then "Knowledge sources", and finally "Session complete".
- Test your agent:** A window titled "Test your agent" showing a list of actions to be performed. The first action is "Paieskos grupėje pasirinkite „Specialized Queries“". The second action is "3. Pasirinkti elemento tipą:". The third action is "Pasirinkite elemento tipą, kurį norite ieškoti. Šiuo atveju pasirinkite „Overhead Lines“".
- Add an action:** A panel showing a search bar with the letter "a" and a list of actions categorized by provider:
 - Parse Document With Hu...** (Preview)
 - Extract Data From Docume...** (Preview)
 - Get Document** (Preview)
 - Peltarion AI** (See more)
 - Call Peltarion API**
 - PROS AI** (See more)
 - This action gets records rel...** (Preview)
 - Azure AI Search** (See more)
 - Get index statistics** (Preview)
 - Get search indexes** (Preview)
 - Index a document** (Preview)
 - Merge a document** (Preview)
 - Index multiple documents** (Preview)
 - Search vectors with natural...** (Preview)
 - Search vectors** (Preview)
 - Delete multiple documents** (Preview)
 - Rev AI (Independent Publisher)** (See more)

At the bottom of the "Add an action" panel, there is a note: "Generated by AI. Be sure to check for accuracy."

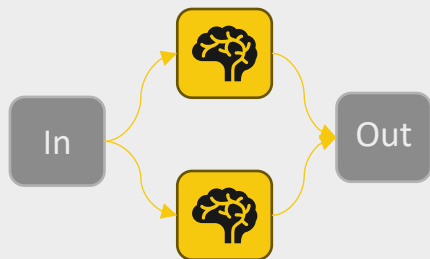
Multi-Agent Systems



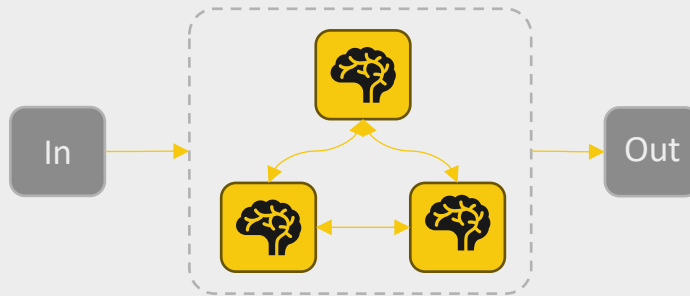
Patterns in multi-agent systems



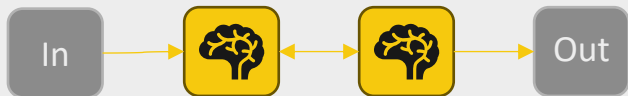
Parallel



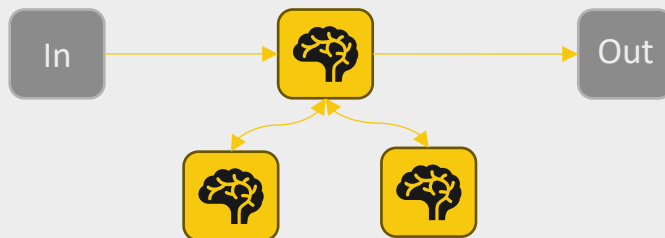
Network



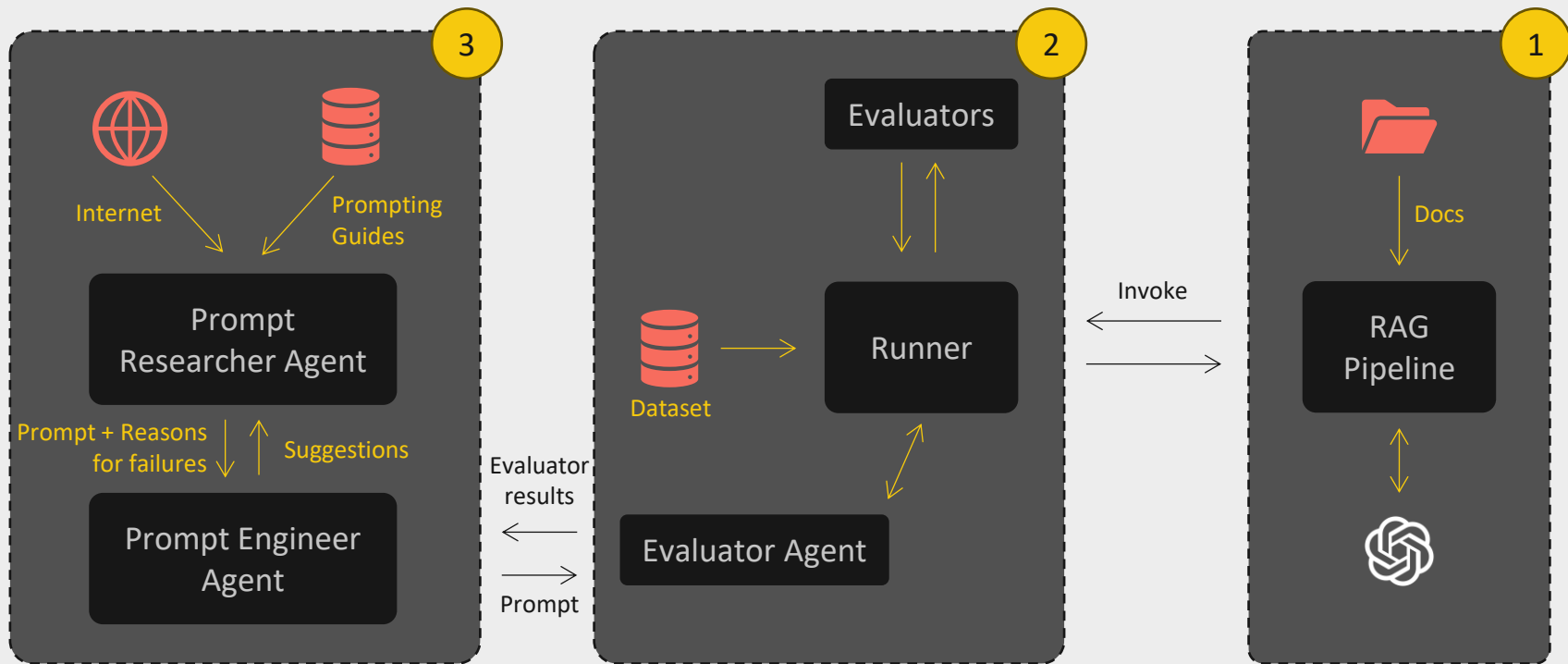
Sequential



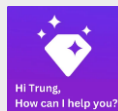
Hierarchical



Why prompt engineering is dead?



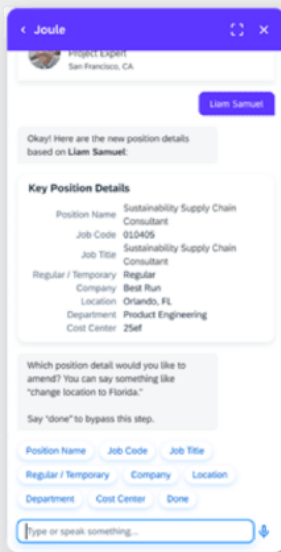
Multi-agent system in practice



SAP Joule

Copilot

Human
resources
Recruiting



Joule

Flight Expert
San Francisco, CA

Liam Samuel

Okay! Here are the new position details based on Liam Samuel:

Key Position Details

Position Name	Sustainability Supply Chain Consultant
Job Code	010405
Job Title	Sustainability Supply Chain Consultant
Regular / Temporary	Regular
Company	Best Run
Location	Orlando, FL
Department	Product Engineering
Cost Center	25af

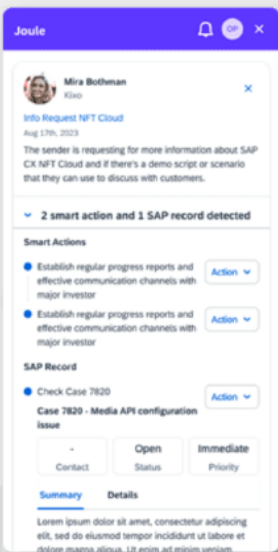
Which position detail would you like to amend? You can say something like "change location to Florida."

Say "done" to bypass this step.

Position Name	Job Code	Job Title
Regular / Temporary	Company	Location
Department	Cost Center	Done

Type or speak something...

Sales
Sales
management



Joule

Mira Bothman
Kiro

Info Request NFT Cloud
Aug 17th, 2023

The sender is requesting for more information about SAP CX NFT Cloud and if there's a demo script or scenario that they can use to discuss with customers.

2 smart action and 1 SAP record detected

Smart Actions

- Establish regular progress reports and effective communication channels with major investor
- Establish regular progress reports and effective communication channels with major investor

SAP Record

- Check Case 7820

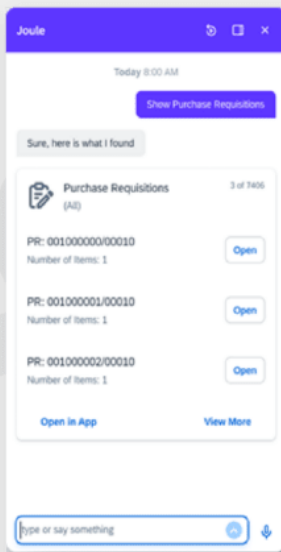
Case 7820 - Media API configuration issue

Open in App

Summary Details

>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam

Procurement
Operational
Purchaser



Joule

Today 8:00 AM

Show Purchase Requisitions

Sure, here is what I found

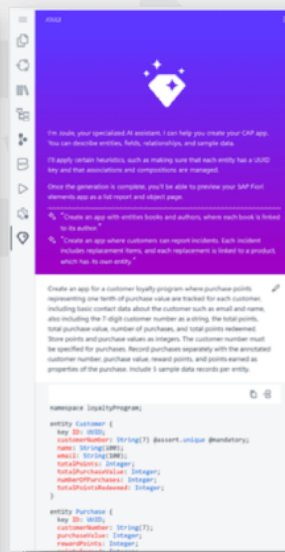
Purchase Requisitions (All) 3 of 7406

PR: 0010000001/00010	Open
Number of Items: 1	
PR: 001000001/00010	Open
Number of Items: 1	
PR: 001000002/00010	Open
Number of Items: 1	

Open in App View More

Type or say something

IT
Code
generation



Joule

Create an app

The study you specified in assistant, I can help you create your own app. You can describe entities, fields, relationships, and sample data.

It pays to learn heuristics, such as making sure that each entity has a good key and that associations and compositions are managed.

Once the generation is complete, you'll be able to preview your SAP Fiori elements app in a full report and report page.

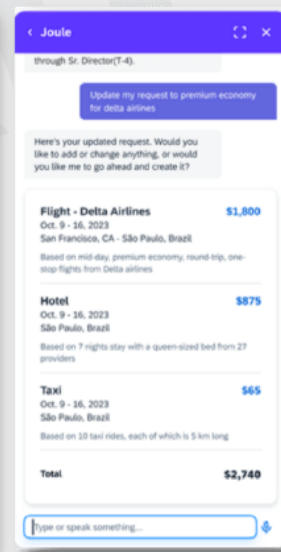
% "Create an app with entities books and authors, where each book is linked to an author."

% "Create an app where customers can report incidents. Each incident includes replacement items, and each replacement is linked to a product, which has its own entity."

```
namespace {sapui.define};
entry Customer {
  key ID: ID();
  companyName: String();
  email: String();
  phone: String();
  address: String();
  lastModifiedDate: Integer();
}
entry Purchase {
  key ID: ID();
  purchaseNumber: String();
  purchaseValue: Integer();
  purchaseDate: Integer();
}
```

Type or say something

Finance
Operations and
analytics



Joule

through Sr. Director(T-4)

Update my request to premium economy for delta airlines

Here's your updated request. Would you like to add or change anything, or would you like me to go ahead and create it?

Flight - Delta Airlines \$1,800
Oct. 9 - 16, 2023
San Francisco, CA - São Paulo, Brazil
Based on mid-day, premium economy, round trip, one-stop flights from Delta airlines

Hotel \$875
Oct. 9 - 16, 2023
São Paulo, Brazil
Based on 7 nights stay with a queen-sized bed from 27 providers

Taxi \$65
Oct. 9 - 16, 2023
São Paulo, Brazil
Based on 10 taxi rides, each of which is 5 km long

Total \$2,740

Type or speak something...

Experimentation is easy, enterprise scale is hard

over **40%**

of agentic AI projects will be
canceled by the end of 2027,
due to escalating costs,
unclear business value or
inadequate risk controls

*Gartner

June 2024

Experimentation is easy, enterprise scale is hard

95%

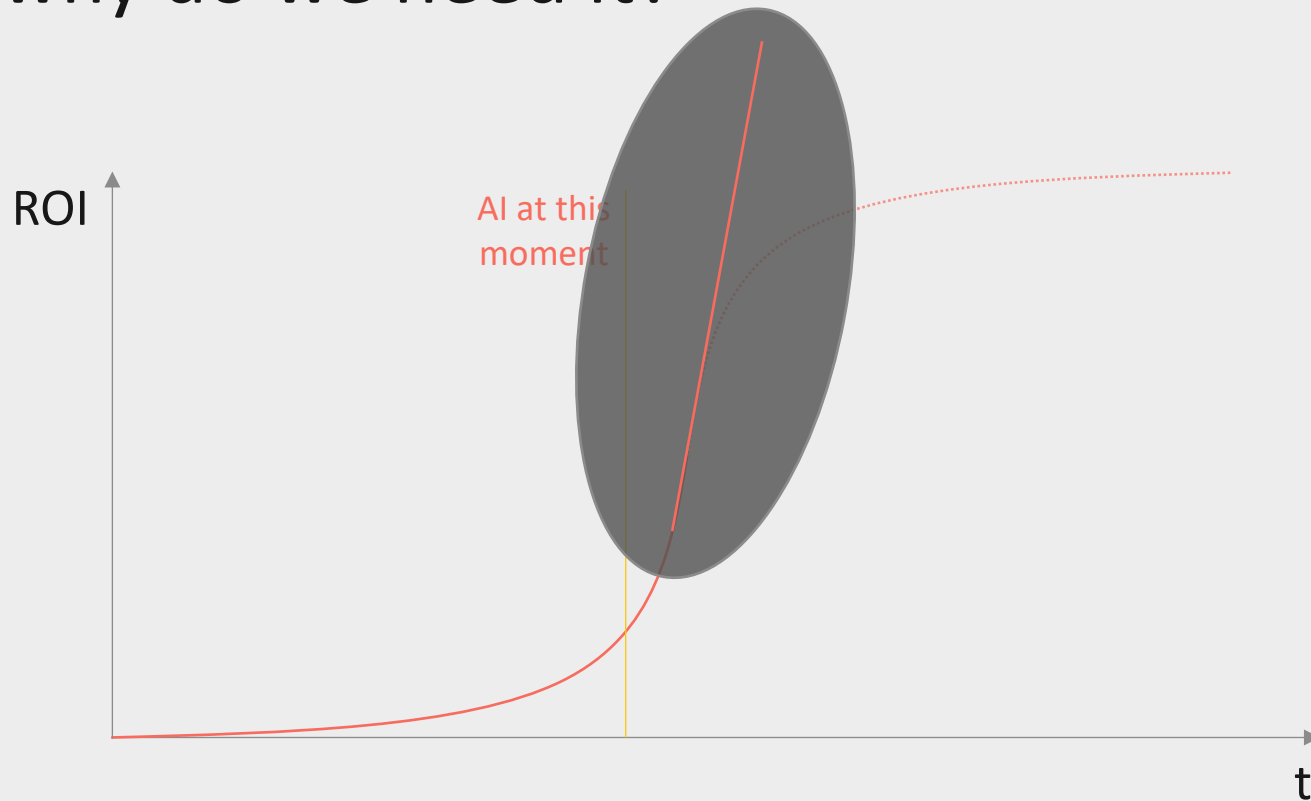
failure rate of AI pilots

Massive GenAI adoption...
but not much **transformation**



So why do we need it?

So why do we need it?



Unmet needs for Agent Development

99%+

of developers want to build agents

24%

of developers feel they have the skills for agent development

90%+

of companies are deploying or exploring agents in the next 12 months

10+

average number of tools used to create an agent for most developers

Let's get our hands dirty

What We Will Build Together

An end-to-end business process powered by Microsoft Power Platform and AI.

Built with

- Microsoft 365
- Copilot
- Power Automate
- Dataverse
- Outlook
- Approvals
- Teams



To get started with workshop, let's test the connection

Use the login credentials provided via email:

<https://make.powerapps.com/>

