



Microsoft Ignite



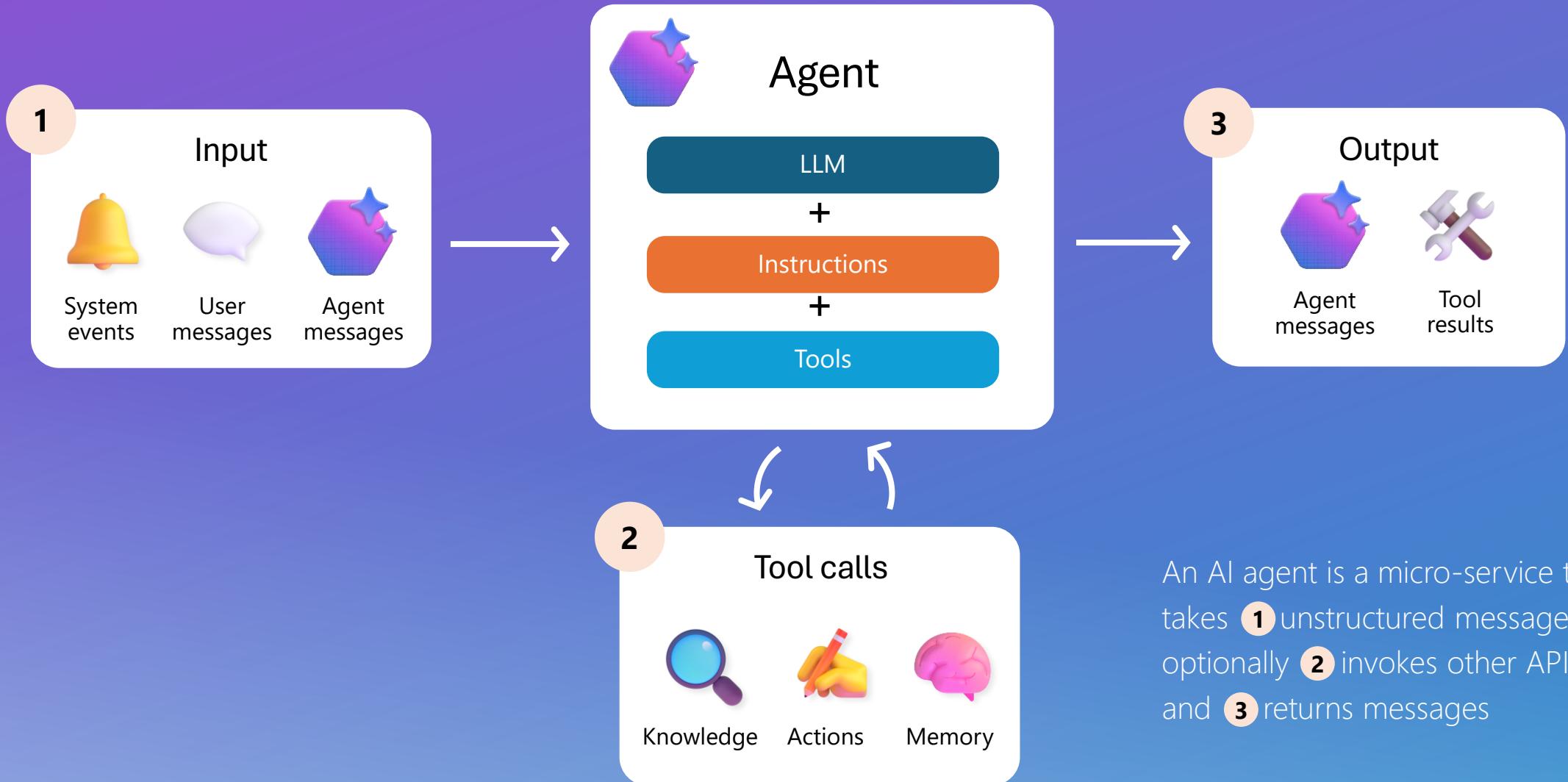


Building Agents in AI Foundry

Supreet Kaur
Sr. AI Solutions Architect

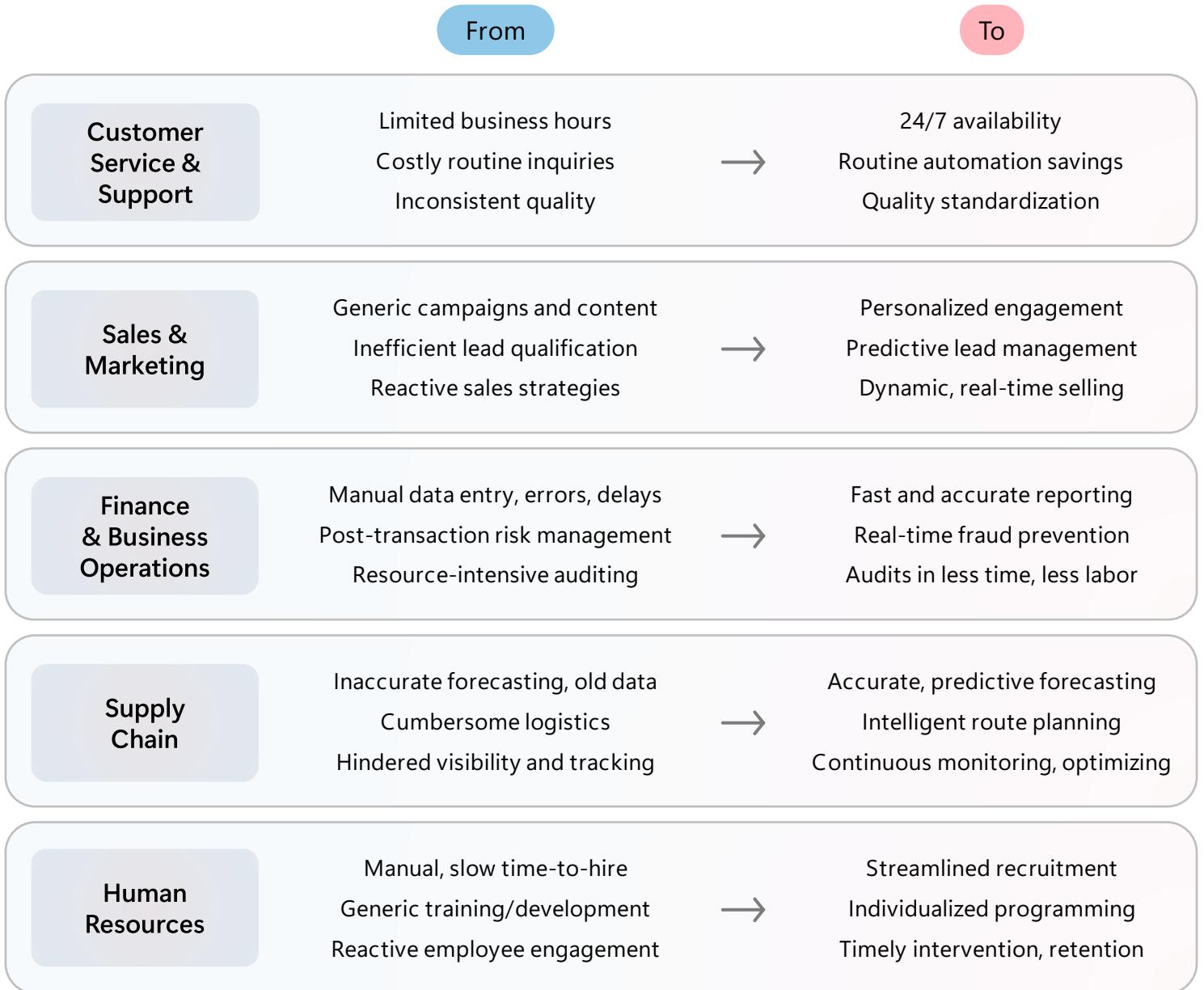


What is an AI agent?



An AI agent is a micro-service that takes **1** unstructured messages, optionally **2** invokes other APIs and **3** returns messages

Every application achieves more with AI and agents



What's ahead: AI Season 3

01

Advanced Reasoning

02

"AI only as Good as your Data"

03

Multimodel and Multimodal

04

Memory and Entitlements

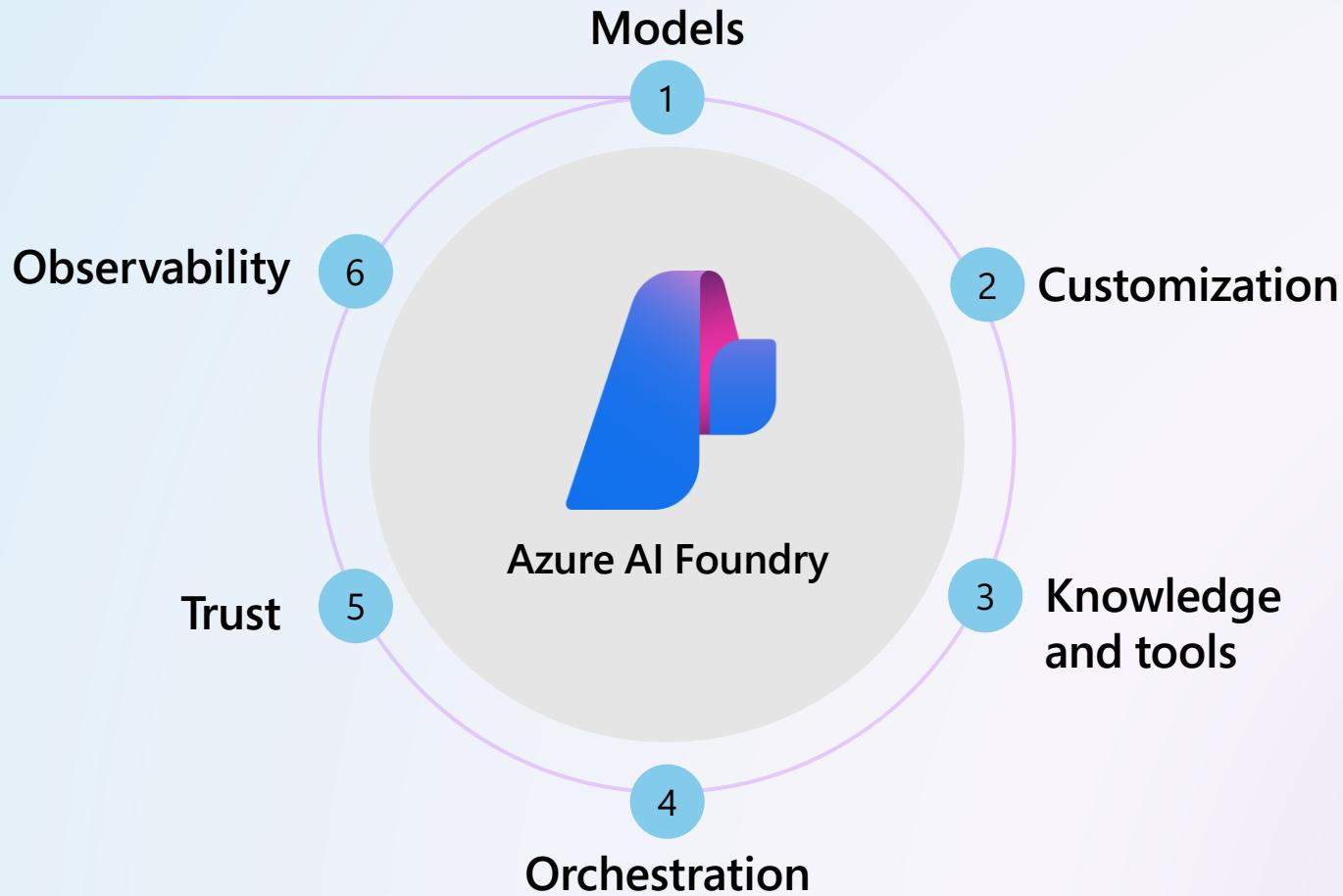
05

Agent + Multi-agents

06

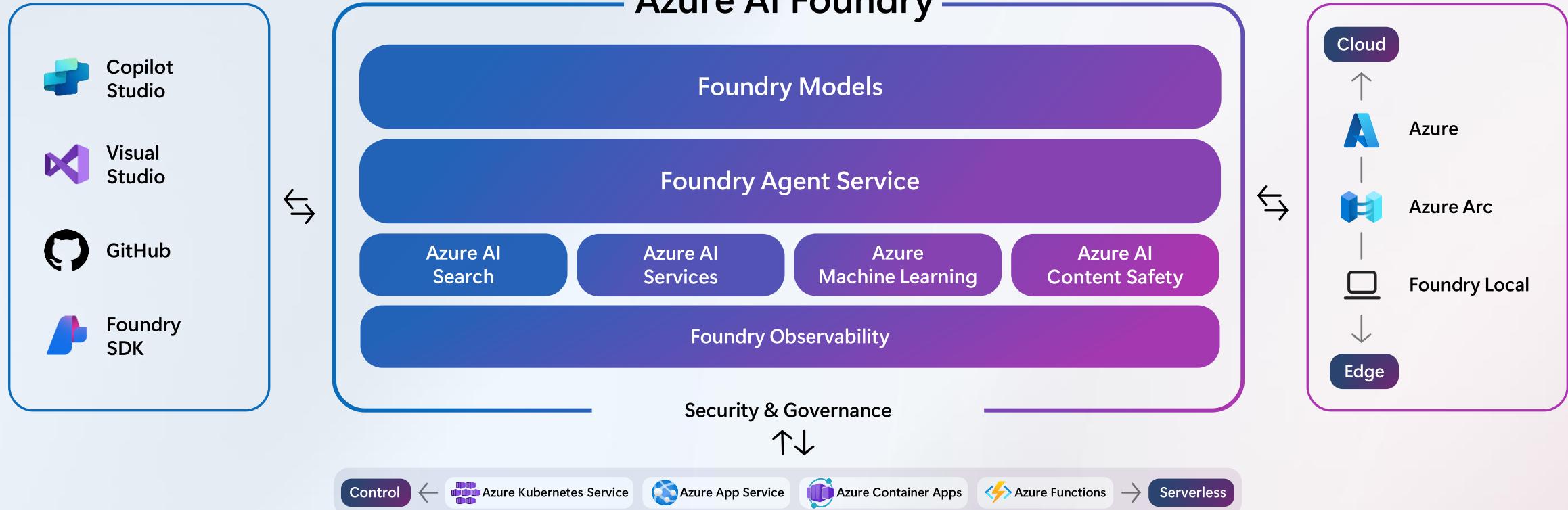
From "use-case" to reshaping every business process

Azure AI Foundry: The AI App and Agent Factory





Azure AI Foundry



Azure AI Foundry: The AI App and Agent Factory

Let's dive in



Design
with the best models



Customize
with multi-agent toolchain



Manage
AI apps with confidence

Find the best models for your AI applications

Benefits

All Azure AI Foundry Models:

- Unified access
- Scalable deployment
- Enterprise-Ready

Sold directly by Microsoft models:

- SLA & compliance
- Reserved capacity
- Cost-efficient PTU quotas



11000+ Frontier and open models
in Azure AI Foundry Models



Azure OpenAI
Model Family



DeepSeek
Model Family



xAI Grok
Model Family*



Mistral
Model Family*



Meta Llama
Model Family*



Black Forest
Labs*

Sold directly by Microsoft



Cohere
Model Family



Databricks
Model Family



Hugging Face
Collection



NVIDIA
Model Family



Nixtla
Time-Gen1 Model



Snowflake
Model Family



Phi SLM
Model Family



Stability
Model Family



Bria 2.3 Fast
Model



Deci
Model Family



NTT Data
Tsuzumi Model



Gretel Navigator
Model



Core 42
Jais Model



SDAIA
ALLaM Model

Industry models:



*coming soon

Azure AI Foundry: The AI App and Agent Factory

Let's dive in



Design
with the best models



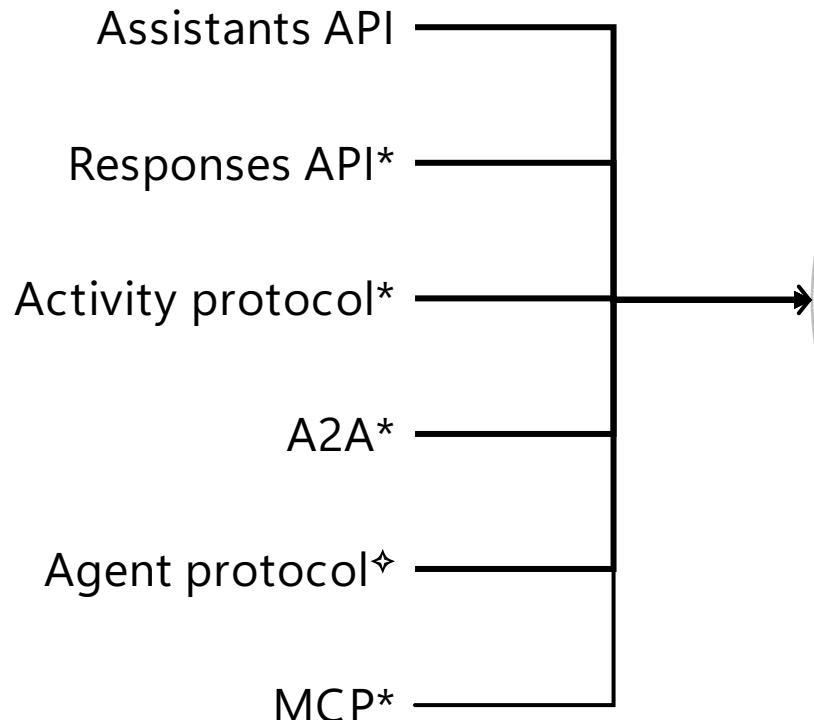
Customize
with multi-agent toolchain



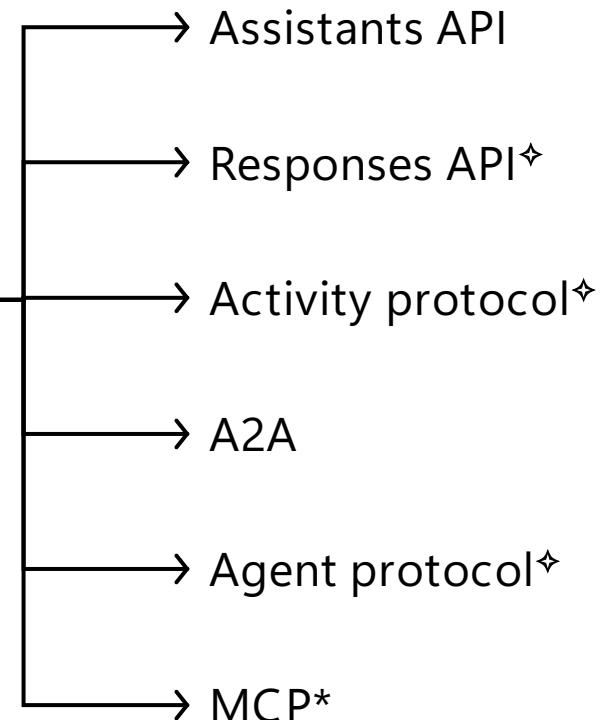
Manage
AI apps with confidence

Azure AI Foundry supports open protocols for multi-agents and connected agents

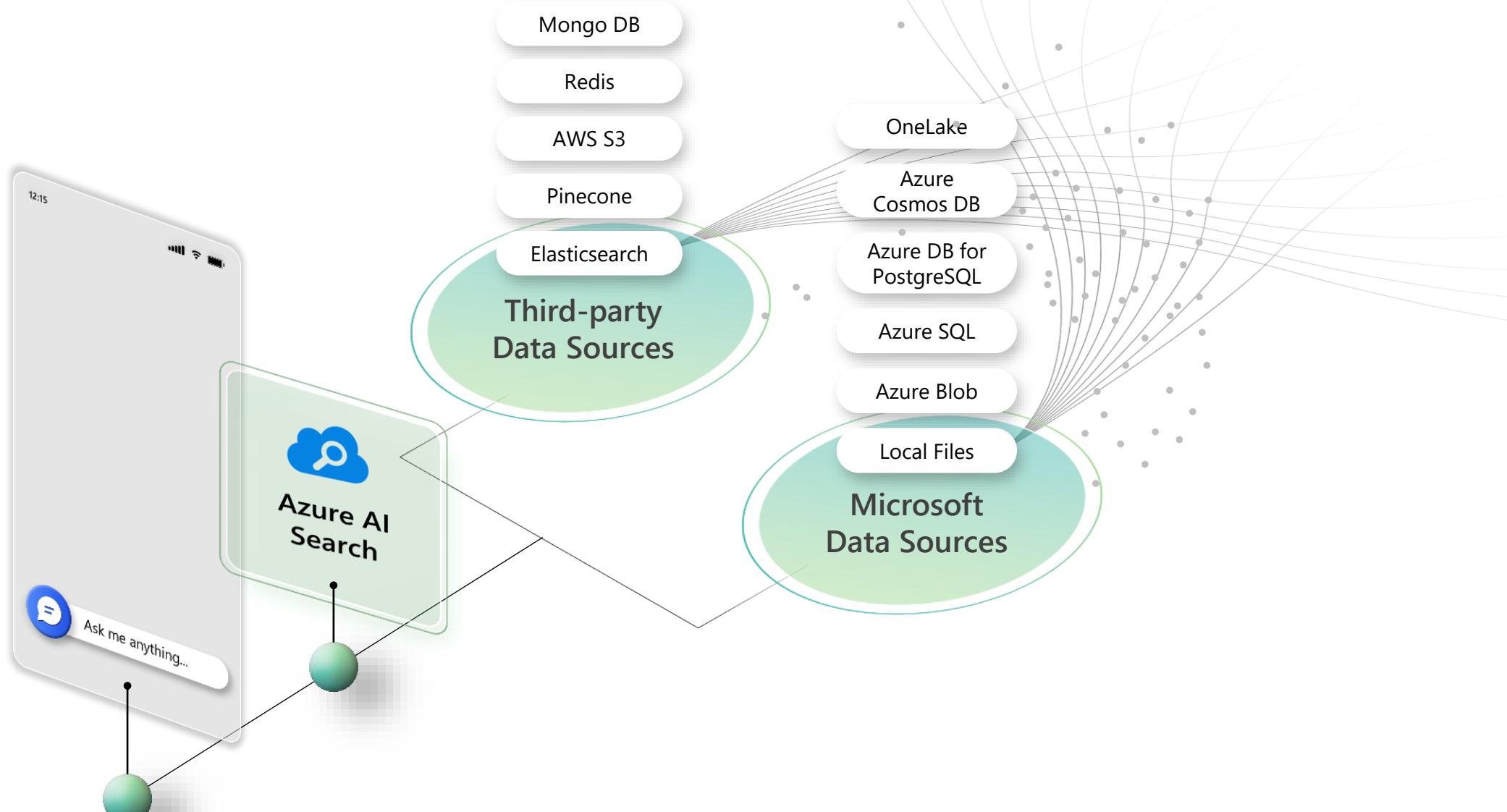
Import external agents



Expose your agent externally



Wherever your data resides, bring it to life through Azure AI Search



Azure AI Foundry: The AI App and Agent Factory

Let's dive in



Design
with the best models



Customize
with multi-agent toolchain



Manage
AI apps with confidence

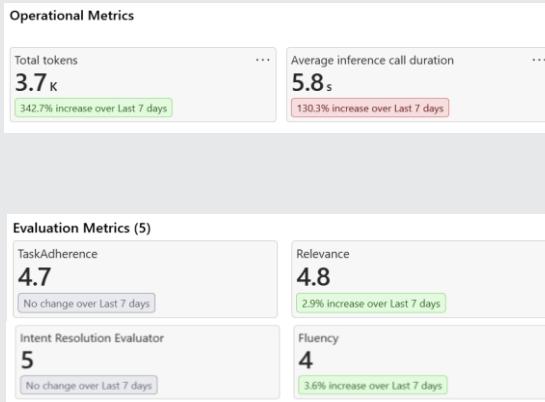
Observe, secure and govern your AI apps and agents with Azure AI Foundry and Microsoft Security ecosystem



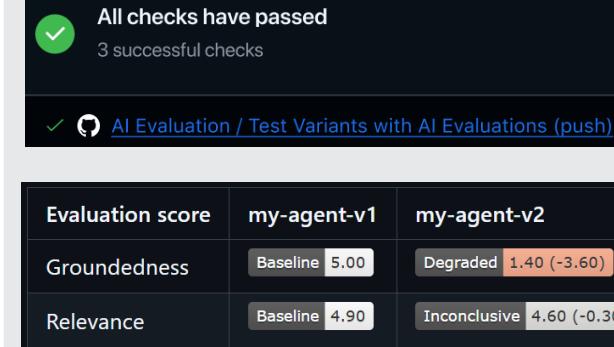
Azure AI Foundry Observability

Continuously improve and monitor your AI Agents

Balance Impact, Quality, Safety, and Cost



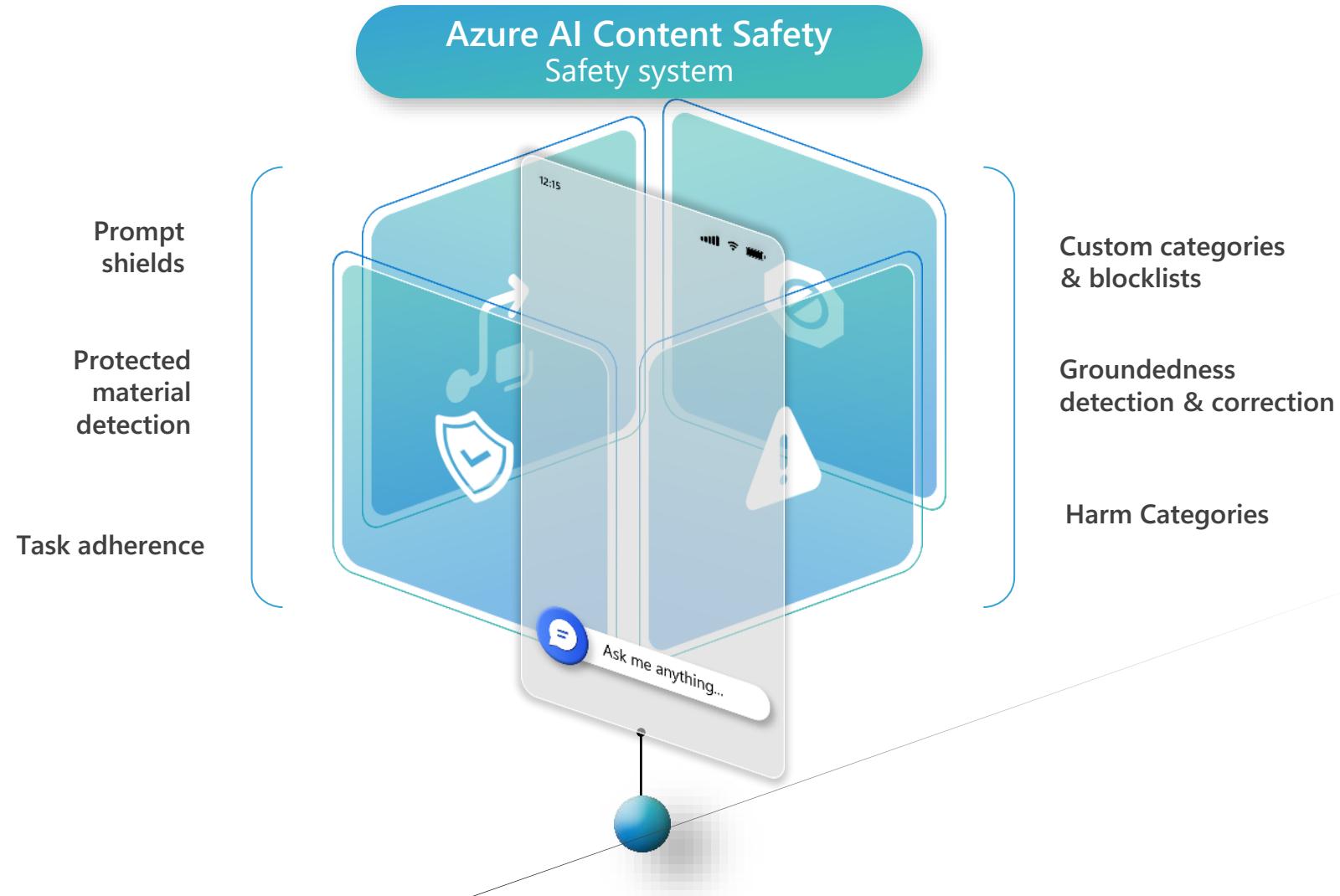
Develop with Confidence



Operate and Monitor in Production



Drive innovation with a built-in, comprehensive safety system





Azure AI Foundry

AI Agent Ecosystem

Authoring Tools

Visual Studio

GitHub

Knowledge



Microsoft Fabric



Azure Cosmos DB



SharePoint



Microsoft Graph



Azure AI Search



Microsoft Bing

Enterprise Trust

VNet deployments

OBO Auth

BYO-resources

Managed Identities

Agent catalog

Ready-made agents to kickstart your agent workforce

Agent frameworks

Client SDKs for enterprise and production agentic systems

Agent tools

Orchestration

Channels

Foundry Agent Service

Deploy and manage agents with fully-managed runtime

Multi-agent workflows

Built-in threads

Long-term memory

Evaluation

Tracing & Monitoring

Governance + Safety

Foundry Models



OpenAI



Llama



Grok



Flux



Mistral



Phi



Cohere



Paige

stability.ai Stability

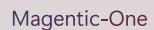
Hugging Face

Industry Models

Foundry Labs



Muse



Magentic-One



Aurora

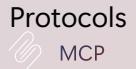


OmniParser

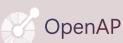
Open Ecosystem



A2A



MCP



OpenAPI

Connectors



Google VertexAI



Amazon Bedrock



LangChain



CrewAI



ElasticSearch



Pinecone



Logic Apps

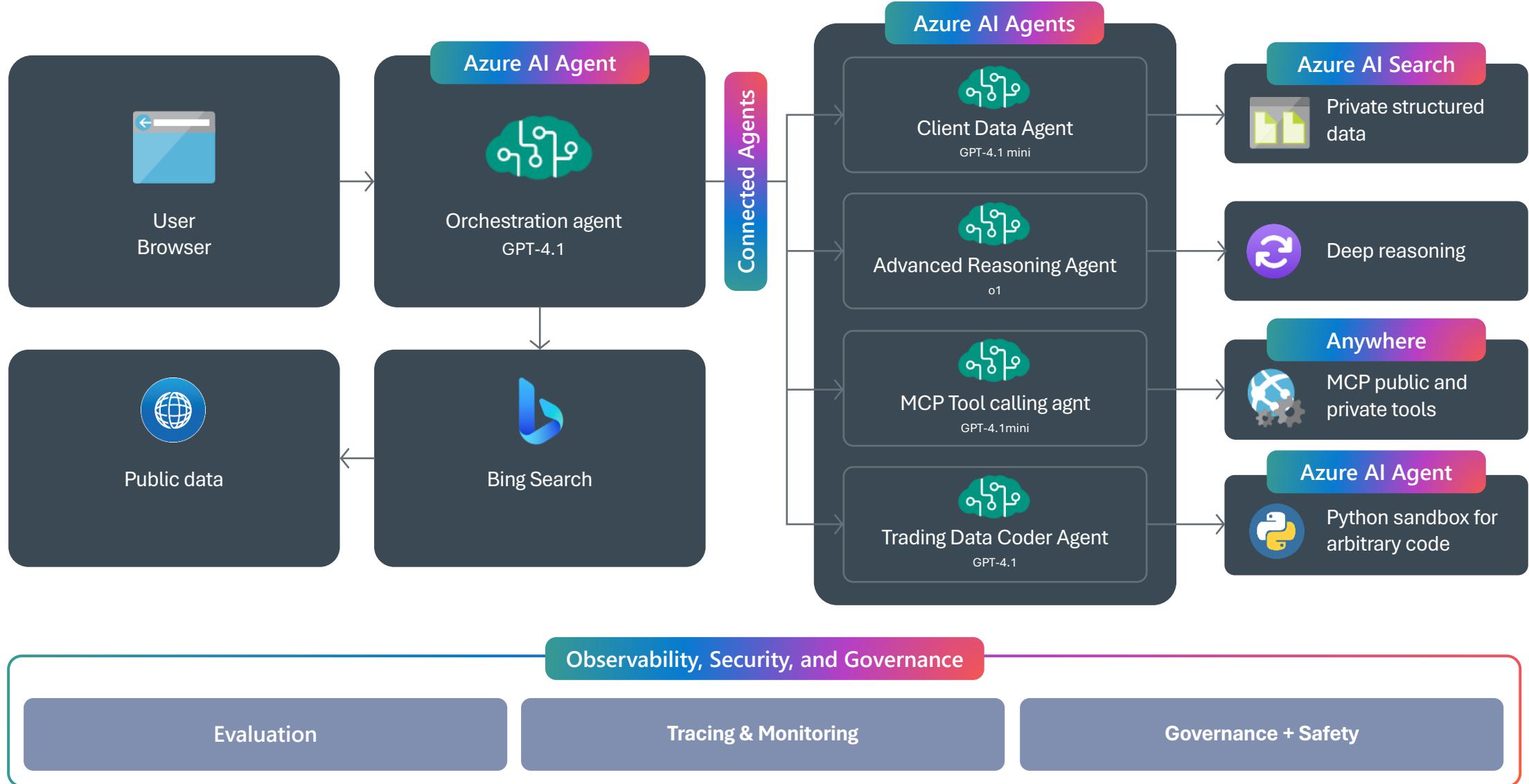


Azure Functions

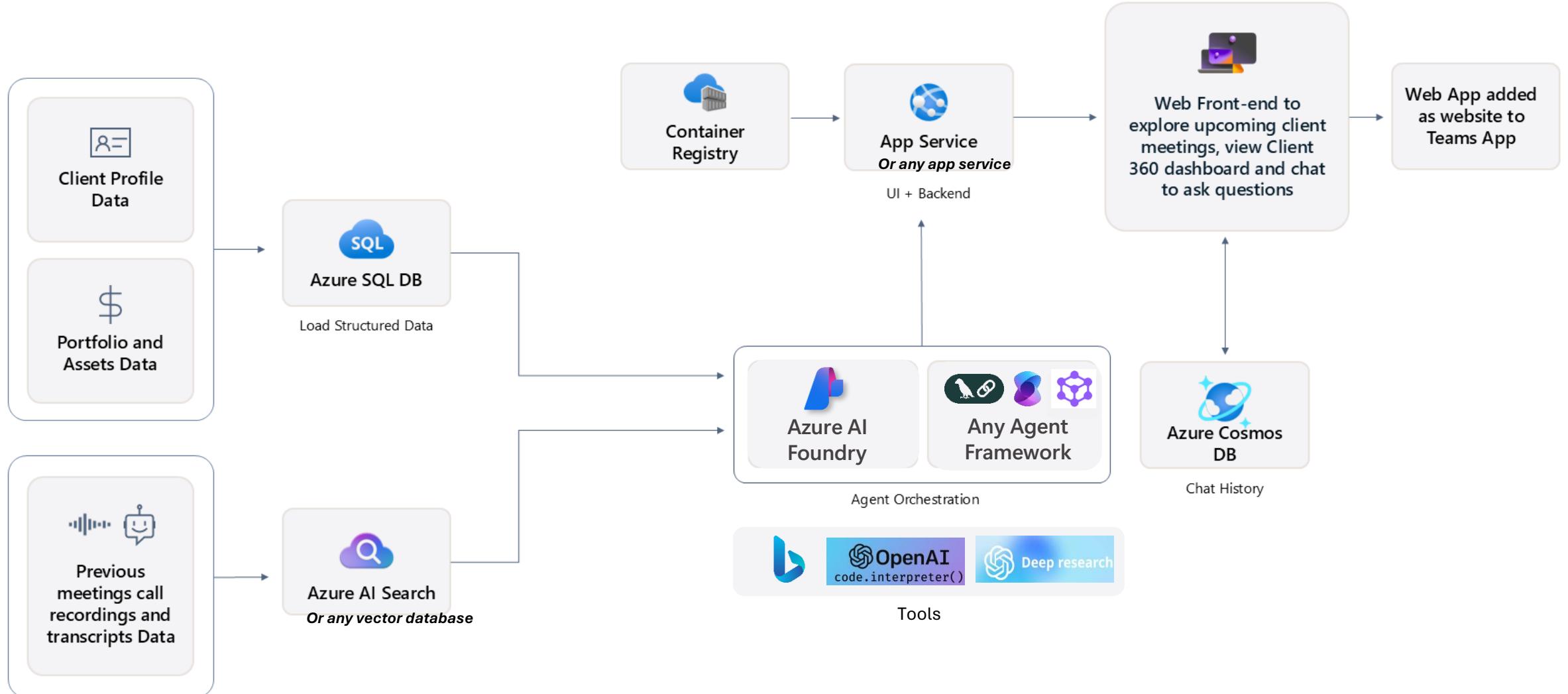
Demo



Portfolio Risk Assessment – Architecture



Architecture: Meeting Preparation Agent



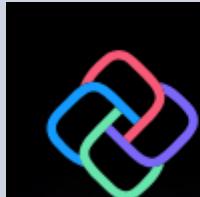
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Your Company!**

Please share your event and session feedback!



<http://aka.ms/MSIgniteNYCSurvey>



<http://aka.ms/MSIgniteNYCSessionsSurvey>

Day 1 – Nov 17

8:00am – 8:45am	 Check In & Breakfast 
8:45am – 9:00am	Kickoff & Welcome
9:00am – 9:30am	Generative Pages in Power Apps
9:30am – 10:00am	Lights, Camera, Akka! The Actor Model & Agentic AI Orchestra
10:00am – 10:30am	How to create Moonshot solutions with AI
10:30am – 10:45am	 Break 
10:45am – 11:15am	Elevating Construction: Real-Time Optimization with Azure Digital Twins and AI
11:15am – 11:45am	Transforming Facility, Network and Organization Management with Visio and Power BI
11:45am – 12:45pm	 Lunch 
12:45pm – 1:15pm	Adventures in AI
1:15pm – 1:45pm	Building Agents in AI Foundry!
1:45pm – 2:15pm	What's new with Azure Load Balancer, NAT Gateway, and Public IP Addresses
2:15pm – 2:30pm	  Break
2:30pm – 3:00pm	.NET Apps Everywhere!
3:00pm – 3:30pm	Accelerating Web Application Development with AI-Powered Tools: From Design to Deployment
3:30pm – 4:00pm	Agentic AI: Strategies for Success and Paths to Failure
4:00pm – 4:30pm	How (and why) Microsoft's upstream teams engage with multi-stakeholder open source projects
4:30pm – 5:00pm	 Networking / Mingle 

Day 2 – Nov 18

8:00am – 9:00am	 Check In & Breakfast 
9:00am – 9:30am	Leveling Up Agents: Copilot Studio for Enterprise Solutions
9:30am – 10:00am	RAG Hero: Fast-Track Vector Search in .NET
10:00am – 10:30am	Building Resilient Systems
10:30am – 11:00am	Agentic Orchestration: Building Scalable, Open Source Automation with A2A, MCP and RAG Patterns
11:00am – 12:00pm	 Lunch 
12:00pm – 2:00pm	 Keynote Watch 
2:00pm – 3:00pm	 MVP Panel 
3:00pm – 5:00pm	 Networking / Mingle 