



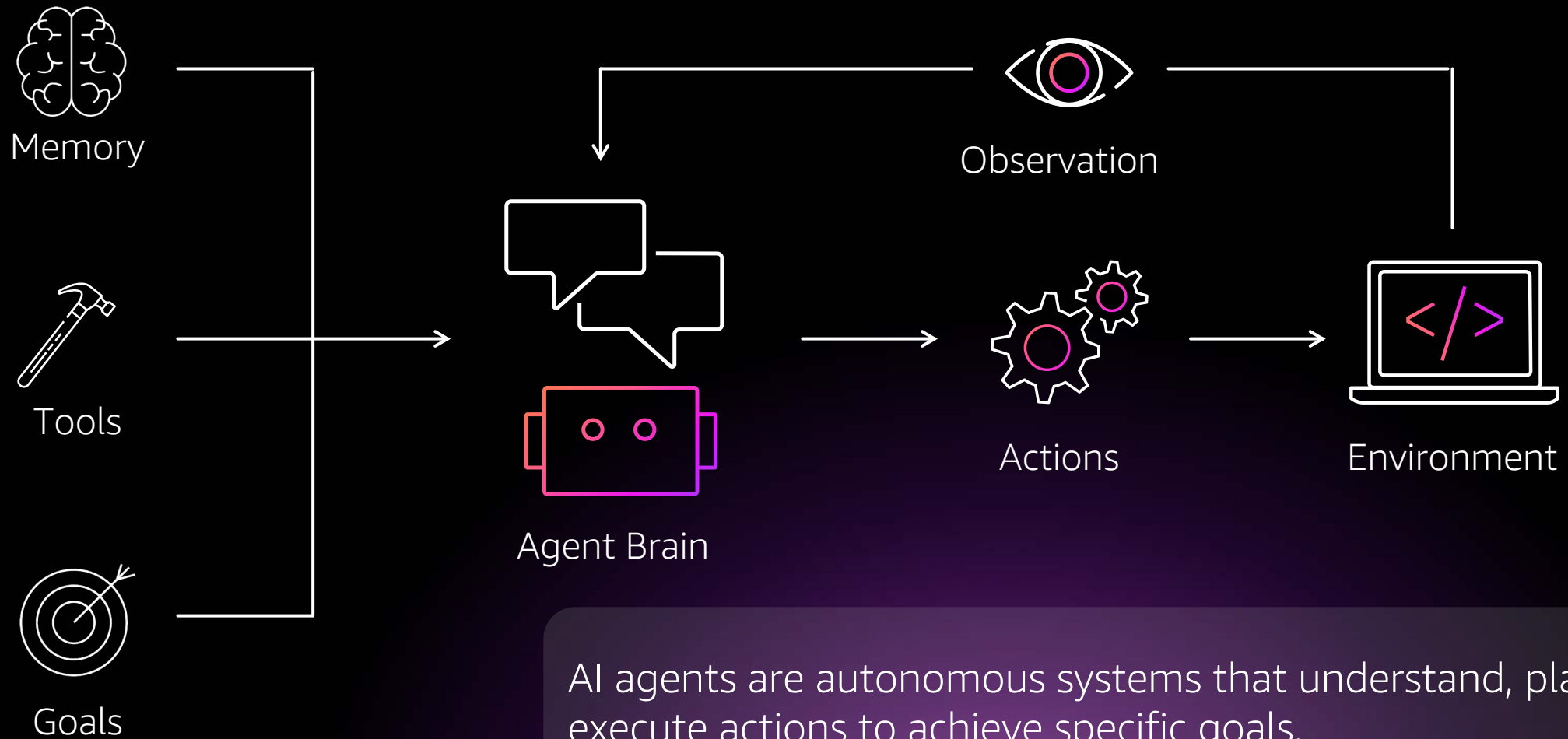
# Amazon Bedrock Agents

## Beyond Chatbots: How Amazon Bedrock Agents Drive Enterprise AI

Samuel Baruffi

Principal Solutions Architect  
Amazon Web Services (AWS)

# What is agentic AI?



AI agents are autonomous systems that understand, plan, and execute actions to achieve specific goals.

# Enterprises are doubling down on agents

33%

of enterprise software apps will include agentic AI by 2028, up from less than 1% in 2024.

Gartner, "Top strategic Technology Trends for 2025," October, 2024.

15%

of day-to-day work decisions will be made autonomously through agentic AI by 2028.

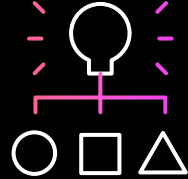
Gartner, "Top Strategic Technology Trends: agentic AI – The evolution of Experience" February 2025

# Evolution of Agentic AI



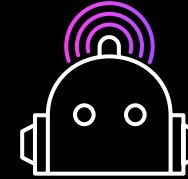
## SIMPLE ASSISTANTS

- Basic query responses & actions
- Single step tasks
- Model as Tool caller



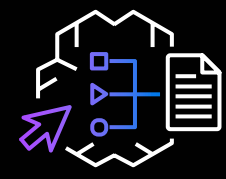
## DETERMINISTIC AGENTS

- Strict procedure adherence
- Plan is predetermined
- Model as Flow Router



## AUTONOMOUS AGENTS

- Run time planning
- Multistep tasks
- **Expanded toolset – Computer/Browser**
- **Mimic human actions**

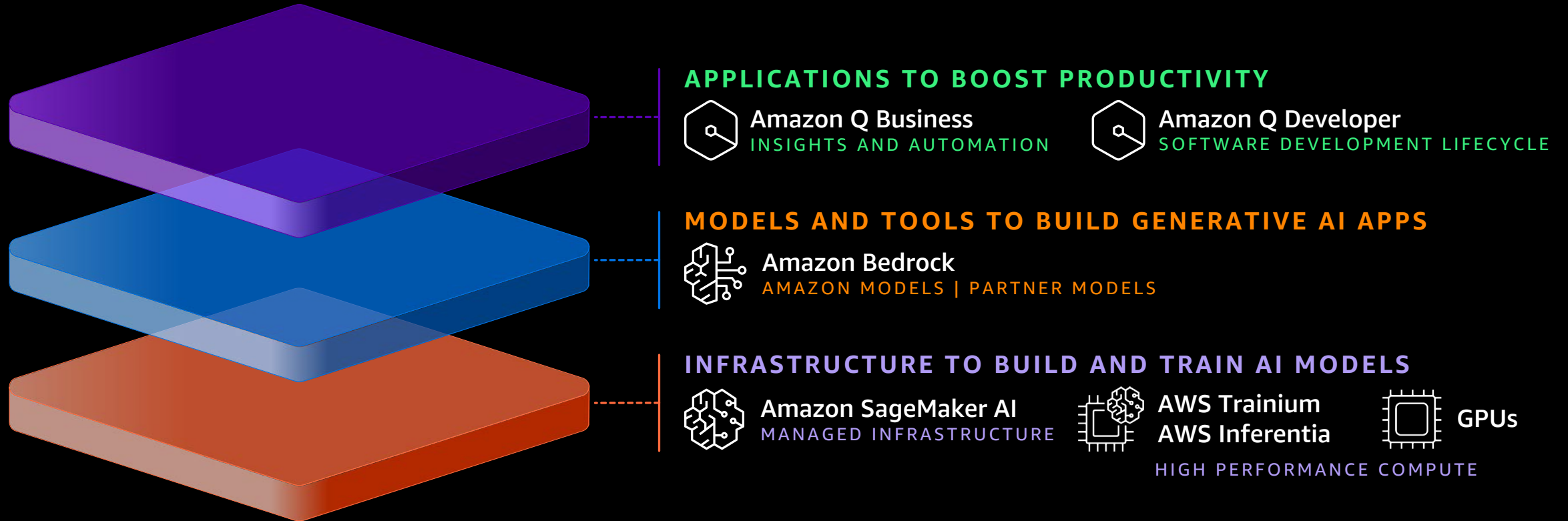


## AGENTIC VIRTUAL WORKERS

- Multi-agent coordination
- Cross Org boundaries
- **Long running systems**
- **Mimic human teams**

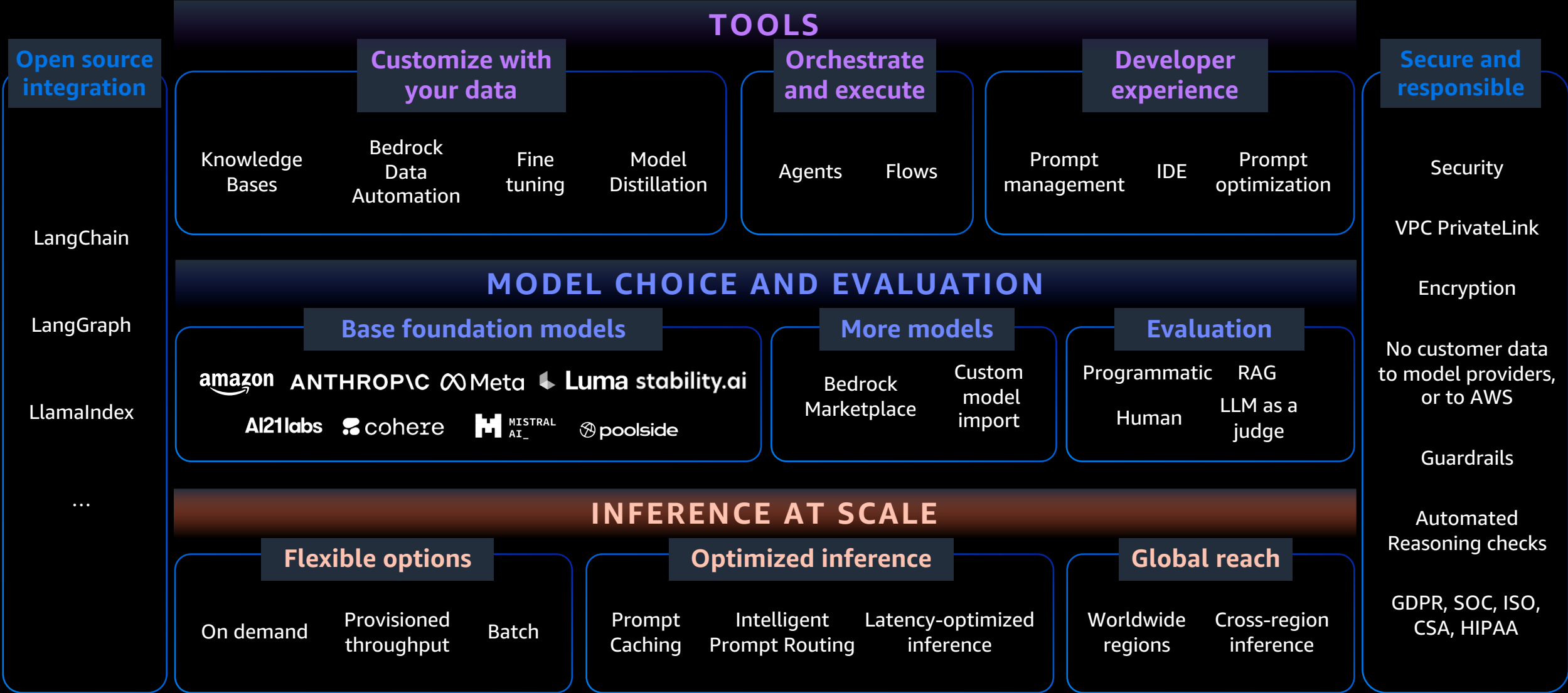
———— INCREASING AUTONOMY AND BUSINESS IMPACT ————→

# AWS Generative AI Stack



# Amazon Bedrock

THE EASIEST AND FASTEST WAY TO BUILD AND SCALE GENERATIVE AI APPLICATIONS



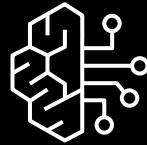
# AWS offers a broad choice for deploying agents

## SPECIALIZED



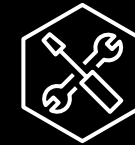
Amazon Q agents for enterprise productivity and workflows

## FULLY-MANAGED



Amazon Bedrock agents with built-in FM-powered orchestration

## DIY



for expert developers using open-source frameworks

# Amazon Bedrock Agents





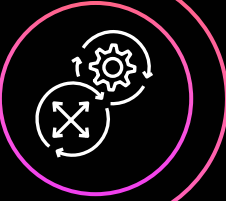
# The reality of building production-ready AI agents

## Development Barriers



- Rapidly evolving technology stack
- **Team learning curve**
- **Production readiness requirements**

## Operational Complexity



- Multiple AI agents at **Scale**
- Complex workflow orchestration
- Collaborate across lines of businesses

## AgentOps Requirements



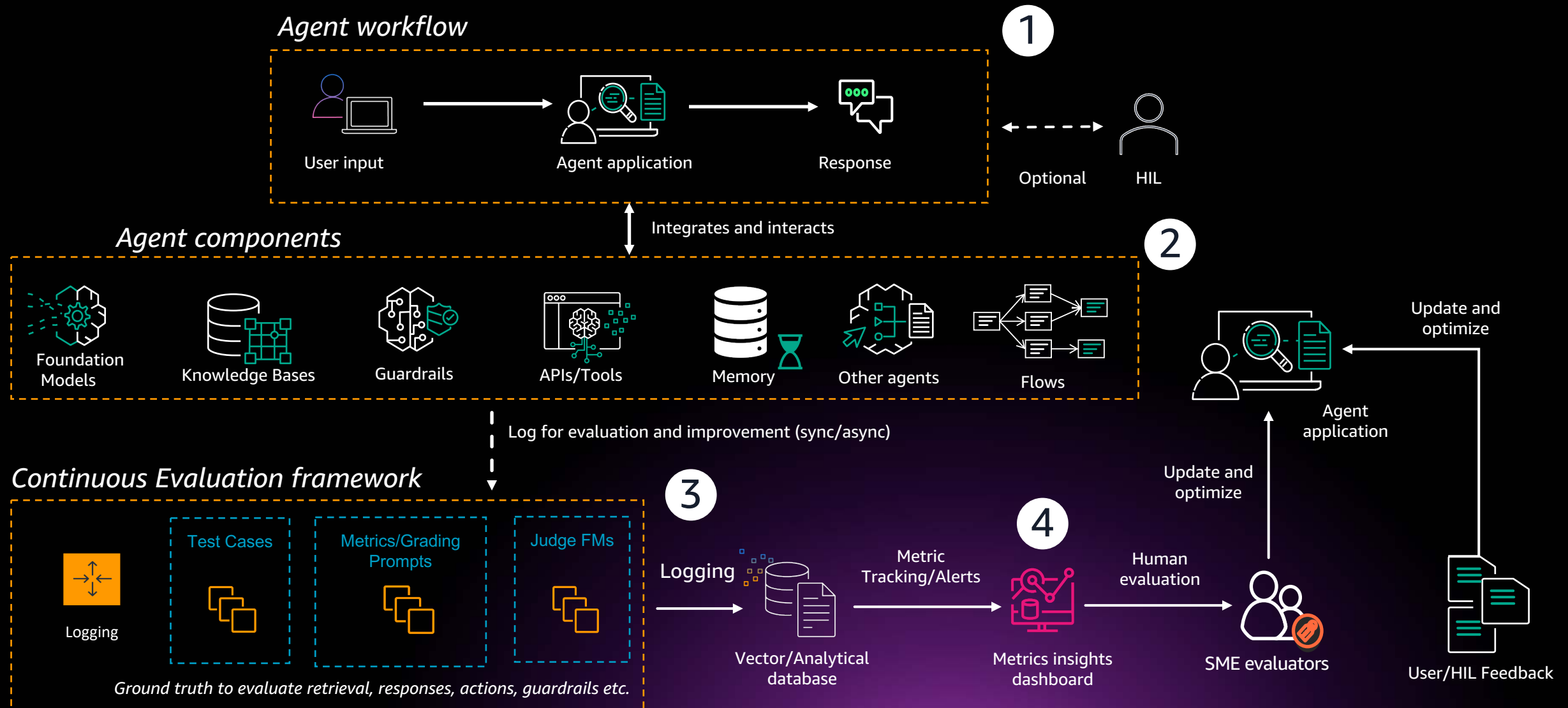
- Governance needs
- Security & Compliance
- Observability & Evaluation

## Innovation Hurdles



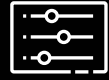
- Technology will evolve for years
- Framework integration complexity
- New model and OSS framework releases

# What does an agentic system look like?



# Amazon Bedrock Agents

Managed capabilities



Choice of foundation models and reason techniques



Tools: Action groups, knowledge bases, code interpreter, and Flows



Memory management: session state and long-term retention



Multi-agent collaboration for complex workflows



Comprehensive trace, debug, and observability



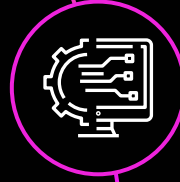
Built-in guardrails, security, and compliance controls

# Amazon Bedrock Agents multi-agent collaboration

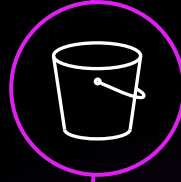
Scaling agentic experiences



Easily assemble agents and knowledge bases



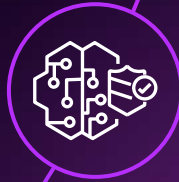
Plan and execute complex tasks across agents



Unify conversations across agents  
with built-in intent classification

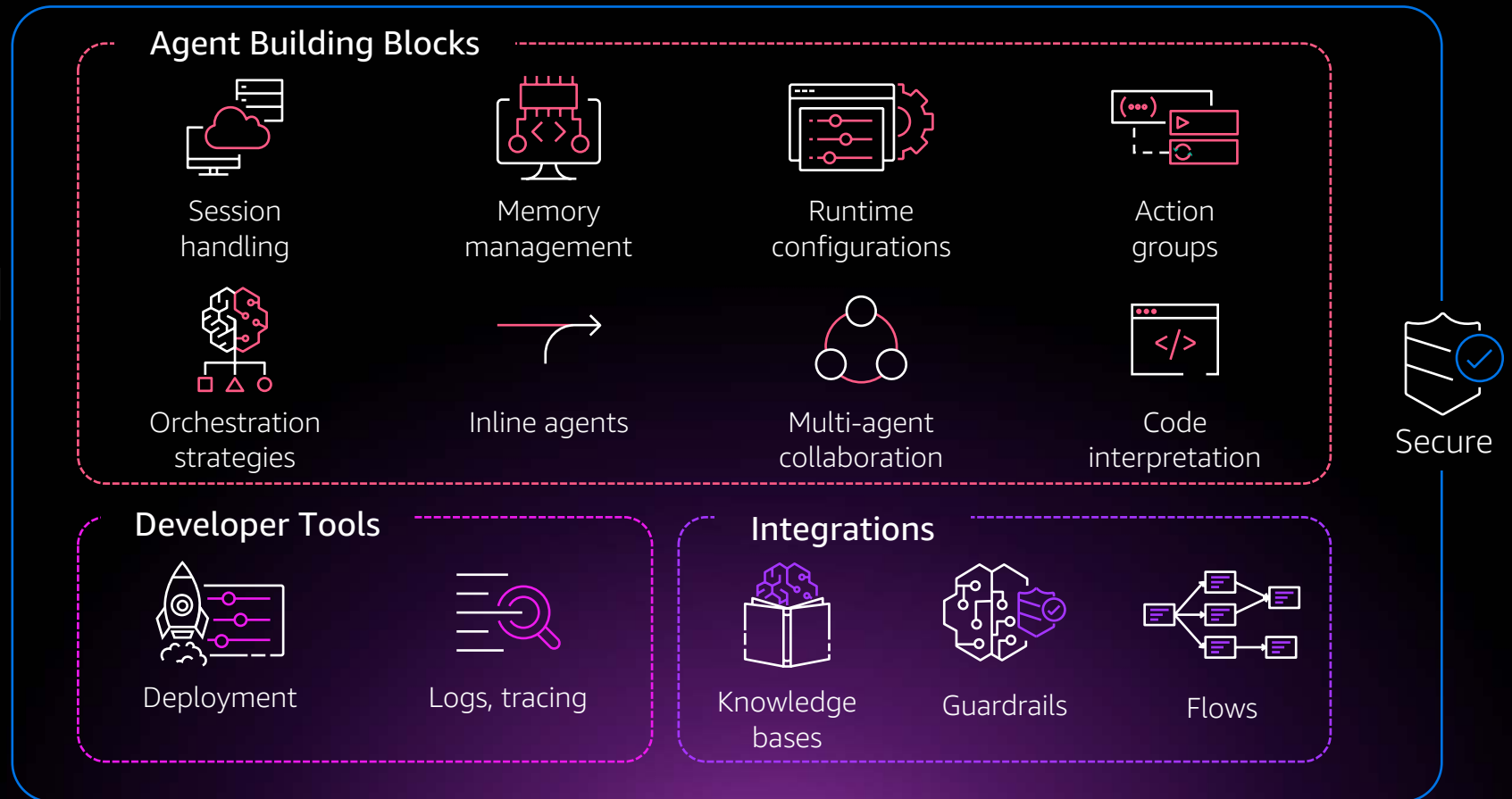
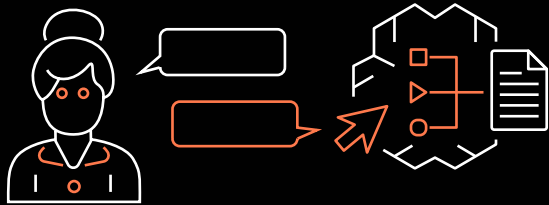


Observability across multi-agent flows



Guardrails, security, and privacy

# Enabling developers to build and scale reliable agents



# Model Context Protocol (MCP)

## What is MCP?

A standardized way for models to share and understand context with each other and connect to external data sources and tools, enabling more context-aware applications.

## How Amazon Bedrock Agents supports MCP:

- Use Amazon Bedrock Inline Agent SDK to build MCP clients
- Add your MCP servers as Action Groups in Amazon Bedrock Agents
- Enables connecting agents to external tools and data sources via MCP servers
- Supports passing information between models and tools in multi-step workflows

# Start building with **Amazon Bedrock Agents!**



Explore [Amazon Bedrock Agents](#) capabilities

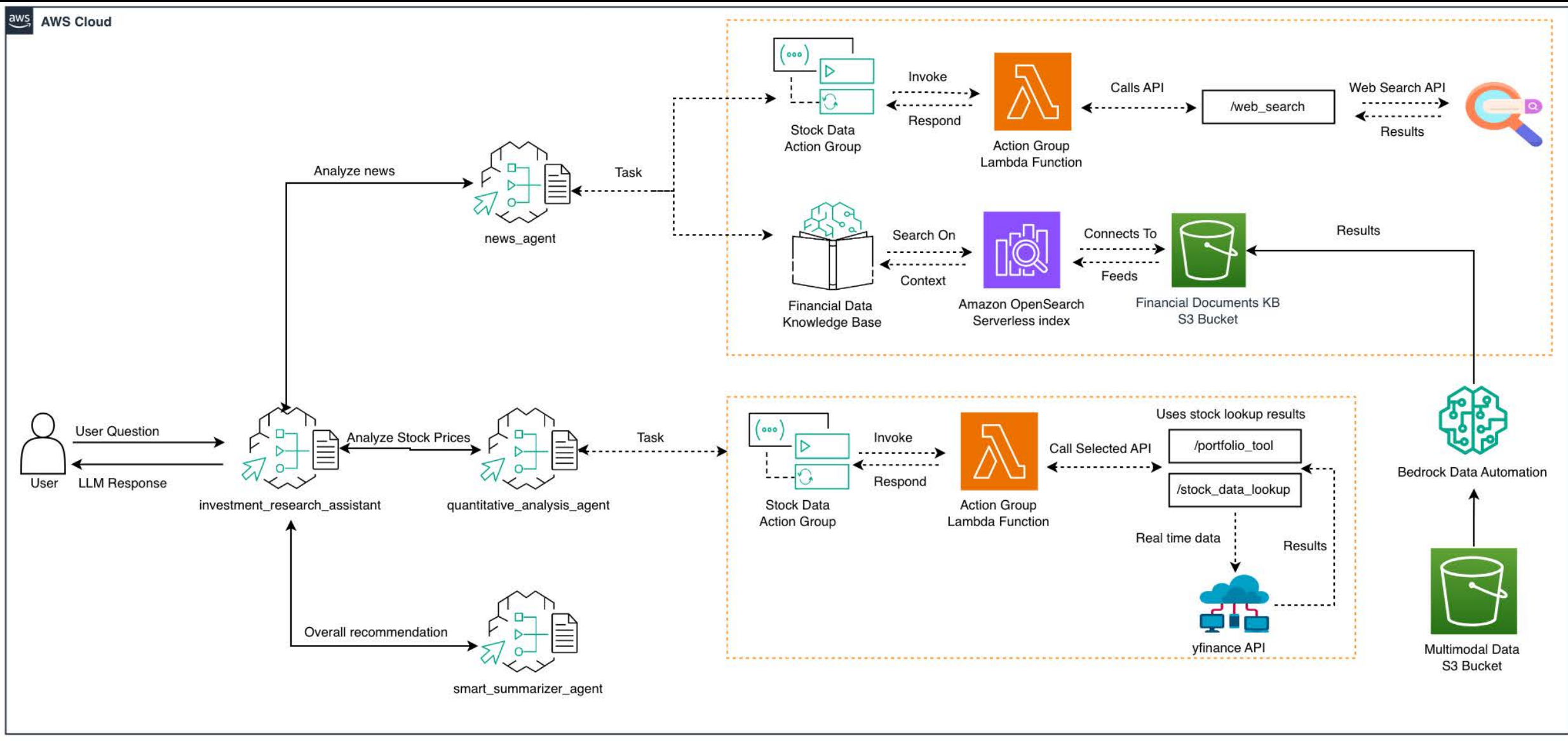


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[Amazon Bedrock Agents](#)

# Investment Research Agent – Demo Architecture







# DEMO



# Thank you!