

ORACLE

Agentic AI in the Enterprise

OCI Enterprise Agents

Pank Sharma

Director AI COE

May, 2026

The enterprise shift: AI moves from answering to doing

Agentic AI turns intelligence into accountable execution across systems.

Passive AI

- Answers questions
- Drafts content
- Summarizes knowledge
- Leaves handoffs to people

Agentic AI

- Plans toward a goal
- Uses tools and memory
- Executes across systems
- Verifies and reports outcomes



Enterprise value = trusted work completion with visible control.

Challenges of building production-ready AI Agents

Go beyond traditional software or workflow automation

CHALLENGES:

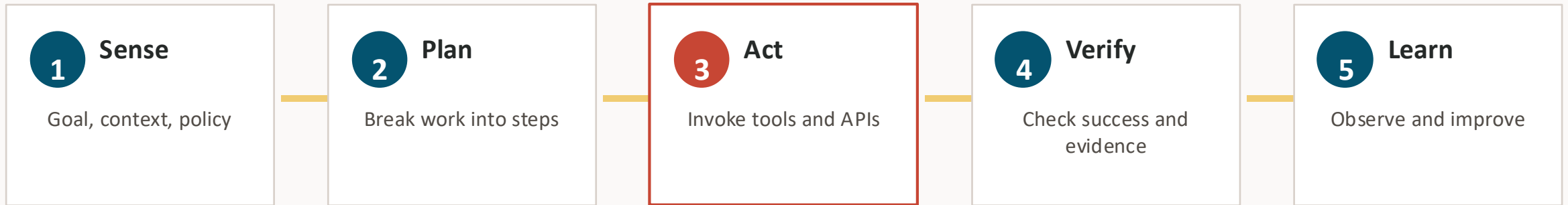
- x Coordinating action
- x Confirming success
- x Handling errors
- x Maintaining audit trails

RESULT IN:

- x Brittle integrations
- x Rigid workflows
- x Opaque governance
- x Inflexible orchestration

What makes an AI system agentic?

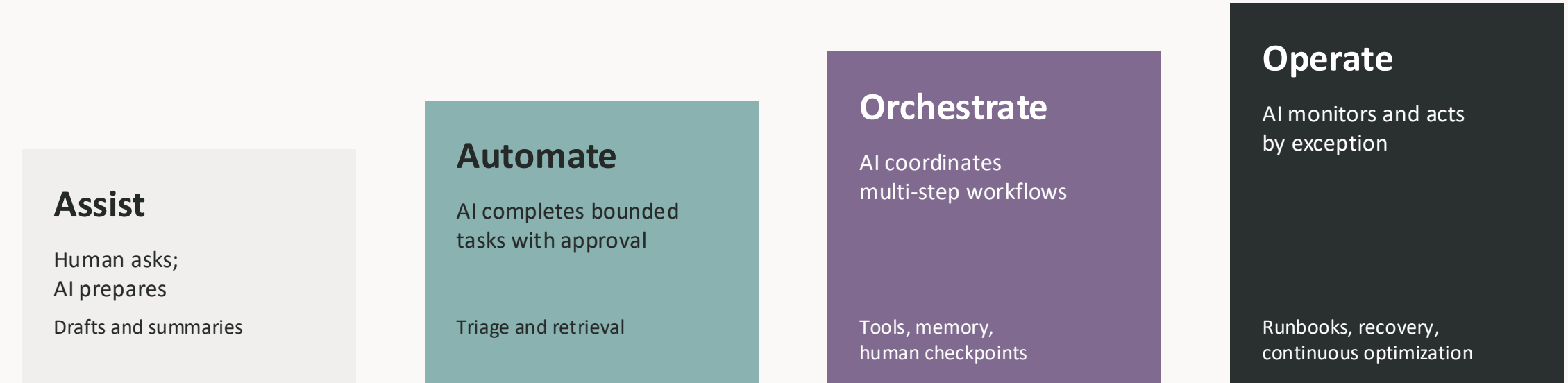
A goal-driven loop: reason, choose tools, act, verify, and improve.



Enterprise agents are productive only when the loop is bounded by policy, identity, data access, and observable outcomes.

Adoption path: move autonomy one boundary at a time

Scale ambition by making controls, ownership, and evidence stronger at each step.



Autonomy increases only as guardrails, evaluation, and observability become explicit.

OCI AI Platform Agents Lifecycle

01 IDEATE & DESIGN:
Identify key business problems and define how AI agents can address them, ensuring objectives align with organizational needs.

02 BUILD:
Develop the AI agent's architecture, core logic, and integrations, focusing on scalability, security, and compliance from the outset.

03 TEST:
Validate agent performance, accuracy, and reliability in real-world scenarios using robust test data and evaluation criteria.

04 DEPLOY:
Implement the AI agent within the chosen environment, following best practices around access, security, and compliance.

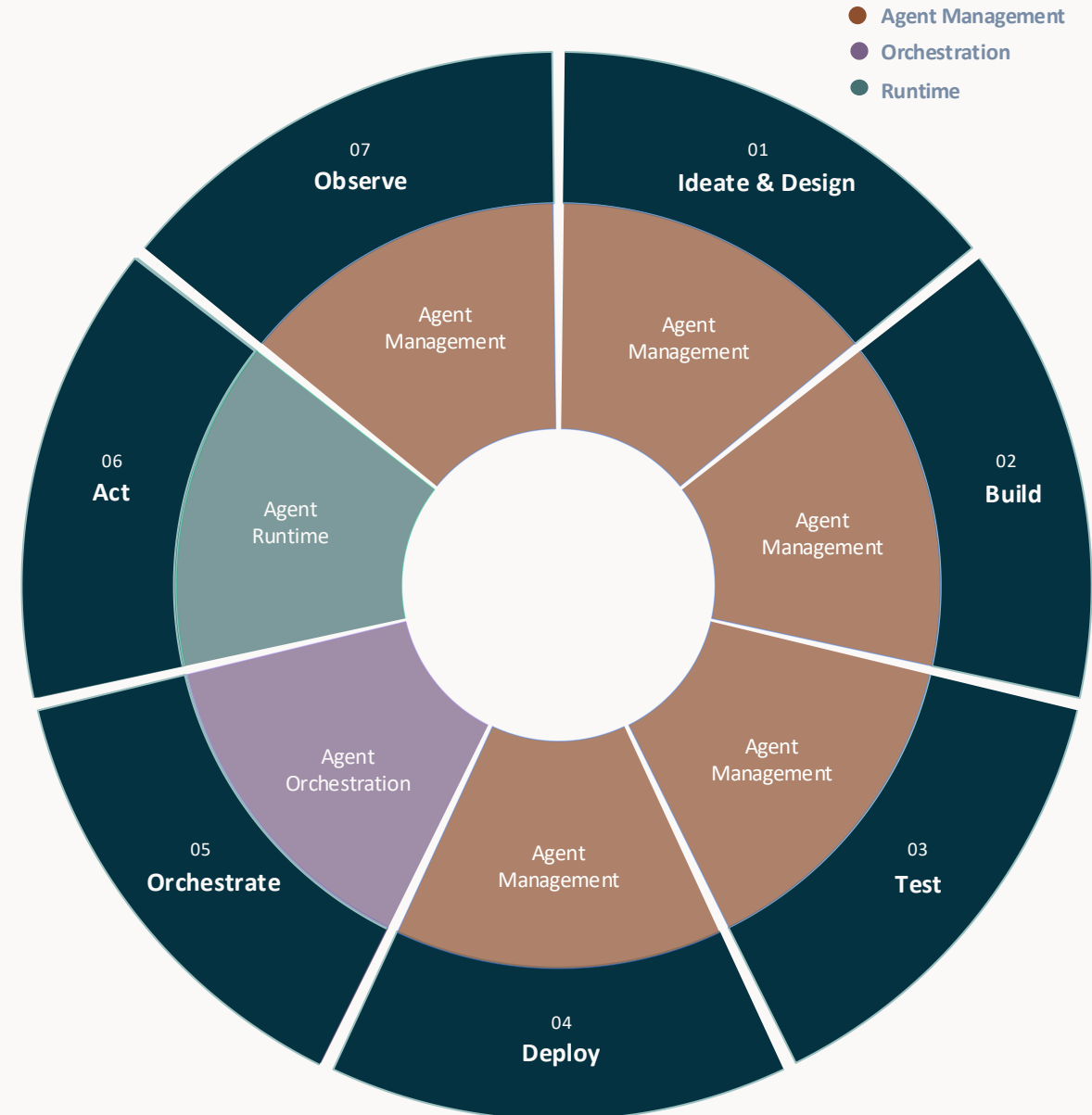
05 ORCHESTRATE:
Coordinate how multiple agents or services work together, optimizing workflows for seamless automation and communication.

06 ACT:
The agent executes tasks by invoking tools, querying memory, and taking real-world actions.

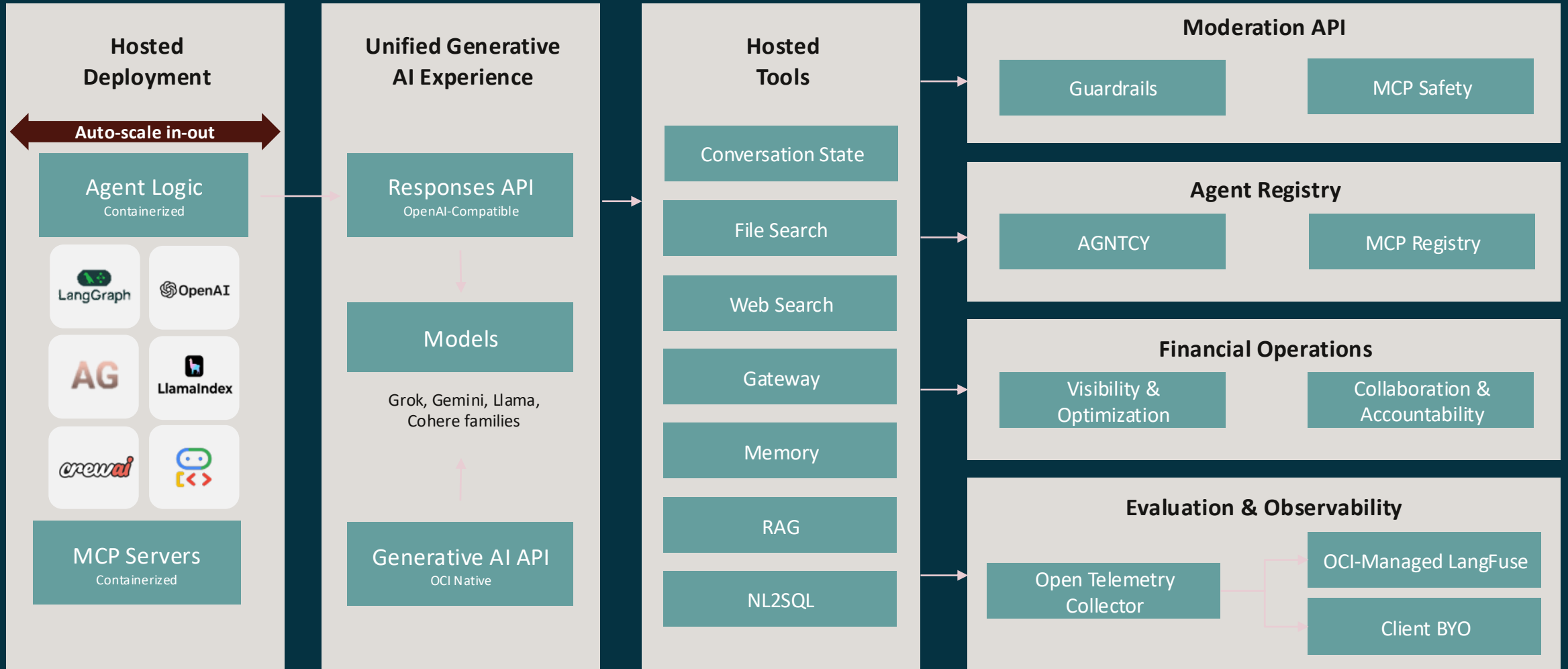
07 OBSERVE:
Continuously track agent performance for ongoing improvement, troubleshooting, and risk mitigation.



OCI AI Platform Agents Lifecycle



Building agentic workflows with OCI Enterprise AI Agents



Three decisions determine whether agents scale

The platform story is easier when management, orchestration, and runtime have separate owners.

Manage agents

How do we author, test, deploy, observe, and version agents?

1

Orchestrate work

How do agents coordinate frameworks, protocols, tools, and people?

2

Run actions

Where do tools, memory, APIs, routing, and execution actually happen?

3

OCI Enterprise AI Agents: Agent Management

Hosted deployment options

Build & Self-Host

Maximum flexibility

- Define agent behavior locally
- Use LangChain, LangGraph, AutoGen, OpenAI Agent SDK
- Maintain local tool definitions and context
- OCI as inference and orchestration backend
- No proprietary abstractions required

Seamless Deployment

Operational simplicity

- CLI, API, and UI-driven deployment
- No infrastructure setup or tuning
- Clear dev/staging/production separation
- Fast iteration across environments
- For teams focused on business problems

Fully Hosted Agents

Zero operational overhead

- Operated, scaled, and secured by OCI
- Enterprise governance by default
- No customer-side operational ownership
- Predictable cost, managed availability
- Rapid time-to-value

OCI Enterprise AI Agent Agents: Agent Orchestration

Flexible options for frameworks and protocols

</> Frameworks



crewai

AG

AutoGen



Semantic Kernel



LlamaIndex

</> Protocols

- Model Context Protocol (MCP)
- Agent-to-Agent (A2A)

Resulting in:

- Build with the frameworks your team already knows. No migration. No retraining
- Accelerate time-to-value
- Avoid vendor lock-in
- Keep your orchestration layer open, composable, and future-proof
- Insert human checkpoints where your workflows demand it.

OCI Enterprise/Generative AI Agents



OCI Enterprise AI Agents: Agent Runtime

Tools for agents



File Search

Vector store-backed retrieval with semantic search and reranking



Code Interpreter

Sandboxed code execution for data analysis and computation



Containers

Bring your own code as hosted tools with managed lifecycle



SQL

Schema-aware SQL generation and execution against Oracle databases



RAG

Managed retrieval-augmented generation with vector stores



Memory

Short-term compression and long-term memory for agent continuity



Gateway

Connect to external APIs and services with managed auth

Supporting capabilities

Vector Stores

Fully managed, auto-scaling knowledge bases with semantic search, reranking, metadata filtering.

Moderation & Guardrails

Responsible AI enforced consistently across inference, agent actions, and tool invocations. Configurable per deployment.

Observability

Request/response logs, scaling events, auth logs, correlation IDs. Compatible with LangSmith, LangFuse, and more without code changes.

Oracle's AI Capabilities

Enterprise AI Platform

Enterprise AI Services

Fully Managed Multimodal platform, secure private access to LLM

Responses API
OpenAI-Compatible

Enterprise AI Agents

Rapidly build, manage, and deploy agents. RAG, SQL or Custom

Generative AI API
OCI Native

Oracle Applications

Embedded Agents

Custom Agents

OpenAI Llama  Gemini  Grok  cohere  Hugging Face

AI Data Platform

Multi-Cloud
AI Lakehouse

Agentic UI & AI tools

The agent UI interface where agents manage user interaction

Chat | Insight | Workflows | Agent



AI Lakehouse

Integrates advanced data engineering, AI models and tooling, Analytics

Analytics | Data Science



Data and AI Foundation

Industry-leading AI models and frameworks, running on optimized OCI infrastructure

Models | Open Source | Data & AI Catalog



Data Science

Model training

ML ops

Inference

Model building

Data preparation

Fine tuning

AI Accelerator Packs

NVIDIA NIMs

AI.Q



Route Optimizer

VSS

Outcome based Ready-made solutions



OCI AI Supported Models for the Enterprise

	OpenAI	∞ Meta	 cohere	Google
NEW Grok 4.1	NEW gpt-oss	Llama 3.1	NEW Command A	NEW Gemini 3 pro
Grok 4		Llama 3.2	Command R+	Gemini 3 flash
Grok 4 Fast		Llama 3.3	Command R	Gemini 2.5 pro
Grok Code Fast 1		Llama 4 Scout	NEW Embed 4	Gemini 2.5 flash
Grok 3 models		Llama 4 Maverick	Embed 3	Gemini 2.5 flash-lite
			Rerank 3.5	
BYOM				



Common use cases

Business Operations

As a business operations lead, I want multi-agent systems to orchestrate complex cross-functional processes (e.g., end-to-end order fulfillment), so that I can achieve proactive automation with minimal oversight.

Compliance Officer

As a compliance officer, I want an agent to monitor real-time data, flag risks, and generate reports with citations, so that I can ensure adherence in high-stakes environments.

DevOps Engineer

As a DevOps engineer, I want AI agents to handle incident response and deployment workflows autonomously, so that I can minimize downtime and improve system reliability.

Financial Analysis

As a financial analyst, I want an agent to combine market data searches, portfolio file analysis, and risk modeling functions, so that I can make informed trading or investment decisions in volatile markets.

HR – Talent Manager

As an HR professional, I want an agent to assess candidates, generate competency frameworks, and handle interview scheduling/guidance, so that I can streamline talent acquisition.

Legal

As a legal professional, I want an agent to search and summarize case files or documents from vector stores, so that I can quickly reference precedents during case preparation.

Market Research

As a market researcher, I want an agent to perform web searches, synthesize data from multiple sources, and cite evidence, so that I can complete weeks of research in minutes.



Next steps: turn agentic AI into an enterprise program

Use a bounded workflow to prove value, controls, and operating ownership.

1

Select one workflow

High handoff pain, clear owner, visible outcome.

2

Map controls

Systems, data, approvals, audit, and risk boundaries.

3

Run a constrained POC

Evaluation criteria, tool access, and human checkpoints.

4

Build production blueprint

Ownership, monitoring, cost model, runbook, governance.

Pick the first workflow where actions, evidence, and ownership are already clear.



Q&A



ORACLE