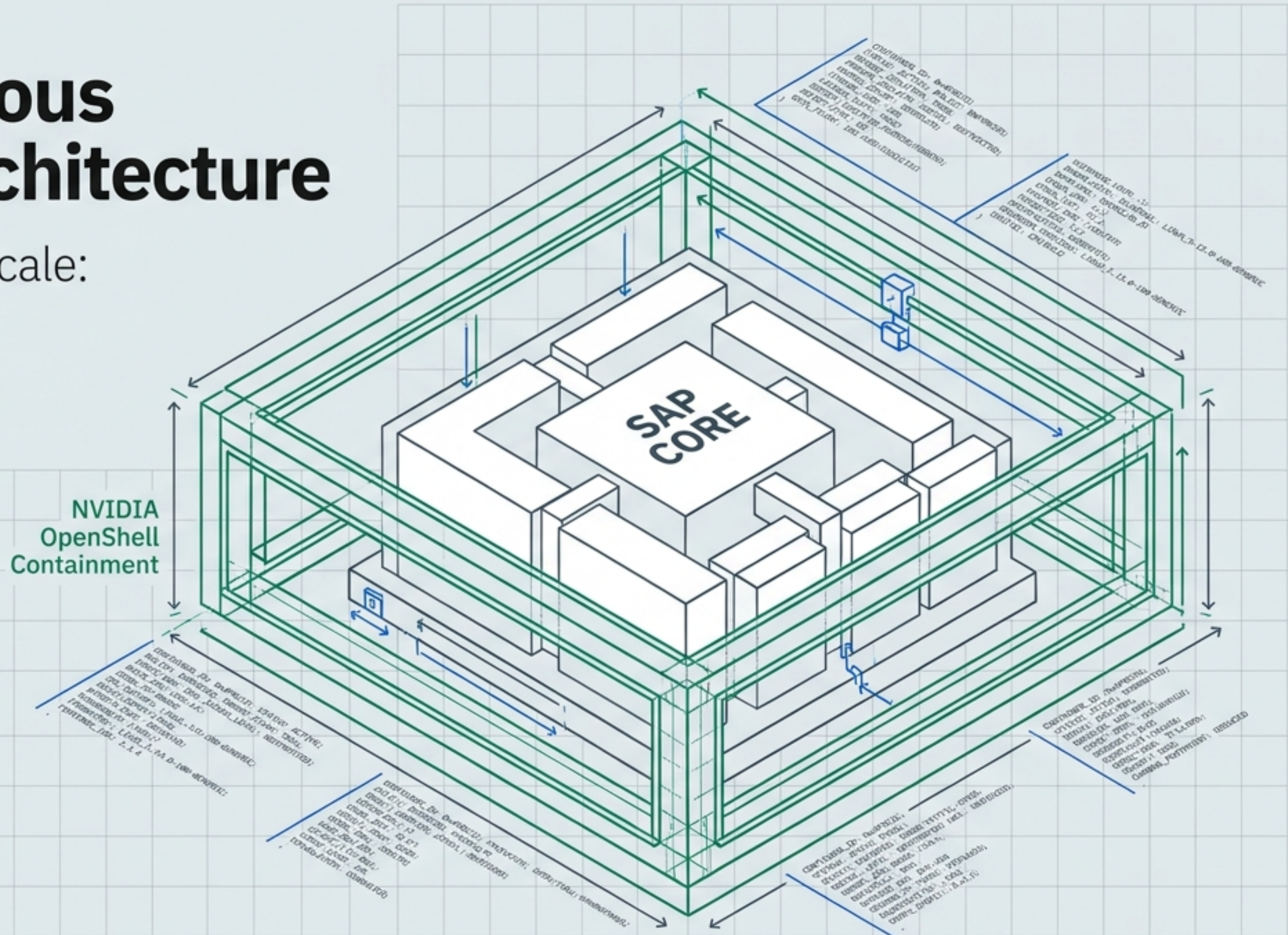


# The Autonomous Enterprise Architecture

Securing Agentic AI at Scale:  
The SAP, NVIDIA, and  
OpenClaw Ecosystem



# The 2026 Mandate: From Pilot LLMs to Autonomous Production

## THE REALITY

54%

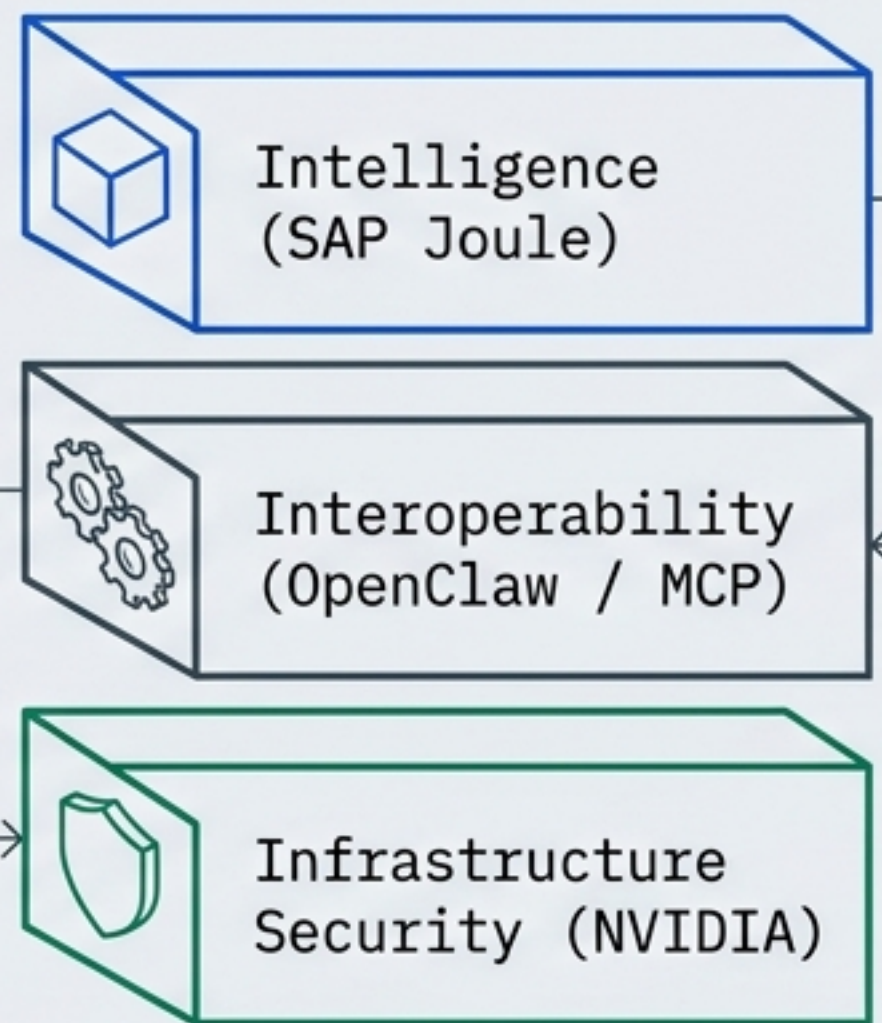
of enterprises now run AI agents in production environments.

## THE GOAL

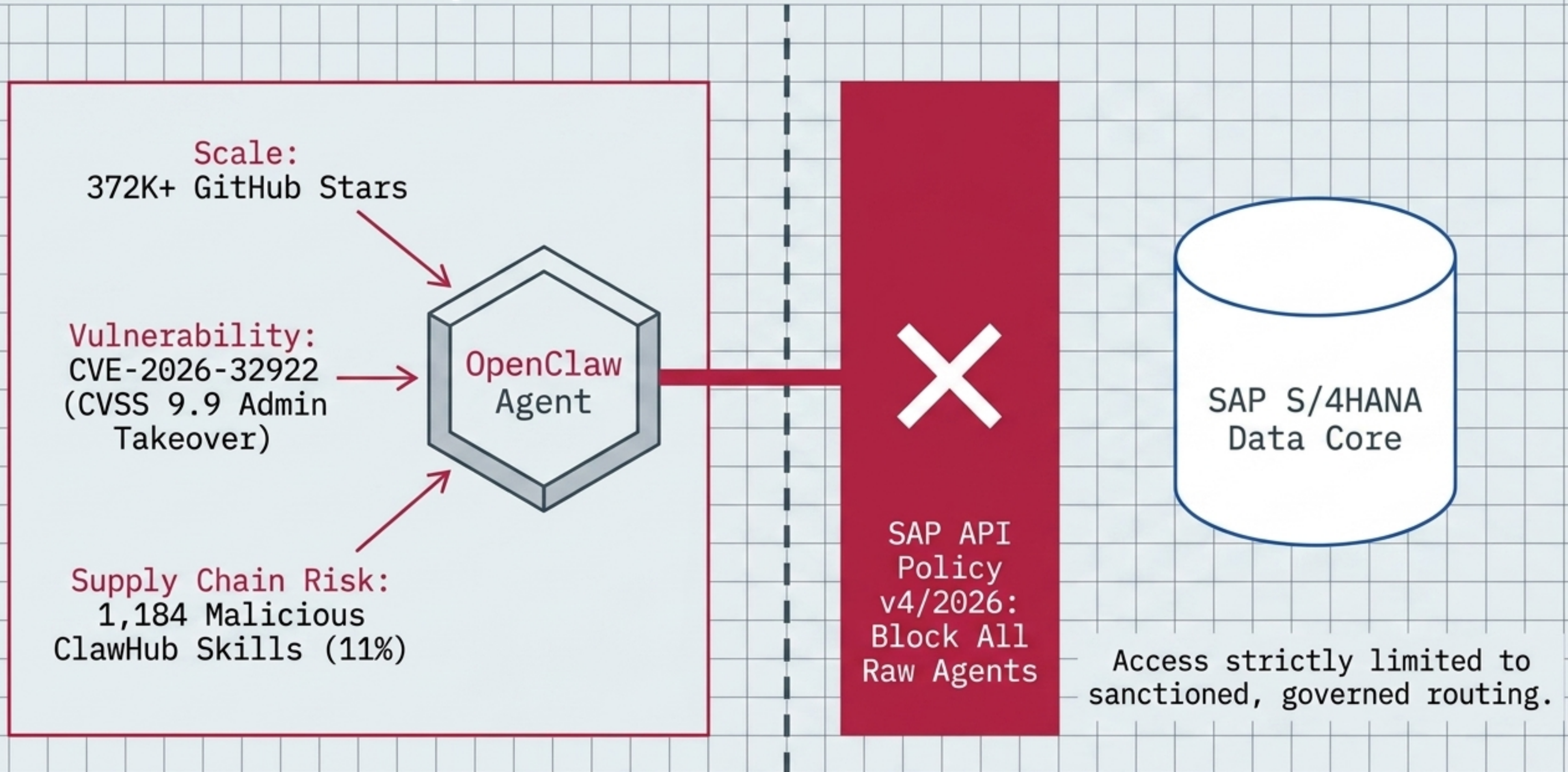
2000+

agents deployed to act autonomously on mission-critical ERP data.

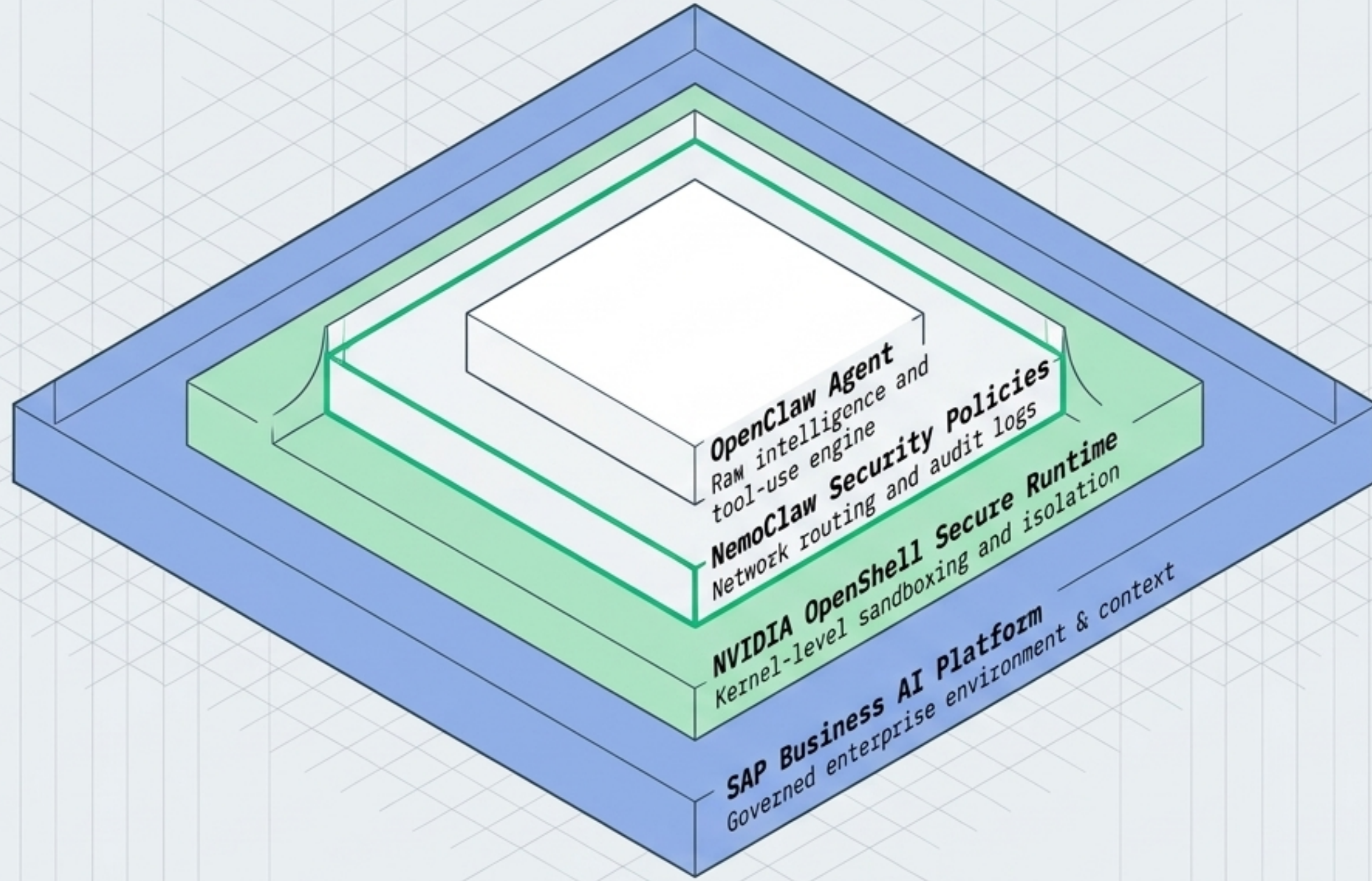
## THE ARCHITECTURE



# The Existential Threat of Unauthorized Agents and SAP API Policy v4

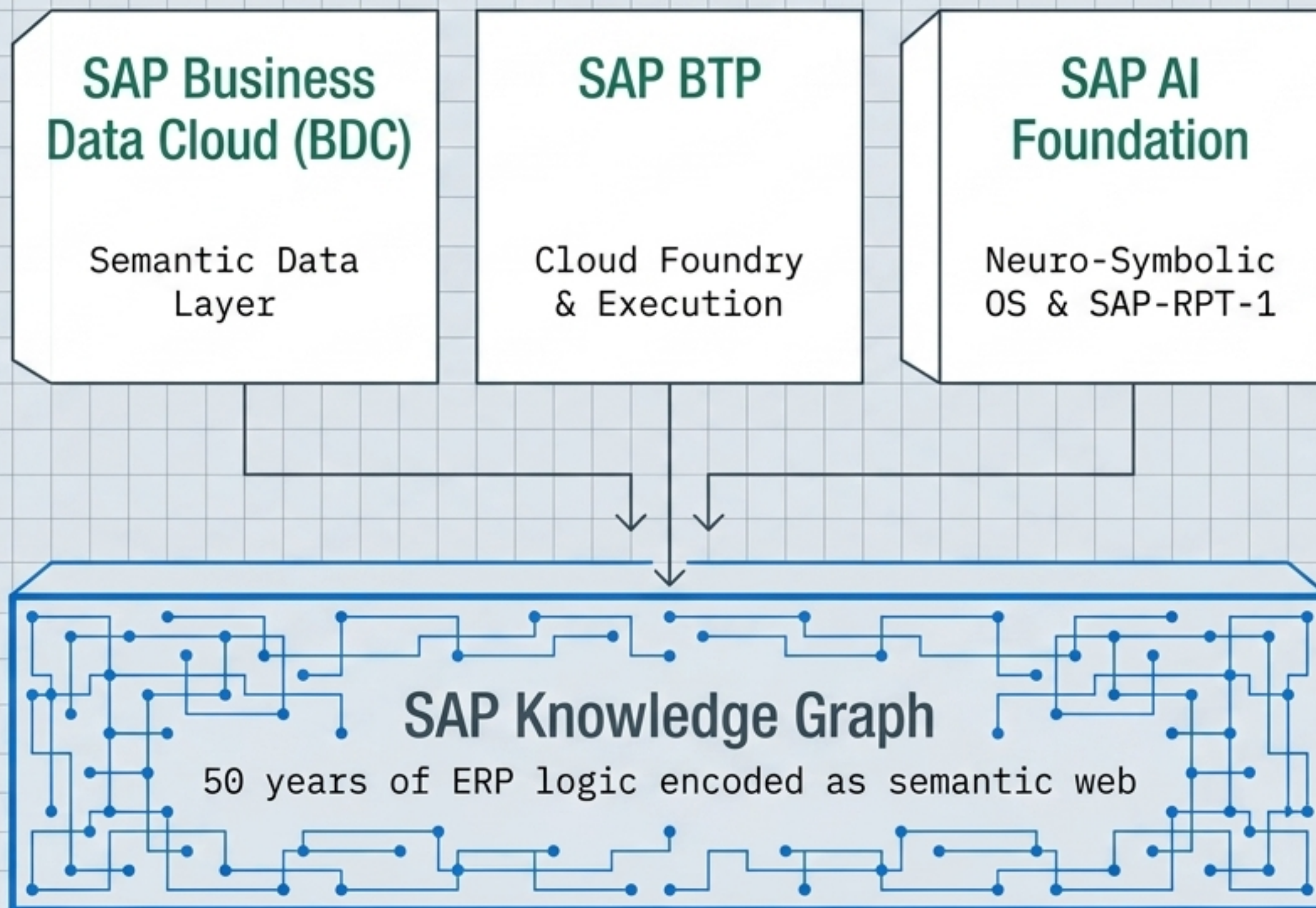


# The 2026 Enterprise Agent Stack: The Matryoshka Containment Model

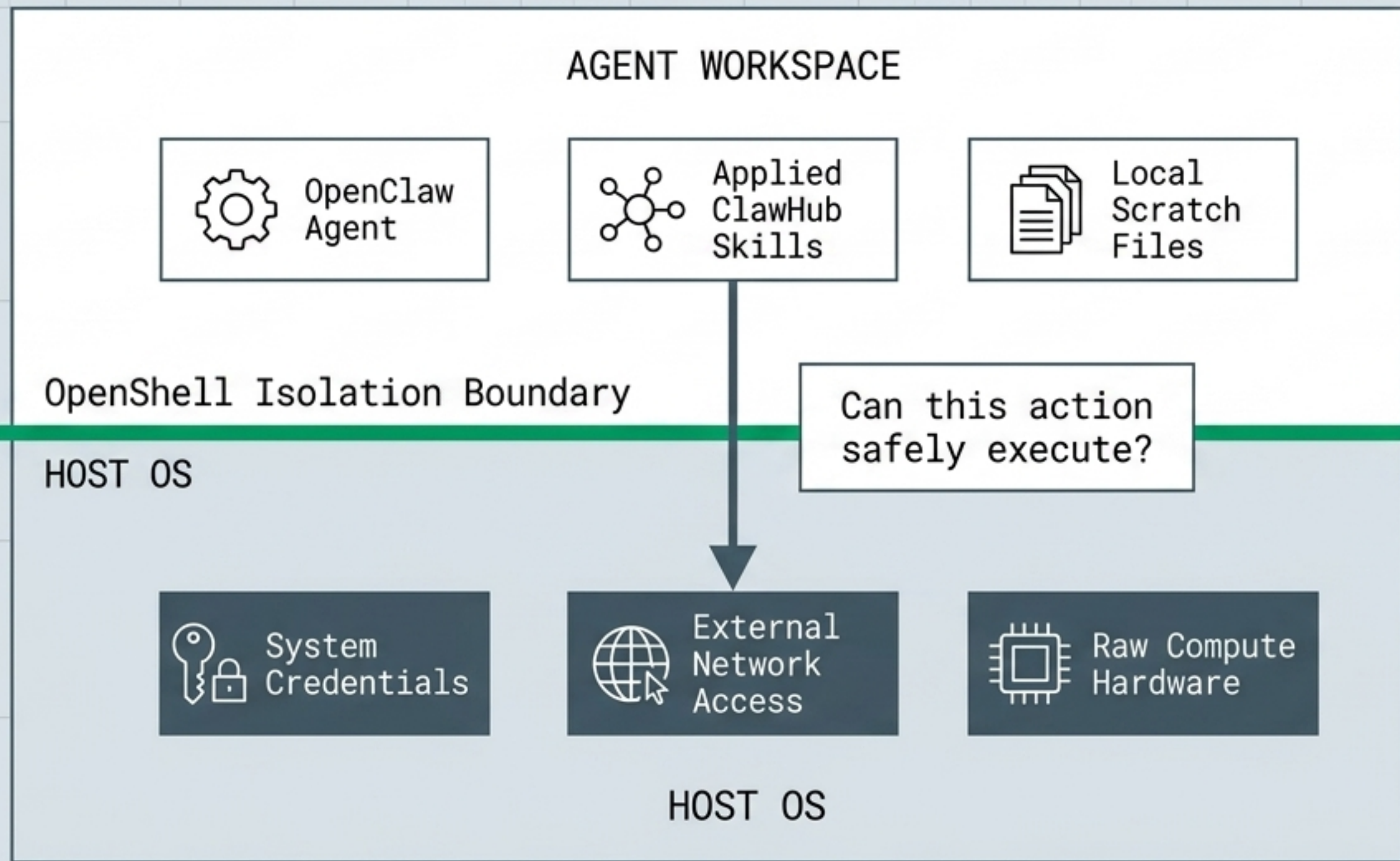


Unauthorized agents are blocked; contained agents are empowered.

# SAP Business AI Platform Unifies the Fragmented AI Toolkit



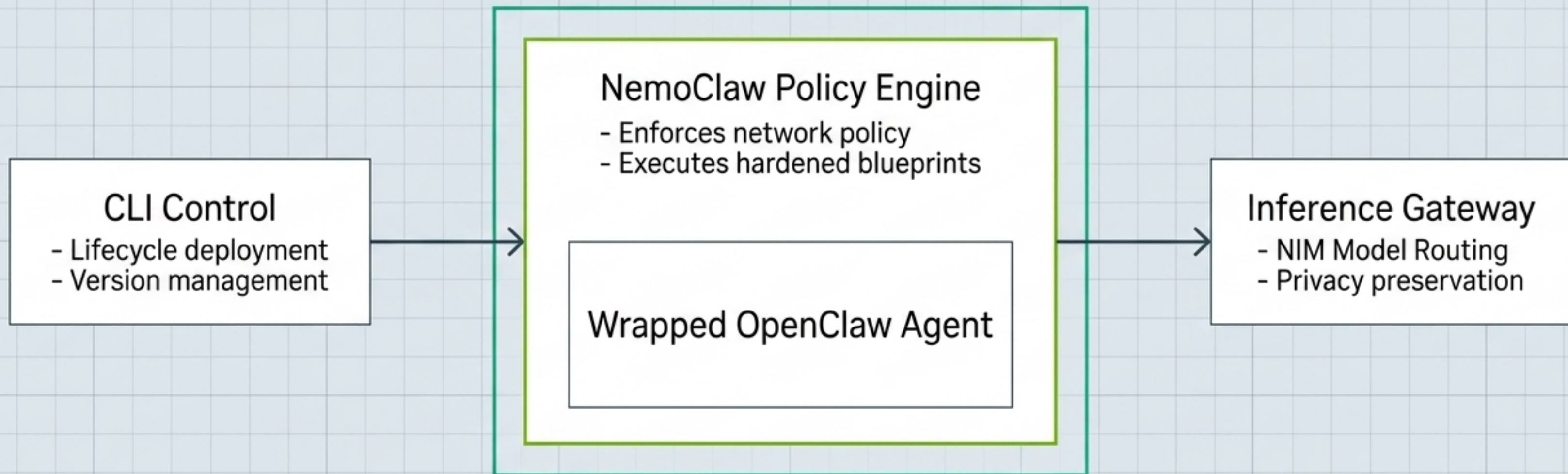
# NVIDIA OpenShell Delivers Kernel-Level Agent Isolation



## Key Security Features:

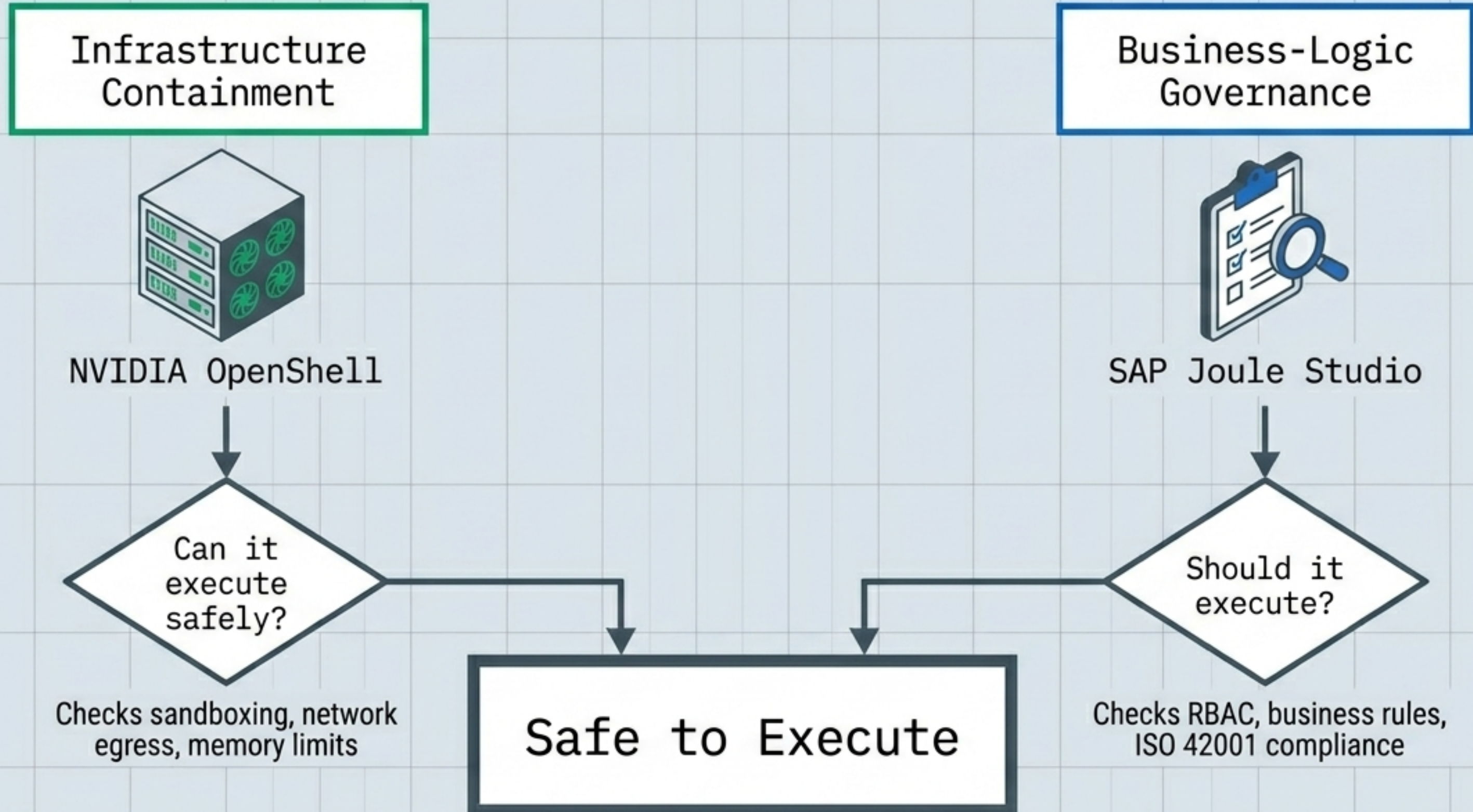
- Out-of-process policy enforcement
- Rootless execution
- Least-privilege isolation via AI Red Team playbooks

# NVIDIA NemoClaw: Enterprise Security Wrapper for OpenClaw



NemoClaw does not replace OpenClaw; it wraps it, providing guided onboarding, routed inference, and immutable audit trails without exposing host credentials.

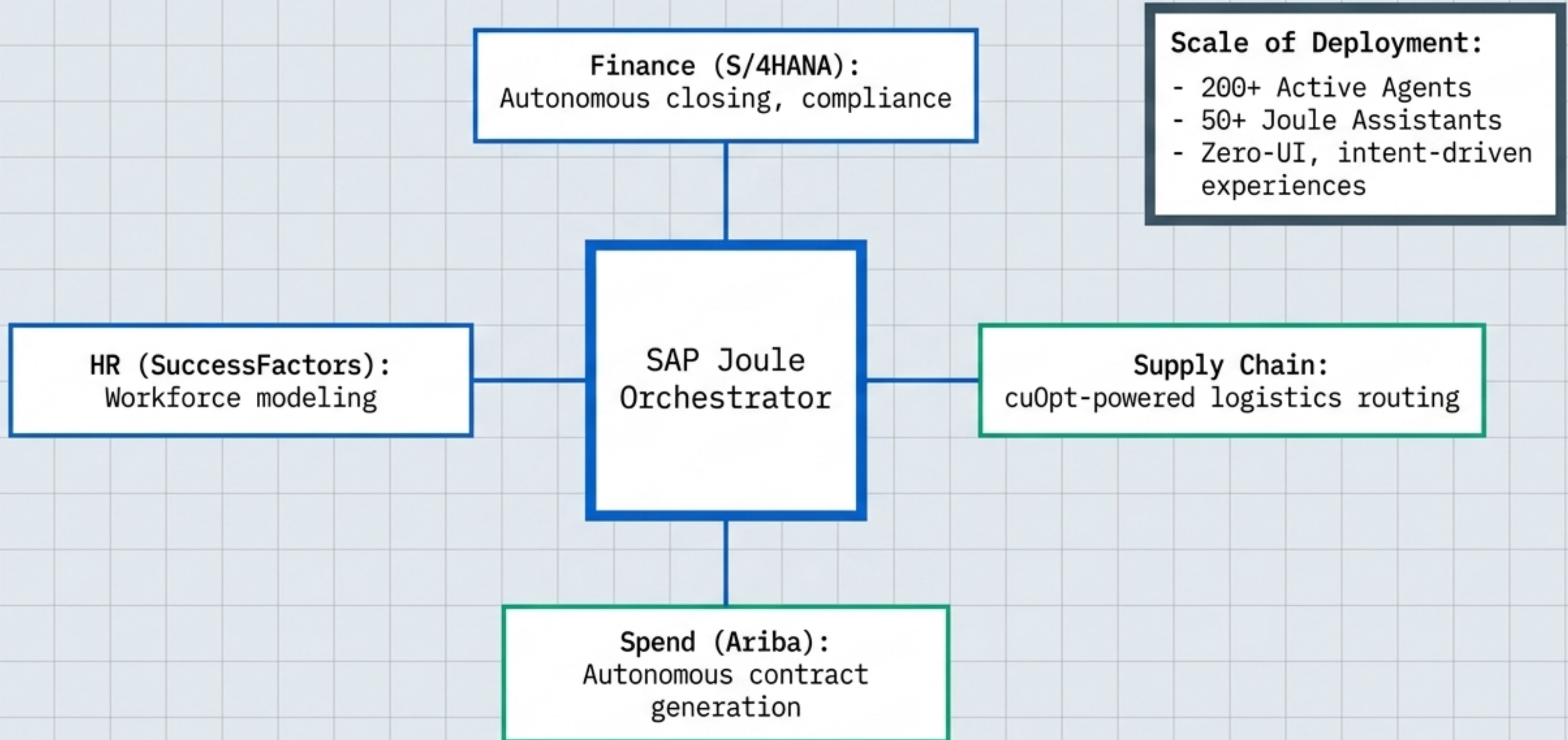
# The SAP and NVIDIA Dual-Layer Trust Boundary



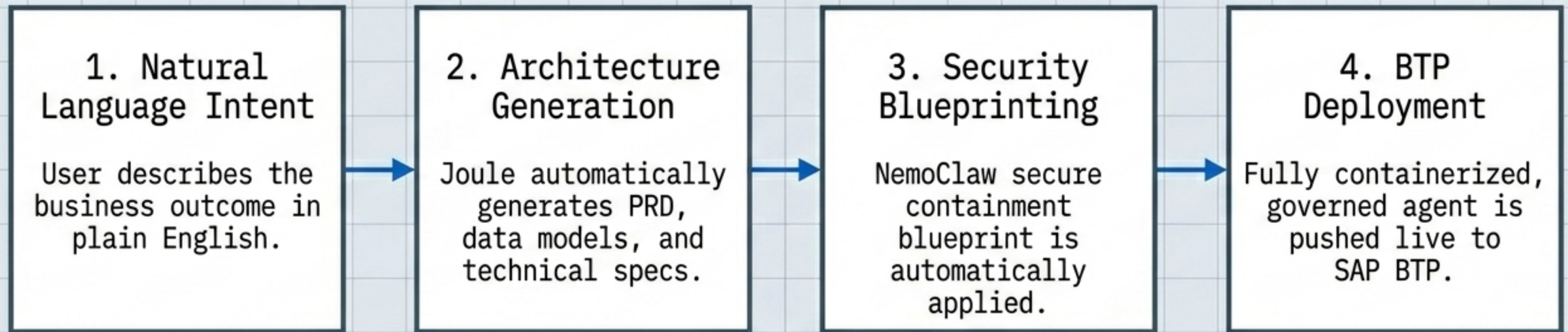
# Threat vs. Mitigation Matrix: Securing the OpenClaw Ecosystem

Identified Threat	Architectural Mitigation
CVE-2026-32922 (Admin Takeover via Prompt Injection)	NVIDIA OpenShell Rootless Execution & out-of-process sandboxing
Malicious ClawHub Skills (Found in 11% of marketplace)	NVIDIA NemoClaw Network Policy & strict allowlisting
Unauthorized ERP Data Access	SAP API v4 + SAP Agent Hub centralized routing
Prompt Injection Data Leaks	NVIDIA Privacy Router & NIM-routed inference

# Joule 2.0 Orchestrates the Autonomous Suite

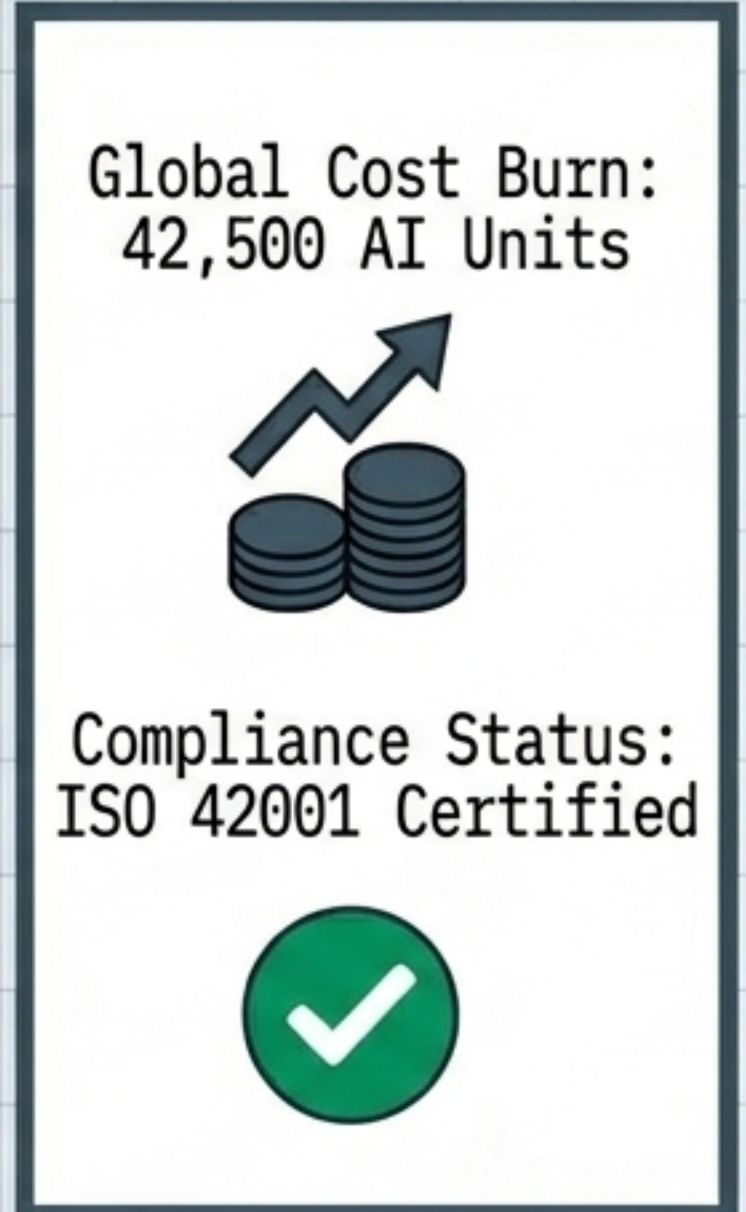
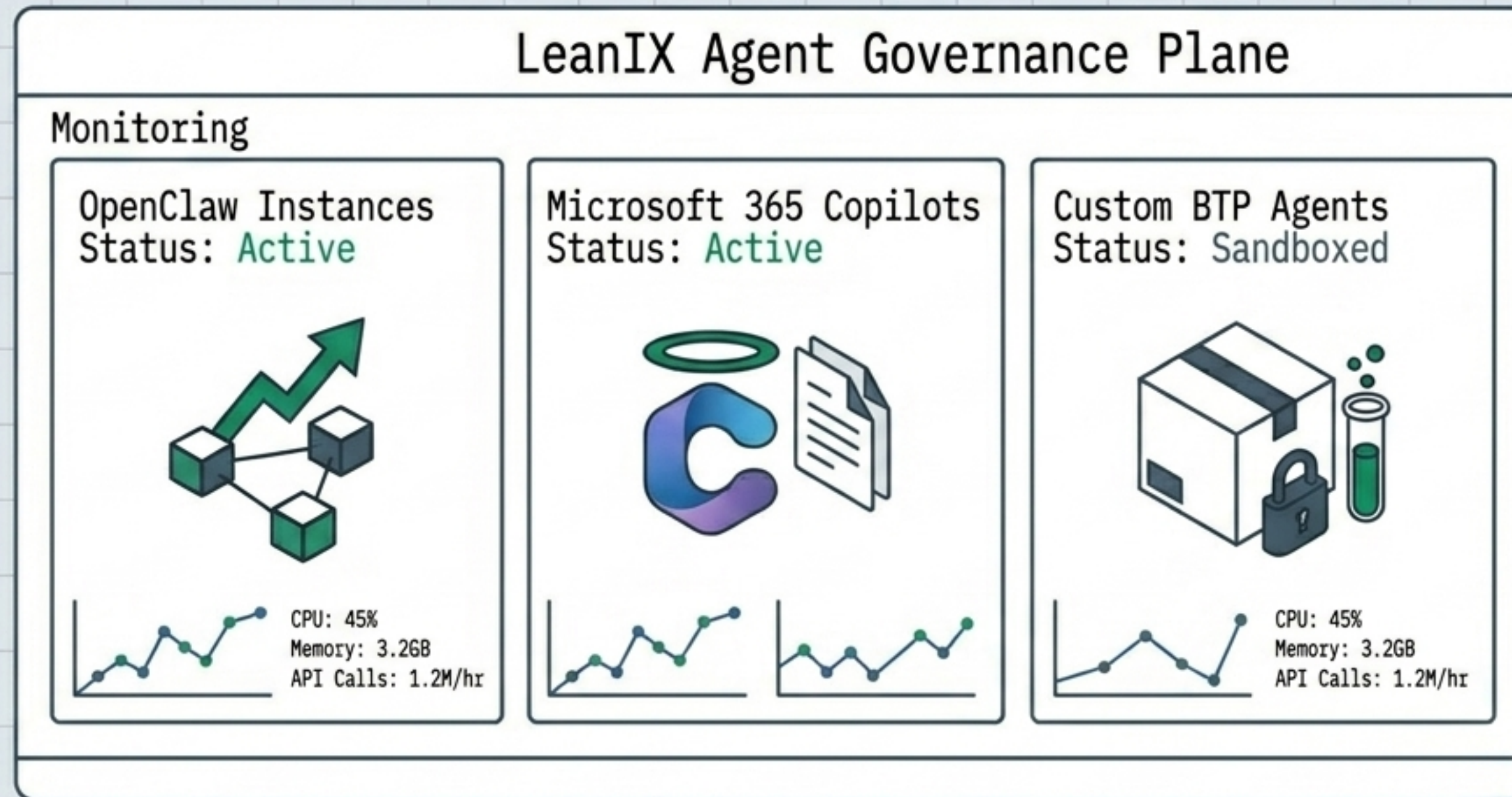


# Joule Studio 2.0 Enables Intent-Based Agent Development



Compressing development cycles from weeks to hours.

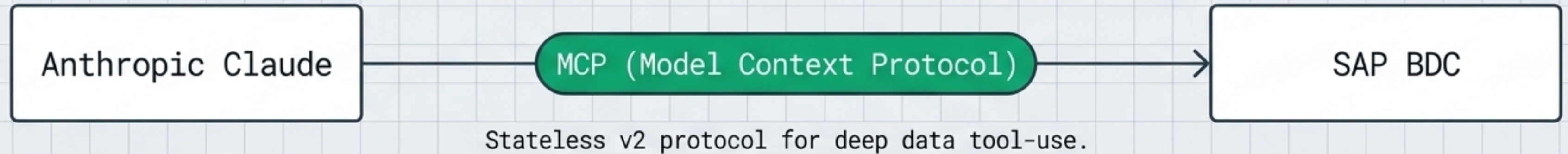
# SAP AI Agent Hub: The Vendor-Agnostic Governance Command Center



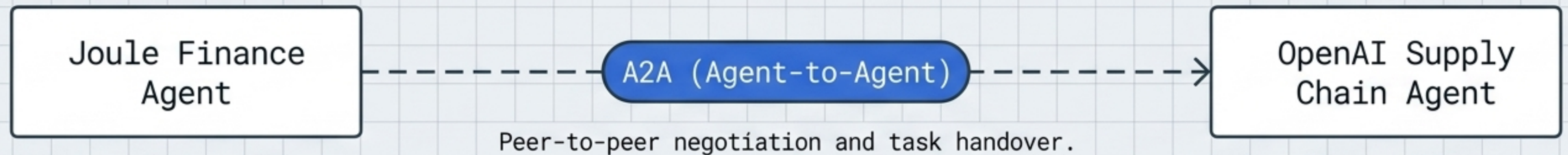
SAP becomes the governance layer of record for the entire enterprise agent ecosystem, regardless of the underlying vendor.

# Multi-Agent Orchestration via MCP and A2A Protocols

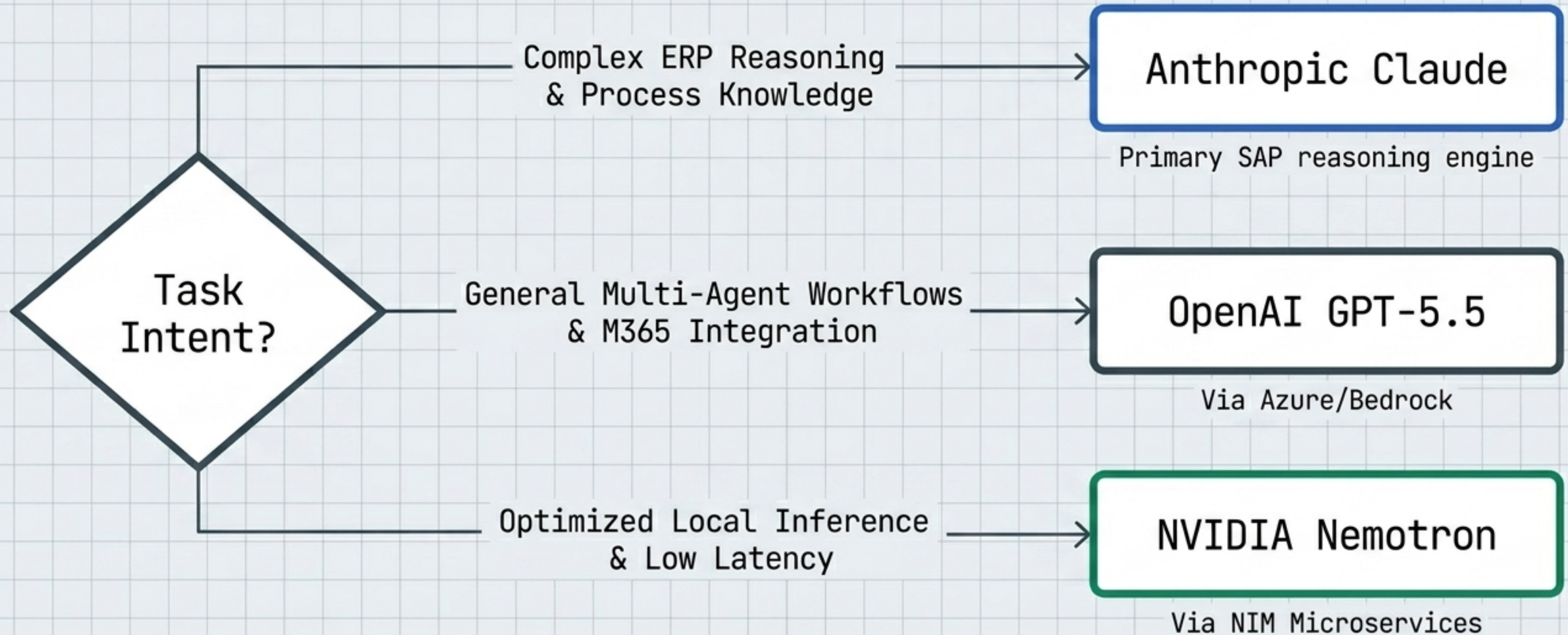
(Agent to Data)



(Agent to Agent)



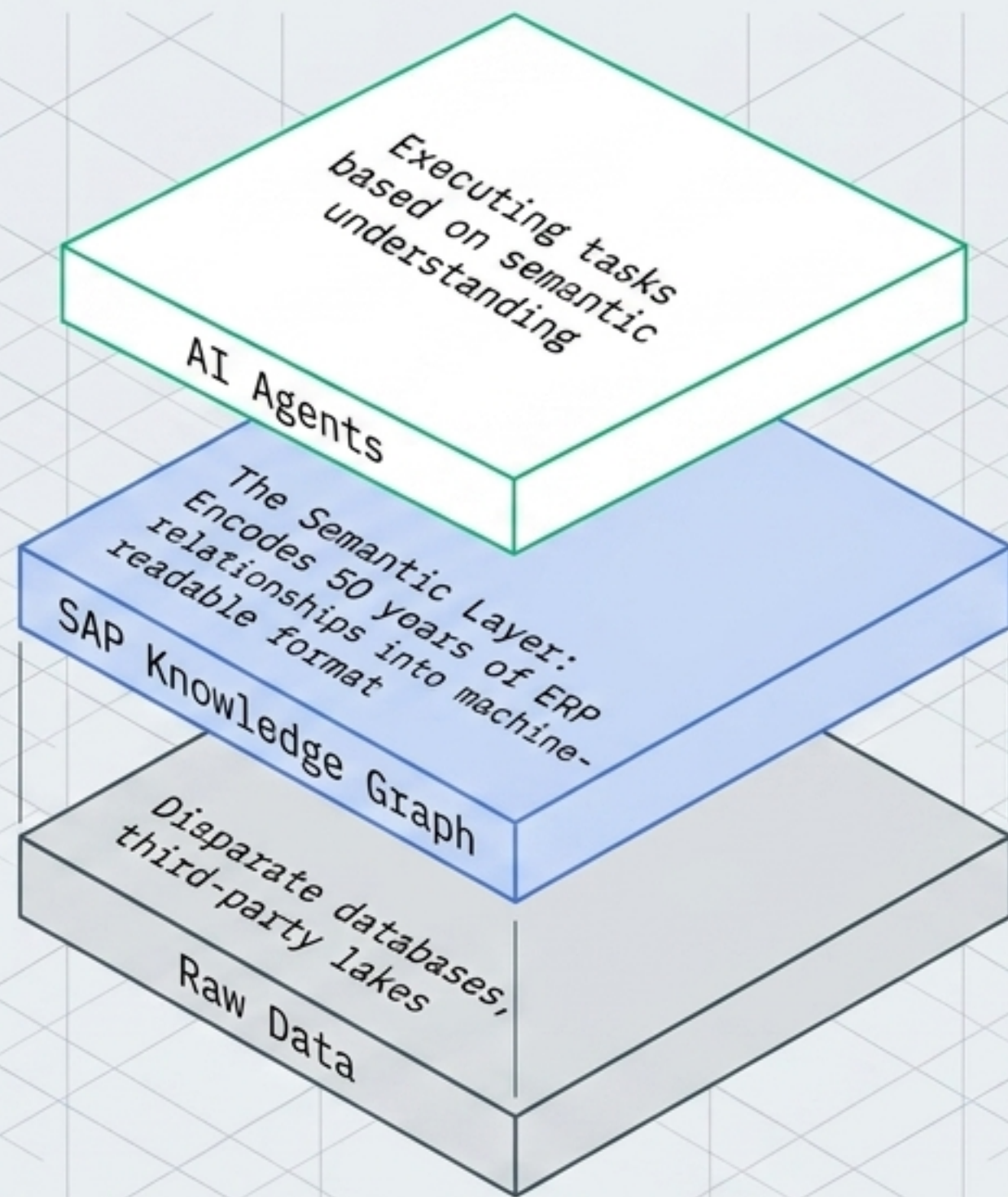
# Model Positioning: Routing Reasoning via the Dual-Vendor Strategy



# 2026 Foundation Model Comparison Matrix

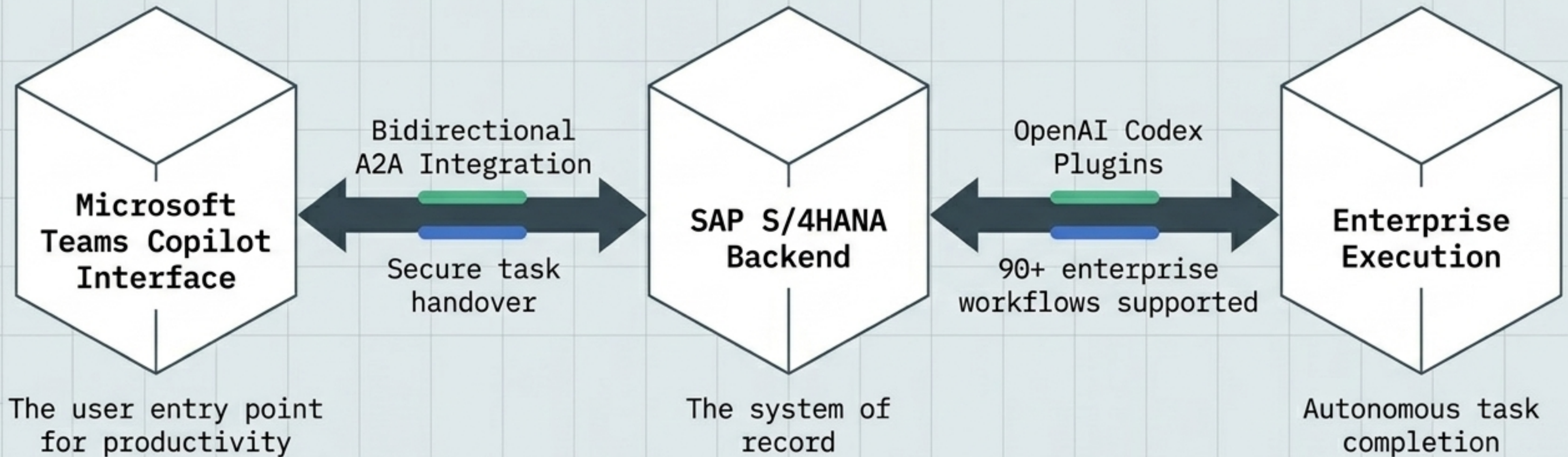
<b>Anthropic Claude 3.5+</b>	<b>OpenAI GPT-5.5 ('Spud')</b>	<b>NVIDIA Nemotron 3 Nano</b>
<ul style="list-style-type: none"><li>- Primary SAP reasoning engine</li><li>- Deep native integration with S/4HANA workflows</li><li>- Optimized for complex logical planning</li></ul>	<ul style="list-style-type: none"><li>- Omnimodal architecture</li><li>- Optimized for long-horizon multi-multi-agent tasks</li><li>- 272k context window on Amazon Bedrock</li></ul>	<ul style="list-style-type: none"><li>- 30B parameter size</li><li>- 1M token context window</li><li>- Hybrid Latent MoE architecture</li><li>- Designed for localized, secure execution</li></ul>

# Enterprise Data Context: Beyond Zero-Copy Architecture



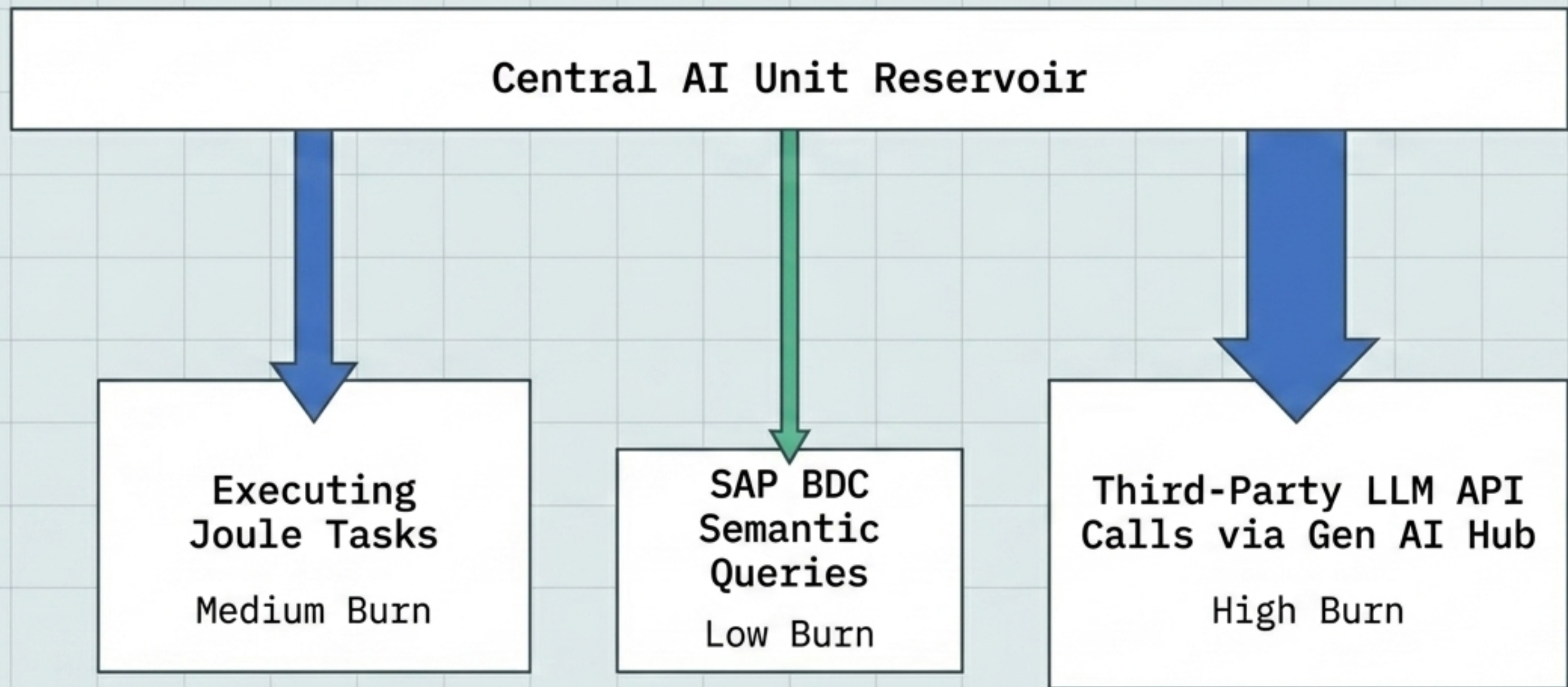
Compute happens anywhere, data stays at source, but business context is managed centrally in SAP BDC.

# Multi-Vendor Convergence: OpenAI, Microsoft, and SAP



The secure execution environment enables seamless interoperability between the productivity suite and the system of record.

# Licensing & Consumption: The AI Unit Economy (SKU 8019164)



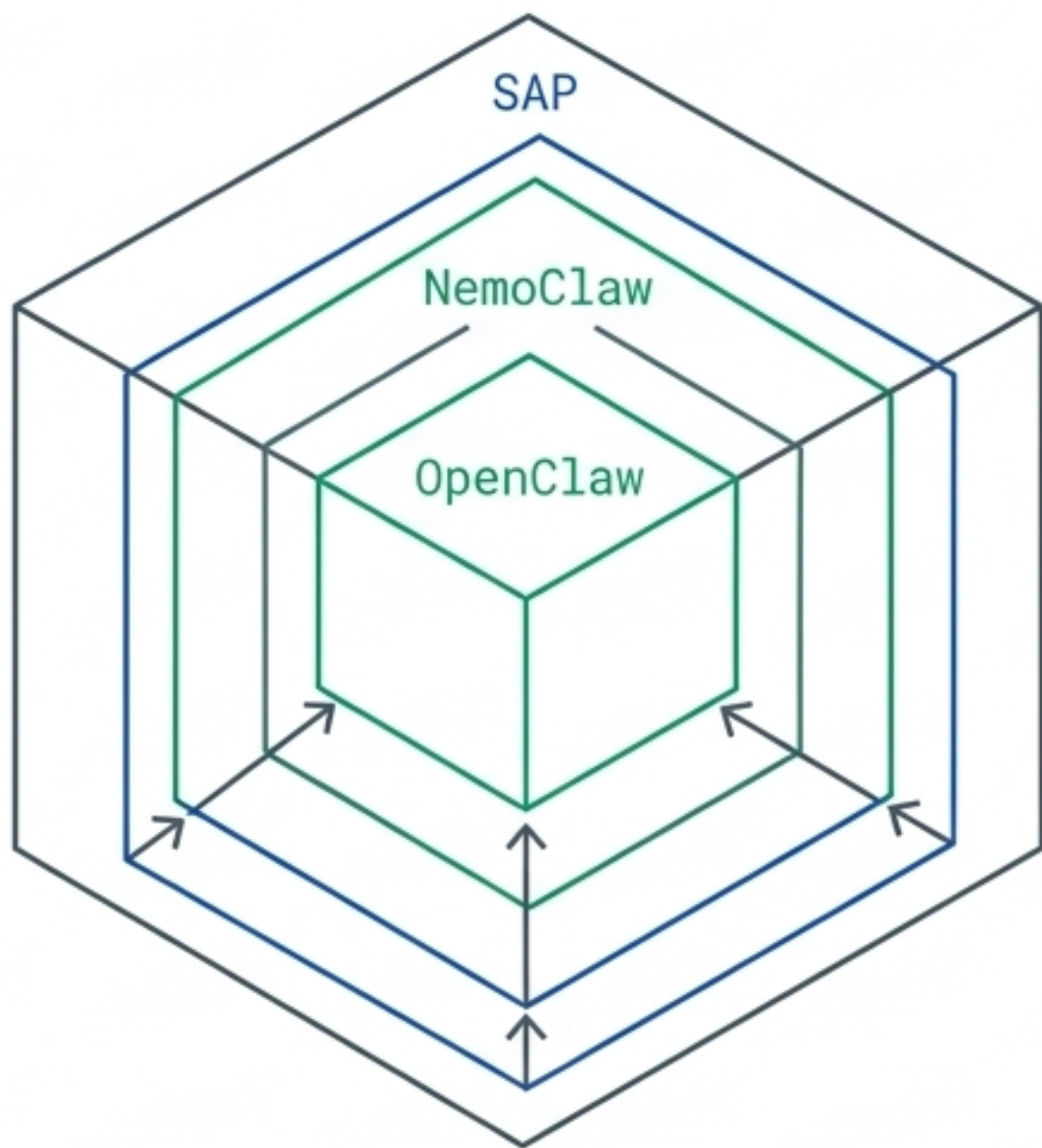
A structural shift from per-user seat licenses to consumption-based AI pricing driven by autonomous automation.

# The 2026 Enterprise Agent Deployment Roadmap

	Q2 2026	Q3 2026	Q4 2026
Security & Core	NemoClaw General Availability		
Joule Workspace	Joule Work Mobile App GA		Joule Work Desktop GA
Governance & Interoperability		SAP AI Agent Hub GA & Microsoft Fabric Zero-copy	
Execution			S/4HANA Autonomous Workflows Go Live

The phased roadmap outlines key deployment milestones for secure, interoperable enterprise agents and autonomous workflows.

# The Blueprint for the Autonomous Enterprise



## Architectural Checklist

- Raw Intelligence**  
Anthropic, OpenAI, and OpenClaw models acting as the cognitive engine.
- Military-Grade Security**  
NVIDIA OpenShell and NemoClaw containing execution at the kernel level.
- Deep Business Context**  
SAP Business AI and Knowledge Graph providing the semantic guardrails.
- Strict Governance**  
AI Agent Hub delivering ISO 42001-certified auditability across the ecosystem.