



The CIO's Guide to Multiagent Systems

Strategic Implementation for Enterprise AI Orchestration

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White Paper

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Executive Summary

Multiagent systems represent the next evolution in enterprise AI, moving beyond isolated models to orchestrated networks of specialized agents that collaborate, make decisions, and execute complex workflows with minimal human intervention. For CIOs and technology leaders, this shift presents both opportunity and urgency: organizations that successfully deploy multiagent architectures gain significant competitive advantages in operational efficiency, adaptability, and speed to market.

The business case is compelling. Unlike traditional automation that handles single tasks, multiagent systems can reshape end-to-end processes by dividing work among specialized AI agents, each focused on specific domains like data analysis, communication, or decision-making. This approach reduces time-to-production for AI initiatives from months to days, cuts operational costs by 40-60%, and enables organizations to respond dynamically to changing business conditions. However, realizing these benefits requires more than technology deployment. It demands strategic planning around governance, security, interoperability, and organizational change.

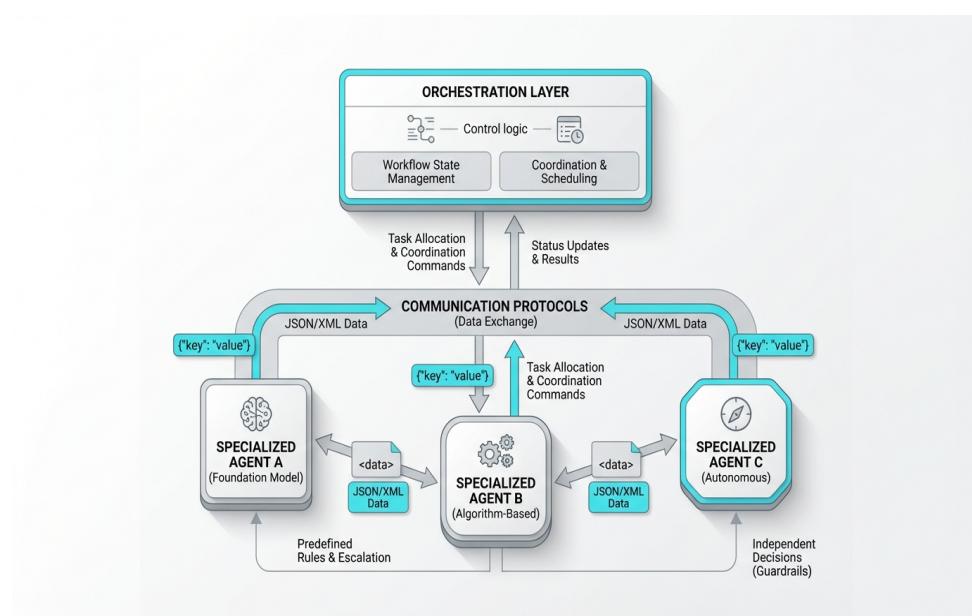
This guide provides CIOs with a practical framework for leading multiagent transformation. You'll learn how to identify high-impact use cases, design scalable architectures, establish governance guardrails, and measure ROI. Most critically, you'll understand how to avoid tactical deployments that create technical debt and instead build holistic, enterprise-grade systems that deliver sustained business value. The organizations that succeed will be those that approach multiagent systems not as isolated AI experiments, but as foundational infrastructure for the autonomous enterprise.

Overview

Multiagent systems mark a fundamental shift in how enterprises deploy artificial intelligence. Rather than relying on monolithic models or isolated AI tools, these systems orchestrate multiple specialized agents that communicate, collaborate, and coordinate to accomplish complex business objectives. Each agent operates with a defined role and expertise, whether that's retrieving information, analyzing data, making recommendations, or executing transactions. Together, they form an intelligent network capable of handling workflows that previously required extensive human coordination.

The emergence of multiagent systems is driven by several converging factors. First, advances in large language models have given AI agents unprecedented natural language understanding and reasoning capabilities, enabling them to interpret context and communicate effectively. Second, organizations have reached a breaking point with fragmented AI implementations. Many enterprises now operate 10-20 disconnected AI tools that create data silos and require manual handoffs. Third, competitive pressure is mounting: 87% of machine learning models never reach production under traditional approaches, while early adopters of multiagent architectures are deploying solutions in days instead of months.

From a technical perspective, multiagent systems rely on three core components: individual agents built on foundation models or specialized algorithms, communication protocols that enable agents to exchange information using structured formats like JSON or XML, and orchestration layers that coordinate agent interactions and maintain workflow state. Agents operate with varying degrees of autonomy. Some follow predefined rules and escalate exceptions to humans, while others make independent decisions within established guardrails. The sophistication of the system depends on how well these components integrate and how effectively agents balance autonomy with accountability.



Core architectural components of enterprise multiagent systems showing agents, communication protocols, and orchestration layers.

Adoption is accelerating across industries. Financial services firms use multiagent systems for fraud

detection, where one agent monitors transactions, another analyzes patterns, and a third triggers alerts or blocks suspicious activity. Healthcare organizations deploy them for patient care coordination, with agents managing scheduling, lab results interpretation, and treatment recommendations. Supply chain operations benefit from agents that monitor inventory levels, predict demand fluctuations, and automatically reorder materials. What these use cases share is complexity: multiple data sources, interdependent decisions, and the need for real-time responsiveness.

For organizations building multiagent capabilities, platforms like Shakudo provide critical infrastructure advantages. Deploying and orchestrating multiple AI agents requires integrated tooling for model serving, workflow management, monitoring, and governance. Shakudo's pre-integrated ecosystem of 200+ tools enables teams to assemble multiagent architectures in days rather than spending months integrating disparate systems. Critically, Shakudo maintains data sovereignty by running entirely within customer environments, addressing regulatory and security concerns that often block AI initiatives in regulated industries. This combination of speed, flexibility, and control makes enterprise-grade multiagent deployment practical for organizations that lack the resources to build complex AI infrastructure from scratch.

Why Multiagent Systems Matter Now

The limitations of single-agent AI have become painfully apparent as enterprises scale their artificial intelligence initiatives. Organizations invested heavily in generative AI throughout 2023 and 2024, deploying chatbots, copilots, and isolated models for specific tasks. While these solutions delivered value, they hit walls when applied to complex, cross-functional processes. A customer service chatbot can answer questions but cannot coordinate with inventory systems to resolve fulfillment issues. A data analysis model can generate insights but cannot trigger downstream actions or collaborate with other systems to implement recommendations. These gaps expose the fundamental constraint: single agents operate in isolation, lacking the collaborative intelligence required for enterprise-scale automation.

Multiagent systems solve this problem by enabling coordinated action across business processes. Consider the challenge of enterprise procurement, which typically involves requisition approval, vendor selection, contract negotiation, purchase order creation, and payment processing. Each step touches different systems, requires different expertise, and involves handoffs between teams. A multiagent approach assigns specialized agents to each domain: one agent validates budget availability, another analyzes vendor options based on historical performance, a third generates contract terms, and a fourth manages payment workflows. These agents communicate through structured protocols, sharing context and making decisions collaboratively rather than passing tasks through manual queues.

The business impact is substantial. Organizations implementing multiagent systems report dramatic reductions in process cycle times, often compressing workflows that took days or weeks into minutes. One financial services firm reduced loan application processing from 72 hours to under 4 hours by deploying agents that verify income, assess credit risk, check fraud indicators, and generate approval recommendations in parallel rather than sequentially. A manufacturing company cut supply chain exception handling time by 65% using agents that detect disruptions, evaluate alternative suppliers, and automatically reroute orders. These improvements translate directly to competitive advantage: faster time to market, better customer experiences, and lower operational costs.

Timing is critical because the technology has matured sufficiently for production deployment while the competitive window remains open. Three key enablers have converged:

- **Foundation model capabilities:** Modern LLMs possess reasoning, planning, and communication abilities sophisticated enough to power autonomous agents that understand context and make nuanced decisions
- **Agent frameworks and platforms:** Tools like LangChain, AutoGen, and CrewAI have emerged to simplify agent development, while enterprise platforms provide the orchestration and governance layers required for production deployment
- **Communication standards:** Industry protocols for agent messaging, including ACLs and structured message formats, enable interoperability and reduce integration complexity

Despite these advances, barriers remain. Immature standards for agent communication create integration challenges when connecting agents built on different frameworks. Reliability concerns persist, particularly around agents making consequential decisions without human oversight. Cost unpredictability worries CFOs, as multiagent systems can generate significant API usage charges when agents call external services.

repeatedly. Addressing these challenges requires deliberate architecture decisions, robust governance frameworks, and platforms that provide cost controls and observability.

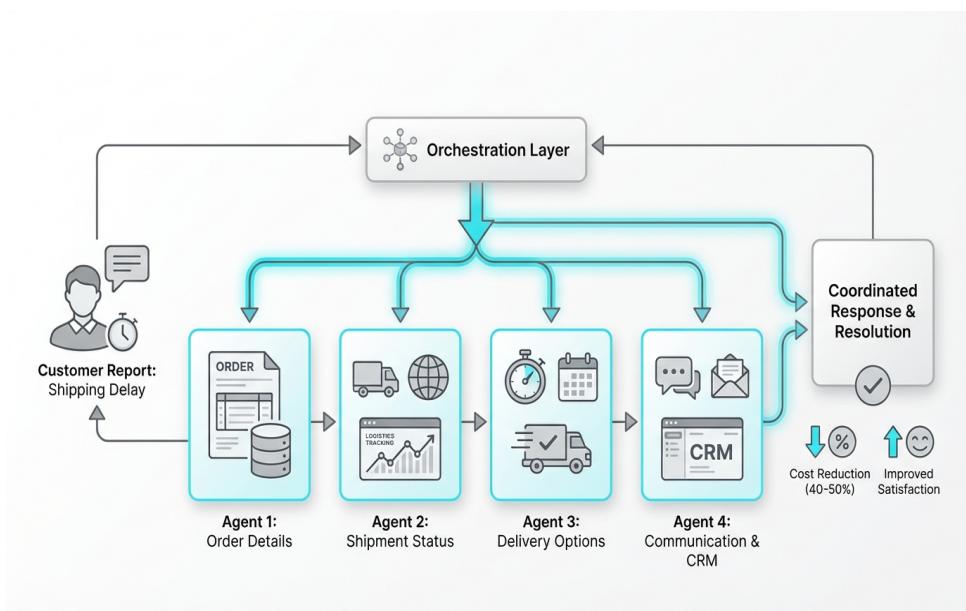
For organizations ready to move beyond experimentation, platforms like Shakudo remove critical deployment barriers. Shakudo's unified environment includes pre-integrated frameworks for agent development, workflow orchestration tools, monitoring dashboards, and governance controls—all deployable in customer-controlled infrastructure. This approach solves two problems simultaneously: it accelerates time-to-production by eliminating months of integration work, and it maintains data sovereignty by ensuring sensitive information never leaves the organization's security perimeter. For CIOs in regulated industries facing compliance requirements, this combination of speed and control makes multiagent deployment viable where it would otherwise be blocked by security and privacy constraints.

Identifying High-Impact Use Cases

Selecting the right initial use cases determines whether multiagent investments deliver measurable ROI or become expensive science projects. The most successful implementations target processes with specific characteristics: high volume and repetition, multiple handoffs or coordination points, dependence on data from disparate sources, and clear business metrics for measuring impact. CIOs should resist the temptation to tackle the most complex problems first. Instead, focus on workflows where multiagent systems can demonstrate value quickly while providing learning opportunities that inform broader deployment.

IT operations and service management represent ideal starting points. Password resets alone cost organizations an average of \$85,000 annually in productivity losses and IT overhead. A multiagent system can handle these requests end-to-end: one agent authenticates the user through multiple verification methods, another checks security policies and access permissions, a third executes the reset across connected systems, and a fourth updates tickets and notifies the user. Beyond password management, high-impact ITSM use cases include user access provisioning, account operations in systems like Azure AD, and service request routing. These workflows are high-volume, well-documented, and relatively low-risk, making them excellent candidates for agent automation.

Customer-facing operations also benefit significantly from multiagent orchestration. Traditional chatbots struggle because they lack context and cannot take action across systems. Multiagent architectures overcome this limitation. When a customer reports a shipping delay, one agent retrieves order details, another checks current shipment status across logistics systems, a third evaluates options for expedited delivery, and a fourth updates the customer and adjusts expectations in the CRM. This coordinated response happens in seconds rather than requiring escalation to human agents. Organizations report 40-50% reductions in customer service costs while simultaneously improving satisfaction scores because issues are resolved faster and more completely.



Multiagent workflow handling customer shipping delays through coordinated, parallel agent collaboration.

Document-intensive processes offer another high-value opportunity. Contract review, compliance checking, and invoice processing involve extracting information from unstructured documents, validating data against business rules, and routing for approvals. A multiagent approach assigns one agent to document classification, another to information extraction, a third to validation against external data sources, and a fourth to exception handling. Legal teams that previously spent weeks reviewing contracts for specific clauses or compliance risks can now process hundreds of documents in hours, with agents flagging anomalies and surfacing key terms for human review.

Supply chain and logistics operations benefit from multiagent systems' ability to respond dynamically to disruptions. Modern supply chains involve dozens of variables: inventory levels, demand forecasts, supplier reliability, transportation capacity, and external factors like weather or geopolitical events. When disruptions occur, one agent monitors real-time data feeds, another evaluates impact on commitments, a third identifies alternative suppliers or routes, and a fourth executes changes and communicates with stakeholders. This automated coordination reduces response times from hours to minutes and prevents disruptions from cascading into customer-facing issues.

When evaluating potential use cases, apply these criteria to ensure success:

1. **Process maturity:** Choose workflows with documented procedures and clear success criteria rather than ad-hoc activities that vary significantly between executions
2. **Data availability:** Ensure necessary data exists in accessible systems; multiagent systems cannot compensate for missing or siloed information
3. **Volume justification:** Target processes with sufficient transaction volume to justify automation investment, typically hundreds or thousands of occurrences monthly
4. **Risk tolerance:** Start with use cases where errors are recoverable and consequences are manageable, saving high-stakes decisions for later implementations
5. **Measurement clarity:** Select processes with quantifiable metrics like cycle time, error rates, or cost per transaction that enable clear ROI demonstration

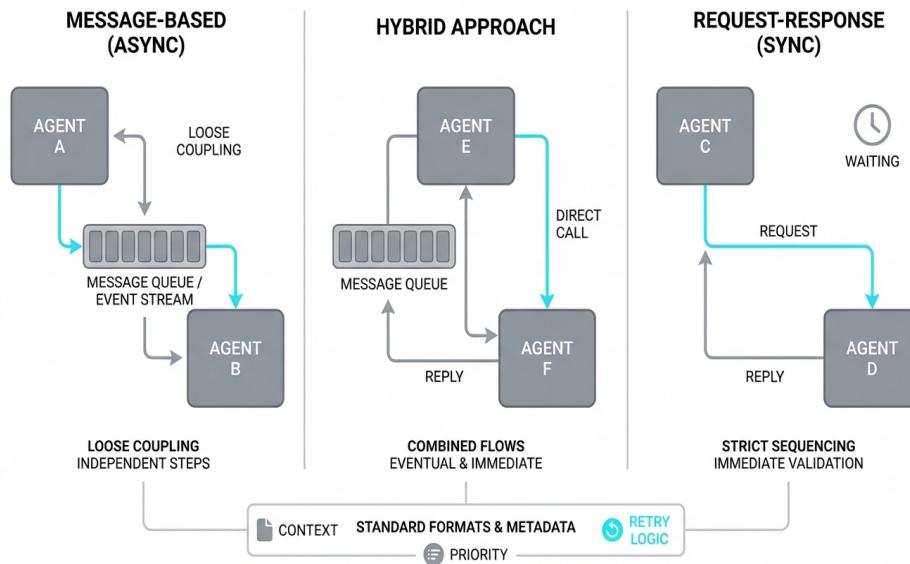
For organizations deploying multiagent systems, infrastructure decisions significantly impact speed and cost. Building the underlying platform from scratch—integrating agent frameworks, workflow orchestration, monitoring tools, and governance systems—typically requires 6-18 months of engineering effort. Shakudo compresses this timeline to days by providing a pre-integrated environment with 200+ AI and data tools, including popular agent frameworks and orchestration platforms. Teams can focus on designing agent interactions and business logic rather than solving infrastructure challenges. Additionally, Shakudo's deployment model keeps all data and processing within customer environments, addressing security and compliance concerns that often delay or block AI initiatives in financial services, healthcare, and government sectors.

Architecture and Design Principles

Designing effective multiagent systems requires balancing autonomy with control, specialization with flexibility, and performance with cost. CIOs must make foundational architecture decisions that will shape the system's capabilities, maintainability, and scalability for years. Poor choices at this stage create technical debt that becomes increasingly expensive to remedy as the system grows. Successful architectures share common principles: modularity to enable agent reuse and replacement, clear communication protocols to prevent coordination failures, robust error handling to manage exceptions gracefully, and observability to maintain visibility into agent behavior.

The first critical decision involves agent granularity: how specialized should individual agents be? Overly broad agents become monolithic and difficult to maintain, essentially recreating the problems of single-agent systems. Overly narrow agents create coordination overhead, with dozens of handoffs required for simple tasks. The optimal approach assigns each agent a cohesive domain with clear boundaries. In a customer service system, appropriate agents might include customer authentication, order retrieval, inventory checking, refund processing, and communication. Each handles a distinct capability that other processes can reuse. Avoid creating agents for every minor subtask or combining unrelated functions simply to reduce agent count.

Communication architecture determines how agents share information and coordinate actions. Message-based architectures, where agents exchange structured data through queues or event streams, provide loose coupling and enable asynchronous operation. This approach works well for workflows where steps can proceed independently and eventual consistency is acceptable. Request-response patterns, where agents wait for replies before proceeding, suit processes requiring strict sequencing or immediate validation. Most enterprise multiagent systems employ hybrid approaches, using asynchronous messaging for independent operations and synchronous calls for dependencies. Regardless of pattern, establish standard message formats, include metadata about context and priority, and implement retry logic for transient failures.



Communication architecture patterns in multiagent systems: asynchronous messaging vs. synchronous request-response and hybrid approaches.

Orchestration strategy governs how agents coordinate to accomplish business objectives. Centralized orchestration uses a coordinator agent or workflow engine that directs traffic, invokes agents in sequence, and manages state. This approach provides clear visibility and control but creates bottlenecks and single points of failure. Decentralized orchestration allows agents to discover and invoke each other based on published capabilities, enabling more flexible and resilient systems but making behavior harder to predict and debug. Most production systems use centralized orchestration for critical workflows where predictability matters and decentralized patterns for exploratory or adaptive processes. The key is making this choice explicitly rather than allowing it to emerge organically, which typically results in inconsistent patterns that complicate maintenance.

Governance and guardrails prevent agents from taking undesirable actions. Define explicit boundaries for agent authority: which decisions can agents make autonomously, which require confirmation from other agents, and which must escalate to humans? Implement circuit breakers that halt agent operations when error rates spike or behavior deviates from expected patterns. Establish audit trails that capture every agent decision and action, creating accountability and enabling post-incident analysis. For high-stakes operations like financial transactions or regulated processes, require multi-agent consensus where independent agents must agree before actions execute, reducing the risk of individual agent failures causing harm.

Platforms like Shakudo provide architectural advantages that accelerate development while reducing operational risk. Rather than integrating disparate tools for agent frameworks, message queues, workflow orchestration, monitoring, and logging, Shakudo offers these capabilities as pre-integrated components within a unified environment. Teams can experiment with different agent frameworks like LangChain or CrewAI without rebuilding infrastructure, switch orchestration approaches as requirements evolve, and leverage built-in observability tools to understand agent behavior. This flexibility is particularly valuable during initial implementations when architectural patterns are still emerging and requirements frequently change. Additionally, Shakudo's deployment within customer-controlled infrastructure ensures that

sensitive data never leaves the organization's security perimeter, addressing concerns that often complicate architecture decisions in regulated industries.

Scalability considerations become critical as multiagent systems expand from pilot projects to enterprise-wide platforms. Design for horizontal scaling, where additional agent instances can be deployed to handle increased load rather than requiring vertical scaling of individual components. Implement resource pooling so multiple workflows can share agent capacity efficiently rather than provisioning dedicated agents for each process. Monitor performance continuously to identify bottlenecks before they impact user experience. Plan for versioning and graceful upgrades, as agent capabilities will evolve over time and workflows may depend on specific agent behaviors. The architecture must support coexistence of multiple agent versions during transition periods and provide clear migration paths to updated implementations.

Security, Governance, and Compliance

Multiagent systems introduce security and governance challenges that extend beyond traditional application security. Agents operate with significant autonomy, access sensitive data across systems, make consequential decisions, and interact with external services. Without robust controls, these capabilities create risks: unauthorized data access, unintended actions with business impact, compliance violations, and exposure to adversarial manipulation. CIOs must establish governance frameworks that enable agent innovation while maintaining security, auditability, and regulatory compliance. This balance is non-negotiable for regulated industries where gaps can result in fines, reputational damage, or operational restrictions.

Authentication and authorization form the foundation of multiagent security. Each agent requires a verified identity and clearly defined permissions that limit access to only the data and systems necessary for its function. Implement the principle of least privilege rigorously: an agent handling customer inquiries should access order information but not payment processing systems. Use identity federation and single sign-on where possible to avoid proliferating credentials across agents. For sensitive operations, require multi-factor authentication or agent-to-agent confirmation before executing high-risk actions. Regularly audit permissions to identify and revoke excessive access as agent roles evolve.

Data protection within multiagent workflows requires careful attention to information flow. Agents often aggregate data from multiple sources, creating concentrations of sensitive information that become attractive targets. Encrypt data in transit between agents using TLS or equivalent protocols. Apply encryption at rest for any data agents persist, whether in logs, caches, or intermediate storage. Implement data classification schemes that tag information by sensitivity level and enforce handling requirements automatically. For example, agents processing personally identifiable information should apply anonymization or pseudonymization techniques when data is used for analytics or reporting rather than operational purposes.

Audit trails provide accountability and enable compliance demonstration. Capture every agent decision, action, and data access with sufficient detail to reconstruct workflows and investigate incidents. Include context about why actions were taken, which rules or models informed decisions, and what alternatives were considered. Structure logs for queryability, enabling security teams to answer questions like "which agents accessed customer financial data in the past 30 days?" or "what actions did agents take during the outage window?" Retain audit data according to regulatory requirements, which may span years for certain industries. These records serve multiple purposes: compliance reporting, incident investigation, performance analysis, and continuous improvement of agent behaviors.

Compliance frameworks vary by industry but share common requirements that multiagent systems must satisfy. Financial services organizations face regulations like SOC 2, PCI-DSS, and industry-specific rules requiring documented controls, data residency, and audit capabilities. Healthcare providers must comply with HIPAA, which mandates strict limits on protected health information access and requires business associate agreements with any vendors processing patient data. Government contractors operate under FedRAMP and other frameworks with extensive security controls and continuous monitoring requirements. Understanding these obligations shapes architecture decisions, particularly around data sovereignty and vendor relationships.

For organizations in regulated industries, where data is processed becomes as important as how it is secured. Many compliance frameworks restrict data storage or processing in third-party clouds or require that data never leave specific geographic regions. This creates challenges for AI deployments, as many platforms operate as SaaS services that process data in vendor-controlled environments. Shakudo addresses this constraint by deploying entirely within customer infrastructure—whether private cloud, VPC, or on-premises data centers. All agent processing, data storage, and orchestration occurs within the organization's security perimeter, maintaining data sovereignty while still providing the integrated tooling and rapid deployment benefits of a platform approach. This architectural choice eliminates entire categories of compliance concerns and accelerates security reviews that otherwise delay or block AI initiatives.

Governance frameworks establish decision rights and escalation paths for agent operations. Define clearly which roles can deploy new agents, modify agent behaviors, or grant permissions. Implement approval workflows for changes to production agents, including testing requirements and rollback procedures. Create cross-functional governance boards that include security, legal, compliance, and business stakeholders to review high-risk use cases and ensure alignment with organizational policies. Establish processes for monitoring agent behavior continuously and responding to anomalies, including predefined thresholds that trigger alerts or automatic shutdowns when agents deviate from expected patterns.

Key governance components include:

- **Change management:** Version control for agent configurations, documented approval processes, automated testing gates
- **Risk assessment:** Evaluation frameworks for new use cases, classification by business impact and regulatory sensitivity
- **Incident response:** Procedures for investigating agent errors, communication protocols, remediation requirements
- **Continuous monitoring:** Real-time dashboards tracking agent performance and security metrics, automated alerts for anomalies
- **Periodic review:** Regular audits of agent permissions, policy compliance checks, effectiveness assessments

These governance structures may seem bureaucratic but they are essential for scaling multiagent systems beyond pilot projects. Organizations that skip governance during early implementations inevitably face crises when agents cause incidents, and the resulting lockdowns often stall AI initiatives for months while controls are retrofitted. Building governance in from the start enables confident expansion across high-value use cases while maintaining the visibility and control that executives, auditors, and regulators require.

Measuring ROI and Scaling Success

Demonstrating tangible value separates successful multiagent initiatives from expensive experiments. CIOs face scrutiny from CFOs and boards who have witnessed numerous AI pilots that consumed resources without delivering measurable impact. To secure continued investment and expand multiagent deployment across the enterprise, you must establish clear metrics, track them consistently, and connect outcomes to business objectives. This discipline also provides the feedback loops necessary to improve agent performance and identify additional high-value use cases.

Effective measurement begins before deployment by establishing baselines. Document current-state metrics for processes targeted for agent automation: cycle time, error rates, cost per transaction, employee hours consumed, and customer satisfaction scores where applicable. Capture these metrics over sufficient time periods to account for variability and identify trends. Without credible baselines, claims about improvements lack context and credibility. Many organizations discover during baseline measurement that processes are less efficient than assumed, which strengthens the business case for transformation.

Financial metrics provide the most direct ROI visibility. Calculate total cost of ownership for multiagent implementations, including platform licenses or infrastructure, development effort, ongoing maintenance, and any external services like API calls to foundation models. Compare this against costs eliminated through automation: reduced headcount needs, lower error rates preventing rework, faster processing enabling revenue recognition or cost avoidance, and decreased reliance on expensive legacy systems. For a typical enterprise use case, payback periods of 6-12 months are common, with ongoing annual savings of 40-60% compared to manual processes or traditional automation approaches.

Operational metrics reveal efficiency gains and identify improvement opportunities. Track cycle time reductions for automated workflows, measuring both average and variance to ensure consistency. Monitor error rates and exception frequency, as increases may indicate agent configurations that need refinement. Measure throughput improvements to quantify how much additional volume the organization can handle without adding resources. For processes involving human handoffs, track how often agents escalate to humans versus resolving issues autonomously, with the goal of minimizing escalations over time as agent capabilities mature.

Customer-facing use cases require satisfaction and experience metrics. Deploy surveys measuring customer satisfaction with agent interactions compared to traditional service channels. Track first-contact resolution rates to assess whether agents solve problems completely rather than requiring multiple touches. Monitor sentiment analysis of customer communications to detect frustration or confusion that might indicate agent shortcomings. These qualitative measures complement operational metrics and help prevent optimization for efficiency at the expense of experience quality.

Employee impact deserves careful attention, as workforce transformation is both a benefit and a challenge of multiagent deployment. Measure how agent automation affects employee roles: are people freed from repetitive tasks to focus on higher-value activities requiring creativity and judgment? Track employee satisfaction and retention, particularly for roles most affected by automation. Monitor skill development as employees transition from task execution to agent oversight and continuous improvement. The goal is demonstrating that multiagent systems augment human work rather than simply eliminating positions,

which builds organizational support for broader deployment.

Scaling from initial use cases to enterprise-wide deployment requires systematic expansion while managing risk. After proving ROI with pilot implementations, identify the next wave of use cases using lessons learned from early deployments. Prioritize processes where similar agent patterns can be reused, accelerating development and leveraging proven capabilities. Establish centers of excellence that codify best practices, provide training, and support business units implementing multiagent solutions. Create libraries of reusable agents and workflows that teams across the organization can adapt rather than building from scratch.

Technical scalability depends on platform capabilities that support enterprise-wide deployment. Organizations need environments that can manage hundreds of agents across dozens of workflows, provide consistent monitoring and governance, and scale infrastructure elastically as demand grows. Building this platform internally requires significant engineering investment and ongoing maintenance. Shakudo provides an alternative approach, offering enterprise-grade capabilities—workflow orchestration, monitoring dashboards, governance controls, resource management—as integrated platform services. Teams can deploy new multiagent workflows in days rather than waiting for platform engineering backlog, while IT maintains centralized visibility and control. This combination of agility and governance is essential for scaling beyond pilot projects to enterprise-wide transformation.

Cost management becomes increasingly important at scale. Foundation model API calls can generate substantial usage charges when agents make frequent requests or process large context windows. Implement cost monitoring and establish budgets for agent operations. Optimize agent prompts to minimize token usage without sacrificing quality. Consider fine-tuned models for high-volume use cases where training investment pays off through reduced per-request costs. Evaluate open-source alternatives to commercial APIs for applications where data sensitivity or cost structures make proprietary models impractical. Platforms like Shakudo facilitate these trade-offs by providing integrated access to multiple foundation models and enabling teams to switch between options based on use case requirements without rewriting applications.

Communicating success builds momentum for continued investment. Create executive dashboards that present key metrics in business terms rather than technical jargon: cost savings, revenue impact, customer satisfaction improvements, employee productivity gains. Share case studies internally that demonstrate how specific business units benefited from multiagent deployment, providing concrete examples that other leaders can relate to their own challenges. Present results to boards and investors as evidence of AI maturity and competitive positioning. This storytelling, grounded in rigorous measurement, transforms multiagent systems from IT initiatives into strategic assets that differentiate the organization in the market.

Ready to Get Started?

Shakudo enables enterprise teams to deploy AI infrastructure with complete data sovereignty and privacy.

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Book a demo: shakudo.io/sign-up