



KPMG AI Technology

Deliver the technology infrastructure and data needed to launch and scale Gen AI and classical AI



AI should now be a business requirement — getting there is the challenge

While 75% of organizations are already achieving business value from their AI, only 33% have been able to achieve this at scale.[†] Implementing AI at scale is often hampered by challenges that are more than about the technology itself. The opportunity to operationalize AI at scale should begin with developing a sustainable and adaptable AI technology foundation that transitions your organization from an intelligent organization to an autonomous enterprise.

Getting the foundations ready:

Multiple components should be in place to help you activate your AI technology environment:



Strategic alignment and leadership — Your technology approach and decisions (e.g., buy versus build) require a clear vision, dedicated resources, executive sponsorship and alignment with business, technology and risk.



Data foundation — A good data foundation is a prerequisite for successful AI model results. Enterprises should have good quality, curated datasets of unstructured and structured data that are well maintained, fresh and properly governed.



Technology architecture — Transitioning AI models and agents from Proof of Concept to production requires a scalable infrastructure that can handle increased data loads for seamless performance. By leveraging cloud technologies and containerization, along with leading tools and techniques for data integration, this architecture ensures that AI agents operate efficiently and deliver accurate decisions at scale.



AI operations and governance — AI monitoring, performance, security, and governance should be part of your technology stack with the aim of ensuring AI outputs meet performance, privacy, bias, and trust requirements — even as models are updated.

Questions you should consider:

- Can you execute against your AI roadmap with confidence?
- Are you able to quickly adopt and implement new AI technologies to stay competitive?
- Do you have a trusted platform that can sustain the AI of today and tomorrow?
- Do you have a cost-efficient AI deployment strategy to drive growth and value?
- Do you have a robust data foundation and core data services to support AI initiatives?

KPMG AI Technology helps you evolve as your business scales adoption of AI:

Horizon 1 — Intelligent organization (Enable people)

Select AI strategic alliances, deploy infrastructure for standard AI tools, introduce simple custom models, provision curated data for retrieval augmented generation (RAG), capture metadata, develop adoption analytics, evolve cloud strategy and guardrails.

Horizon 2 — AI-powered processes (Enable AI in work)

Evolve the AI infrastructure for agents, build an AI development 'factory', select and train complex models, curate enterprise wide data to enhance AI agent capabilities, establish multi-model and multi-modal capabilities to expand AI agent utility, increase investment in cybersecurity.

Horizon 3 — Autonomous enterprise (Evolve the enterprise)

Deploy AI fueled inter-organization workflows, deploy AI agents across the ecosystem, utilize consolidated ecosystem data, evolve foundation to support new emerging technology (quantum), transform FinOps for Gen AI/LLMs.

[†]Source: January 9, 2025: KPMG AI Quarterly Pulse Survey - High hopes, high hurdles, and the pursuit of realizing value in 2025

KPMG AI Technology helps you strategically deploy AI into production:

Strategize

Set your vision for AI Technology:

Collaborate with organizational leaders to help uncover strategic areas of potential AI transformation and explore technology vendors.

Architect

Design the architecture capabilities and operating models for success:

Define AI solutions that can enable scalability and are resilient to evolving business needs.

Orchestrate

Create an AI roadmap:

Prioritize initiatives and develop project roadmaps and backlogs.

Mobilize

Equip teams with required tools:

Provision platforms, applications, and models. Enable observability to help track, analyze, and optimize the performance and reliability of AI models and infrastructure.

Deliver

Implement tech solutions:

Design, develop, test, and deploy AI solutions in alignment with business goals, including configuration of data and technology foundations, data integrations, AI patterns, and model security.

Run

Optimize transformation:

With a governed model and data drift detection in place, AI systems help maintain consistent performance and can continue to ideate new tech solutions.

Potential benefits for you:



Build a data foundation for AI with real-time metadata and knowledge graphs that power 'data as a product' and provide the necessary data infrastructure for AI systems to function effectively.



Connect with KPMG professionals for business knowledge injection and modelling work, addressing output control complexities.



Implement the KPMG defined framework for Gen AI training, RAG and fine tuning, addressing output control complexities.



Utilize KPMG professionals' experience to deploy a tailored Gen AI solution, addressing complexities, optimizing training, and integrating within your environment.



Refine performance assessment techniques, using a combination of metrics tailored to specific use cases.

Why work with KPMG firms?

- Our deep industry and domain experience.
- We bring AI into our every day to elevate the experiences of our clients and our people.
- Our responsible approach to designing, deploying, and using AI helps accelerate value with confidence.
- Our portfolio ecosystem of alliances and startups are central to helping our clients achieve a sustainable competitive advantage.

Learn more

Contacts

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Designed by Evalueserve | Publication name: KPMG AI Technology | Publication number: 139960-G | Publication date: October 2025