Deliver AI at scale with a modern data platform

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The AI revolution demands a new data foundation

The rapid rise of AI, including Agentic AI and autonomous automation, is pushing enterprises to rethink their data architecture. Legacy systems often struggle to scale and meet the real-time demands of AI. Organizations that modernize now have an opportunity to transform competitively, scale AI initiatives, drive efficiencies, and unlock new revenue streams.

Traditional data architectures are no longer fit for purpose—they were built for historical analytics and static reporting. Data architecture for an AI-driven enterprise must be intelligent, autonomous, and operate in real time. Modern AI governance programs require organizations to reimagine data lineage and stewardship, and those attempting to retrofit legacy architectures often face significant investment needs.
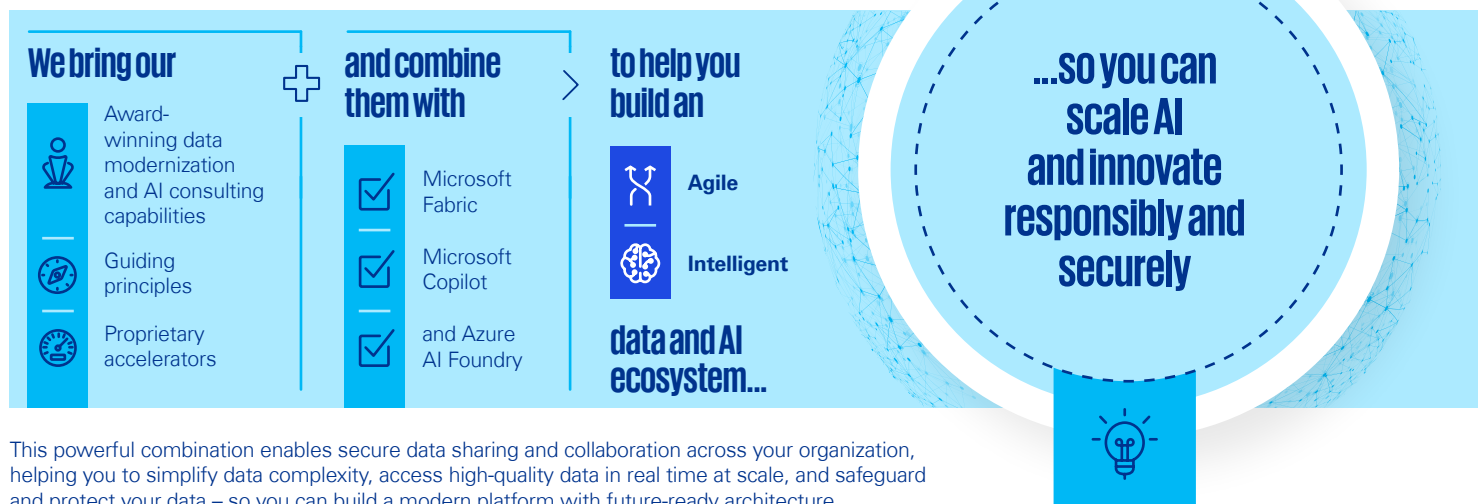
Data is the fuel for AI—but only if it is accessible, high-quality, contextual, and available in real time. One of the biggest challenges facing organizations today is fragmented, inconsistent, and disconnected data. This barrier can prevent them from scaling advanced AI effectively.

Reimagine your data platform

KPMG LLP is empowering organizations to reimagine their data platforms enabled by the Microsoft technology ecosystem.

We help you envision and design an intentional data architecture to strategically enable the right data to power your high-value AI.

We bring our
- Award-winning data modernization and AI consulting capabilities
- Guiding principles
- Proprietary accelerators

and combine them with
- Microsoft Fabric
- Microsoft Copilot
- and Azure AI Foundry

to help you build an
- Agile
- Intelligent

data and AI ecosystem...

...so you can scale AI and innovate responsibly and securely

This powerful combination enables secure data sharing and collaboration across your organization, helping you to simplify data complexity, access high-quality data in real time at scale, and safeguard and protect your data – so you can build a modern platform with future-ready architecture.

Guiding principles for an AI-native architecture

KPMG knows how to set you up for success. We start by applying a set of guiding principles designed to build a sustainable, scalable data ecosystem that supports both analytics and autonomous AI agents.

01 Productized

Creating reusable data products with enriched metadata and descriptions to accelerate AI development and create scalability.

02 Multi-modal

Treats all data types—structured, text, image, video, audio, and their derivative AI-native representations (e.g., vector embeddings)—as first-class citizens, processed in unified pipelines.

03 Unified

Provides a single access point for data (including derivative data) and AI services, reducing fragmentation and friction.

04 Semantic

Applies business meaning and context to data. This is achieved by creating a rich semantic layer, often powered by a knowledge graph, that connects data assets and makes them intelligible to AI agents.

05 Dynamic

Adapts to evolving data and feedback from AI systems to improve over time and helping to identify new data derivatives to create.

06 Governed, secured and trusted

Builds trust, safe, reliable, explainable, and validated AI solutions and services.

Architecture components to guide your ecosystem

Our principles inform specific components of your architecture, helping you decide what services to use and how to integrate them into your overall platform.

| Unified Storage Layer (The Lakehouse) | Value Creation Engine (AI-Native Processing) | Intelligent Serving Layer | Automated and Federated Governance Layer |

A trusted approach

KPMG and Microsoft bring an established, trusted approach that combines program management, technical integration, and change management.

We help organizations establish strong governance and risk management, align stakeholders, and smoothly integrate with existing technologies. By clearly defining KPIs and ROI, **we enable you to:**

Track success

Meet privacy and compliance requirements

Build a robust data foundation for AI-driven innovation