

Evidence-Backed AI Powered Application Modernisation

A KPMG Service for G-Cloud 15



KPMG About us

KPMG is one of the largest AI Platforms & Cloud Engineering Advisory and Implementation providers in the UK. We bring end-to-end services across the entire cloud life-cycle from Strategy and Planning, to Architecture and Build, through to running Secure cloud-native applications. This is enabled by our diverse, industry-leading and multi-disciplined experts.

 AI Platforms & Cloud Engineering in its 10th year	 1000+ AI Platforms & Cloud Engineering Team (670+ Engineers & Architects, 500+ Advisory & Delivery consultants)	 2000+ AI & Cloud certifications in Azure, Google, AWS	 £30M + AI Platforms & Cloud Engineering spend supported annually	 600+ AI Platforms & Cloud Engineering projects completed	 50%+ Focused on highly regulated industries
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AI Platforms & Cloud Engineering Practice

- Deep domain experience across a wide range of Cloud providers and technologies
- Leading and award-winning scaled engineering capability
- Long established consulting approach and methodologies

Our Principles

- Industrialised approach reusing assets and accelerators
- Automate everything
- Deliver value for money
- Pride ourselves on high quality outcome deliverables

How we Operate

- Sprint based projects for fast iterative results
- Delivering with our clients using outcome focused multi-disciplinary teams
- Strong, established network to ensure partnering excellence

Our Core Propositions

Besides the core propositions we deliver **240+** services mentioned in our Service Catalogue

Operational Excellence 	AI Powered Modern Platform 	Modern Engineering 	Value & Sustainability 	AI Powered Application Modernisation 
• Cloud CoE & Target Operating Model • Cloud Programme Risk and Assessment • Cloud Maturity Assessment	• Cloud Design, Build, Migrate & Transform • Cloud Risk Controls & Cyber • Cloud Security Architecture	• DevOps & DevSecOps • Secure SDLC • Site Reliability Engineering (SRE)	• ESG • Sustainable Technology • Cloud Cost Management & Financial Optimisation (FinOps)	• Gen AI • Cloud Data & Analytics • Logging and Monitoring

Across our many delivery centres, we work with clients of all industries, specialising in complex, high risk or regulated sectors.



Combining our expertise with our alliance tech solutions, we harness the power of smart technologies. Together, we solve your most complex business issues to create sustainable success.



AI Powered Application Modernisation



Service Description:

KPMG's evidence-backed AI-Powered Application Modernisation leverages GenAI and cloud-native technologies to transform legacy systems, enhancing scalability, security, and innovation speed. KPMG's software engineering team utilises GenAI to automate code re-engineering and accelerate delivery, solving complex challenges for clients and internal operations with increased efficiency and reduced risk.



Service Categories

- AI Education, Strategy & Governance
- AI-Enabled Delivery, Automation & Operations
- Observability Foundations
- Security Operations & AI Automation
- AI Strategy, Governance & Readiness
- AI Engineering, Platforms & Application Modernisation



Service Benefits

Clear Insight Into Legacy Systems

AI-enhanced logic extraction reveals embedded business rules, enabling faster, low-risk modernisation decisions.

Accelerated Shift to Modern Code

AI-supported code conversion transforms legacy codebases into modern, maintainable architectures with significantly less manual effort.

Stronger Governance Through Transparency

Intelligent data lineage maps system dependencies and data flows, improving confidence, compliance and control during transformation.

Reliable Knowledge Capture

AI-generated documentation creates accurate, structured artefacts that reduce reliance on legacy expertise and support long-term maintainability.

Higher-Quality Modernisation

AI-assisted test data generation improves test coverage and reduces defects by producing realistic, compliant datasets.

Faster, More Dependable Releases

Agent-based automated testing and remediation identifies issues early and applies targeted fixes, improving release speed and stability.

Meaningful Cost Savings

Modernisation powered by automation delivers 40–60% cost savings.

Meaningful Cost Savings

50% reduction in implementation timelines, accelerating value realisation



Service Features

AI Strategy, Data Foundation & Technology Enablement

Aligns AI priorities with business goals while establishing the data, platform and technology foundations for scale, including modern data platforms, governance, cloud value optimisation and secure, scalable architecture.

AI Solutions, Transformation & Responsible Adoption

Designs and delivers tailored AI solutions, enabling organisational change, workforce readiness, value realisation and responsible adoption supported by strong risk and operating-model controls.

Log & Security Operations Optimisation

Improves log collection, SIEM/SOAR policies, automation, incident response and infrastructure efficiency through best-practice guidance.

Data Modernisation & Governance

Delivers strategy, architecture and migration support, strengthened by governance, data quality and effective visualisation.

Code Conversion

Modernises legacy codebases into contemporary languages and frameworks.

Logic Extraction

Extracts business logic from legacy systems for accurate transformation.

Agent-Based Automated Testing

Intelligent agents execute tests, detect issues and apply automated fixes.

Our Approach

KPMG proposes a well-defined approach that will assist in delivering a customised solution that meets your requirement. Using our global framework, industry experience and methodologies, we guide organisations through the complexities of GenAI implementation, fostering sustainable and impactful deployment across diverse geographies.



Requirements

Foundational Inputs & Environment Readiness

Access to source code, documentation, architecture diagrams, configuration details and cloud environments, supported by required permissions, pipelines, SME input and representative test data with validation criteria.

Clear Requirements & Scalable GenAI Architecture

Defined objectives, functional needs and modernisation scope, with selected foundation models and secure, scalable GenAI patterns for logic extraction, code conversion, documentation generation and automated testing.

Cloud Logging & Monitoring Readiness

Consistent log and telemetry collection with scalable storage, real-time analytics, dashboards and automated observability workflows.

Data Governance, Security & Risk Alignment

Defined security requirements, governance frameworks, access policies, compliance standards and guardrails for responsible AI usage and data handling.

Business-Aligned Use Case Definition

Capture data patterns, personas and workflows, prioritising AI use cases with clear success metrics and validation checkpoints.



Activities

Assess AI Readiness & Identify Targets

Assess AI maturity and architecture using static analysis, logic extraction, lineage mapping and documentation generation, prioritising high-value modernisation candidates with clear scope and success criteria.

AI-Assisted Code Conversion & Remediation

Perform AI-assisted code conversion, refactoring and remediation, generating automated tests, updated documentation and validation artefacts to ensure accuracy and maintainability.

Prototype, Validate & Optimise Workloads

Prototype and validate workloads with performance, accuracy, resilience and compliance checks, delivering proof-of-value outcomes for go/no-go decisions and scaling.

Target-State Design & Operational Enablement

Create target-state designs, modernisation roadmaps and operational guidance, defining patterns, guardrails and operating models for AI-assisted development.

Data & Analytics Modernisation

Modernise data pipelines, quality controls and governance foundations to enable real-time insights and scalable AI innovation on cloud-led platforms.



Outcomes

Modernised, Cloud-Ready Applications and Workloads

Applications, APIs and data workloads modernised into secure, maintainable, cloud-ready architectures using AI-assisted conversion, remediation and testing. Modern frameworks and controls improve performance, resilience and compliance.

Accelerated AI Adoption & Enterprise Readiness

Clear visibility of AI readiness with prioritised opportunities aligned to business value. Teams adopt AI-assisted development at scale, supported by 3–5 validated proofs-of-value each quarter.

Trusted, Scalable Data & AI Foundations

AI solutions operate on a secure, governed and observable platform, enabling automated enterprise processes.



High-Level Timelines

Timeline is based on our experience of delivering similar engagements. Once instructed, we will work with you to create and agree a bespoke plan, which should show benefit within two weeks and typical engagements are 6 weeks to 6 months.

Why KPMG



Top Professional Brand

KPMG has a strong brand and excellent reputation. We are focused on customer needs and have a pragmatic approach for the design and delivery of our Projects. Our team has a proven track record of delivering similar engagements and an intimate knowledge of challenges faced by our clients.



Constructive Input and Challenge

We consider it to be our responsibility to bring an independent perspective and constructively challenge existing processes and systems. We will highlight and share with you both internal and external leading practices.



We Employ a Collaborative and Integrated Team Approach

We deliver a full suite of evidence-backed recommendations in collaboration with KPMG sector and technical experts in all parts of our business around the globe. By working in multi-disciplinary teams, we can deliver holistic thinking and insights for even the most complex challenges.



We Have Strong Relevant Recent Credentials

We have worked across multiple industries and will bring insights from other sectors to challenge your thinking. We have vast Cloud and DevOps expertise within our technology practice in the UK region alone, who cover everything from hosting strategies to building landing zones. We produce agile, resilient and efficient IT functions that support the wider enterprise.

Our Team, Stories and Solutions

Business Outcomes Powered by Cloud

Our Solutions

Cutting-edge technology, business focused solutions

Our Stories

Discover the impact we've made in the Cloud industry

Our Insights

What are the big issues at the top of your business agenda? Read our latest thinking and research to stay on top of change.

AI and Machine Learning

Thought-leadership, expert analysis, and guidance on all things AI.

AI and Machine Learning

Technology and innovation

Trusted insights and actionable advice on emerging technologies.

Technology and Innovation



The CEO Guide to AI Value



Agentic AI: the what, the why and the how

And many more....

KPMG Industry Analyst Recognition

Industry analysts recognition and accolades - KPMG Global



Microsoft Partner of the Year for 2023
Microsoft Prestige Award for Supplier of the Year



KPMG named a **Global Leader** in Verdantix Green Quadrant: **ESG and Sustainability Consulting 2024**



Global Partner of the Year 2024
Google Cloud DE&I Partner 2024



2x Guinness World Records for DevOps and Cloud Upskilling

DevOps upskilling in KPMG and the community



2020, 2021, 2022

Highly Commended / DevOps Leader of the Year 2023



The Forrester Wave™: Cybersecurity Consulting Services in Europe, Q1 2024





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