

Digital Twin Solutions

A KPMG Service for G-Cloud 15



Introduction to KPMG's Digital Twin Solutions

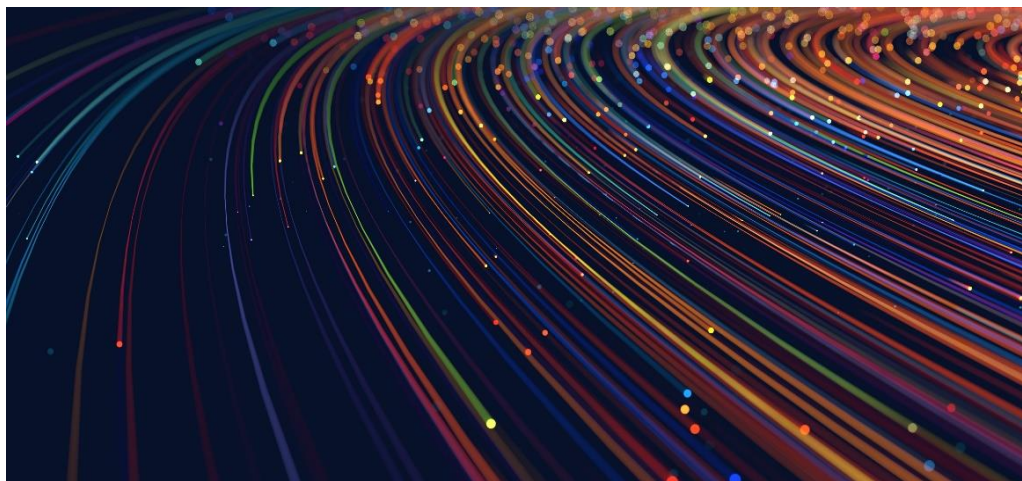


Service Description:

KPMG's Digital Twin Solutions Service provides end-to-end consulting and implementation support for asset-intensive organisations seeking to leverage the power of digital twin technologies.

Digital Twins are changing the way we work and interact with our assets. As a virtual representation of a physical system or asset in enabling opportunities in simulation, predictive analytics, monitoring, planning and energy management.

Digital twins can improve efficiency, productivity, and safety by providing timely insights into the performance of assets and processes.



What are the benefits of KPMG's Digital Twin Solutions service?

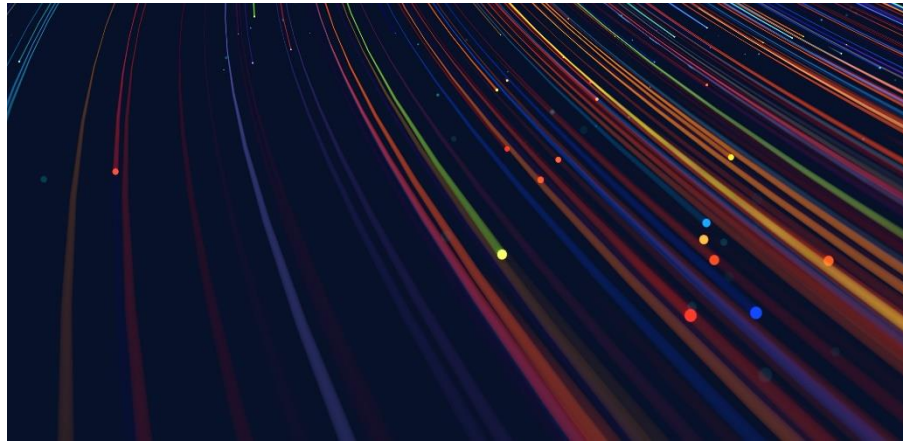
- **Deep organisation knowledge:** We provide enterprise-ready accelerators aligned with KPMG's best practices and insights to fulfil your organisation's unique needs and objectives.
- **Cutting edge technology:** Leverage cutting-edge tools and methodologies to ensure successful digital twin implementation and sustained value creation.
- **Global reach:** Gain access to our global network of digital twin experts spearheading digital twin initiatives worldwide.
- **Alliance partners:** We bring a vast ecosystem of digital twin partners to quickly identify the right solution and mobilise resources efficiently



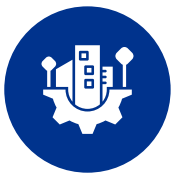
Our service features

- **Business Case:** Development of a compelling business case for digital twin adoption, aligning it with your organisational goals and priorities.
- **Strategy Development:** Digital twin vision and strategic roadmap aligned with your organisational goals and priorities.
- **Solution Architecture:** Design and configure Digital Twin solutions, select the right systems, and integrate data, IoT, BIM, GIS, and enterprise platforms into a unified ecosystem
- **Implementation:** Deliver full end-to-end implementation including setup, configuration, system build, testing, and rollout into live operations.
- **Adoption & Ongoing Support:** Support organisational adoption through training and change management, and provide continuous optimisation, updates, and lifecycle support.

KPMG Approach



Our approach takes a strategic perspective, combining the best of infrastructure advisory with knowledge of the technology landscape and a focus on outcomes to identify solutions that drive sustainable value



Infrastructure

Deep infrastructure expertise across multiple sectors...

- Our global infrastructure network keeps us at the forefront of Infrastructure Advisory good practice
- We work with large, complex asset-intensive organisations across multiple sectors and asset classes
- We understand what it takes to go beyond the ISO standards, and where there is value in doing so

Technology

...plus data, analytics and digital capabilities...

- Helping you navigate the complex technology and systems landscape
- Market leading digital and data analytics approaches
- Partnerships and accelerators for all key systems and vendors

People

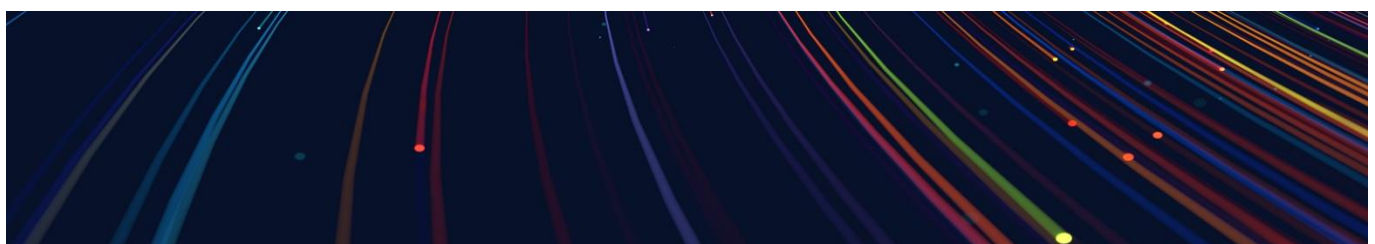
...with a focus on people...

- Delivering sustainable change by focusing on your people and embedding a digitally-driven approach to infrastructure management
- Bringing experience through certified asset management, operations and digital specialists, who have made this happen in highly regulated industries.
- A global presence across 150 countries, with resources and expertise to serve clients around the world.

Value

... to deliver better outcomes and organisational impact

- Building the case for change and securing stakeholder sponsorship
- Improving productivity, organisational effectiveness and efficiency and the channels to 'cash out' and unlock value
- Managing and delivering change to deliver long-term organisational transformation



Why KPMG

KPMG's leading organisational tools and methodologies combined with our deep understanding of the Digital Twin landscape enables improvements that last

Digital Twins are changing the way we work and interact with our assets. As a virtual representation of a physical system or asset in enabling opportunities in simulation, predictive analytics, monitoring, planning and energy management. Digital Twins can improve efficiency, productivity, and safety by providing timely insights into the performance of assets and processes.

KPMG's Digital Twin Solutions Service provides consulting and implementation support across Strategy, Delivery and Assurance to enable a full end to end solution for organisations seeking to leverage the power of Digital Twin technologies.

01

Strategy and Planning

- Climate resilience
- Decarbonisation
- Integrated health system
- Defence strategies
- Education ecosystem

02

Operations and Delivery

- Predictive maintenance
- Energy management
- A&E / hospitals bottlenecks
- Traffic flow management
- Airport / port operations

03

Assurance and Reporting

- ESG reporting
- Certification
- Compliance
- Fire Safety
- Physical Security

Our work to date

KPMG's powerful combination of leading business transformation expertise and End to End Digital Twin deployment enabling clients to drive increasingly valuable outcomes.



Using advanced **data integration and analytics**, we delivered a **Digital Infrastructure Twin** for a major water utility, unifying asset, performance, geospatial and operational data into a single, high-fidelity model. The solution enables real-time network visibility, predictive risk identification, and scenario-based planning, helping the utility **optimise asset performance**, **reduce operational overheads** and **strengthen resilience** across its network



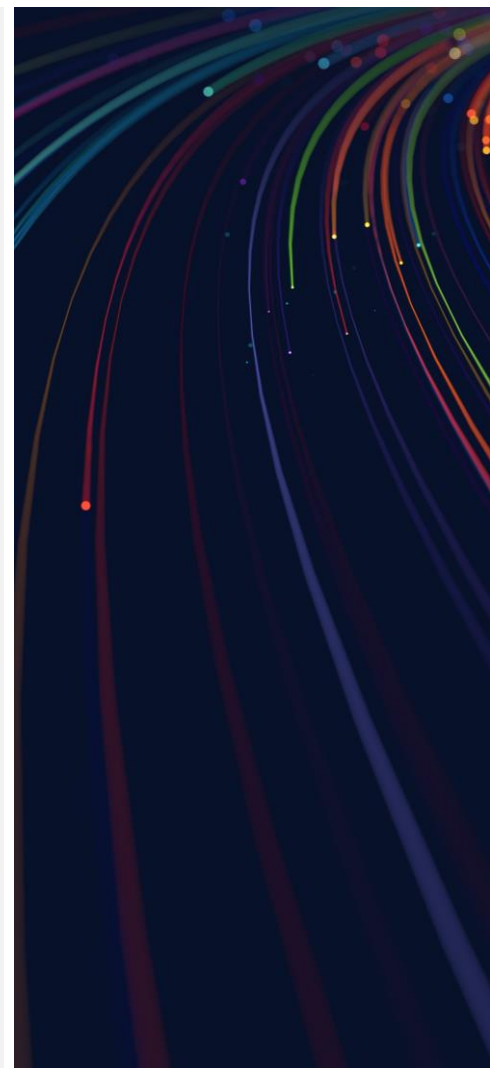
We partnered with the **Centre for Digital Built Britain** to create a **Digital Twin (DT) Toolkit** to support organisation on their digital journey. The Toolkit comprises of a use case framework, case studies, business case template and roadmap; providing the reader with a basis for defining their use cases, and whether a DT can (and should) help achieve their business drivers. Working alongside a consortium of solution providers and consultants, our role in developing the Toolkit has enabled us to **leverage existing and new relationships to gain a broad and deep understanding of DTs**, and **shape the industry's digital transformation**.



Leveraging AI and predictive analytics, we developed a **Digital Twin model** to optimise turbine blade angles and nacelle positioning for a 200-turbine wind farm for a renewable energy provider. The solution **increases energy output**, **reduces operational costs** and demonstrated **tangible ROI**.



KPMG supported a **defence client** on their Engineering Support Transformation programme. We led one accelerator project focussed on a **'Digital Twin Methodology'** for their aviation fleet, using an older, non-digitized aircrafts as a test bed to explore the implications of exploiting developed digital twins to improve maintainability, reduce downtime and increase availability.





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