

Digital Twins Advisory

A KPMG Service for G-Cloud 14



Digital Twins Advisory



Service Description:

KPMG's Digital Twin Advisory 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 Digital Twin Support?

- 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.
- Discover Assessments:
 Maturity assessment,
 technology evaluation
 and selection and
 benchmarking of current
 capabilities across
 KPMG's six layers model.
- Implementation:
 Deployment support for digital twins including change management, workforce upskilling and ongoing support.
- Integration: Optimise technology and supplier ecosystem, systems architecture design, ontologies and data modelling.

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 and Asset Management Advisory good practice
- We work with large, complex assetintensive organisations across multiple sectors and asset classes
- We know what it takes to innovate in infrastructure 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

Value

...with a focus on 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

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KPMG's Digital Twin Advisory 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 deep Smart Buildings understanding delivers impactful, sustainable improvements.



The **Connected Places Catapult** is the Government's innovation agency for cities, buildings, transport, and place leadership – driving innovation in construction and leveraging commercial and R&D funding. KPMG provided project management, stakeholder engagement and digital twins SME input on a number of high-profile projects.

- Vision and roadmap for Connected Digital Twins in Transport by 2035
- · Connected digital twins learning modules



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.**



We supported a **defence client** in the creation of their synthetics business case by identifying and quantifying the opportunities that digital twins, modelling and simulations provides to existing revenue streams, new revenue streams and cost efficiencies. We applied KPMG knowledge and public information to their baseline to identify the benefits and costs of expanding their existing capabilities.



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-digitised 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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