

Digital Twins integration and platform development

Service definition



Answer

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Table of contents

Table of contents	2
Company overview	3
How we do it	3
Digital Twins integration and platform development	4
Pricing	6
Contact details	6

Company overview

We're driven by technology and innovation, and by their ability to create meaningful change for organisations and the communities they serve. As a proudly independent and employee-owned consultancy, we bring together a diverse, highly skilled team who thrive on tackling complex challenges, working closely with our clients to deliver solutions that make a real difference.

We partner with organisations across multiple sectors, using data, AI and digital to help turn ambition into outcomes. Our work is recognised by leading industry bodies, reflecting our consistent focus on delivering clear, customer-centred results that stand up in the real world.

How we do it

With over 25 years of experience delivering digital transformation, Answer Digital supports organisations through complex change, with deep expertise in cloud-led delivery. We work in close partnership with our clients to innovate responsibly, embed best practice, and deliver outcomes that last.

Every engagement is different, so we build teams around the challenge, not a fixed model. We start by understanding the vision, the users, and the outcome that really matters. From there, we design solutions that fit your technology landscape, tools, roadmap and people.

Collaboration sits at the heart of how we work. We establish ways of working that are sustainable for teams, processes and practice, then iteratively design, build and test together. We continuously learn, refine and evolve, keeping a clear focus on delivering the right outcome, not just shipping technology.

Digital Twins integration and platform development

Service description

Consultancy to design, build and integrate enterprise digital twin platforms, applying advanced simulation and AI to real-time data to create dynamic virtual representations of physical assets. We securely integrate with legacy systems and data estates to enable evidence-based operational decision-making. Delivered using Answer Digital's agile, product-led engineering approach.

Features

- Digital Twin architecture aligned to CDBB Gemini Principles
- Real time data ingestion from IoT sensors, SCADA and enterprise systems
- Integration of physics based simulations and AI/ML predictive models
- Seamless interoperability with existing ERP, EAM and GIS platforms
- Development of 3D visualisations and immersive dashboard interfaces
- Secure data exchange implementation using standard APIs and ontologies
- Scalable cloud native platform development (Azure, AWS, GCP)
- Bi directional control capability for remote asset management
- Implementation of Continuous Integration/Continuous Deployment (CI/CD) pipelines
- Role based access control (RBAC) ensuring data security and sovereignty

Benefits

- Enables evidence based decision making through accurate real world simulation
- Reduces operational costs via predictive maintenance and asset optimisation
- Facilitates safe 'what if' scenario planning without operational risk
- Unifies siloed data sources into a single operational view
- Accelerates progress towards Net Zero through energy efficiency modelling
- Improves safety by reducing the need for physical site inspections
- Extends the lifecycle of critical physical infrastructure and assets
- Enhances collaboration between engineering, operations and strategic teams
- Supports smart city and connected places initiatives
- Reduces downtime through early detection of performance anomalies

Pricing

Answer Digital services are available for procurement through either Fixed Price or Time & Materials arrangements. Please refer to our Pricing Document and Rate Card for further details.

Contact details

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