

**SOLVE
SOMETHING
IMPORTANT**

Digital Twin

Service Definition Document

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Digital Twin

1 WHAT THE SERVICE IS

Our Digital Twin offering leverages cloud, data and AI technologies to create real-time virtual replicas of physical systems, enabling enhanced analysis, prediction, and decision-making. This service provides precise modeling capabilities, integrates seamlessly with IoT devices, and facilitates predictive maintenance, capacity, and performance, powered by advanced cloud-computing for scalability and efficiency.

FEATURES

- Real-time replication of physical assets for enhanced operational insight.
- Seamless integration with IoT for continuous data capture and analysis.
- Advanced analytics for predictive maintenance and operational optimisations.
- Scalable cloud infrastructure supports complex, large-scale digital twins.
- Customisable interfaces for specific industry needs and requirements.
- Automated updates to digital twins based on real-world changes.
- Comprehensive security protocols ensure data integrity and privacy.
- Supports decision-making with AI-driven insights and simulations.
- Facilitates physical assets management, enabling issue predictions and 'what-if' assessments.
- Enables collaboration and sharing of twin data across teams.

BENEFITS

- Increases operational efficiency through precise, real-time system replicas.
- Reduces downtime with predictive maintenance and anomaly detection.
- Enhances decision-making with accurate, up-to-date digital reflections.
- Lowers costs by optimising asset management and maintenance.
- Improves safety by predicting potential future system failures remotely.
- Facilitates innovative product development with rapid prototyping capabilities.
- Streamlines regulatory compliance through detailed data tracking and reporting.
- Enables sustainable practices by optimising resource use and operations.
- Provides flexibility with scalable solutions for any business size.
- Enhances customer experience through improved reliability and service offerings.

OVERVIEW

Our Digital Twin service is designed to harness the power of the cloud to build a bridge between physical operations and digital capabilities. By creating a virtual model that mirrors physical assets, systems, or processes, organisations can achieve unprecedented levels of operational insight and control. This service integrates seamlessly with IoT technologies to continuously gather data from various sensors and devices, ensuring that the digital twin evolves in real-time alongside its physical counterpart.

Utilising advanced cloud-based analytics and artificial intelligence, our Digital Twin service provides predictive insights that help in preventive maintenance and operational optimisations, thereby reducing unplanned downtime and extending asset life. The scalable nature of our cloud infrastructure makes it ideal for managing everything from small, single-asset installations to complex, multi-asset systems across various locations.

Security is paramount in our Digital Twin offering. We employ robust encryption and comprehensive data management practices to protect sensitive information while enabling powerful analysis and utility. This service not only supports enhanced operational and strategic decision-making but also empowers teams to collaborate more effectively, regardless of geographical barriers.

By providing a detailed and accurate virtual representation of physical assets, our Digital Twin service opens up a range of possibilities for businesses to innovate, improve efficiency, and reduce costs, making it an essential tool to capitalise on the benefits of digital transformation.

2 ANY ONBOARDING AND OFFBOARDING SUPPORT YOU PROVIDE

Where relevant, Leidos will adopt a consultative approach with customers to define and validate their requirements in order to determine how best to engage with the services. The onboarding and offboarding process is dependent on the specific requirements of the solution, and the delivery methodology agreed upon.

3 PRICING

Please refer to the associated Pricing Document relevant to this Service.

4 TERMS AND CONDITIONS

Please refer to the associated Terms and Conditions Document relevant for our Service Offerings.

5 FURTHER INFORMATION

Please send your requirement to publicsector@uk.leidos.com. Alternatively, if you wish to discuss your requirements in more detail, please send us the following information and we will be happy to contact you:

1. Your organisation name.
2. The name of this service.
3. Your name and contact details.
4. A brief description of your business situation.
5. Your preferred timescales for starting the work.

ABOUT LEIDOS

Leidos is a leading partner to the UK government and the Scottish government as well as having key client partners in transportation and energy. Leidos employs 1300 people across the UK supporting technology and business process transformation programmes for clients such as the Home Office, the Ministry of Defence, the Metropolitan Police Service and NATS.

The success of this work in the UK and beyond shows that we are a trusted partner in the region and that our people can deliver innovative solutions to solve the most challenging problems.

LEVERAGING OUR CORE CAPABILITIES

Our technical core capabilities define the areas in which technical excellence is critical, not only for our business, but in the work we do daily to help customers achieve the important missions on the frontlines of their industry. Explore our core capabilities [here](#).



Digital Modernisation



Cyber Operations



Mission Software Systems



Integrated Systems



Mission Operations



INCLUSION AND DIVERSITY IN LEIDOS UNITED KINGDOM

Leidos is committed to creating a diverse and inclusive workplace, where every colleague has the opportunity to contribute, share their unique ideas and talents, and be supported in their career. Explore Inclusion and Diversity in the UK [here](#).

SOCIAL VALUE

We're committed to supporting sustainability initiatives, tackling workforce inequality and STEM education by enriching the communities to our operations. Learn more about Social Value in the UK [here](#).