

G-Cloud 15 Service Description

Advanced Simulation and Modelling Services

Advanced Simulation and Modelling Services

Deliver realistic, customisable simulation environments for diverse industries, enhancing strategic decision-making, reducing costs, and accelerating product development.

Our comprehensive services span bespoke domain modelling, immersive 3D environments, advanced cybersecurity simulations, and dynamic AI-driven scenarios. This service provides innovative, cost-effective solutions for training, risk management, and improving operational efficiency.

What is the Service

Our Advanced Simulation and Modelling Services offer a suite of state-of-the-art tools designed to reflect real-world complexities in a controlled virtual environment. Leveraging standards like High-Level Architecture (HLA) and protocols such as Distributed Interactive Simulation (DIS), our simulations ensure interoperability and real-time collaboration across various systems and locations. This approach enhances the scalability and precision of simulations, making them ideal for your strategic planning and decision-making.

From creating bespoke domain models to constructing immersive 3D scenarios and executing sophisticated cyber-attack simulations, our services are crafted to foster safe experimentation, learning, and innovation. By integrating Discrete Event Simulation (DES) with technologies like Multi-Agent Systems (MAS) and Agent-Based Modelling (ABM), we offer detailed insights into operational workflows and dynamic system behaviours.

What can it do for you

Our comprehensive package spans the entire simulation lifecycle—from conceptual design to detailed analysis—enabling your organisation to enhance decision-making, reduce R&D costs, and accelerate development.

These capabilities are especially beneficial for organisations looking to optimise performance, train personnel effectively, and achieve a competitive edge through enhanced predictive analytics and risk management.

Service Features

- 1. Bespoke domain modelling for tailored use case solutions
- 2. Immersive 3D environments for realistic virtual interaction
- 3. Advanced network and cyber-attack simulation for cybersecurity preparedness
- 4. Dynamic AI-driven simulations for unpredictable scenarios
- 5. Interactive gamified simulations for effective human-machine collaboration
- 6. Digital Twins to monitor and predict asset performance
- 7. Environment sensing and state capture for training AI systems
- 8. Real-Time analytics for comprehensive simulation insight and observability
- 9. Multi-agent modelling for complex behavioural analysis
- 10. Monte Carlo simulations for detailed risk analysis

Service Benefits

- 1. Enhances strategic decision-making accuracy with critical insights
- 2. Reduces R&D costs by minimising physical prototypes
- 3. Mitigates risks through early identification and solutions
- 4. Accelerates time to market with rapid prototyping
- 5. Lowers training costs with realistic, safe environments
- 6. Offers flexible customisability to meet industry needs
- 7. Fosters creative problem-solving in cost-effective virtual setups
- 8. Tests environmental impacts without real-world resources
- 9. Maintains a technological edge, solving challenges efficiently
- 10. Provides competitive advantages with advanced technology

Contact details

End-to-end transformation and innovation experts

Applying our skills in innovation and collaboration from across the Methods Group, to deliver end-to-end business and technical solutions that are people-centred, safe, and designed for the future.

Methods provide collaborative and innovative solutions to help Central Government adapt to the changing landscape and deliver better outcomes for citizens.

With a focus on driving interoperability and innovation in UK Central Government, we have helped multiple organisations in the sector modernise their IT architecture, systems, strategy, and operating models to improve organisational resilience and service delivery.

Methods deliver wide-ranging services and thought leadership to support delivery including:



Onboarding and offboarding process



Ordering and Invoicing

Once we have agreed a Statement of Work(s) we will sign the appropriate agreement and complete a Call Off contract with an attached Statement of Work(s), and submission of a Purchase Order. We will then set up a mutually acceptable start date and commence work.

Payment terms are 30 days or less as may be agreed.

Please note - we are unable to accept Government Procurement Card (GPC) payments.



Customer Responsibilities

For any given requirement, we will identify any dependencies on the customer (e.g. access to key stakeholders, facilities, documentation, etc.) and agree these at the start of the work.

Making a difference

The work we do each day is focused on delivering a positive difference for the public sector for the benefit of society as a whole.



Customer stories

Cloud Hosting & Service Modernisation
Modernised digital services using secure cloud hosting, streamlined legacy workflows, and improved data insights. Delivered faster decisions, reduced manual effort, and a more transparent, **user-friendly experience** for internal teams and external users.

Cloud-Based ITSM Consolidation
Unified multiple service desks onto a cloud-based ITSM platform, standardising processes and automating workflows. Improved incident, change, and problem management, **boosting overall service reliability, efficiency, and organisational visibility.**

Large-Scale Cloud Migration (100+ Apps / 120TB)
Delivered cloud migration of **100+ legacy applications** and **120TB of data** with **100% availability.** Strengthened compliance, improved transparency, and significantly enhanced operational resilience across critical digital services.

Azure Migration & Modern Workplace Enablement
Migrated data centres to Azure and deployed modern workplace cloud services, delivering secure, scalable infrastructure. Achieved improved user experience, strengthened security posture, and **£1m savings** - all with zero service disruption.

Cloud ITSM Migration (ServiceNow SaaS)
Successfully migrated from a legacy ITSM tool to a modern, cloud-based ServiceNow platform. Delivered scalable, robust service operations, strengthened governance, and enabled faster, more consistent digital service delivery across the organisation.

Cloud-Native Data Pipelines (Azure Integration)
Built automated Azure Data Factory pipelines into a Lakehouse architecture, using Bronze/Silver/Gold layers and Delta with CI/CD. Delivered secure daily refreshes, improved data quality, lower manual effort, and more efficient reporting.