

Ada Mode

G-Cloud 14 Services



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Helping **government**
and industrial trail-
blazers to accelerate
the journey to **net-**
zero through the
adoption of game-
changing **AI.**

Civil Nuclear | Renewables | Marine | Manufacturing | Networks | Decommissioning



A team of engineers, scientists and developers **working in partnership** with government, OEMs and industrial pioneers to deliver:

Data Science, AI and ML Adoption

Explore how your organisation can get the most from your data and build a plan for AI adoption.

Industrial Data Engineering

Build elegant, efficient and secure data architectures to drive powerful model development and deployment. Understand your data landscape and determine how it can unlock value and accelerate business objectives. Understand data flows, track model performance and drive powerful analysis.

Simulation, Modelling and System Design

Simulate complex systems and optimise processes to support design decisions and changes to operational philosophy. Develop custom models to target specific operational challenges. Easily deploy across the business to rapidly unlock value. Monitor data pipelines and model performance.

Autonomous Systems

Build autonomous systems to improve operational efficiency, increase safety and reduce environmental impact.



Custom **industrial AI** applications delivered through



Intelligent Asset Management

Automatically achieve optimal process conditions to reduce waste and increase availability. Understand why assets are underperforming and determine how to restore productivity.

Energy Optimisation

Understand where and when energy is being consumed. Reduce demand and consumption based on the optimisation of operational processes and energy availability. Reduce CO₂ emissions and the cost of energy.

Monitoring Health and Predicting Failure

Understand the health of critical plant. Detect anomalous behaviour and direct intervention before failure. Eliminate unplanned downtime and reduce cost of maintenance.

LLM and Generative AI

Derive trends and patterns from unstructured records to guide intervention and investment. Democratise complex processes and make work-flows easier to understand.



About Ada Mode

Engineering and Data Science Experts

Our team comprises engineers, data scientists, natural scientists, and software developers. Our people have worked on some of the most challenging projects across the renewable energy, civil nuclear, utilities and manufacturing sectors.

Cross Sector Industrial Experience

We have hands-on experience of industrial operation, regulation and innovation across multiple industries and understand the day-to-day limitations and hurdles that operators face.

Focused on Operational Improvement

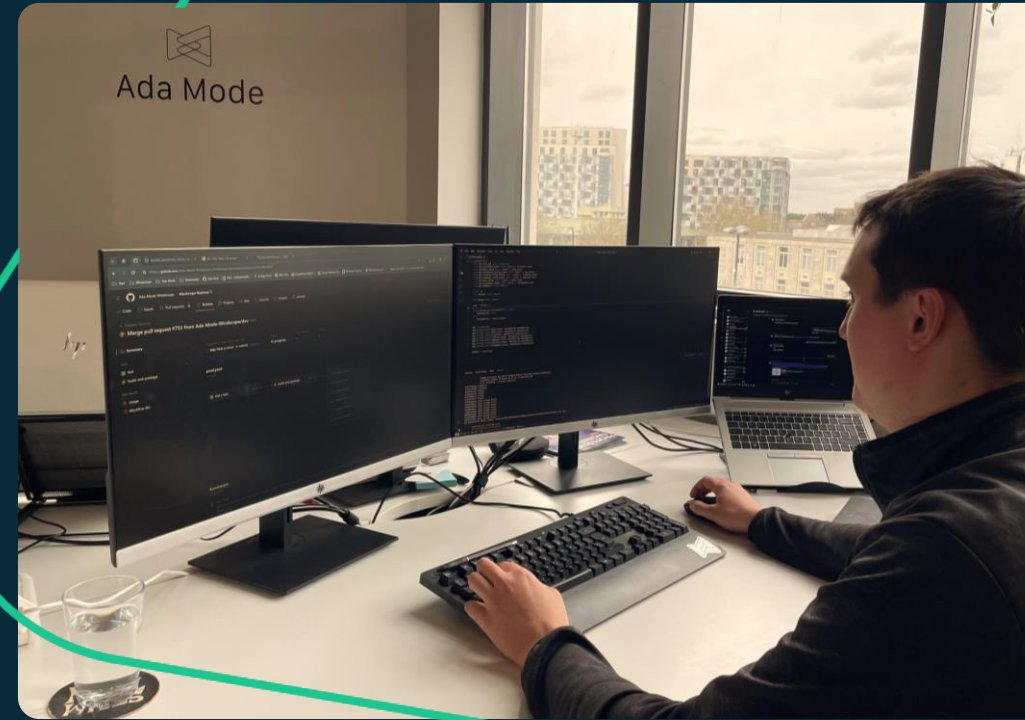
We deliver a step change in performance which is sustainable and manageable in-house once we leave.

User-centred Design and Development

We build custom solutions, tailored for specific applications and users. This ensures that what we deliver is embraced by the workforce, is sustainable and makes a powerful impact on organisational performance.

Cutting-edge Partnerships

We are partnered with leading UK universities, global consultancies and cutting-edge technology companies to ensure we remain pushing the boundaries of the possible and deliver the best performance for our customers.



Our Work

AI and ML Strategy and Roadmap Development

We developed Sellafield's AI strategy and adoption roadmap. Comprising our discover, develop and deliver framework, we produced a comprehensive plan for the adoption of AI in one of the most complex, hazardous and highly regulated organisations in Europe.

Energy Network Modelling and Optimisation

Working with DESNZ and other industrial partners, Ada Mode developed a model and optimisation tool to drive the industrial decarbonisation of the Solent region by 2050.

Data Science in Civil Nuclear Power

Ada Mode work closely with the UK's civil nuclear operator, EDF, to deliver data science solutions to improve the efficiency, safety and delivery of nuclear plant operations and new nuclear development.

Data Science and Data Engineering in Renewable Energy

We support cutting-edge offshore renewable energy technology companies to improve system design, reduce LCOE, improve output and scale their operational fleets through data science and data engineering.

Predictive Maintenance in Nuclear Decommissioning

We built a central predictive maintenance capability for one of the most complex industrial sites in the world – increasing plant availability and throughput.



G-Cloud 14 Services

Lot 2 – Cloud Software

- Data Science, Machine Learning and Artificial Intelligence
- Data Science, Machine Learning and Artificial Intelligence for Agriculture
- Data Science , Machine Learning and Artificial Intelligence for Industrial Decarbonisation
- Data Science, Machine Learning and Artificial Intelligence for Civil Nuclear
- Data Science, Machine Learning and Artificial Intelligence for Energy Networks
- Data Science, Machine Learning and Artificial Intelligence for Marine and Maritime
- Data Science, Machine Learning and Artificial Intelligence for Renewable Energy
- Ada Mode Atlas - Intelligent Asset Management for Decommissioning
- Ada Mode Atlas - Intelligent Asset Management for Renewable Energy Systems
- Ada Mode Atlas - Predictive Maintenance for Decommissioning
- Ada Mode Atlas - Predictive Maintenance for Civil Nuclear
- Ada Mode Atlas - Intelligent Asset Management for Civil Nuclear
- Ada Mode Atlas - Predictive Maintenance for Renewable Energy Systems
- Ada Mode Atlas - Intelligent Asset Management
- Ada Mode Atlas - Predictive Maintenance for Industrial Assets
- Ada Mode Atlas - Large Language Models
- Ada Mode Atlas – Multimodal AI
- Ada Mode Atlas - Energy Management and Optimisation
- Ada Mode Atlas - Computer Vision

Lot 3 – Cloud Support

- AI and ML Model Management and Re-training Services
- Artificial intelligence (AI) & Machine learning (ML) Strategy
- Artificial intelligence (AI), Data science, Analytics and Visualisation Services
- Artificial intelligence (AI) & Machine learning (ML) Application Development
- Cloud Data Pipeline and Data Engineering Services
- Artificial intelligence (AI) & Machine learning (ML) for Renewable Energy Systems
- Artificial intelligence (AI) & Machine learning (ML) for Civil Nuclear
- Artificial intelligence (AI) & Machine learning (ML) Policy and Regulation Services
- Nuclear New Build cloud data systems development services
- Energy Systems and Networks Modelling and Optimisation
- Civil Nuclear Application Design and Development
- Renewable Energy Application Design and Development
- UX/UI Design for Industrial Dashboards
- Large Language Model (LLM) Development and Deployment
- Multimodal AI Development and Deployment

Get in touch to find out more

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