

ROKE



Strategy and Digital Transformation

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Service Definition

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Strategy and Digital Transformation – Service Definition

Benefit from an innovative, creative environment that supports strategy development from a business and technical perspective to rapidly gain advantage within the digital economy. A variety of advanced technologies ranging from machine learning (ML) to the internet of things (IoT) are reinventing how organisations create value. Roke's services empower organisations to become champions of change, facilitating the derivation of ideas and concepts across the enterprise, rapidly assessed within an auditable, impartial framework, and categorised to determine where investment should be focused to add value.

Roke provides a full-lifecycle service for developing digital transformation strategies and delivering data-driven software and infrastructure change programmes. We provide business and technical support to strategy development where innovative ideas and concepts are developed from across the enterprise, assessed rapidly within a fully auditable and impartial framework, and categorised to determine where investment should be focused.

We provide a full-stack Agile software capability combined with certified cloud architects to rapidly deliver business-focused technology solutions. Roke is a member of the AWS Partner Network. This service delivers across the full range of technology research concepts from definition to exploitation.

Service Offering

- Strategy & Consultancy
- Design
- Development
- Delivery
- Support

Roke is an innovative company with expertise in business strategy, enterprise architecture, data strategy, software design and development, cyber security, data science, machine learning, human sciences, and project management. We are well placed to provide advice, analysis, and business and technical architecture, and to deploy strategic

investments in digital transformation and in the development of cloud-based capabilities.

Our consultants will work closely with you throughout the process of business and digital transformation to accurately capture your requirements, then assuredly design, develop, and support delivery of a solution that meets your needs.

With deep experience across the National Security, Law Enforcement, Defence, Central Government and Industry, Roke is well placed to understand our client's specific domain.

Detailed Service Definition

Strategy & Consultancy

Roke's consultants provide advice across the full solution lifecycle from initial strategy development to managed service support. Our team will work closely with the client to develop a business strategy with data as a key pillar and founded on a detailed maturity assessment. The strategy provides the client, Roke, and any other stakeholders with a full understanding of the 'why', 'what' and 'how' of Digital Transformation. Using our Business Analysis and Business Change expertise, we can plan and execute the design and delivery phases, with a large emphasis on business change and the people side of Digital Transformation. A part of this is developing roadmaps and detailed transition plans, ensuring that business critical processes are not disrupted. Our consulting team

continues to provide support and guidance throughout the transformation, working with Agile methods to best align a solution to the client's changing needs.

Design

Roke has designed and developed several bespoke cloud applications and provided these as managed services. Roke's certified cloud engineers and architects provide advice and architecture on best practice for security, cost effectiveness, and performance. Roke is highly experienced with cloud-based architecture patterns, for example, the landing zone pattern, and has deployed serverless solutions as well as platforms that take advantage of IaaS, PaaS, and SaaS offerings. Our security experts also provide insights to the shared responsibility model, carefully considering where the cloud provider, Roke, and the client are responsible for security in cloud deployments. We use open-source technologies to build big data architectures, exploring which options are optimal given their strengths and weaknesses, as well as the associated opportunities and threats. Roke has a dedicated team of data engineers, architects, and analysts to provide bespoke, data-driven solutions. We design and implement data lake structures for storing large quantities of varied data, fusing together multiple sources, and providing insights through bespoke analytics and dashboards. Roke is familiar with many data storage solutions and utilising open-source technologies that best suit the situation, often combining multiple sources to gain insights across a domain.

Delivery

We work closely with clients to understand the required insights from a given opportunity, designing bespoke algorithms, transformation pipelines, and visualisations. Our experts in user experience (UX) ensure a dynamic and appropriate workflow for users as they navigate applications and visualisations. Our data science experts provide analytics capabilities, including computer vision, natural language

processing, statistics, geo-based analysis, acoustic processing, and anomaly detection. We use a range of methods for data analysis from deep neural networks to big data processing technologies, utilising frameworks such as MapReduce. We deliver solutions via Agile methodologies so that new features are added iteratively, and value is realised rapidly. We follow DevOps, DevSecOps, and DataOps patterns to provide continuous integration and a framework to take rapid prototypes into production. Throughout delivery our consulting team works with the client to keep stakeholders engaged, ensure requirements and architectures are being met, and that the original strategy remains valid.

Support

Roke can provide solutions to integrate with existing architectures to be managed by clients or provide managed services. By working closely with clients, Roke can rapidly design and integrate new features to managed services and adapt as client needs change. Systems are developed with security in mind, providing monitoring and auditing capability to manage access and authentication as well as optimising cost and performance.

Key Services

Consultancy

- Digital Strategy development
- Requirements Elicitation & Management
- Business case development
- Cloud implementation & Migration planning
- Investment guidance
- Digital maturity assessment
- Stakeholder management and engagement
- Organisational change management
- Full lifecycle business change

- Transformation Roadmap development
- Cost & Performance Optimisation
- Threat modelling
- Process Modelling

Design

- Systems architecture
- Security-driven approach
- Data-driven software
- Cost and performance optimisation

Development

- Data engineering, fusion, and analytics
- DataOps

Delivery

- Automation, agility, and continuous delivery methodology
- Cloud implementation and migration
- Maximising the value of your data

Support

- Monitoring and auditing
- Managed service support and feature teams



Pioneering Technology for Global Security & Future Warfare

At Roke, we stand at the forefront of defence and security, delivering cutting-edge intelligence and engineering solutions that protect nations, troops, borders, critical national infrastructure and businesses. We bring the credibility of a long-standing defence and security leader, the precision of a specialist, and the agility to solve complex, high-stakes challenges with purpose and impact.

Roke is at the forefront of shaping the future of digital defence, intelligence, and national security.

We are Roke. We are Changing Worlds.

Roke Manor Research Ltd
Romsey, Hampshire, SO51 0ZN, UK
T: +44 (0)1794 833000
info@roke.co.uk www.roke.co.uk

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