

ROKE



Research and Horizon Scanning

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Service Definition

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Research and Horizon Scanning – Service Definition

Benefit from a range of horizon scanning and research activities, from broad environmental scans that identify emerging trends, to deep dives into technologies for specific opportunities and threats.

Roke provides research and horizon scanning services, supporting our government clients in identifying threats and opportunities across technical, societal, and legislative environments. We are an ideal partner for organisations with complex problems that must understand the current and future landscape. Roke prides itself on independence and all services are delivered with an objective, non-biased and evidence-based view.

We enable our clients to become proactive in setting policy, building/procuring technology and developing or amending legislation.

Service Offering

- Cloud-driven Horizon Scanning
- Directed Tailored Research
- Market Research & Supplier Identification
- Open-source Intelligence
- Research Capability Development
- Senior and Practitioner Briefings

Clients are supported in either a supply or a client-side model. We can provide on-demand horizon scanning and research or embed ourselves within the client to support them in building their own long-term capability. Roke has a broad range of technical experts across much of the emerging technology landscape. This includes for example Cloud, AI, Sensors, and Cyber-Security. These researchers also possess knowledge in psychology, human science, and the legislative landscape. With deep experience across National Security, Law Enforcement, Defence,

Intelligence and Industry, Roke is well placed to understand our client's specific challenges.

Detailed Service Definition

Horizon Scanning

This service provides our clients with a detailed understanding of their threat and opportunity landscape. This covers potential changes in technology, society and legislation alongside timelines and actions to capitalise. It is driven by our cloud-based HASE platform which analyses millions of academic publications. We also process pre-publications and content from industry, while being able to filter analyses to nations of particular interest. Our Big Picture tool automatically identifies growing trends, ensuring clients maintain awareness. Findings can be delivered in a range of outputs, from reports and briefings to podcasts and graphics.

Directed Tailored Research

This service provides clients with a deep understanding of a particular topic. We also outline detailed actions to mitigate threats and exploit opportunities. This is achieved through our deep technical expertise, supplemented by engagement with academia and industry. We can also include our scientometric analyses), highlighting trends over time and metrics within countries of interest. Our directed research provides a holistic view, while also

highlighting UK areas of expertise for further outreach.

Open-Source Intelligence

With the increased digitisation of our modern world, vast quantities of information can be captured from accessible sources. We combine our AI expertise with analysts from National Security, Law Enforcement, Intelligence and Defence backgrounds. Our cloud-based tools can identify hidden patterns, while our geo tech presents spatial insights. The OSINT may be unclassified, but intelligence packs can be produced at greater sensitivity.

Research Capability Development

This service supports our clients in building their own horizon scanning and research capabilities. We work closely with the client to understand their requirements for such a service. We then collaborate on designing processes and ways of working, before assessing technology tooling and developing a coherent design. The capability can be established and mobilised in parallel with this development, ensuring best use of available time. Once active, we continue ongoing support both in continuous improvement and filling technical resource gaps.

Senior & Practitioner Briefings

This service provides clients with expertise for short-term briefings, whether to senior colleagues or external stakeholders. Such content allows clients to update colleagues on emerging technologies and the associated threats and opportunities. Our service is equally adept at ad-hoc presentations (for example, at team away days) or as an ongoing briefing function. All material is tailored to the specific audience

to ensure that both seniors and practitioners receive the detail they need.

Key Services

Horizon Scanning

- Identify changes in the environment
- New trends from academia
- Automated trend detection
- Growing investments in industry
- Emerging threats and opportunities
- Actions to exploit opportunities
- Options to mitigate threats
- Filtered analyses on nations of interest
- Bespoke and innovative reporting

Directed Tailored Research

- Deep dive into specific topics
- Specific threats and opportunities
- Actions to exploit opportunities
- Options to mitigate threats
- Identification of UK academic experts
- Filtered analyses on nations of interest
- Bespoke and innovative reporting

Open-Source Intelligence

- Automated capture with AI
- Skilled analysts from client domains
- Insights from geospatial analysis
- Sensitive intelligence packs

Research Capability Development

- Requirements development
- Process design and optimisation
- Organisational design
- Governance design
- Through-life capability support

Senior & Practitioner Briefings

- Tailored briefings and reports
- Ad-hoc presentations to seniors
- Continuous briefing function

- Modern and innovative output



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.

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