

OR and OA for Military Decision Support



BAE SYSTEMS

We are Techmodal

A collaborative data consultancy, bringing the capability and creativity you need to unlock the strategic potential in your data.

As Defence and Government experts, we understand the unique complexity of your constraints. Adaptive, imaginative and iterative, we meet you where you are – and start with what you have.

We focus on making more of your existing tools and technology. Applying smart thinking and continuous improvement to uncover the insight in your data – and help you move past your stickiest problems. Optimising your investments, operations and outcomes. Maximising the impact of your resources towards a better future.

Our clients operate in high-stakes, highly technical and highly secure environments. The pace is fast; the demands are complex and the cost of getting decisions wrong is high. They need partners who bring clarity, precision and practical expertise – not complexity for its own sake.

Our value comes from combining deep analytical strength, applied technology expertise and hands-on consulting experience. We turn ambiguity into clarity and insight into action.

What we offer

We operate at the cutting edge of digital innovation and at the heart of organisations that keep vital infrastructure running, national security protected, and armed forces prepared. Our teams provide:

Decision advantage

We give organisations the insight to act with clarity and pace, ensuring choices made today hold up under tomorrow's pressure.

Our strength comes from being data-led, operationally aware and grounded in real-world context. We explore options, test scenarios and highlight trade-offs before action is taken, building confidence in complex and high-consequence environments.

Technology that works

We help organisations unlock the full value of their technology and existing investments. Our solutions are shaped to our clients' environments – secure, scalable and designed for reuse – delivering faster outcomes and greater value for money.

We stay user-driven, not technology-driven, ensuring what we build is usable, dependable and impactful.

Delivery impact

We work shoulder-to-shoulder with clients to turn ambition into results. Our approach is collaborative, adaptive and focused on rapid progress.

We build momentum early, provide clear answers before the conversation moves on and ensure delivery stays aligned to purpose. Whether defining strategy or supporting implementation, we bring clarity, structure and practical leadership.

Strength in secure and complex environments

All our work is delivered by security-cleared teams who understand the realities of Defence, national security and critical infrastructure.

We design and assure solutions that are resilient, secure and governed — engineered to work in environments where constraints are real and reliability matters.

Powered by BAE Systems Digital Intelligence

We combine the pace, creativity and agility of a specialist consultancy with the depth, reach and security of BAE Systems.

Clients benefit from a unique blend of niche expertise and enterprise-scale capability, with seamless access to Digital Intelligence, engineering, cyber and equipment programmes when required.

Service Overview

Techmodal provides Operational Research (OR) and Analysis (OA) expertise to support military evidence-based decision making at the strategic, operational and tactical levels as well as to inform policy and governance. Our services can be utilised from the start of a process in supporting the customer to understand and develop requirements; to building concept variations; develop Concept of Operations (CONOPs) and Concepts of Employment (CONEMPs), testing capabilities in different scenarios; building a through-life process; monitoring and analysing in-service capability; to reviewing and refining existing governance and doctrine. To deliver these outcomes we apply a range of analytical techniques including Multi Criteria Decision Analysis (MCDA), thematic analysis, and critical path analysis.

With experience providing analytical support across a range of domains (C5ISR, Maritime, Air, Land, Joint, Homeland Defence), our services are tailored to the requirements of the customer with regular consultations and input to ensure the best solutions to meet their needs. To ensure we can provide our services appropriately even for more secure projects, our teams are comprised of SC and DV cleared persons, appointed as required for the task, enabled by in house OFFICIAL SENSITIVE and above systems. Dependent on customer requirements, the service may also provide an embedded decision support function at a customer location.

Service Features

- Concept capability design and development
- User requirements capture
- Tailored scenario and course of action (COA) development
- Wargaming/ Tabletop exercises (TTX)
- Operational, Campaign Assessment
- Measurement of Performance and Effect
- CONOP and CONEMP development following DLOD and existing military doctrine
- High level force variation testing
- Capability roadmap development
- Create risk, impact and mitigation matrix
- Enterprise mapping a whole process or system
- Range of analytical techniques – MCDA, thematic analysis, geospatial analysis, critical path analysis, pairwise COA comparison, process mapping
- Produce dashboards to monitor and track product performance
- Design and facilitate cross-disciplinary workshops and Military Judgement Panels (MJP)
- Policy and governance review

Service Benefits

- Extensive experience in military applied analysis leading to quick assimilation with the customer and greater understanding of their needs
- In depth understanding and appreciation of military domains and ways of working
- Provides evidence based outputs – can be used to support business cases and improve capabilities and processes
- Cost saving and optimised solutions
- Understand effectiveness of current military operations, activities or policy to enable prioritisation or re-allocation of resources
- Recognised working practices to collect and manage data in a coherent and reliable way
- Appropriate clearances for analysis on higher security projects
- Appropriately cleared systems to work at OFFICIAL SENSITIVE and above

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