Systems Engineering - Defence Land Domain

Optima Systems Consultancy

At Optima Systems Consultancy we work on some of the world's most complex defence engineering challenges, using a broad Systems Thinking methodology that transcends land systems.
This fresh yet structured approach to your project means that we insist on viewing the problem end-to-end and within the widest context, ensuring that no potentially critical element is missed.

Our team of experienced consultants brings relevant defence system expertise across a range of land systems and technologies. These range from protected wheeled vehicles, infantry fighting vehicles, artillery, sensors, battlefield communication networks and Improvised Explosive Device (IED) detection.

Expertise at all stages of the system lifecycle

From early technology research through to disposal of systems, our team can assist you in applying a tailored Systems Engineering approach to reduce risk and optimise solutions.

Flexible ways of working

We can adapt our approach to meet your needs, supporting on a firm price, a time and materials basis or a blend of both. Our priority is to work with you to define the most appropriate support package and tailor the Systems Engineering approach to the nature of the complexity and risks.

Pragmatic Systems Engineering that understands the wider business context

Our approach to Systems Engineering ensures the wider business context is considered and connected to ensure maximum value from the approach and alignment with key stakeholders in other functions of the enterprises we support.

Power of our combined Systems Engineering expertise

Our engineers can reach back into an organisation entirely focussed on Systems Engineering, enabling them to access a unique bank of Systems Engineering knowledge and expertise to deliver added value to each challenge.

Systems Engineering Services

Optima
Systems Consultancy

At Optima we use a **Systems Thinking approach** to **Systems Engineering** and broader consultancy, typically applied to complex technologies and industries. Systems Thinking aims to successfully manage the complexity and risk in a multi-faceted project, defining needs through all stages from architecture and design to delivery, disposal & replacement.

Systems Engineering best practice

- Engineering process development
- Systems Engineering & Engineering Management
- System Architecture design & review
- Requirements capture & management
- Trade-off studies
- Technology Maturity & Technical Risk assessment
- Technology Roadmaps and technology insertion planning
- Trials design, planning & conduct
- Data analysis
- System Verification & Validation
- Simulation & Modelling
- Management of Interfacing Programmes & Systems
- Programme & Project Management
- Systems Engineering Training

Independent Assessment & Assurance for Acquisition & Investment

- Independent Systems Analysis & Technical Assurance
- Technology Maturity & Technical Risk assessment
- Pan Defence Lines of Development assessments
- Tender assessment management
- Options assessment & Multi Criteria Decision Analysis

Enterprise Change

- Engineering process development, best practice & training
- Governance
- Stakeholder management
- Negotiations & facilitation