



The ability to make faster and better-informed decisions, combined with access to assets that deliver quick, coordinated, and effective outcomes, is increasingly important.

This requires an integrated approach, supported by autonomy at all levels.

The changing nature of warfare

The character of warfare continues to rapidly evolve at a pace driven by conflict on our doorstep, with developments happening on the battlefield within hours and days rather than weeks and months.

UxV

The proliferation of both remotely piloted and AI enabled autonomous systems poses a serious threat to the existing defence products and capabilities.

Hypersonics

Militaries need to rapidly sense and characterise threats in order to appropriately counter them in a cost effective manner in every domain.

Cyber

Adversaries use and exploitation of deception & cyber techniques (offensive & defensive) both sub-threshold and during conflict is ever increasing.

Protection of Critical National Infrastructure is

CNI

becoming increasingly important for nations over long distances in complex territories.



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Data Synthetics Multi-domain m Integrated Combat Mass $\frac{1}{2}$ Interoperable Collaboration Disaggregated Resilient $\stackrel{0}{\leftarrow}$ Dispersed Cloud Autonomous $\stackrel{0}{\leftarrow}$ Networked Modular Assured AI/ML

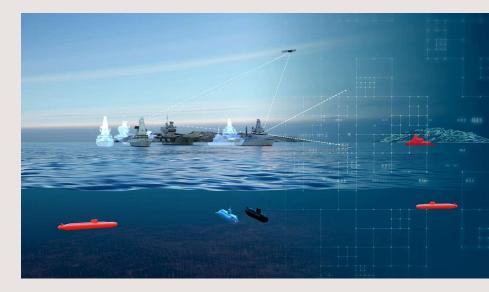
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Integrating a multi-domain battlespace...

Key challenges:

- We cannot revolutionise defence capability overnight
- New systems and equipment must be integrated with existing and be evolved over time
- Common standards are only part of the answer
 - Customer eco-systems need to be resilient to change
 - Recognised System of System boundaries & interfaces
 - Use of a **common data layer** translation & other common services
- Flexible development modular architecture as the foundation
- Identifying commonality & solutions from **adjacent industries** e.g.: Automotive, Fintech SWIFT



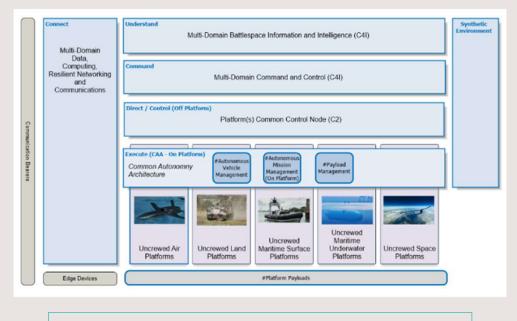
A collaborative and coherent strategy is required to achieve multi-domain integration of the battlespace



System of Systems Framework

- BAE Systems MDI development is an approach to coherent product and platform integration for a multi-domain system of systems
- The Systems of Systems Integration aims are to work across the different products and platform to:
 - Jointly develop a Common SoS Architecture model
 - Encourage coherence and alignment of products and interfaces within that architecture
 - Co-ordinate work on themes of mutual interest across the ecosystem
 - Help foster integration and co-ordinate SoS integration trials / demonstrations
 - Establish a robust SoS assurance approach

Develop SoS Architecture – Foster Integration – Generate Common Topics – Highlight Future Development Needs



Co-create & Cohere

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System of Systems Architecture

- Problem driven product solutions fitting in an open architecture to meet defence's requirements
- Common integration and test environment
- Common component libraries
- Open interfaces (in line with UK MoD
- Codeathon SME engagement and collaboration

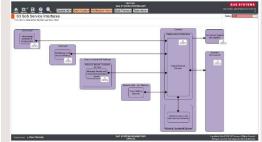






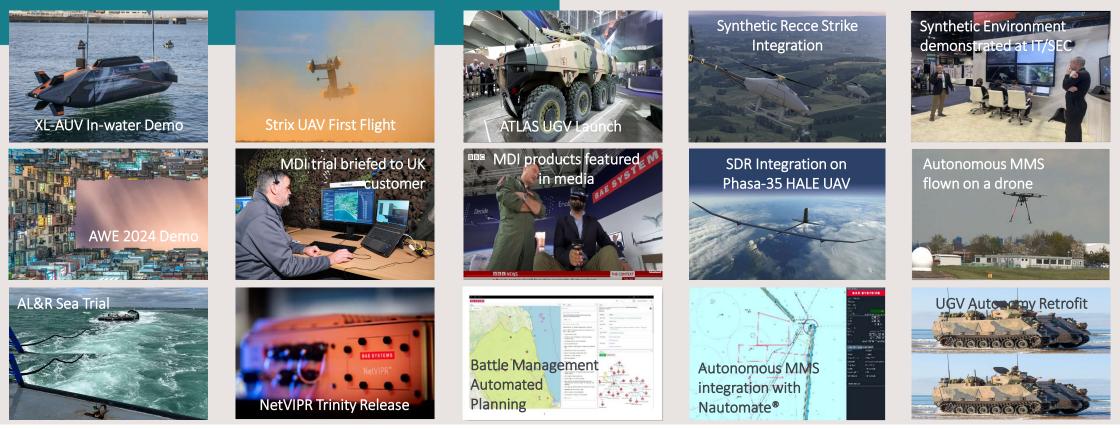






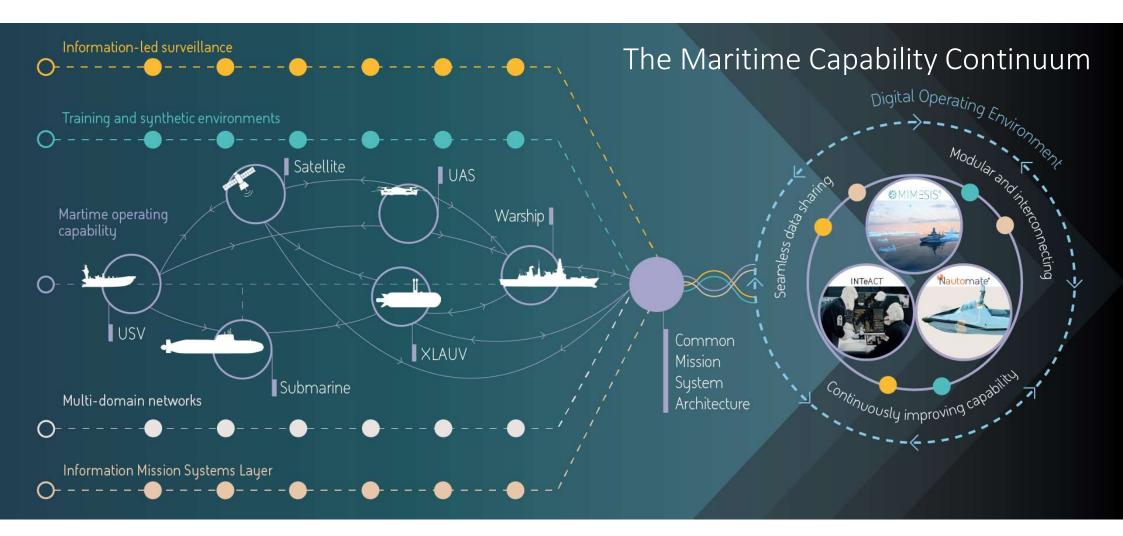


Achievements 2024



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