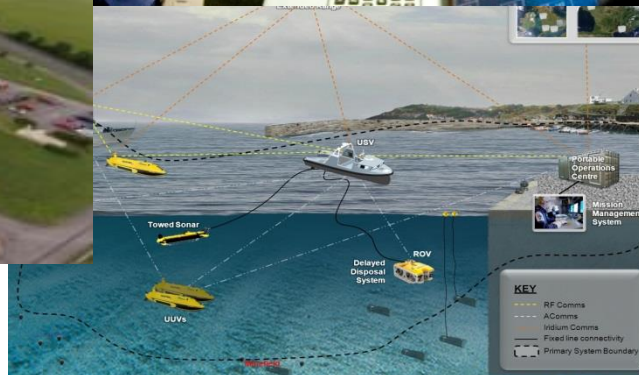


Maritime Unmanned Systems in the Solent Area

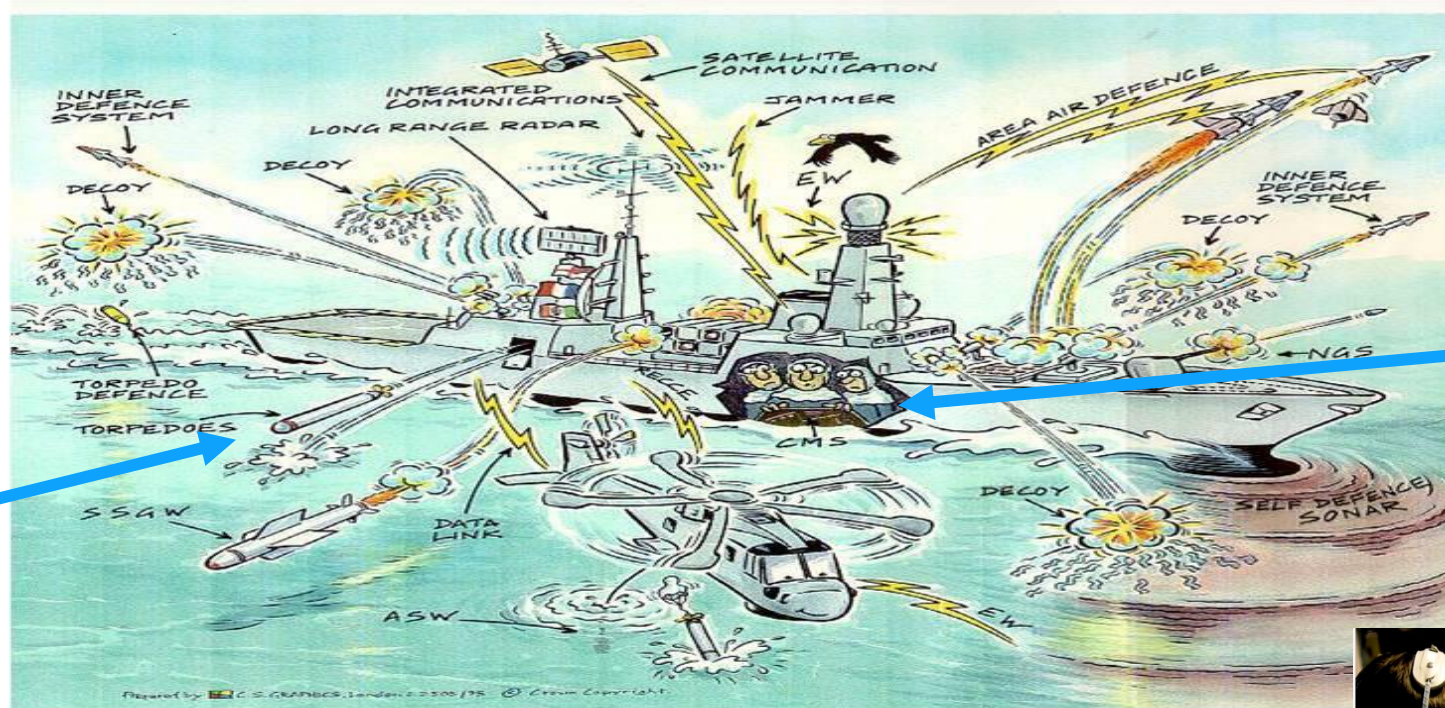
BAE SYSTEMS Maritime & Partners



Stuart Eyles

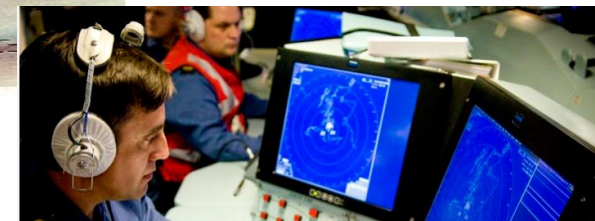
Head of Mine Warfare & Unmanned Systems
Naval Ships Combat Systems

BAE Systems Role in Maritime Unmanned Systems



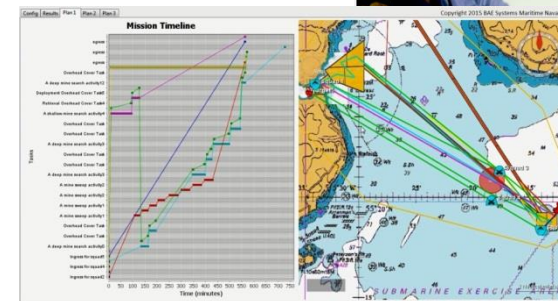
Underwater Weapons
Unmanned and Manned Boats

Command System
Planning Applications
Shared Infrastructure



MISC Portsmouth

Integration Services

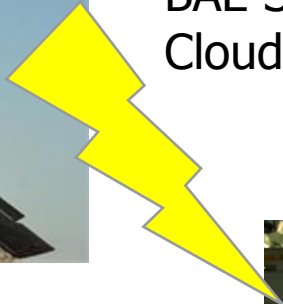


Unmanned Capability 16 – Solent June 2016



*Blackstart
Bluebear*

MarTacNet
BAE Systems, 6Harmonics,
CloudNet, Strathclyde University



Combat Management System (part of ACER)
BAE Systems



Safety & Threat Boats
ASV, MASTT



Autonomous Pac 24
BAE Systems, ASV

*MAPLE Partners
& Trials Support*
Thales, Qinetiq
& Seebyte

Pacific 24 USV (JEKYLL) (BAE SYSTEMS Maritime Services)

- 7.8m RIB Seaboat
 - As used on T23, T45, QEC
 - Single 370hp diesel inboard
 - Jet drive
 - 38kts
 - 100nm range
- Navy, Marines, Special Forces and Border Force applications
 - Surveillance, Force Protection & Anti-Submarine Warfare
 - Currently no weapon systems



Maritime Unmanned Systems - The Challenges

Concept of Operational Use

- How can Unmanned and Off-Board Systems increase maritime capability?
- What sort of concepts need to be developed?
- How can the concepts be demonstrated to the users?
- How can capability be progressively deployed in operational ships?

Technology

- Management of the suite of vehicles to achieve the operational effect.
- Information integration with the host ship and other units
- Deployment and operation from warships
- Regulation, Operational Approvals and Governance

Acquisition Arrangements

- What is the requirement?
- Regular procurement, upgrade and disposal
- Rapid integration with ships and the overall Tactical Network

Maritime Unmanned Systems - The Plans

Develop and Demonstrate Operational Capability

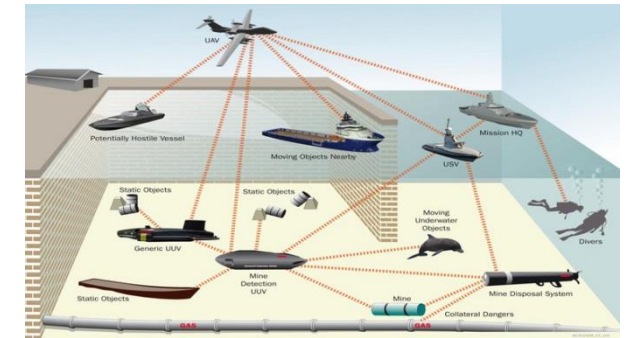
- Operational concept workshops with RN staff
- Ship trials using existing vehicles and systems
- Trials in the Solent Area, using the MISC, mobile facilities, trials vehicles and multi site communications network

Technology and Systems Development

- Information Assurance, Communications & Collaboration
- Distributed Planning and Control
- Launch, Recovery and Ship Integration



Working with Partners





Thank you

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