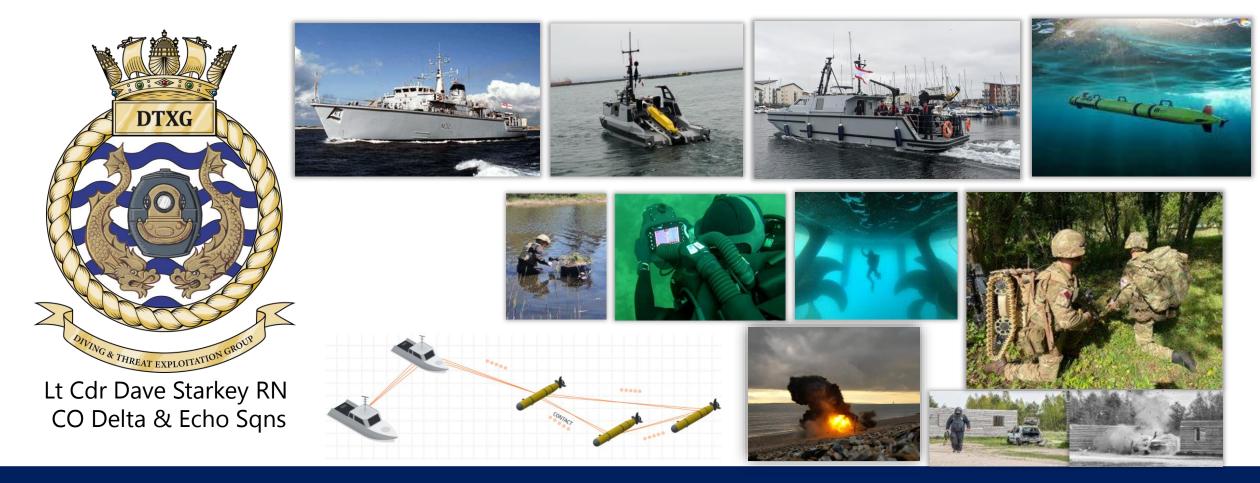
Diving and use of technology in Expeditionary MCM and Maritime EOD 21C Royal Navy

Diving & Threat Exploitation Group

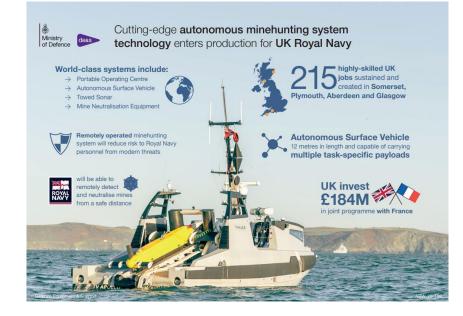


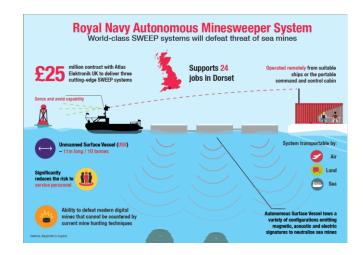
Lethality: embracing and <u>operationalising</u> technology



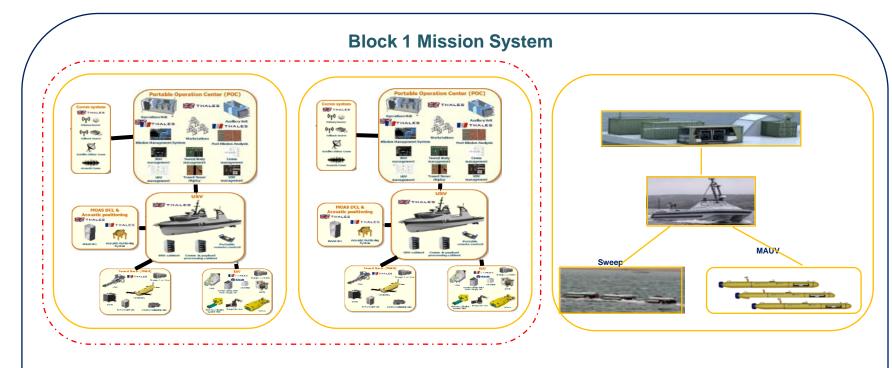
MHC STRATEGIC CONCEPT

- MHC will deliver a generational leap in Royal Navy Mine Countermeasures (MCM) capability. It will:
 - reduce risk to life
 - enable replacement of an ageing MCMV fleet
 - integrate current and future MCM technologies into a credible system of systems, scaled to meet a range of Defence requirements
- Agile and adaptable, to exploit rapid learning and keep pace with future technological development
- Deliver an autonomous mine hunting and mine sweeping system capable of being persistently deployed afloat or ashore, to meet national, NATO or Coalition requirements





MHC Block 1 Mission System







- Delivers 2 x MMCM 200m MCM MAS: Faslane and Gulf
- 2 x C2 Modules to control ASV delivered HUNT (Change/Detect) and Autonomous ROV DESTROY
- Delivers Autonomous Sweep DESTROY/DEFEAT complex mines
- AUVs to conduct discreet/covert HUNT (separate AUV programme)





Integrated

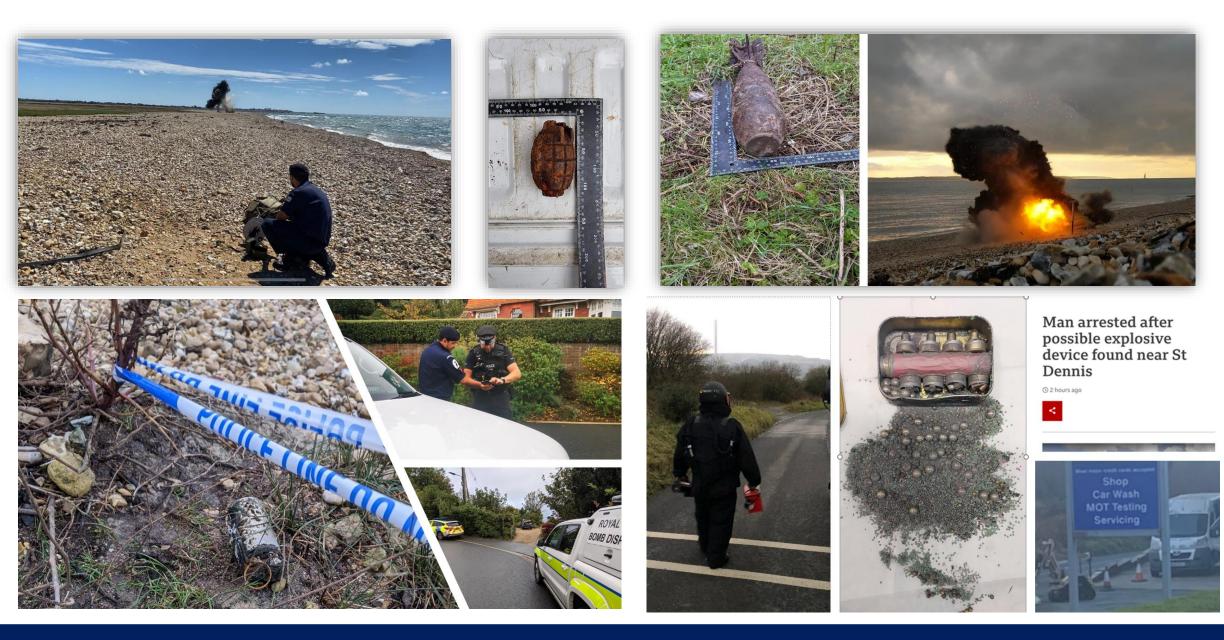
- ExMCM, diving and EOD teams integrated into the system of systems that is MHC.
- Latest bespoke software allows UK diving and UUV elements full integration and interoperability with other UK elements but also some USN elements, expanding to further NATO partners.
- MMCM, MCMV launched UUVs, DHHS, DTXG UUVs on a common data architecture – common picture, goal-based planning and asset management to deliver streamlined tasking.

- Provides an interface between land and sea, littoral operations and niche areas.
- Links wide-area clearance with the final objective.
- Provides additional FIX/FINISH capability and increases Speed of Advance for clearance operations.
- Provides resilience in contested areas and also machine failures.





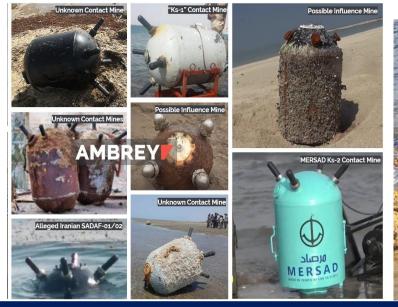
Threat Context – UK



Threat Context

#war Another naval mine YaM-type with a similar marking on the hull. In this case, it was probably used for an explosive barrier on the road in Mariupol.







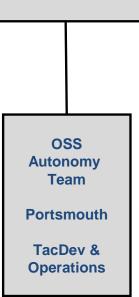




Medical Support Survival Stores

Alertment	Sea Survival	Command & Co-ordination	Surface Abandonment
Indicator Buoys PLBs SEEPIRBS SUBOPAUTH	Single/Multi Man liferafts Alertment Training Procedures Exercises	On Scene Cdr Cdr Rescue Forces Rescue Element Cdr ISMERLO	Life rafts Freeboard Extenders Survival Suits Boarding Procedures
		- China	
	A		
	Intervention ROV	Escape	IROV MOSHIP

OSS Diving Team Portsmouth Trg & Validation Ops Sp







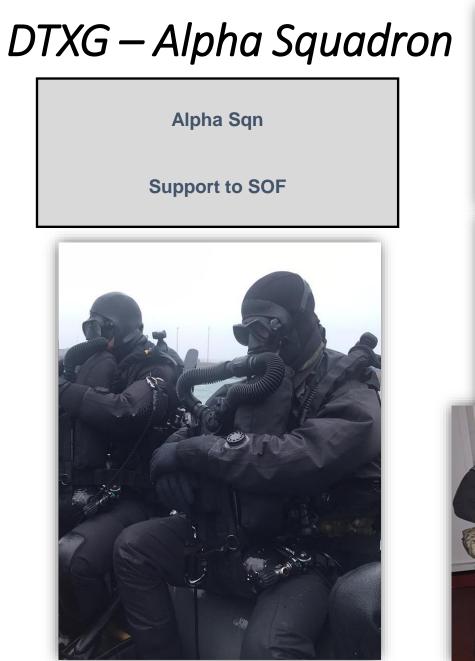


OFFICIAL

DTXG – Op Support Sqn

Operational Support Squadron (OSS) Portsmouth







DTXG – Bravo Squadron



DTXG – Bravo Squadron

German SC500 Air Dropped Weapon

East of Cowes, Solent

Joint Service EOD Task No 103616







DTXG – Charlie Squadron

Charlie Sqn UK EOD MACA

SM Fleet support NSRS





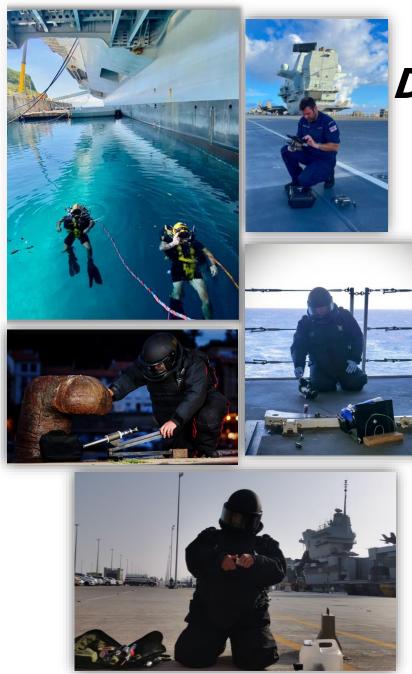












DTXG – Delta Squadron

Delta Squadron (Delta Sqn) Portsmouth

Delta Diving Unit 1 (DDU1) Portsmouth MTG QEC





Delta

Diving

Unit 2

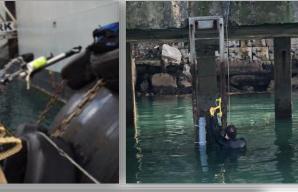
(DDU2)

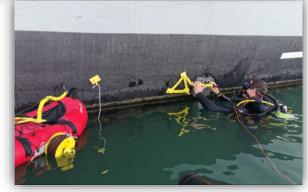
Portsmouth

Deployed

Mar-EOD









DTXG – Echo Squadron

Echo Diving Squadron (Echo Sqn) Portsmouth

Echo Diving Unit 1 (EDU1) Portsmouth Exploitation LitS

ExMCM

Echo Diving Unit 2 (EDU2) Portsmouth Exploitation LitS ExMCM









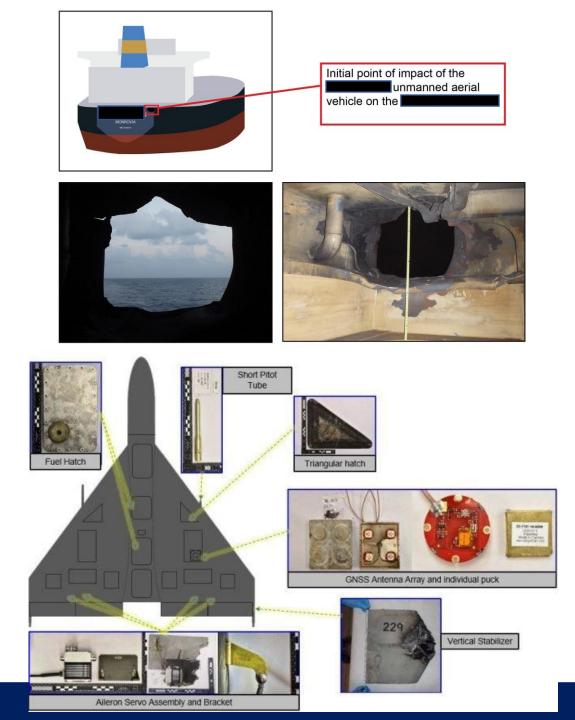




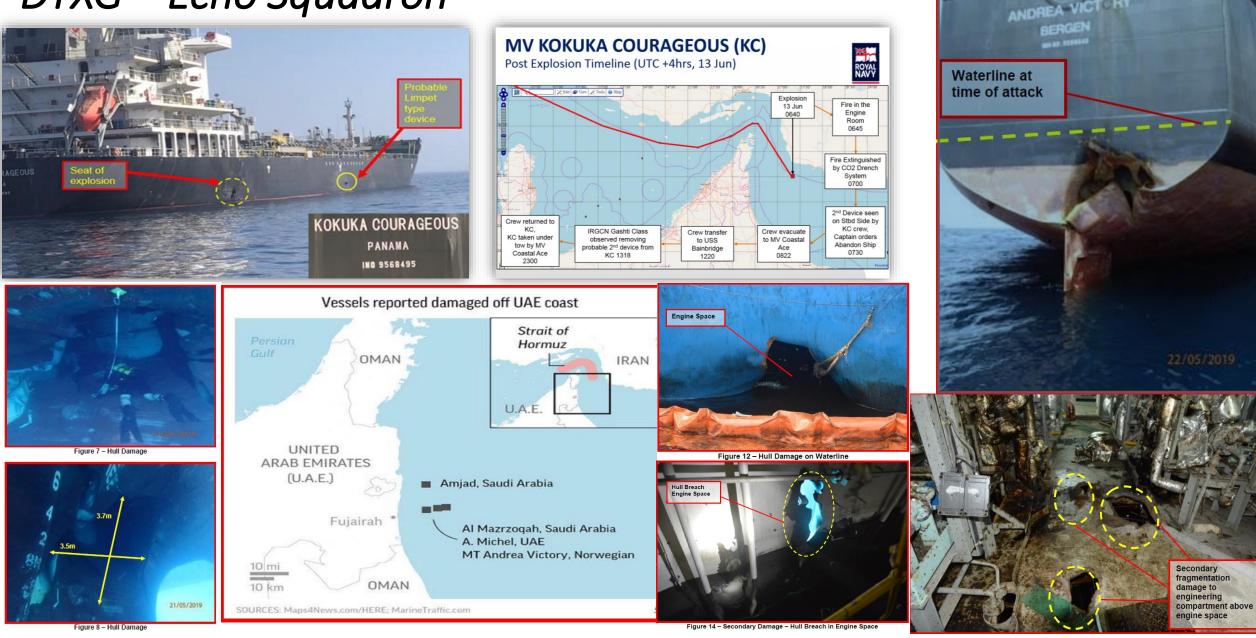
Post Blast Exploitation







DTXG – Echo Squadron



Lethality: embracing and <u>operationalising</u> technology





Questions

