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NAVY

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Exponential Change and the Royal Navy

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The Future RN – Major Programmes

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- The RN is growing
- £6Bn/yr on equipment between Navy & DNO
- Conventional platforms are not enough
- The Equipment Programme must be considered
- We need to increase Mass, Lethality and our agility
- … and exploit new technologies & processes

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An Approach to the Future Navy

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- Man an unmanned Navy
- Exploit remote and autonomous modular off board systems
- Exploit COTS & MOTS solutions in tandem with alternative acquisition strategies
- Integrate Cyber and Space Domains into the Task Group
- Develop capability to operate in satellite and EMS denied environments.
- Disaggregate & disperse the ‘sensor-decider-shooter’ in the Task Group kill chain
- Focus on meeting ambiguous and asymmetric threats to close gap

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Delivering Things Differently

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- Transformation culture
- Innovation
- Doing things differently
- Adapted acquisition strategies
- Targetted funding

DARE!

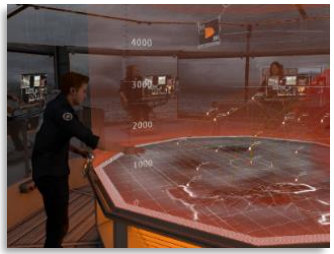
NavyX

NELSON

[dstl]

Defence and Security Accelerator

de&s



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Innovation Vision

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RN Innovation Hub – Discovery, Assessment, Rapid Exploitation

- To energise and accelerate innovation throughout the Naval Service in order to support operational capability

NavyX

Navy X

- NavyX - RN's Autonomy & Lethality Accelerator; rapid, continual transformational change in Mass and Lethality across all Maritime Environments
- Rainbow team with diverse experience to exponentially accelerate our speed of learning, our capacity to procure and integrate these best-in-class technologies, our ability to prove them in the real world at pace, and when ready, enable delivery to war fighters.





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NavyX Mission

- Exploit autonomous systems, develop experience and processes to maximise comparative technological advantage and lethality and deliver to the war fighter
- Identify opportunities and gaps, through engagement with MoD, academia, SMEs, the defence industry and the S&T community
- Enable experimental and technical integration into existing systems to initiate the early adoption of interoperable autonomous systems
- Work with the innovation ecosystem to identify opportunities to accelerate and simplify existing acquisition processes



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NavyX CONOPS

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NavyX, working closely with DE&S, will set the standard in its capacity to **procure** both COTS and MOTS hardware

i. BUY IT

NavyX will **integrate**, drawing together COTS, MOTS and bespoke hardware. Collaborating and sharing knowledge across all stakeholders

ii. CONNECT IT

NavyX will conduct rapid, and **iterative** Test & Experimentation as new equipment is added to the trusted inventory

iii. PROVE IT

NavyX will work closely with the Warfighter to constantly improve, **developing** CONEMP, CONUSE and KURs as well as DLOD interaction

iv. SCALE IT

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Operational Experimentation

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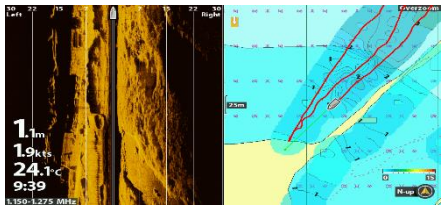
19/20 Programme

- DASA Call for MUS Innovation
- Live demonstration at DSEI
- NavyX Trials Ship
- Operational Exercises (REPMUS, AAF 2.0. etc.)
- Autonomous Seaboat
- Submarine Launched UAV
- Amphibious Mini UAV
- Tactical Precision Strike
- XL UUV
- Tethered Sensors
- Innovation Programme – 45 Projects across a broad spectrum



COMMANDO WARRIOR

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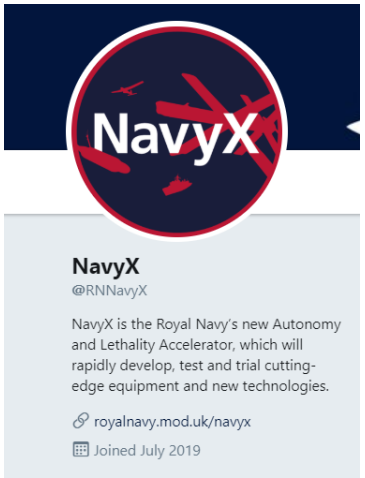
Engage

1. Follow us and access the NavyX Newsletter online through Twitter: **@RNNavyX**

2. Contact us directly through: **NAVYMARCAP-NavyXMailbox@mod.gov.uk**

3. Register your interest in participating within working groups or finding out more at: **https://NavyX_front_door.eventbrite.co.uk**



- ☑ General NavyX Updates
- ☑ NavyX Future Events
- ☑ Technology Communities of Interest
- ☑ Commercial Interest
- ☑ Policy Interest
- ☑ Calling Notice - Register your Ideas

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