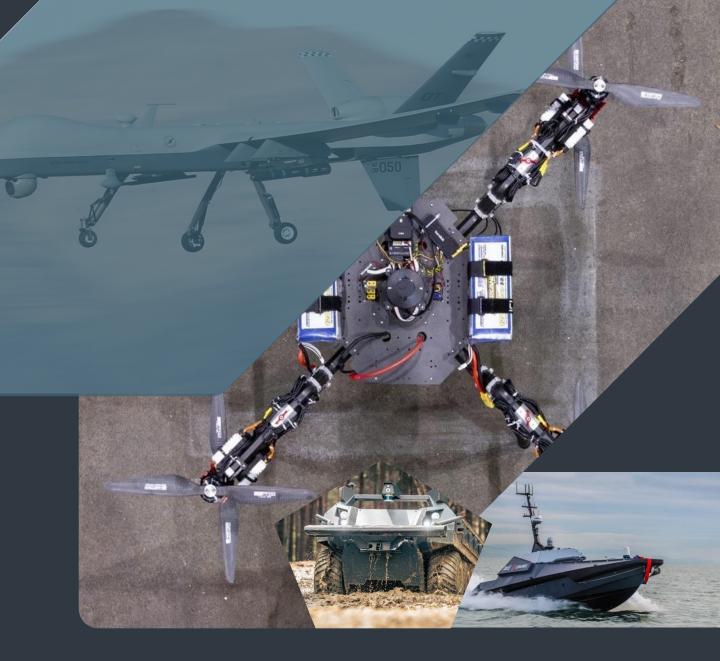


Defence Uncrewed Systems Strategy

Lt Col Si Pope Lt Cdr Eddie Devine MoD – FinMilCap



Defence Uncrewed Strategy

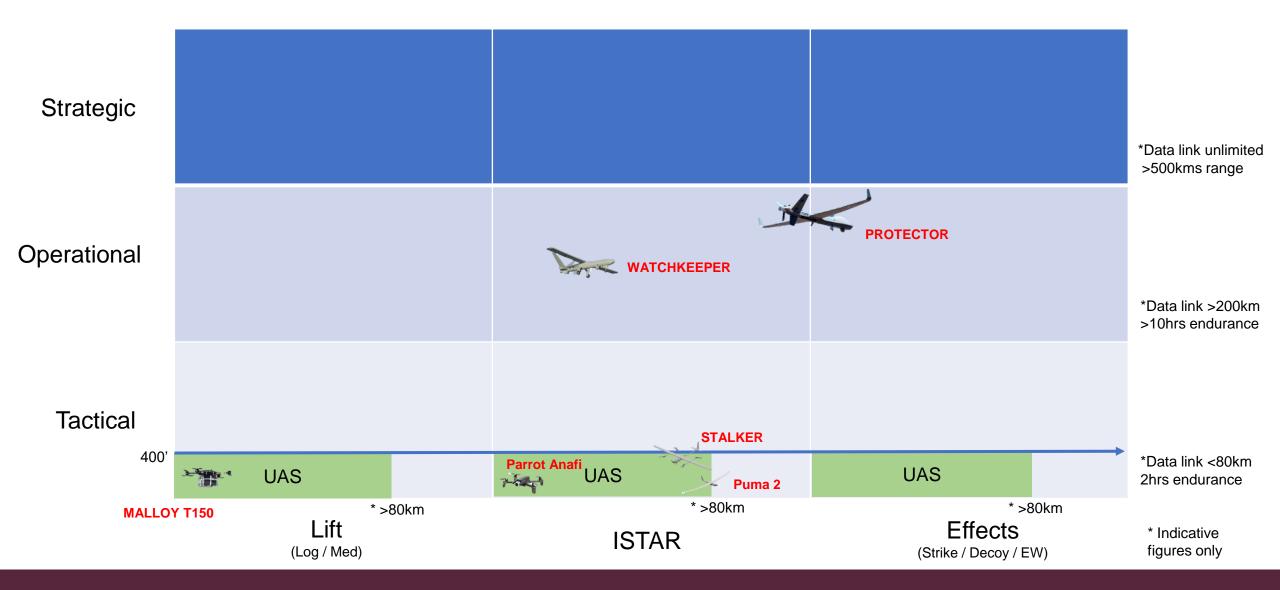


• Problem

- Defence is not achieving operational advantage in uncrewed systems due to an incoherent approach across innovation. There is a lack of decisive pull through to capability and an inability to procure at the speed of relevance, unaligned to DSIS
- Result an indefinite moratorium on Defence uncrewed spending permissions
- Opportunities
 - Achieve competitive advantage. Draw together market knowledge, R&D/operational lessons and minimise duplication and accelerate in comparison to our adversaries and the market
 - **Become an 'intelligent customer**'. In a fast moving market, be able to make clear-eyed decisions across *prosperity*, *sovereignty*, *capability* and *cost*
 - Address Defence blockers and energise UK industry. We are at an inflection point in uncrewed systems, created in part by the war in Ukraine. A rare opportunity for Defence level direction / coherence to enhance innovation and skills to unlock the potential within the sector and across Defence
- Risks
 - But... adding layers of bureaucracy will be worse than an incoherent position any Defence-level structure or solution must <u>only</u> do what <u>must</u> be done by Defence.

RPAS Uncrewed Capability Model





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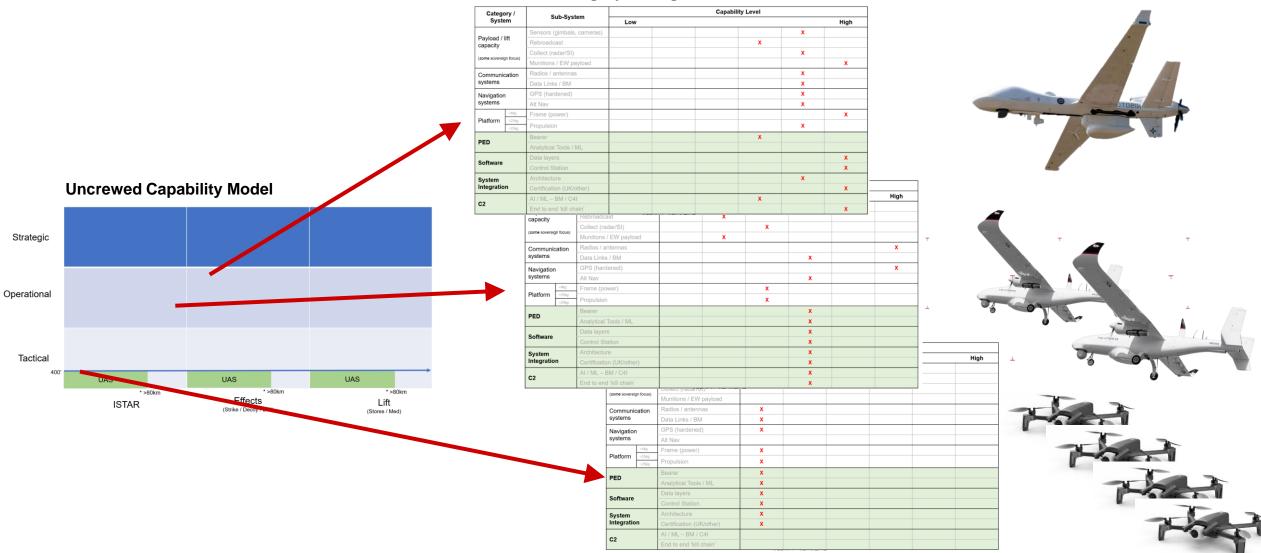
[Indicative] Uncrewed Category Management Framework



Capabilities / System		Sub-System	Capability Level					
			Low					High
Payload / lift capacity (<i>some</i> sovereign focus)		Sensors (gimbals, cameras)		Х			X	
		Rebroadcast						
		Collect (radar/SI)						X
		Munitions / EW payload						
Communication systems		Radios / antennas		Х			X	
		Data Links / BM		Х				
Navigation systems		GPS (hardened)	X		X			
		Alt Nav / Rad Altimeters		Х				
Platform	<4kg	Frame (power)		Х			X	
	<25kg	Propulsion		Х		X		
PED / Digital Backbone		Bearer / data ownership					X	
		Analytical Tools / ML			X			X
Software		Data layers / control software						
		Control Station					X	
System Integration		Architecture			X		x	
		Certification (UK/other)	X		X	X		
C2		AI / ML – BM / C4I					X	
		End to end 'kill chain'					X	

Uncrewed Capability to Category - End to End



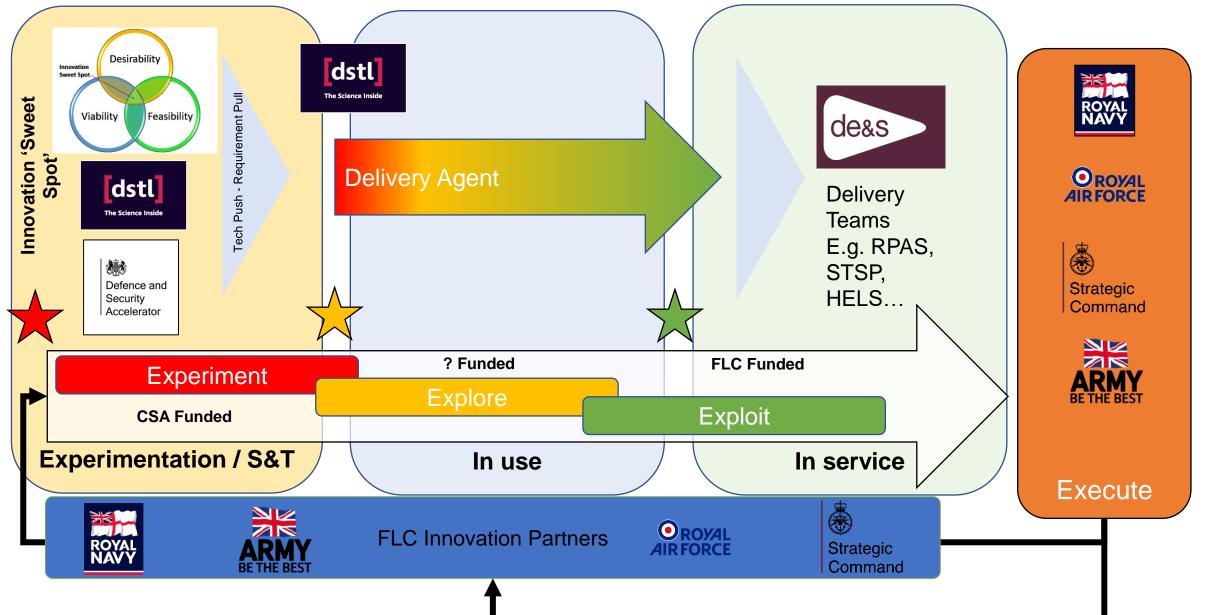


Uncrewed Category Management Framework

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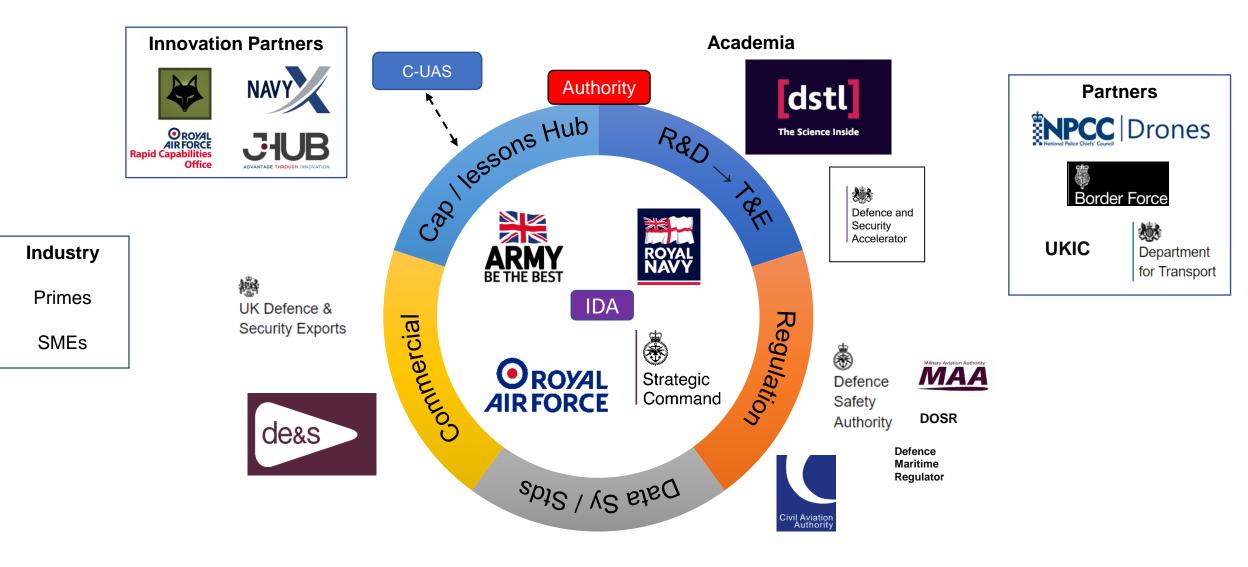


4 Box Innovation Model (Experiment – Explore – Exploit – Execute (exhaust))



Defence Uncrewed Strategy - Cohering Ecosystem





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System of Systems are emerging: HMT and MDIS Programmes are enabling and exploring

FUTURE CAPABILITY GROUP

EXPERIMENT • EXPLORE • EXPLOIT

Defence Uncrewed Strategy



