



**L3HARRIS**

FAST. FORWARD.

## DELIVERING KEY MISSIONS WITH USVS

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**NON-EXPORT CONTROLLED**

THESE ITEM(S) / DATA HAVE BEEN REVIEWED  
IN ACCORDANCE WITH THE INTERNATIONAL  
TRAFFIC IN ARMS REGULATIONS (ITAR), 22  
CFR PART 120.11, AND THE EXPORT  
ADMINISTRATION REGULATIONS (EAR), 15  
CFR 734(3)(b)(3), AND MAY BE RELEASED  
WITHOUT EXPORT RESTRICTIONS.



**L3Harris' autonomous platforms perform the dull, dirty and dangerous missions  
so our people don't have to**

# Types of Autonomy



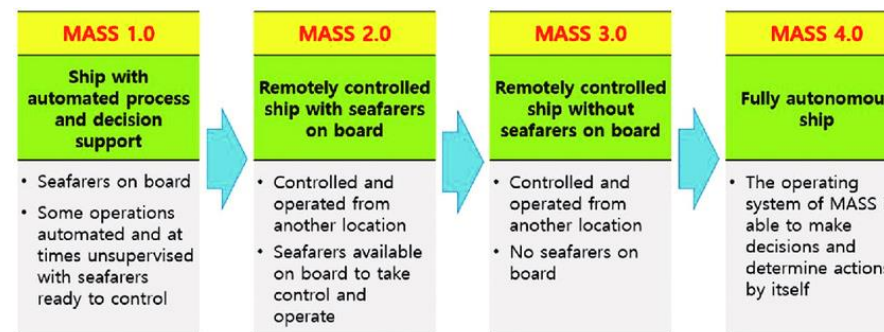
Multi-platform Autonomy

Mission Autonomy

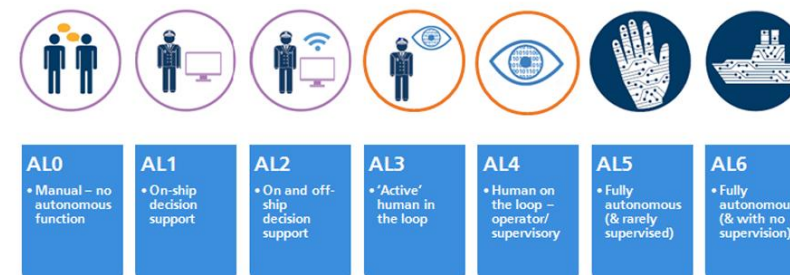
Platform  
Autonomy

Navigation  
Autonomy

Payload  
Autonomy



SHIP **AUTONOMY LEVELS** ARE CATEGORIZED ON A SCALE





# Types of Autonomy - Platform



Multi-platform Autonomy

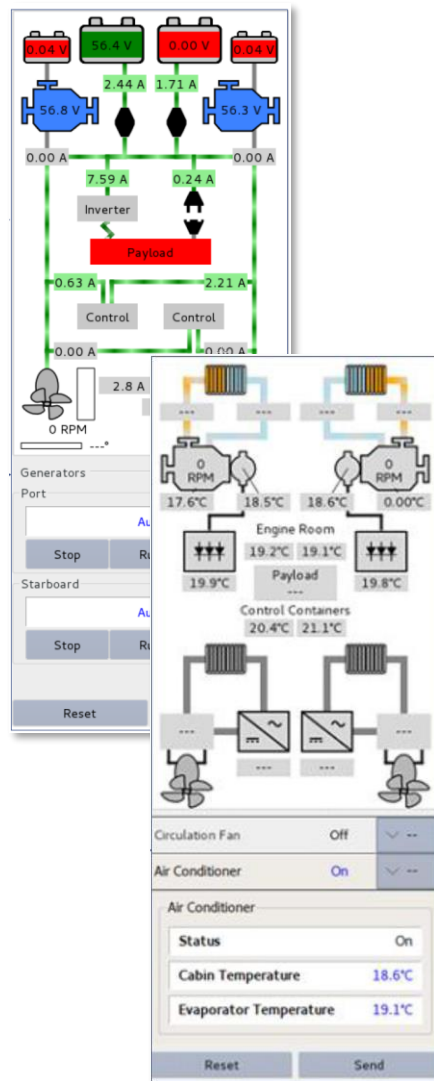
Mission Autonomy

Platform  
Autonomy

Navigation  
Autonomy

Payload  
Autonomy

*Manage your own systems*



# Types of Autonomy - Navigation



Multi-platform Autonomy

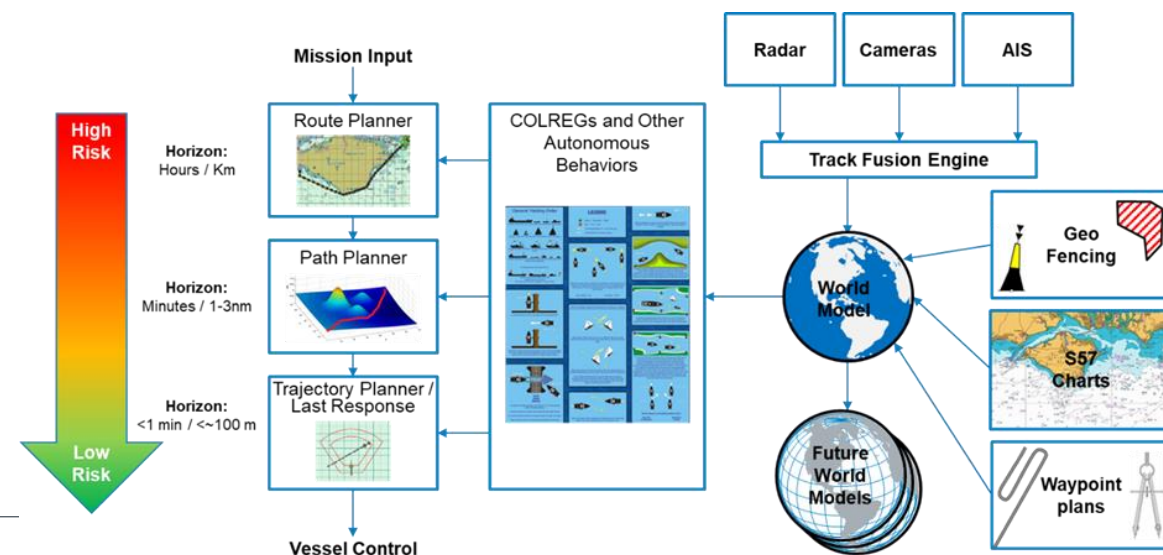
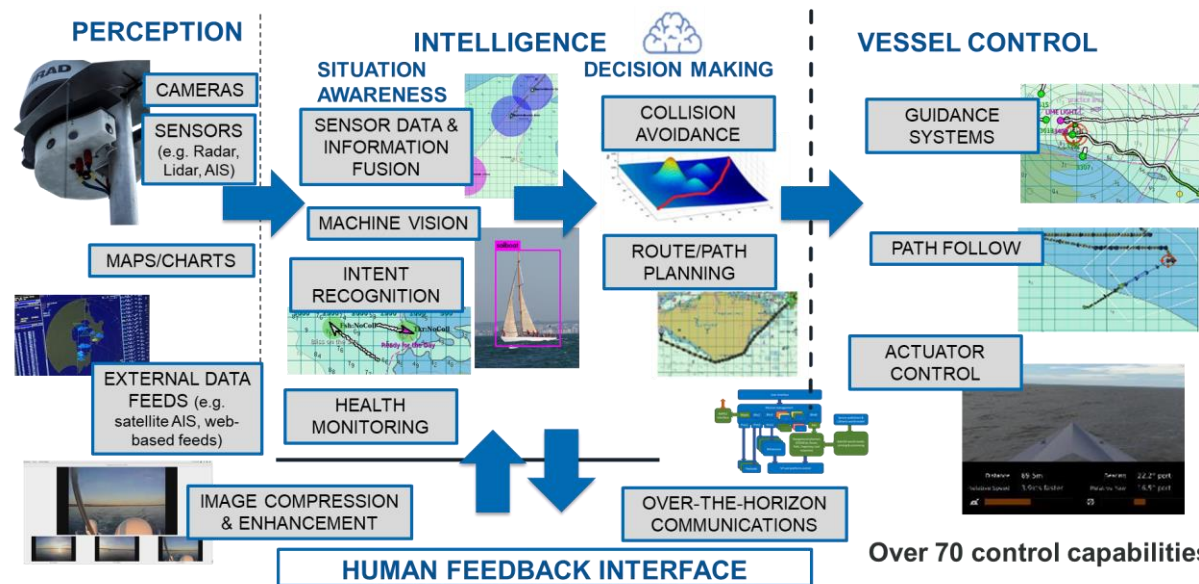
Mission Autonomy

Platform  
Autonomy

Navigation  
Autonomy

Payload  
Autonomy

*Move around safely*





# Types of Autonomy - Payload



Multi-platform Autonomy

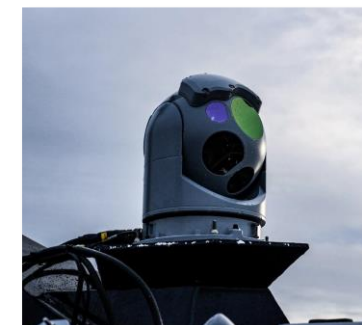
Mission Autonomy

Platform  
Autonomy

Navigation  
Autonomy

Payload  
Autonomy

*Do something useful*



# Types of Autonomy - Mission



Multi-platform Autonomy

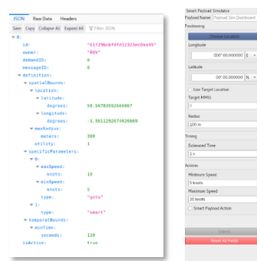
Mission Autonomy

Platform  
Autonomy

Navigation  
Autonomy

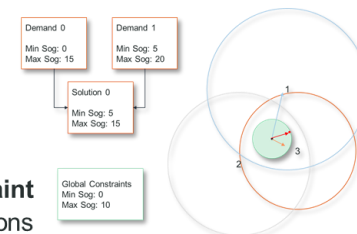
Payload  
Autonomy

*Understand your goals*



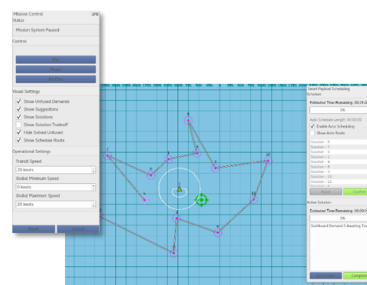
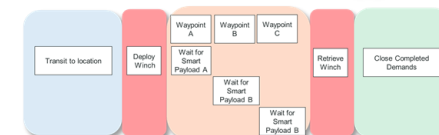
## 1. Tasks and priorities received

Send and receive data between mission system and payloads



## 2. Fusion – Spatial, Temporal & Constraint

Combine compatible demands into solutions

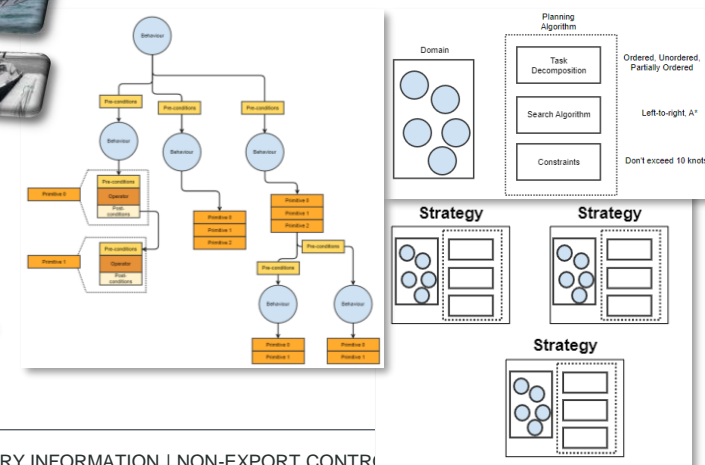
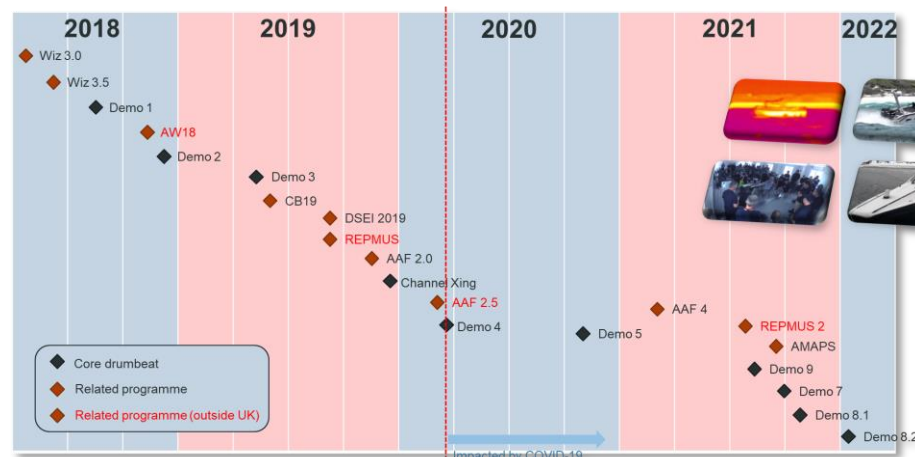
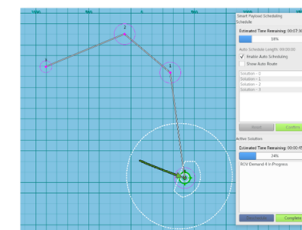


## 3. Scheduling

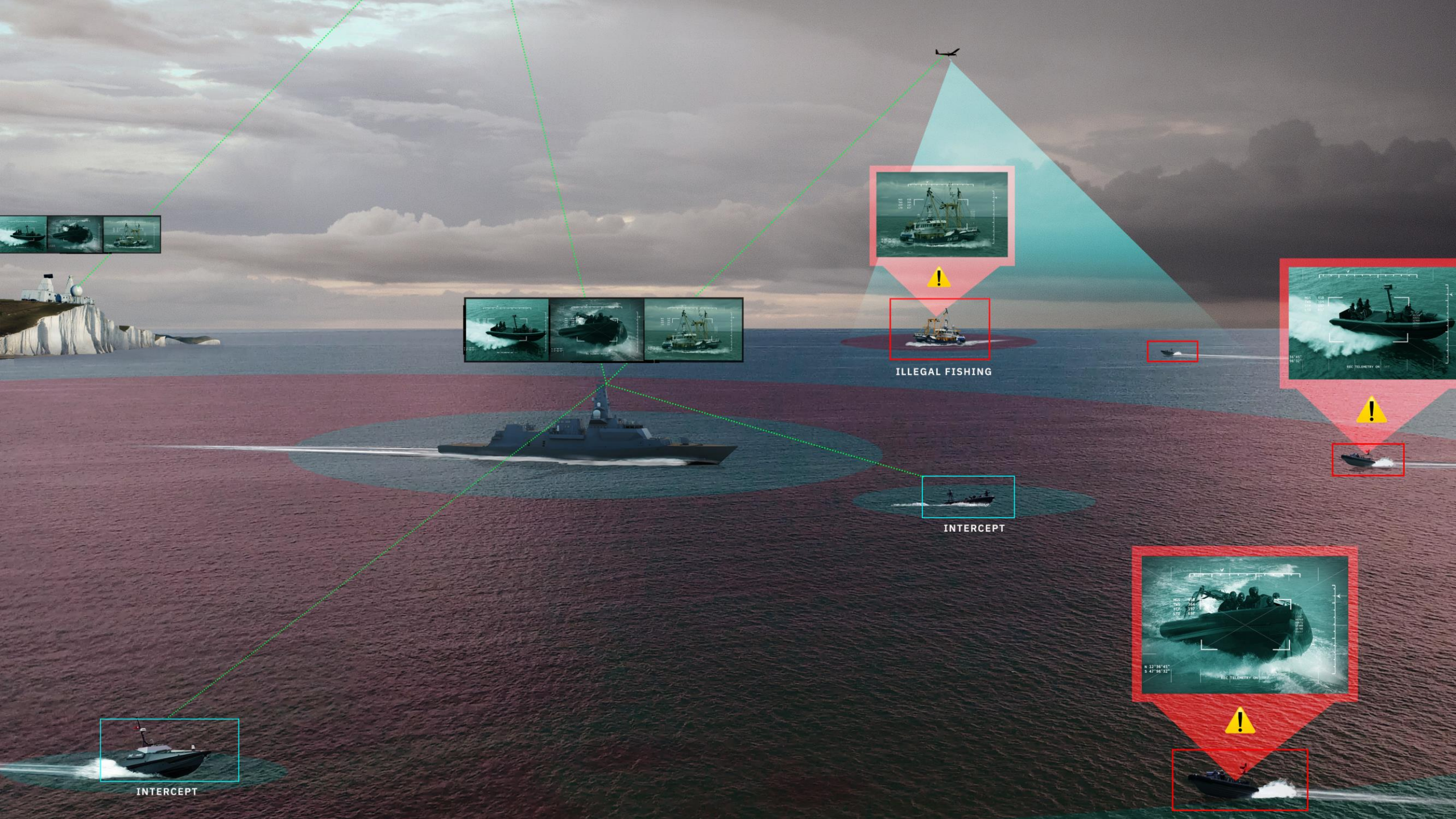
Put solutions into a schedule and optimize the ordering

## 4. Execution & Progress Monitoring

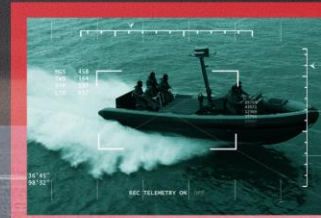
Smart payloads update status & estimate remaining tasks







ILLEGAL FISHING

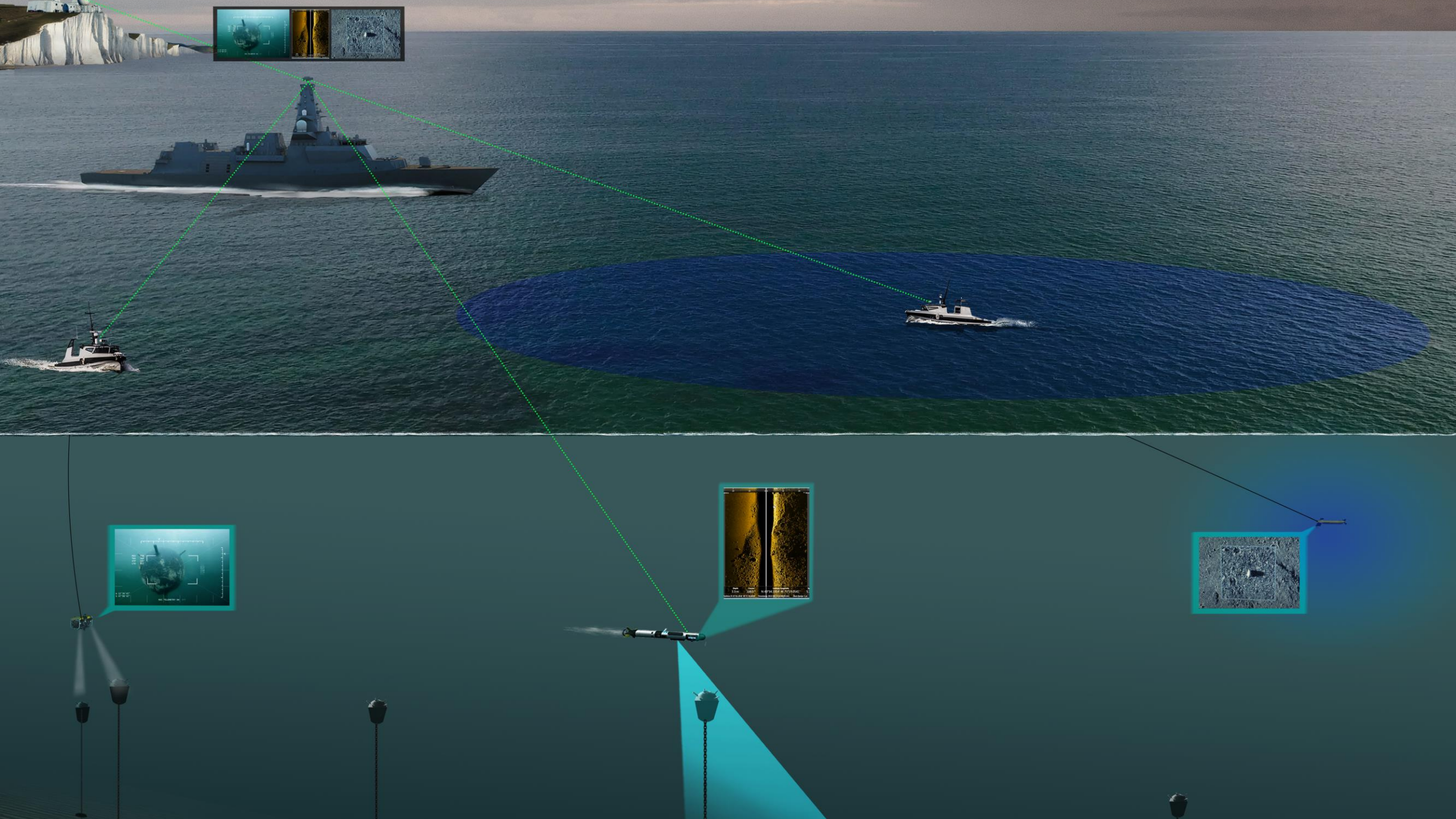


INTERCEPT



INTERCEPT



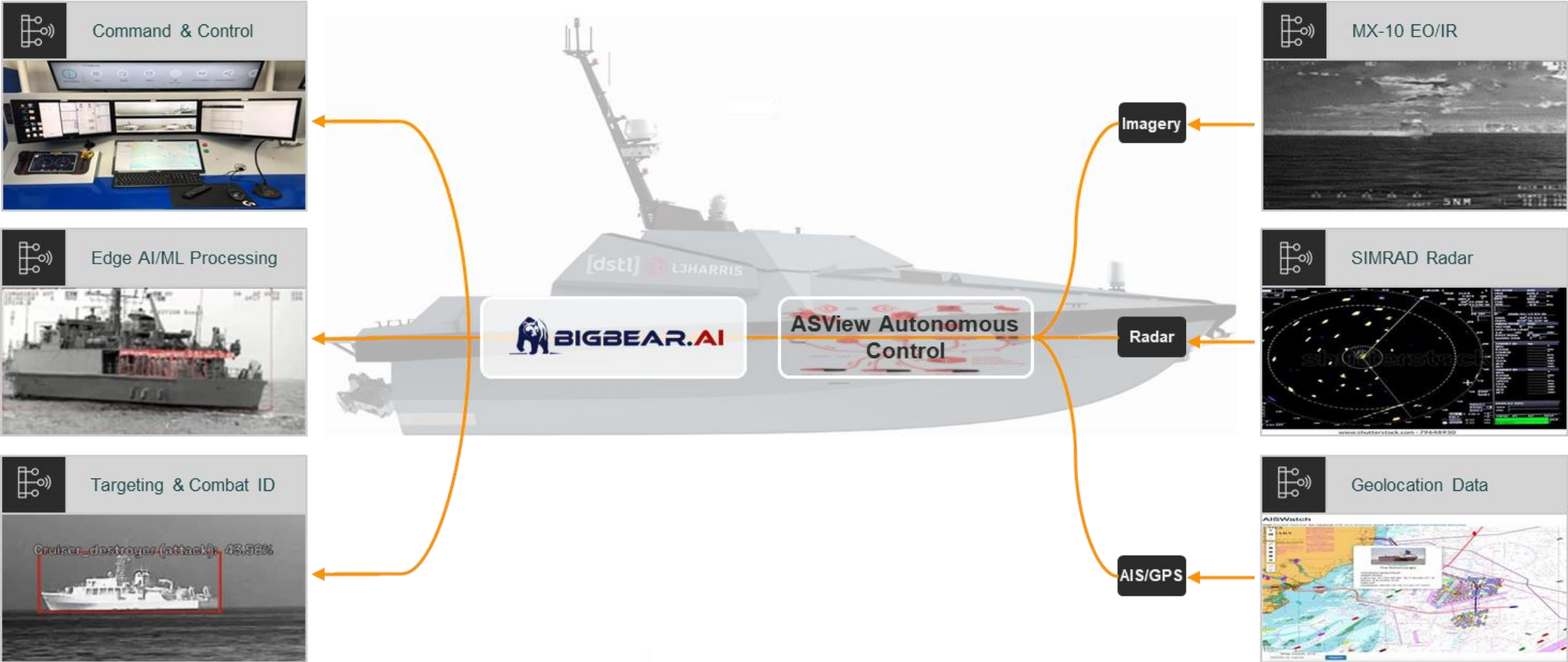








# L3Harris & BigBear.ai: Autonomous Tactical Edge Targeting Solution



# Handover – Multi-user & multi-platform



Fleet Commander

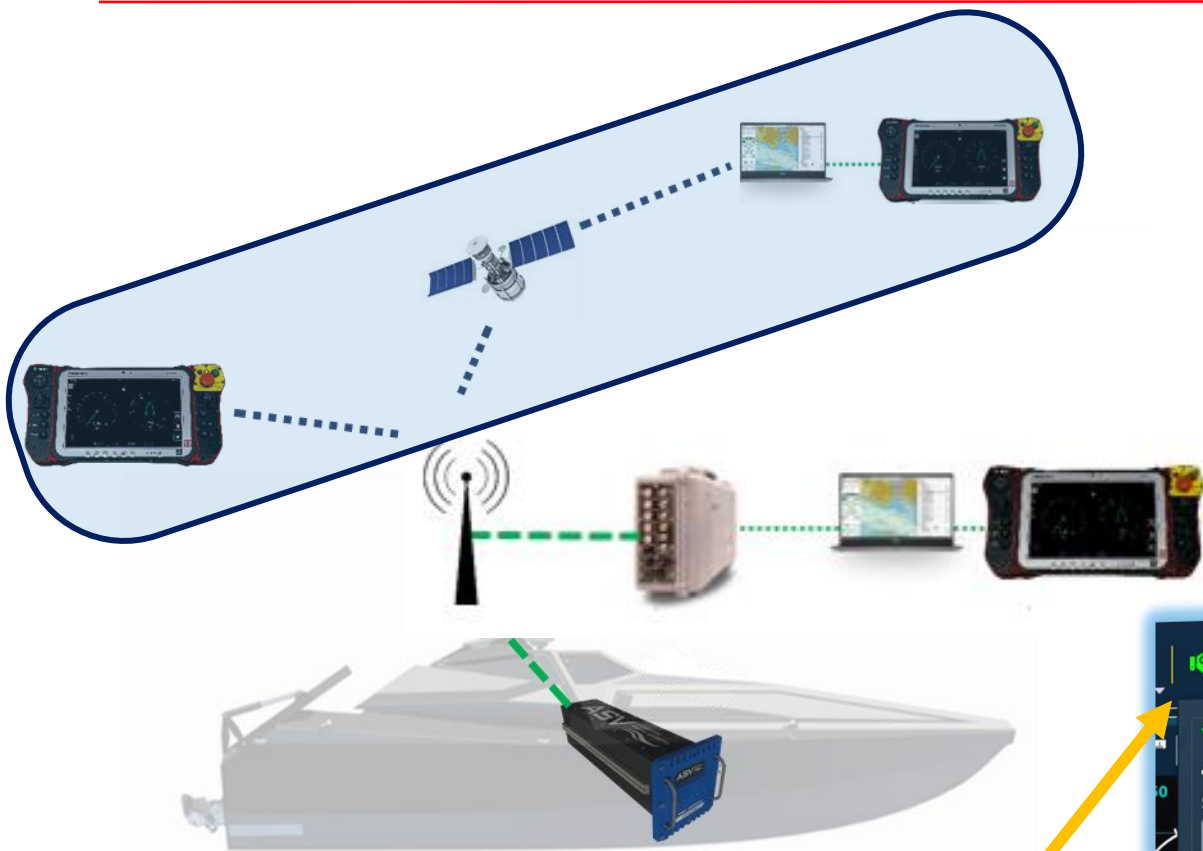


Captain





# Handover



Handover icon & multiple workflow options

Username	Status	Location
Josef Abbasikadijani (you)	In control	82 Thyme Avenue
Ben Allen	Not ready	PLACEHOLDER
Joel Bamigboye	Lost connection	PLACEHOLDER

Workflow windows shown:

- You are the OOW:** Silva Robe is requesting OOW. Buttons: Accept, Reject, Steal OOW, Request OOW.
- USV is not under control:** Silva Robe was the OOW but has lost connection. Buttons: Take over OOW, Steal OOW.
- USV is not under control:** Silva Robe was the OOW but has lost connection. Buttons: Take over OOW, Steal OOW.
- USV is not under control:** Silva Robe was the OOW but has lost connection. Buttons: Take over OOW, Steal OOW.

User lists & status displays

# Shadowfox

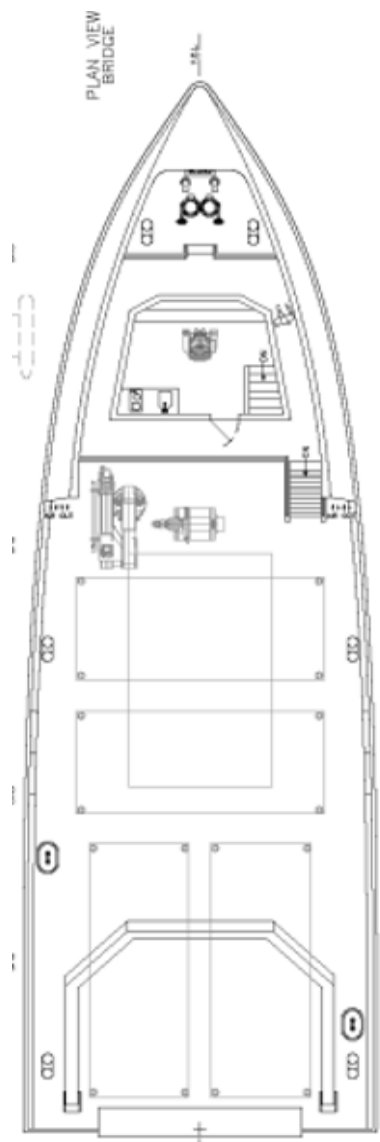


Length	12.65m
Beam	3.5m
Draught	0.75m
Height	6.1m
Weight	10 tonnes
Propulsion	2x Hamilton Jet HJ292
	2x Cummings 550hp inboard engines
Speed	Up to 45 knots
Operational range	450Nm
Payload power	Forward – 5 kW for 230V AC
Control System	ASView
Comms Links	Primary: SATCOM / IP radio Secondary: Wi-Fi, 4G LTE













**Autonomy is ready to protect our people by performing the dull, dirty and dangerous**