



**MQ-9B STOL**



Enabling Information Dominance

# Combined Naval Event

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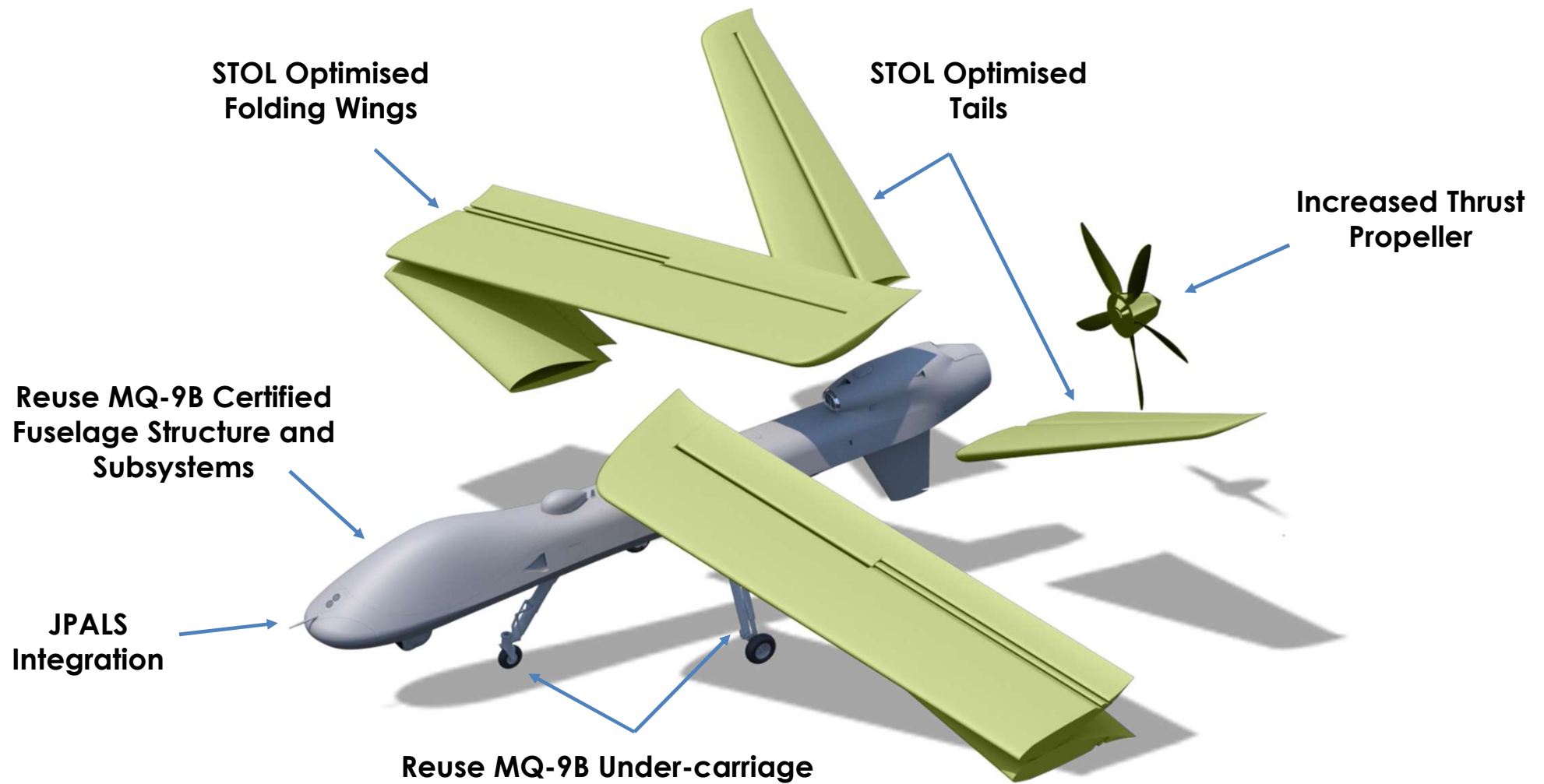


# Protector



- **Designed and certified to operate in all classes of airspace**
- **Controlled over satellite with endurance of 40 hours**
- **First RAF Protector in UK: first flight at Waddington on 17<sup>th</sup> November 2023**

# Short Take-Off & Landing (STOL) Kit



## VIDEO: Mojave on Prince of Wales, November 2023

[https://www.youtube.com/watch?v=LVR\\_EioIM8c](https://www.youtube.com/watch?v=LVR_EioIM8c)

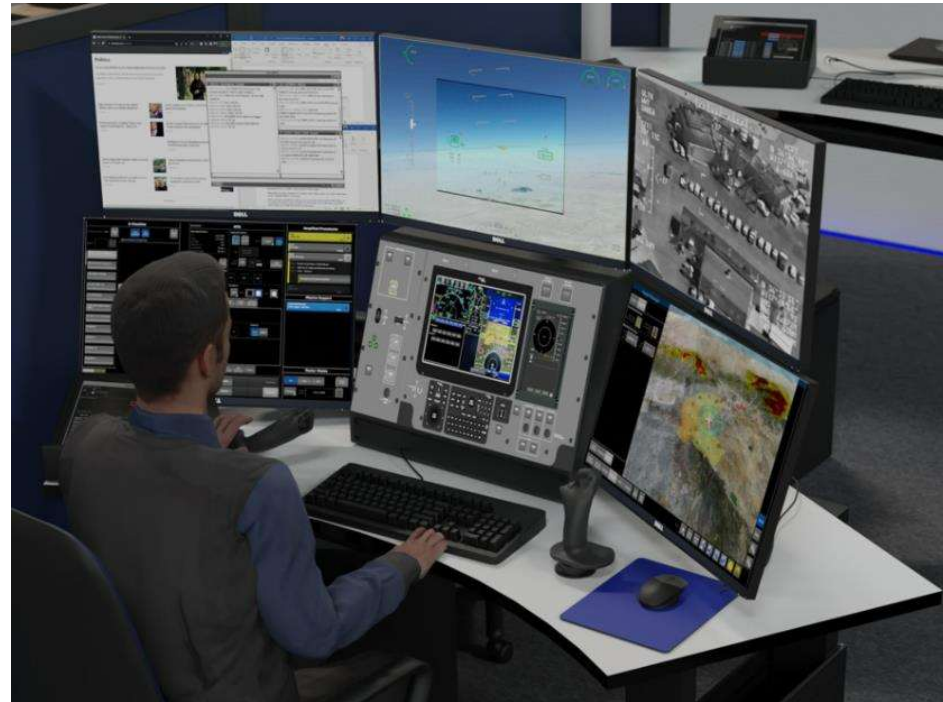


# STOL Design



- **Wingspan**
  - Maximise within Carrier deck foul limits
- **Wing Hinge Point**
  - No internal fuel in outer wing section
  - Minimise footprint in hangar
  - Hangar ceiling limits

# Control System + Data Links



## Data Links

- Electro-Magnetic Spectrum
- Real estate for antennas
- Satellite versus Line-of-Sight
- Data to right place at right time

### Portable Pre/Post-Flight Equipment

### Desktop Control Station

Maintenance

Startup  
Shutdown

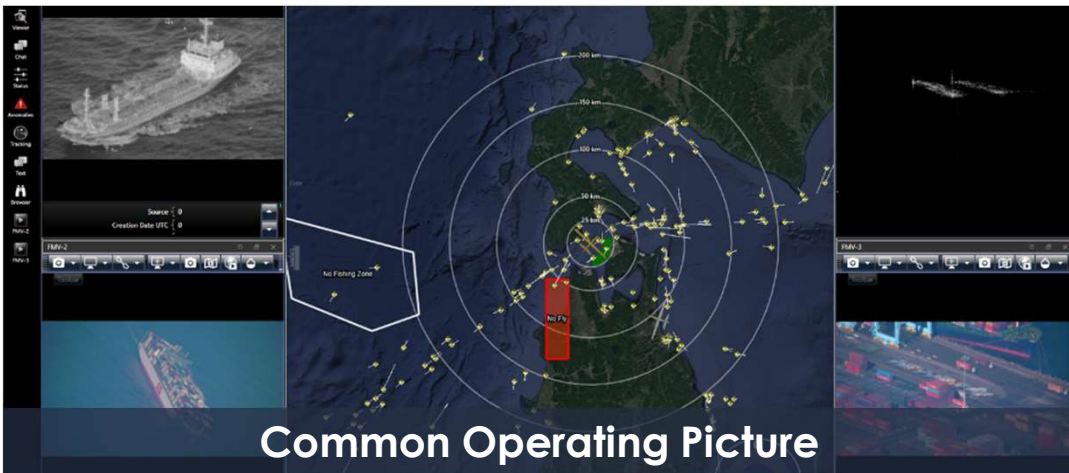
Taxi

Automatic  
Take-off and  
Landing

Flyout

Mission  
Execution

# Mission Examples



# VIDEO: Sonobuoy Dispensing

<https://www.youtube.com/watch?v=UoFXQeiARBo>



# Summary

- 1. Sea Protector - a STOL kit for MQ-9B/Protector**
- 2. Brings MQ-9B's extensive multi-role mission sets to Carrier operations**
- 3. Organic AEW is a perfect mission to exploit long endurance**

Questions?

