



MARINE CORPS SYSTEMS COMMAND

Gregg Skinner

Navy & Marine Corps Small Tactical UAS

2 May 2024



SMALL TACTICAL UAS PLANS, PLATFORMS & REQUIREMENTS

2023-207 Distribution Statement A – "Approved for public release; distribution is unlimited"

PWA-263

Navy and
Marine



THE VISION FOR SMALL UAS

Pursuing innovative ways to expedite new capability to the Warfighter



Digital Interoperability integrating air/land/sea joint capabilities
Advanced sensing
Open Architecture



Simple operations (click and forget)
Common Control
Automated mission and flight operations
Matching capability to mission requirements



Limited support equipment/footprint
Easily deploy and reposition
Plug and play ship integration



Allow operations from any air-capable ship
Semi-autonomous launch and recovery operations
Manned/Unmanned Teaming

Key Acquisition Attributes:

- Leverage state of the market
- User assessment/ experimentation in parallel with a tailored acquisition path
- Rapid prototyping/ integration and fielding
- Focus on enabling capabilities



PMA-263 CAPABILITIES PORTFOLIO



Family of Small UAS

- Short Range Tactical (SRT)
- Medium Range Tactical (MRT)
- Long Range Tactical (LRT)
- Provide Reconnaissance, Surveillance, and Target Acquisition (RSTA) capabilities
- Training and Logistics Support Activities



Intelligence Surveillance and Reconnaissance (ISR) Services

- Ship- and land-based Navy, Marine Corps, Joint Urgent Operational Needs, and fleet services based-requirements
- Emerging Marine Corps Expeditionary Tactical UAS effort



Unmanned logistics

- Small and Medium Marine Corps tactical resupply efforts
- Emerging Navy (Blue Water) maritime cargo capability

Capabilities Development: *Enhanced ISR, Signals Intelligence/Electronic Warfare*



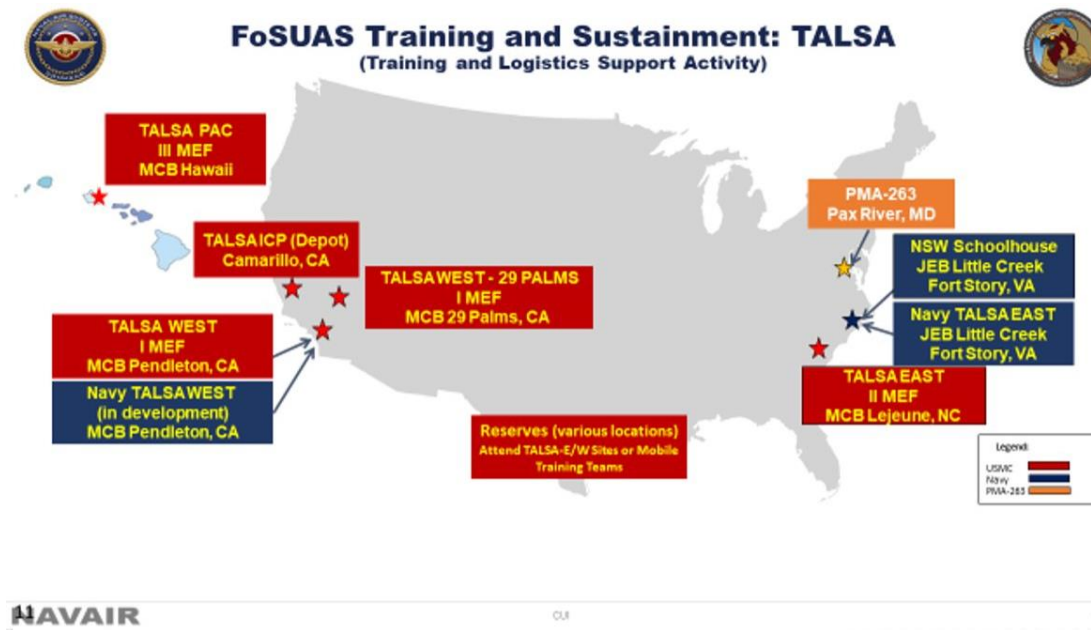
FAMILY OF SMALL UAS

Marine Corps

- Battalion & below
- United States Marine Forces Special Operations Command (MARSOC)

Navy

- Navy Special Warfare
- Naval Expeditionary Combat Command



Black Hornet 3



Puma RQ-20B



SkyDio



SkyRaider



Stalker VXE30



ISR SERVICES

2005

2012

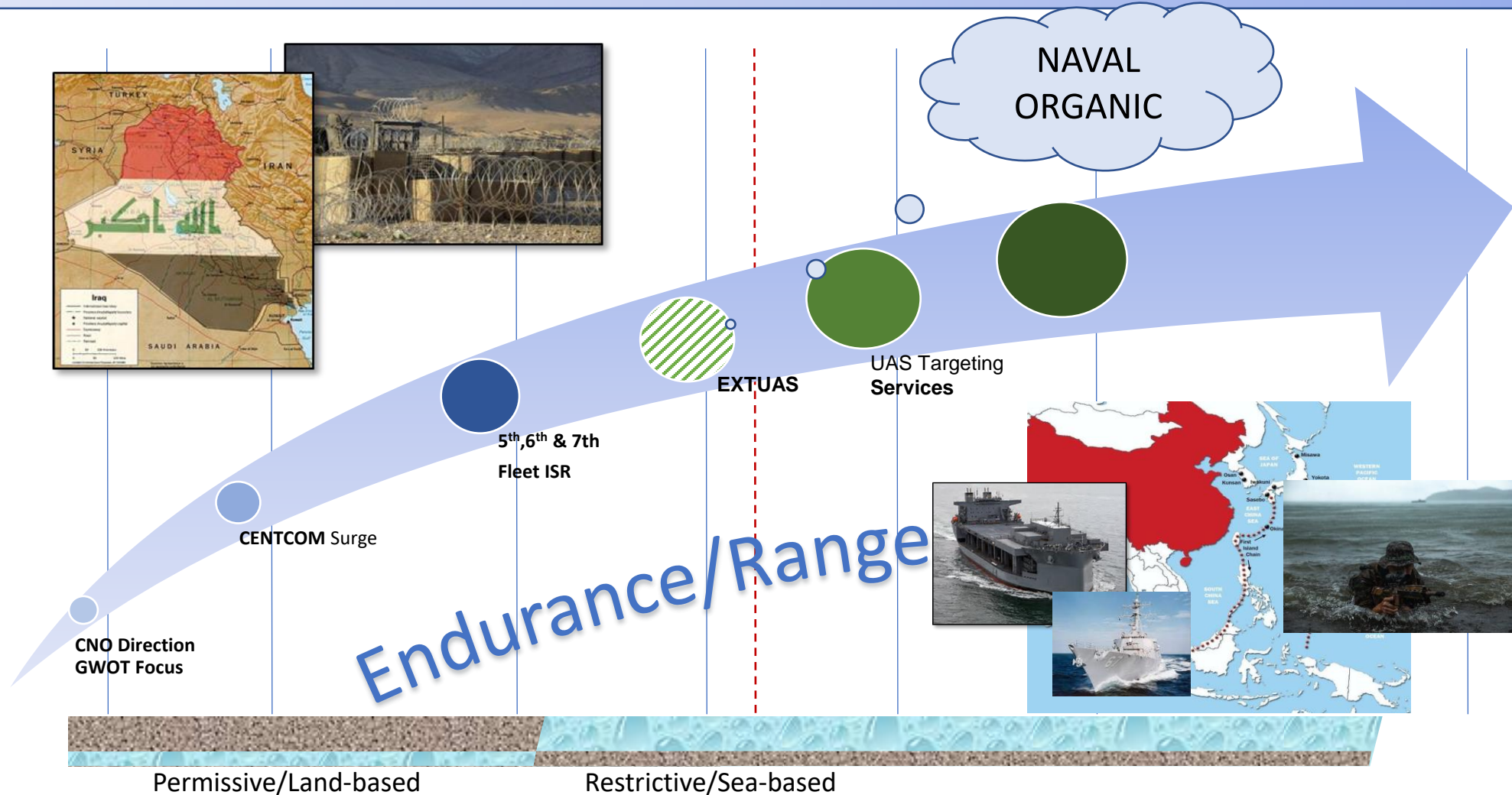
2021

2024

2025

2028

2030





UNMANNED LOGISTICS

Small Unmanned Logistics System-Air (ULS-A)

Maximum capability up to 120 lbs/12 kilometers

- Initial Operational Capability Oct 2023
- Currently participating in fleet exercises

Medium ULS-A

Objective up to 600 lbs/100 nautical miles (nm)

- Awarded OTAs to Kaman Aerospace and Leidos for rapid prototyping
- Field User Capability Assessment late 2024





EXPERIMENTATION

Maritime ISR-Targeting

- Successful demonstration conducted July 2022
- Insitu and L3 Harris showcased multiple technologies
- Working with the Navy for a path forward on future field user capability assessment



Bluewater UAS

Objective up to 50 lbs/250 nm

- Completed ANTEX 22 experimentation
- Exercise Fleet Battle Problem 23-1
- Additional exercise in Fall 2023
- Area for additional industry opportunity





INDUSTRY MOMENTUM



- Increased range and endurance
 - Propulsion and communications/spectrum agile



- Alternate fuel sources

- Autonomy

- Shipboard and mission operations
- Sense and Avoid

- Advanced Sensing

- Size Weight and Power
- Improve AI

- Operations in contested environments (Global Positioning System)



EQUIPPING OUR



MARINES