
PORTFOLIO
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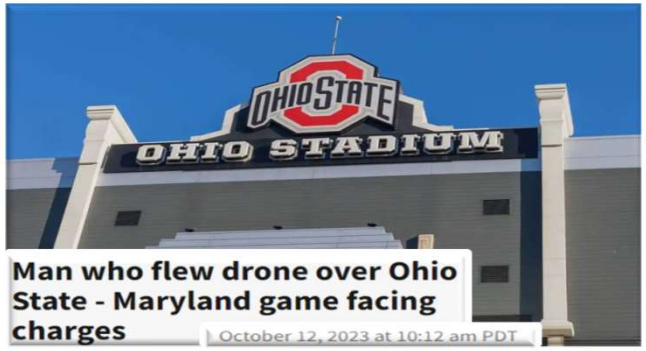
PORTFOLIO ACQUISITION EXECUTIVE MARINE CORPS
EQUIPPING OUR WARFIGHTERS
Program Manager
Ground Based
Air Defense
Colonel Andrew J. Konicki
Program Manager

THE THREAT IS NOW…INDISCRIMINATE, HIGHLY PROLIFIC!

BBC

Combat drones: We are in a new era of warfare - here's why

4 February 2022



Man who flew drone over Ohio State - Maryland game facing charges

October 12, 2023 at 10:12 am PDT

Houthi Lethal Underwater Drones Adds New Threat to Red Sea

FEBRUARY 19, 2024 12:15 PM

USNI News

Drone Swarms Pose New Threat to US Bases, Official Says

May 8, 2024

AIR & SPACE FORCES MAGAZINE

Yemen's Houthi rebels use missiles, drones to attack 2 more ships in Red Sea

Houthis have targeted more than 70 ships, sinking 2 of them and killing 4 since November

Associated Press

Published July 16, 2024 8:48am EDT

Ukraine's Operation Spider's Web Shows Future of Drone Warfare

June 3, 2025

COUNCIL on FOREIGN RELATIONS

Israeli Commandos Attacked Iranian Air Defenses With Drones From Inside The Country: Report

JUN 13, 2025 6:27 AM EDT

Mysterious Drones Swarmed Langley AFB For Weeks

The unidentified drones were such an issue that assets were called in from around the government, including a NASA WB-57 high-altitude jet.

PM GBAD – USMC CENTER OF EXCELLENCE FOR COUNTER AIR CAPABILITIES

Future Weapons Systems (FWS)

Marine Air Defense Integrated System (MADIS)

- ACAT II, AAO: 131
- MDA: PEO LS

Light-MADIS (L-MADIS)

- JUONs: 12 Fielded
- PoR: ACAT IV(T), AAO: 21
- MDM: PM GBAD

Fixed Site

Installation-Counter small Unmanned Aircraft Systems (I-CsUAS) Urgent Statement of Need (USON)

- Five USON sites in operation, sixth site on-line 2QFY25

I-CsUAS Program of Record (PoR) System

- ACAT III, AAO: 34 Sites
- MDA: PM GBAD

Ground-Based Operational Surveillance System (G-BOSS)

- Sustainment
- Shelter: 4 | Heavy: 4 | Medium: 25 | Light: 29

Urgent Need Capabilities

Home Alone

- Urgent Capability Acquisition

Dismounted CsUAS

- Emerging USON

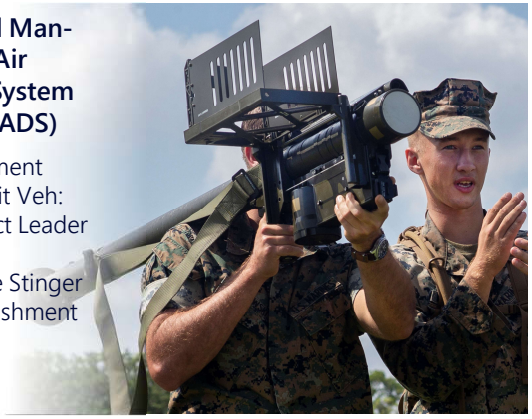
MRIC & A-MANPADS

Medium Range Intercept Capability (MRIC)

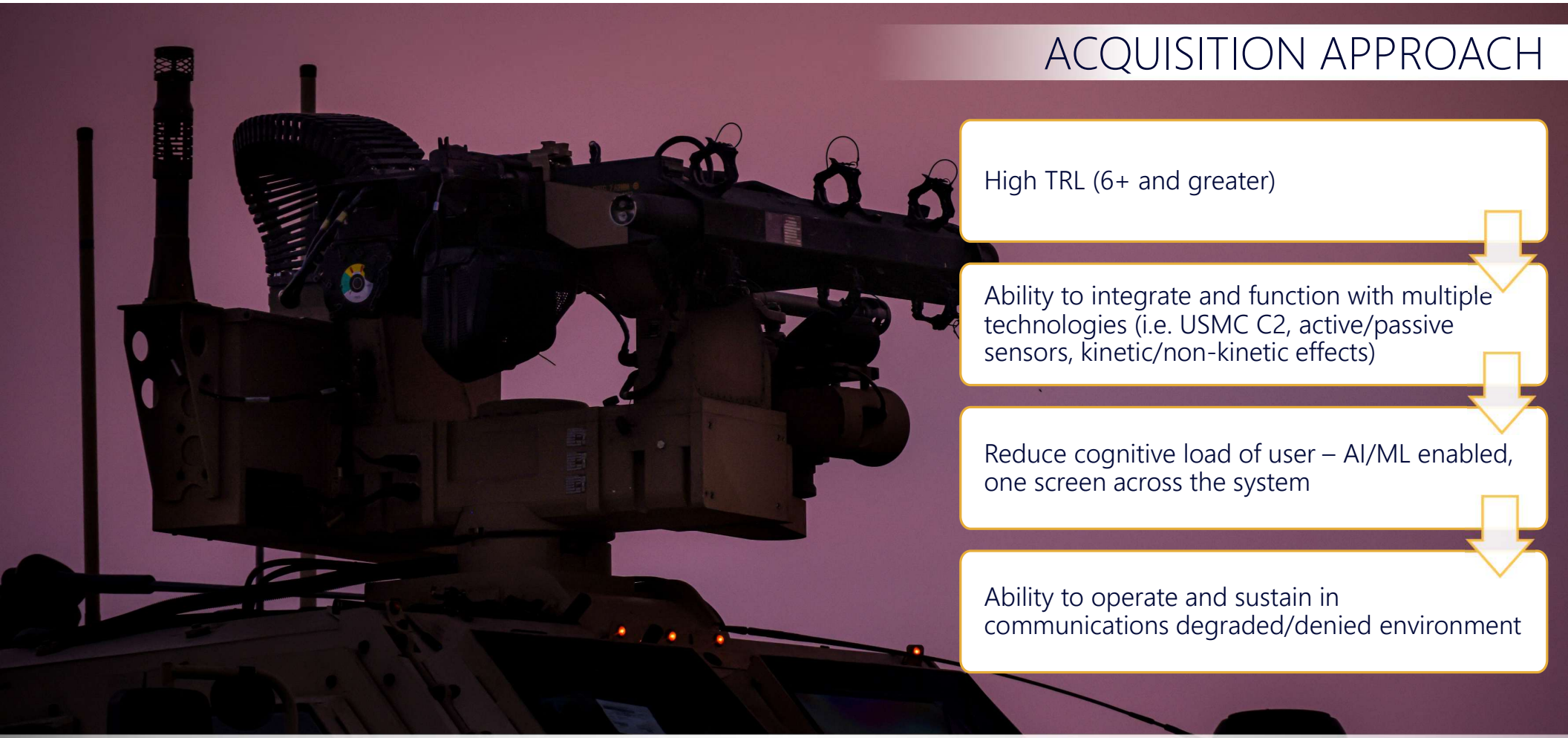
- Middle Tier of Acquisition (MTA)
- AAO: 48 Launchers
- MDA: PEO LS

Advanced Man-Portable Air Defense System (A-MANPADS)

- Sustainment
- Fire Unit Veh: 143/Sect Leader Veh: 13
- Ukraine Stinger Replenishment effort



ACQUISITION APPROACH



- High TRL (6+ and greater)
- Ability to integrate and function with multiple technologies (i.e. USMC C2, active/passive sensors, kinetic/non-kinetic effects)
- Reduce cognitive load of user – AI/ML enabled, one screen across the system
- Ability to operate and sustain in communications degraded/denied environment

Fielding everything across the portfolio –
continual improvements and evolution of capabilities.

GBAD – FUTURE TECHNOLOGY NEEDS

BLUF: Today's increasingly congested and contested airspace requires the acceleration of AI/ML tools to support C2/BM and new technology to optimize detection, identification and defeat of UAS, RW and FW platforms.

Significant gaps include:

- Battle management/C2 at the micro-level/edge
- Inclusion of GCE networks and organic CUAS capabilities into traditional ACE-centric layered air defense & networks
- Inability to integrate and incorporate a growing number of DoW and industry C2/BM interfaces
- Utilization of passive sensor contributions to joint data networks
- Effector and sensor integration into unmanned & autonomous systems
- Limited magazine depth, cost per shot, and contested logistics result in mismatched threat to kinetic effector ratio

Today's GBAD Marine must:

- Conduct localized C2/BM functions historically associated with higher echelons that have more resources
- ID friendly/enemy threats at a scale and pace required for high end warfare
- Understand and employ an increasing number of networks and link functions
- Employ multiple effectors - both kinetic and non-kinetic
- Employ and operate Radars

Acquisition Gaps:

1. **C2/BM:** SW that reduces operator workload and enhances SA in a crowded battle space
   - Automated Track Recognition (ATR), track/sensor fusion, EID, external data ISO threat classification
   - Technology enabling BLOS threat classification ISO maximum range engagements
   - Need to synch service level C2 (CAC2S, Lattice) with tactical C2 (MANGL, TAK)
2. **Networks & Interfaces:** Edge integration and synchronization with information from inter-Service, Inter-Agency, GCE and industry systems
3. **Sensors:** Passive sensors capable of contributing to joint data networks and providing situational awareness in EMI conditions
4. **Effectors:** Development of autonomous ground and airborne systems capable of employing effectors

BL: Not enough manpower and training resources to accomplish additive tasks – AI/ML tools necessary to perform functions effectively at capacity and scale

* MOSA still requires additional excessive time and money for integration. Sensors/effectors to join a network without years of testing and millions of dollars


QUESTIONS?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