



# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



## Campaigning with Partners for Integrated Deterrence

**LTC John M. (Tosh) Lancaster**, Program Manager  
**SOF Lethality**



# WEAPONS PORTFOLIO OVERVIEW

## (RIFLES, MACHINE GUNS, HANDGUNS)

		FY21	FY22	FY23	FY24	FY25
RIFLES	 <p><b>Mid-Range Gas Gun (MRGG)</b></p>	RFP	MUA IDIQ			
	 <p><b>Lightweight Medium MG (LMG-M)</b></p>			RFP MUA	IDIQ	

# AMMUNITION PORTFOLIO OVERVIEW

## (AIR DELIVERED, BULLET, DEMOLITION & SHOULDER LAUNCHED)

		FY21	FY22	FY23	FY24	FY25
<b>AMMUNITION</b>	<b>Small Caliber</b> Enhance capabilities in new caliber weapon systems			Terminal Effects		
				Alternate Case Materials		
	<b>Demolitions</b> Modernize capabilities, improve performance, minimize overpressure exposure			Remote Initiators		
				Improved Efficiency Charges		

# ENHANCED CLOSE QUARTERS SIGHT (E-CQS)

## E-CQS Concept:

- Direct View Optic with a digital overlay
- Projection items will be user configurable and capable of being entirely disabled.
- Smaller form factor desired.

## E-CQS Objectives:

- Provide operator with critical information in FOV when utilizing optic
- Increase operator situational awareness & enable heads-up operation by porting critical data from ATAK.



SU-231A (CQS): currently fielded for the E-CQS

# DAY-AND-NIGHT HUD (DANHUD)

## DANHUD Concept:

- Thin form-factor HUD that integrates with ATAK to allow the operator to visualize important data during both day (standalone) and nighttime (sitting behind eyepiece) operations.
- Compatible with currently fielded NVGs
- Able to be stowed entirely out of the view of the operator when not in use

## DANHUD Objectives:

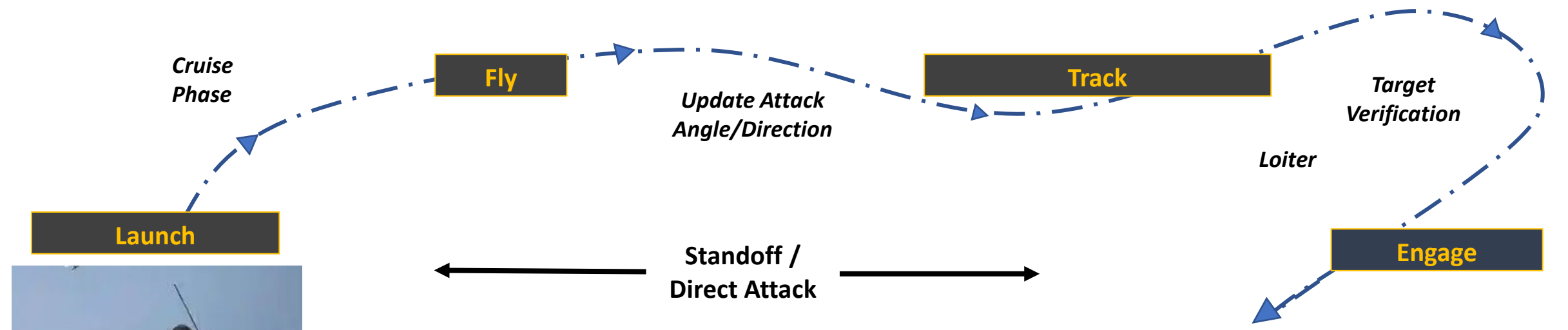
- Provide relevant information to operator in a non-distracting way (navigation, markers, geo-rectified points, etc)
- Reduce self illumination risk by reducing the need for the operator to open their EUD to view information
- Improved battery life

## Timeline:

- PM-SL has established a Collaborative Project Order (CPO) with SOFWERX to pursue HEO-related technologies and equipment
- Statement of work currently in DRAFT, will be released via the SOFWERX CPO once finalized

# GROUND ORGANIC PRECISION STRIKE SYSTEMS (GOPSS) CAPABILITY OVERVIEW

Provide organic capability at the unit level to strike static and mobile targets in a near-to-far range spectrum while minimizing collateral damage.



- System Characteristics:**
- LAUNCH (ex: Platform, Suitability, Integration, Signature Management, Common Controller)
  - FLY (ex: Loiter, Speed, Communication, Range, Denied Navigation Environment)
  - Track (ex: Mobile vs Fixed and Approach Angle)
  - Engage (ex: Waive off, Munition Recoverability, Collateral Damage, Final Flight Profile)



# GOPSS – WARHEAD IMPROVEMENT

## **Increase Lethality – Loiter Munition Warhead Improvement**

- **Improvement or replacement for the existing Multipurpose Warhead to increase lethality package in aerial loitering munitions.**
- **This would be of interest to any munition that currently employs the multiple purpose warheads, but desires a more effective fragmentation effects.**
- **Fragmentations will address personnel targets, light skin vehicles, and the ability to penetrate into a structure and detonate on the inside.**
- **Warhead must fit in the defined space, weight, and structure of the host Aerial Loitering Munition.**



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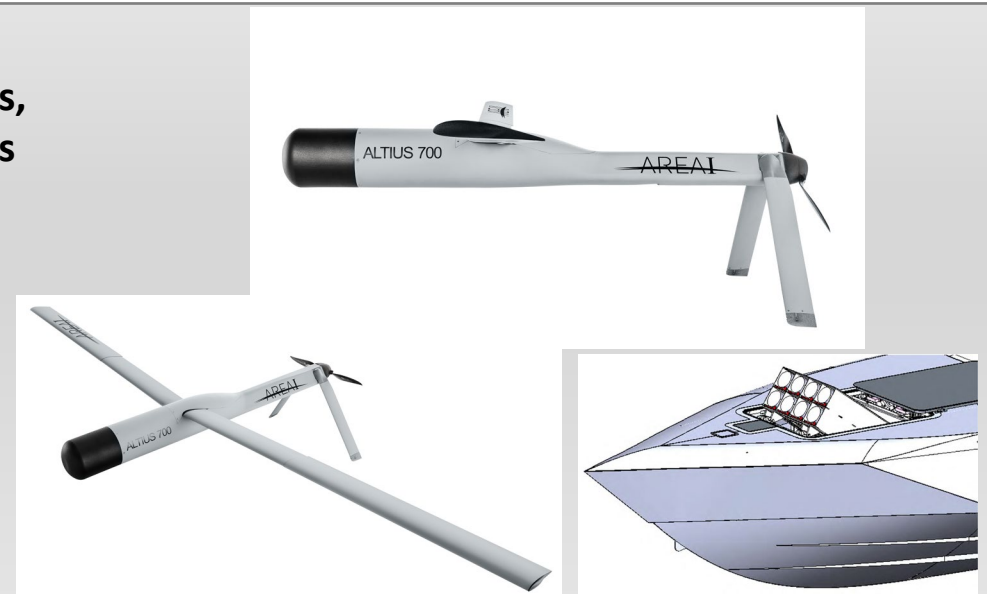
**CDR Kitchen Reed**, Program Manager  
**Maritime Special Programs**





# Maritime Precision Engagement-Munition (MPE-M)

- Pursuit of Standoff, Loitering, Man-in-the-loop Weapons system deployed on Combatant Craft and capable of targeting individuals, groups, vehicles and small oceangoing craft. The program consists of launcher systems and munitions.
- SOCOM-Validated CDD: March 2018
- MPE-M Program Future Efforts:
  - Alt-PNT
  - Autonomy: Reconnaissance, Surveillance, Target Acquisition
  - C2 options: Open architecture, ML-enabled software solutions for multi-domain C2 in Alt-PNT environments



## ACQUISITION STRATEGY

- Middle Tier Acquisition (MTA)
- Combination of Government labs and Industry
- Evolving airframe continuously enhanced:  
Block 1 (FY20-32), 2 (FY24-36), 3 (FY33-50)

## PERIOD OF PERFORMANCE

- FY21 with 5 Option years
- IOC tied to PEO-M MPE-Integration PoR
  - CCM Craft Modification Schedule

## MILESTONES

- Continual assessment of design safety / suitability
- Candidate munition(s) availability for testing
- Block I IOC: FY24, Block I FOC: FY25

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF),  
(813) 826-1269, eSOF@socom.mil

## FUNDING

- RDT&E      FY21 through FY26
- PROC        FY22 through FY26
- O&M        FY22 through FY26

## CURRENT CONTRACT/OEM

- NSWC Crane – DTIC
  - Current Prime: ALION Sciences
  - Current Sub: AREA-I



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## Questions

