



# EXPANDING THE COMPETITIVE SPACE

SPECIAL OPERATIONS FORCES VIRTUAL INDUSTRY CONFERENCE

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Mr. Geoff Downer, SES, Program Executive Office  
**ROTARY WING**



# Schedule of Virtual Presentations

**Wed**  
**13 May 2020**  
**1415-1515**

**PEO RW**  
**Strategic Overview**

**Thu and Fri**  
**14MAY20 1000-1600**  
**15MAY20 0800-1200**

**PEO One-on-One Sessions**  
**15 Minute Increments**

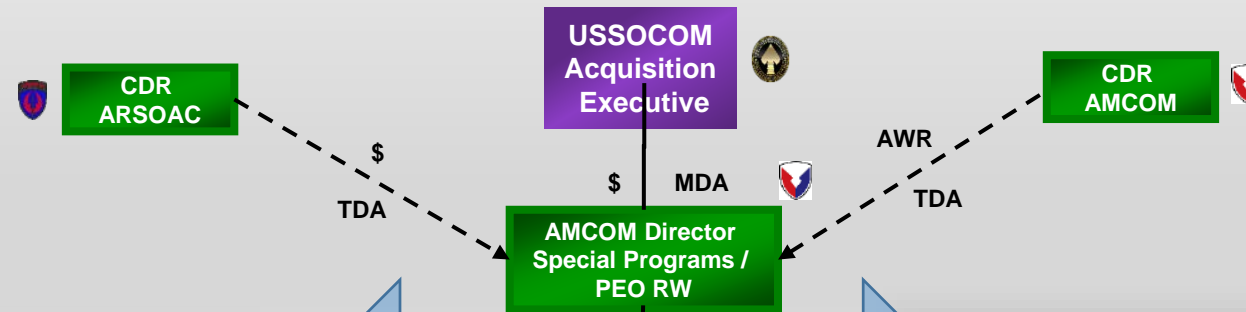
# COVID 19

- Thank You for your steadfast progress despite COVID-19 obstacles & constraints

## **What has changed:**

- Continuous assessment of the helicopter industrial base and their supply lines
- We have reached out to the prime vendors and SOFSA; they remain open and production continues
- Stimulus package approved with funding supporting the Defense Industrial Base

# PEO Rotary Wing Acquisition Chain of Command

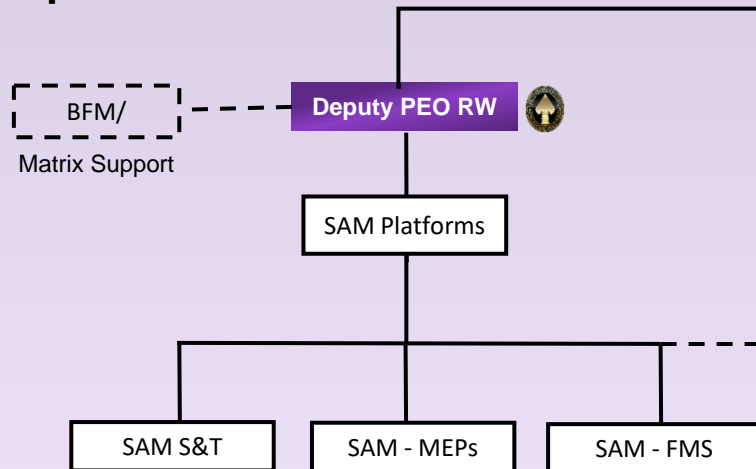


PEO-RW is entry point for Congressional, OSD, & Socom HQ RFIs. Entry point for new technology briefs and S&T funding.

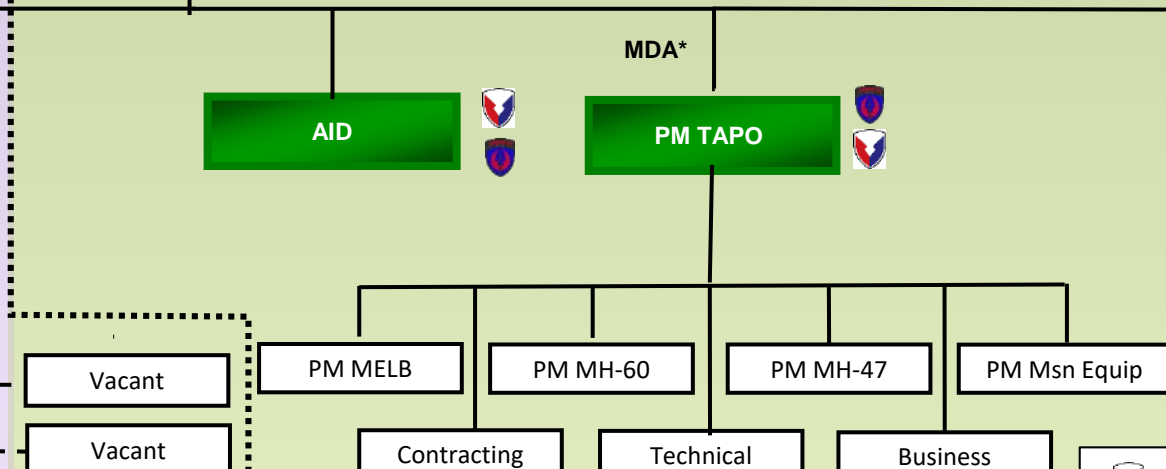
Synergies gained by having dual PEO/Execution responsibilities

PM TAPO/PM SBUD performs day to day execution of SOF RW programs and funding.

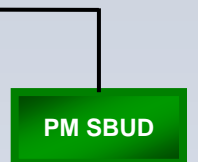
## Tampa



## Ft Eustis



## Orlando



- AMCOM Personnel
- USASOAC Personnel
- USSOCOM Personnel

PEO-RW is responsible for providing rapid and focused acquisition, research and development, and life-cycle logistics support to the operators of the US Army Special Operations Aviation Command and the 160th Special Operations Aviation Regiment, which provides SOF rotary-wing capability to the joint force.

# Army Special Operations Aviation Acquisition Team

## Relationship Enables.

- Customer Focus
- Access to Operation Expertise
- Proximity to User
- Access for Decisions
- Continual Team Syncs
- Real Time Trades
- Government Integration
- Responsiveness


  
Systems Integration  
Management Office (SIMO)  
(User Rep / Requirements)  
FT Campbell, KY



US Army Special Operations  
Aviation Command  
(Capability Sponsor)  
FT Bragg, NC

  
TAPO  
(Materiel Developer)  
FT Eustis, VA



  
US Army  
Aviation & Missile Command (AMCOM),  
Director, Special Programs  
(Aviation) /  
(Milestone Decision Authority)  
FT Eustis, VA

PEO Rotary Wing

Daily / Continual coordination with dedicated user representative (SIMO), Component Resource Sponsor (ARSOAC), and Title 10 Headquarters (PEO-RW & PEO-FW @ USSOCOM)



# Program Executive Office Rotary Wing (RW)

## MOBILITY



A/MH-6 Light Attack/Assault



MH-60 Medium Attack/Assault



MH-47 Heavy Assault

Airframe Recapitalization

## MISSION EQUIPMENT



Active Aircraft Survivability Equipment



Passive Aircraft Survivability Equipment



Avionics



Sensors

Common Hardware and Software

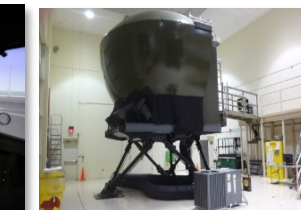
## TRAINING SYSTEMS



A/MH-6M (Little Bird) CMS



MH-47G CMS



MH-60M CMS



Mission Rehearsal Exercise Training System (MRETS)



Stimulated vs Simulated

## S&T



Combined Efforts  
with FVL CFT



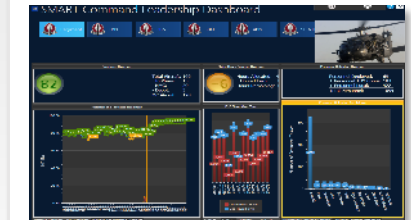
FARA



FLRAA



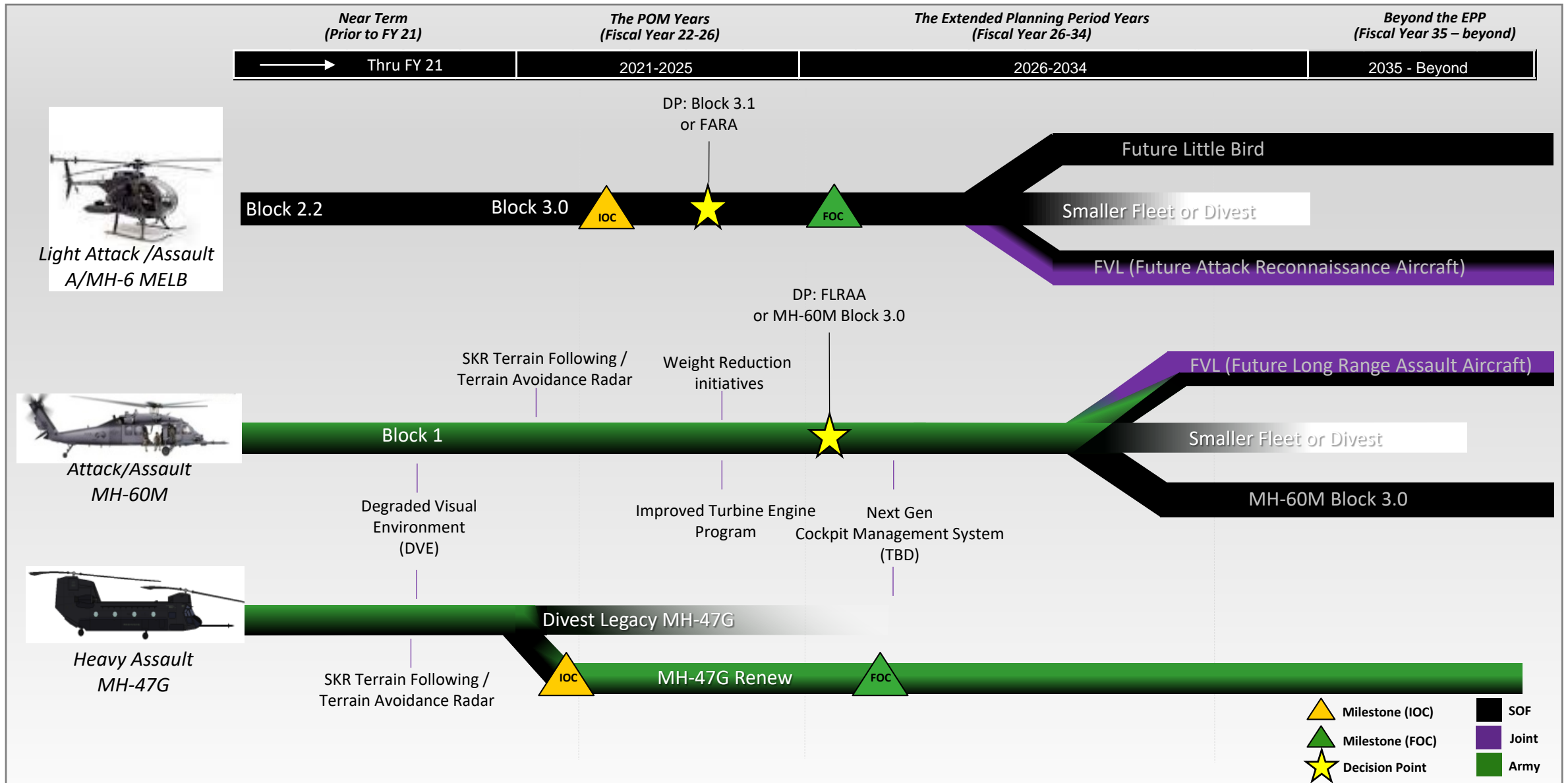
Training / Virtual Reality



Data Science

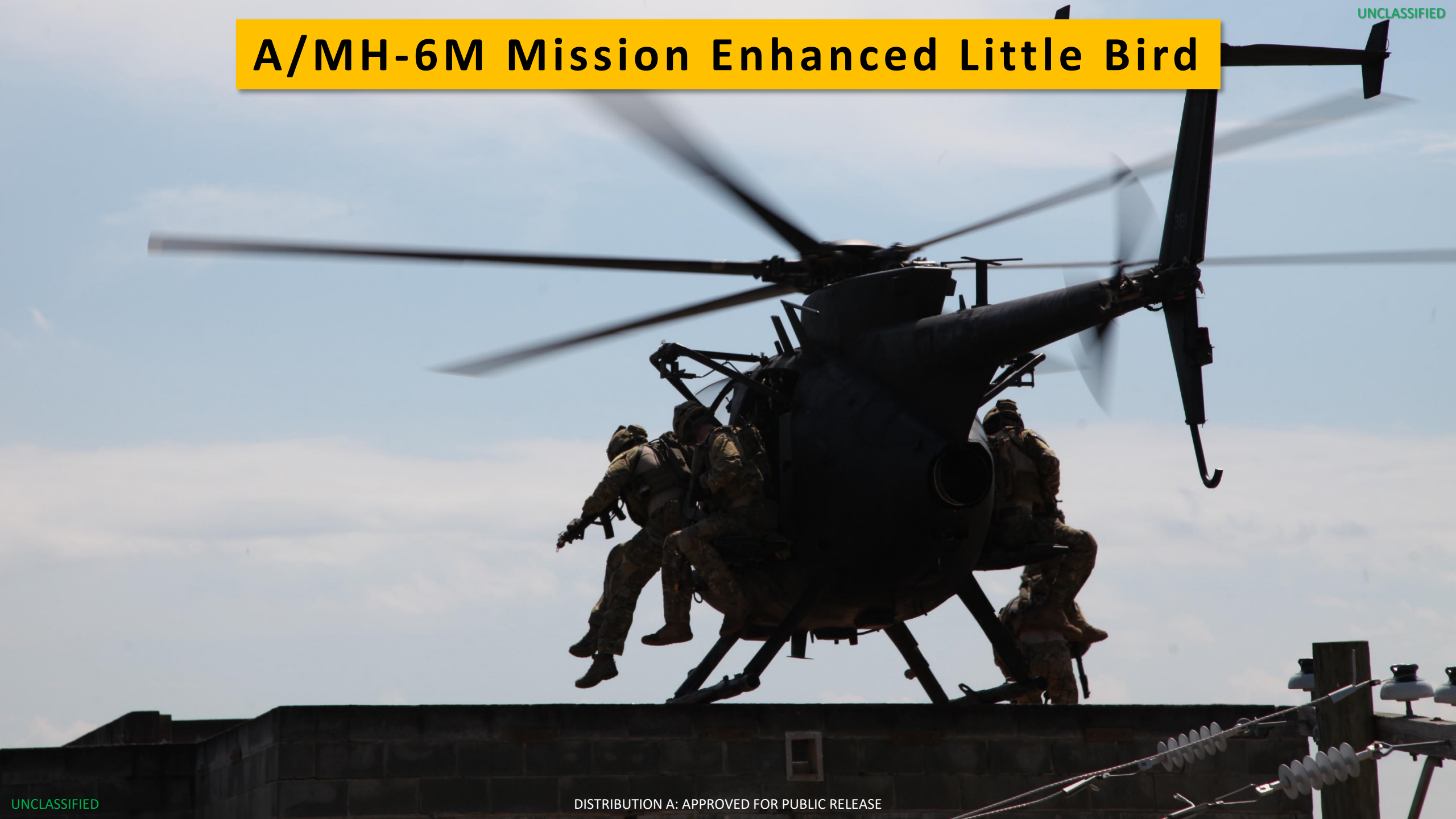
Future Investments

# SOF Rotary Wing Platform Roadmap





# A/MH-6M Mission Enhanced Little Bird





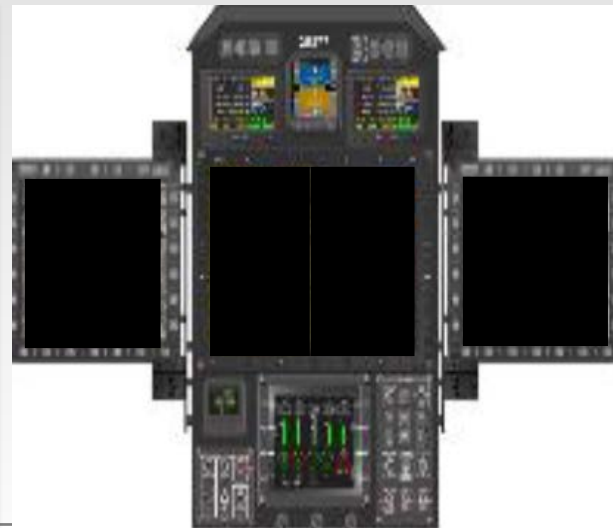
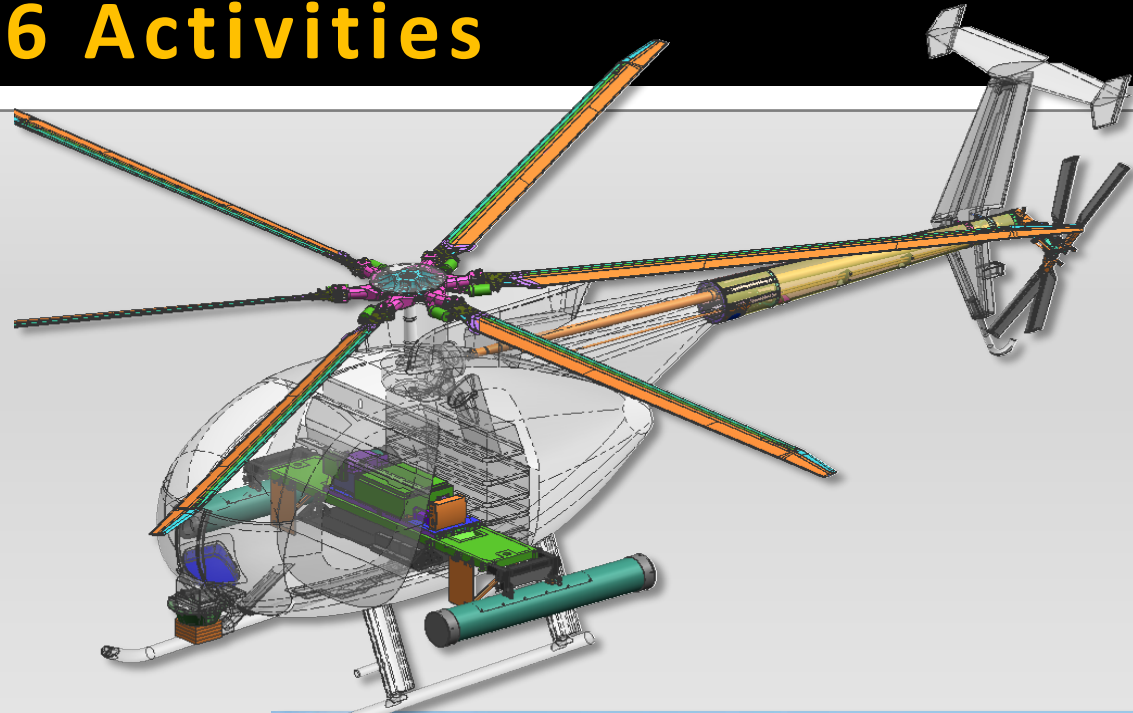
# A/MH-6 Activities

## Block 2.2 upgrade execution

- Improves crew safety

## Block 3.0 upgrade

- Improves safety margin
- Improves flight controls
- Improves cockpit





# MH-47G Chinook

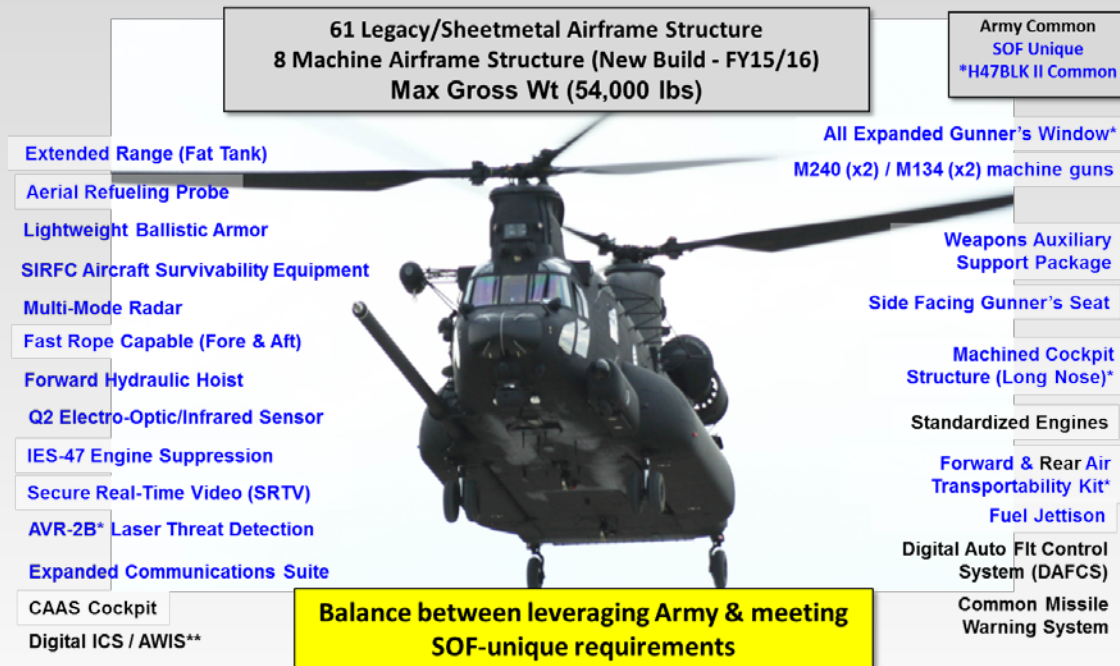




# MH-47G Activities

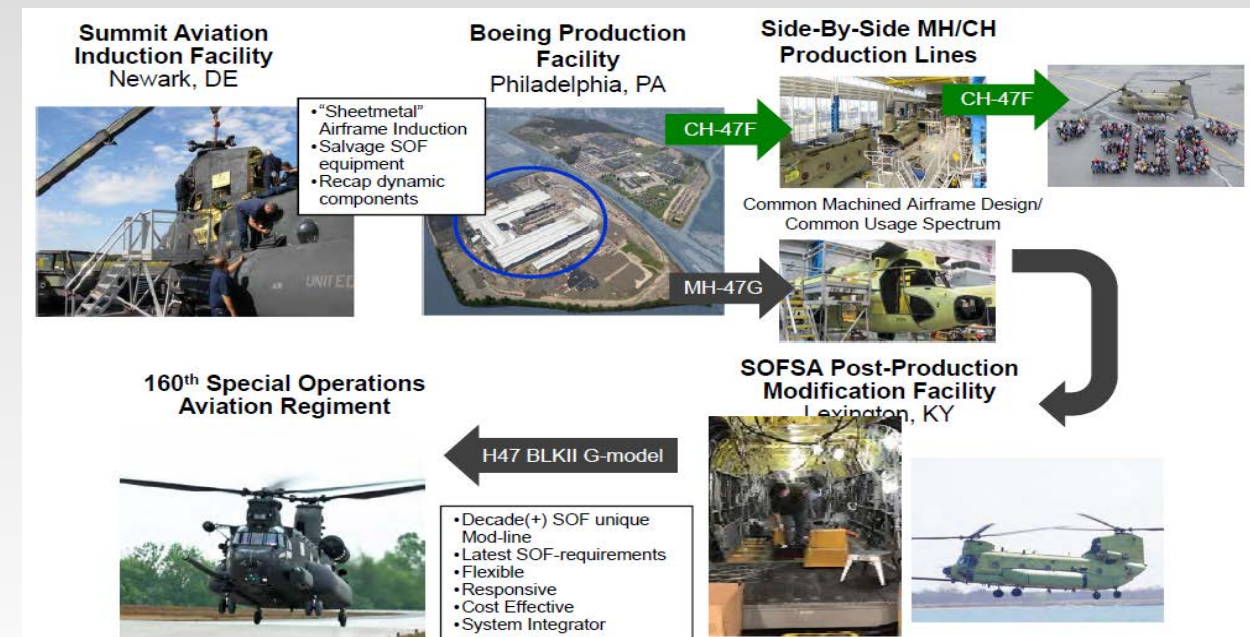
## Block II Renew

- Modernization and Recap program for the remaining legacy airframes
- Executed in collaboration with the Army



## Development efforts

- Advanced Parallel Actuator System (APAS)
- Engine Barrier Filter



# MH-60M Blackhawk



# MH-60M Activities

## Block 1.0 upgrade execution

- Greater directional control
- Tactical Mission Networking
- Degraded Visual Environment
- DC Powered Mini-gun System
- Weight Reduction Initiatives



# Mission Equipment Activities

## Aircraft Survivability Equipment:

- IR Countermeasure Development
- RF Countermeasure Improvements
- Ballistic Protection

## Sensors and Weapons:

- Degraded Visual Environment Development
- Improved RW Electro Optical Sensor (IRES)
- New Terrain Following / Terrain Avoidance Capability

## Avionics:

- Tactical Mission Network Integration
- Mission Processor Upgrades

## Sustainment:

- Sustain operational availability
- Control sustainment costs of mission equipment

Direct Fire Threat  
(Detect and Locate)



Radar Threat  
(Receive and Jam)



EO/IR Missile Threat (Detect  
and Decoy/Jam)



Degraded Visual Environment



Ground Force  
Software Compatible



GOTS/COTS  
Material Solution

Moving map with other  
Friendly icons shown



Live video with location of  
Video shown on imagery

# Future Vertical Activities

**FLRAA:** Aerial Refueling; Transportability, Terrain Following-Terrain Avoidance (TFTA)

**FARA:** Aerial Refueling; Transportability and Passenger Payload/Carry (Internal & External)

**MOSA:** ARSOA MOSA enabled Common Cockpit Analysis; MOSA Cyber Security Analysis

**ALE:** ALTIUS-600 integration onto H-60 in support of X-Convergence Demo and Regimental ALE Requirement



ALTIUS-600



**Intent: Integrate USSOCOM equities and requirements into the service-common development of a Multi-Service FVL aircraft.**



# Rotary Wing Interest Areas

## ❖ Mission Simulation and Training

- Immersive Leader/Aviator Training and Development

## ❖ Next Generation Cockpit

- Total Situational Awareness/Tactically Relevant Situational Awareness

## ❖ Modular Open Systems Architecture

- Ensure Compatibility with SOF capability

## ❖ Assured Communications, Navigation and Timing

- Spectrum Adaptive Agility

## ❖ Improved Survivability

- Multi-spectral solutions

## ❖ Enduring Fleet Capability Restoration and Enhancement

- Payload Restoration

## ❖ Air Launched Effects

- Increased Interoperable Capability

## ❖ Precision Strike

- Improved Lethality and Range





# QUESTIONS

