EXPANDING THE COMPETITIVE SPACE

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Mr. Geoff Downer, SES, PROGRAM EXECUTIVE OFFICER

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


NIGHT STALKERS

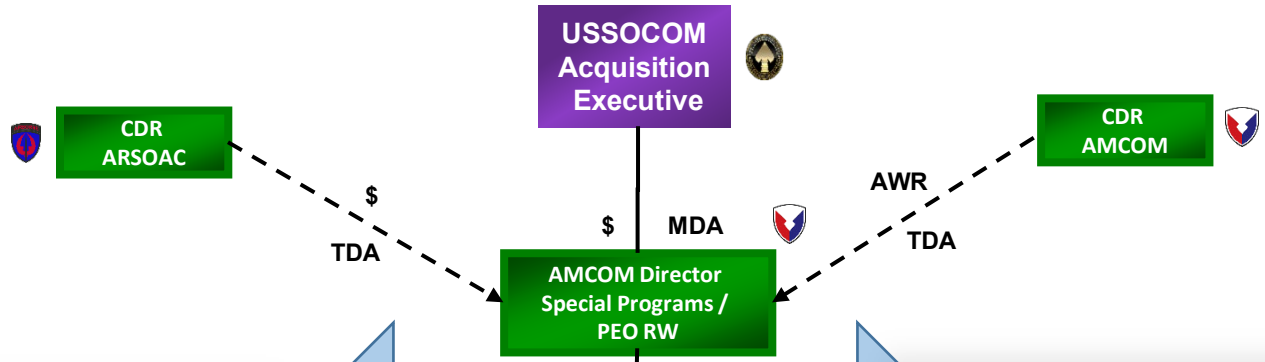
COVID 19

- 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

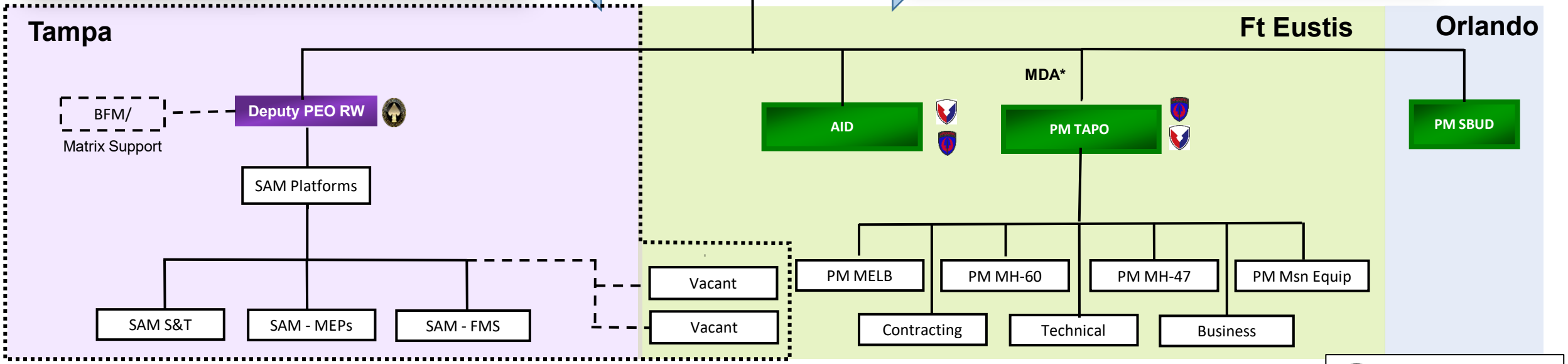
PEO Rotary Wing Acquisition Chain of Command



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.



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.

AMCOM Personnel
USASOAC Personnel
USSOCOM Personnel

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

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

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

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

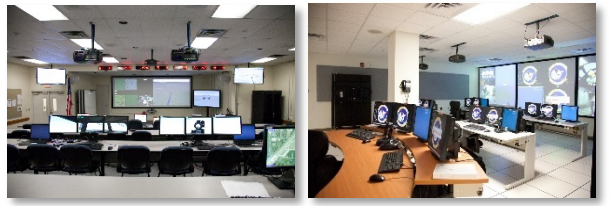
Common Hardware and Software

TRAINING SYSTEMS

A/MH-6M (Little Bird) CMS

MH-47G CMS

MH-60M CMS



Mission Rehearsal Exercise Training System (MRETS)

Stimulated vs Simulated

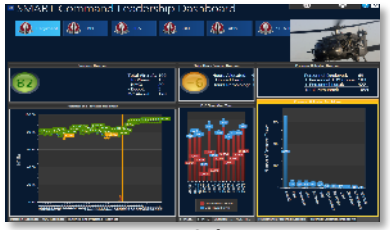
S&T

Combined Efforts with FVL CFT

FARA

FLRAA

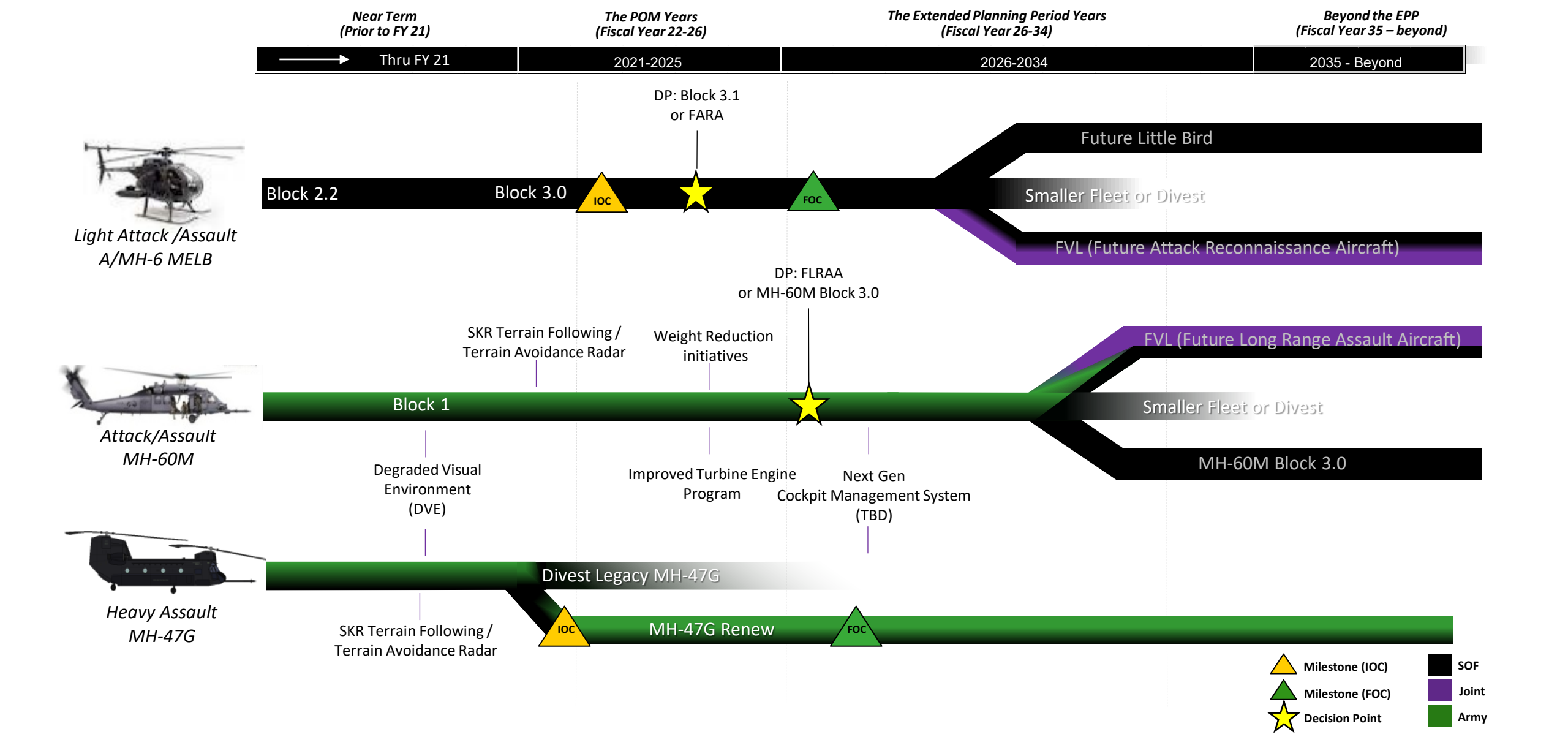
Training / Virtual Reality



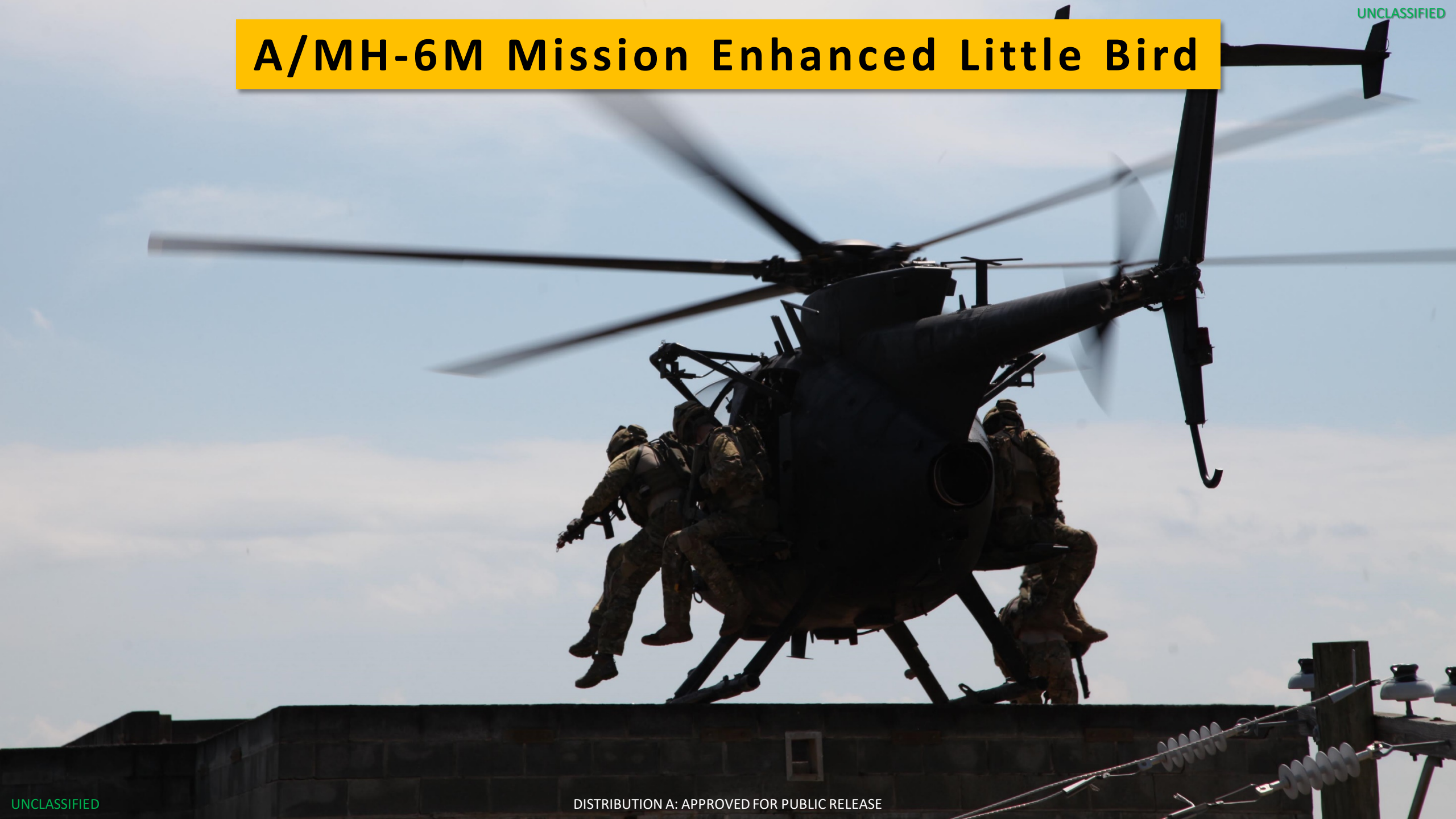
Data Science

Future Investments

SOF Rotary Wing Platform Roadmap



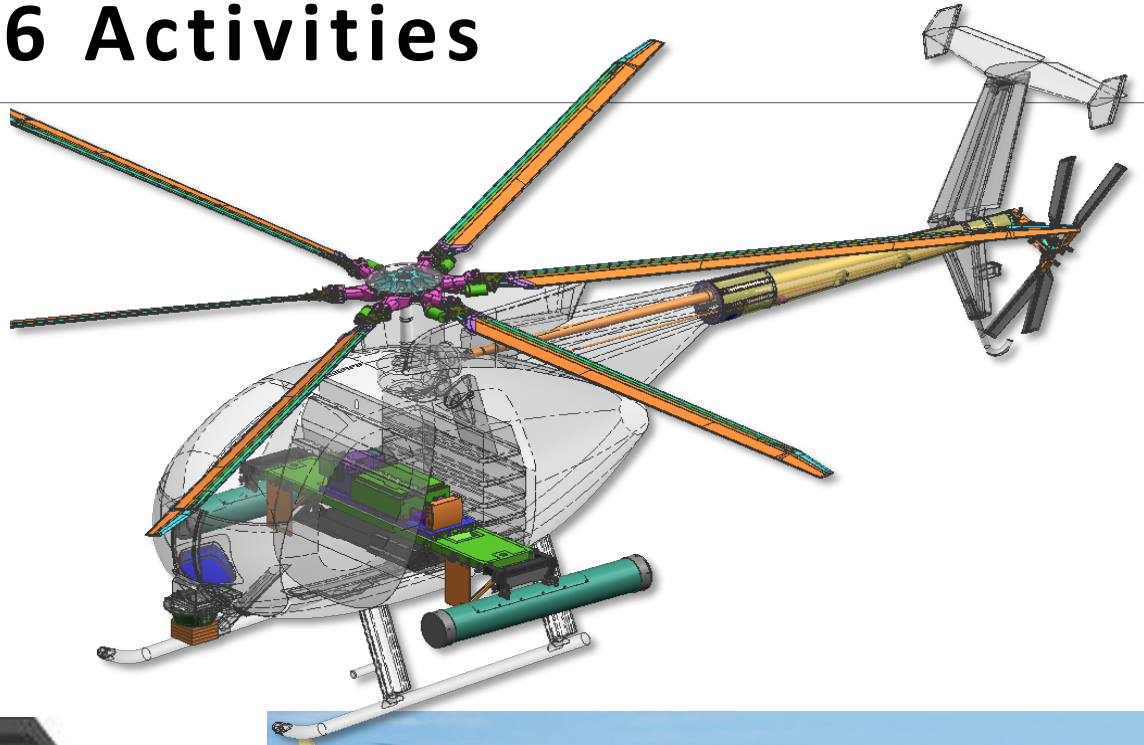
A/MH-6M Mission Enhanced Little Bird



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

61 Legacy/Sheetmetal Airframe Structure
8 Machine Airframe Structure (New Build - FY15/16)
Max Gross Wt (54,000 lbs)

Army Common
SOF Unique
*H47BLK II Common

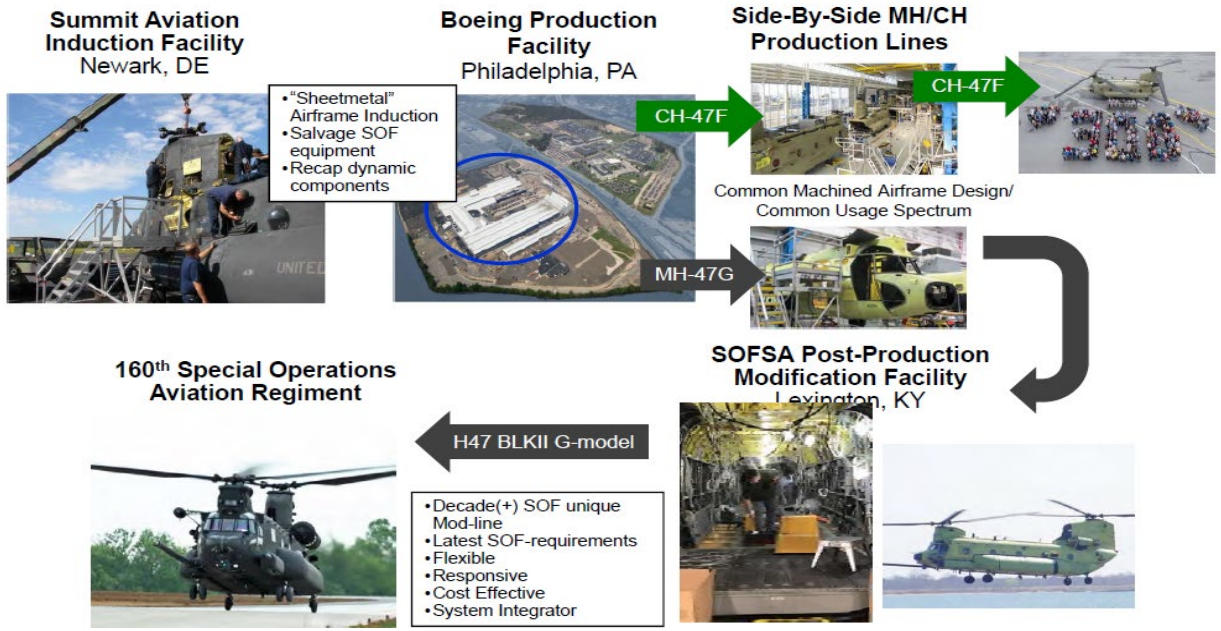
Extended Range (Fat Tank)
Aerial Refueling Probe
Lightweight Ballistic Armor
SIRFC Aircraft Survivability Equipment
Multi-Mode Radar
Fast Rope Capable (Fore & Aft)
Forward Hydraulic Hoist
Q2 Electro-Optic/Infrared Sensor
IES-47 Engine Suppression
Secure Real-Time Video (SRTV)
AVR-2B* Laser Threat Detection
Expanded Communications Suite
CAAS Cockpit
Digital ICS / AWIS**

All Expanded Gunner's Window*
M240 (x2) / M134 (x2) machine guns
Weapons Auxiliary Support Package
Side Facing Gunner's Seat
Machined Cockpit Structure (Long Nose)*
Standardized Engines
Forward & Rear Air Transportability Kit*
Fuel Jettison
Digital Auto Flt Control System (DAFCS)
Common Missile Warning System

Balance between leveraging Army & meeting SOF-unique requirements

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:

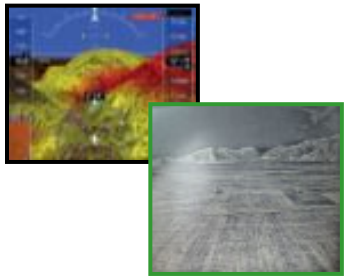
- Sustain operational availability
- Control sustainment costs of mission equipment

Direct Fire Threat (Detect and Locate)

Radar Threat (Receive and Jam)

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

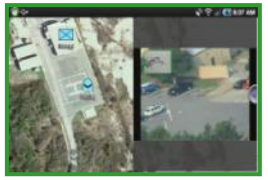
Degraded Visual Environment



Ground Force Software Compatible

GOTS/COTS Material Solution

Moving map with other Friendly icons shown



Live video with location of Video shown on imagery

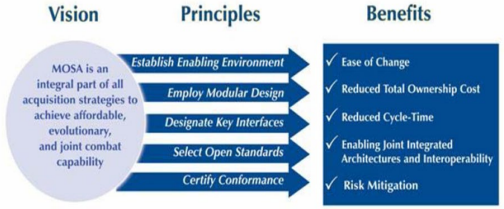
Future Vertical Activities

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

MOSA



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