



SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS
EXPANDING THE COMPETITIVE SPACE

Mr. Geoff Downer, SES, Program Executive Officer
ROTARY WING



Schedule of Virtual Presentations

Wed
19 MAY 2021
0900-1000

PEO RW
Strategic Overview

Tues, Thu, and Fri
18MAY21 0900-1130
18MAY21 1300-1400
18MAY21 1545-1645
20MAY21 1400-1700
21MAY21 0800-1145

PEO RW One-on-One Sessions
15 Minute Increments


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**
 (Resource Sponsor)
 FT Bragg, NC


TAPO
 (Materiel Developer)
 FT Eustis, VA

**PEO SOF Training Systems
(STRI)**
 Orlando, FL




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

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



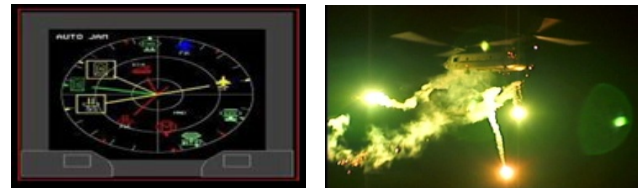
MH-47 Heavy Assault



Airframe Recapitalization

MISSION EQUIPMENT

Active Aircraft Survivability Equipment



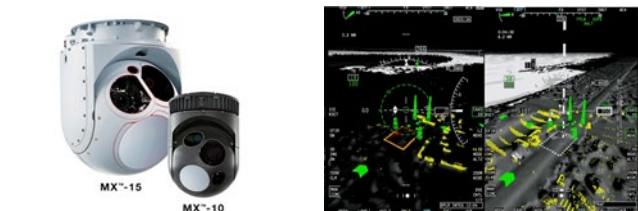
Passive Aircraft Survivability Equipment



Avionics and Airborne Communications



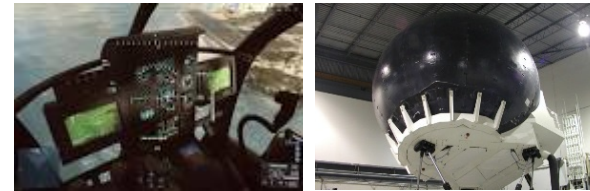
Sensors



Common Hardware and Software

TRAINING SYSTEMS

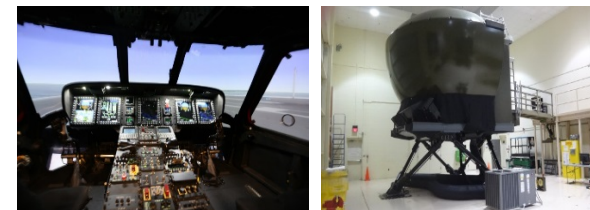
A/MH-6M (Little Bird) CMS



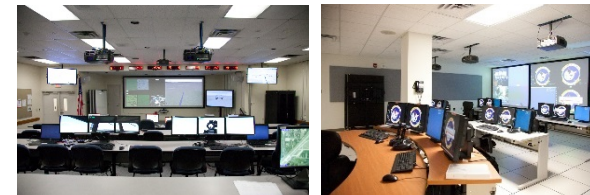
MH-47G CMS



MH-60M CMS



Mission Rehearsal Exercise Training System (MRETS)



Stimulated vs Simulated

Futures Efforts

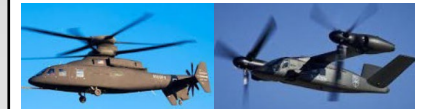


Combined Efforts with FVL CFT

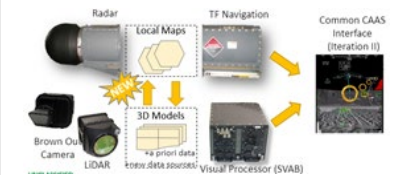
FARA



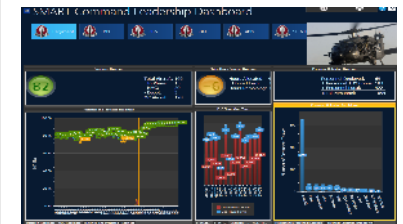
FLRAA



Data Fusion

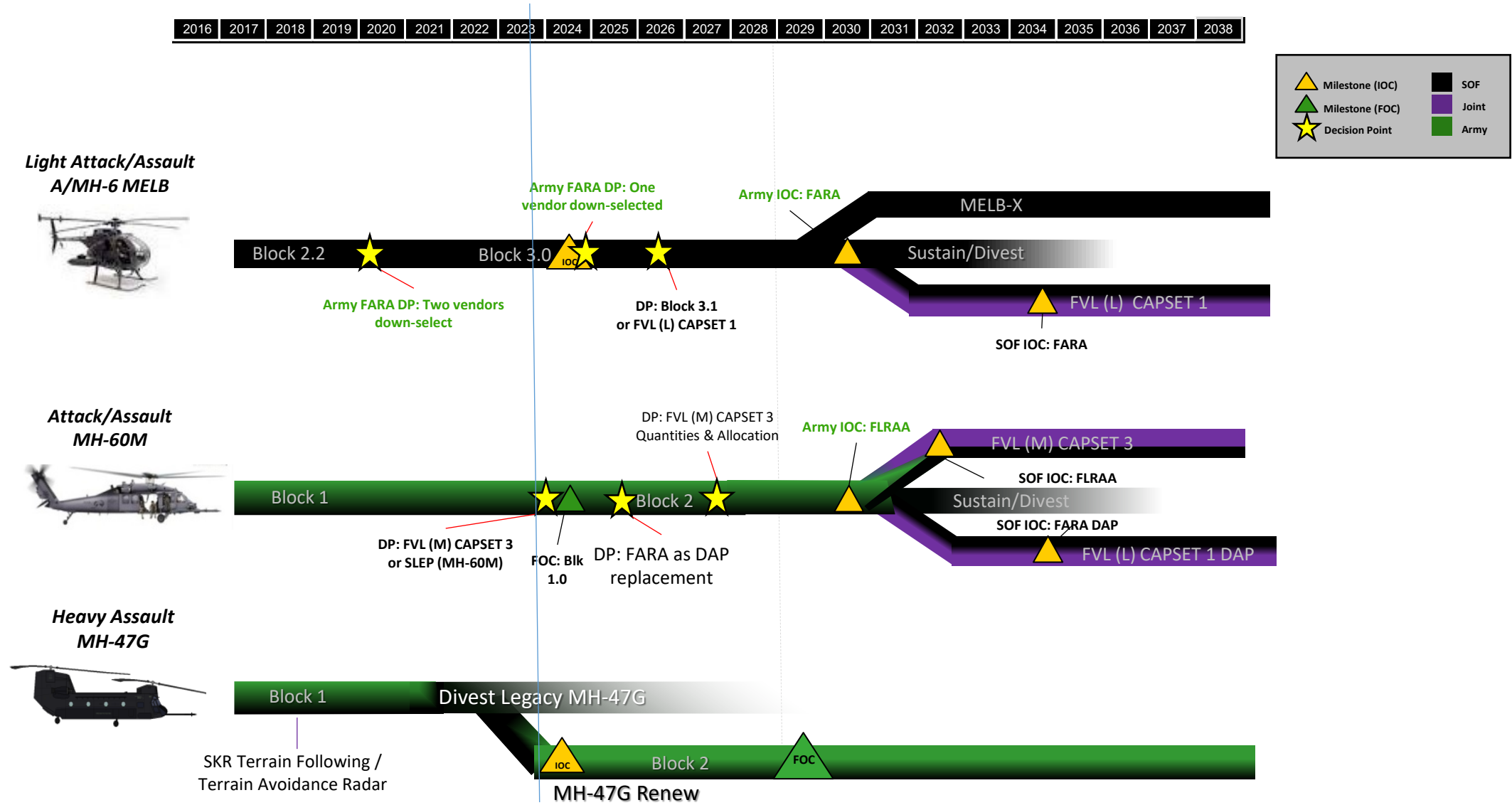


Data Science

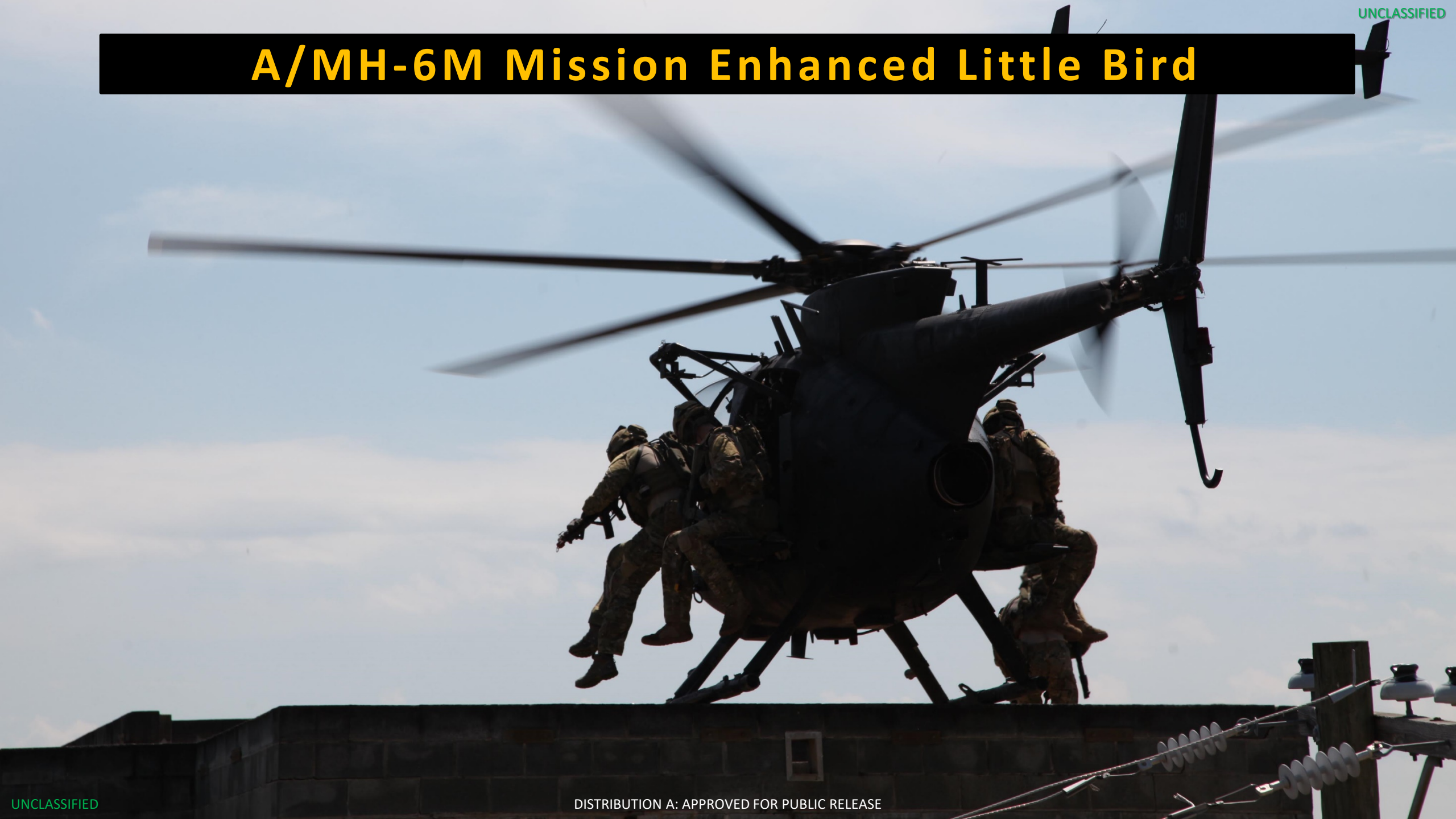


Future Investments

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



A/MH-6M Block 2.2



A/MH-6M Block 3.0/R



MH-60M Blackhawk



MH-60M Activities

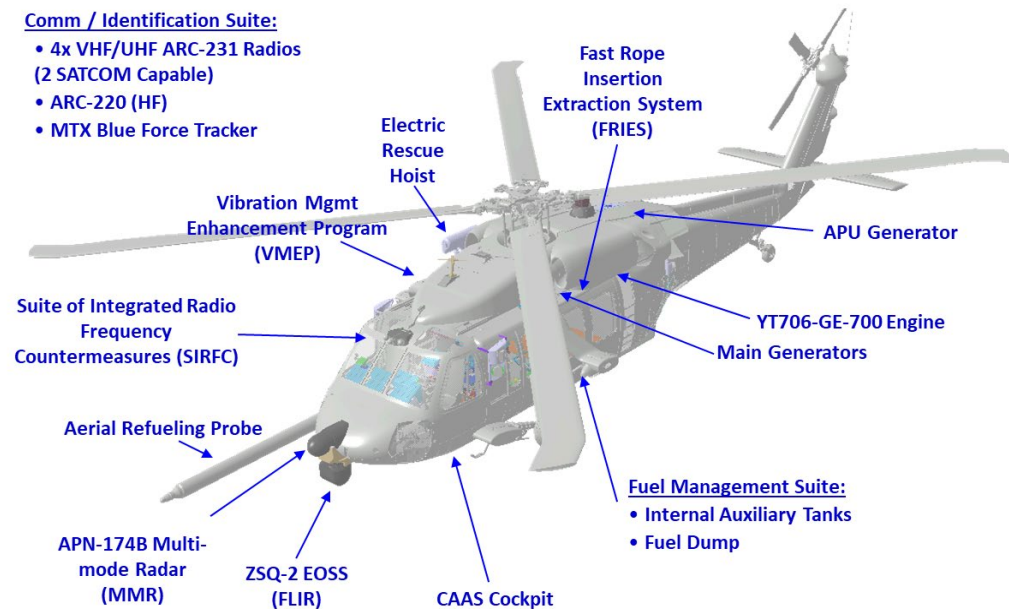
Block 1.0 upgrade execution

- Improved directional control
- Tactical Mission Networking
- Degraded Visual Environment
- DC Powered Mini-gun System

MH-60M SOF-Unique Modifications (SOFA-Lexington, KY)

Comm / Identification Suite:

- 4x VHF/UHF ARC-231 Radios
(2 SATCOM Capable)
- ARC-220 (HF)
- MTX Blue Force Tracker



MH-60M Block 1.0 Modifications (Post Production at SOFA-Lexington, KY)

Block 1.0 Mods

- Airframe Structural Mods (incl. FS 379 Crack Fix)
- Secure Real-Time Video (SRTV) Universal Antenna Platform
- 105% Nr
- Fuel Hose Modification
- Crew Chief Split Window



Block 1.0 DAP Mods

- Common Helmet Mounted Display (CHMD)
- Multi-Station Lightweight Armament Support System



MH-47G Chinook



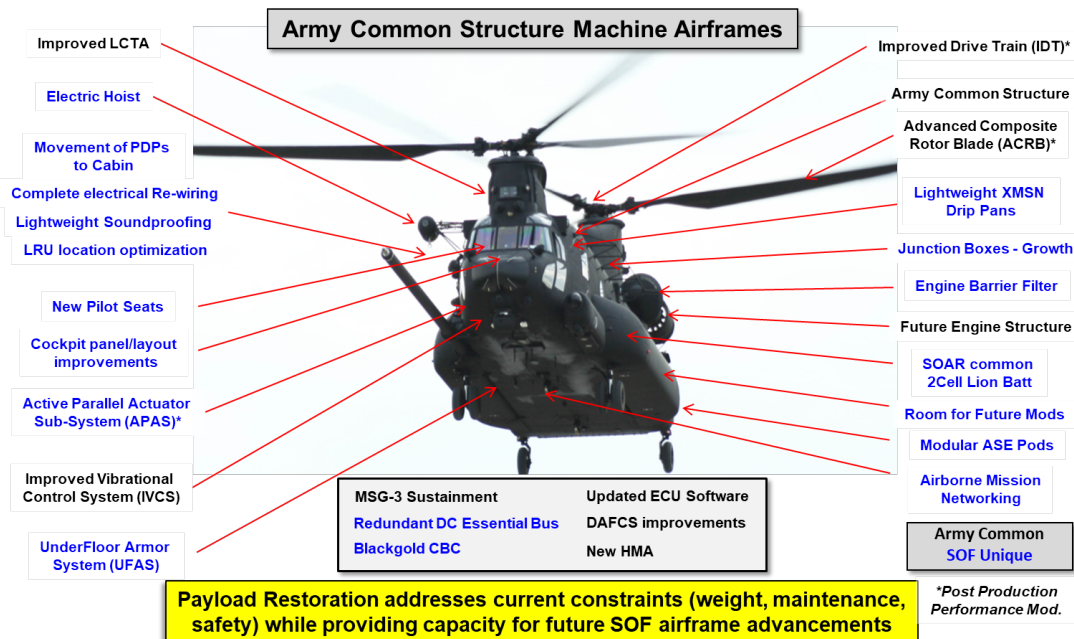
MH-47G Activities

Block II Renew

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

Development efforts

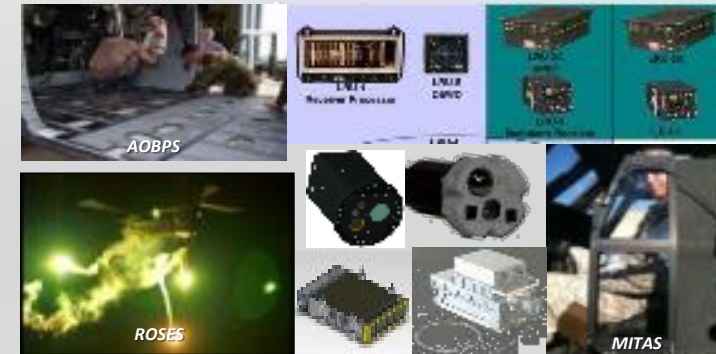
- Advanced Parallel Actuator System (APAS)
- Engine Barrier Filter



Mission Equipment Activities

Aircraft Survivability Equipment:

- IR Countermeasure Development
- RF Countermeasure Improvements
- Ballistic Protection



Lightweight MANPADS Counter-measures

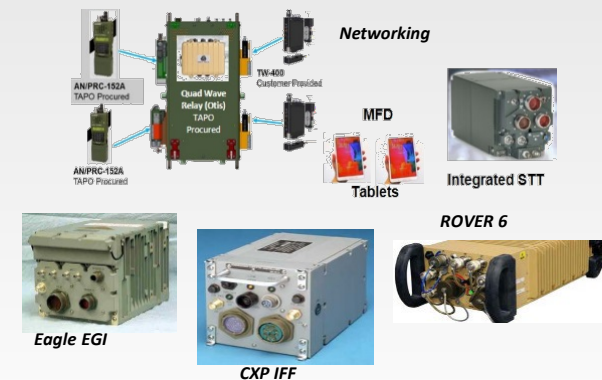
Sensors:

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



Avionics:

- Tactical Mission Network Integration
- Mission Processor Upgrades



Future Vertical Activities

FARA: Aerial Refueling; Troop Transport, Air Transport and incorporation of SOF unique Mission Equipment Packages

FLRAA: Aerial Refueling; Air Transport, Electro-Optical/Infrared sensor, Terrain Following Terrain Avoidance radar, Degraded Visual Environment system, Advanced Aircraft Survivability Equipment.

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

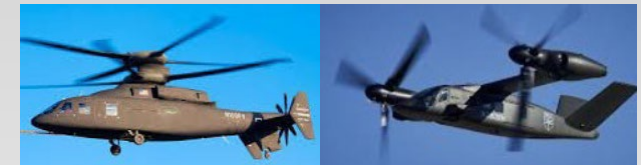
ALE: ALTIUS-600 integration onto H-60 in support of X-Convergence Demo and Regimental ALE Requirement



FARA



FLRAA



MOSA



ALTIUS-600



Intent: Integrate USSOCOM 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 Radar**
 - Active Electronically Steerable Array
- **Modular Open Systems Architecture**
 - Efficient adoption of new technology
- **Assured Communications, Navigation and Timing**
 - Spectrum Adaptive Agility
- **Improved Survivability**
 - Multi-spectral solutions
- **Enduring Fleet Capability Restoration and Enhancement**
 - Carbon Fiber and other lightweight composites to replace large airframe pieces to reduce weight
- **Air Launched Effects**
 - Increased Interoperable Capability
- **Precision Strike**
 - Improved Lethality and Range
- **Data Fusion**
 - Merging of disparate data leveraging AI and machine learning



QUESTIONS

