

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Accelerating SOF Innovation

Program Executive Office Rotary Wing



Schedule of Presentations

Day 1 – Tuesday 21 May 2019

1330 - 1530 PEO RW Strategic Overview

1600 - 1630 PEO One-on-One Sessions Day 2 – Wednesday 22 May 2019

1330 - 1500 Abbreviated PEO Overview Rotary Wing PM Panel

1530 – 1600 PEO One-on-One Sessions

STRATEGIC OVERVIEW PROGRAM EXECUTIVE OFFICE ROTARY WING

COL David Phillips

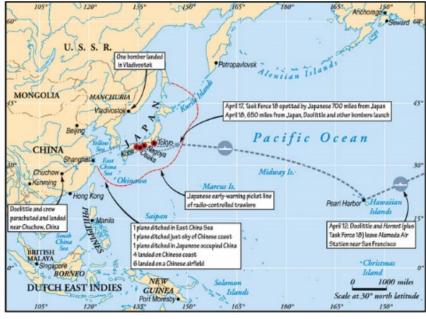
Program Executive Officer

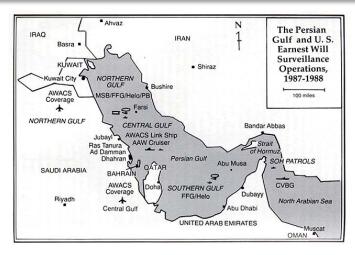


Perspective







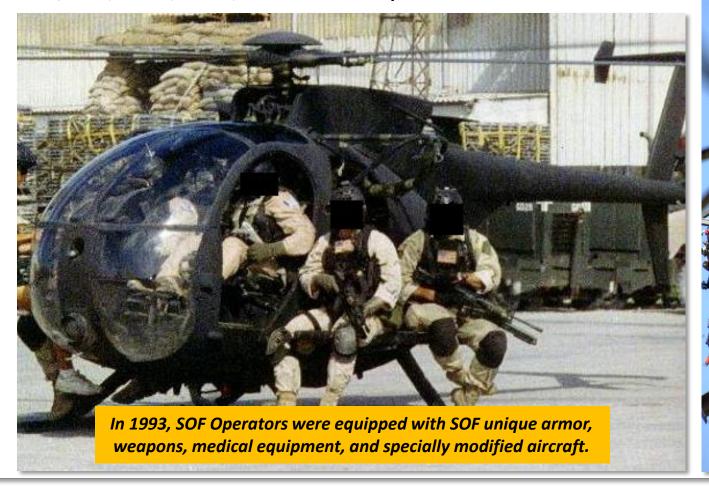






History Still Matters

In September 1991 the SOCOM Deputy for Acquisitions office was created. The Mission Enhanced Little Bird became the office's first program of record. Today, SOF AT&L and PEO Rotary Wing continues to push the capability envelope for the A/MH-6, MH-47, MH-60, and other aircraft systems.



The max gross weight of the A/MH-6 has increased from 2400 lbs (-6A), to 3550 lbs (-6C), to 3950 lbs (-6J), to 4700 lbs (-6M), to 4700+ lbs (-6M Blk 3).

National Defense Strategy - Why We Are Here

First, Rebuilding Military Readiness as we Build a more Lethal Joint Force;

- ...strike diverse targets inside adversary air and missile defense networks to destroy mobile power-projection platforms.
- ...a competitive approach to force development and a consistent, multiyear investment to restore warfighting readiness and field a lethal force.

Second, <u>Strengthening Alliances</u> as we Attract new Partners;

- ...train to high-end combat missions in our alliance, bilateral, and multinational exercises.
- ...expand access to outside expertise, and devise new public-private partnerships to work with small companies, start-ups, and universities.

Third, <u>Reforming the Department's</u> Business Practices for Greater Performance and Affordability.

- ...shed outdated management practices and structures while integrating insights from business innovation.
- ...explore streamlined, non-traditional pathways to bring critical skills into service.

Requires a Government and Industry Partnership

Program Executive Office Rotary Wing

Mission: Rapid and focused acquisition, research and development, and life-cycle logistics support to the operators of the USASOAC—160th Special Operations Aviation Regiment which provides SOF rotary wing capability to the joint force.



Sustain current operations, preserve and grow <u>readiness</u>.

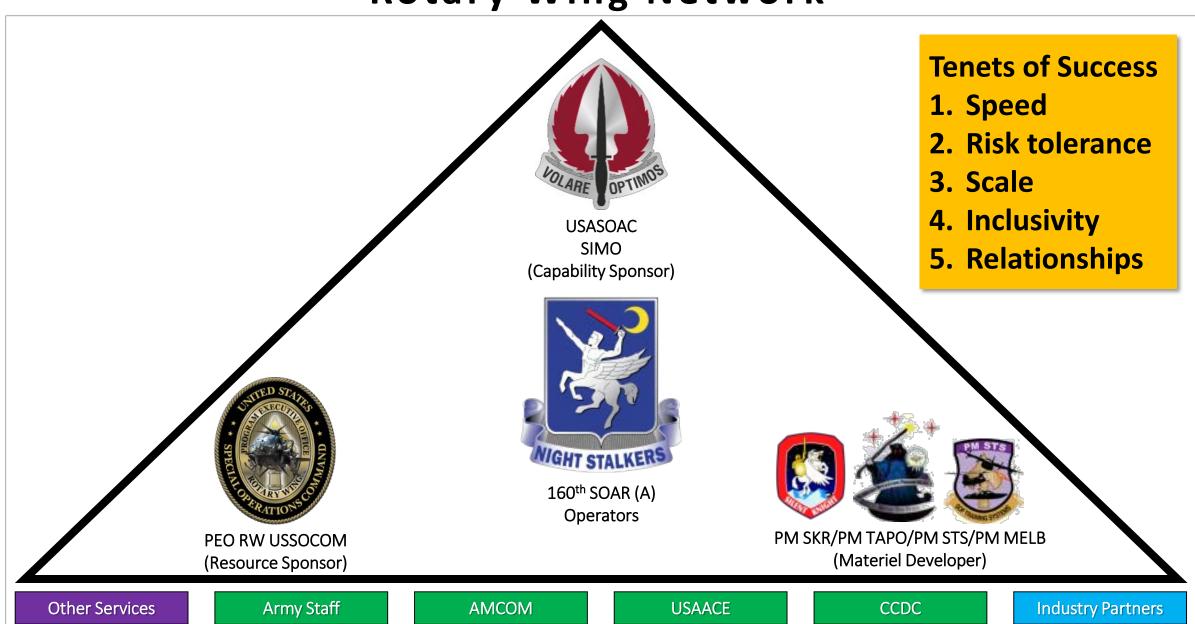


Strategic resource sponsorship to recapitalize our fleet, increase lethality and survivability, and innovate for future threats. Relentlessly build the competitive advantage.



Support and sustain the people and program offices, while preserving our force and family.

Rotary Wing Network



Program Executive Office Rotary Wing (RW)

MOBILITY



A/MH-6 Light Attack/Assault



Medium Assault MH-60



Heavy Assault MH-47

Airframe Recapitalization

MISSION EQUIPMENT



Active Aircraft Survivability Equipment



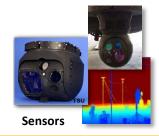


Passive Aircraft Survivability Equipment





Avionics





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

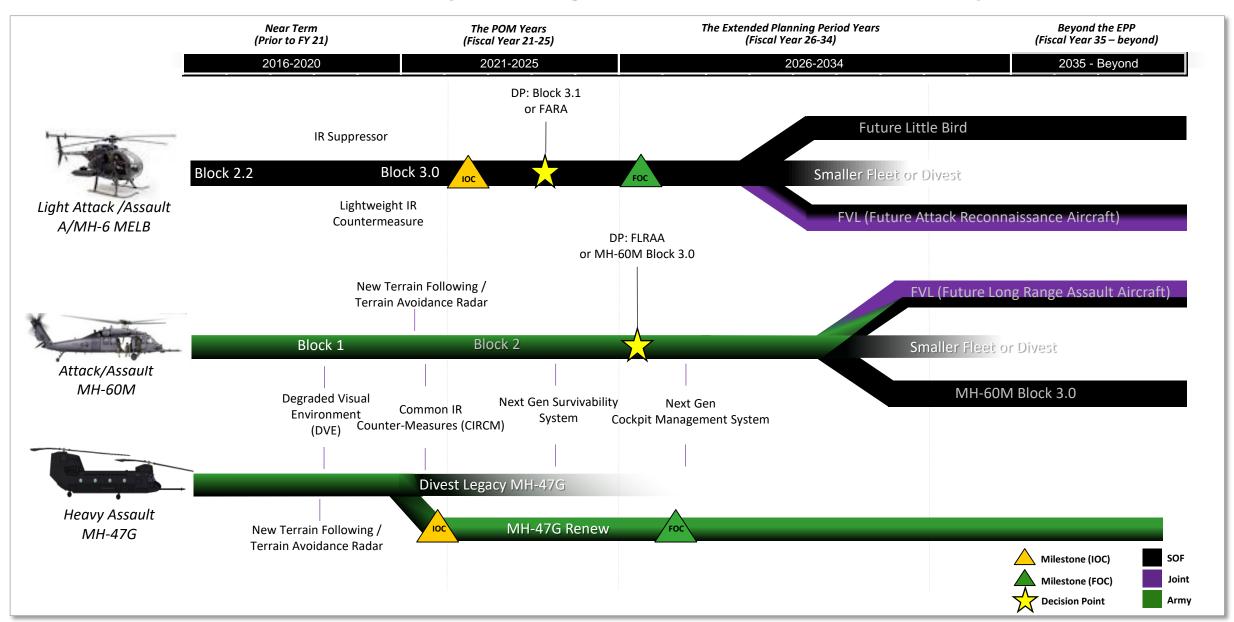


Training / Virtual Reality



Future Investments

SOF Rotary Wing Platform Roadmap



Mobility









Block 2.2 upgrade execution

- Improves crew safety Block 3.0 upgrade
- Improves safety margin
- Improves flight controls
- Improves cockpit







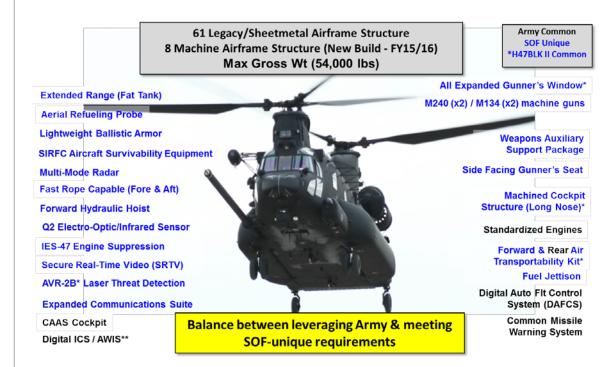
A/MH-6 Activities



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 Activities

Block 1.0 upgrade execution

- Greater directional control
- Tactical Mission Networking
- Degraded Visual Environment
- DC Powered Mini-gun System
- Sustaining engineering







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 Radar

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)

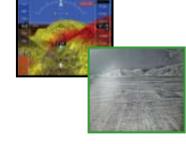


EO/IR Missile Threat (Detect and Decoy/Jam)



Degraded Visual Environment





Moving map with other Friendly icons shown



Live video with location of Video shown on imagery



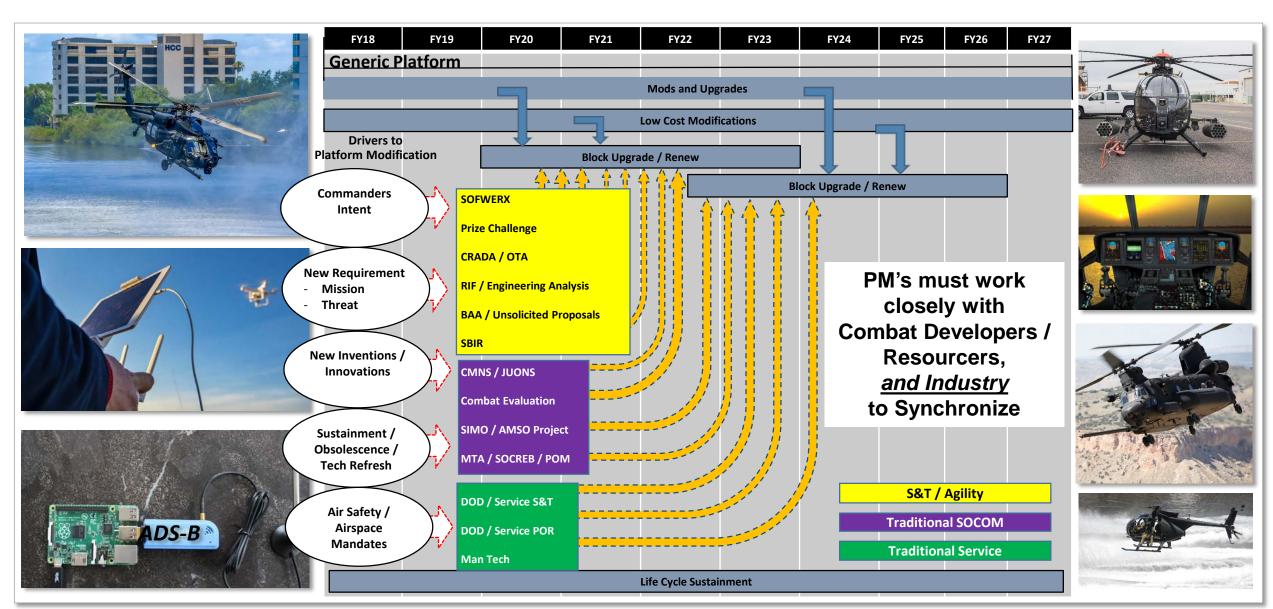
Ground Force Software Compatible



GOTS/COTS
Material Solution



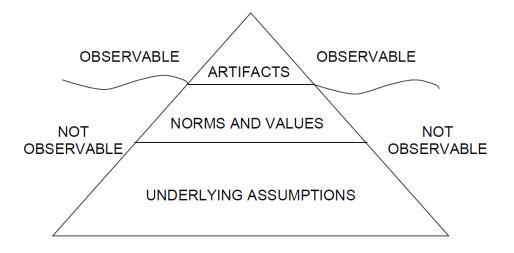
Acquisition Tools Across the Life Cycle



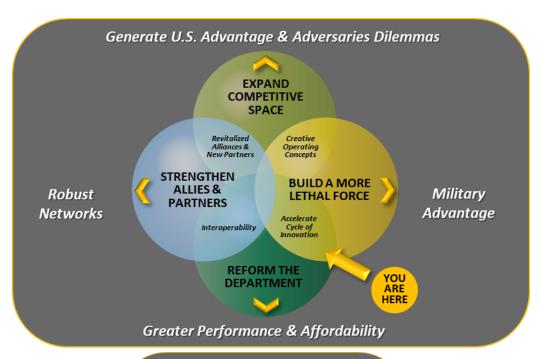
Tenets of Success / Debunking Myths

- 1. Speed
- 2. Risk tolerance
- 3. Scale
- 4. Inclusivity
- 5. Relationships

- 1. Big programs
- 2. No requirements
- 3. Different funding
- 4. No testing
- 5. Always Successful



We Need Creative Solutions from Industry



What Congress and DoD authorized

Middle Tier Acquisition (MTA)
Other Transaction Agreements (OTA)
Cooperative Research &
Development Agreements (CRADA)
Empowered/Decentralized Decision
Authority

What can Industry do?

Contract response timelines?
Pricing timelines?
Levels of oversight?

- Decrease "flash-to-bang" time on delivering systems to the Warfighter
- Increase speed of responding to RFPs
- Reduce unproductive portions of procurement lead-time
- Reduce lead times for weapon system procurement
- Offer ways to hyper-enable aircrews and operators
- Integrate federated, complementary systems to aid in rapid, decisive decision-making
- Explore future RW capabilities; support FVL development
- How can we make what we have more effective?

Near-Term Opportunities

Upcoming SOFWERX Events

https://www.sofwerx.org/aviation/





Special Operations Forces Aviation
Systems Trainers - Enhancements
(SOFAST-E II) Industry Day

June / July 2019

https://www.fbo.gov/

