SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

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ROTARY WING

Agenda

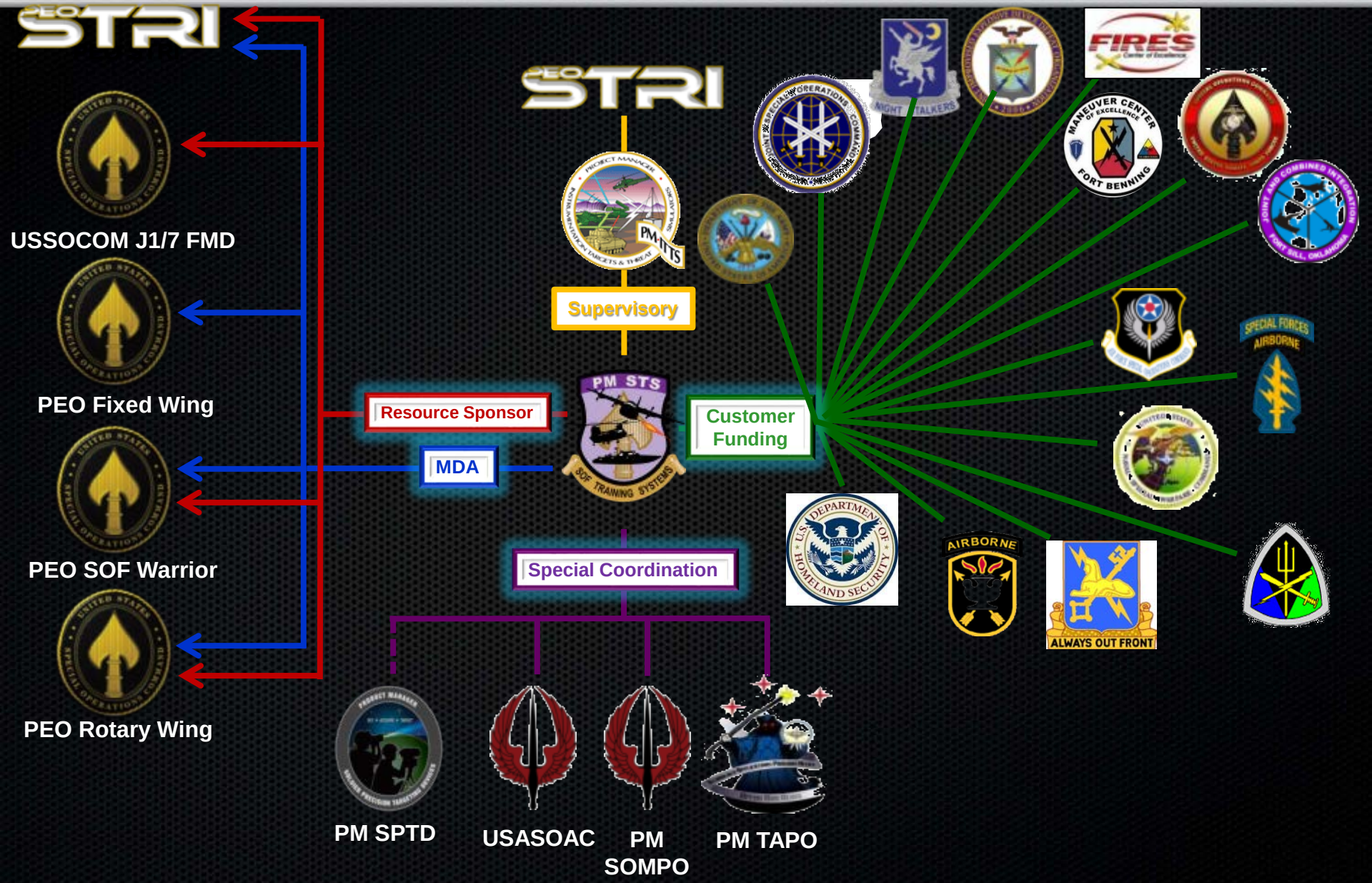
- PM Special Forces Training Systems (PM STS) Mission
- Training Systems
- PM STS Universe
- Rotary Wing Network
- SOF Aviation Simulator Block Upgrades
- Simulator Block Upgrades (SBUDs) Mission
- Operational Concept
- Product Portfolio
- History
- Schedule
- Recent Accomplishments
- Simulation vs Stimulation Strategy
- Priorities and Initiatives

PM STS Mission

- Develop, field, sustain, and improve high quality mission, training, and preparation systems for Special Operations, Joint, Conventional, and Coalition Forces that meet or exceed Warfighters' requirements.

PM STS Training Systems

PM STS Universe



Rotary Wing (RW) Network

Resource SOF Rotary Wing Fleet

Equip the soldiers of the 160th SOAR(A) and the TSOCs SOF with unique and unequaled Rotary Wing capabilities.

Sustain the unique aircraft operated by the 160th SOAR(A) and the TSOCs.

Support the Global SOF Network through responsive resourcing.

160th SOAR (A) – TSOCs Operators

ARSOAC
SIMO
Capabilities Sponsor

PEO RW USSOCOM
Resource Sponsor

PM SKR/PM TAPO/PM STS/PM MELB
Materiel Developer

PM SKR: Silent Knight Radar

PM TAPO: Technology Applications Program Office

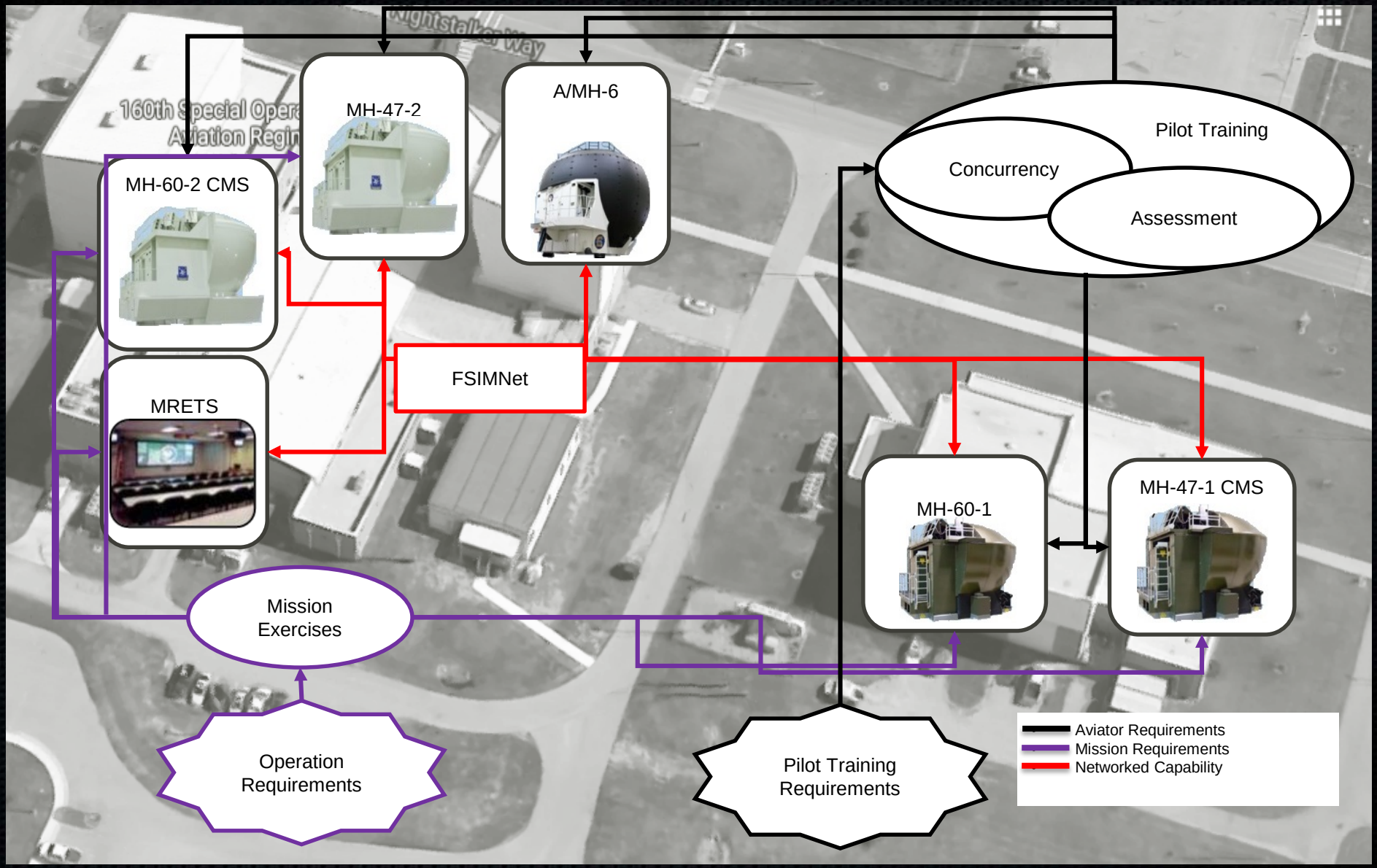
PM MELB: Mission Enhanced Little Bird

SOF Aviation Simulator Block Upgrades (SBUDs)

Simulator Block Upgrades Mission

- Procures and maintains high fidelity and fully mission capable MH-47G, MH-60M, A/MH-6 Combat Mission Simulators (CMS) and ancillary training devices for the 160th Special Operations Aviation Regiment Airborne (160th SOAR)(A). These CMSs must meet concurrency with the aircraft and provide realistic, full-spectrum, training and mission rehearsal capabilities.

Operational Concept



SBUD Product Portfolio

MH-47G-1

A/MH-6 (LASAR)

MH-60M-1

MH-47G-2

MH-60M-2

Combat Mission Simulators

Peripherals

Mission Rehearsal/ Simulation Training Exercises

Integration and Sustainment

Desktop Trainers

Cockpit Academic Procedural Trainers

Mission Rehearsal Exercise Training System

Mission Rehearsal Operations Center

Incident Investigation

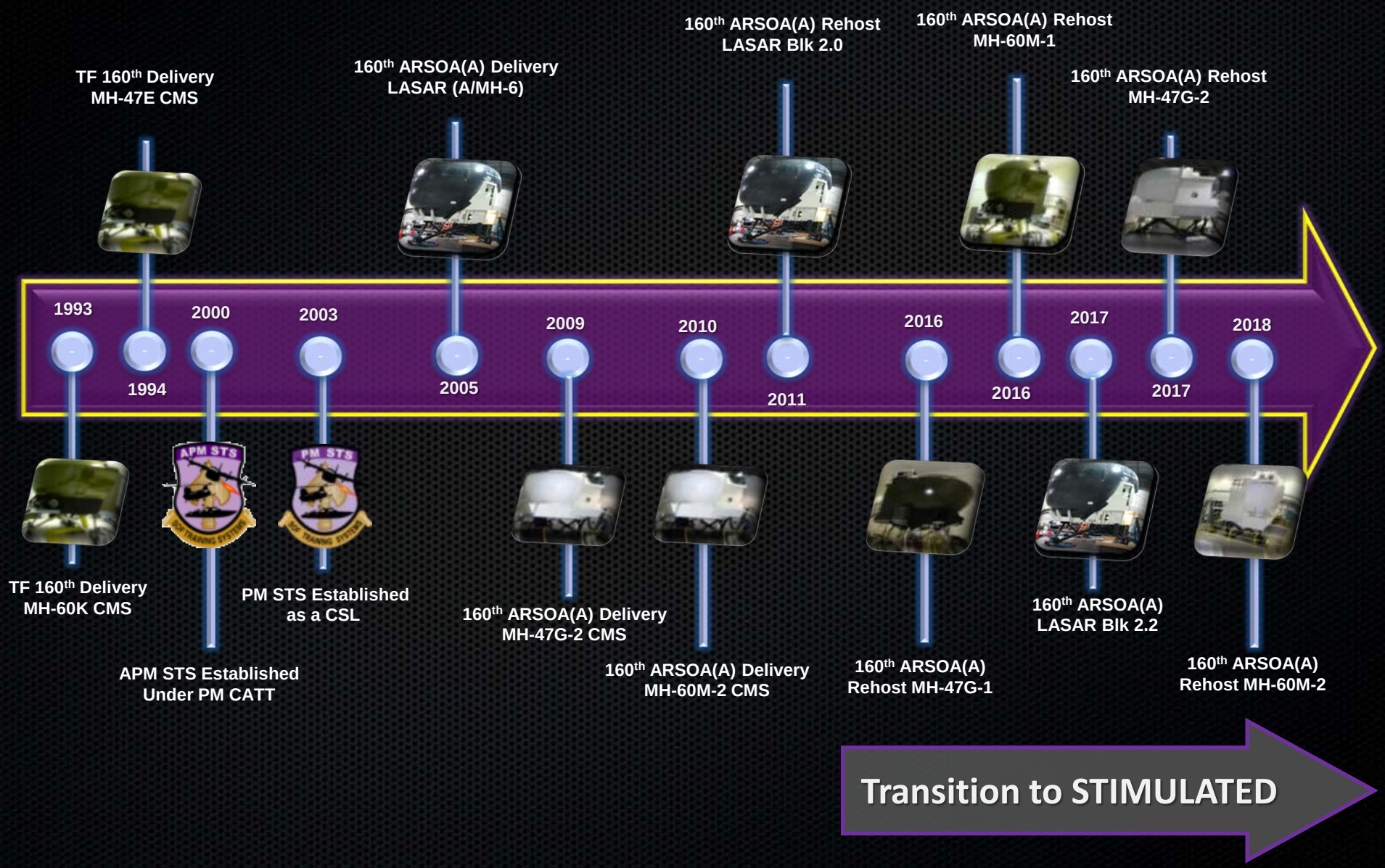
SOA Program Management Office

SOF Training, Engineering and Maintenance Support

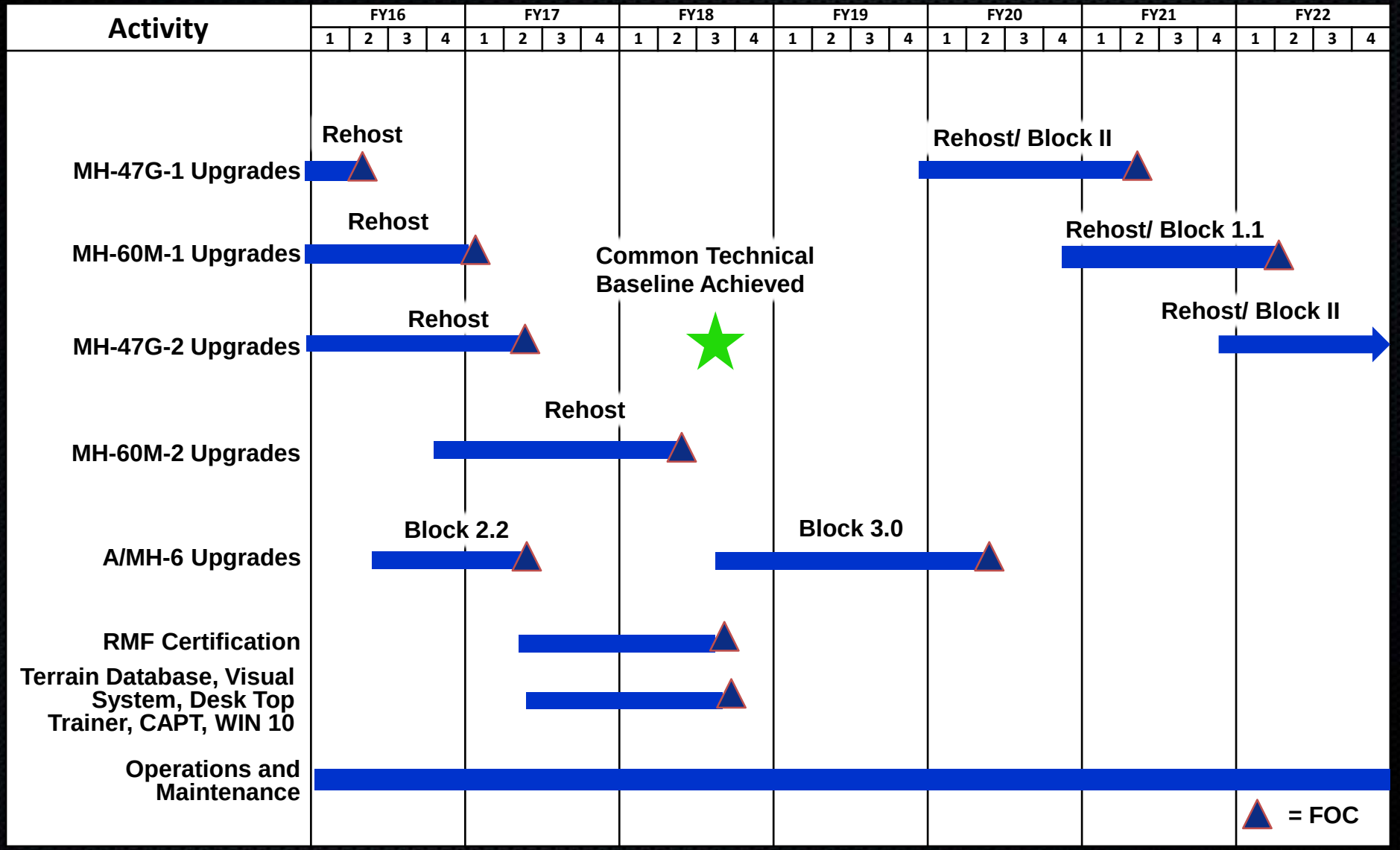
SOF Aviation System Trainer - Enhancements

SOA Simulation, Training and Rehearsal Support

SBUD's Organizational History



Simulator Block Upgrades Schedule



Recent Accomplishments

- MH-47-1 DD-250 signed Mar 2016
- MH-60-1 DD-250 signed Oct 2016
- MH-47-2 Government Acceptance Testing
- A/MH-6 Little Bird (LASAR) Block 2.2 upgrade and NEXUS Storage upgrade Government Acceptance Testing
- MH-60-2 Hardware Software Integration (HSI) ongoing

Simulation vs Stimulation Strategy

- Stimulation
  - Stimulated approach has the advantage in the Fidelity (Realism)
  - Lower developmental costs and Schedule
  - Lower overall cost
  - Supports earlier insertion Operational Flight Program Upgrades
  - Quick Line Replaceable Unit (LRU) replacement

- Simulation
  - Lower Initial Hardware Cost Commercial Off The Shelf (COTS)
  - Increased Developmental Cost and Schedule
  - Significant Recurring Cost
  - Hardware Versatility

Cheaper, quicker deliveries, proven solution

Future Areas of Interest

- Distributed Mission Operations (multi-station interoperability)
  - Connection over the STEN
  - Joint Training Capability
  - Requirement Definition Refinement
- Virtual Reality capabilities for new and existing systems
  - Multiple possible uses to meet various requirements
  - Mission Rehearsal thru Collective Trainers
  - Redesign of Existing Combat Mission Simulators
- Electric Motion Systems
  - Motion vs Non Motion
  - Weight
  - Cost Savings

SBUD Priorities and Future Competition

- Users' Priorities: Available, Concurrent, Interoperable
  - HW/SW Concurrency Across All Systems (CAAS, MSN Equipment, Block Upgrades)
  - Commonality Across all Systems
  - Systems fully Networked within the Complex

- Future Competitive Actions:
  - Special Operations Forces Aviation System Trainers – Enhancements
  - Special Operation Forces Training, Engineering, and Maintenance Services

Questions