

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Accelerating SOF Innovation

Col Melissa Johnson Program Executive Officer FIXED WING



Program Executive Office Fixed Wing (FW)

MOBILITY - INFILTRATE

ISR - FIND



MQ-1C Gray Eagle



EOTACS



MEUAS 3.0



MC-12W



MQ-9 Reaper



MTUAS



JAVAMAN





EC-130J Commando Solo



C-145A Skytruck

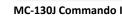


MC-130H Talon II



CV-22 Osprey







MC-130J Commando II











Stand Off Precision Guided Munitions



UNCLASSIFIED

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STRIKE - FINISH



MQ-9 Reaper

AC-130U Spooky





MQ-1C Gray Eagle



AC-130W Stinger II



Acquisition Support Enterprise



PEO-FW CY19 Execution Priorities

• Accelerate capabilities to the field to meet current and future fight

A MURILIPATE C

- Improve overall adaptability and affordability throughout system lifecycle
- Aggressively identify, leverage and implement new technology and new ways of using current technology

Airborne Intel, Surveillance, and Recon (AISR)



Special Applications for Contingencies (SAFC)

- Capability Description: Develops and integrates Group 1-3 UAS technology and payloads
- **On-Going Efforts:** Multiple payload/platform improvements

• Future:

- Reduced size, weight, power
- Reduced operator in the loop
- Standardized architecture and interfaces
- Multiple UAS's working a common mission





RQ-20A Survey / Geo-location







Solar RQ-20A Wings



Silent Echo Payload



Quadcopter

Small UAS (SUAS)/ Expeditionary Organic Tactical Airborne ISR Capability (EOTACS)

- Capability Description: Tactical ISR
- **On-Going Efforts:** Payload modification
- Future:
 - Common GCS
 - Reduced launch/recovery footprint
 - Autonomy



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Group 3/Medium Endurance/Multi-Mission Tactical UAS (G3UAS/MEUAS/MTUAS)

- Capability Description: Provide ISR
- On-Going Efforts:
 - GPS Hardening
 - Reduced deployed footprint
 - Modularity/Commonality
- Future:
 - Beyond Line of Sight (BLOS) / Tactical Common Data Link
 - Signature Reduction
 - Alternate Precision
 Navigation & Timing



RQ-21 Black Jack



MQ-27 Scan Eagle

Medium Altitude Long Endurance Tactical

- Capability Description: Provide tactical ISR
- On-Going Efforts:
 - Common software with USAF
 - Enhanced sensors
 - GPS hardening
- Future:
 - Airborne mission networking
 - Signature reduction
 - Precision guided munitions integration
 - Human Machine Interface (HMI) improvements











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Manned ISR

MC-12W

- **Capability Description:** Provide Tactical Airborne Intelligence, Surveillance, and Reconnaissance (ISR)
- On-Going Efforts:
 - Sensor upgrades
 - Remote SIGINT operation
 - GPS-hardening
- Future:
 - Increased comms bandwidth / data transport
 - Alternate Precision, Navigation, & Timing



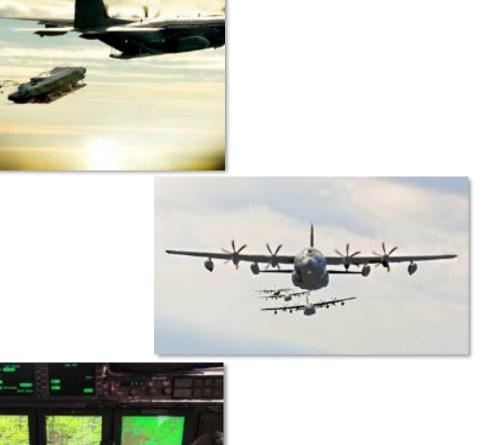


SOF C-130s, CV-22, and Mission Systems



MC-130 Recapitalization

- Capability Description: Modified C-130Js to Perform Low-level Infiltration/Exfiltration, Detect and Deny Radio Frequency (RF) Threats, Airdrop, Resupply and In-Flight Refueling
- On-Going Efforts: RF Countermeasures (RFCM), Terrain Following (TF) Radar and Airborne Mission Networking (AbMN)
- Future:
 - Automated route re-planning
 - Size, weight, and power reduction
 - EW enhancements



C-130 Modifications

- Capability Description: Sustainment Mods to improve reliability and maintainability
- On-Going Efforts: Avionics upgrades, structural improvements





• Future:

- Emergency equipment bins
- Light-weight armor



CV-22B Osprey

- Capability Description: Provides Long Range, High Speed, All-Weather, Infil/Exfil, and Resupply of Teams in Hostile, Denied, and Politically Sensitive Areas in a Single Period of Darkness
- On-Going Efforts:
 - Terrain Following/Terrain Avoidance radar
 - Color Helmet Mounted Display
 - Suite of Integrated RF
 Countermeasures
 (SIRFC) upgrades
- Future: Forward defense weapons system







NSAv and **AvFID**

- Capability Description: Non-Standard Aviation (NSAv) supports worldwide Special Operations Force Tactical/Strategic missions. Aviation Foreign Internal Defense (AvFID) provides Combat Aviation Advisor (CAA) proficiency in preparation for Partner Nation training in Special Operations Force Techniques, Tactics & Procedures
- **On-Going Efforts:** Cockpit, communication and cabin upgrades
- **Future:** Continued avionic obsolescence avoidance and compliance



Integrated Strike Programs



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AC-130W/J

- Capability Description: Modified MC-130J with a Precision Strike Package (PSP) to deliver Close Air Support (CAS) and Air Interdiction (AI) missions
- On-Going Efforts:
 - GPS-Hardened Mission
 Operator Pallet
 - Upgraded Electro Optical/Infrared (EO/IR) Sensor

• Future:

- Improved Defensive Systems
- Improved Crew Situational Awareness
- Infrared (IR) Suppression
- All-Weather Sensors and Radio
 Frequency Countermeasures







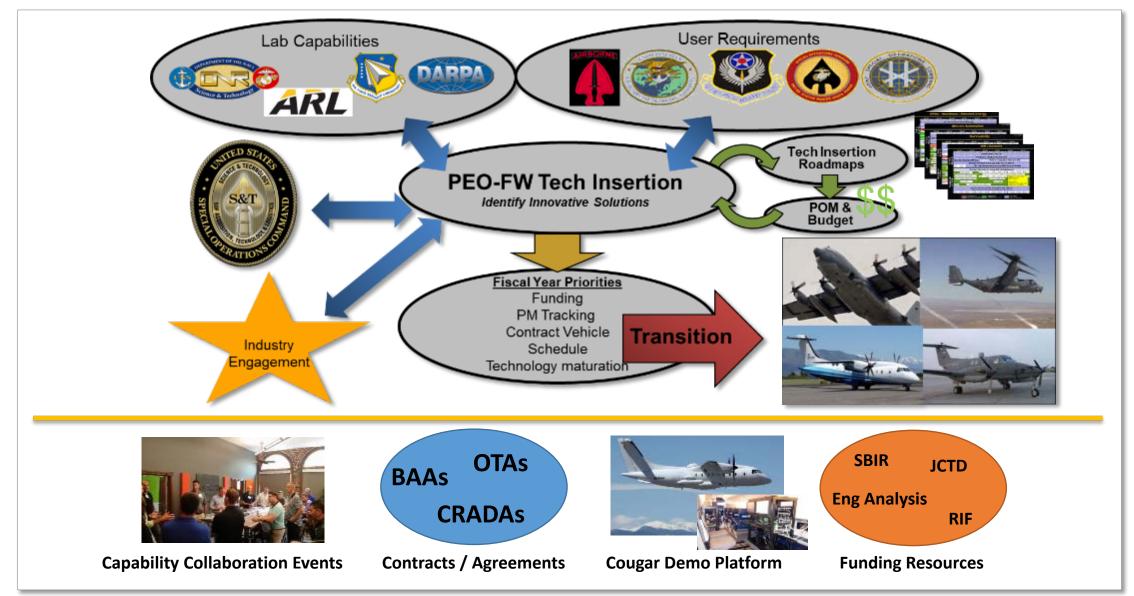
Stand Off Precision Guided Munitions

- Capability Description: Procure and Develop Stand-Off Precision Guided Munitions
- On-Going Efforts:
 - Data link integration
 - Composite warheads
 - Selectable effects
- Future:
 - Guided ammunition
 - Post-launch selectable effects
 - Autonomous/synchronized targeting
 - Next-generation guidance sensors



Common Launch Tube (CLT) – Employs Griffin and SGM

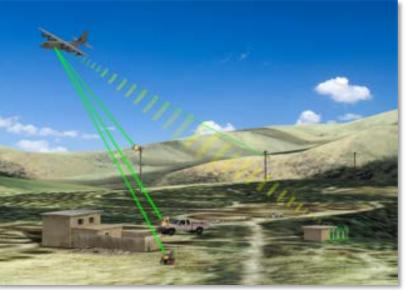
FW Technology Insertion Process and Enablers



AC-130J High Energy Laser

- **Objective:** Demo a Precise Airborne Low Kinetic Weapon System Capable of Ground Based Scalable Effects
- HEL Development Approach:
 - Perform Risk Reduction at low power levels
 - Identify "best of breed" sub-systems
 - Inform DoD on Performance of Airborne Electric
 High Energy Lasers





QUESTIONS?

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