



# SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

**Col Michael Schmidt**  
Program Executive Officer

FIXED WING

FIXED WING



# PEO FIXED WING PORTFOLIO

## ISR - FIND



MQ-1

MQ-9



Puma



MEUAS



JAVAMAN



Liberty



RC-26



U-28



## MOBILITY- INFILTRATE



CV-22



EC-130J



Dornier 328  
C-146



M-28  
C-145A



PC-12



MC-130J  
MC-130P/H

## STRIKE-FINISH



AC-130U  
AC-130J



AC-130H



AC-130W



SOPGM



MUNITIONS AND EMERGING  
TECHNOLOGY  
TRAINING & MISSION PLANNING

FIXED WING



# MISSION STATEMENT

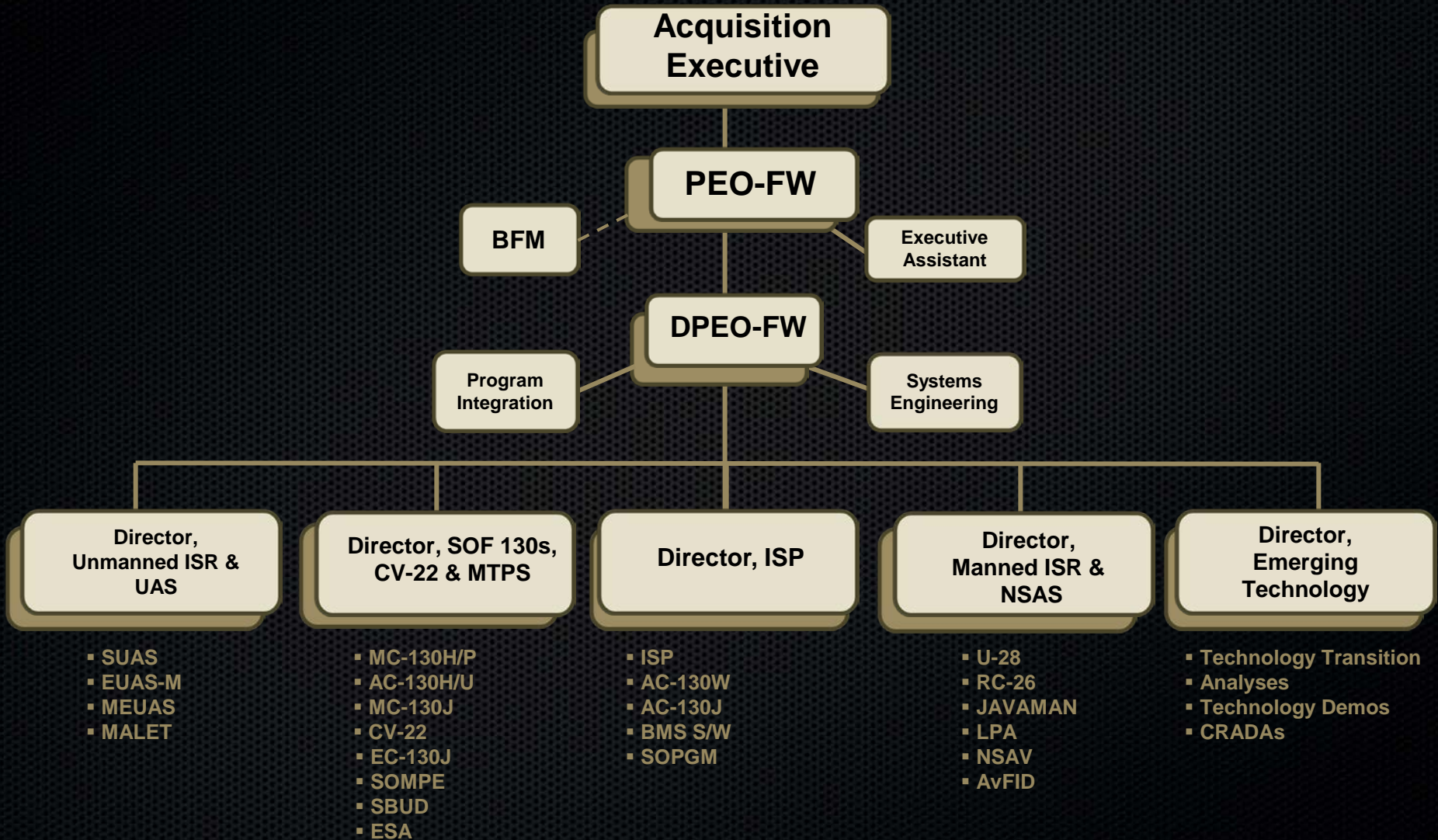
**To deliver Special Operations (SO)-peculiar manned and unmanned fixed wing airpower capabilities to effectively enable Special Operations Forces (SOF).**

**PEO-FW partners with the Warfighter and various development and support organizations to synchronize acquisition activities to field an array of advanced technology sensors, defensive countermeasures, advanced avionics, munitions and gun systems, and mission training systems.**

**The low-density, high-demand nature of the SOF fixed wing fleet is a key driver in the acquisition approaches used to continue to improve and sustain the force. The high operational tempo of these aircraft requires innovative means to incorporate capability and sustainment improvements while ensuring adequate aircraft availability.**



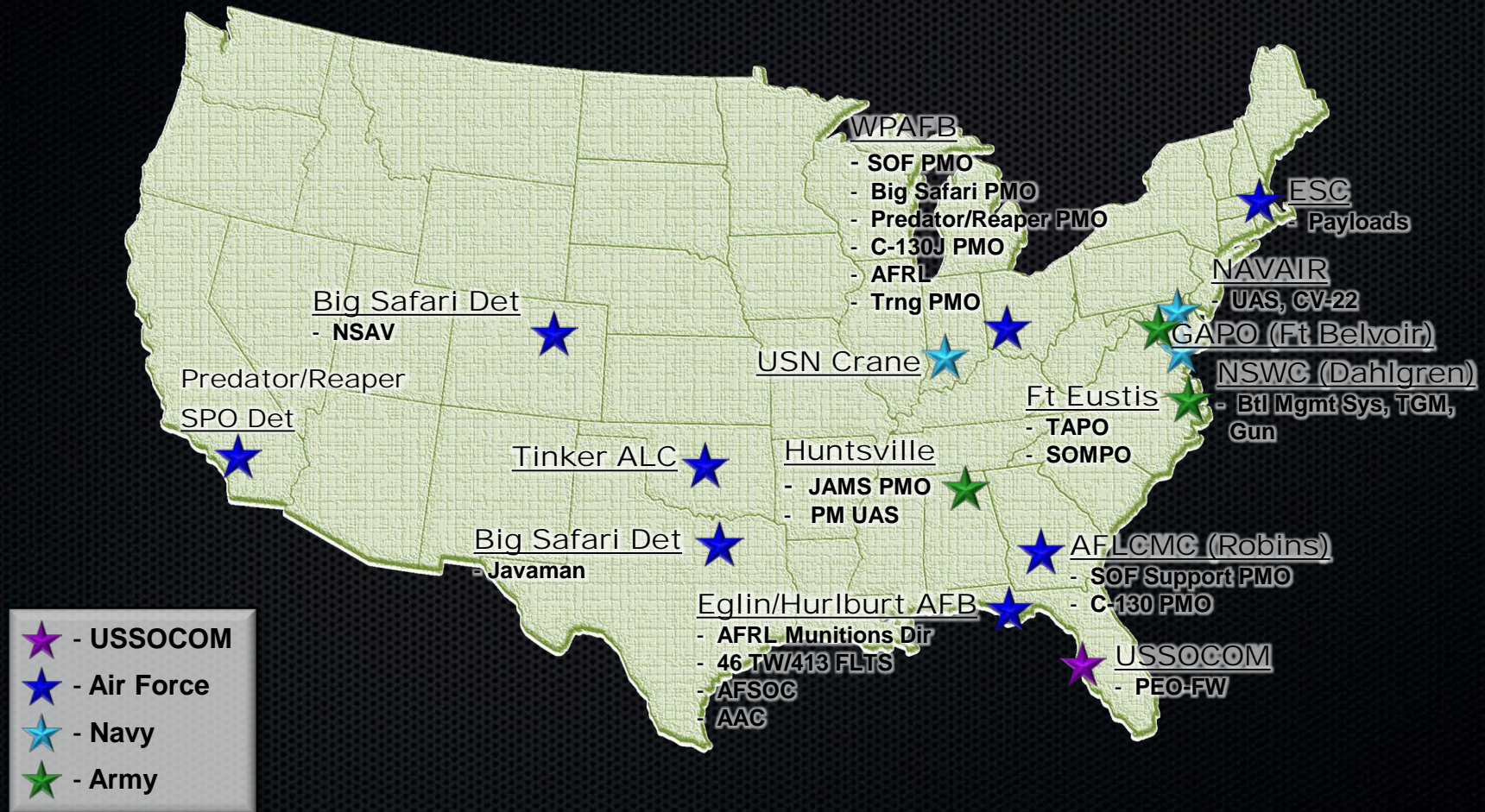
# PEO-FW ORGANIZATION



FIXED WING



# PEO-FW GOVERNMENT ACQUISITION SUPPORT ENTERPRISE



FIXED WING





# SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

**Lt Col Todd Darrah**  
AC-130J Program Manager  
.....  
**INTEGRATED STRIKE  
PROGRAMS**

**FIXED WING**

UNCLASSIFIED



# PRECISION STRIKE PACKAGE

## AC-130J/AC-130W

### FW Priorities

- 37 MC-130Js modified with a Precision Strike Package (PSP) for conversion into AC-130J gunships
- 12 fielded AC-130Ws with PSP installed
- The PSP currently consists of:
  - A single 30mm gun
  - Stand Off Precision Guided Munitions
  - 2 EO/IR Sensors
  - Synthetic Aperture Radar
  - Mission Operator Consoles
  - Fire Control & Battle Management SW
  - A robust comms package



### FY14/15 Planned Efforts

- Integration of 105MM Gun, Crew Situational Awareness Systems & Hellfire missile

FIXED WING

# PRECISION STRIKE PACKAGE

- Provide armed over watch, CAS, and precision strike in support of ground forces



## ACQUISITION STRATEGY

- Modify donor MC-130 aircraft with proven Precision Strike Package

## PERIOD OF PERFORMANCE

- Various

## MILESTONES

- AC-130J: Post MSB, Engineering & Manufacturing Development
- AC-130W: Production & Sustainment

## POINT OF CONTACT

- 813.826.9482 (TILO)

## FUNDING

- FY14: \$148M
- FY15: \$191M

## CURRENT CONTRACT/OEM

- SOFSA/Lockheed Martin, SNC, L3 WesCam, ForceX, Various

FIXED WING





# SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

**Mr. Erich Borgstede**  
Systems Acquisition Manager

STANDOFF PRECISION  
GUIDED MUNITIONS  
(SOPGM)

FIXED WING



# STAND-OFF PRECISION GUIDED MUNITIONS (SOPGM)

## FW Priorities

- Improve Moving Target Capability
- Enhanced Lethal Warheads (CLT Compatible)
- All Weather/All Terrain
- Selectable Effects Munitions
- Affordability-Linked to Service Common

## FY14/15 Planned Efforts

- Hellfire Integration on AC-130W/J
- Field Laser Small Diameter Bomb
- CRADA: Rapid Interaction and Demonstration of PGMs



FIXED WING



# STAND-OFF PRECISION GUIDED MUNITIONS (SOPGM)

- Buy & Integrate Mix of Special Operation Forces (SOF) Unique & Service Common Precision Guided Weapons for Irregular Warfare
- Interfaces:
  - SOF Battle Management System (BMS)
  - Common Launch Tube (CLT) or Service Common



## ACQUISITION STRATEGY

- Commodity Buy
- Integrate Service Common

## PERIOD OF PERFORMANCE

- Various

## MILESTONES

- Hellfire Testing/Fielding FY15
- Laser Small Diameter Bomb July 2014

## POINT OF CONTACT

- 813.826.9482 (TILO)

## FUNDING

- FY14: \$43M
- FY15: \$31M

## CURRENT CONTRACT/OEM

- Raytheon Missile Systems
- Boeing Defense, Space & Security
- Dynetics
- Textron

FIXED WING





# SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

**Lt Col John DiSebastian**  
Program Director

**SOF C-130S, CV-22S,  
AND MISSION  
SYSTEMS**

**FIXED WING**

UNCLASSIFIED



# CV-22 SOF OSPREY

## FW Priorities

- Responsive acquisition (Low Cost Mods)
- Enhance Situational Awareness
- Field improved ramp gun mount
- Field Block 20 upgrades
- Forward Firing Weapon
- Reduce sustainment/operating costs



## FY14/15 Planned Efforts

- Helmet Mounted Display
- Communication enhancements
- Digital map upgrades
- ESA hardware & SW integration
- Ballistic protection

FIXED WING



# CV-22 OSPREY

- Provides long-range, high speed, all weather, infiltration, exfiltration, and resupply of teams in hostile, denied, and politically sensitive areas in a single period of darkness



## ACQUISITION STRATEGY

- Operational systems in sustainment with evolutionary technology insertions

## PERIOD OF PERFORMANCE

- Various

## MILESTONES

- Post Milestone C: Production & sustainment through a joint performance based logistics contract

## POINT OF CONTACT

- 813.826.9482 (TILO)

## FUNDING

- FY14: \$128M
- FY15: \$26M

## CURRENT CONTRACT/OEM

- Multiple contracts
- Bell-Boeing prime (OEM)
- Final aircraft on contract in 2014

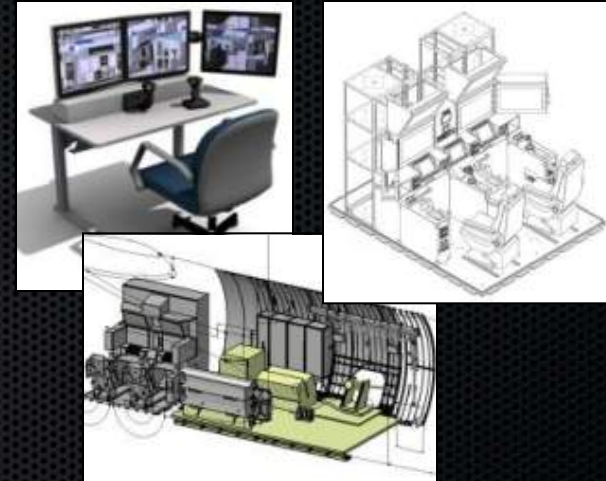
FIXED WING



# TRAINING & MISSION PLANNING SYSTEMS

## FW Priorities

- Enable open architectures
- Maintain simulator concurrency with platforms
- Ruggedized and mobile devices



## FY14/15 Planned Efforts

- AC-130J training system procurement
- Simulator block updates
- SOMPE SW application development
- SOMPE hardware development

FIXED WING



# TRAINING & MISSION PLANNING SYSTEMS

- Provide realistic combat simulation to SOF forces via aircrew training devices
- Enables mission planning and execution for SOF forces across all Components



## ACQUISITION STRATEGY

- Existing, competed contracts for minor acquisitions and CLS
- Limited/full & open competition contracts for major acquisitions

## PERIOD OF PERFORMANCE

- Various

## MILESTONES

- MS C: AC-130J Training System
- Post-MS C: SBUD
- Post-MS C: SOMPE

## POINT OF CONTACT

- 813.826.9482 (TILO)

## FUNDING

- FY14: \$30M
- FY15: \$26M

## CURRENT CONTRACT/OEM

- AC-130J SIM: Lockheed Martin
- SBUD: Lockheed Martin, Sierra Nevada Corp, Opinicus, FSI, Various
- SOMPE: NTS, SAIC, Wyle, Nova, Various

FIXED WING



# SOF C-130s

## FW Priorities

- Responsive acquisition (Low Cost Mods)
- Achieve Commando II capabilities
- Create integrated open architectures
- Improve aircraft survivability
- Enhanced Situational Awareness



## FY14/15 Planned Efforts

- Defensive systems (RFCM)
- ESA hardware & SW integration
- Pod-based C4ISR capabilities
- Roll-on / Roll-off capabilities
- Digital Solo for EC-130J
- Special Mission Processor
- Terrain Following Radar

FIXED WING



# SOF C-130s

- Provide low-level infil/exfil and resupply of SOF teams in hostile or denied areas
- Provide in-flight refueling of SOF assets
- Provide armed over watch, CAS, and precision strike in support of ground forces
- Provide airborne MISO support



## ACQUISITION STRATEGY

- Operational System in Sustainment with Evolutionary Technology Insertions
- New aircraft to recap legacy fleet

## PERIOD OF PERFORMANCE

- Various

## MILESTONES

- Post Milestone C: Legacy Aircraft
- Milestone B: MC-130J Inc 3 & MCTF

## POINT OF CONTACT

- 813.826.9482 (TILO)

## FUNDING

- FY14: \$115M
- FY15: \$124M

## CURRENT CONTRACT/OEM

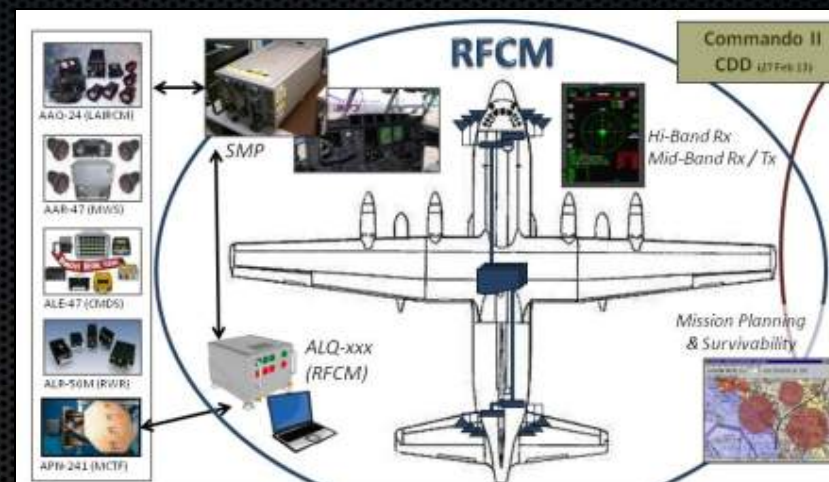
- Lockheed Martin (C-130J), Scientific Research Corporation & Northrup Grumman (MCTF Radar)
- Sargent Fletcher (Variable Speed Drouge), Various

FIXED WING



# AC/MC-130J RF COUNTERMEASURES

- Improves aircraft survivability in hostile or denied territory
- Allows aircrew to detect, identify, locate and avoid RF threats
- Provides ability to deny, degrade, and disrupt threats with effective countermeasures



## ACQUISITION STRATEGY

- Full and Open Competition
- CPIF Development Program
- FPIF Production Options

## PERIOD OF PERFORMANCE

- EMD: 3QFY15 - FY19
- LRIP: FY17 – FY20
- FRP: FY19+

## MILESTONES

- RFP: April 2014 (Draft)  
May 2014 (Final)
- Milestone B: 3Q FY15

## POINT OF CONTACT

- 813.826.9482 (TILO)

## FUNDING

- Included in C-130

## CURRENT CONTRACT/OEM

- TBD

FIXED WING





# SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Mr. Tim McKelvey  
Program Director

EMERGING  
TECHNOLOGY

FIXED WING



# EMERGING TECHNOLOGY

- Areas of Interest: Modular Platforms and Payloads
  - Mobility
    - Countermeasures, A2AD, Signature Management, Operator Workload, Modular Design
  - ISR
    - Endurance/Range, Multi-Int Sensors and Data Fusion, Enhanced Resolution, Flexible Mission Suites
  - Strike
    - Moving Targets, Enhanced Lethality, All WX/Terrain, Selectable Effects, Affordability



FIXED WING



# EMERGING TECHNOLOGY

- Identify and Exploit Emerging Technology Applicable to Fixed Wing Aircraft
  - CRADAs
  - TILO
  - Studies
  - Demos



## ACQUISITION STRATEGY

- Robust set of contract vehicles for responsive FW integration

## PERIOD OF PERFORMANCE

- Various

## MILESTONES

- Various

## POINT OF CONTACT

- 813.826.9482 (TILO)

## FUNDING

- FY 14: \$876K
- FY 15: \$1.5M

## CURRENT CONTRACT/OEM

- Multiple

FIXED WING





# SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Mr. John Coglianesi

Program Director

UNMANNED AIRCRAFT  
SYSTEMS AND  
UNMANNED ISR

FIXED WING

UNCLASSIFIED



# UNMANNED INTELLIGENCE, SURVEILLANCE, & RECONNAISSANCE SYSTEMS

## FW Priorities

- Improve Endurance/Signature/ Electrical Power
- Enhance Sensor Detection/Resolution
- Increase Training Simulation Realism/Availability
- Create Plug-N-Play Interface Capability
- Expand Control/Return Link Bandwidth
- Expeditionary/Rapid Transport
- Reduce Size/Weight/Power



## FY14/FY15 Planned Efforts

- Extended Range
- High Def Full Motion Video
- Payload SWAP Reduction
- Improved Data Link Integration
- In-Flight Payload Switching
- Weapons Integration

FIXED WING



# UNMANNED INTELLIGENCE, SURVEILLANCE, & RECONNAISSANCE SYSTEMS

- Provide Rapidly Deployable Multi-Intelligence ISR Capability in denied environments
- Provide persistent Intelligence, Surveillance, Reconnaissance and Targeting (ISR-T)



## ACQUISITION STRATEGY

- Operational Systems in Sustainment with Evolutionary Technology Insertions
- Contractor Owned & Operated Services

## PERIOD OF PERFORMANCE

- Various

## MILESTONES

- Post MS C, Tech Insertion Invest/Sustain

## POINT OF CONTACT

- 813.826.9482 (TILO)

## FUNDING

- FY14: \$127M
- FY15: \$ 73M

## CURRENT CONTRACT/OEM

- AeroVironment (Puma AE)
- Boeing/Insitu (Scan Eagle)
- General Atomics (MQ-1/9)
- Raytheon (MTS-A/B)
- Northrup Grumman (Payloads)

FIXED WING





# SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Lt Col Lou Ruscetta

Program Director

MANNED ISR AND  
NON-STANDARD  
AVIATION SYSTEMS

FIXED WING

UNCLASSIFIED



# MANNED ISR AND NON-STANDARD AVIATION SYSTEMS

Small category commercial aircraft modified to support SOF ISR requirements and Short Takeoff and Landing (STOL) medium category, Intra-Theater airlift in support of TSOC mobility requirements.

## FW Priorities:

- Field C-146A's with NSAV mods
  - The NSAV mods consist of: Communications package, CASEVAC, NVG compatibility, and troop and cargo capable interiors
- Execute approved Manned ISR Way Ahead
  - Modify aircraft as mission dictates



## FY14/15 Planned Efforts:

- Start MC-12 SOF Mods
- Procure and mod two C-146 aircraft

FIXED WING



# MANNED ISR AND NON-STANDARD AVIATION SYSTEMS

- Provide a manned fixed wing capability for tactical ISR in support of Theater Special Operations Forces.
- Provide dedicated mobility to Theater Special Operations Forces in austere and remote locations.



## ACQUISITION STRATEGY

- Procure commercial aircraft and modify to meet SOF mobility and ISR requirements

## PERIOD OF PERFORMANCE

- Various

## MILESTONES

- ISR: Transition from U-28 to MC-12 aircraft
- NSAV: Production, Deployment, Operations, & Sustainment

## POINT OF CONTACT

- 813.826.9482 (TILO)

## PROC AND O&M FUNDING

- FY14: \$6M                      FY14: \$234M
- FY15: \$70M                    FY15: \$86M

## CURRENT CONTRACT/OEM

- L3 Com
- Sierra Nevada Corp

FIXED WING