# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Ms. Lisa Sanders,** Director, Science & Technology

## SCIENCE & TECHNOLOGY OVERVIEW

SOF AT&L



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# SOF AT&L-ST Vision

## Innovate for Future Threats

**Relentlessly Discover, Develop, Adapt and Employ Next Generation Technologies that Provide SOF an Overwhelming Competitive Advantage**

## Modernization of SOF – Prepare Today to Win Tomorrow



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# Science & Technology (S&T) Budget

## Applied Research (BA2) & Advanced Technology Development (BA3)

- **BA2**: Studies, Early Laboratory Hardware, Software Development Models, Concept Exploration. Technology Readiness Level (TRL) 3-5
- **BA3**: Operational Prototypes, Advanced Technology Demonstrations, Technical Experimentation, Technology Insertions. TRL 5-7

### ACQUISITION STRATEGY

- Various (Competition, IDIQ, CRADA, Prize Challenges, etc.)
- External Leveraging (OGAs, Services, Laboratories)

### PERIOD OF PERFORMANCE

- Project Dependent
- Emphasizing Tech Discovery, PEO TIRs needs, and game-changing technology development

### MILESTONES

- Project Dependent

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

### FUNDING

- FY21 BA2/BA3: $49.5M/$96.9M = $146.4M
- FY22 BA2/BA3: $44.8M/$93.7M = $138.5M

### CURRENT CONTRACT/OEM

- Various


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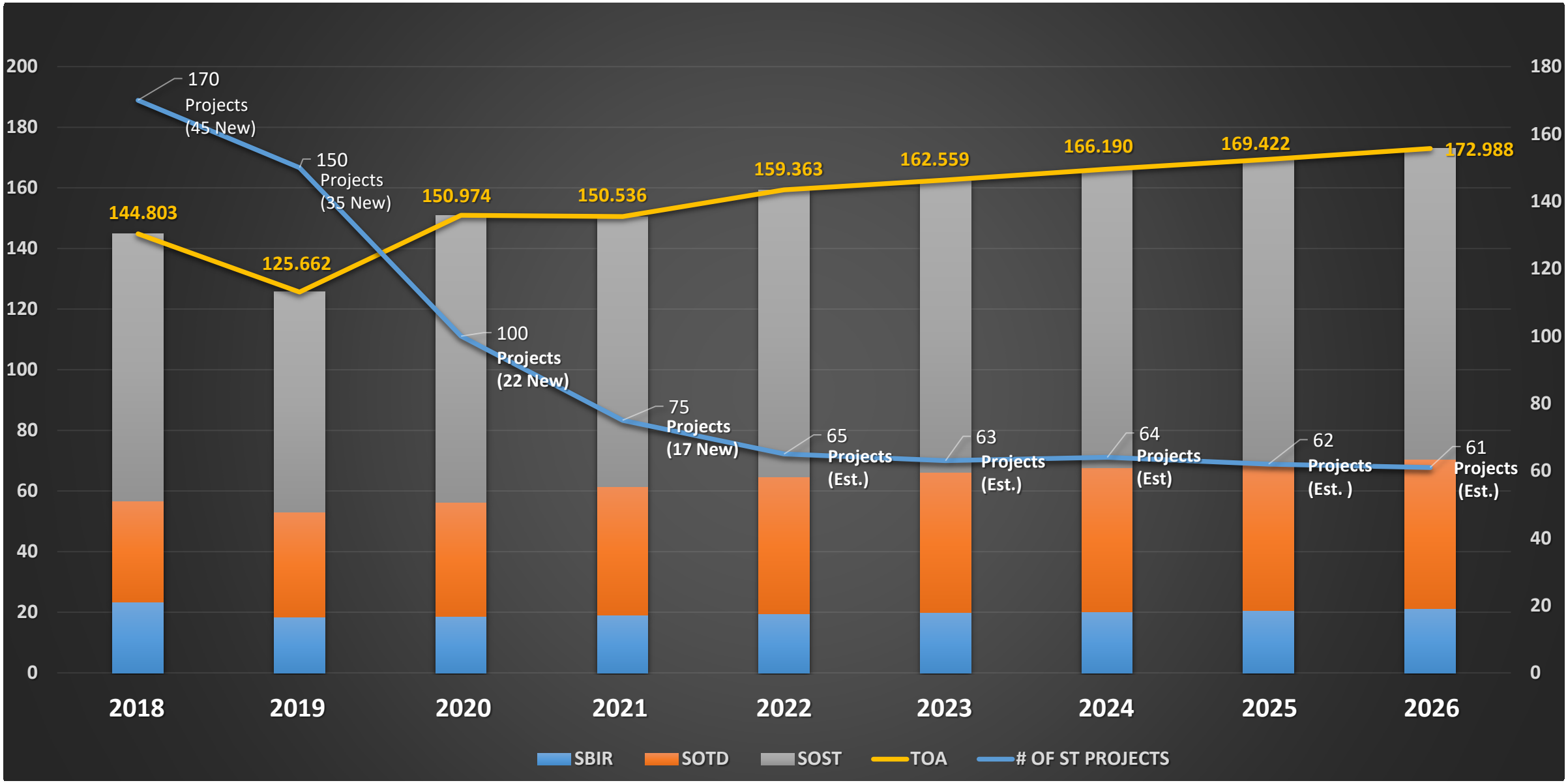
# S&T Projects vs Funding



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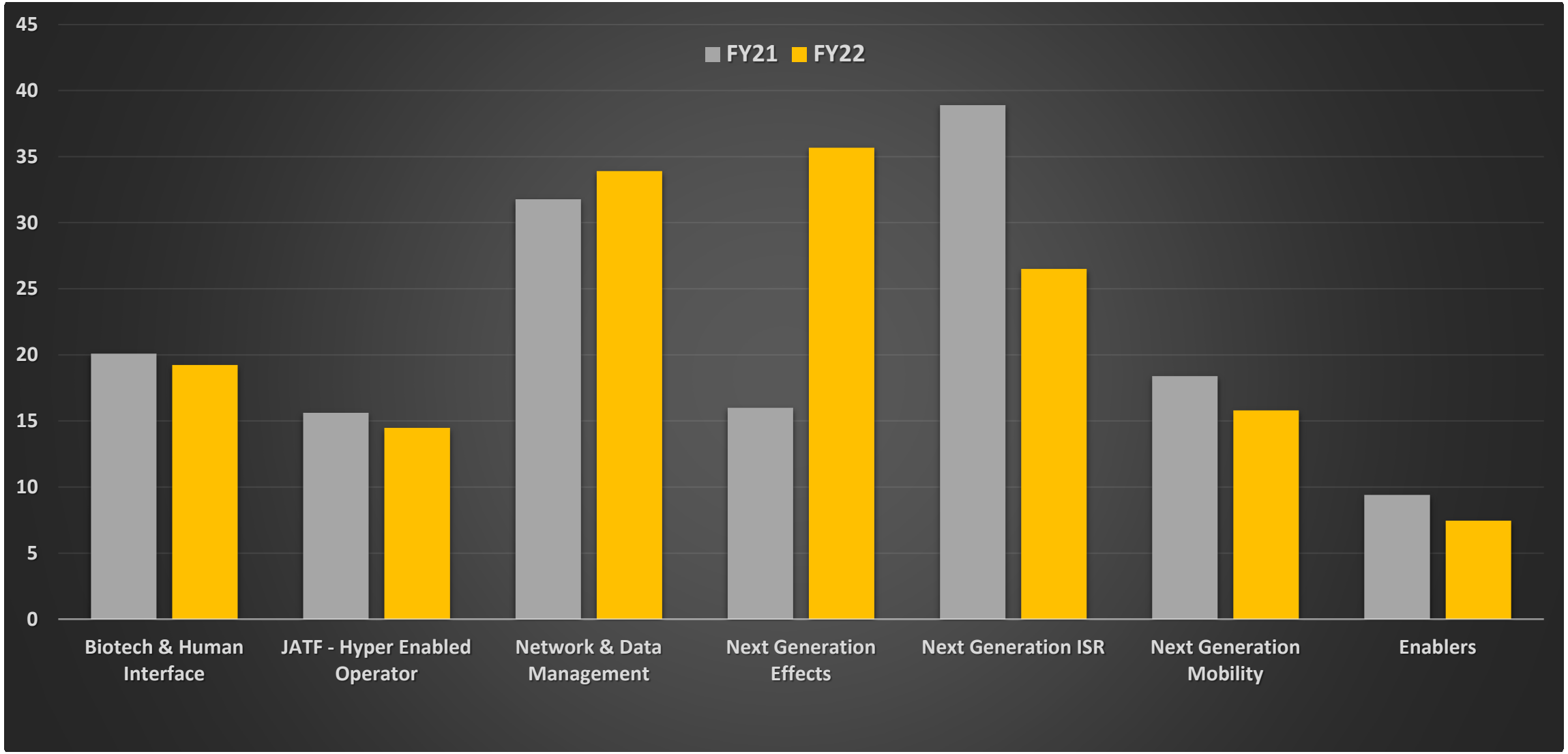
# S&T Project Funding FY21/FY22 By Focus Area



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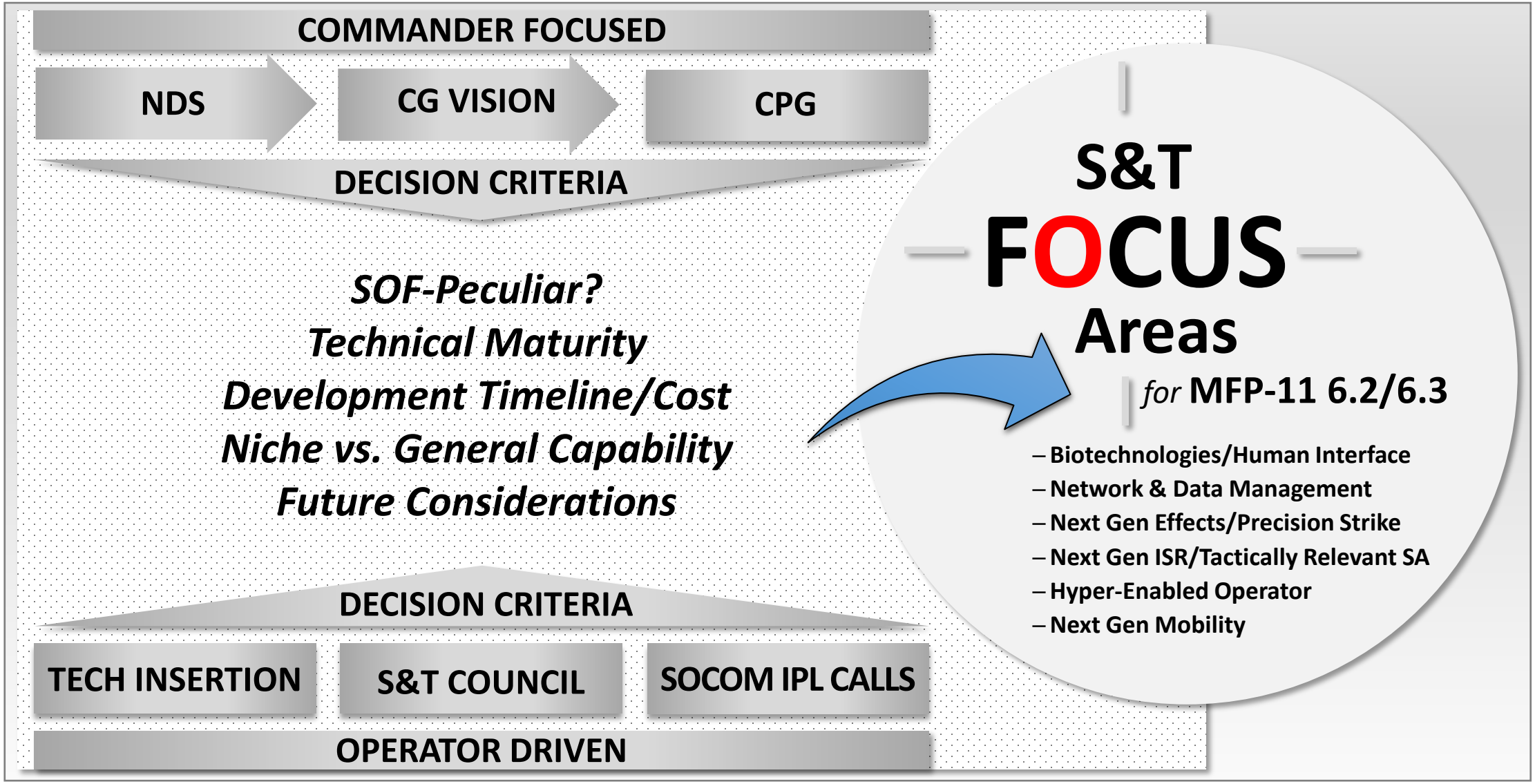
# SOF Priority Considerations





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# S&T Integrated Priority List (STIPL)

- Special Communications: Resilient, survivable, federated networks and information ecosystems critical for successful execution of SOF missions
- Tailorable Lethality: Significant increases in precision effects and combat lethality to deliver small unit dominance
- Electronic Warfare (EW): Offensive EW and Cyber effects that can enable or execute collaborative non-kinetic/kinetic effects
- Human Performance Optimization: Novel means to monitor in real time, while safely improving/increasing the SOF operator's physical and cognitive abilities
- Data Enabled SOF: Advances in artificial intelligence/machine learning (AI/ML) and edge computing techniques to enable data accessibility, advanced processing and analysis, and dissemination in contested/disconnected operating environments. Advance SOF effectiveness through flexible autonomy, reduced operator cognitive loading, and timely actionable insight to tactical decision making


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- Supporting decisionmakers in their investment decisions
- Command's investigator of High-Risk, Asymmetric and Disruptive Concepts, Capabilities and Technology in the Force Design (5-15 year) window
- Chartered for 3 Innovation Foundry events per year, as well as their follow-on events
- Enabler-for-S&T-Enablers, as well as CFAs


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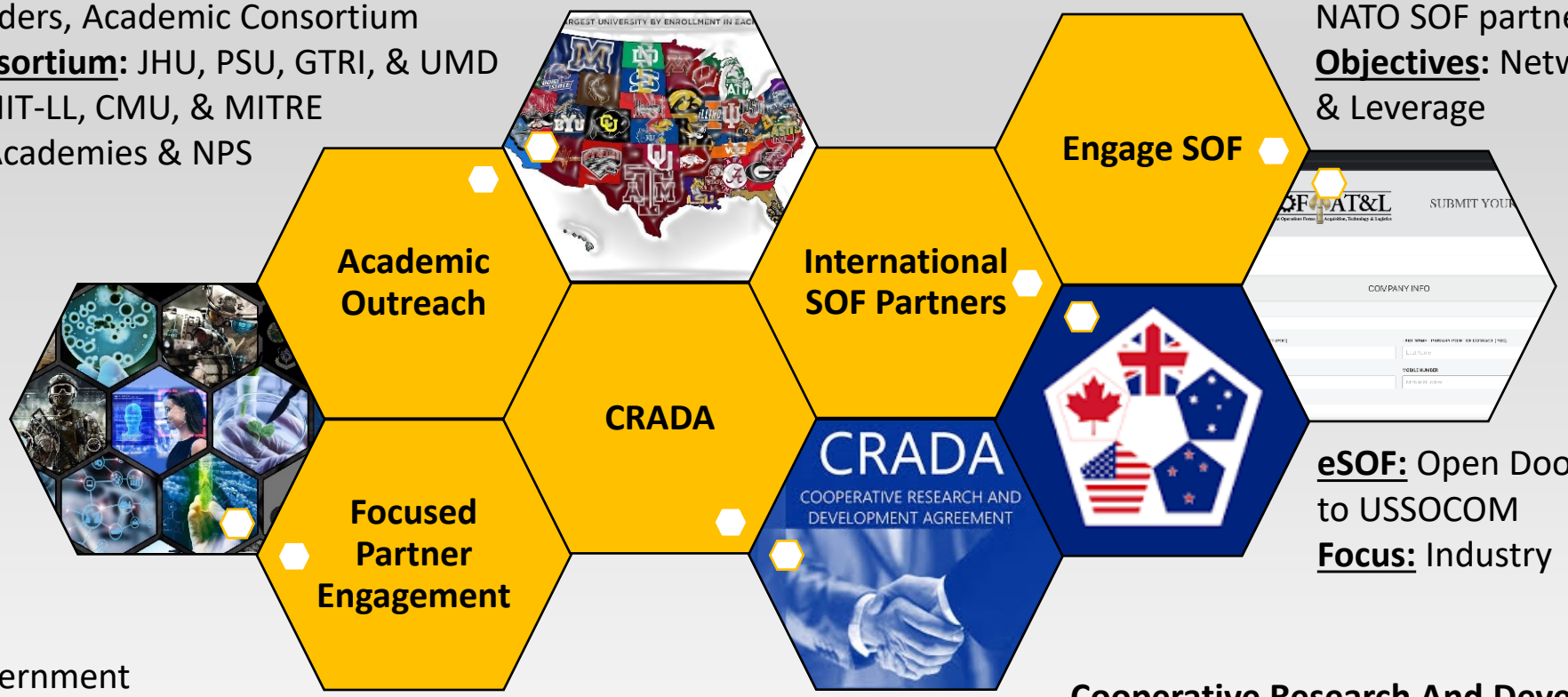
# Strategic Engagement Overview

**Focus:** Academia, UARCs, & FFRDCs
**Academic IDIQ:** USF (5 year / $85M ceiling), 15 Task Orders, Academic Consortium
**UARC Consortium:** JHU, PSU, GTRI, & UMD
**FFRDCs:** MIT-LL, CMU, & MITRE
**Military:** Academies & NPS




**International SOF Partners:** Engage with FVEY and NATO SOF partners
**Objectives:** Network & Leverage

**eSOF:** Open Door to USSOCOM
**Focus:** Industry

**Focus:** Government
**Relationships:** DoD Labs, DARPA, OSD orgs, DoE Labs, Intelligence Community
**Objectives:** Network, Leverage, & Influence

**Cooperative Research And Development Agreements (CRADA):** 304 Active
**Objectives:** Leverage Collaborators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# Technical Experimentation (TE)

- **TE 21-2, 21-25 June 2021 at Muscatatuck, IN**
  - Experimentation Focus: Next Generation ISR/Tactically Relevant SA, Biotechnologies/Human Interface
- **TE 21-3, 26-30 July 2021 at Muscatatuck, IN**
  - Experimentation Focus: Sense Through The Wall (STTW)
- **TE 22-1, 15-19 November 2021 at Key West, FL or Coronado, CA (TBD)**
  - Experimentation Focus: Combat Diver/ Surface Systems

- **Public Link:** https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx
- **Linked in© Group: SOCOM Technical Experimentation**



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# Biotechnologies and Human Interface Capability Functional Area (CFA)

## BIOTECHNOLOGIES / HUMAN INTERFACE

Freeze Dried Plasma (FDP)

## HUMAN INTERFACE

- Focal Array Lens
- Integration efforts with Army's IVAS Heads Up Display
- In-Ear EEG

## HUMAN PERFORMANCE

- STRONGER
- H2ERO
- Circadian Acclimatization of Performance
- Human Performance Small Molecule
- HP efforts Suicide Prevention

## BIOMEDICAL

- Biomedical Research Efforts
- FSaR
- Canine efforts
- Lyophilized Cryoprecipitate
- ReBLAST
- Brain Health

**~$20M and 33 efforts**

**Team Lead**
Doug Simpson
douglas.simpson@socom.mil

**No new FY21 efforts out-weighed continuing the disruptive efforts**



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# Joint Acquisition Task Force (JATF) – Hyper Enabled Operator (HEO) CFA

**JOINT ACQUISITION TASK FORCE HEO**

**Enhance Operator Cognition – Information Dominance at the Edge**

**Advanced Analytics at the Edge – Operator Worn Compute**

- Make more informed decisions, faster.

**Automated Analytics**

- Build and share a common operating picture

**Voice to Voice Language Translation**

- Make more informed decisions, faster.

**Beyond Line of Sight Communications**

- High bandwidth comms in a SATCOM-denied environment

**~$16M**
**Numerous efforts**

**Team Lead**
COL Ryan Barnes
ryan.barnes@socom.mil

**Proof of Concept** → **Prototyping as a Service** → **Tech Sprints & Engineering Support**



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# Network and Data Management CFA

## NETWORK & DATA MANAGEMENT

**Advanced Machine Learning and Tactical Edge Computing**

AI/ML

Edge Computing

NVIDIA

## Alt-PNT

- DANAUS
- Passive Alt Navigation
- Quantum Gyroscope
- Real-Time 3D Mapping
- Augmented Reality TAK
- 3D Visualization at the Tactical Edge
- GPS-Denied Global Navigation System

## Comms in all Environments

- Superconducting Quantum Interference Device
- 60Ghz WPAN Intra Team Comms
- JHU Cold Comms
- Hyper Cognitive Communication
- Cognitive Router
- Lean Services Architecture
- PDW Anti-Jam Radio
- Jam Resistant Wireless Comms

## Cyber

- Data Driven Intelligence
- Advanced Machine Learning for RF Spectrum
- Edge-Based Emotion Recognition
- Secure Avionics
- Computational Diversity
- General Neural Network
- Distant Whisper

**~$32M and 23 efforts**

**Team Lead**
Peter Depa
peter.depa@socom.mil

- NDM CFA portfolio consists of a blend of continuing efforts and new-start efforts, all focused on transformative capability development
- Multiple projects include AI/ML and Edge Computing technology development


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# Next Generation Effects CFA

**NEXT GENERATION EFFECTS**

**Offensive Electronic Warfare Capability Development**

## Unmanned Systems Defeat

- Detection, Tracking & Disabling SUAS
- Joint Intermediate Force Effects projects

## Non-Kinetic Attack

- Covert Signal Injection Using Electron accelerators
- SOF Target Electronic Attack & Vulnerability Analysis
- Air Launched Drone Swarm Payloads

## Electronic Warfare

- Offensive Precision HPM Attack
- Particle Beams for Counter-Power Grid Applications
- Counter GPS Jamming

**~$16M and 6 efforts**

**Team Lead**
Kanesha Wimberly
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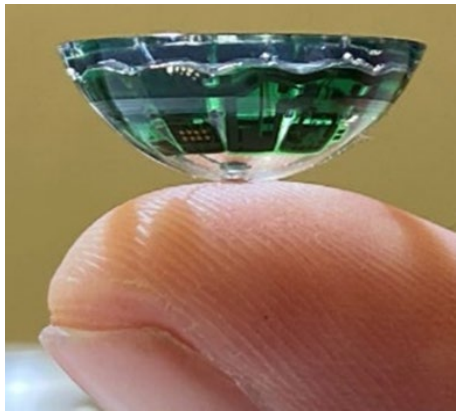
# Next Gen ISR CFA

**ISR / TACTICALLY RELEVANT SITUATIONAL AWARENESS**



Eye Mounted Display

**SITUATIONAL AWARENESS**

- Beholder
- Eye Mounted Display
- LPD Wireless Comms
- Differential Segmented Aperture

**INTELLIGENT SENSOR**

- Autonomy Enabled Sensor
- Unattended Sensor
- NANTENDO

**SPACE**

- Modular Integrated Payloads
- Prometheus
- TENCAP (CIP-A, OASIS)

**OPTICS**

- 5Km TVS
- Folded Optics
- Sensor Agnostic Miniature

**~$39M**
**28 efforts**

**Team Lead**
Dan Granados
daniel.granados
@socom.mil

- **NGISR portfolio encompasses tactically relevant situational awareness in all domains; focusing project efforts; transitioning incremental projects to programs of record**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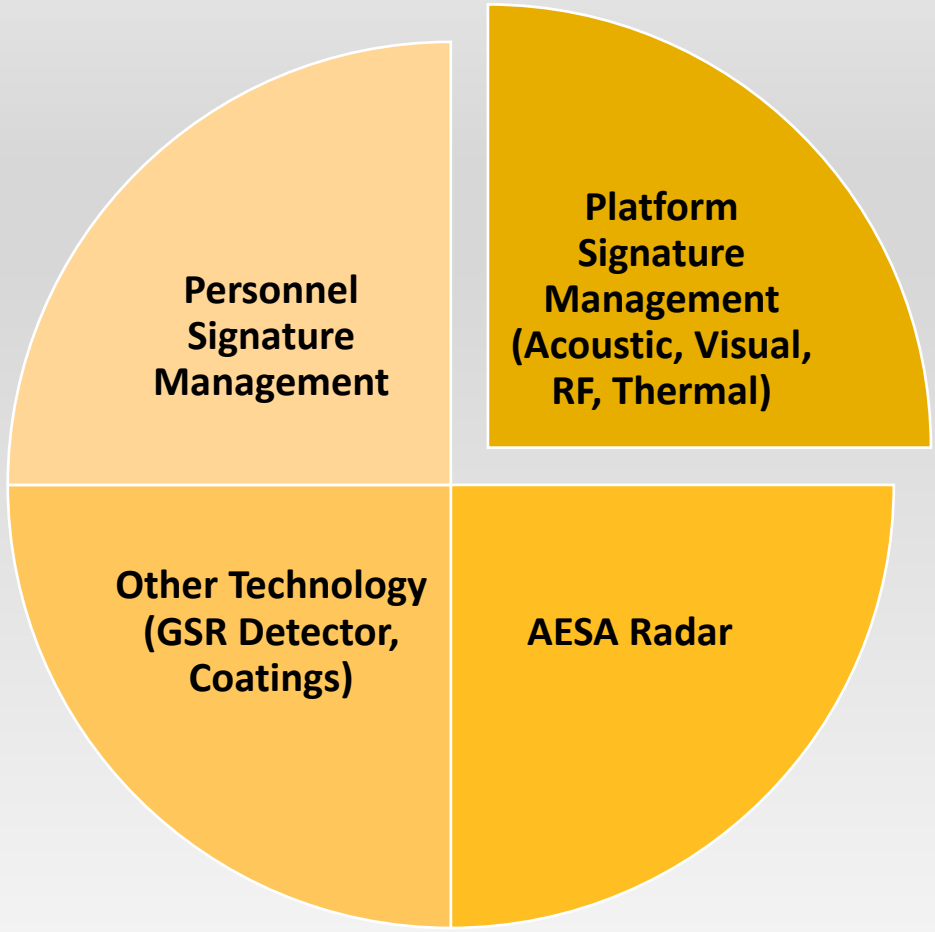
# Next Generation Mobility CFA

**NEXT GENERATION MOBILITY**

Signature Management




**~$18M and 12 efforts**

**Team Lead**
Conrad Lovell
conrad.lovell.civ@socom.mil

- Emphasize Focus on Platform Signature Management
- NGM Supports Air, Ground, Maritime Surface/Subsurface Technologies, and Sensor Defeat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# S&T Engagement Tools

| S&T ACTIVITY | OPPORTUNITY | ENGAGEMENT |
|---|---|---|
| **SOF Futures Innovation Foundry Events**<br>POC: Mr. Brian Sisco<br>813-826-2249, brian.sisco@socom.mil | • S&T has developed an S&T Futures Process<br>• S&T conducts "Innovation Foundry" events to enable SOF's ability to accomplish their missions 10-15 years in the future | • S&T plans to conduct 2-3 SOF Futures Innovation Foundry Events per Fiscal Year<br>• Innovation Foundry events will provide opportunities for attending and injecting disruptive technology solutions for SOF |
| **Small Business Innovation Research (SBIR)/ Small Business Technology Transfer (STTR)**<br>POC: Mr. Mina Khalil<br>813-826-7003, mina.khalil@socom.mil | • S&T manages SOCOM's SBIR/STTR programs<br>• Stimulates innovation for small businesses<br>• 3 Phases, Phase I is a Study ($150K), Phase II Prototype ($1.5M), Phase III Commercialization | • https://www.socom.mil/SOF-ATL/Pages/sbir.aspx<br>• USSOCOM participates in three SBIR/STTR Topics Call per year (April, August, and December timeframes) |
| **Technical Experimentation (TE) Events**<br>POC: Mr. Dan Bernard<br>813-826-9917, dan.bernard@socom.mil | • Conducts 3-4 US-based events every fiscal year each with different theme(s)<br>• Industry opportunity to engage and demonstrate technology/concepts and get direct feedback from SOF Operators/Acquisition Professionals | • Normally 1 TE Event/QTR, TE Request for Information (RFI) posted on Beta.SAM.gov for each TE Event<br>• Go to https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx |
| **Cooperative Research & Development Agreements (CRADA)**<br>POC: Mr. Benjamin Chitty<br>813-826-5162, discovery@socom.mil | • SOCOM employs Overarching and Specific (Traditional) CRADAs<br>• Legal agreement to provide general and specific access to USSOCOM needs | • Allows for the formulation and execution of Individual Work Plans (IWP) between the Collaborator – PEO/Directorate within SOF AT&L |
| **Broad Agency Announcements (BAA)**<br>POC: Mr. Peter Greany<br>813-826-7423, peter.greany@socom.mil | • SOCOM S&T Directorate/PEOs develop and post BAAs to SAM.gov that provide Areas of Interest (AOI) to Industry and other External Organizations. | • S&T has posted a 5-year BAA that will be periodically updated with Areas of Interest (AOI)<br>• Biomedical BAA currently posted through US Army |
| **Tech Scouting Tool**<br>POC: Mr. Barton Graham<br>813-826-6903, barton.graham@socom.mil | • Web-based platform that enables anyone to quickly describe technology and upload supporting documentation to a secure, shared, searchable, central database | • Tech Scouting Tool supports evaluation/ assessment/scoring of submitted technologies, and sharing of results<br>• Contact POC for instructions to register |
| **Engage SOF (eSOF)**<br>POC: Mrs. Shelvin Watts<br>813-826-1269, eSOF@socom.mil | • Conduit for the SOF AT&L Enterprise<br>• Matches your company's product/service/capability to the appropriate personnel within the command and schedules discussions or demos | • Go to https://www.socom.mil/SOF-ATL/Pages/eSOF-before-you-submit.aspx for information and link to USSOCOM Areas of Interest and for the eSOF Submitting Your Idea Form |


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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Bill Innes,** Deputy Director for Acquisition

## INTRODUCTION TO USSOCOM & SOF AT&L

SOF AT&L



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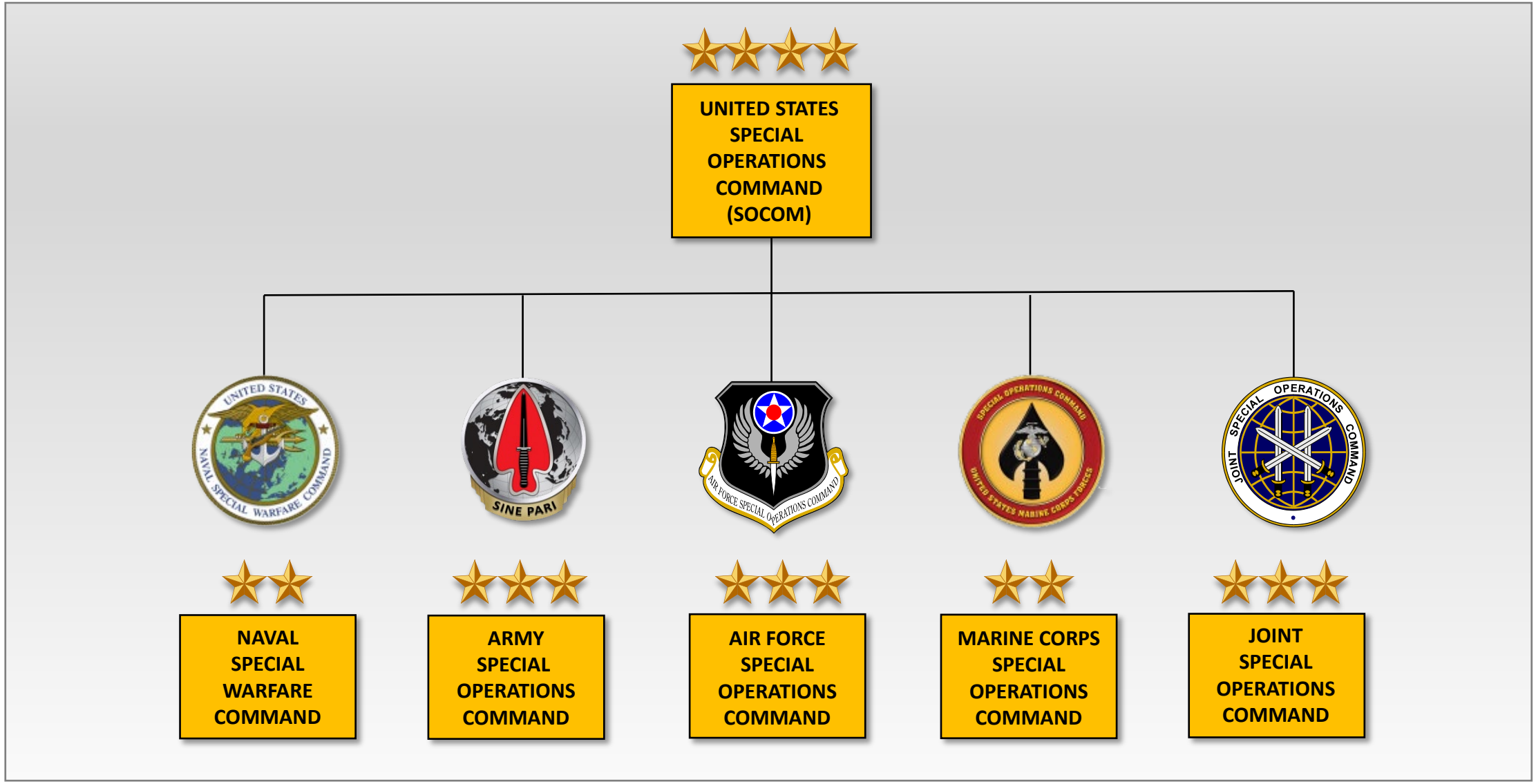
# Agenda

- USSOCOM Overview
- Special Operations Forces Acquisition, Technology & Logistics (SOF AT&L) Overview
- Technology Focus Areas
- Doing Business w/USSOCOM

# USSOCOM's Organizational Structure



# Theater SOF Locations

# 76,594 SOF

| 4,743 | 57 | 24/7 |
|---|---|---|
| DEPLOYED | LOCATIONS | |

**"Our Special Operations Forces remain engaged globally, ensuring violent extremists have no respite, while setting advantageous conditions across all domains to compete with adversaries. We are ready to meet today's requirements, while adapting to address tomorrow's challenges."**

***GEN Richard Clarke, Commander, US Special Operations Command***

# Authorities & Responsibilities

# SOF AT&L

## MISSION

Provide rapid & focused acquisition, technology, & logistics to Special Operations Forces.

## VISION

**Trusted Experts**

## PRINCIPLES

Deliver capability to user expeditiously; exploit proven techniques & methods; keep Warfighters involved throughout process; take risk & manage it!

# Wide Array of Programs

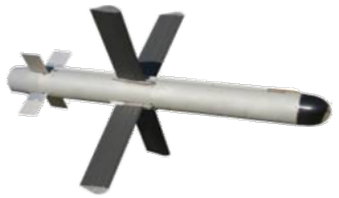
MILESTONE C

MILESTONE B

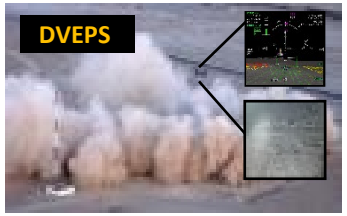
## GROUND
84 Programs/Projects

ASR

Organic Precision Strike



## AIR
67 Programs/Projects



## MARITIME
24 Programs/Projects

## C4I
105 Programs/Projects

## SR
45 Programs/Projects

Intelligence Collection Systems

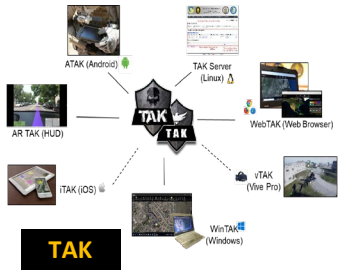
Identity Operations

Rn (Release number)

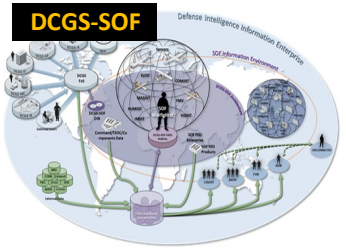
MVCR (Minimum Viable Capability Release)

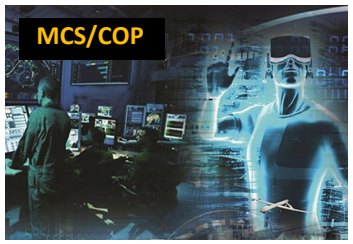
MVP (Minimum Viable Product)

## DATA/SOFTWARE
8 Programs/Projects




TAK



# Special Operations Forces
# Acquisition, Technology, & Logistics Organization

**COMPTROLLER**
Tom Coburn

**PROCUREMENT**
Col Eric Obergfell

Monday 1515-1615 / Tuesday 1700-1800

**SCIENCE & TECHNOLOGY**
Ms. Lisa Sanders

Tuesday 0910-1010

**ACQUISITION LOGISTICS**
Joe Carlson

**ACQUISITION AGILITY**
Spencer Baker

Monday 1700-1800

**PEO C4**
Command, Control, Communications, & Computers
Deb Woods

Tuesday 1300-1400

**PEO FIXED WING**
Col Ken Kuebler

Wednesday 1145-1245

**PEO MARITIME**
CAPT Randy Slaff

Wednesday 1415-1515

**PEO ROTARY WING**
Mr. Geoff Downer

Wednesday 0900-1000

**PEO SOF WARRIOR**
COL Joel Babbitt

Wednesday 1540-1640

**PEO SOFSA**
Special Operations Forces Support Activity
COL Joseph Blanton

Thursday 0900-1000

**PEO SR**
Special Reconnaissance
David Breede

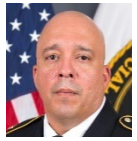
Monday 1345-1445

**PEO SERVICES**
Ted Koufas

Tuesday 1545-1645

**PEO SDA**
SOF Digital Applications
COL Paul Weizer

Tuesday 1030-1130



**SENIOR ENLISTED LEADER**
SGM Jorge Otero

**DEPUTY DIRECTOR FOR ACQUISITION**
Mr. Bill Innes

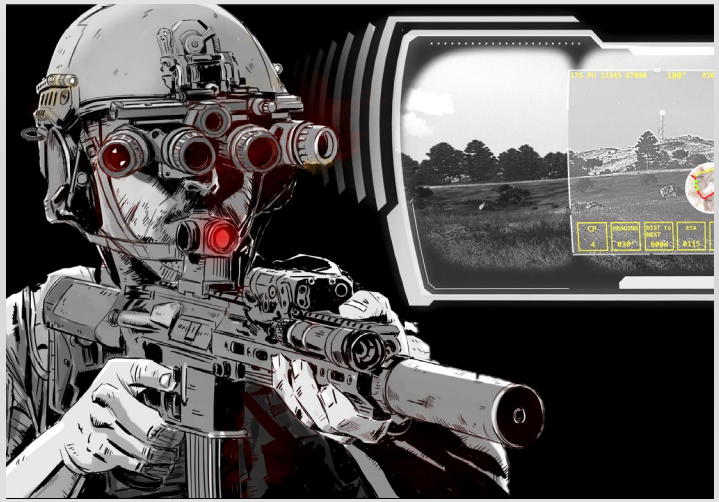
Monday 1235-1335

**MILITARY DEPUTY**
COL Tony Wizner

**ACQUISITION EXECUTIVE**
Mr. Jim Smith

Tuesday 1145-1245 / Tuesday 1700-1800

# Leveraging Agile Authorities



## OTHER TRANSACTIONAL AUTHORITIES

FY18: 3 Awarded
FY19: 7 Awarded
FY20: 40 Awarded
FY21: 9 Awards to date; 5 Remaining

- Prototype as a Service Follow On
- Prototype as a Service
- Media Manipulation Phase 2
- Multi-FMV Fusion 3D Capability
- Integrated Cyber & Electronic Warfare Infrastructure

## MID-TIER ACQUISITION

Rapid Prototyping (9)/Rapid Fielding (1)

- Precision Strike - Ground & Maritime
- Mid-Range Gas Gun
- Lightweight Machine Gun - Medium
- Personal Defense Weapon System
- Maritime Precision Engagement– Integrated
- Combat Diving – Navigation & Propulsion
- Handgun Suppressor
- Fire Support-Mission Training & Preparation System

## PARTNERSHIP INTERMEDIARY AGREEMENT

- Transitions to Program of Record (34)
- Consignments (74)
- Prize Challenges (25)
- Hack-A-Thons (7)
- Rapid Prototyping Projects (7)
- Capability Collaboration Events (74)
- Capability Assessment Events (36)
- Collaborative Project Orders (51)

# TECHNOLOGY FOCUS AREAS

- Next Generation Intelligence, Surveillance, & Reconnaissance (ISR)
- Next Generation Mobility
- Precision Fires & Effects
- Hyper Enabled Operators
- Networks & Data
- Biotechnology & Human Interface



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# Capability Focus Areas

## Next Gen ISR

- Find, fix, finish, exploit & analyze
- Faster & improved accuracy
- Use with & through all domains (Air, Space, Cyber, Maritime, Ground)
- Constellation of multiple CubeSats & SmallSats containing ISR sensors
- Sensors capable threat warning, tracking, & data exfil
- Access to non-permissive environments for intelligence collection

## Next Gen Mobility

- Increased survivability
- Alternate precision navigation & timing

## Next Generation Effects

- Precision strike
- Kinetic/non-kinetic effects in directed energy & cyber

## Biotechnologies & Human Interface

- Empower the combat medic
  - Prolonged field care
- Increase physical & cognitive performance

## Hyper Enabled Operator

- Increased survivability, lethality, & situational awareness
- Advanced human-machine interfaces
- Improved decision making

## Network & Data Management

- Mobility of the SOF global mission force
- Provision connectivity anywhere with anyone
- Computing at the edge
- Embedded multimodal data discovery
- Artificial intelligence/machine learning
- Automatically discover, know, anticipate, collaborate

# S&T Integrated Priority List (STIPL)

- Special Communications: Resilient, survivable, federated networks & information ecosystems critical for successful execution of SOF missions
- Tailorable Lethality: Significant increases in precision effects & combat lethality to deliver small unit dominance
- Electronic Warfare (EW): Offensive EW & Cyber effects that can enable or execute collaborative non-kinetic/kinetic effects
- Human Performance Optimization: Novel means to monitor in real time, while safely improving/increasing the SOF operator's physical & cognitive abilities
- Data Enabled SOF: Advances in artificial intelligence/machine learning (AI/ML) & edge computing techniques to enable data accessibility, advanced processing & analysis, & dissemination in contested/disconnected operating environments. Advance SOF effectiveness through flexible autonomy, reduced operator cognitive loading, & timely actionable insight to tactical decision making

# USSOCOM

## *How Industry Can Help*

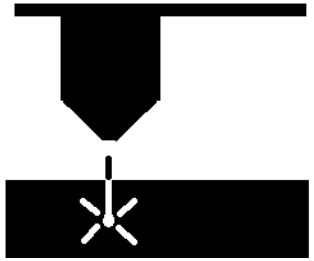
# Numerous On-Ramps

## TRADITIONAL ACQUISITION

- Beta.SAM.gov

## AGILE ACQUISITION

- SOFWERX
- Broad Agency Announcements
- Small Business Innovation Research (SBIR)
- Technical Experimentation



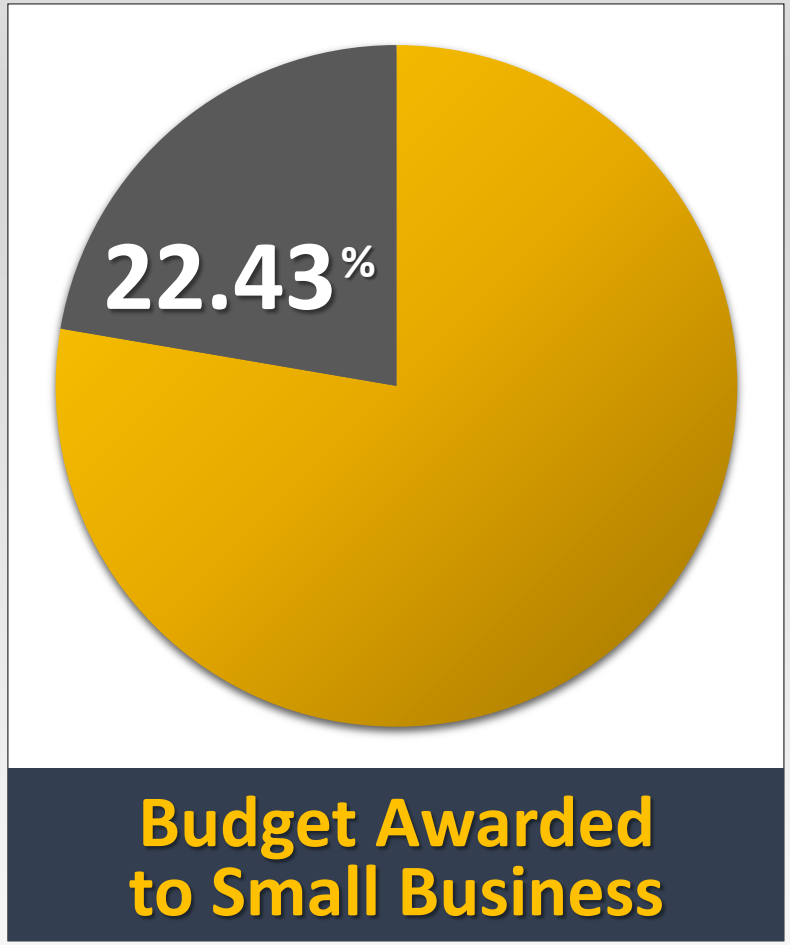
## TECH DISCOVERY

(No Contract/Funding)

- Tech Experimentation
- Central Data Repository
- Engage SOF (eSOF)
- Cooperative Research

# Opportunity

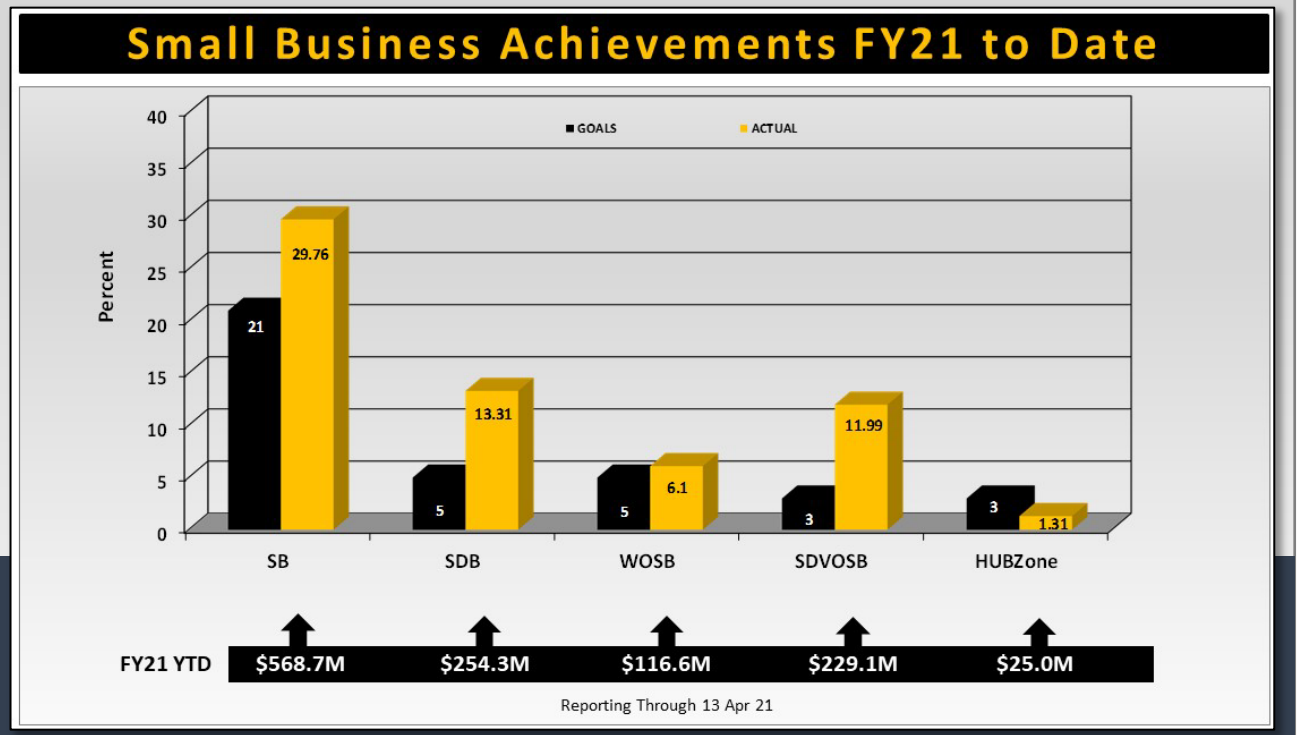
FY20 Small Business Contracts




Budget Awarded to Small Business

# Small Business Office

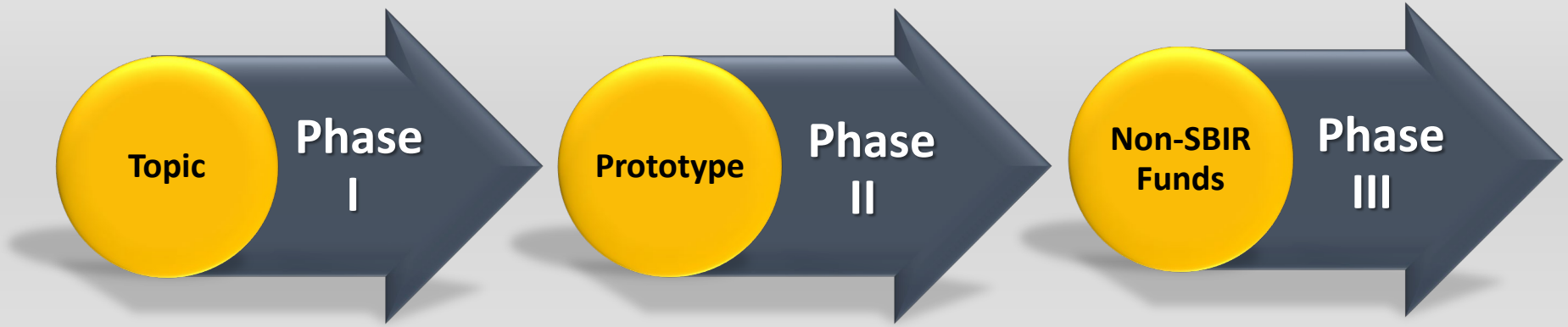
- Important Point of Entry for Small Businesses
- Office is charged with ensuring Small Businesses are afforded the maximum practical opportunity to support the command
- Regularly meet with Small & Large Businesses
  - Virtual meetings
  - AE SB Roundtable 6x a year virtually
  - E-mail or call any day
- What's important to us?
  - Capability, capability, capability
  - Proven track record of performance
  - Proper clearances
  - Tickets are secondary at best



**Mr. Christopher Harrington**
**Small Business Office Director**
**Christopher.Harrington@socom.mil**
**Cell: 813-843-4611**

***For more information, visit the Office of Small Business Programs booth in the exhibition hall***

# Small Business Innovation Research (SBIR) Three Phased Approach Developing Innovative Solutions




- Begins with SBIR Topic
- Feasibility Study
- Firm performs 66% work
- Typically $150K

- Follow on from Phase I
- Leverage other Phase I
- Direct to Phase II
- Proof of Concept
- Prototype Development
- Firm performs 50% work
- Typically $1M

- Non-SBIR Funds
- Competition met with Phase I or Direct to Phase II
- No funding or size limit

# >50% of USSOCOM Phase IIs Began as Non-SOF Efforts

# SBIR Links

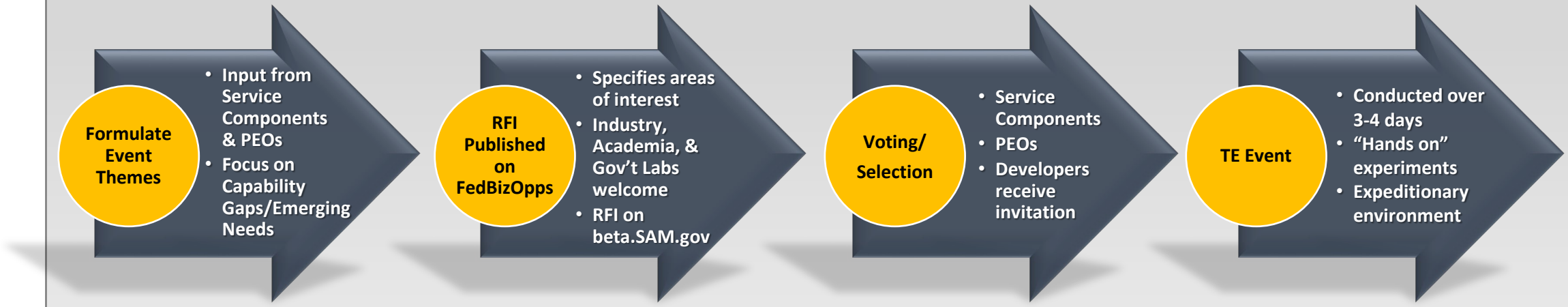
- **USSOCOM SBIR Program: https://www.socom.mil/SOF-ATL/Pages/sbir.aspx**
- **DoD SBIR program (managed by OSBP): www.acq.osd.mil/osbp/sbir**
- **Federal SBIR Program (managed by SBA): www.sbir.gov**

**Mr. Mina Khalil**
**Science & Technology Office**
**Mina Khalil@socom.mil**
**(813) 826-7003**

***For more information, visit the SBIR/SBTTP booth in the exhibition hall***

# Technical Experimentation Purpose/Process

**To help improve SOF warfighter capability and provide operational & programmatic insight to industry by bringing Technology Developers, Operational Users, and Program Offices together to assess developing technology.**




- Continuous Planning
- 3 events per year
- Event locations picked to optimize themes

- RFI published approximately 110-120 days prior to event
- Describes theme, venue, & submission procedures
- RFI open for 30 days

- Voting occurs 80-90 days prior to event
- Developers invited ~45-50 days before event
- ~30 days before event: Schedule & facility information emailed to participants & observers

- Blocked time for Industry experiments
- Verbal feedback from assessors at event
- Written feedback 30 days after event

# TE Schedule

- **TE 21-2, 21-25 June 2021 at Muscatatuck, IN**
  - Experimentation Focus: Next Generation ISR/Tactically Relevant SA, Biotechnologies/Human Interface
- **TE 21-3, 26-30 July 2021 at Muscatatuck, IN**
  - Experimentation Focus: Sense Through The Wall (STTW)
- **TE 22-1, 15-19 November 2021 at Key West, FL or Coronado, CA (TBD)**
  - Experimentation Focus: Combat Diver/ Surface Systems

- **Public Link: https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx**

**Mr. Dan Bernard**
**Science & Technology Office**
**Tech_exp@socom.mil**
***For more information, visit the Science & Technology Connections booth in the exhibition hall***

# USSOCOM/SOFWERX

**USSOCOM's Partnership Intermediary Agreement (PIA) operates as SOFWERX under 15 USC 3715**

## CAPABILITIES

- SOF Focused Ecosystem
- Collider/Disrupter Events
- Ideation Sessions & Collaboration
- Prize Challenges, Prototyping, Experimentation, Combat Evals
- Fast & Flexible Agent
- Commercial Non-FAR Sub-Awards
- Off-Base Access
- Honest Broker

## VALUE

- Making New Tech & Capabilities Available
- Competitive Acquisition Process
- Pacing Commercial Tech Gains & Threats
- High Iterative Cycles, Low Cost
- Better Informed & Quality Decision Making
- Low Barriers to Entry for Industry
- Accelerate Entry Into Acquisition Cycles
- Building Relationships

**Join the SOFWERX Ecosystem: www.sofwerx.org**

# Technology & Industry Liaison Office (TILO)- ENGAGE SOF (eSOF)

- Transitioned from Technology & Industry Liaison Office (TILO) to Engage SOF (eSOF) at beginning of FY21
- Will still match your company's product/service/capability to the appropriate personnel within the command
- Schedule discussions or demonstrations if there is sufficient interest at the headquarters
- Public Link:
  - https://www.socom.mil/SOF-ATL/Pages/eSOF-main.aspx

**Ms. Shelvin Watts**
**eSOF Office**
**eSOF@socom.mil**
**(813) 826-9482**

***For more information, visit the Science & Technology Connections booth in the exhibition hall***

# OCRADA Purpose

## Overarching Cooperative Research & Development Agreement (OCRADA)

**Advance research & capability development to meet USSOCOM mission requirements & supports viability in other potential commercial applications**

## OCRADA Process

**Request OCRADA**
- Request thru Appropriate PEO or Directorate
- Does an OCRADA Already Exist? Yes or No

**Review OCRADA**
- Review existing OCRADA
- If OCRADA acceptable, Sign
- If not, Request Traditional CRADA

**OCRADA Established**
- Submit to SOF AT&L S&T
- Receive Unique Number

**Develop IWP**
- Coordinate Individual Work Plan (IWP)
- Complete IWP
- PEO/Dir IWP Signature

**Mr. Ben Chitty**
**Science & Technology Office**
discovery@socom.mil

# YOUR CHALLENGE

**We Move Fast, but We Need to Move Even Faster — Can You Keep Pace?**

- New Tools & Authorities
- SOF are Early Adapters

Transparent

# WORK WITH US

www.socom.mil/SOF-ATL
@SOAExec

Linkedin.com/in/ussocom-ae

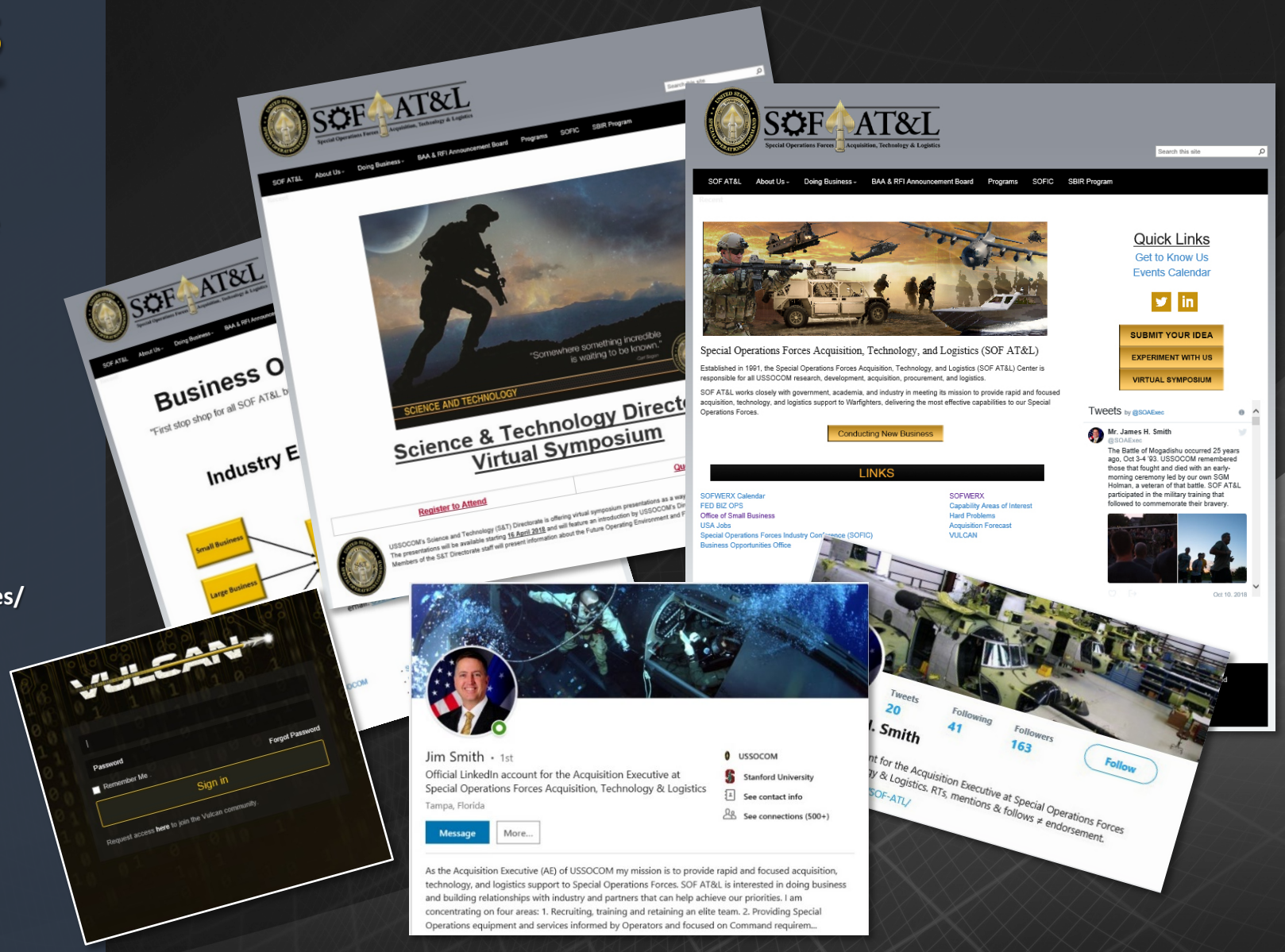
## Small Business Help
Christopher Harrington
Christopher.Harrington@socom.mil
813.826.9475

## Submitting Ideas
Shelvin Watts
eSOF@socom.mil
https://www.socom.mil/SOF-ATL/Pages/eSOF-main.aspx
813.826.9482

## VULCAN
https://www.Vulcan-SOF.com

## SOFWERX
https://www.sofwerx.org

## Technical Experimentation
https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx




**Videos will be available at https://www.socom.mil/SOF-ATL/Pages/sofic.aspx after the event**



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# QUESTIONS

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. David Breede,** Program Executive Officer

## SPECIAL RECONNAISSANCE OVERVIEW

SOF AT&L



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# Program Executive Office Special Reconnaissance

## Mission Statement

**"Lead the rapid and focused acquisition of state-of-the-art sensors and associated C2, emplacement, recovery, and specialized communication systems across all domains to enable total situational awareness for the SOF Warfighter"**

# Program Executive Office Special Reconnaissance

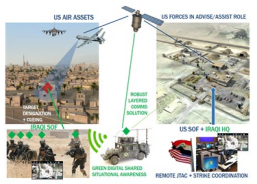
## TECHNICAL COLLECTION & COMMUNICATION

Hostile Forces-TTL

Blue Force Tracking

Special Comms

TVS/RSTA



Remote Advise & Assist Virtual Accompany Kit

## INTEGRATED SENSOR SYSTEMS

AIR

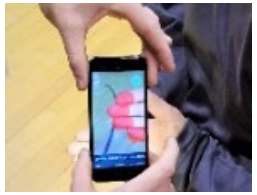
Maritime

Ground

UAS

SIGINT PED

## SENSITIVE SITE EXPLOITATION

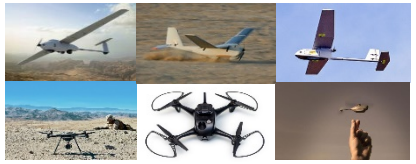


Biometrics

Forensics

Exploitation Analysis Center

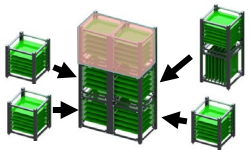
## REMOTE CAPABILITIES



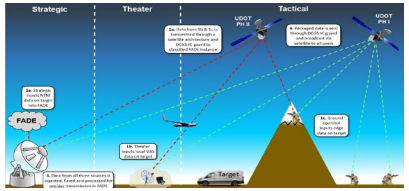
EOTACS/SAFC

MTUAS

G3UAS



MEUAS




TENCAP/Space Based Capabilities



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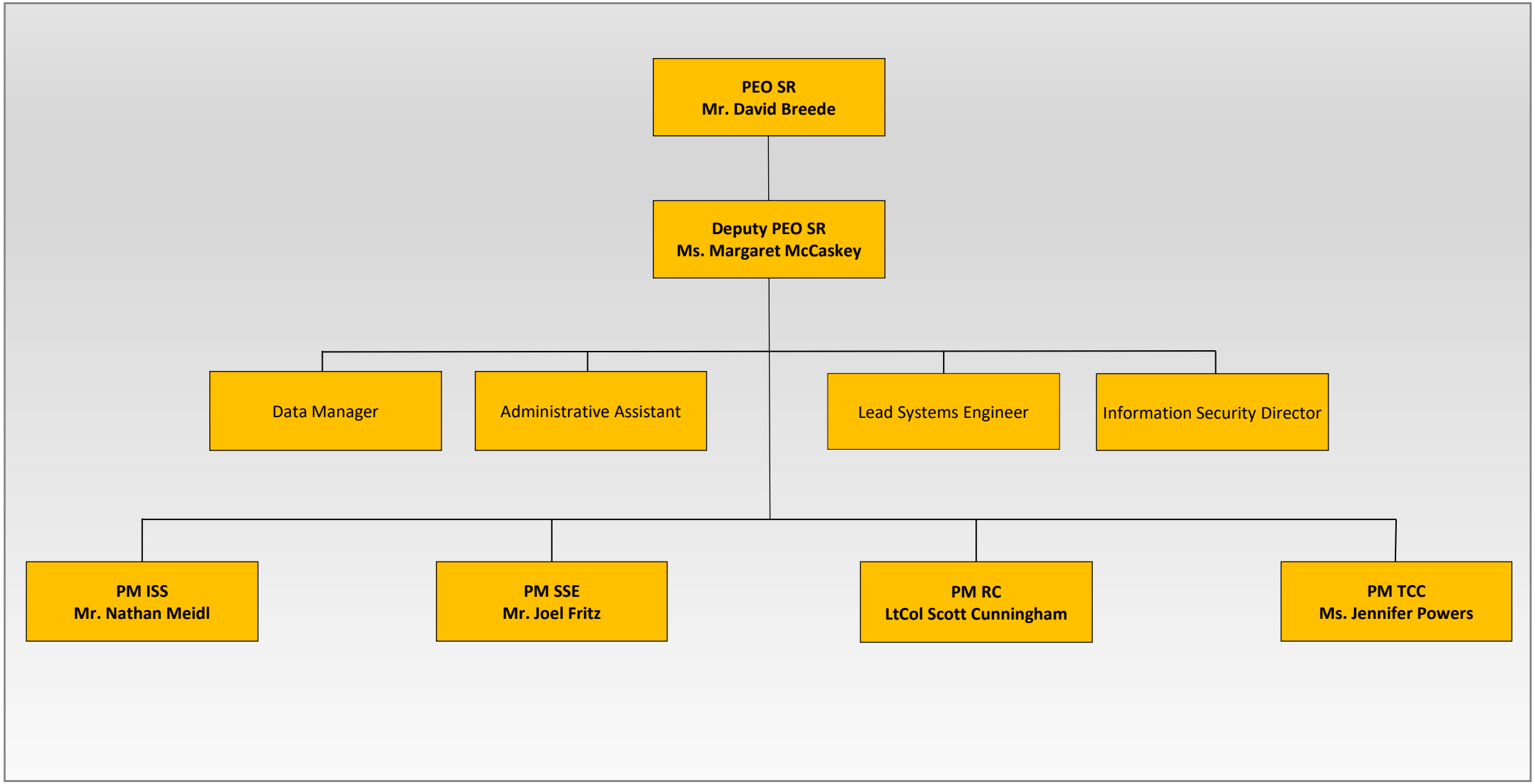
# Program Executive Office Special Reconnaissance





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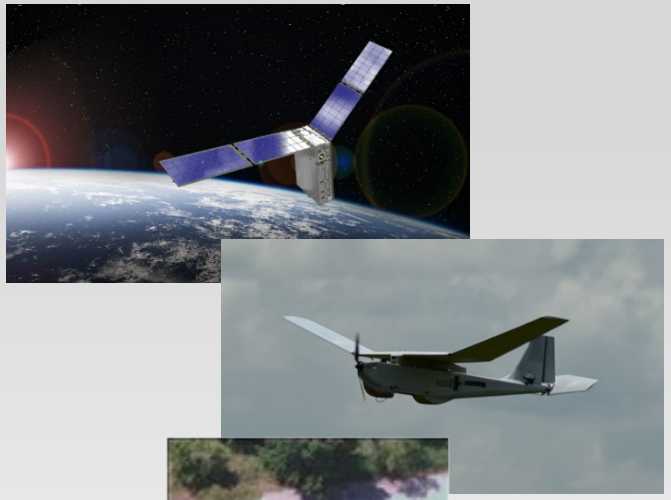
# Next Generation of Special Reconnaissance

## Operations in a Near-Peer and Non-Permissive Environment

- Low signature
- Remote/unmanned/unattended sensors
- Integrated & cooperative SR
- Alternative Position, Navigation, and Timing (A-PNT)



## More Efficient CT/CVEO

- Cross-Program Solutions
- Partner Force Advise and Assist
  - Releasable technologies
  - Shareable and accessible intelligence

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# Program Manager - Technical Collection and Communications

**PM Technical Collection and Communications (TCC)**

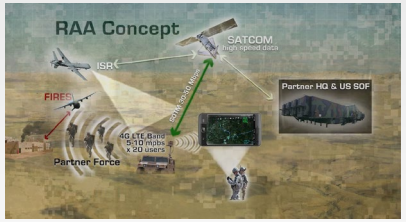
## Hostile Forces – Tagging, Tracking, & Locating (HF-TTL)

## Tactical Video Systems/Reconnaissance Surveillance Target Acquisition (TVS/RSTA)

## Blue Force Tracking (BFT)

## Special Communications Enterprise (SCE)

## Remote Advise Assist Virtual Accompany Kit (RAA/VAK)



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# Technical Collection & Communications (TCC)

## Mission:

**Develop, field and sustain credible special reconnaissance, surveillance, and communication capabilities that support the SOF Operator missions to include: Tagging, Tracking, and Locating of enemy assets; capturing and transferring of near-real time ground based tactical imagery and video; providing non-traditional communications capabilities for low density and sensitive missions; and providing battlefield visualization and situational awareness through remotely tracking and monitoring SOF Operators and Partnered Forces.**

## TCC Portfolio:

- **Blue Force Tracking**
- **Hostile Force Tagging, Tracking and Locating**
- **Close Target and Long-Range Video**
- **Close Target Audio**
- **Attended & Unattended Ground and Maritime Sensors**
- **Remote Advise and Assist**
- **Over-the-Horizon Special Communications**

## Development Priorities:

- **Traditional & Non-traditional TTL**
- **Personnel Recovery**
- **Remote Emplacement of Sensors**
- **Intelligent Sensors – Processing at the Edge**
- **Data Exfiltration (LPI/LPD Waveforms)**
- **Assured & Alternate PNT**
- **Releasable Technologies**

### OPPORTUNITIES

- **HF TTL / TV RSTA FSR contract pending post on beta.SAM.gov**
- **Collaborate with SOFWERX for Technology and Integration**

### FUNDING

| APPROP | FY21 |
|---|---|
| O&M | $70.9M |
| PROC | $41.7M |
| RDT&E | $14.4M |

### CURRENT CONTRACT/OEM

- **T-REX Multiple Award IDIQ Contract**
- **Multiple OEMs**
- **Leveraging OGAs**



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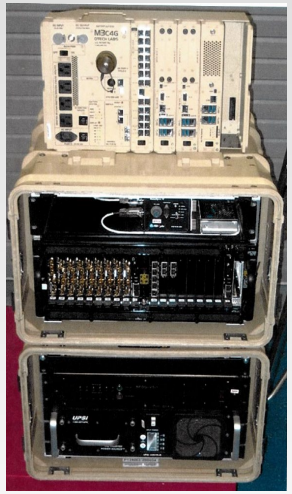
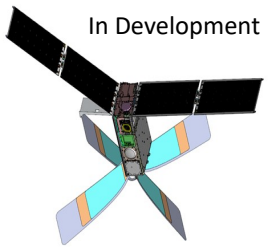
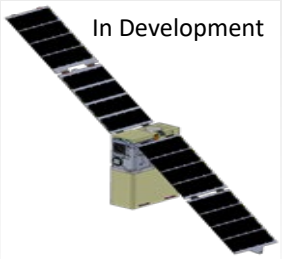
# Program Manager Integrated Sensor System

**PM - Integrated Sensor Systems**

| JTWS* Maritime | JTWS* Ground | JTWS* Air | JTWS* UAS | JTWS* Space | SIGINT PED |
|---|---|---|---|---|---|
| |  | | | In Development  | |
| | | | | In Development  | |

*JTWS: Joint Threat Warning System



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# Integrated Sensor Systems

## Mission:

**Synchronize acquisition of signals intelligence capabilities across the air, ground and maritime domains. Enhanced target acquisition of Signals of Interest. Develop and field interoperable, networked sensors based upon open hardware and software architectures to enable the common operating picture and feed data into all-source analysis tools.**

## Development Priorities:

- **Interoperability (Modular Payload Compliant/Software Defined Interfaces).**
- **Information Assurance/Risk Management Framework hardening by Developers**
- **Frequency Agile Sensors (Near Peer Signals of Interest)**
- **Cyber Enabling Capabilities (enabling, not offensive)**

## ISS Portfolio:

- **JTWS**
  - Maritime Systems
  - Ground Systems
  - Air Systems (Manned)
  - Unmanned Aerial Systems
  - Space
- **Processing Exploitation & Dissemination**

### OPPORTUNITIES

- **ISS Industry Demo Event**
  - **30 Aug – 3 Sep, MUTC, IN**
- **Small Satellite SIGINT Payloads**

### FUNDING

| APPROP | FY21 |
|---|---|
| O&M | $37M |
| PROC | $68M |
| RDT&E | $16M |

### CURRENT CONTRACT/OEM

- **5Yr IDIQ Contract with HW Vendor**
- **1Yr with 3 option year sustainment and Logistics Contract**
- **T-Rex Multiple Award IDIQ Contract**



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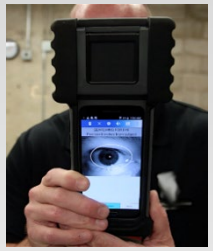
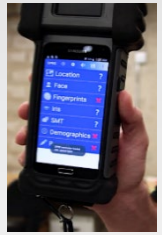
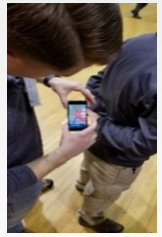
# Program Manager - Sensitive Site Exploitation

**PM Sensitive Site Exploitation**

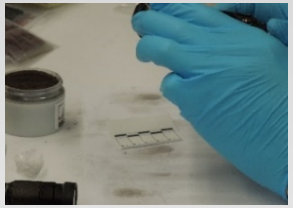
**Biometrics**

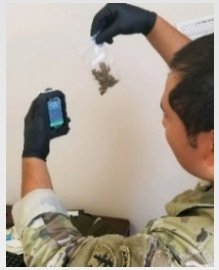






**Forensics**





**Exploitation Analysis Capability**

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# Sensitive Site Exploitation

## Mission:

In support of the SOF warfighter, the SSE Program provides capability to exploit personnel and collected exploitable material on a sensitive site/objective. SSE equipment collects unique biometric signatures to include latent fingerprints and DNA and forensically links events to specific persons through forensic chemistry analysis, document and media exploitation, and cell phone exploitation. Exploitation Analysis Capabilities provide modular field-level multi-disciplined forensic capability that allows for more in-depth analysis of materials taken off target.

## SSE Portfolio

- Biometrics
- Forensics
- Exploitation Analysis Capability (EAC)

## Development Priorities:

- On Site Collection, Verification, and Enrollment of Biometrics (Iris, Face, DNA, Fingerprint, etc.)
- Apply Forensic Principles to Collected Exploitable Materials (CEM) for Rapid Detection, Collection, Identification, Analysis, and Dissemination to the Intelligence Community

### OPPORTUNITIES

- Collaborative Project Order with SOFWERX for Technology and Integration
- Tactical Forensic Chemistry Event
  4th Quarter FY21

### FUNDING

| APPROP | FY21 |
|---|---|
| O&M | $17.1M |
| PROC | $2.7M |
| RDT&E | $7.6M |

### CURRENT CONTRACT/OEM

- T-REX Multiple Award IDIQ Contract
- Multiple OEMs



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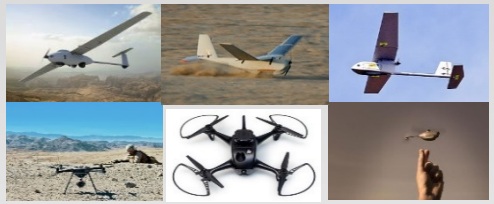
# Program Manager - Remote Capabilities

**PM Remote Capabilities**

**Expeditionary Organic Tactical AISR Capability Set (EOTACS)/Special Applications for Contingencies (SAFC)**

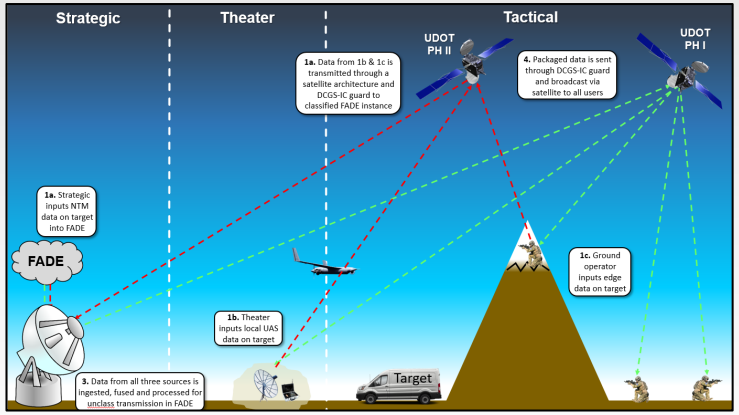


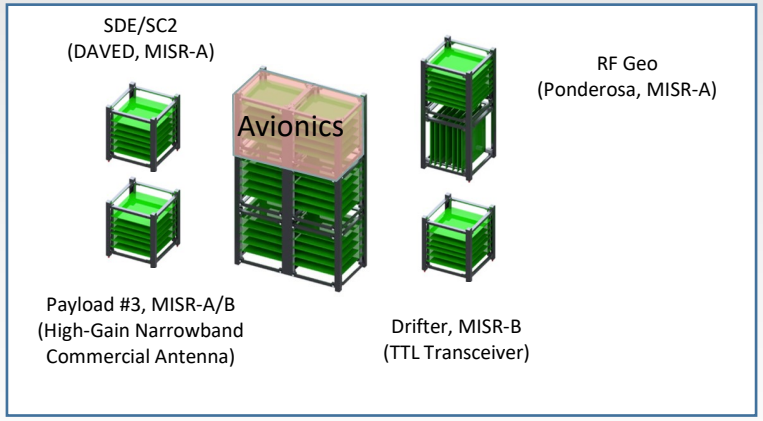
**Multi-Mission Tactical Unmanned Aircraft System (MTUAS)**

**Group 3 Unmanned Aircraft System (G3UAS)**

**Mid-Endurance Unmanned Aircraft System (MEUAS)/ ISR Services**

**TENCAP/Space Based Capabilities**



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# Remote Capabilities (RC)

## Mission:

**Develop, field, and sustain unmanned systems across space, air, ground and maritime domains. Enable autonomous technical and tactical collection and exploitation of ISR sensor capabilities providing total situational awareness in support of SOF operations in permissive and contested environments.**

## RC Portfolio:

- **Groups 1-3 UAS**
- **ISR Services**
- **Space Based Capabilities**
- **TENCAP**

## Development Priorities:

- **Modular and multi-Int payloads**
- **Tools to leverage national capabilities**
- **Remote sensor emplacement, C2, and retrieval**
- **Mission tailored small satellite payloads**

### OPPORTUNITIES

- **MTUAS increment 2 production contract—3QFY22**
- **Exploring autonomous AI/ML-enabled UAS**
- **Exploring commercial space for hosting mission payloads**

### FUNDING

| APPROP | FY21 |
|---|---|
| O&M | $260M |
| PROC | $19.7M |
| RDT&E | $15M |

### CURRENT CONTRACT/OEM

- **T-REX Multiple Award IDIQ Contract**
- **Multiple OEMs**
- **Leveraging OGAs**



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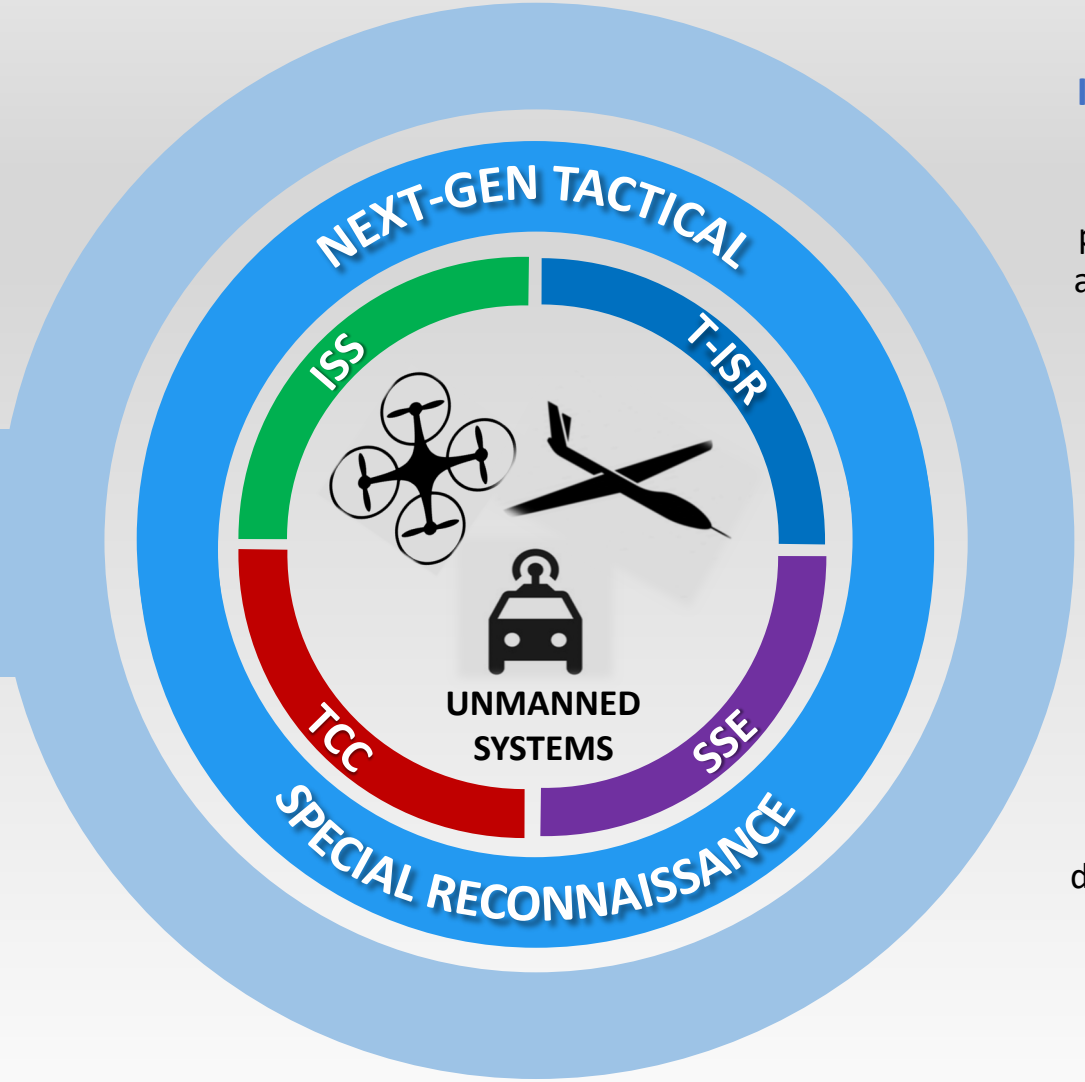
# Unmanned Systems to Enable the SOF Special Reconnaissance Modernization Strategy

**ISS - Integrated Sensor Systems**
Flexible RF systems through software defined radios, frequency agile antennas, and modularity across domains

**HUMAN-MACHINE TEAMING**
**COLLABORATIVE UxS**
**PAYLOAD INTEGRATION**
**EDGE COMPUTING/AUTOMATION**

**TCC - Technical Collection & Communication**
Increase ground sensor processing power, integrate alternative comm pathways, and improve interoperability with disparate networks




**T-ISR - Tactical Intelligence, Surveillance, & Reconnaissance**
Collaborative autonomous platforms operating based on a shared understanding of the environment without active operator control

**SSE - Sensitive Site Exploitation**
Stand-off, untethered detection and exploitation and advanced edge processing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# Rapid Prototyping Via SOFWERX

## CONCEPT

**PURPOSE**:
Insertion of new technology or capabilities into programs of record via rapid prototyping

- Technology interests will be distributed via the SOFWERX Ecosystem and published on SAM.gov
- Prototype developed via a 6-to-9-month effort
  - Effort kick-offs could be in current FY or planned for next FY based on effort cost and availability of funds
- Targeting technologies at TRL 5- 7
- Prototypes are for proof-of-principle only not intended for DT or OT
- Prototype efforts will be at the unclassified level.

*** Go to SOFWERX.org and join the ecosystem to make sure you get all the announcements.

## PROCESS/TIMELINE

**FY 21 (Compressed)**

- Initial “Eco-Blast” end of April 2021
- Mid May to Mid June, window for Q&A sessions with PM reps
- White papers due mid July
- Initial down select end of July
- Assessment event first week of August
- Final selections mid August

**FY22**

- Goal is to have Eco-Blast out mid to late 1QFY
  - Other Eco-Blasts during the year are possible based on PM needs
- More time for WP submissions
- More time for evaluation and selection process


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# USSOCOM- BAAST- 2020

## USSOCOM-BAAST-2020

- Update in April 2021
- Appendix A: SR unclassified technology areas are incorporated into this appendix
    - Section 4.1

## Technology Areas of Interest

- Biometrics/Forensics and Sensitive Site Exploitation
- Data Exfiltration
- Information Systems
- Low-Vis Communications
- Obfuscated Data Transport Systems/Architectures
- Sensors
- SIGINT
- Tagging, Tracking, and Locating
- Technical Support Systems


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# Industry Support to the SOF Mission

- Partnering – Collaboration
- Modular Solutions
- Multiple Points of Entry
- Don't be Afraid of Small Projects
- Warfighter Focus
- Big Leaps as well as Iterations
- Yes, if…

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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Spencer Baker,** Director, Acquisition Agility

**SOFWERX**

SOF AT&L



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# Removing Boundaries

**SOF AT&L is Interested in Leveraging EVERY Unique Approach to SOF Challenges**

- Create a partnership pathway for Non-Traditional, Small Business
- Remove Government-Specific Requirements; Reduce Cost and Complexity; Accelerate speed to award
- Address Cooperative Intellectual Property Concerns


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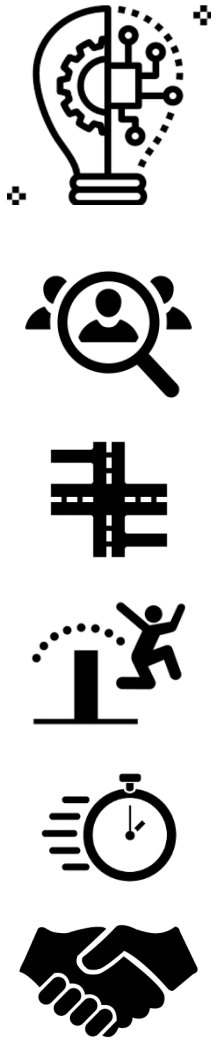
# SOFWERX Value to Gov & Non-Traditional Industry

## CAPABILITIES

- SOF Focused Ecosystem ~50k+
- Ideation Sessions & Collaboration
- Prize Challenges, Prototyping, Experimentation, Combat Evals
- Fast and Flexible Agent
- Commercial Non-FAR Sub-Awards
- Off-Base Access
- Honest Broker



## VALUE

- Making New Tech & Capabilities Available
- Pacing Tech Gains & Threats
- High Iterative Cycles, Low Cost
- Better Informed And Quality Decision Making
- Low Barriers to Entry for Industry
- Accelerate Entry into Acquisition Cycles
- Building Relationships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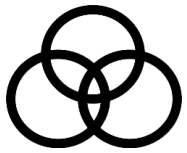
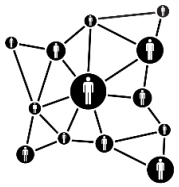
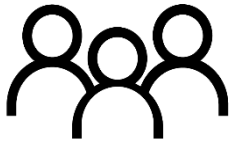
# SOFWERX Pathways



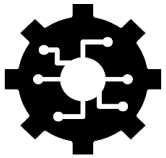
**Problem Curation & Acquisition Strategy**



**Ecosystem Trove**



**Capability Collaboration for Technologies & Solutions**



**Capability Assessments**

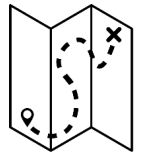
**Prize Challenges Hack-a-Thons**

**Rapid Prototyping**

**Tech Sprints & Experimentation**

**Combat Evaluations**

**Collaborative Project Orders**



**Transition Pathway**

**Network Building**

Problem Statements
Technology Strategies
Information/Ideas/Contacts

**Problem Validation**

Preliminary Designs
Concept Prototypes
Feasibility Assessments

**Solution Validation**

Concept Prototypes
Operational Assessments
Test Data

**Solution Delivery**



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# SOFWERX

- **In September 2015, USSOCOM and DEFENSEWERX established a Partnership Intermediary Agreement (PIA) under USC Title 15.**
- **Charter: Create and maintain a platform to accelerate delivery of innovative capabilities to USSOCOM and facilitate capability refinement thru exploration, experimentation, and assessment of promising technology**
- **SOFWERX has operationalized the charter into three separate areas:**
  - **Discovery: The SOF Ecosystem** - Explore diverse approaches to extend the SOF competitive advantage
  - **Engagement: Collaborative Events** - Deliberate collisions between USSOCOM and external innovation partners
  - **Acceleration: Impacts & Outcomes** - Increasing the velocity and volume of technology delivery to SOF to ensure supremacy


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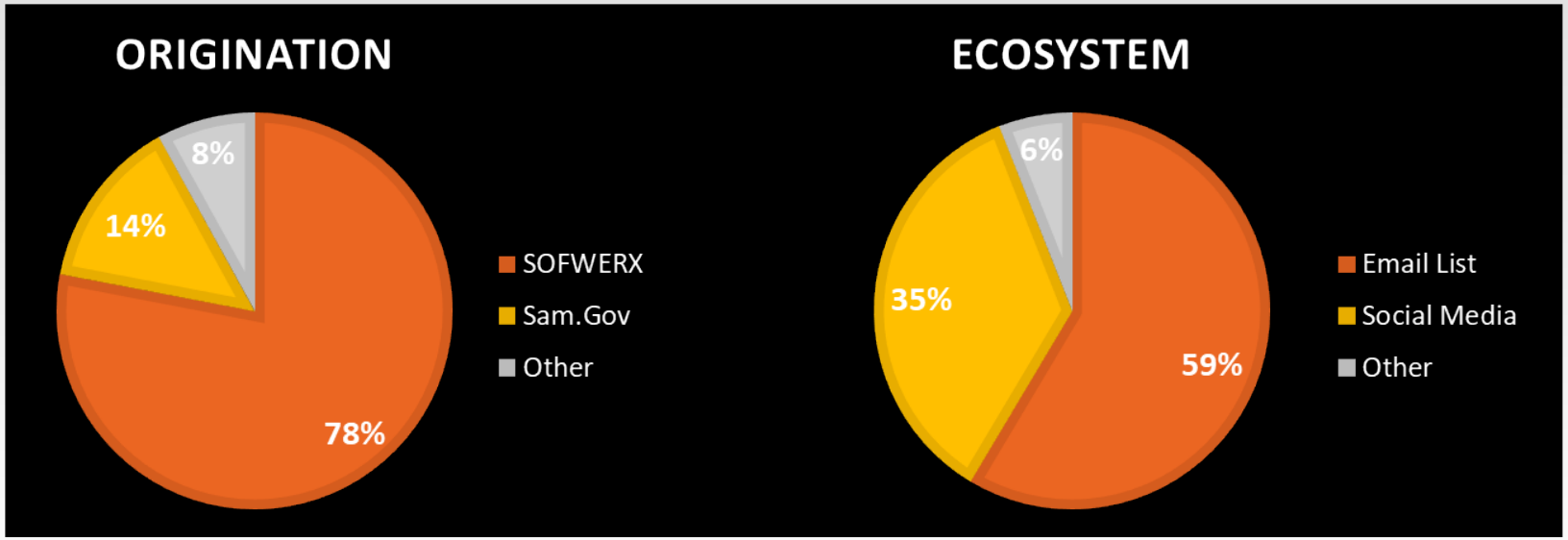
# Discovery

*The SOF Ecosystem: Explore and evaluate previously inaccessible technological approaches to extend the SOF competitive advantage*

- **SOFWERX is a neutral, non-profit that facilitates and executes technology discovery to solve USSOCOM Warfighter challenges**
- **The robust SOFWERX ecosystem, with 50k+ members, includes: USSOCOM, Interagency Partners, Academia, Interns, National Laboratories, and Non-Traditionals**
- **SOFWERX conducts industry/market research to discover and attract innovative capabilities**





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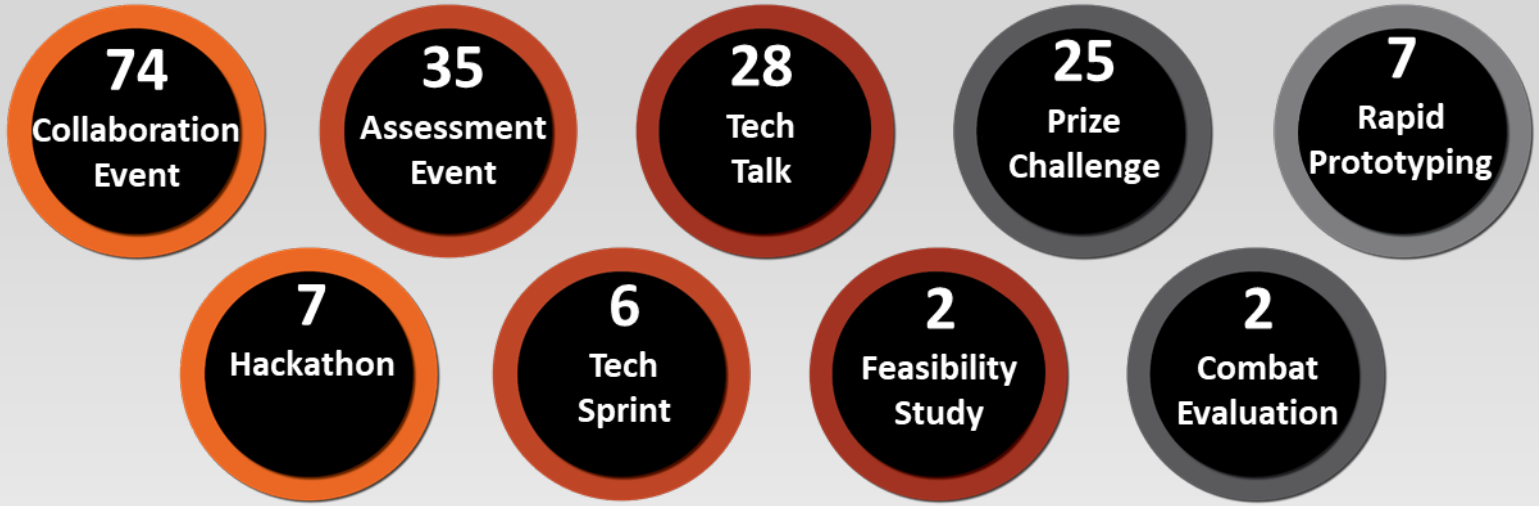
# Engagement

*SOFWERX Events: Deliberate collisions between USSOCOM and external innovation partners*

- **SOFWERX has facilitated 238 operator-focused projects and nearly 200 events**




- **In May 2020, SOFWERX launched Tech Tuesday, a forum for innovators to present transformational technologies to USSOCOM and other Government partners.**
  - **612 Government personnel in ecosystem**
  - **623 technologies submitted**
  - **206 presented to users and tech stakeholders**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# Acceleration

*Outcomes: Increasing the velocity and volume of technology delivery to SOF to ensure supremacy*

- **SWX has contracted $30,697,288 through Purchase Orders and B2B Agreements**
- **Typical timeline for each challenge conducted through SOFWERX is 60-90 days from kick-off to event execution**
- **SWX has completed 238 projects to advance technologies to the Warfighter**
- **Small Business Innovation Research (SBIR) Program leveraging the SWX Ecosystem**

| Metrics | Historical SOCOM Actuals | Pilot Actuals /Projections | Improvement |
|---|---|---|---|
| Offers Received | 19 | 39 | 205% |
| Phase I Contract Time | 102 Days | 22 Days | 78% |
| Phase II Contract Time | 105 Days | 20 Days | 81% |
| Phase I to Prototype Delivery | 40.5 Months | 14.5 Months | 64% |


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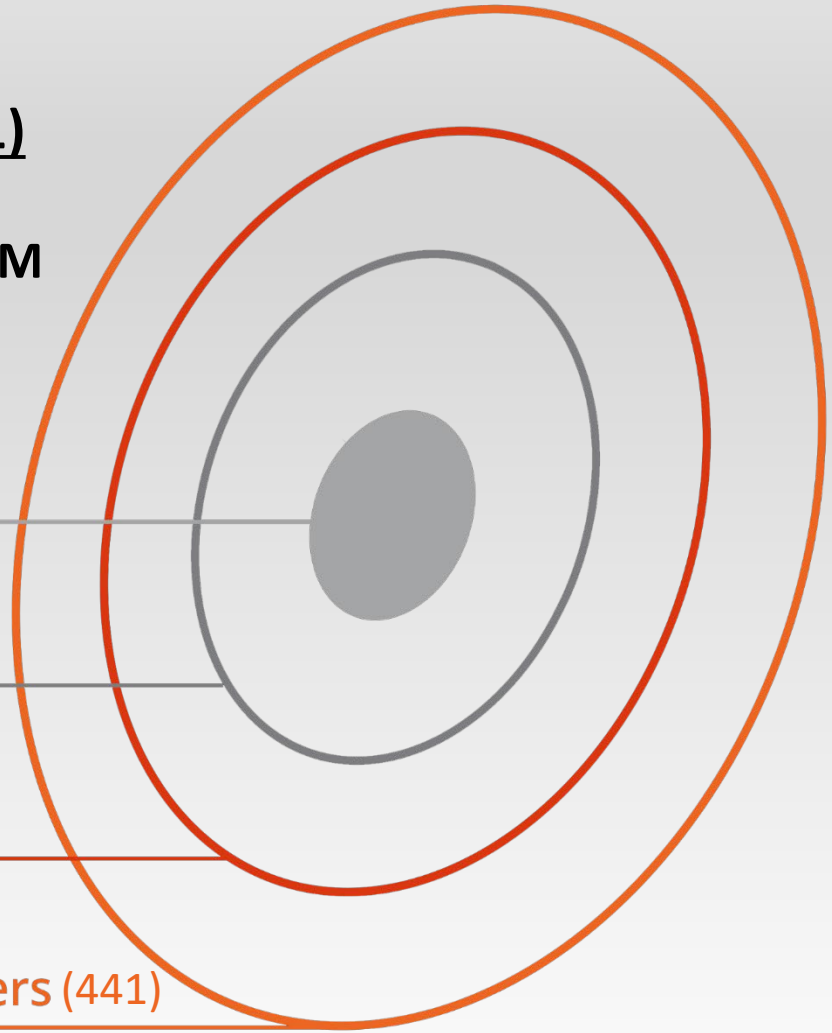
# Impacts

## Collaborative Project Orders (51)

- **FY21: 23 valued at $9.3M**
- **Cumulative: 51 valued at $70.6M**



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# STEM in Action

- Intern Program
  - Academic/Collegiate Intern support is provided through USF
  - For FY20/21, 43 academic interns from 14 different schools supported SOFWERX efforts
  - Each intern works up to 20 hrs/week during fall/spring semester and up to 30 hrs/week during the summer semester on approved projects.
- Elementary/Middle/High School Engagement
  - Support clubs or kickstart new STEM initiatives
  - Provide education and mentorship to explore career pathways
  - Create customized activities to demonstrate/showcase innovation processes

# Get Involved with SOFWERX

- Join the Ecosystem (sofwerx.org)
- Join the Tech Tuesday Ecosystem (sofwerx.org/techtuesday)
- Participate in events as SMEs (events.sofwerx.org)
- USSOCOM: Bring SOFWERX a Warfighter challenge (sofwerx.org/request)
- Innovators: Submit technologies to events and Tech Tuesday (events.sofwerx.org / sofwerx.org/techtuesday)


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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**COL Paul Weizer,** Program Executive Officer
**SOF DIGITAL APPLICATIONS**

SOF AT&L



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# PEO-SOF Digital Applications

**Vision:** Provide USSOCOM a "One-Stop-Shop" for SOF software intensive digital applications

**Mission:** Rapidly consolidate, integrate, acquire, and/or divest of SOF unique software solutions through use of the Adaptive Acquisition Framework and commercial "best practices" while providing "cradle-to-grave" management for the duration of required capabilities

**PEO SDA has three product-line portfolios and 1 "Gov't Software Factory"**

- **Mission Support Systems:** Intelligence and Operations analytics systems that provide a unified SOF Common Intelligence Picture and Common Operating Picture (CIP/COP) and decision support to USSOCOM Commanders/Operators at all echelons. Delivers interoperability and integration required for synchronized SOF Global Situational Awareness
- **SOF Digital EcoSystem:** Data Analytics Services and Tools
- **Special Operations Mission Planning and Execution**: Mission planning & execution software tools (SOF Air, Ground & Maritime)
- **Tactical Assault Kit** (TAK): Suite of Map-Based, Situational Awareness (SA) Software Applications across multiple platforms to include Android, iOS, Windows, Linux and HTML, that provides Tactical Capabilities for Military, Federal Government, and Civil 1st Responder operations

**Challenges & Opportunities**

- **USSOCOM Implementation Policy in Staffing -> DoDI 5000.02 (Adaptive Acquisition Framework) and 5000.87 (Software Acquisition Pathway)**
- **Strategizing a software POM position to be flexible enough to react to rapidly changing software environment**
- **Overcoming Bureaucratic Inertia -> Not all at stakeholders are on board with change**
- **Understanding (and employing) the greater DoD DevSecOps Community**
  - The "Achilles Heal" of PEO SDA is not having a DevSecOps environment w/cATO ready for use / interoperable w/other Components/Services
- **What is SOF Unique about Software/DevSecOps? (MFP11 vice P2)**
- **How do we reach non-traditional software developers?**
  - Seek unique approaches to solving complex problems
  - Protect innovative firms from becoming "government" vendors



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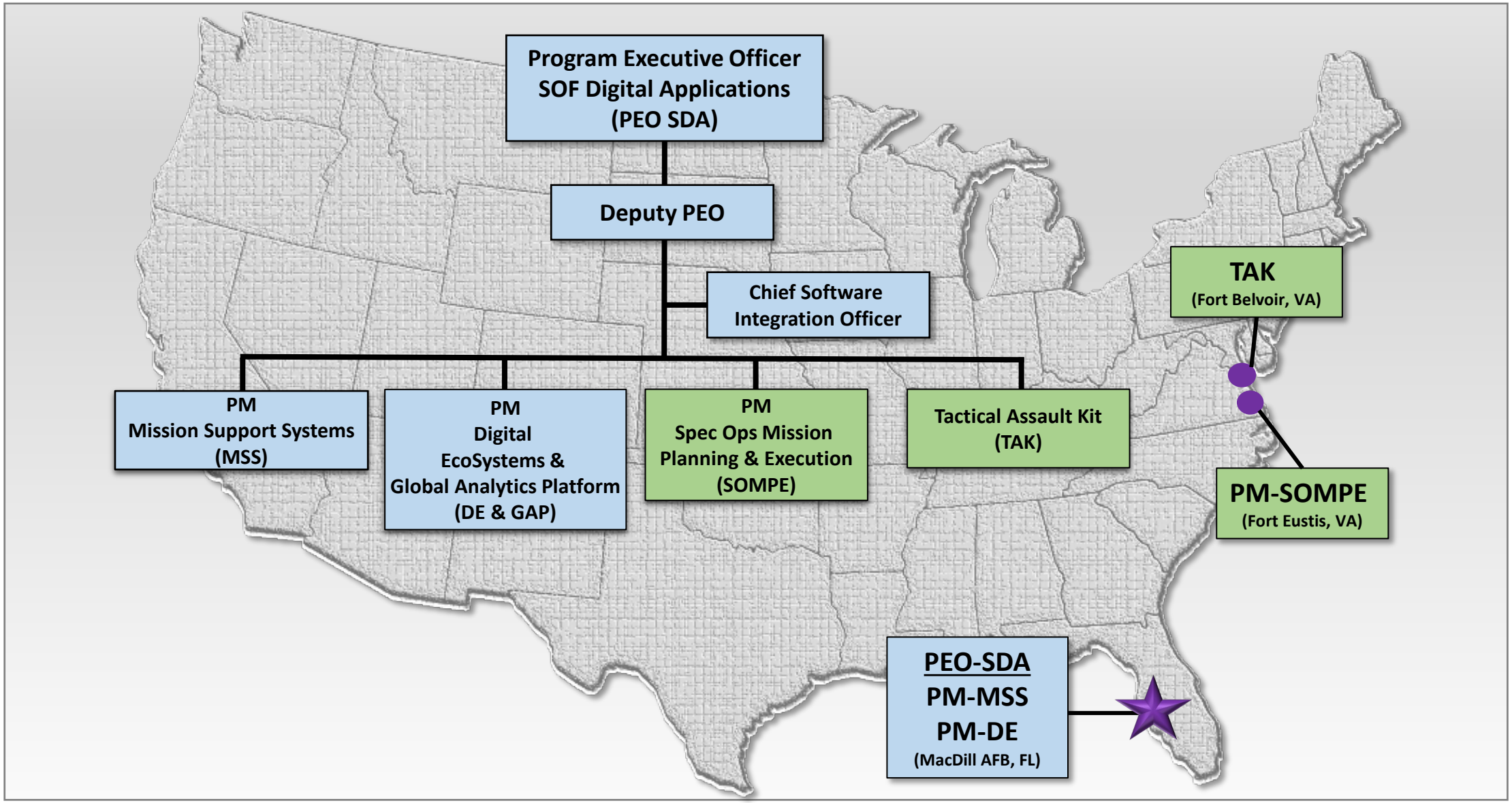
# PEO-SOF Digital Applications



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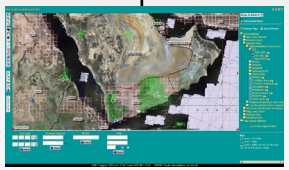
# Mission Support Systems (MSS)

**Program Manager Mission Support Systems (PM MSS)**

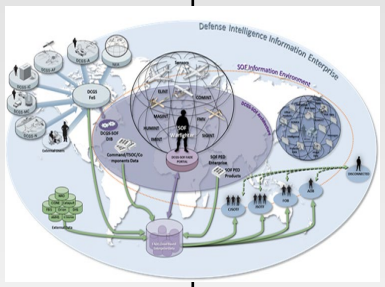
**Integrated Survey Program (ISP)**

**SOF Planning, Rehearsal, and Execution Preparation (SOFPREP)**

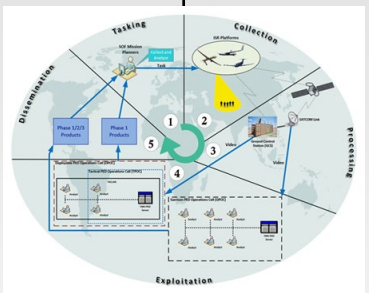


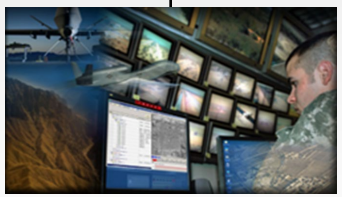
**Distributed Common Ground System for SOF (DCGS-SOF)**

**Enterprise/All Source Information Fusion (ENT/ASIF)**



**SOF Geospatial Intelligence Processing, Exploitation & Dissemination (SGIP)**



**Mission Command Systems / COP**

**Capabilities for Operations and Intelligence:**

- Integration & Interoperability to the Tactical Edge
- Agile Acquisition of Emerging Technologies

**Priorities:**

- Fielding of relevant software applications in support of mission command and intelligence requirements
- Solutions Framework for Data Exploitation
- Support of fielded capabilities



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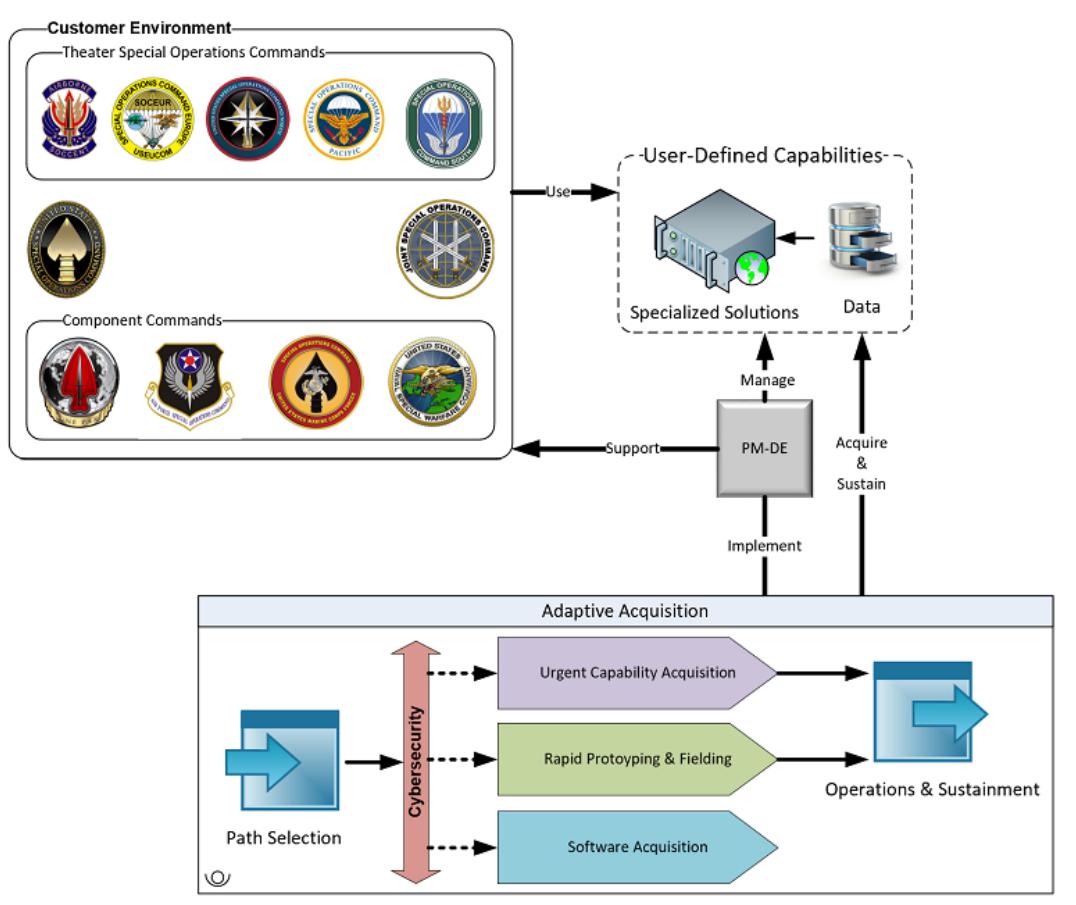
# Special Operations Forces Digital EcoSystem




## Environment

- Industry rapidly creating new opportunities to collect and use digital information
- SOF operator's pursuit of the advantage in the battlespace is relentless

## Requirement

- Consolidated SOF user needs
- Enterprise solutions
- Continuous capability improvement

## Opportunities with Industry

- Early insight into future capabilities
- Solutions supporting worldwide operations
- Contracts supporting rapid fielding and enterprise solutions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# Tactical Assault Kit/Team Awareness Kit (TAK)

## Description:

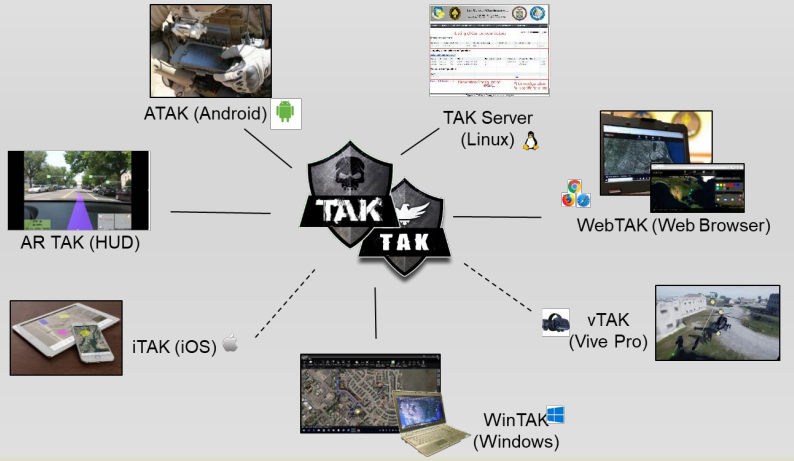
- TAK is a line of Map-Based, Situational Awareness (SA) Software Applications across multiple platforms to include Android, iOS, Windows, Linux and HTML, that provides Tactical Capabilities for Military and Federal Government operations.
- Extensible plugin architecture that allows enhanced capabilities for specific mission sets (Direct Action, Combat Advising, Law Enforcement, Protection Operations, Boarder Security, Disaster Response).

***TAK is a software development platform – not a software product***

## Capabilities/Plug-ins

- Map Rendering/Imagery Support
- ISR (Rover) Tools with VDL
- Tactical Chat
- SADL/Link-16 Support
- Jumpmaster Tools (HALO/HAHO)
- Route Planning and Navigation Tools
- UAV Control (Asset and Payload)
- Tactical Survey Tools
- Range and Bearing
- Radio Controls incl: Wave Relay, TrellisWare, Harris SA
- Mode (simple on/off), Most Rover VDL (SIR, TRE, Rover 6, etc)

## Family of Software




***All share the same core - unique but interoperable***

## Variants of TAK Product Lines

**Public Release (PR)**
*ATAK Only

**What is it?**
A publically releasable version of the TAK Product lines

**Who uses it?**
Public individuals for public uses

**Distribution Channels:**
Publically hosted

**Capabilities:**
Share and receive information from other variants

**Restrictions:**
Not Plugin Capable

**Civil Use (CIV)**

**What is it?**
A distribution controlled but fully-releasable version of the TAK Product lines

**Who uses it?**
First Responders, Licensed Commercial Developers

**Distribution Channels:**
Approved, Government Hosted Sites, Direct Commercial Sales (DCS)

**Capabilities:**
Base capability plus Civil Use Plugins Only

**Restrictions:**
No ITAR capabilities

**Government Use (GOV)**

**What is it?**
ITAR restricted version of the TAK Product lines

**Who uses it?**
USG entities and Foreign Government

**Distribution Channels:**
Approved, Government Hosted Sites; DCS

**Capabilities:**
Base capability plus CIV and GOV Plugins

**Restrictions:**
No MIL Sensitive capabilities

**Military (MIL)**

**What is it?**
Military Sensitive version of the TAK Product lines

**Who uses it?**
US and Foreign Military

**Distribution Channels:**
Approved, Government Hosted Sites

**Capabilities:**
Base capability plus CIV and MIL Plugins

**Restrictions:**
Only releasable to MIL units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Distribution Statement A: Approved for public release. Distribution is unlimited.

# Portfolio Questions



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# The Software Acquisition Dilemma

AKA -> “COL Weizer’s Stream of Unfiltered Conscience”



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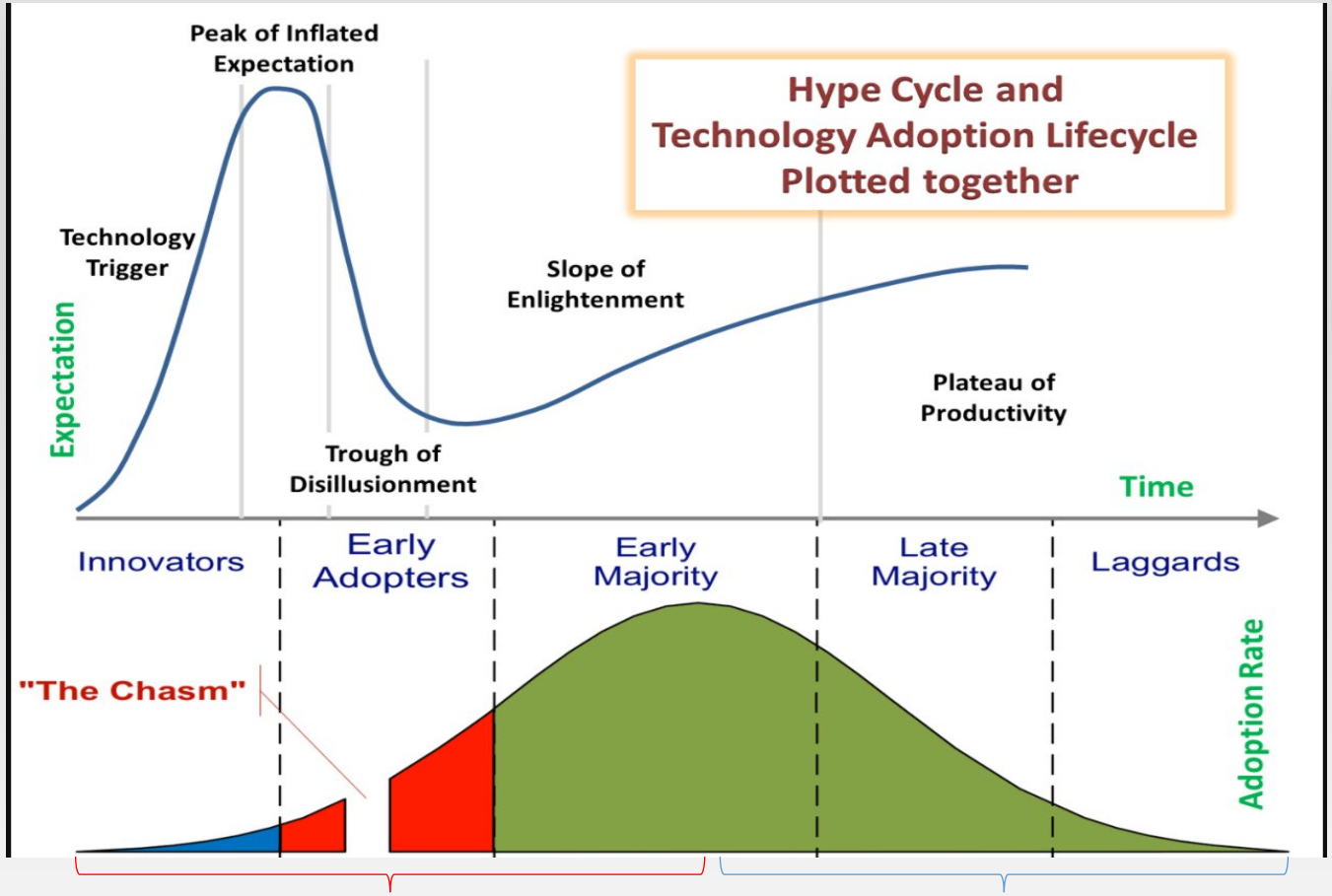
# The Industry Development Decision Cycle

## Differentiation -> Commodity




**Differentiation**

- Cost -> High
- Price -> High
- Profit -> High
- Capabilities -> Unique

**Commodity**

- Cost -> Low
- Price -> Low
- Profit -> Low
- Capabilities -> Common



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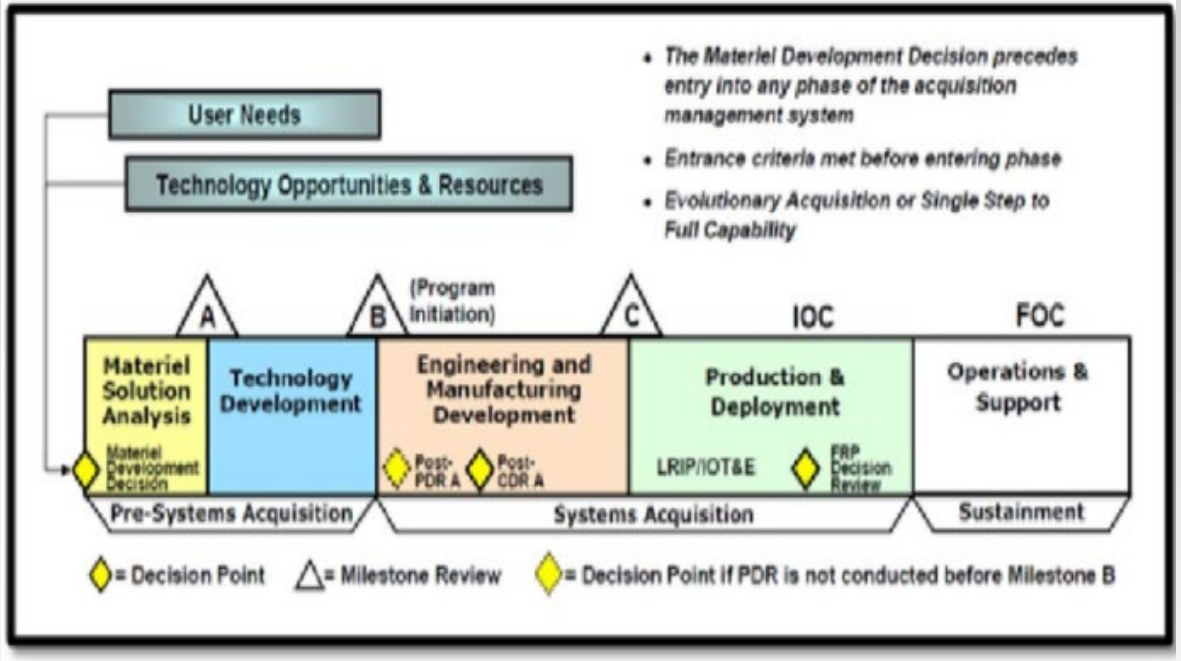
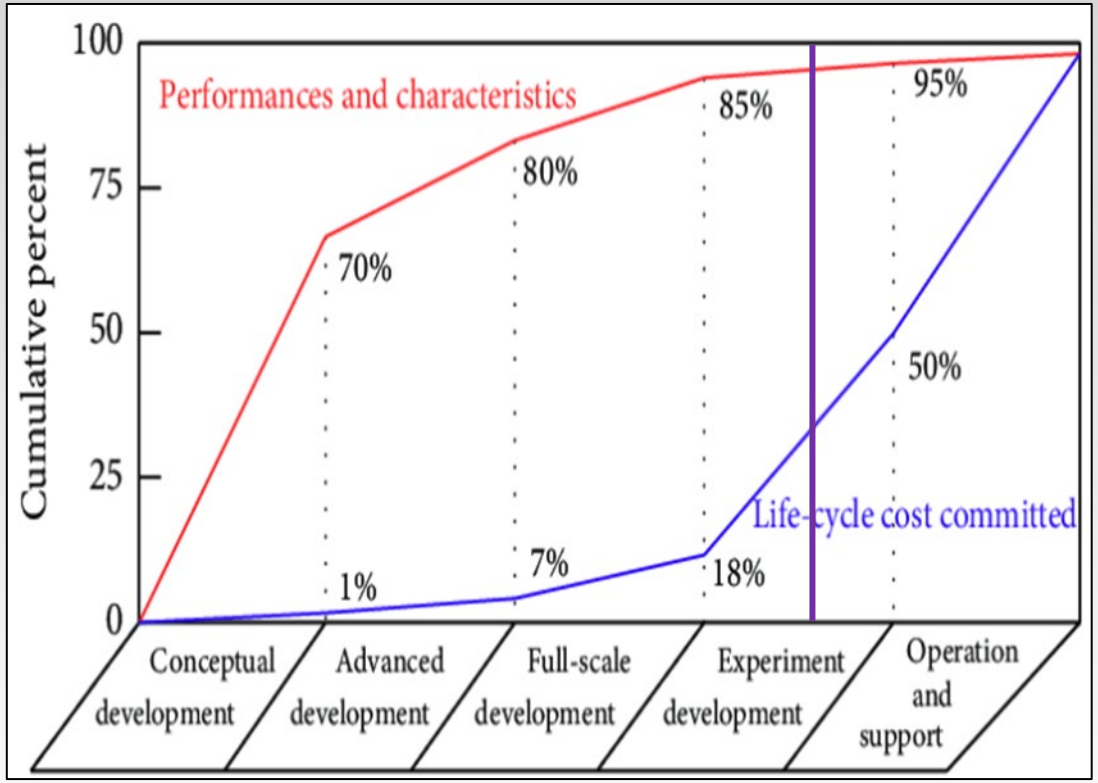
# DoD Materiel Development Process

## Traditional Linear "Waterfall" Process




## This is What Success Looks Like



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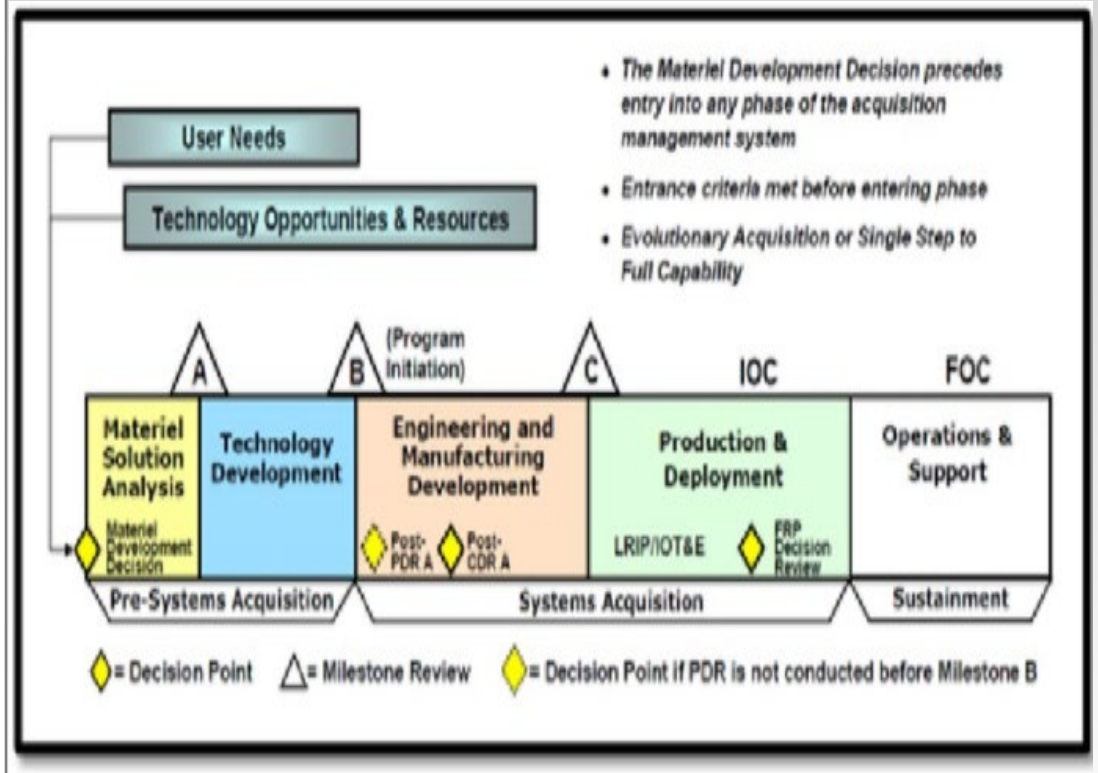
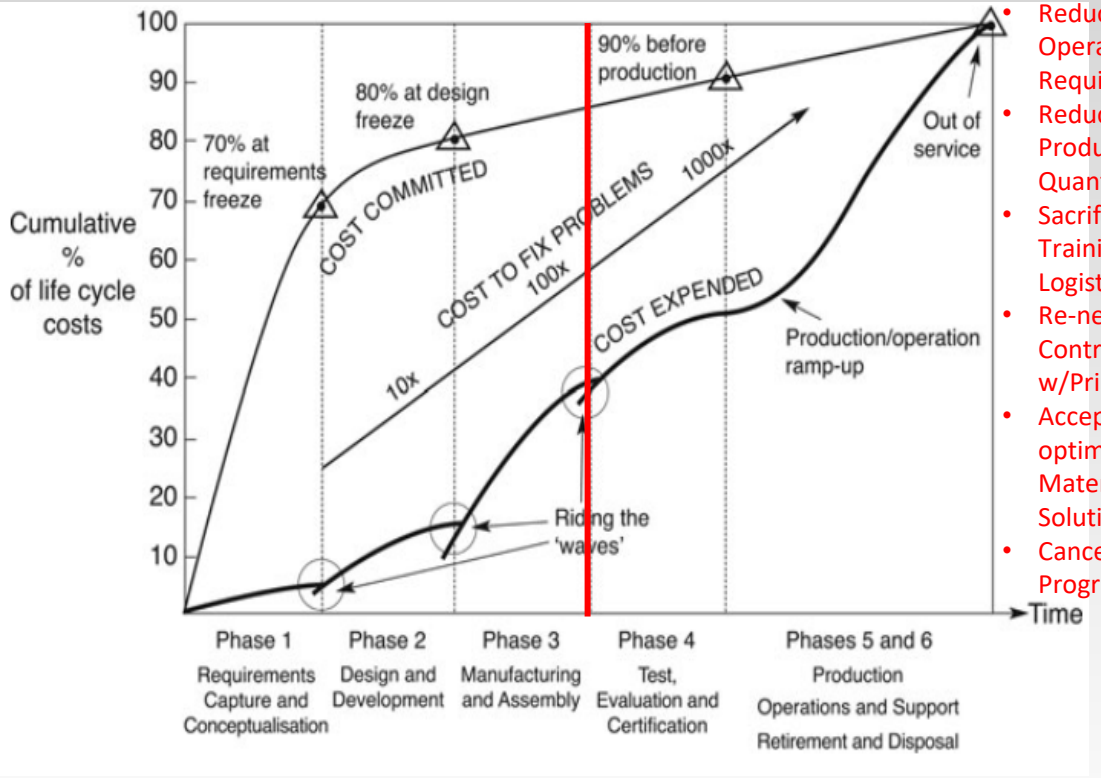
# DoD Materiel Development Process

## Traditional Linear "Waterfall" Process




## This is What Reality Looks Like

Unaffordable -> Re-baseline




- Reduce Operational Requirements
- Reduce Production Quantities
- Sacrifice Training & Logistics
- Re-negotiate Contract w/Prime
- Accept Sub-optimal Materiel Solution
- Cancel Program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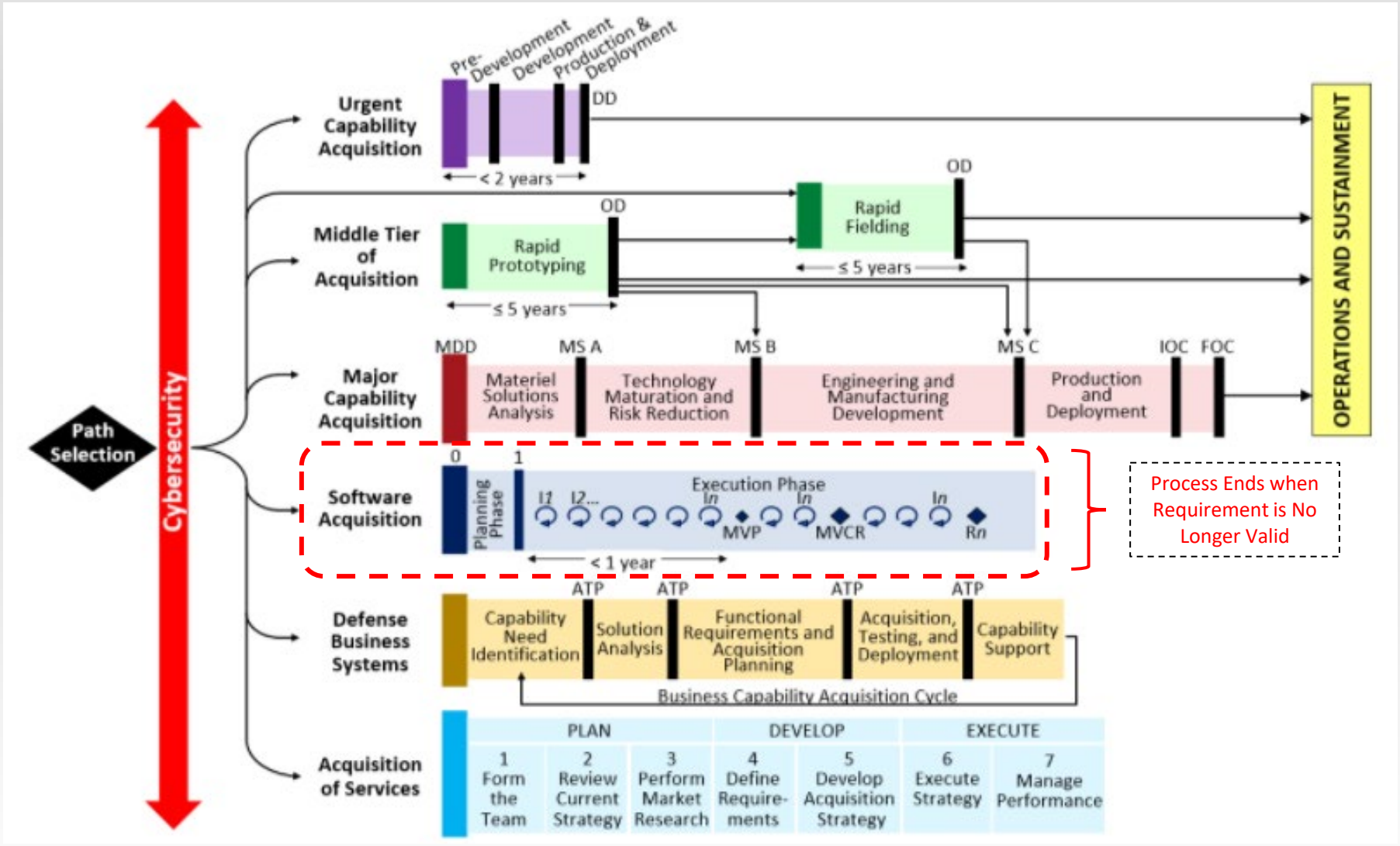
# New DoDI 5000.87 -> Software Acquisition Pathway



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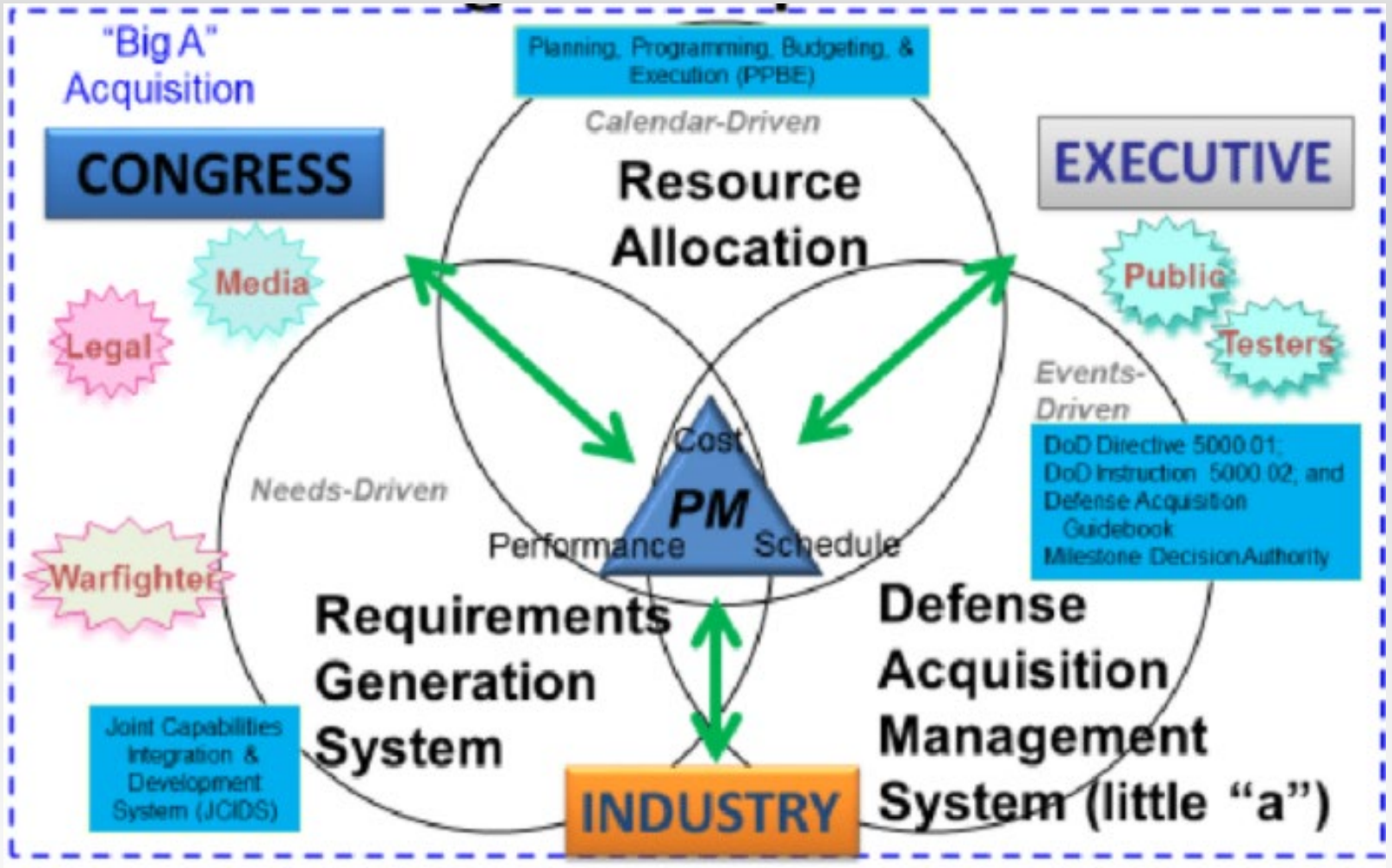
# Big "A" Defense Acquisition





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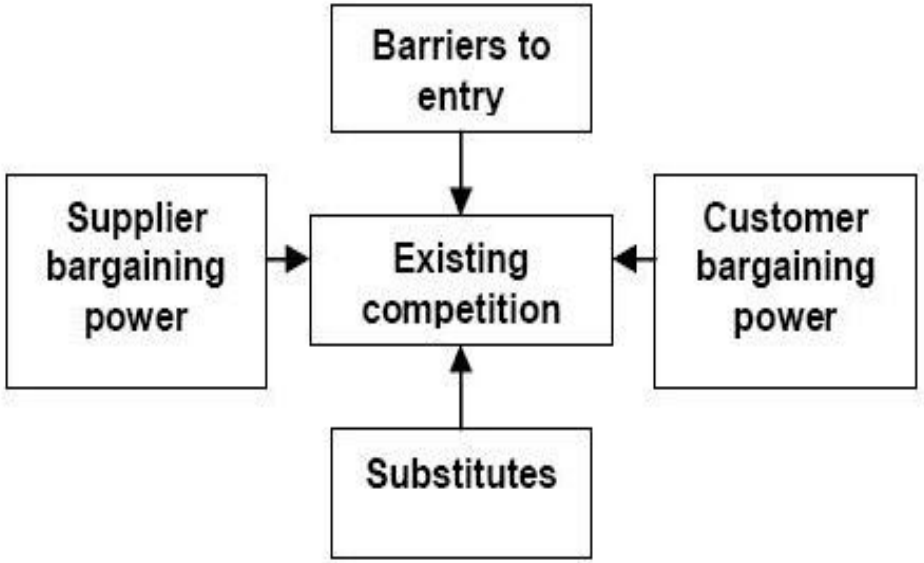
# How Do We Provide Information Dominance at the Speed of Relevance to the SOF Warfighter?

## Is this a Make versus Buy Decision?

- Development efforts are not timely
- Exquisite capabilities are costly to acquire and costly to maintain
- DoD does not have a comparative advantage in this space

## What Would Michael Porter Say?

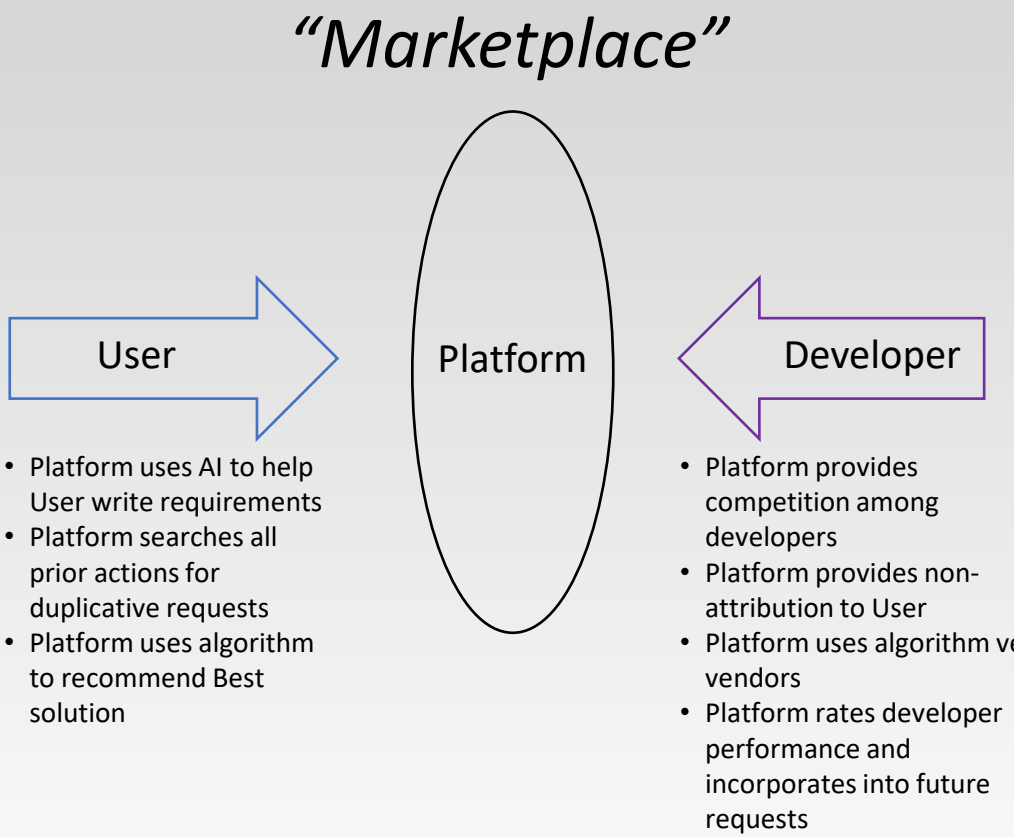


# Is There a Model We Can Use to Shape Our Strategy?

## Metrics

- Controls Cost Growth
- Capabilities Improve Over Time
- Reduces Communication Nodes Between End-User and Developer
- Avoids Vendor Lock
- Automates Tasks to the Greatest Extent
- Follows Commercial Best Practices/Standards

## Government Managed / Vendor Operated





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# Final Questions

**POINT OF CONTACT**

**USSOCOM SOF AT&L, Engage SOF (eSOF)**
**(813) 826-9482**



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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Spencer Baker,** Director, Acquisition Agility

**SOFWERX**

SOF AT&L



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# SOFWERX Value to Gov & Non-Traditional Industry

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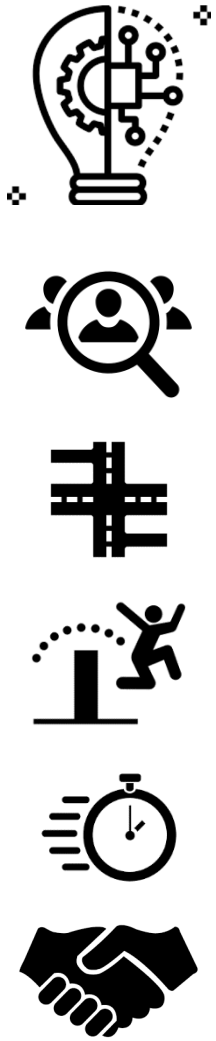
- Ideation Sessions & Collaboration
- Prize Challenges, Prototyping, Experimentation, Combat Evals
- Fast and Flexible Agent
- Commercial Non-FAR Sub-Awards
- Off-Base Access
- Honest Broker



## VALUE

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- Pacing Tech Gains & Threats
- High Iterative Cycles, Low Cost
- Better Informed And Quality Decision Making
- Low Barriers to Entry for Industry
- Accelerate Entry into Acquisition Cycles
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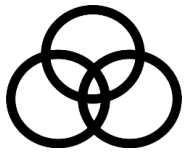
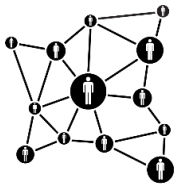
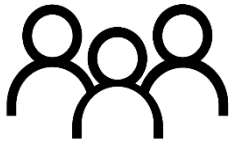
# SOFWERX Pathways



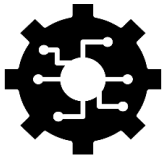
**Problem Curation & Acquisition Strategy**



**Ecosystem Trove**



**Capability Collaboration for Technologies & Solutions**



**Capability Assessments**

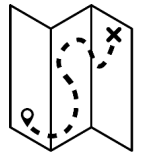
**Prize Challenges Hack-a-Thons**

**Rapid Prototyping**

**Tech Sprints & Experimentation**

**Combat Evaluations**

**Collaborative Project Orders**



**Transition Pathway**

**Network Building**

Problem Statements
Technology Strategies
Information/Ideas/Contacts

**Problem Validation**

Preliminary Designs
Concept Prototypes
Feasibility Assessments

**Solution Validation**

Concept Prototypes
Operational Assessments
Test Data

**Solution Delivery**



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# SOFWERX

- **In September 2015, USSOCOM and DEFENSEWERX established a Partnership Intermediary Agreement (PIA) under USC Title 15.**
- **Charter: Create and maintain a platform to accelerate delivery of innovative capabilities to USSOCOM and facilitate capability refinement thru exploration, experimentation, and assessment of promising technology**
- **SOFWERX has operationalized the charter into three separate areas:**
  - **Discovery: The SOF Ecosystem** - Explore diverse approaches to extend the SOF competitive advantage
  - **Engagement: Collaborative Events** - Deliberate collisions between USSOCOM and external innovation partners
  - **Acceleration: Impacts & Outcomes** - Increasing the velocity and volume of technology delivery to SOF to ensure supremacy


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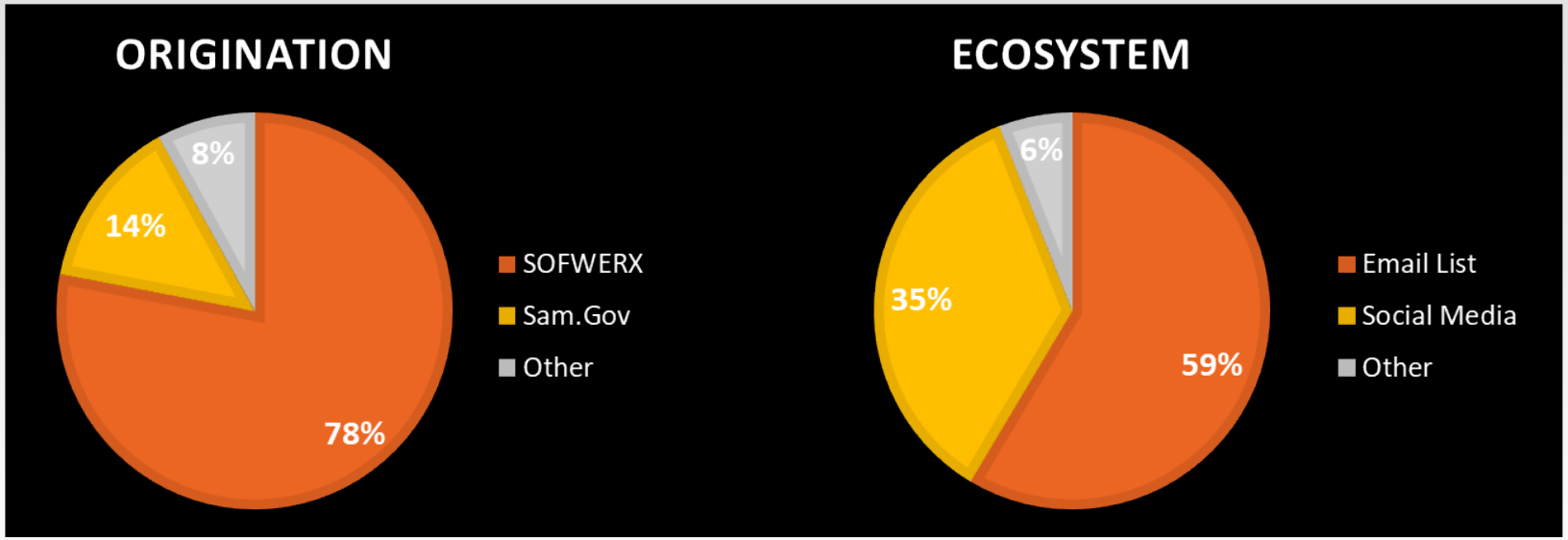
# Discovery

*The SOF Ecosystem: Explore and evaluate previously inaccessible technological approaches to extend the SOF competitive advantage*

- **SOFWERX is a neutral, non-profit that facilitates and executes technology discovery to solve USSOCOM Warfighter challenges**
- **The robust SOFWERX ecosystem, with 50k+ members, includes: USSOCOM, Interagency Partners, Academia, Interns, National Laboratories, and Non-Traditionals**
- **SOFWERX conducts industry/market research to discover and attract innovative capabilities**





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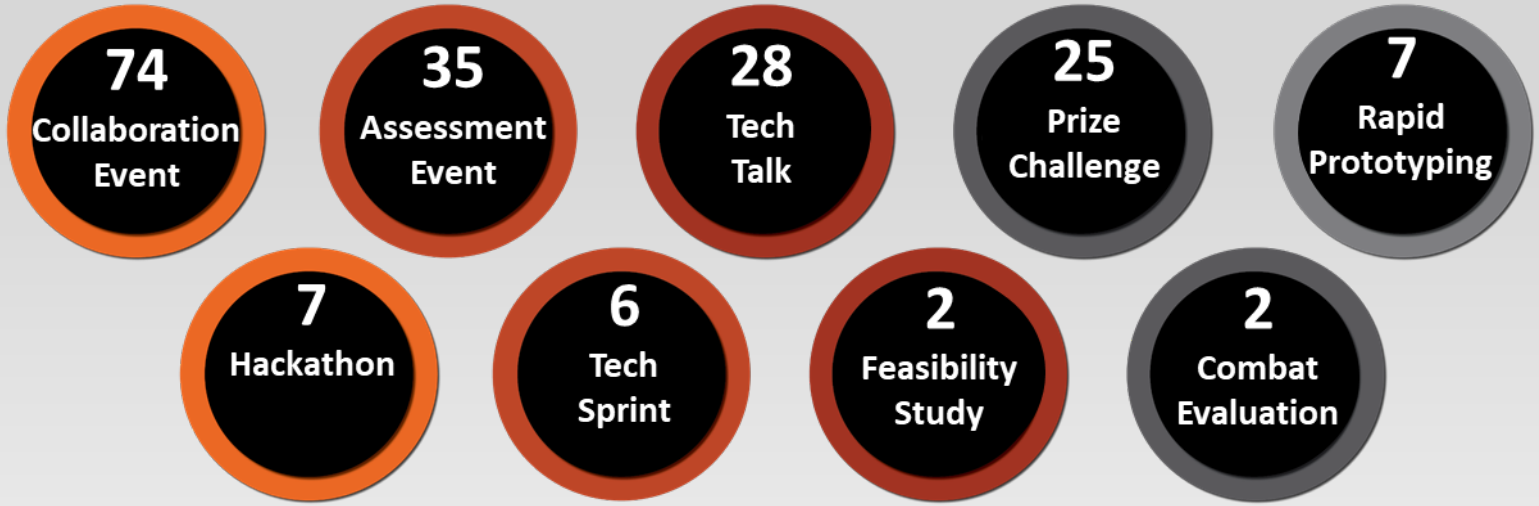
# Engagement

*SOFWERX Events: Deliberate collisions between USSOCOM and external innovation partners*

- **SOFWERX has facilitated 238 operator-focused projects and nearly 200 events**




- **In May 2020, SOFWERX launched Tech Tuesday, a forum for innovators to present transformational technologies to USSOCOM and other Government partners.**
  - **612 Government personnel in ecosystem**
  - **623 technologies submitted**
  - **206 presented to users and tech stakeholders**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# Acceleration

*Outcomes: Increasing the velocity and volume of technology delivery to SOF to ensure supremacy*

- **SWX has contracted $30,697,288 through Purchase Orders and B2B Agreements**
- **Typical timeline for each challenge conducted through SOFWERX is 60-90 days from kick-off to event execution**
- **SWX has completed 238 projects to advance technologies to the Warfighter**
- **Small Business Innovation Research (SBIR) Program leveraging the SWX Ecosystem**

| Metrics | Historical SOCOM Actuals | Pilot Actuals /Projections | Improvement |
|---|---|---|---|
| Offers Received | 19 | 39 | 205% |
| Phase I Contract Time | 102 Days | 22 Days | 78% |
| Phase II Contract Time | 105 Days | 20 Days | 81% |
| Phase I to Prototype Delivery | 40.5 Months | 14.5 Months | 64% |


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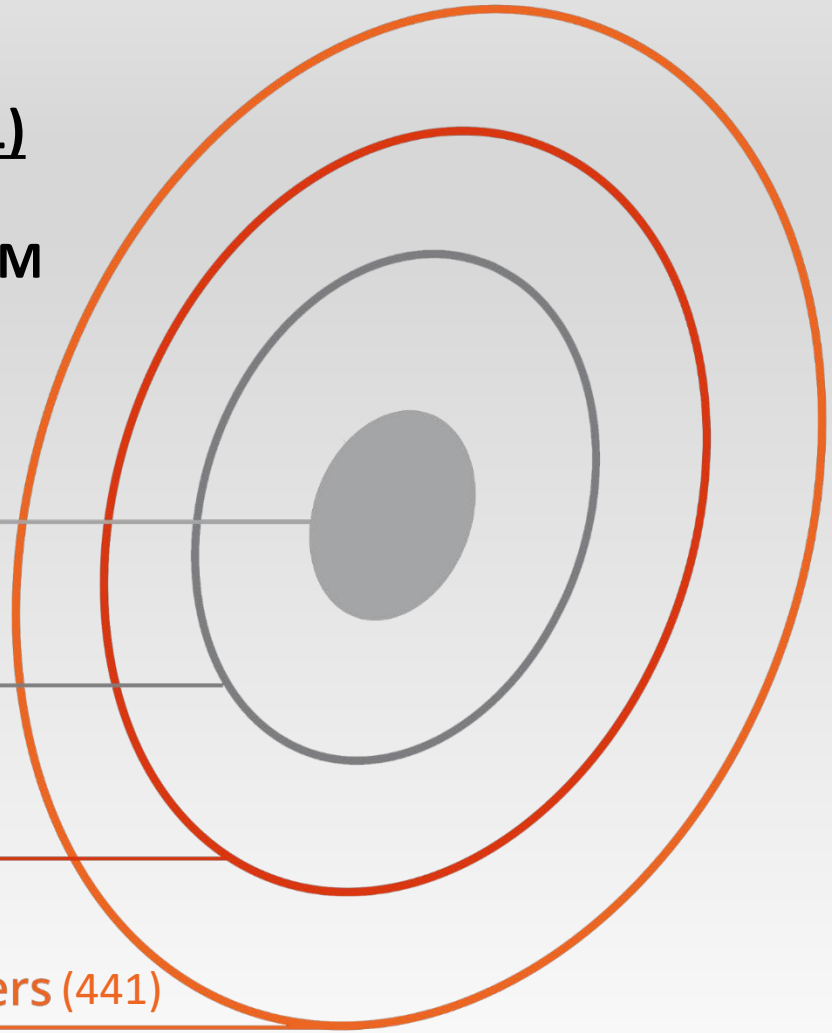
# Impacts

## Collaborative Project Orders (51)

- **FY21: 23 valued at $9.3M**
- **Cumulative: 51 valued at $70.6M**



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# STEM in Action

- Intern Program
  - Academic/Collegiate Intern support is provided through USF
  - For FY20/21, 43 academic interns from 14 different schools supported SOFWERX efforts
  - Each intern works up to 20 hrs/week during fall/spring semester and up to 30 hrs/week during the summer semester on approved projects.
- Elementary/Middle/High School Engagement
  - Support clubs or kickstart new STEM initiatives
  - Provide education and mentorship to explore career pathways
  - Create customized activities to demonstrate/showcase innovation processes

# Get Involved with SOFWERX

- Join the Ecosystem (sofwerx.org)
- Join the Tech Tuesday Ecosystem (sofwerx.org/techtuesday)
- Participate in events as SMEs (events.sofwerx.org)
- USSOCOM: Bring SOFWERX a Warfighter challenge (sofwerx.org/request)
- Innovators: Submit technologies to events and Tech Tuesday (events.sofwerx.org / sofwerx.org/techtuesday)


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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Jim Smith,** Acquisition Executive

SOF AT&L



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# Agile SOF Operations

## REQUIRE AGILE ACQUISITION SUPPORT

SOF will need operational **agility** across the spectrum of Crisis Response, Counterterrorism, Competition and Conflict

SOF acquisition must be **equally agile**

The strengths that have made SOF acquisition successful over the last 20 years **may not be the same** that assure success going forward

We're building proficiency in **multiple acquisition strategies and pathways** to support SOF Operators

We **need** industry and academia to **partner** on our capability gaps with the same **agility**



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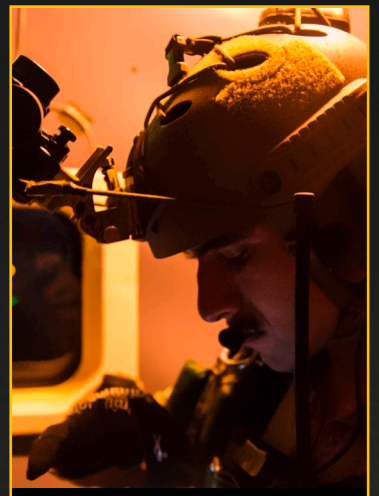
# Technology Focus Areas

INNOVATE FOR TODAY & TOMORROW



## NEXT GENERATION ISR

**Find, Fix, Exploit and Analyze…**

- Faster and Improved Accuracy
- All Domains—Air, Space, Maritime, Ground, and Cyber
- Processing and Exploitation at the Edge
- Access to Non-permissive Environments
  - Responsive Space-Based Capabilities
  - Small Unmanned Air/Ground/Maritime Systems
  - Sensor Fusion

**S&T, PEO FW, SR**

## NEXT GENERATION MOBILITY

- Faster and Improved Accuracy
- All Domains—Air, Space, Maritime, Ground, and Cyber
- Processing and Exploitation at the Edge
- Access to Non-permissive Environments
  - Responsive Space-Based Capabilities
  - Small Unmanned Air/Ground/Maritime Systems
  - Sensor Fusion

**S&T, PEO FW, M, RW, SW**

## PRECISION FIRES AND EFFECTS

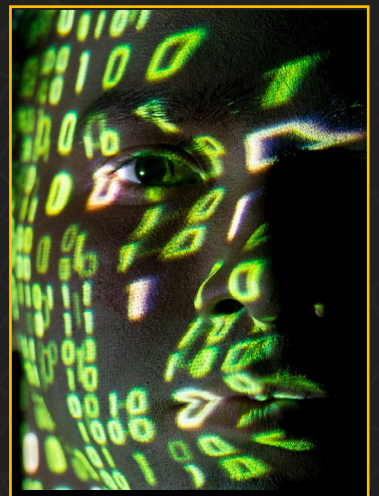
- Armed Overwatch
- Multi-launch Platform (Air, Maritime, Land—Vehicles and Man Portable)
- Loitering Munitions
- Increased Ranges
- Precision Strike
- Low Collateral/ Call off Target
- Counter Improvised Explosive Device
- Counter Unmanned Aerial System
- Electro Magnetic Effects
- Information Operations Effects

**S&T, PEO FW, SW, C4, SDA**

## BIO-TECHNOLOGY

- Human Systems Integration Enhanced Performance, Rest, and Recovery
- Wearable Physiological Monitoring Systems Austere Life-saving Equipment
- Improved Cognition and Decision Making

**S&T, PEO SW**



## HYPER ENABLED OPERATOR

- Computing at the Edge
- Connectivity Anywhere with Anyone
- Embedded Multimodal Data Discovery
- Machine-assisted Decision Making
- Automatically Discover, Know, Anticipate, Collaborate
- Supported by an Architecture (Data, Application, Presentation, Communication) Optimized for the Operator Environment

**S&T, PEO SW**

## DATA AND NETWORKS

**Mission Command:**

- Enable Effective SOF Command and Control
- Suite of Tools, Systems, Applications, Data Sources and Standards Interoperable Across the SOF Environment
- Common Operating Picture will allow Globally Collaborative C2 and Fuse SOF Joint Function Activities into a Single Visualization

**S&T, PEO C4, SDA**



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STIPL

S&T INTEGRATED PRIORITY LIST

## SPECIAL COMMUNICATIONS

Resilient, survivable, federated networks and information ecosystems critical for successful execution of SOF missions.

## TAILORABLE LETHALITY

Significant increases in precision effects and combat lethality to deliver small unit dominance.

## ELECTRONIC WARFARE (EW)

Offensive EW and Cyber effects that can enable or execute collaborative non-kinetic/kinetic effects.

## HUMAN PERFORMANCE OPTIMIZATION

Novel means to monitor in real time, while safely improving/increasing the SOF operator's physical and cognitive abilities.

## DATA ENABLED SOF

Advances in artificial intelligence/machine learning (AI/ML) and edge computing techniques to enable data accessibility, advanced processing and analysis, and dissemination in contested/disconnected operating environments.
Advance SOF effectiveness through flexible autonomy, reduced operator cognitive loading, and timely actionable insight to tactical decision making.



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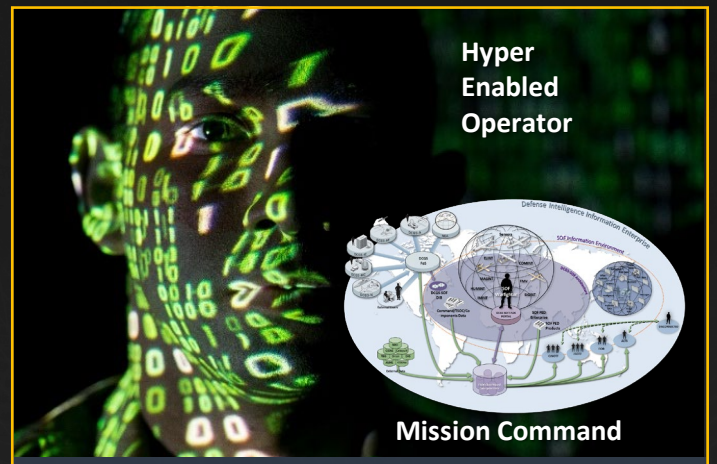
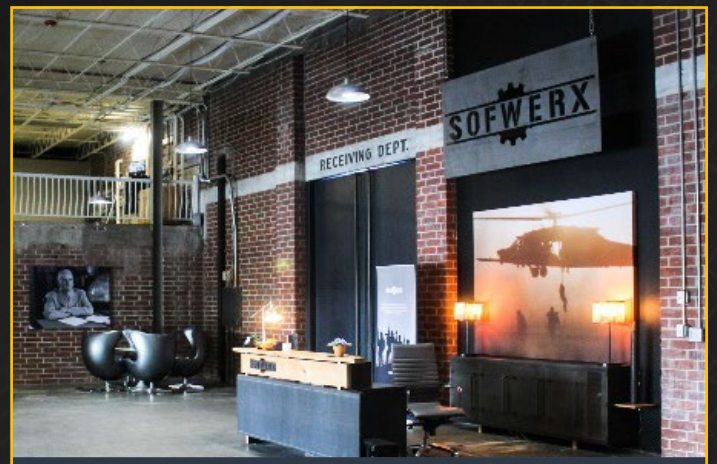
# Innovate Process
## FOR FUTURE THREATS




*First use in* **FY20**

**COMMERCIAL SOLUTIONS OPENING**




**50,000** *Members of the Ecosystem*

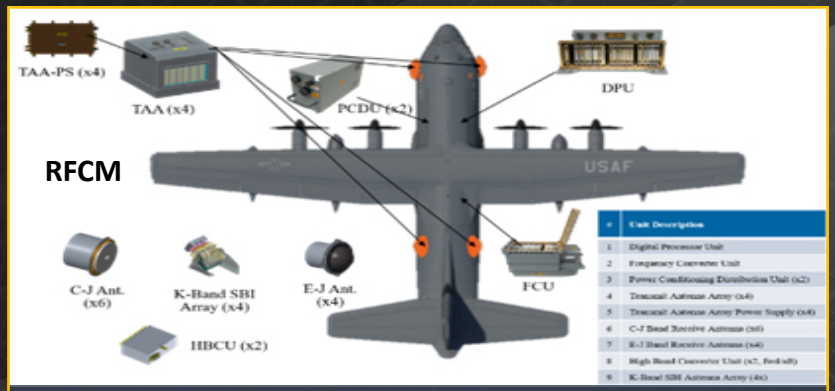
**PARTNERSHIP INTERMEDIARY AGREEMENT**

**1st Fielded MTA** *in DoD*

**MIDDLE TIER ACQUISITION**

**200%** *Greater Participation* | **60%** *Faster to Prototype*

**2020 NDAA SECTION 851**




**2** *in 2018* | **7** *in 2019* | **40** *in 2020*

**OTHER TRANSACTION AGREEMENTS**



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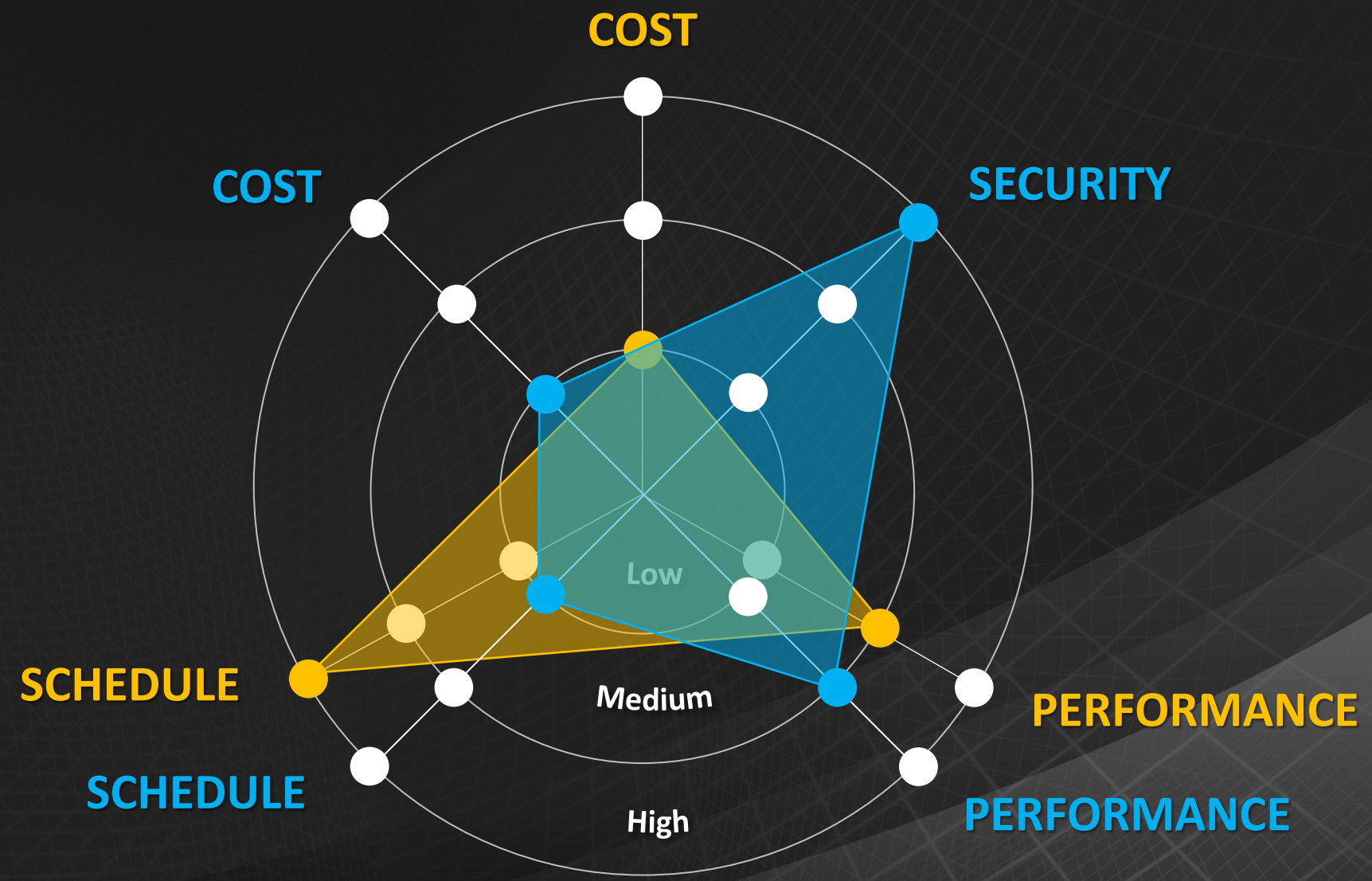
# Acquisition Tradespace

## HOW ARE YOU CONSTRAINED?



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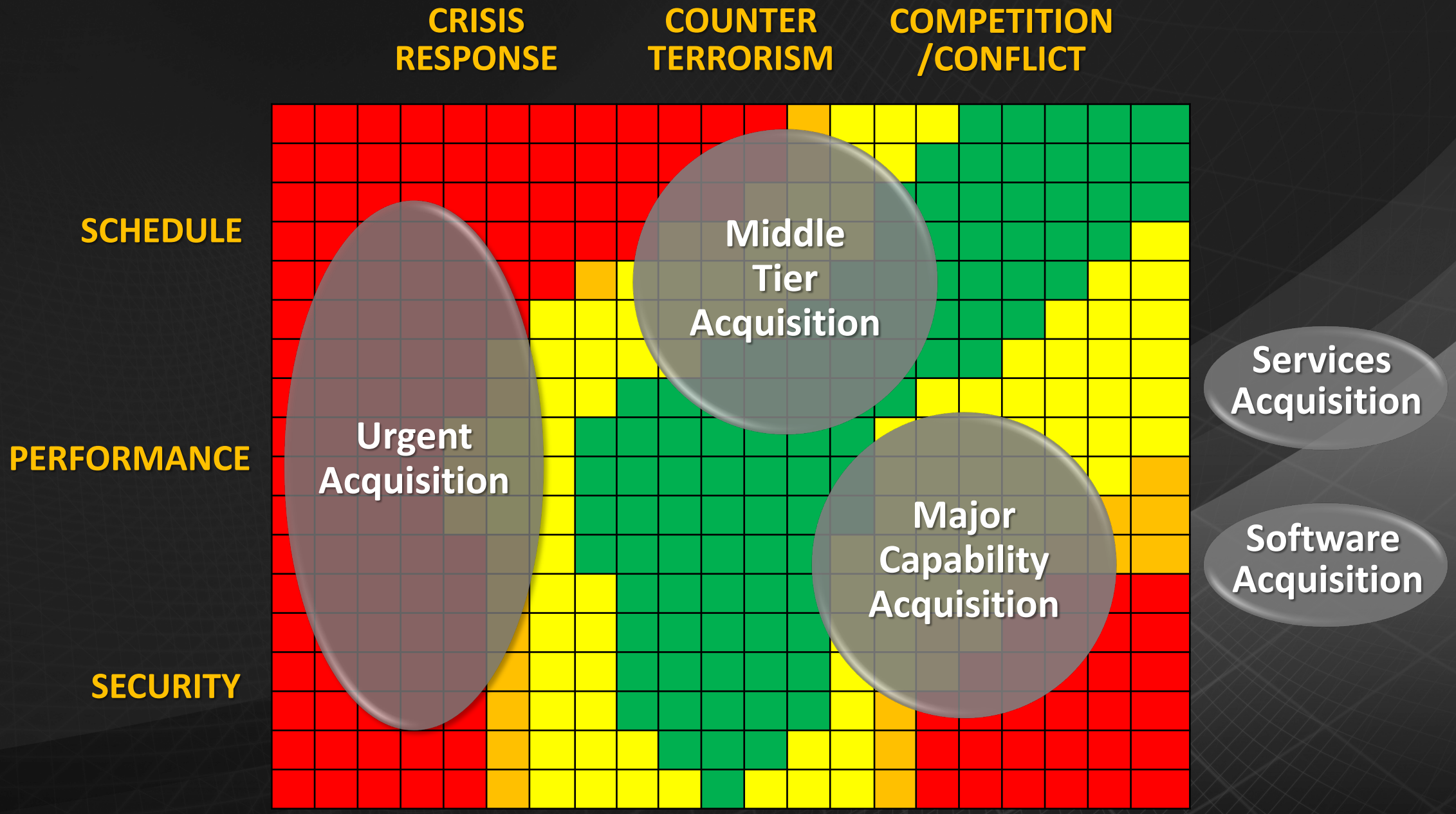
# Flexible and Adaptive

## GOT ACQUISITION STRATEGIES?



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# SOF Technology Network

OF OPERATORS, INDUSTRY, LABS & ACADEMIA

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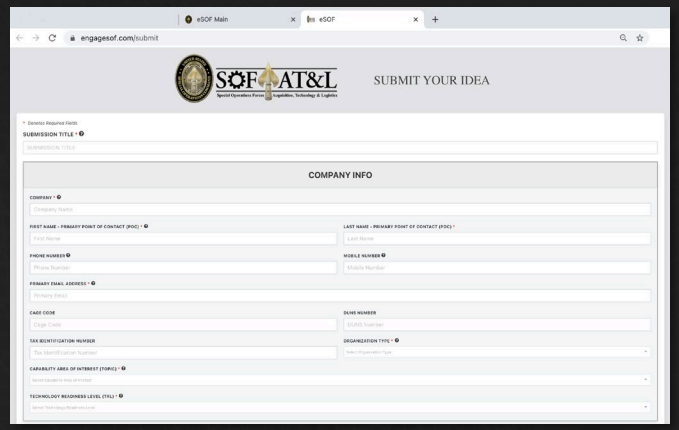
# Partnering WITH SOF AT&L

## SOF AT&L ACQUISITION EXECUTIVE VENDOR ENGAGEMENTS

**67**

***115.5*** HOURS




**www.socom.mil/SOF-ATL/Pages/eSOF-main.aspx**

## eSOF METRICS

**225** *Total Submissions Through eSOF App Since Inception*

*Average Response Time (Days)* **38**

**www.Vulcan-SOF.com**

## 2020 SUBMISSIONS

**4,700**

***9,000*** *Assessments*

**www.sofwerx.org**

## SOFWERX METRIX

**22** *Agreements*

**38** *Projects*

***5,000*** *New Members in the Ecosystem*

## SMALL BUSINESS FORUMS

**6** *Forums*

**371** *Participants*

TE 20-1

**205**

TE 20-2

**226** *Projected Participants*



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# Doing Business with USSOCOM

## LOWERING BARRIERS

SOF AT&L
Special Operations Forces Acquisition, Technology & Logistics

Search this site

SOF AT&L | About Us | Doing Business | BAA & RFI Announcement Board | Programs | SOFIC | SBIR Program

**Recent**

Welcome to USSOCOM

United States Special Operations Command (USSOCOM) develops and fields technology to some of the most demanding customers in the world including Green Berets, Navy SEALs, Marine Raiders, and Air Force Special Tactics Units. Our warfighters execute demanding missions of strategic importance. This means that we have some extremely tough problems to solve.

Join the SOF Ecosystem and share your ideas

Do you have a solution that could potentially support the Warfighter? Submit your idea/capability and receive feedback from the USSOCOM team. We want to hear from you! Provide your contact information and areas of interest so we can learn more about your field expertise.

**www.socom.mil/SOF-ATL/Pages/Doing-Business-With-USSOCOM.aspx**

Opportunities

- Explore USSOCOM Capability/Technology Areas of Interest, and help us solve hard problems
- Engage in Research/Research and Development (R/R&D) through the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) highly competitive programs
- Visit SOFWERX, USSOCOM innovation hub, to solve warfighter challenges through collaboration, ideation, events, and rapid prototyping
- Join the SOFWERX ecosystem and be the first to hear of opportunities to collaborate and innovate for Special Operations Forces
- Check out upcoming efforts to solve challenging Warfighter problems such as Collaboration and Assessment Events, Tech Sprints, Tech Talks, and Prize Challenges
- Submit for the opportunity to virtually pitch your cutting-edge technologies to USSOCOM and other Government attendees during weekly Tech Tuesday sessions
- Discover internships and additional STEM opportunities at SOFWERX



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# Small Business ENGAGEMENTS

## SMALL BUSINESS

**460**

- Second Most dollars ever awarded – **$1.006B**

## SMALL DISADVANTAGED BUSINESS

**197**

- Second Most dollars ever awarded **– $447M**
- 7th straight year of exceeding goal

## WOMEN OWNED SMALL BUSINESS

**125**

- Second Most dollars ever awarded **– $350M**
- 8th straight year of exceeding goal

## SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS

**142**

- 8th straight year of exceeding goal

UNCLASSIFIED

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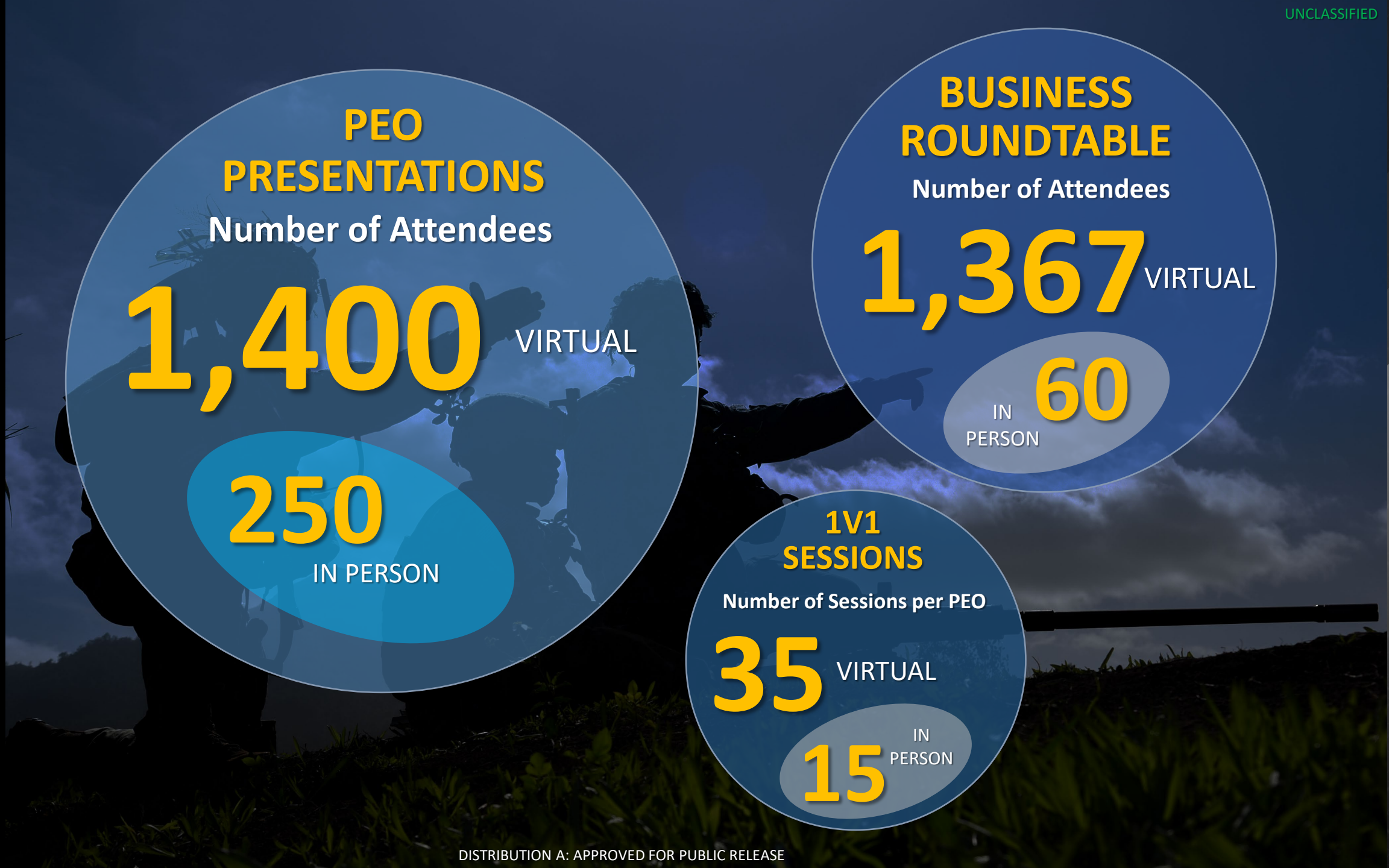
# Value of Virtual



## PEO PRESENTATIONS

**Number of Attendees**

**1,400** VIRTUAL

**250** IN PERSON

## BUSINESS ROUNDTABLE

**Number of Attendees**

**1,367** VIRTUAL

**60** IN PERSON

## 1V1 SESSIONS

**Number of Sessions per PEO**

**35** VIRTUAL

**15** IN PERSON



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UNCLASSIFIED

# Some Metrics

TRENDING DOWNWARDS

**40** *Minutes looking for parking*
IN PERSON vs.
*Minutes finding my spot on the couch* **10** VIRTUAL

*Beverages consumed at the socials*
**10** IN PERSON vs.
*What do I have in the fridge?*
VIRTUAL

*Steps at the TCC*
**30,000** IN PERSON vs.
**10** *Steps to the fridge*
VIRTUAL

**100** *Free pens* IN PERSON vs.
*Where's that pen from the insurance salesman* **1** VIRTUAL

**20** *Dozen Noelle Marchbanks cookies* IN PERSON vs.
*Can she ship?*
VIRTUAL

**5** *Lbs. of sweat loss* IN PERSON vs.
*Lbs. gain from take out orders* **3** VIRTUAL

UNCLASSIFIED

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# Navigating the Week

## TUESDAY

- 0900 – 0910
  NDIA Intro + Mayor Intro Video Proclamation
- 0910 – 1010
  S&T Overview/Q&A
- 1030 – 1130
  PEO SOF Digital Applications Overview/Q&A
- 1145 – 1245
  USSOCOM Commanding General Keynote Address/Q&A
- 1300 – 1400
  PEO C4 Overview/Q&A
- 1415 – 1515
  SOF AT&L Acquisition Executive Keynote Address/Q&A
- 1545 – 1645
  PEO Services Overview/Q&A
- 1700 – 1755
  Senior Industry Executive Forum (SOF AT&L AE, Dir Procurement, SB Advisor)
- 1700 – 1800
  Media Roundtable: S&T, SDA, Special Reconnaissance, and C4
- 0900 – 1645
  PEO 1v1s *(Registration Required)*

## WEDNESDAY

- 0900 – 1000
  PEO Rotary Wing Overview/Q&A
- 1015 – 1115
  Under Secretary of Defense for Acquisition & Sustainment Address (Ms. Stacy Cummings)
- 1145 – 1245
  PEO Fixed Wing Overview/Q&A
- 1300 – 1400
  Component Commanders Panel
- 1415 – 1515
  PEO Maritime Overview/Q&A
- 1540 – 1640
  PEO SOF Warrior Overview/Q&A
- 1650 – 1750
  Cybersecurity Maturity Model Certification (CISO (A) ASD(A) Ms. Katie Arrington)
- 1700 – 1800
  Media Roundtable: Rotary Wing, Fixed Wing, Maritime, SOF Warrior
- 0900 – 1645
  PEO 1v1s *(Registration Required)*

## THURSDAY

- 0900 – 1000
  PEO SOFSA Overview/Q&A
- 1015 – 1115
  Chief Information Officer Panel (Dr. Lisa Costa)
- 1145 – 1215
  USSOCOM CG/Microsoft CEO Fireside Chat (Satya Nadella)
- 1300 – 1400
  Chief Data Officer Keynote (Mr. Thomas Kenney)
- 1400 – 1700
  PEO 1v1s *(Registration Required)*

## FRIDAY

- 0800 – 1145
  PEO 1v1s



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Transparent

# WORK WITH US

www.socom.mil/SOF-ATL
@SOAExec

Linkedin.com/in/ussocom-ae

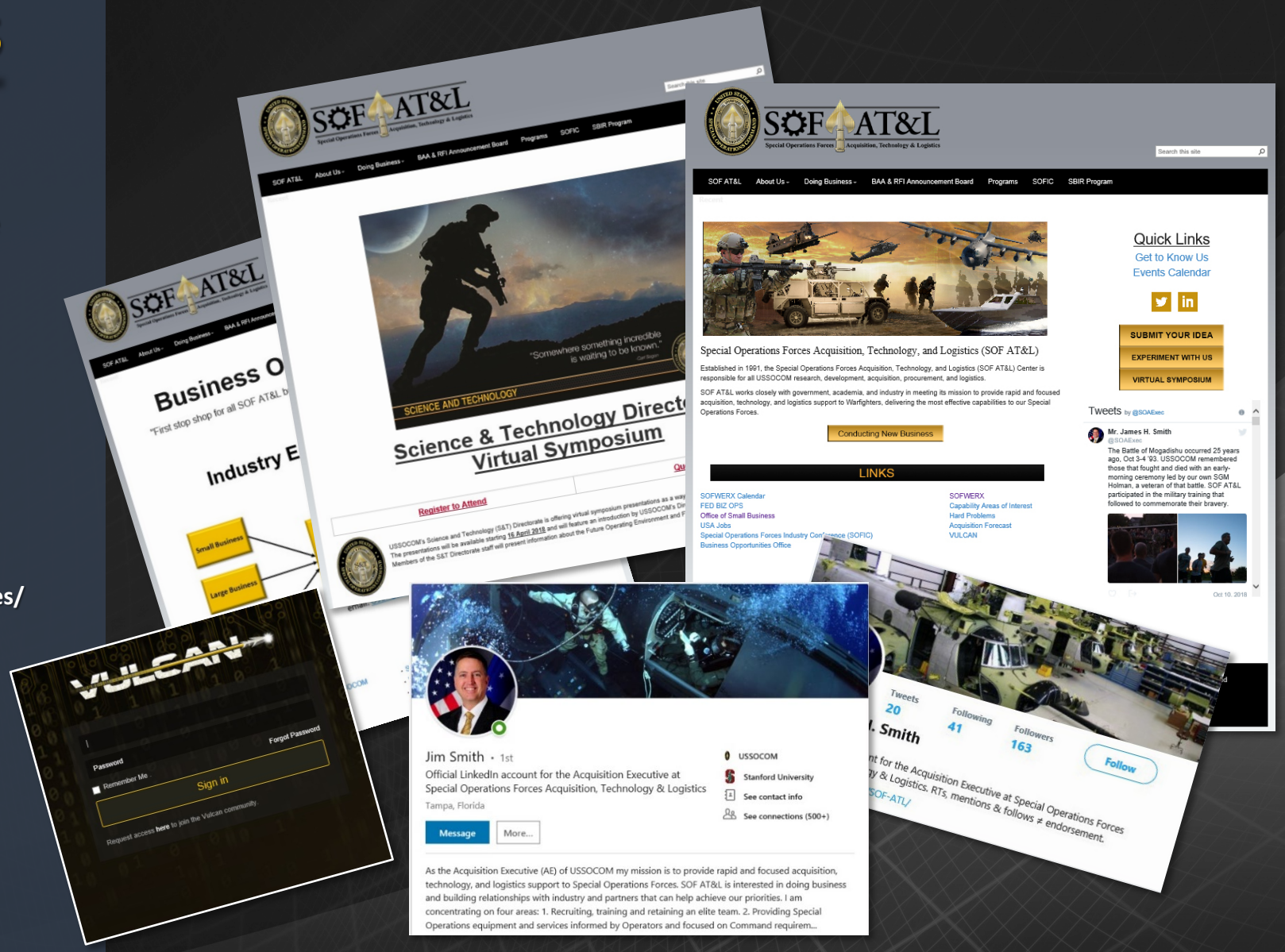
## Small Business Help
Christopher Harrington
Christopher.Harrington@socom.mil
813.826.9475

## Submitting Ideas
Shelvin Watts
eSOF@socom.mil
https://www.socom.mil/SOF-ATL/Pages/eSOF-main.aspx
813.826.9482

## VULCAN
https://www.Vulcan-SOF.com

## SOFWERX
https://www.sofwerx.org

## Technical Experimentation
https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx




Videos will be available at https://www.socom.mil/SOF-ATL/Pages/sofic.aspx after the event



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# THANK YOU



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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**COL Joseph R. Blanton,** Program Executive Officer – SOFSA

**SPECIAL OPERATIONS FORCES SUPPORT ACTIVITY (SOFSA)**

SOF AT&L



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# Agenda

- Video
- Organization
- PEO SOFSA History
- SOF Support
- PM Expeditionary Support
- Enterprise
- Industry Opportunity


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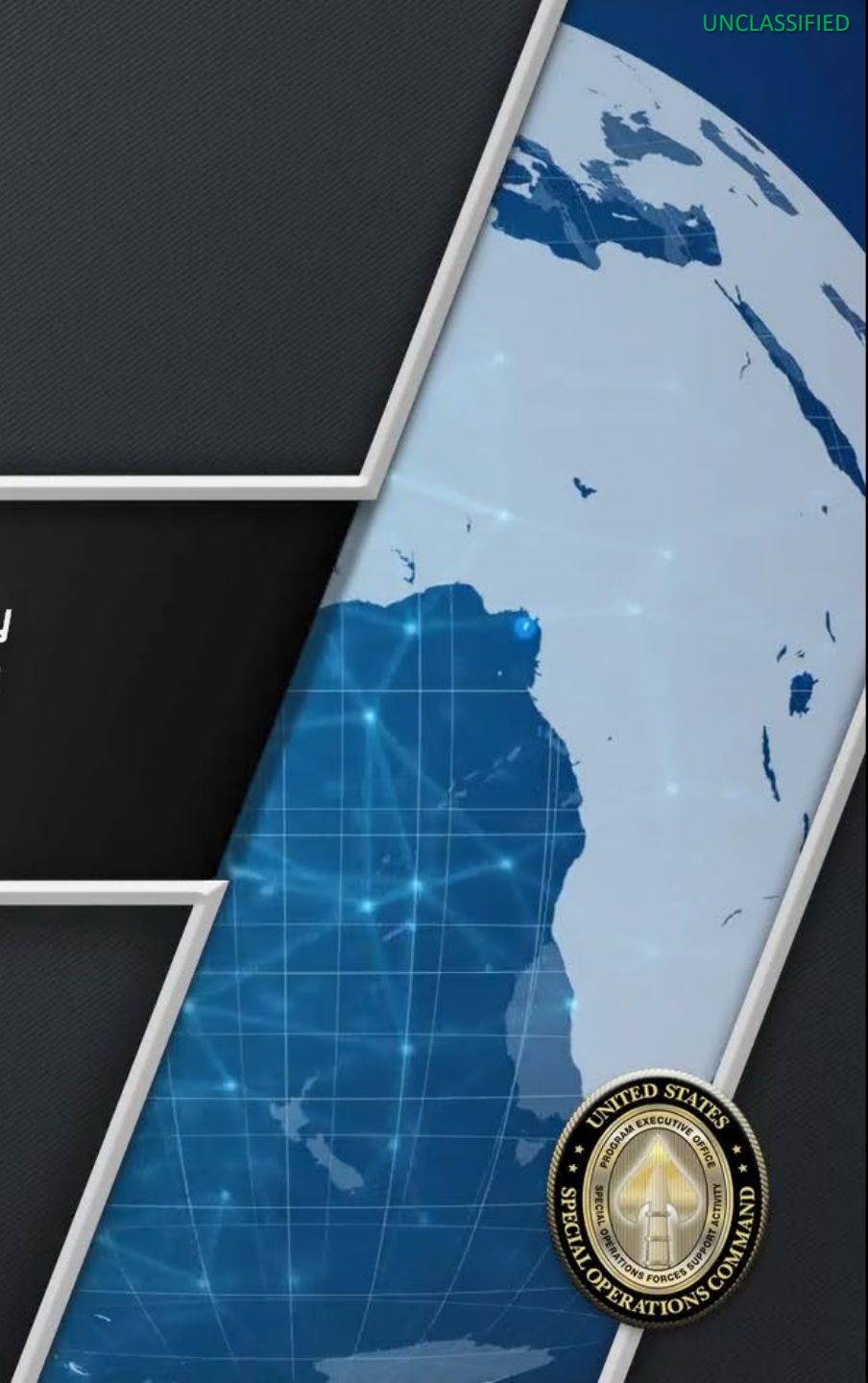
Program Executive Office Special Operations Forces Support Activity

# PEO SOFSA: OVERVIEW





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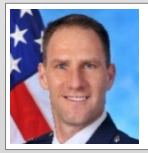
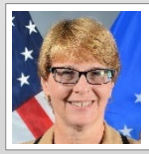
# Special Operations Forces
# Acquisition, Technology, & Logistics Organization

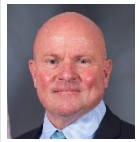
**ACQUISITION COMPTROLLER**
Tom Coburn



**PROCUREMENT**
Col Eric Obergfell



**SCIENCE & TECHNOLOGY**
Ms. Lisa Sanders



**ACQUISITION LOGISTICS**
Joe Carlson

**ACQUISITION AGILITY**
Spencer Baker

**PEO C4**
Command, Control, Communications, & Computers
Deb Woods

**PEO FIXED WING**
Col Ken Kuebler

**PEO MARITIME**
CAPT Randy Slaff

**PEO ROTARY WING**
Mr. Geoff Downer

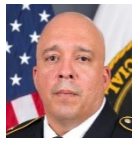
**PEO SOF WARRIOR**
COL Joel Babbitt

**PEO SOFSA**
Special Operations Forces Support Activity
COL Joseph Blanton

**PEO SR**
Special Reconnaissance
David Breede

**PEO SERVICES**
Ted Koufas

**PEO SDA**
SOF Digital Applications
COL Paul Weizer



**SENIOR ENLISTED LEADER**
SGM Jorge Otero

**DEPUTY DIRECTOR FOR ACQUISITION**
Mr. Bill Innes

**MILITARY DEPUTY**
COL Tony Wizner

**ACQUISITION EXECUTIVE**
Mr. Jim Smith



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# PEO SOFSA History

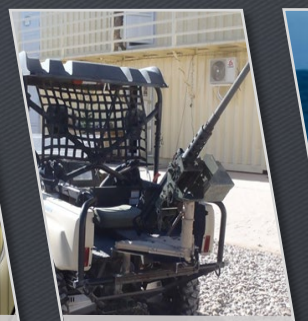
**USSOCOM Established**
**1987**

**160th Blackhawks 1st Modified at SOFSA**
**1992**

**1st JOS Requirement at SOFSA**
**2001**

**MH60M Production/ Integration Start**
**2007**

**SOFSA Established as PEO SOFSA**
**2010**



**1st MTRC Req. at SOFSA**
**2013**

**1st Maritime Req. at SOFSA**
**2015**

**MH60M Production Completed**
**2015**

**JOS Program in PEO SOFSA**
**2019**

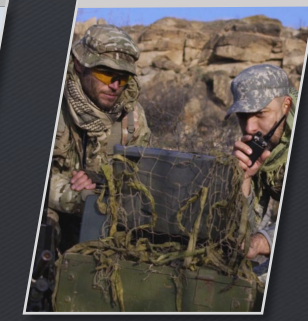
**1988**
SOFSA Established as GOCO at CECOM, Lexington, KY

**1995**
Little Birds Moved to SOFSA

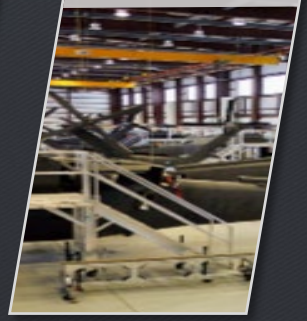
**2002**
First USASOC Unit Redistro Center Rqmt at SOFSA

**2013**
First AC130J Requirement at PEO SOFSA

**2014**
First 12XX Req. at SOFSA



**2015**
Pass Back Maint. at 160th FTCKY



**2018**
MELB Consolidated at Bluegrass Station

**2020**
PM Expeditionary Support



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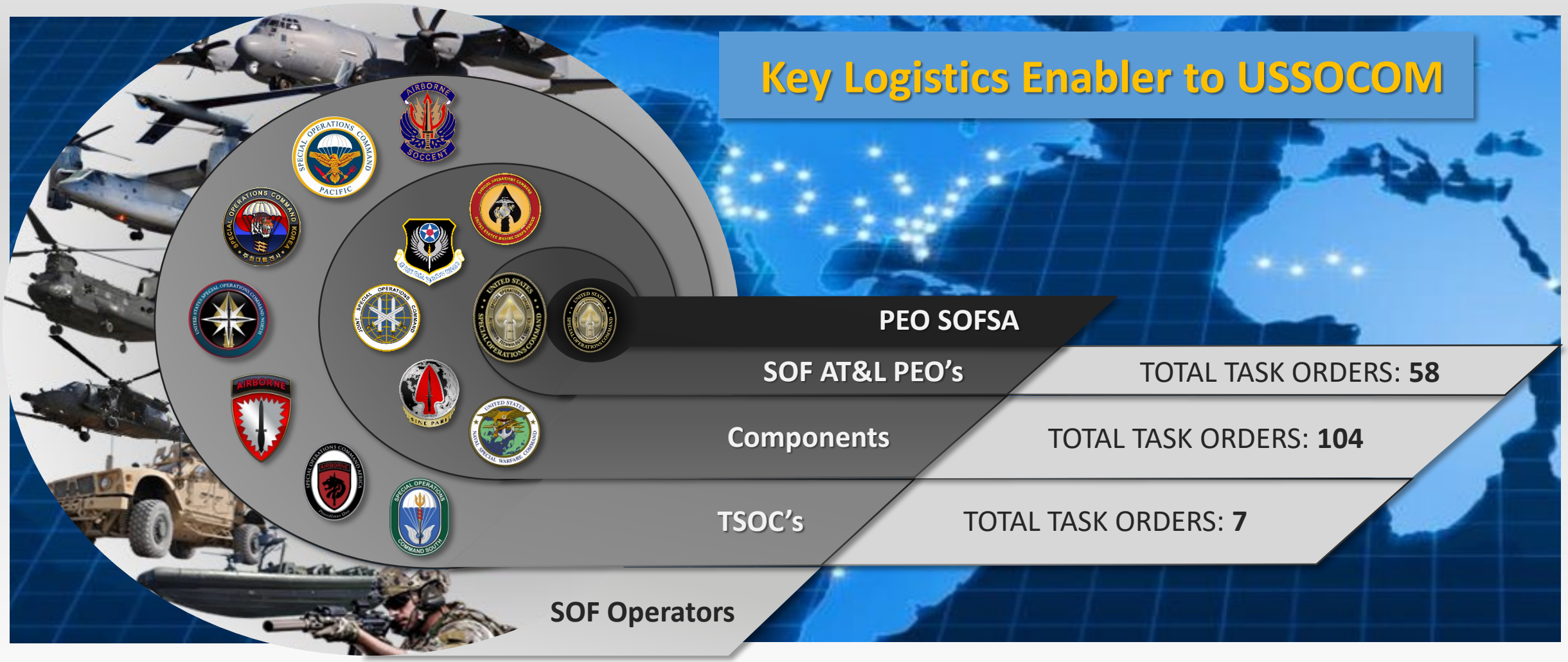
# PEO SOFSA Support to SOF



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# Program Executive Office Special Operations Forces Support Activity (SOFSA)

## ROTARY WING

**PLATFORMS**
- MH-47Gs
- MH-60Ms
- AH/MH-6Ms
- Non-Standard
- Depot Level Maintenance

**SUPPORTING**
- PEO Rotary Wing

## SOF SYSTEMS

**EQUIPMENT**
- SOF Weapons
- SPEAR / Tactical Combat Casualty Care
- C4 / Electronic Countermeasures
- SRSE – Surveillance / Reconnaissance
- 12XX

**SUPPORTING**
- PEO SOF Warrior
- PEO C4
- PEO SR

## GROUND

**PLATFORMS**
- MATVs / MRAPs
- NSCVs
- MRZRs
- LTATVs
- GMV 1.1

**SUPPORTING**
- PEO SOF Warrior

## PEO SOFSA TEAM

**ON-SITE STAFF**
- Expeditionary Support PM
- Program Support
- Business Management
- Enterprise Management
- Finance
- Acquisition Attorney
- Strategic Plans
- DCAA
- DCMA
- Prime Contractor

## PEO SOFSA

**MISSION**

Enable Global SOF Operations Through Dedicated Life Cycle Sustainment

**VISION**

Trusted Experts for SOF Logistics & SOF Peculiar Modifications

**CORE COMPETENCIES**
1. Production & Integration
2. Streamline Design & Rapid Prototyping
3. Life Cycle Sustainment Activities

**PM-ES**
- JOS
- MTRC
- FUTURES

**SUPPORTING ALL USSOCOM**

## PEO SOFSA OPERATION

**ENTERPRISE**
- 2.7M sq. ft. of facilities
- Climate Controlled Storage
- Weapons Storage / Range
- Reverse Engineering
- Fabrication / 3D Printing
- Depot+ Aviation Capability
- Safety – Security – IT

**BUSINESS & FINANCE**
- 10YR $8B IDIQ
- 10 KO's - 1 Unlimited Warrant
- Accept All Funding Types

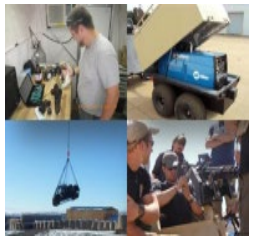
## FIXED WING

**PLATFORMS**
- AC/MC-130Js
- CV-22s
- MQ-9s
- CASA 212 , C-12
- C27Js
- UAS

**SUPPORTING**
- PEO Fixed Wing
- AFSOC
- USASOC (ARSOAC)

## EXPEDITIONARY SUPPORT PROGRAM OFFICE

**Mobile Technology Repair Complex (MTRC)**



**Joint Operational Stock (JOS)**

**Future Capability Development**

## MARITIME

**PLATFORMS / EQUIPMENT**
- **SURFACE**
  - Combat Craft Heavy
  - Combatant Craft Medium
  - Combatant Craft Assault
- **UNDERSEA**
  - S351
- **DIVE LOCKERS**

**SUPPORTING**
- PEO Maritime
- NSWC

# Joint Operational Stock - JOS

**JOS provides a centrally managed repository of Special Operations Peculiar (SO-P) equipment at PEO SOFSA, configured for rapid response to approved SOF Requirements.**

- **Temporary** Loans of **Mission Critical Equipment** to SOF Units in order to conduct training and contingency operations
- **Augments and Enhances** SOF Units' **organic operational capabilities**, requiring little or no additional training

# Mobile Technology Repair Complex - MTRC

## MISSION

MTRC provides the capabilities and processes to ***rapidly modify***, ***repair***, and ***fabricate*** SO-P equipment and facilities, at the ***point of need***, in order to bridge operational gaps and adapt to opposition or environment change.

## 13 MTRC TEAMS DEPLOYED GLOBALLY

## CAPABILITIES

***Point of Need*** engineering at austere or limited support locations.

- 1 USG Civilian Engineer + 1 SOF Technician.
- Specialized skills in the following:
  - **Engineering (CAD, 3D printing)**
  - **Welding, Machining, Advance Manufacturing**
  - **Carpentry / Electrical**
  - **Kydex & Sewing**

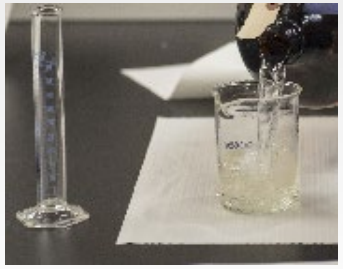
# Developmental Activities

- **USSOCOM Austere Welding Combat Evaluation (CV)**
- PM-ES, in Conjunction with Acquisition Agility, and SOFWERX conducted a CV Challenge to address an MTRC known operational deficiency with welding technologies employed by MTRC in support of SOF. The goal was to identify relatively mature welding systems/capabilities to reduce the number/types of welding systems from 5 to 3 or less systems per each MTRC Team location.

- **USSOCOM Austere 3D Printing**
- PM-ES, in coordination with SOFWERX, executed a Rapid Innovative Prototyping Series (RIPS) to find COTS 3D printers that could be designed/modified/optimized to meet the unique SOF requirements (i.e. size, weight, power, mobility, survivability, etc.) needed in support of USSOCOM SOF missions.

- **USSOCOM Power Distribution Panel (PDP)**
- PM-ES teamed with SOF AT&L S&T, LMCO and Highland Engineering to address an MTRC known operational deficiency with power distribution for MTRC COTS equipment. The PDP will take a generic 220v single phase input and split it up into multiple 110v and 220v outlets 200 amp transfer switch and 50, 30, and 20 amp breakers.

- **USSOCOM Portable Fuel Tester**
- PM-ES is working to refine customer requirements for a small, portable, testing kit that that can be easily stowed on small aviation platforms (MELB, etc.) and utilized by non-fuels personnel (92F / 2F) to ensure serviceability of non-DLA-E procured fuel supplies in austere locations.



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# PEO SOFSA Enterprise

## Logistics Operations

**$3.9B** Inventory and Processing
**87K** Receipts / **125K** issues Annually (FY20)

## Facility Management

**2.7M** square feet of PEO SOFSA leased.

## Environmental, Safety, and Health

Ground and aviation safety programs that comply with all applicable Federal, state, and local environmental, safety, and health laws, regulations, policies, and procedures.

## Security Management

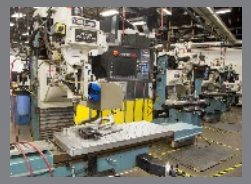
Information, personnel, and physical security, OPSEC, COMSEC, and Force Protection IAW DoD standards and guidance.

## IT Management

SIPR/NIPRnet operations for SOFSANet and Applications for SOF GLSS.

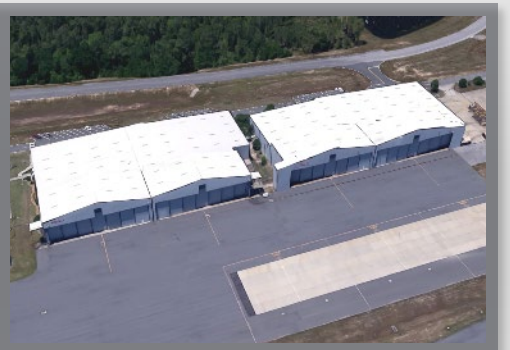
## Bluegrass Station

| | |
|---|---|
| Total Sq. Footage: | 2,432,516 |
| Administrative: | 277,971 |
| Production: | 584,632 |
| Flight Line Apron: | 0 |
| Warehousing: | 1,060, 673 |
| Outside Storage: | 509,240 |



## Crestview, FL

| | |
|---|---|
| Total Sq. Footage: | 314,000 |
| Administrative: | 24,000 |
| Production: | 96,000 |
| Flight Line Apron: | 194,000 |
| Warehousing: | 0 |
| Outside Storage: | 0 |



## Hill Ave., FWB, FL

| | |
|---|---|
| Total Sq. Footage: | 37,350 |
| Administrative: | 22,267 |
| Production: | 0 |
| Flight Line Apron: | 0 |
| Warehousing: | 15,083 |
| Outside Storage: | 0 |

## Totals

| | |
|---|---|
| Total Sq. Footage: | 2,783,866 |
| Administrative: | 324,238 |
| Production: | 680,632 |
| Flight Line Apron: | 194,000 |
| Warehousing: | 1,075,756 |
| Outside Storage: | 509,240 |

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# PEO SOFSA Enterprise & Facilities

## Logistics Operations

**$3.43B** – SOF Inventory
**87K** Receipts **/ 125K** Issues Annually

## Facility Management

**2.7M** square feet of PEO SOFSA leased space

## Environmental, Safety and Health

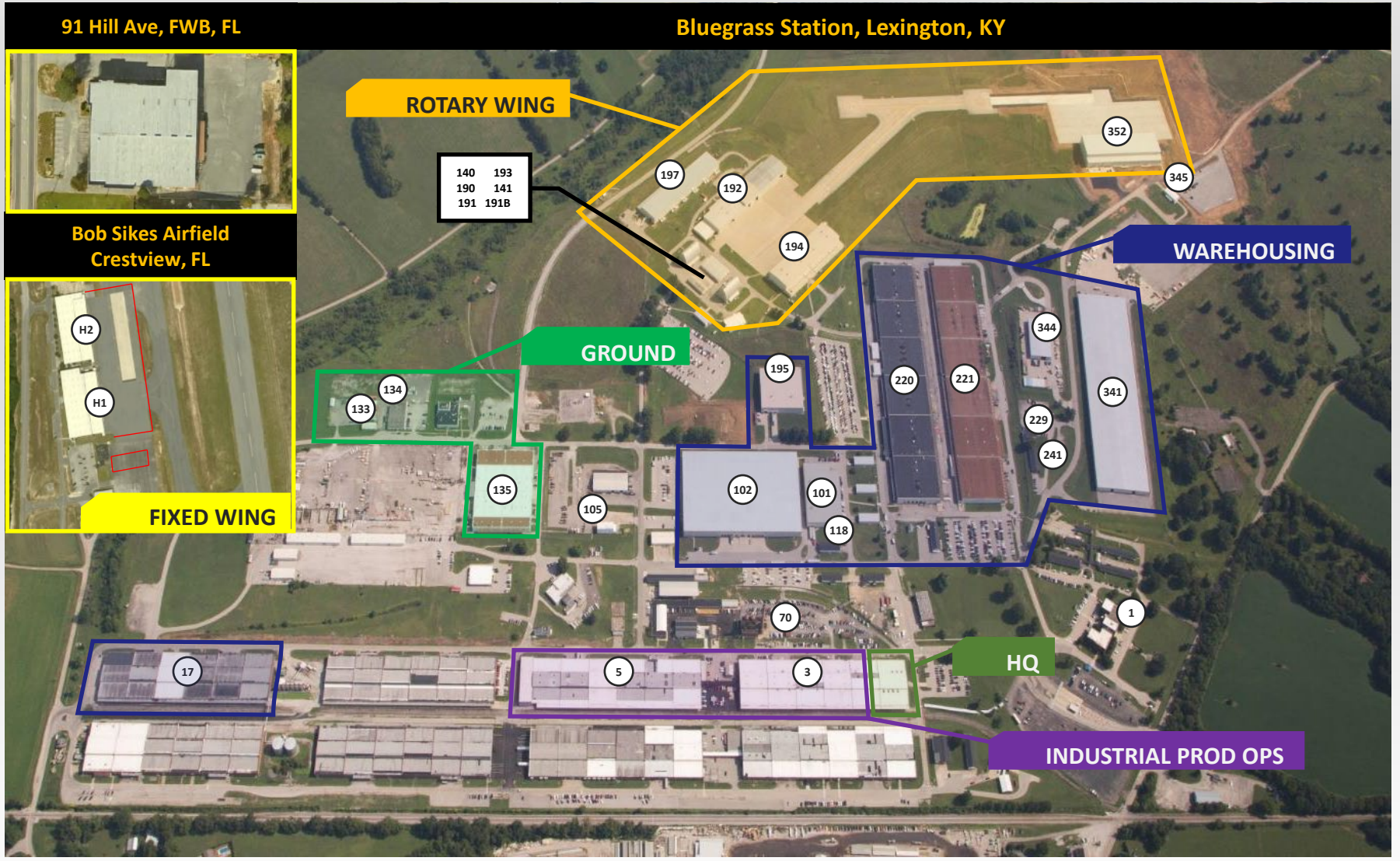
- Federal, State, and Local Environmental
- Ground and Aviation Safety Programs
- Health Regulations, Policies, and Procedures

## Security Management

- OPSEC / COMSEC
- Information, Personnel, and Physical Security
- Force Protection IAW DoD Standards

## IT Management

- SIPR/NIPR Operations
- Applications for Enterprise and SOF GLSS





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# PEO SOFSA SOF GLSS IDIQ Contract Facts

**Organization Environment: State Owned / USG Leased / Contractor Operated**

- PEO SOFSA management and oversight with USG / Contractor Staff including DCAA & DCMS Onsight
- Lockheed Martin performs Enterprise Operations
  - Provides 4,300+ employee workforce (Prime and Subcontractor Support)
  - Executes 200+ task orders per year

**Designed for Rapid Response to SOF Requirements**

- 10yr $8B  IDIQ – Pre-competed contract vehicle for SOF community
- Contract Allows users  responsive and flexible access to logistics support and services
  - Contract agility enables customers to achieve task order award within 10 days from receipt of RFP
  - Average 17 Day Turn-around on proposals – SOO to CEP
  - Global Logistics at the Speed-of-SOF

**Cost – Competitive Rate Structure / Low Overhead Performance**

- Skilled and dedicated workforce tailored to meet needs of SOF community


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# PEO SOFSA Global Logistics Reach

## USASOC

- JBLM, WA
- Moffett Field, CA
- Mesa, AZ
- Yuma, AZ
- Fort Carson, CO
- CPs Williams & Draper
- Fort Campbell, KY
- Fort Bliss, TX
- Fort Bragg, NC
- Birmingham, AL
- Hunter AAF, GA
- Fort Benning, GA
- Eglin AFB, FL

## AFSOC

- Cannon AFB
- Kirtland AFB
- Hurlburt Field, FL
- United Kingdom

## TSOC/SOTF

- Camp Smith, HI
- SOCOM/SOCCENT
- Homestead, FL
- Niger
- Chad
- Nigeria
- Cameroon
- Baumholder
- Stuttgart, Germany
- Croatia
- Syria
- Iraq
- Kuwait
- Qatar
- UAE
- Lebanon
- KSA
- Jordan
- Yemen
- Djibouti
- Somalia
- Tajikistan
- Afghanistan
- Okinawa
- Philippines

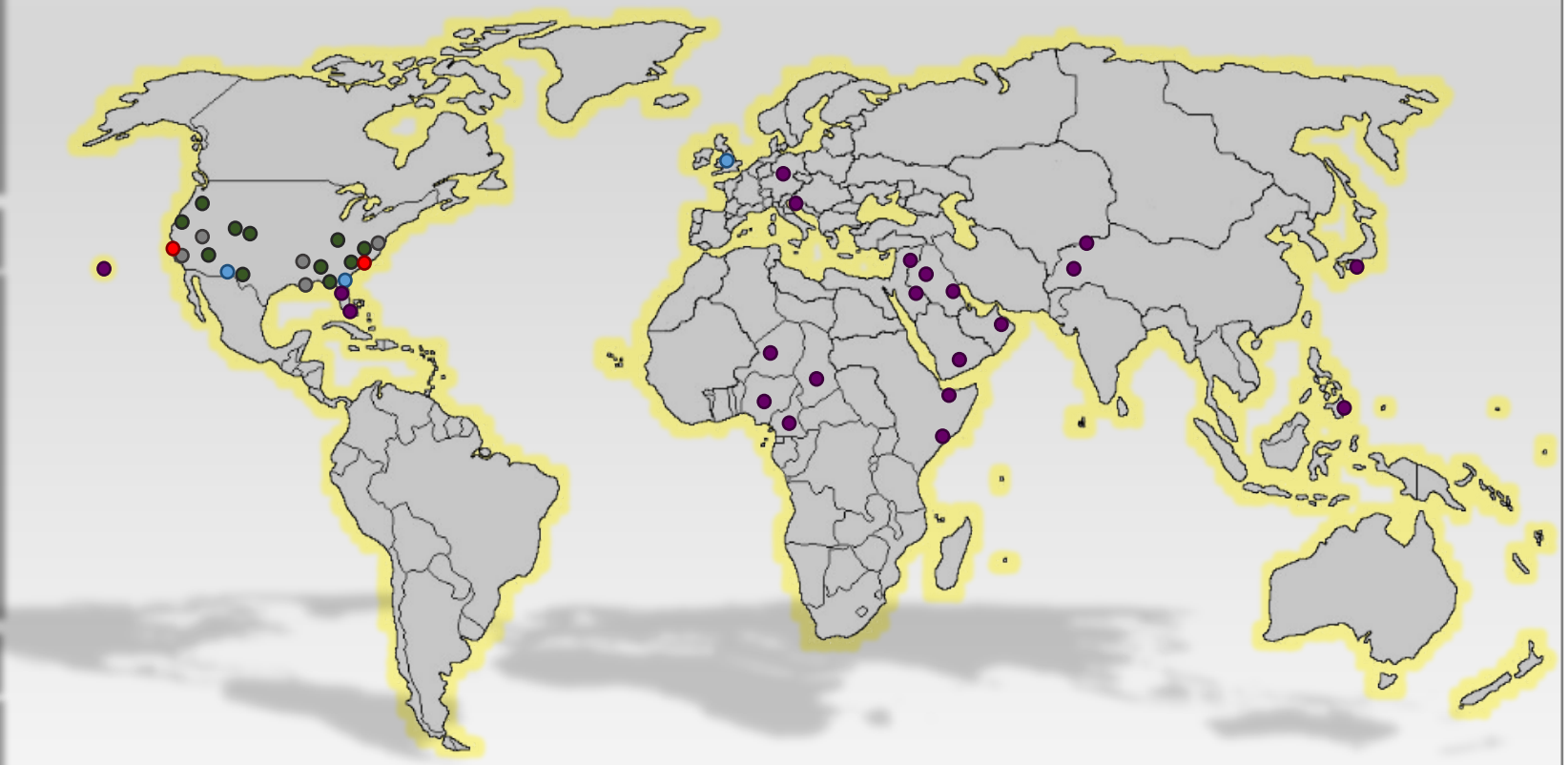
## NSWC

- Coronado, CA
- San Clemente, CA
- La Posta, CA
- Niland, CA
- Fallon, NV
- Fort Chaffee, AR
- Stennis, MS
- Fort Story, VA

## MARSOC

- Camp Pendleton, CA
- Camp Lejeune, NC

## Supporting Global SOF



## Deployed Field Reps: ~425 Average



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# Industry Opportunity

- **LM Interest: Additive Manufacturing Technologies with High Quality Production Rates**
  - Identify solutions to incorporate hardware that is manufactured utilizing additive processes that can be installed on product with short life cycle qualification processes.
- **LM Interest: Inventory Management Technologies that Increase Accuracy and Labor Hours**
  - Identify SOF compliant RF Technologies that will enable an enhanced inventory management approach eliminating manual counting and verification.
- **LM Interest: Digital Transformation**
  - Solutions that utilize agile technologies to increase speed and deliver value to the customer

    Business models that accelerate programs to deliver new technology from the factory to the field and enhance the customer experience
- **SOFSA Interest: Expeditionary Power Generation & Life Support Systems (Shelters, Filtration, Mobility, Medical etc.)**
  - Transportable ( Individual to Small Teams) Minimal Setup/Store Times, Recyclable/Consumable with Low Footprint and Logistics Support Tail and Maintenance


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# PEO SOFSA

## Program Executive Office for Special Operations Forces Support Activity

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# Questions

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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Geoff Downer, SES,** Program Executive Officer

## ROTARY WING

SOF AT&L



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# Schedule of Virtual Presentations

**Wed**
**19 MAY 2021**
**0900-1000**

**PEO RW**
**Strategic Overview**

**Tues, Thu, and Fri**
**19MAY21 0900-1130**
**19MAY21 1300-1400**
**19MAY21 1530-1645**
**20MAY21 1400-1700**
**21MAY21 0800-1145**

**PEO One-on-One Sessions**
**15 Minute Increments**


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NIGHT STALKERS

# 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

US Army Special Operations
Aviation Command
(Resource Sponsor)
FT Bragg, NC

Systems Integration
Management Office (SIMO)
(User Rep / Requirements)
FT Campbell, KY

TAPO
(Materiel Developer)
FT Eustis, VA

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)


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# Program Executive Office Rotary Wing (RW)

## MOBILITY

### A/MH-6 Light Attack/Assault

### MH-60 Medium Attack/Assault

### MH-47 Heavy Assault

**Airframe Recapitalization**

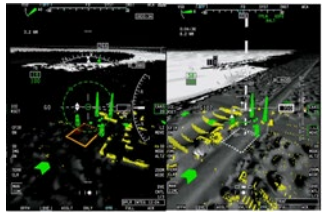
## MISSION EQUIPMENT

### Active Aircraft Survivability Equipment

### Passive Aircraft Survivability Equipment

### Avionics and Airborne Communications

### Sensors



**Common Hardware and Software**

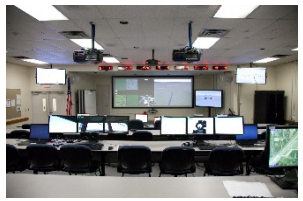
## TRAINING SYSTEMS

### A/MH-6M (Little Bird) CMS

### MH-47G CMS

### MH-60M CMS

### Mission Rehearsal Exercise Training System (MRETS)



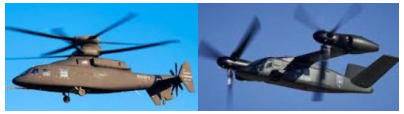
**Stimulated vs Simulated**

## Futures Efforts

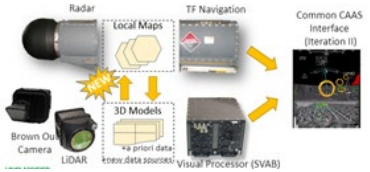
### Combined Efforts with FVL CFT

### FARA

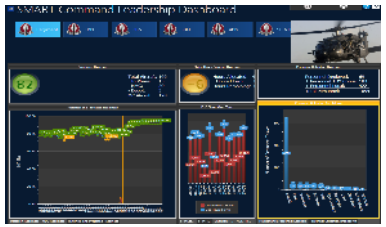
### FLRAA



### Data Fusion




### Data Science



**Future Investments**



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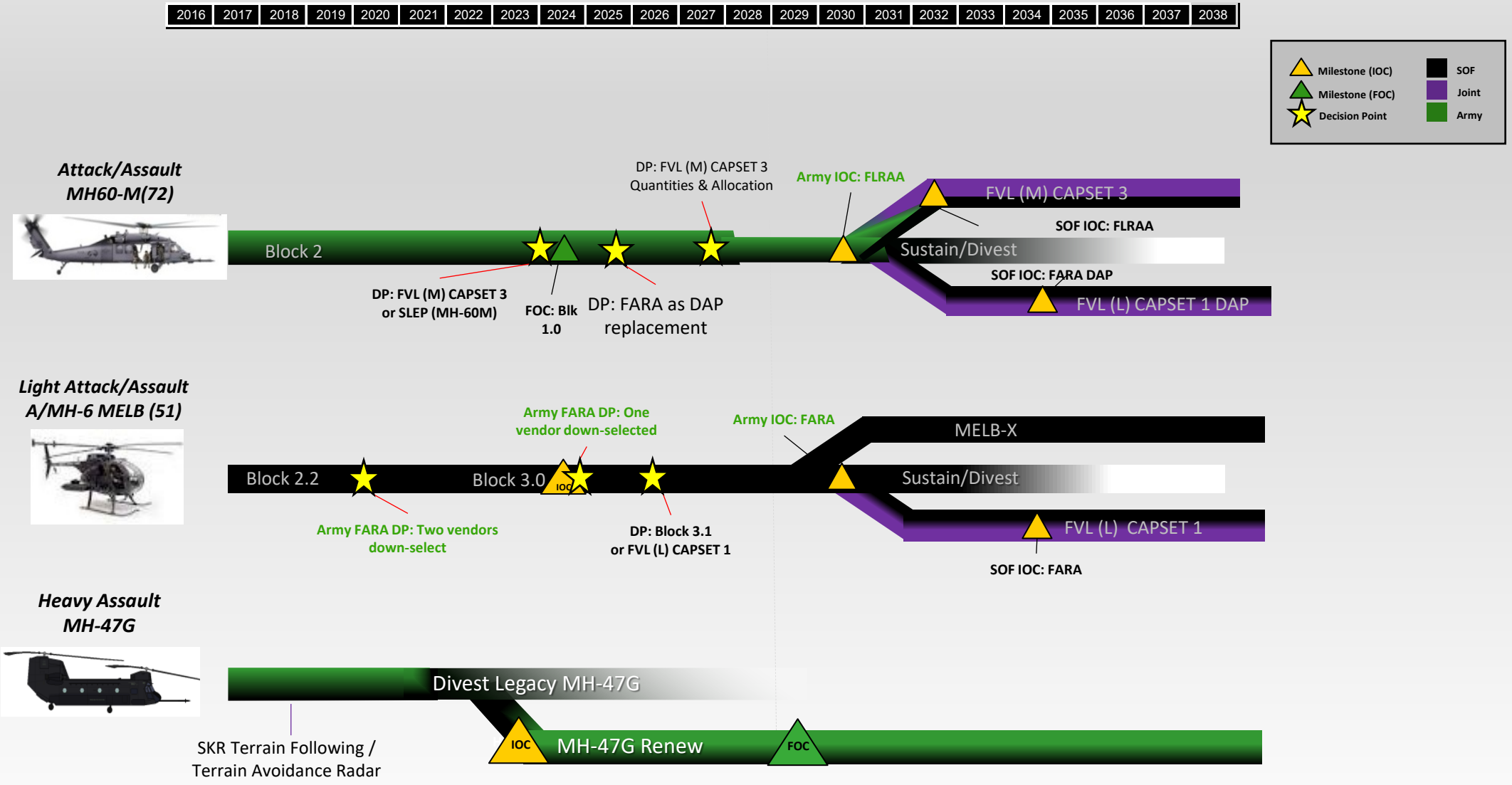
# SOF Rotary Wing Platform Roadmap



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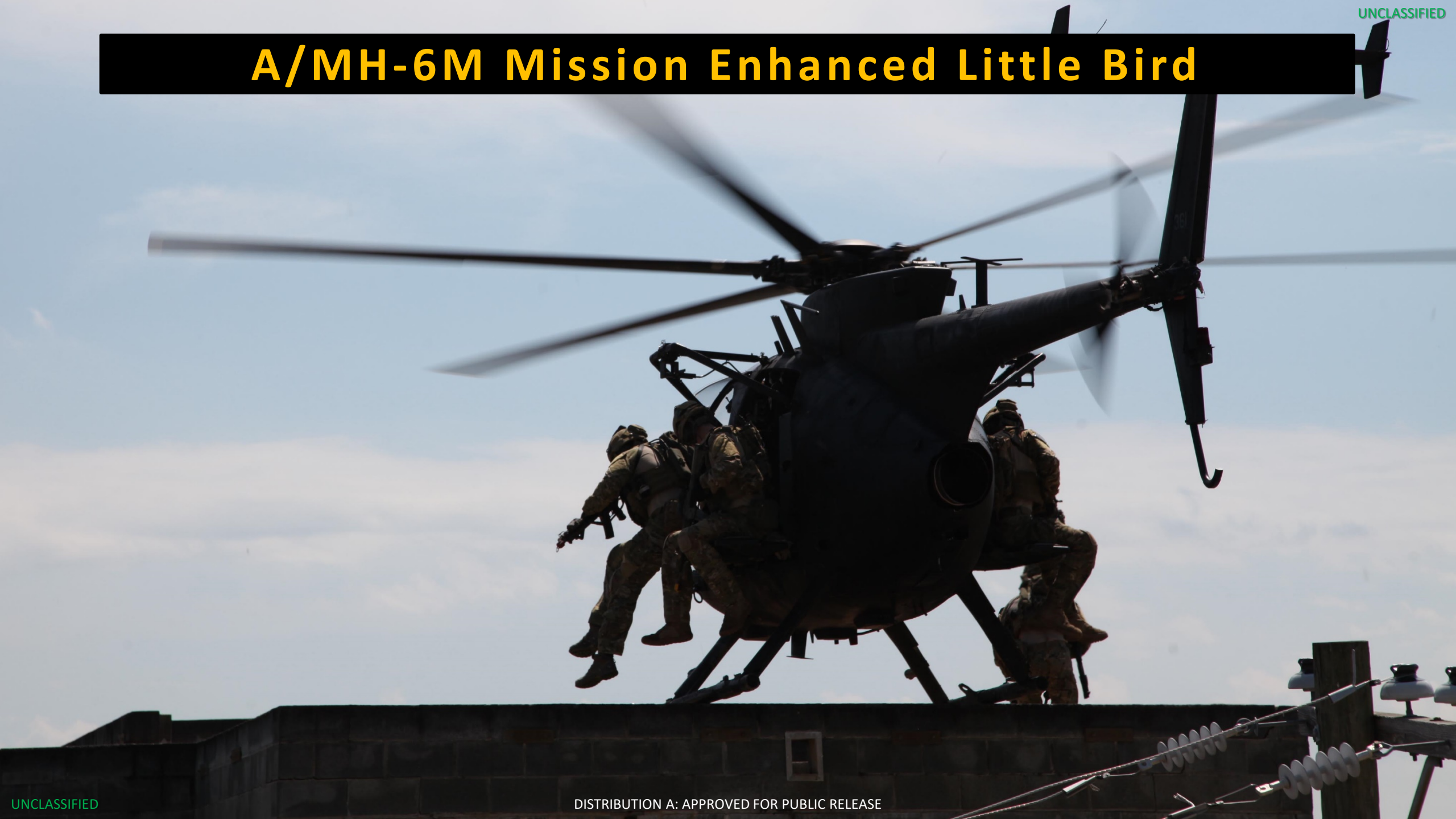
# A/MH-6M Mission Enhanced Little Bird





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# A/MH-6 Activities

**Block 2.2 upgrade execution**

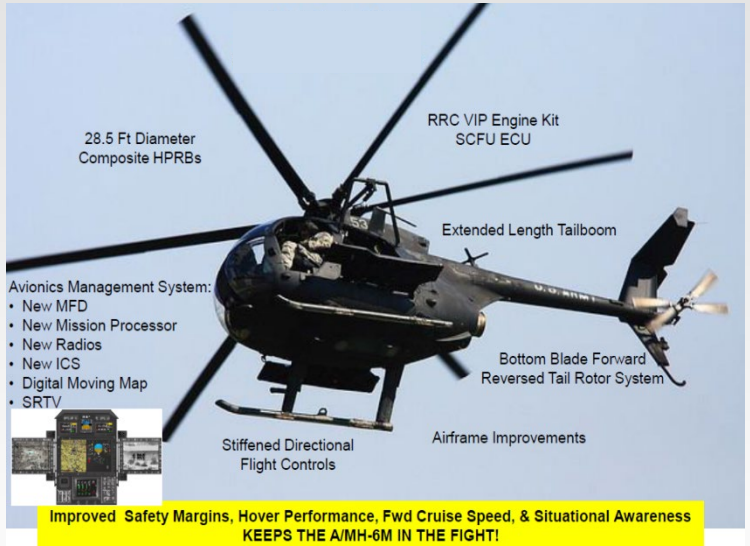
- **Improves crew safety**

**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**



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# MH-47G Chinook

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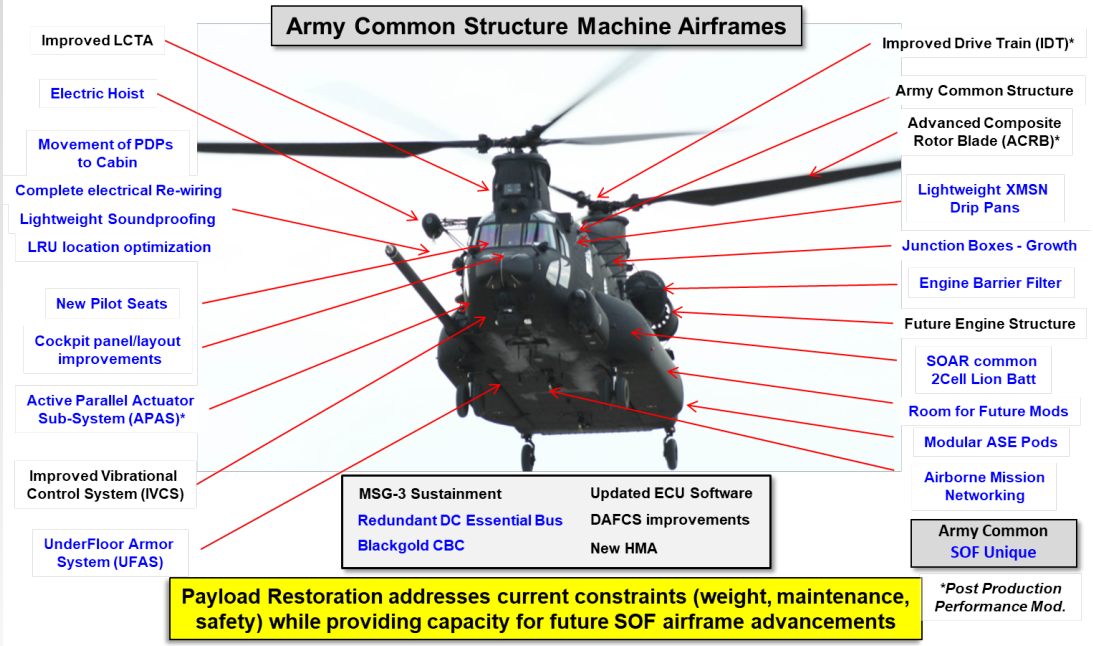
# MH-47G Activities

## 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



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# MH-60M Blackhawk

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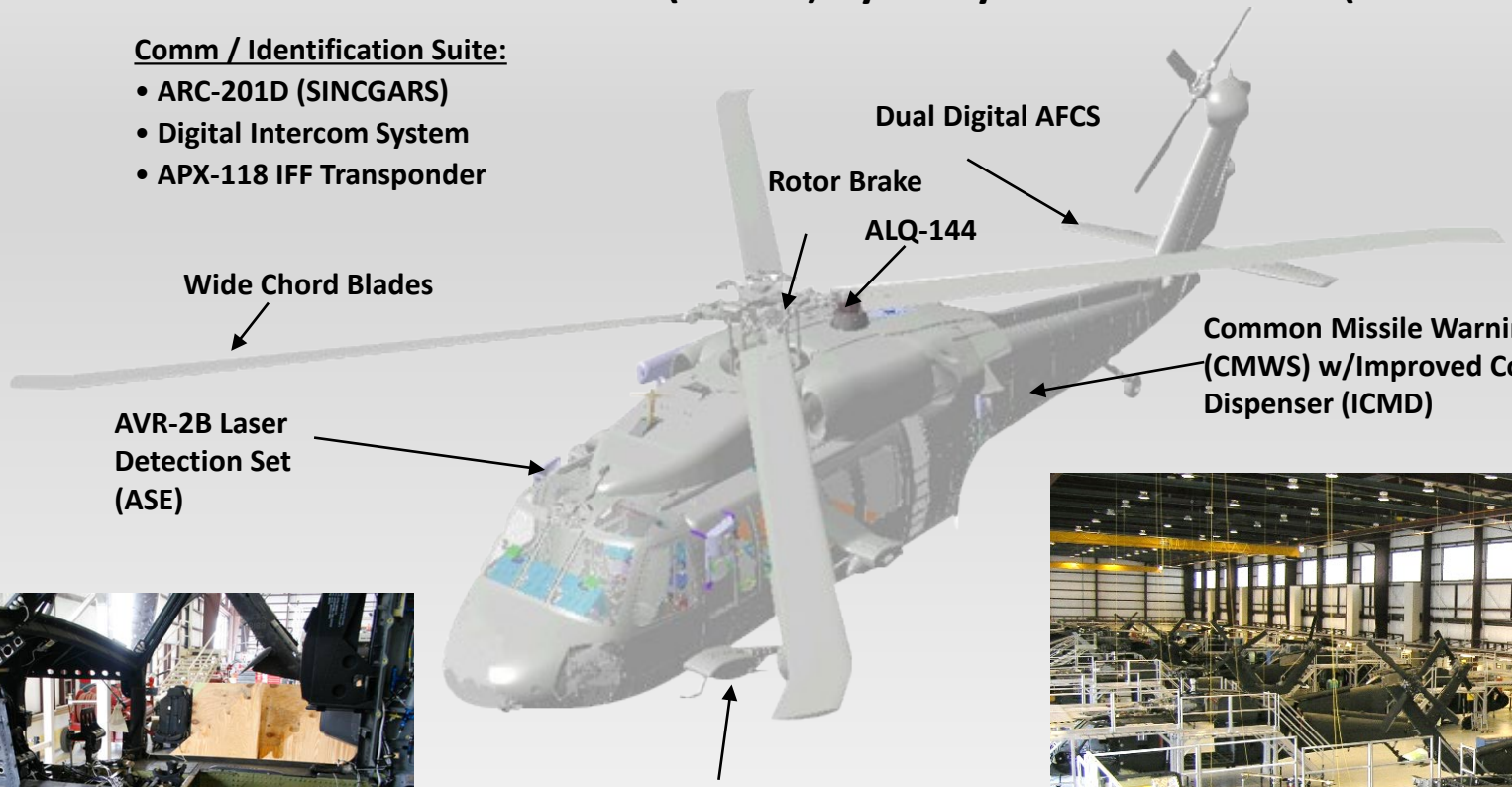
# SOF-Unique Modifications
## (UH-60M → MH-60M)

**Machined UH-60Ms delivered to TAPO (SOFSA) by Army PEO for Aviation (PM-Utility Helicopters)**

**Comm / Identification Suite:**
- ARC-201D (SINCGARS)
- Digital Intercom System
- APX-118 IFF Transponder



UH-60M Cockpit Disassembly

UH-60M Engine Removal Disassembly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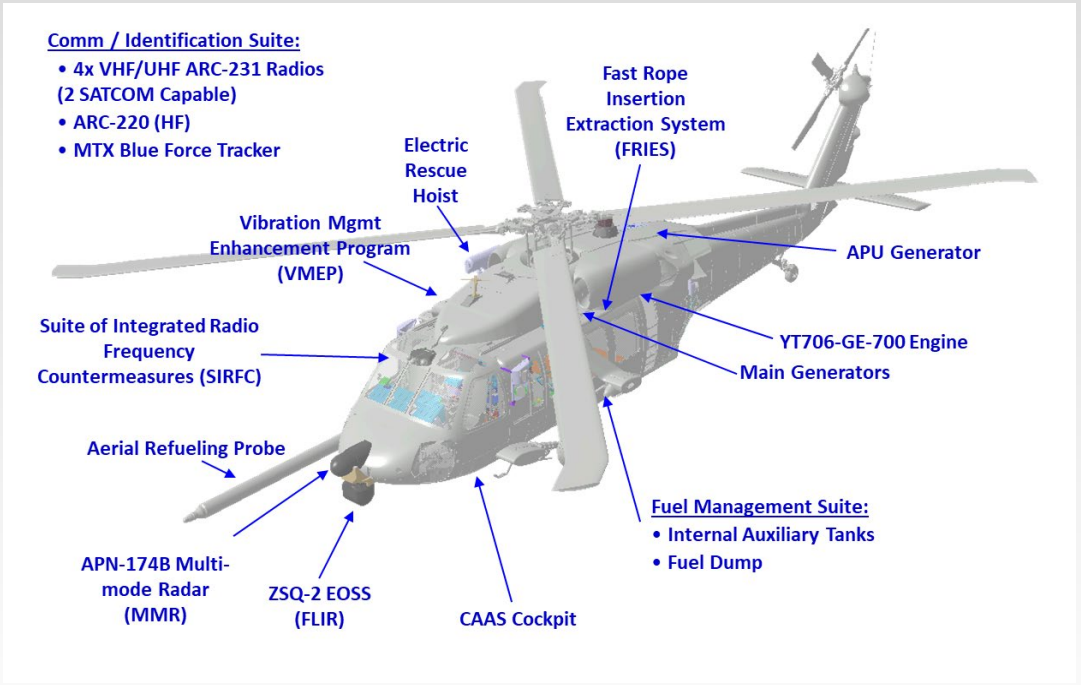
# MH-60M Activities

**Block 1.0 upgrade execution**
- Greater directional control
- Tactical Mission Networking
- Degraded Visual Environment
- DC Powered Mini-gun System
- Weight Reduction Initiatives

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




## MH-60M Block 1.0 Modifications
(Post Production at SOFSA-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 Syste

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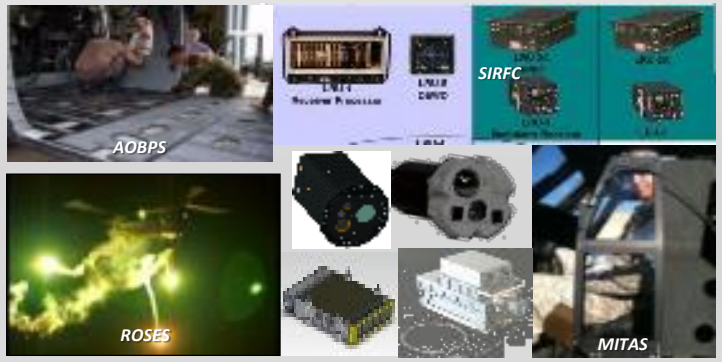
# Mission Equipment Activities

## Aircraft Survivability Equipment:

- IR Countermeasure Development
- RF Countermeasure Improvements
- Ballistic Protection



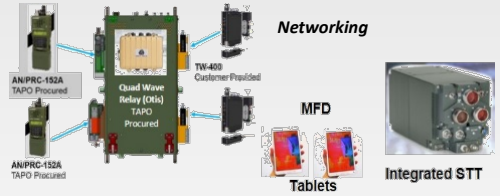

*Lightweight MANPADS Counter-measures*

## 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



*Eagle EGI*

*CXP IFF*

*ROVER 6*

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# Future Vertical Activities

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

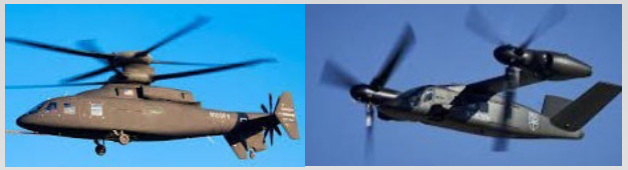
**FLRAA:** Aerial Refueling; Air Transport, Electro-Optical/Infrared sensor, Terrain Following Terrain Avoidance radar, Degraded Visual Environment system, Advanced Aircraft Survivability Equipment.

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

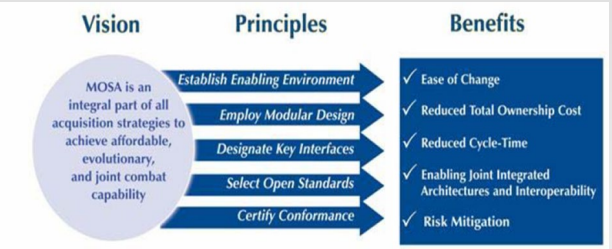
**ALE:** ALTIUS-600 integration onto H-60 in support of X-Convergence Demo and Regimental ALE Requirement

FARA

FLRAA



MOSA




ALTIUS-600

**Intent: Integrate USSOCOM requirements into the service-common development of a Multi-Service FVL aircraft.**



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# 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



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# QUESTIONS

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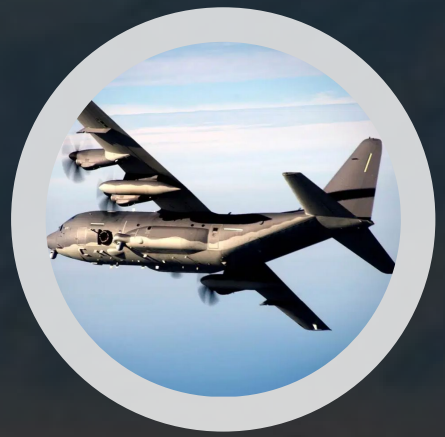
SOF AT&L

**Col Ken Kuebler,**
Program Executive Officer

# FIXED WING



## SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE



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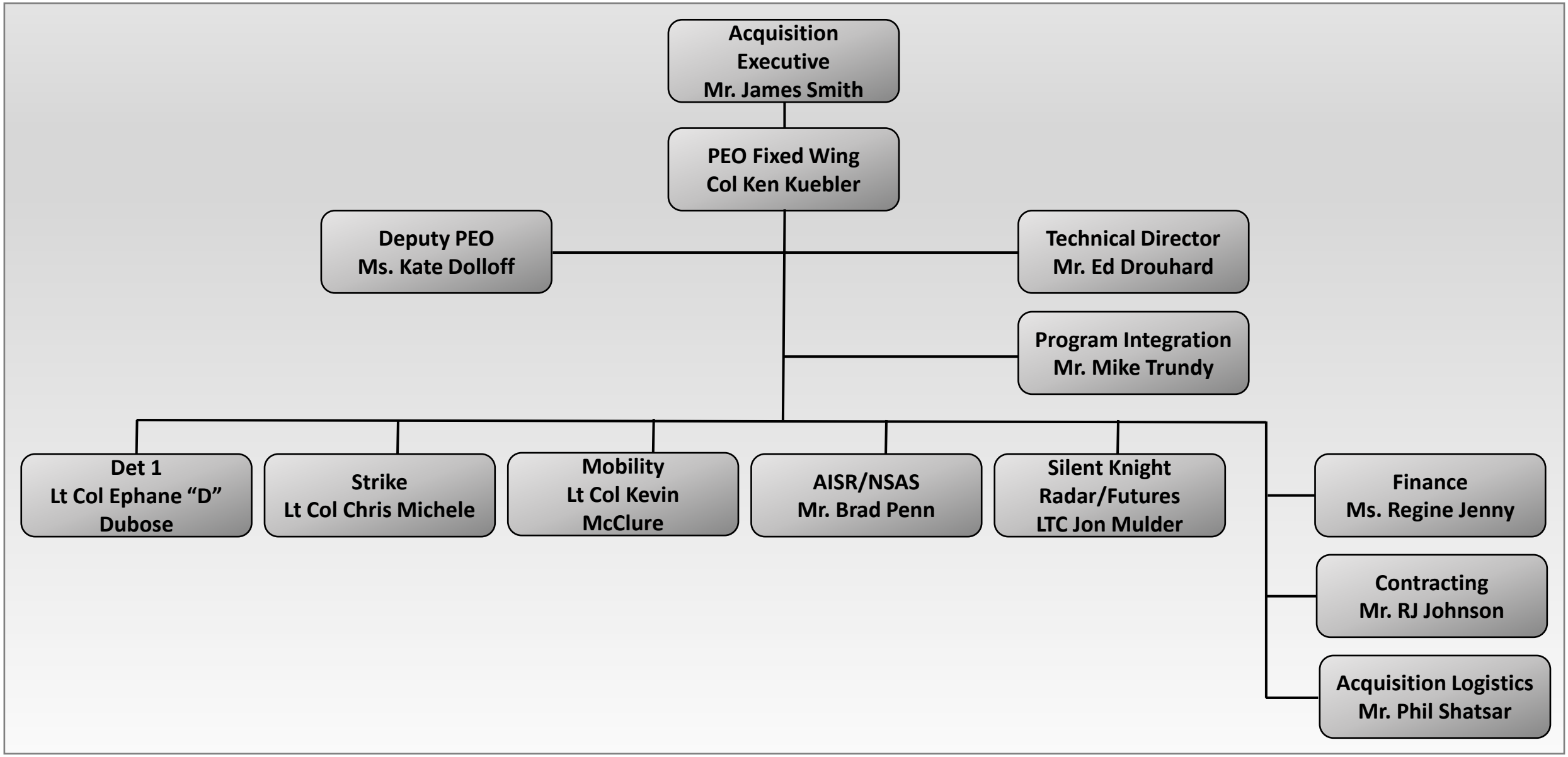
# Who We Are





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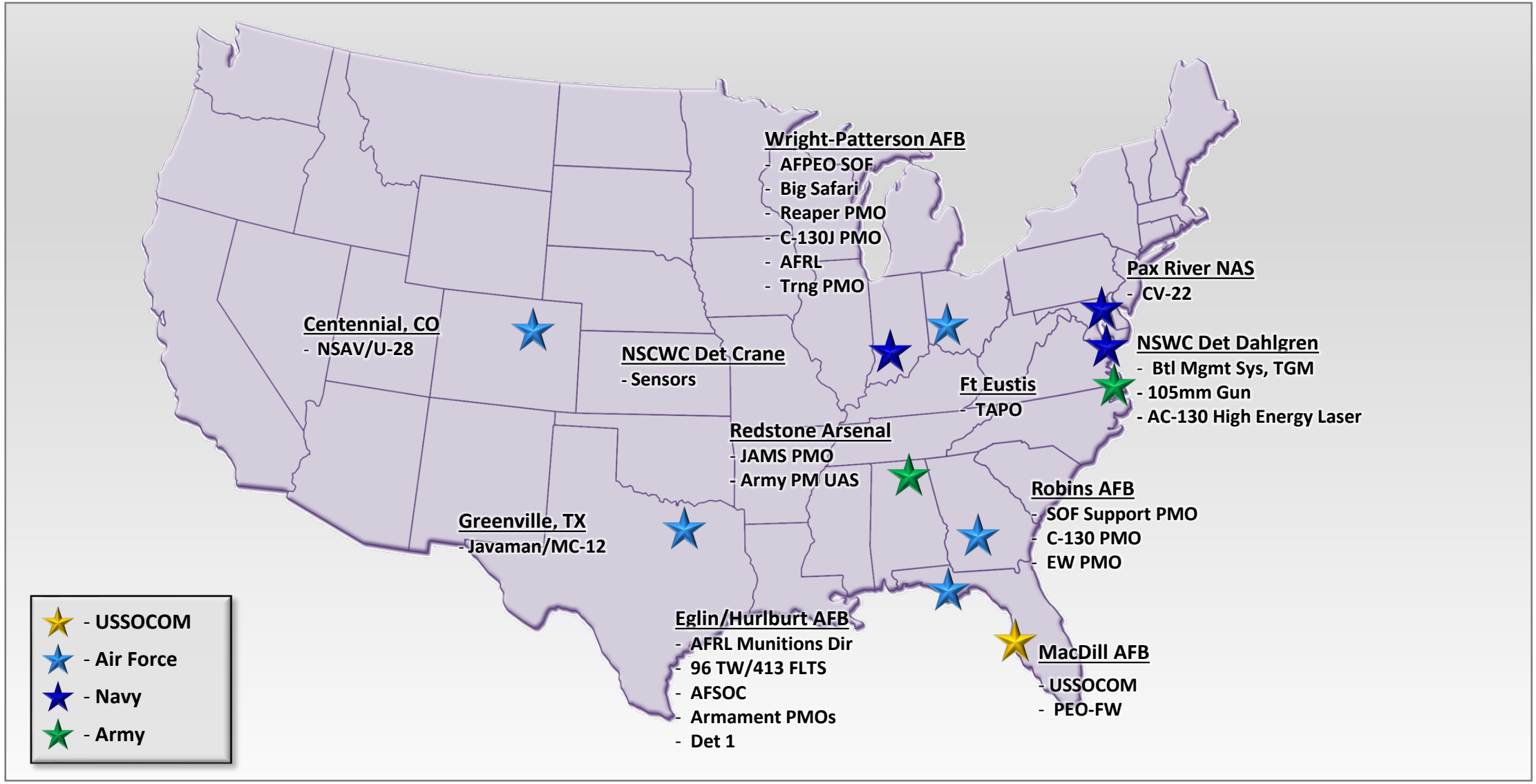
# Acquisition Support Enterprise





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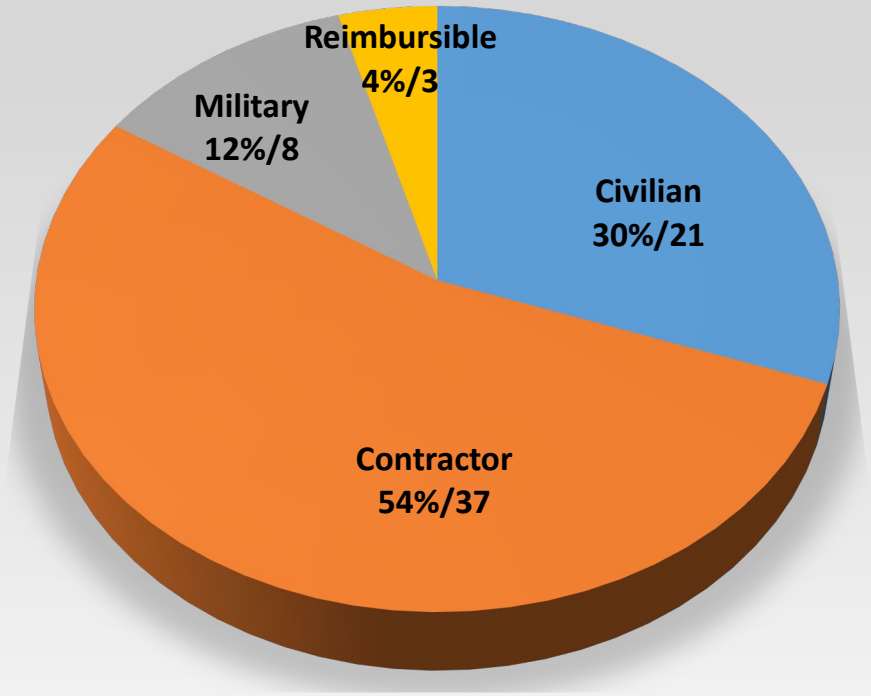
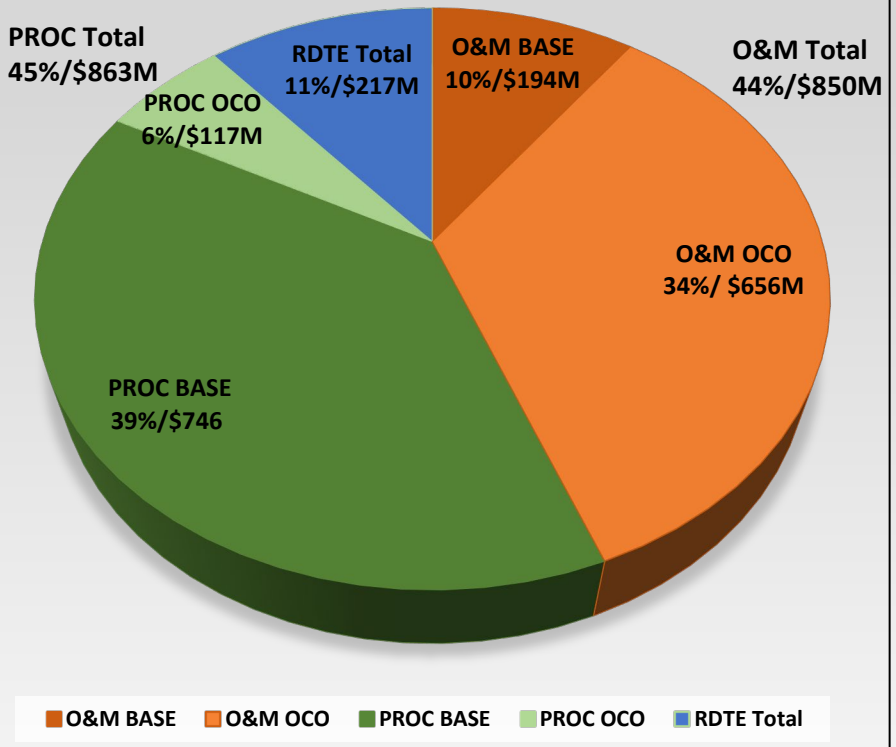
# PEO FW People and Resources

## Fixed Wing Personnel: 69




## FY21 Budget: $1.9B




## By the Numbers

**# of Programs/Projects:**
**58**

**# of Contractor/Vendor Partners:**
**55**

**# of Contracts/Delivery Orders:**
**107**

*FW Detachment 1 (DET 1): 57 Personnel
* Temporarily Assigned GHOSTS: 12 Personnel





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# Vision, Mission, and Lines of Effort

**Vision:** Trusted, empowered, relentless acquisition professionals

**Mission:** Deliver timely SOF Fixed Wing capabilities that provide a winning advantage to our Joint Force and Nation

**Lines of Effort**

1. Optimize the Workforce
2. Team with others to deliver SOF capabilities at the 'speed of need'
3. Ensure effective and efficient execution of FW programs to meet SOF requirements





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# Program Executive Office Fixed Wing (PEO FW)

## AISR / NSAS

MQ-1C Gray Eagle

MQ-9 Reaper

MC-12W

JAVAMAN

C-146A Wolfhound

U-28A/PC-12

C-145A Skytruck

LEA

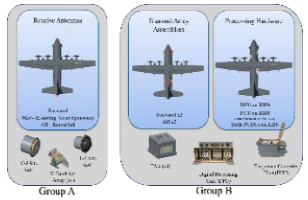
## MOBILITY

EC-130J Commando Solo

CV-22 Osprey

MC-130H Talon II

MC-130J Commando II



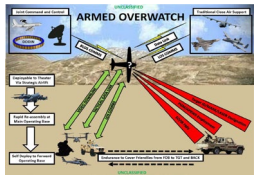
Radio Frequency Counter Measures

## STRIKE

AC-130J Ghostrider

AC-130W Stinger II

Advanced High Energy Laser



Armed Overwatch

Stand Off Precision Guided Munitions

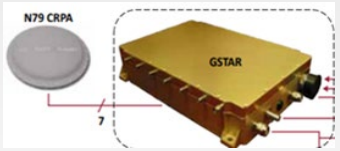
## SKR/FUTURES

Silent Knight Radar

Future Technology

## TECHNOLOGY INSERTION

Advanced Sensors



Alt-PNT

Mission Automations

Survivability

Mission Effects

AISR – Airborne Intelligence, Surveillance, and Reconnaissance
NSAS – Non-Standard Aviation Systems

SKR – Silent Knight Radar
LEA – Long Endurance Aircraft





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# Medium Altitude Long Endurance Tactical

**MQ-1C and MQ-9**

- **Capability Description:** Provides weaponized tactical Intelligence, Surveillance, and Reconnaissance
- **On-Going Efforts:** GPS hardening, enhanced sensors, increased weapons capacity
- **Future:** Airborne mission networking, precision guided munitions integration, increased survivability, increased autonomy, multi-domain operations

**Long Endurance Aircraft**

- **Capability Description:** Provides low-cost, long-endurance Intelligence, Surveillance, and Reconnaissance
- **On-Going Efforts:** Increased endurance, increased payload capacity
- **Future:** Enhanced sensors, increased speed, GPS hardening

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# Manned Intelligence, Surveillance, and Reconnaissance

**Manned ISR**

- **Capability Description:** Provides Manned Tactical Airborne Intelligence, Surveillance, and Reconnaissance
- **On-Going Efforts:** Sensor upgrades, Alternate Precision, Navigation, & Timing
- **Future:** Increased comms bandwidth / data transport, conduct operations in adverse weather, and target coverage (clouds or heavy foliage)

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# Non-Standard Aviation Systems

## NSAv

- **Capability Description:** Non-Standard Aviation (NSAv) supports worldwide Special Operations Force Tactical/Strategic missions, Short field insertion and Casualty Evacuation.
- **On-Going Efforts:** Aircraft maintenance, iterative operational upgrades, cybersecurity accreditation
- **Future:** Pacing obsolescence, and supporting emerging operational requirements

## AVFID

- **Capability Description:** Aviation Foreign Internal Defense (AvFID) provides Combat Aviation Advisor (CAA) proficiency in preparation for Partner Nation training in Special Operations Force Techniques, Tactics & Procedures (TTP)
- **On-Going Efforts:** Platform upgrades and munitions testing
- **Future:** Maintain capacity for foreign internal defense mission

## C27J

- **Capability Description**: Paratroop currency and training capacity, aerial delivery training for USASOC forces
- **On-Going Efforts:** Cockpit Upgrade (National Airspace Compliance and avionics obsolescence), Landing Gear procurement
- **Future:** Continue multinational efforts for cockpit upgrade and obsolescence mitigation

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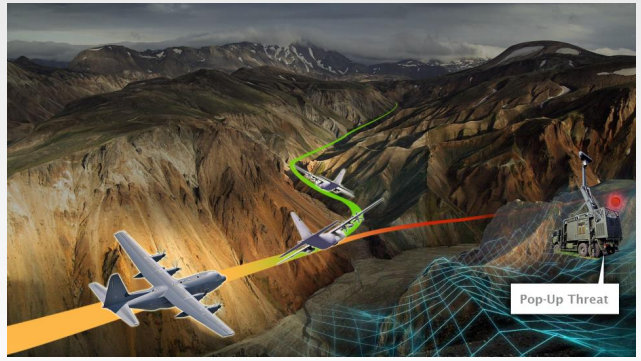
# MC-130J Recapitalization

- **Capability Description**

  Modify MC-130Js with SOF mission systems to perform networked low-level infil/exfil, airdrop, resupply and refueling in contested environments

- **On-Going Efforts**
  - Terrain Following Radar Integration
  - Airborne Mission Networking
  - Radio Frequency Countermeasures
  - Open Mission Systems (OMS) Integration
  - Special Mission Processor Tech Refresh
  - Tactical Flight Management System
  - Cloud-based Mission System Integration

- **Future**
  - Automated Mission Systems Functionality for Joint All-Domain Operations
  - Continue OMS integration for roll-on/roll-off capabilities





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# 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 Radar Integration
  - Color Helmet Mounted Display
  - Radio Frequency Countermeasure Upgrades
  - Aircraft Reliability Improvements

- **Future**
  - Airborne Mission Networking
  - Automated Mission Systems Functionality for Joint All-Domain Operations

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# Stand Off Precision Guided Munitions

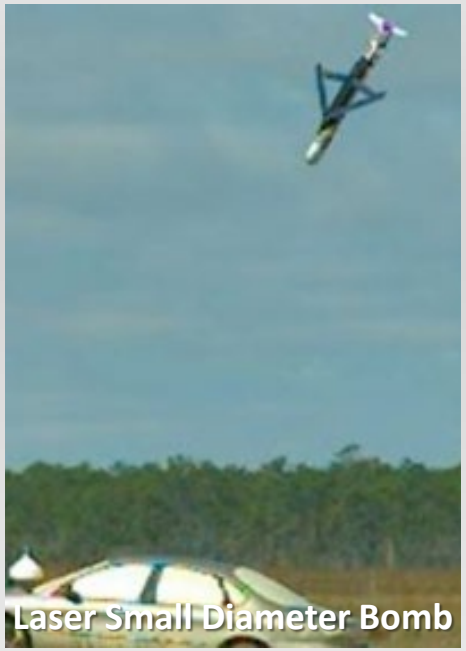
- **Capability Description**
  Procure and Develop Stand-Off Precision Guided Munitions

- **On-Going Efforts**
  - Autonomous/Synchronized Targeting
  - Data link integration

- **Future**
  - Post-Launch selectable effects
  - Next-generation guidance sensors

Griffin Missile

Small Glide Munition (SGM)


Laser Small Diameter Bomb

**Common Launch Tube (CLT)**
– Employs Griffin and Small Glide Munition





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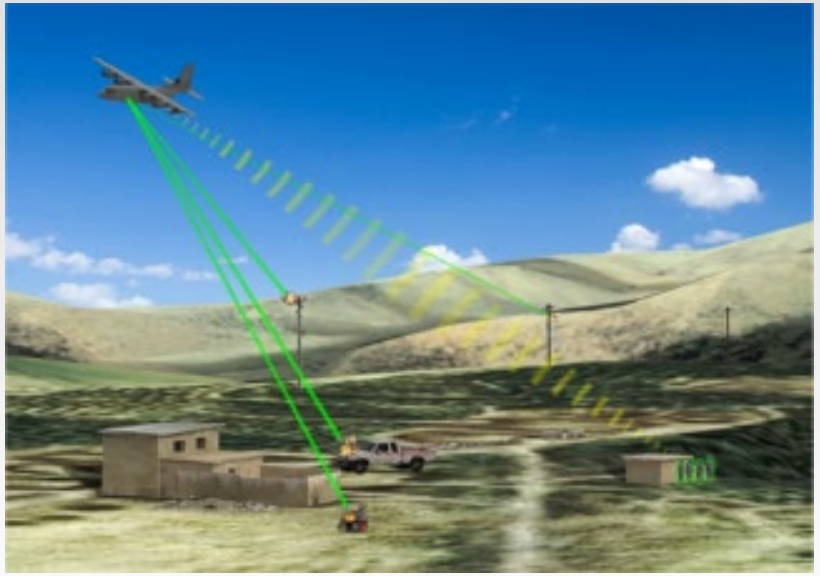
# AC-130J High Energy Laser

- **Capability Description**
  Demonstrate a ~60Kw offensive laser on an AC-130J

- **On-Going Efforts**
  – High power laser delivery
  – Beam control system delivery

- **Future**
  – Ground system integrations
  – Live airborne demonstration







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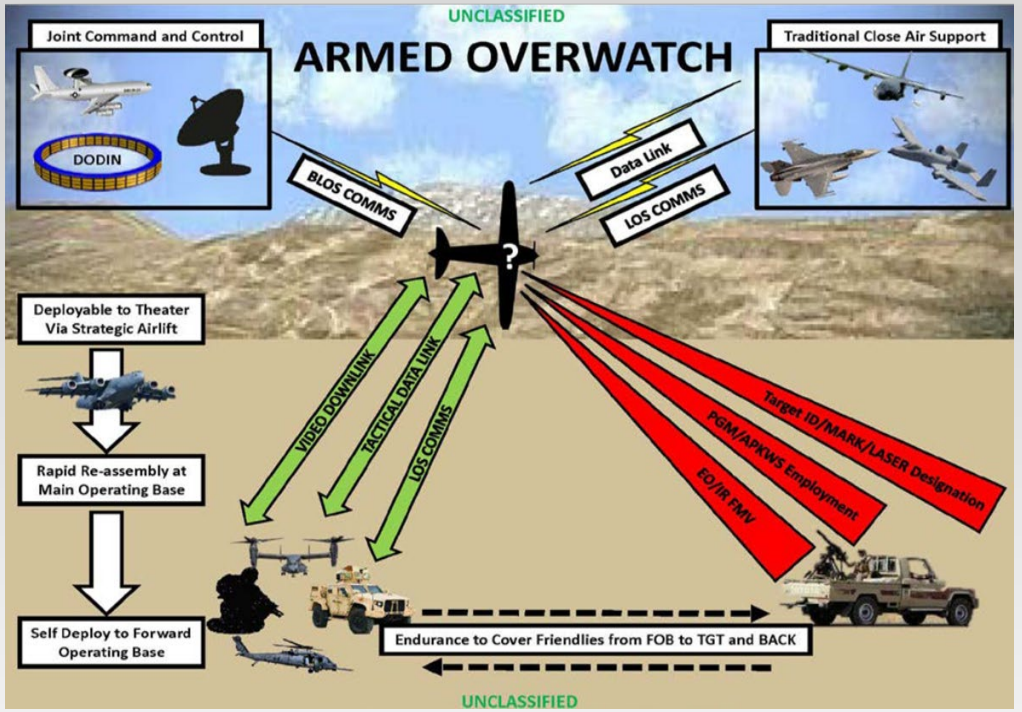
# Armed Overwatch

- **Capability Description:** Provide Special Operations Forces (SOF) with a deployable, affordable, and sustainable manned aircraft system capable of executing Close Air Support (CAS), Armed Intelligence, Surveillance & Reconnaissance (Armed ISR), and Precision Strike requirements in austere and permissive environments for use in Irregular Warfare operations in support of the NDS

- **On-Going Efforts:** Award Other Transaction Authority (OTA) agreements to qualifying industry partners to bring prototypes to a Command-sponsored demonstration

- **Future:** USSOCOM will use demonstration results to determine whether a solicitation for a follow-on production contract of 70-75 aircraft is in the best interest of the Government





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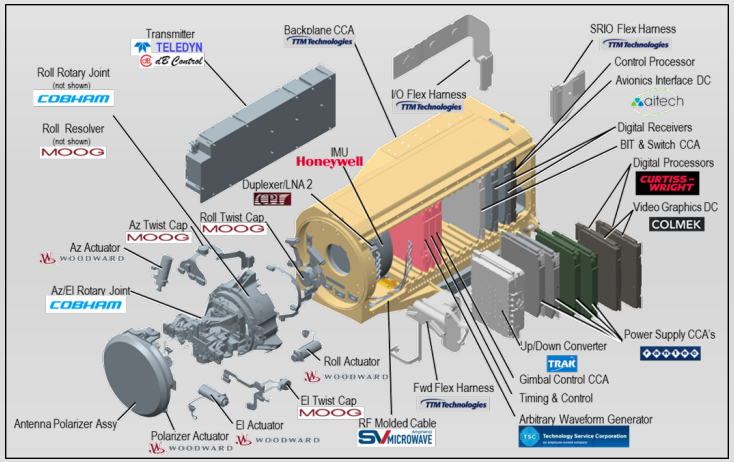
# Silent Knight Radar

- **Capability Description**
  - SOF Common Terrain Following/Terrain Avoidance (TF/TA) Silent Knight Radar provides a Low Probability of Intercept/Low Probability of Detection (LPI/LPD) capability to provide SOF aircraft with maneuverability in aerial denied peer/near peer environment




- **On-Going Efforts**
  - Full Rate Production
  - Software Integration & Enhancements

- **Future**
  - Integrated data processing / fusion with various onboard SOF sensors

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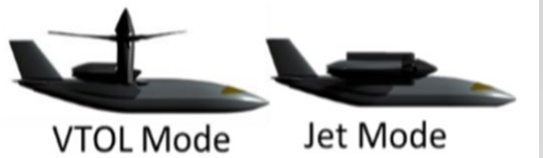
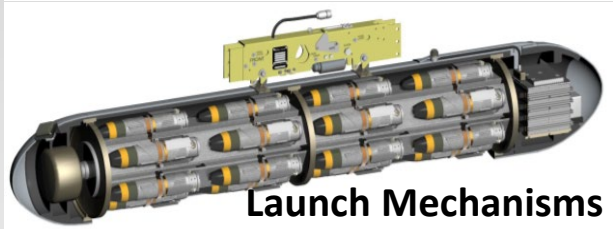
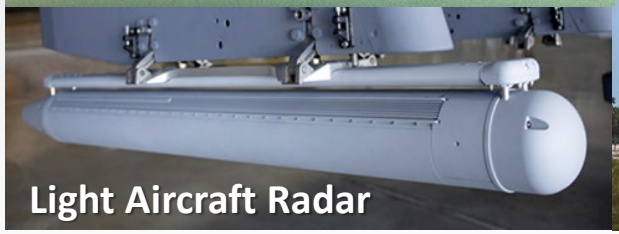
# Research and Development Initiatives

- **Focus Areas**
  - Amphibious MC-130 (MAC)
  - High Speed VTOL
  - Remote Gunship
- **On-Going Efforts**
  - Feasibility & survivability studies
  - Requirements definition maturation
  - Aircraft survivability hardware development
  - Light aircraft radar development
- **Future**
  - Future munitions / launch mechanisms
  - Integrated weapon effects / swarming
  - Small UAS / weapon launch system integration





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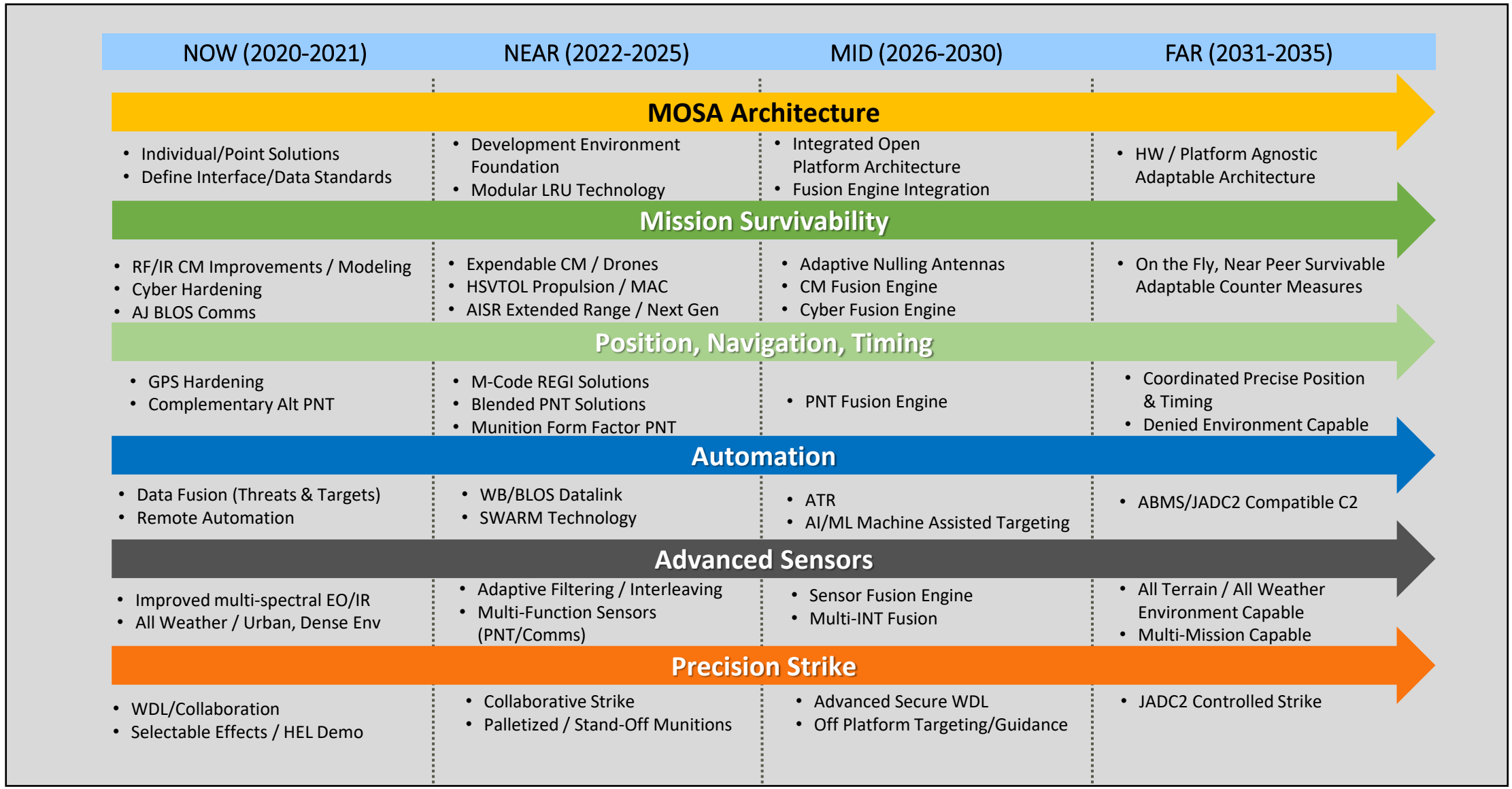
# FW Tech Insertion Roadmap





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# QUESTIONS?





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## SOF CHIEF INFORMATION OFFICER / SOCOM J6

# RE-IMAGINING THE SOF INFORMATION ENVIRONMENT (SIE): DIGITALLY TRANSFORMING SOF TO COMPETE TO WIN

**Dr. Lisa Costa, SES**

**SOF CIO / SOCOM J6 Director**

**20 May 2021**



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# Far Ridgeline Notional Operations Vignette

- Specified Tasks
  - Ascertain terrain
  - Develop sub surface mapping
  - Develop patterns of life
  - Remain undetected

- Operational Scenario | Constraints
  - Denied, degraded SATCOM
  - Denied, degraded GPS
  - Radiofrequency jamming and Direction-finding
  - Large areas of geography with no landmarks
  - Limited Capacity of maritime mobility assets

- Mission
  - Conduct special reconnaissance
  - Confirm or deny the presence of defense infrastructure
  - Characterize the current status of suspected reclamation projects
  - Generate maps, in real time, of the sub- surface terrain
  - 72 hours to complete

- SIE Needed Capabilities
  - Global auto-failover multi-spectral, multi-transport
  - Resilient Tactical Mission Networks
  - Federated SOF Data Fabric
  - DevSecOps to the Edge
  - Single query to search/discover across multiple security enclaves
  - Interoperability w/ Joint Force and Mission partners


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# Does the SOF Information Environment (SIE) Shape the Force or does the Force Shape the SIE?

**BOTH**



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# Are we Digitally Modernizing or Transforming?

B O T H

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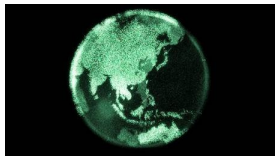
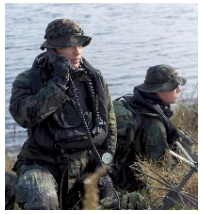
# SOF Information Environment Four Primary Goals

## ADVANCE THE MOBILITY OF A GLOBAL MISSION FORCE



Build NextGen SIE Connectivity

Enable global cloud access



Streamline tactical kit

Deliver fully capable mobile device access

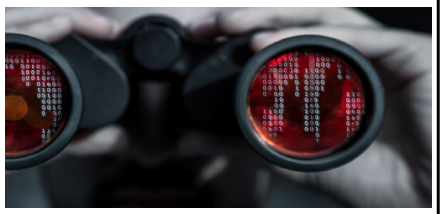
Empower a professional and mobile digital workforce, skilled through cutting-edge training and education

## EMBED COLLABORATION & INSTANTANEOUS DATA DISCOVERY EVERYWHERE

- Enable cloud-based OneDrive at all levels
- Implement Natural Language Processing libraries
- Invest in real time dashboards and divest of static slides
- Accredit Multi-domain Recommender Systems
- Enable collaboration through secure and compliant means

## DOMINATE THE CYBER ECOSYSTEM FOR SPECIAL OPERATIONS

- Understand the 5 W's of cyber threats
- Use data-driven cyber risk to prioritize actions
- Unity of effort between J2/J3/J6
- Establish policy to protect the SIE and DODIN



## CULTURAL IMPERATIVE: OPERATIONALIZING INNOVATION

- Cultivate partnerships with Joint Force programs, commercial industry, and academia
- Policies and TTPs to support multi-domain interoperability
- Agile and cost-effective DevSecOps community
- Scale to meet component/TSOC fit-for-purpose mission needs

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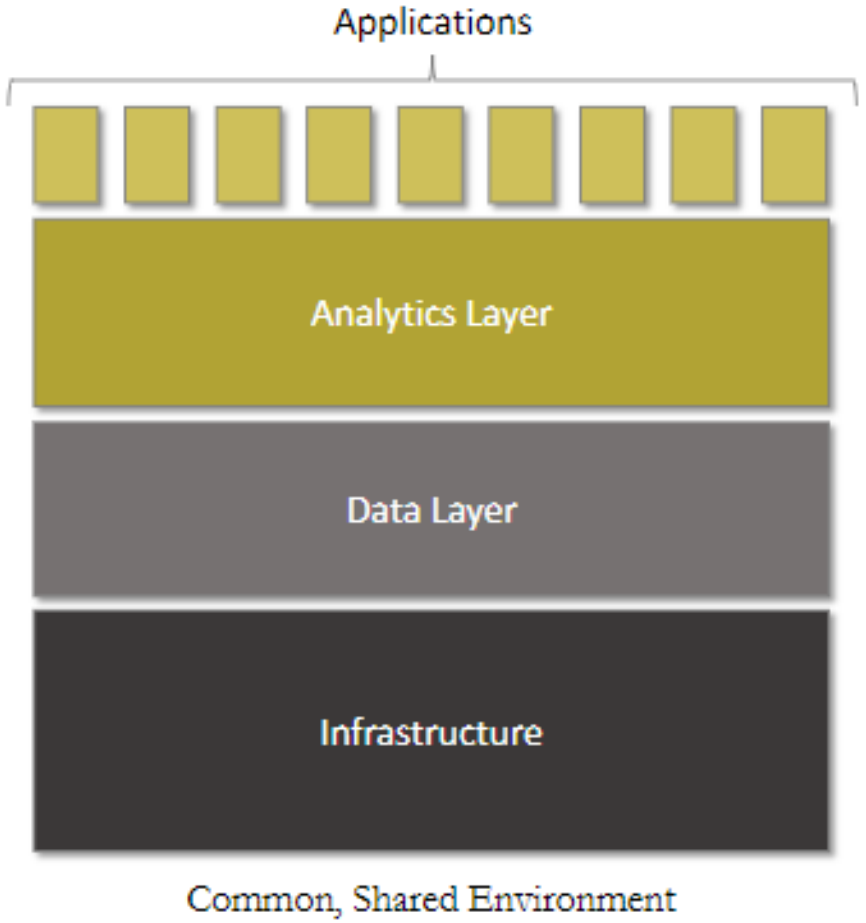
# SOF Needs from Industry and Academia

- Next Generation Cross-Domain Solutions
- Multi-cloud agnostic solutions from enterprise to tactical edge
- Contested Communications Environment (CCE)/ Denied, Disrupted, Intermittent, and Limited (DDIL) Capabilities
- Secure Internet of Things (IOT) integrated
- Integrating Zero Trust into Network Operations
- Secure Mobile Capabilities
- Software Defined Hardware
- “Just in time” Interoperable Waveforms





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**SIE PRIORITIES**
**#1: Globally Mobile**
**#2: Data Discoverability**
**#3: Cyber Secure**
**#4: Operational Innovation**

# Thank you!

- Q&A with CIO/J6 Panel
  - Dr. Lisa Costa, SOF CIO/SOCOM J6
  - COL Joe Pishock, SOCOM J63 Current C4 Operations Division Chief
  - Mr. Mike Langlois, SOCOM J65 C4 Programs, Requirements and Governance Division Chief
  - CW5 Robert Byrd, SOCOM CIO/J6 Chief Engineer

**SIE: DIGITALLY TRANSFORMING SOF TO COMPETE TO WIN**


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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**CAPT Randy Slaff,** Program Executive Officer
**MARITIME**

SOF AT&L



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# Program Executive Office – Maritime

- PEO Opening Comments and Portfolio Overview
- PM Combat Diving
- PM Naval Special Warfare
- PM SOF Undersea Mobility
- PM Undersea Systems
- PM Surface Systems
- S&T and R&D Interests
- Open Forum Questions

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# Organizational Chart

**CAPTAIN ROCKY RUSSELL**

CCA
CCH
CCM
CCFLIR
SOCR
MPE

**CAPTAIN RANDY SLAFF**

**CAPTAIN JONATHAN KIM**

DDS

DCS
Technical
Support

DCS

**COMMANDER SCOTT DELWICHE**

Combat Diving

**MR JIM KNUDSON**

SDV

UUV

**CAPTAIN BRIAN O'LAVIN**



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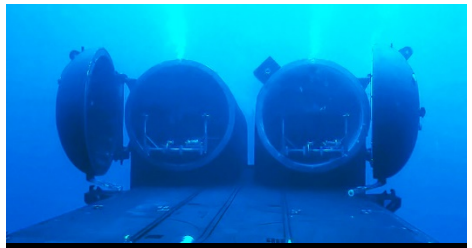
# Program Executive Office Maritime (M)

## UNDERSEA SYSTEMS

SEAL Delivery Vehicle MK 8



Dry Deck Shelter

SEAL Delivery Vehicle MK 11

Unmanned Underwater Vehicle

SOF Combat Diving

Dry Combat Submersible

## SURFACE SYSTEMS

Combatant Craft Assault

Combatant Craft Heavy

Special Operations Craft -Riverine

Combatant Craft Medium

Next Gen CCFLIR2



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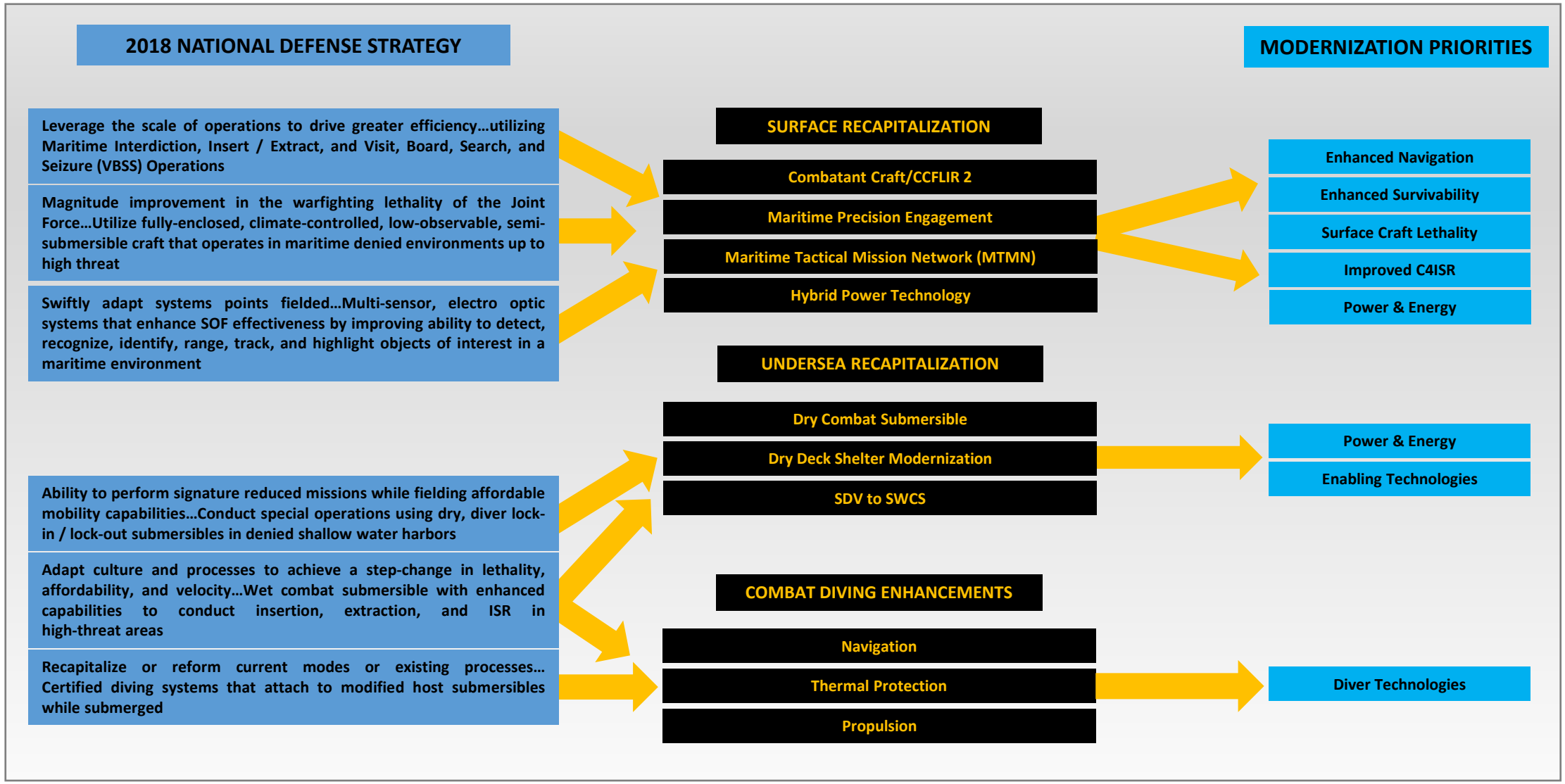
# Capability Focus Areas Alignment to NDS and Procurement Priorities



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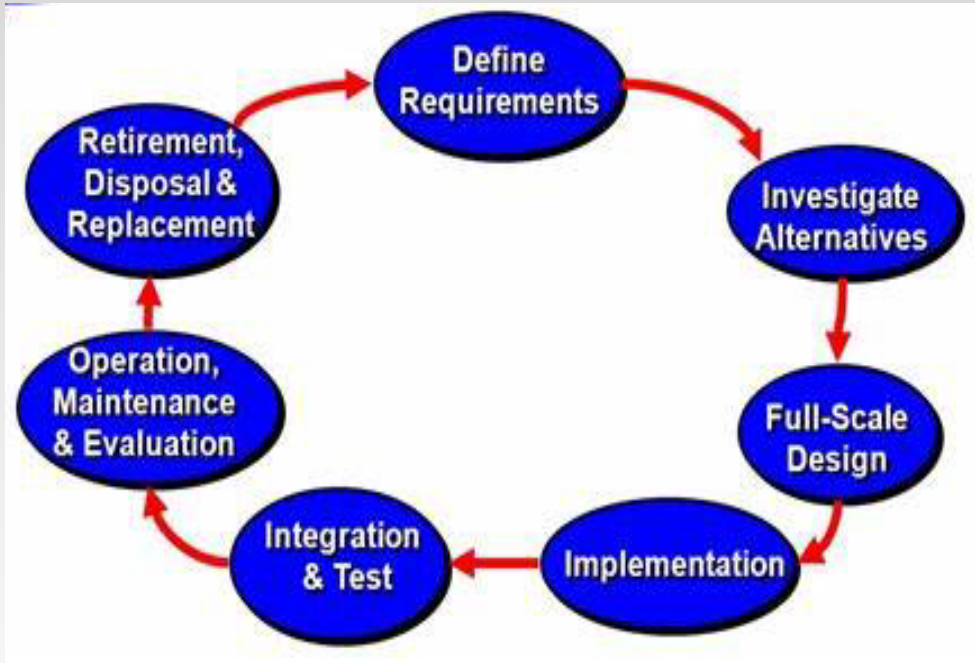
# Why PEO Maritime is Unique

- Typically do not receive equipment from parent service
- Majority of platforms are Special Operations Peculiar (SO-p), built specifically to meet NSW requirements
- Full Life Cycle System Management
- Cradle to Grave – development to divestiture with two exceptions
  - MK 18 MOD 1 – service common UUV with SO-p modifications
  - Combat Diving – modified COTS, in addition to specific builds





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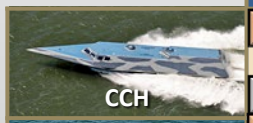
# NSW Craft Roadmap

| | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
|---|---|---|---|---|---|---|
|  CCH | DEVELOPMENT | | | | | |
| | | PRODUCTION | | | | |
| | SUSTAINMENT | | | | | |
| CCM | DEVELOPMENT | | | | | |
| | PRODUCTION | | | | | |
| | SUSTAINMENT | | | | | |
| CCA | DEVELOPMENT | | | | | |
| | PRODUCTION | | | | | |
| | SUSTAINMENT | | | | | |
| SOCR | PRODUCTION | | | | | |
| | SUSTAINMENT | | | | | |
| CCFLIR2 | PRODUCTION | | | | | |
| | SUSTAINMENT | | | | | |
| UUV | DEVELOPMENT | | | | | |
| | SUSTAINMENT | | | | | |
| SDV MK 11 | DEVELOPMENT | | | | | |
| | PRODUCTION | | | | | |
| | SUSTAINMENT | | | | | |
| DCS | DEVELOPMENT | | | | | |
| | PRODUCTION | | | | | |
| | SUSTAINMENT | | | | | |
| DDS | DEVELOPMENT | | | | | |
| | PRODUCTION | | | | | |
| | SUSTAINMENT | | | | | |
| Combat Diving | DEVELOPMENT | | | | | |
| | PRODUCTION | | | | | |
| | SUSTAINMENT | | | | | |



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# Program Executive Office – Maritime

- **Continue Fielding Enhanced Capability**
  - Recapitalization/Upgrade of the Fleet
    - Combatant Craft/CCFLIR2
    - SDV MK 8 to SDV MK 11
    - Dry Deck Shelter modernization
  - New capabilities
    - Dry Combat Submersible
    - Maritime Precision Engagement
    - SOF Combat Diving
- **Areas of Interest**
  - Maritime Communications
  - Power & Energy
  - Fleet Interoperability
  - Training and Operator Performance
  - Enhanced Navigation
  - Diver Thermal Protection
  - Diver Equipment Power
  - Survivability and Lethality
  - Artificial Intelligence enabled capabilities
- **Reaching out to Industry Partners**
  - Requests for Proposal
  - Requests for Information
  - Broad Area Announcements
  - SOFWERX Collaboration events
  - S&T Technical Experimentation events
  - Industry Days


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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Jim Knudson,** Program Manager Special Operations Forces Combat Diving

## PORTFOLIO REVIEW

SOF AT&L



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# SOF Combat Diving

- Supports the individual diver, as well as integration with all PEO-Maritime systems and platforms
- Current efforts target equipment in the areas of maritime environmental protection, diver propulsion, diver navigation, and underwater communication (diver-to-diver and diver-to-platform)
- Supports development of enhanced diving capabilities for operators using both wet and dry submersibles

## ACQUISITION STRATEGY

- Utilization of existing contracts, other government agencies, and new contracts competitively selected

## PERIOD OF PERFORMANCE

- Planned FY21 through FY26

## MILESTONES

- Various Based on Projects

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

| | |
|---|---|
| • RDT&E | FY21 through FY26 |
| • PROC | FY21 through FY26 |
| • O&M | FY21 through FY26 |

## CURRENT CONTRACT/OEM

- DLA Troop Support, Philadelphia, PA
- See Following Slides for List of Major Suppliers



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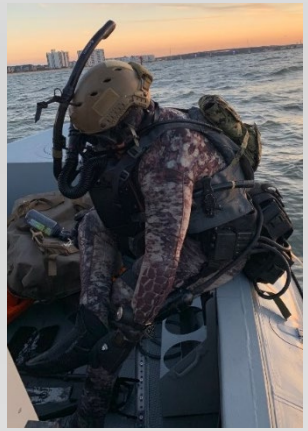
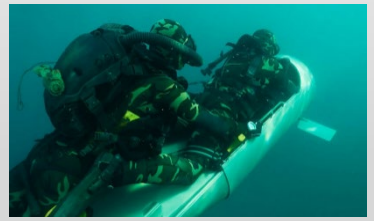
# SOF Combat Diving Requirement Areas

- **Maritime Environmental Protection**
  - Enhanced thermal regulation
    - Active and passive heating and cooling
  - Full face mask
    - For use with closed-circuit rebreather
    - Incorporates voice communications
  - Excursion-capable O2 Underwater Breathing Apparatus (UBA)
  - Chemical, Biological, Radiological, and Nuclear or Explosive (CBRNE) protection

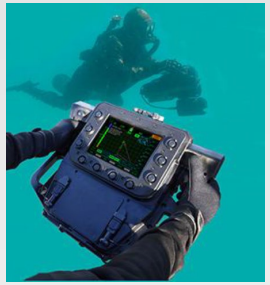


- **Diver Propulsion**
  - Collective, individual and hands-free capabilities
    - Compact size and reduced weight
    - Flexible delivery options (ship, submarine)
    - Commonality



- **Underwater Communication**
  - Diver-to-diver and diver-to-platform
  - Android Tactical Applications Kit (ATAK)
  - Acoustic and Optical
    - Text and data
    - Voice (air and HeO2)
    - Full motion video

- **Diver Navigation**
  - Hand-held and collective capabilities
    - Situational awareness
    - Navigational accuracy (positioning)

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# SOF Combat Diving Major Industry Partners

- Advanced Diver Solutions, Virginia Beach, VA
- Aqua Lung, Vista, CA
- Rini Technologies, Oviedo, FL
- General Atomics, San Diego, CA
- Partiot3 Maritime, Fredericksburg, VA
- Stidd Systems Inc., Greenport, NY
- SUEX SRL, Villorb, Italy
- Marine Tech SA, Krosno, Poland
- Ceebus Technologies, Boulder, CO
- Nellis Engineering, Inc., West Sacramento, CA
- Woods Hole Oceanographic Institution, Woods Hole, MA
- Shark Marine Technologies, Inc., St. Catharines, Ontario, Canada

Diver Navigation

Maritime Environmental Protection

Underwater Comms (Diver-to-Diver)

Diver Propulsion



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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**CAPT Brian O'Lavin,** Program Manager Naval Special Warfare

## PORTFOLIO REVIEW

SOF AT&L



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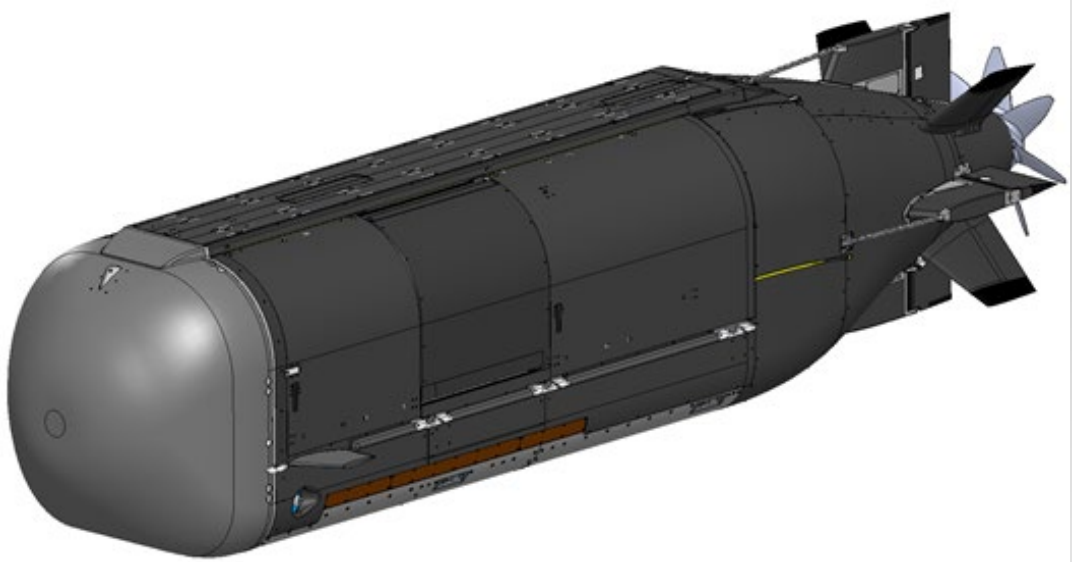
# SEAL Delivery Vehicle MK 11

- Next generation free-flooding wet combat manned submersible to transport Special Operations Forces (SOF) personnel and equipment for a variety of missions
- SDV MK 11 replaces the current SDV MK 8, Mod 1 vehicle



## ACQUISITION STRATEGY

- Full and open competition
- Contract awarded in 2011
- Follow-On Production Contract awarded in 2019

## PERIOD OF PERFORMANCE

- FY11 through FY20
- FY19 through FY24

## MILESTONES

- IOC: Planned for FY22
- FOC: Planned for FY23

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

| | |
|---|---|
| • RDT&E | FY21 through FY26 |
| • PROC | FY21 through FY26 |
| • O&M | FY21 through FY26 |

## CURRENT CONTRACT/OEM

- Teledyne Brown Engineering, Huntsville, AL



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# SEAL Delivery Vehicle MK 11

- **SDV MK 11 vs SDV MK 8 Size/ Weight Differences**
  - SDV MK 11 is 12” longer, 6” taller and wider
  - SDV MK 11 is 4000lbs > SDV MK 8
- **SDV MK 11 Enhancements over SDV MK 8**
  - Intel Core i7 Processors, Secure SSD, GB Ethernet Backbone
  - Improved software and User Interface
  - Higher accuracy navigation
  - Increased cargo and payload capacity
- **Project Status**
  - Boats 1 & 2: Delivered May & Jun 2018
  - Boats 3 & 4: Delivered Mar & Apr 2020
  - Boat 5: Delivered Jun 2020
  - Boats 6 – 10: Planned FY22 through FY23

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# MK 18 Mod 1 UUV

- MK 18 Mod 1 UUV enables access to high threat areas in the maritime domain, expands access and reach into littorals and reduces risk to personnel/manned platforms. Provides enhanced situational awareness and access & placement.
- Service Common Platform incorporating Special Operations-peculiar Modifications

## ACQUISITION STRATEGY

- Procure ***Service Common (MFP-2)*** man-portable UUV PoR and augment it with purpose built, modular, plug-and-play sensors/payloads to meet SOF Peculiar requirements (MFP-11).

## PERIOD OF PERFORMANCE

- N/A

## MILESTONES

- IOC: Planned for FY21
- FOC: Planned for FY22

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

| | |
|---|---|
| • RDT&E | FY21 through FY26 |
| • PROC | None |
| • O&M | FY21 through FY26 |

## CURRENT CONTRACT/OEM

- Hydroid, Pocasset, MA


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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**CAPT Jonathan Kim,** Program Manager SOF Undersea Mobility

## PORTFOLIO REVIEW

SOF AT&L



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# Dry Deck Shelter

- The Dry Deck Shelter (DDS) is a certified diving system that attaches to modified submarines. The program provides material safety certification, maintenance, modernization (Field Changes) and minor modifications for the DDS
- Maintenance and modernization contract to include Restricted Availabilities (RAVs), Regular Overhauls (ROHs) and Configuration Changes

## ACQUISITION STRATEGY

- DDS Maintenance Contract (open competition)
- Contract awarded in 2018

## PERIOD OF PERFORMANCE

- FY18 through FY23

## MILESTONES

- FOC: FY91
- Modernized DDS IOC: FY21

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

| | |
|---|---|
| • RDT&E | FY21 through FY26 |
| • PROC | FY21 through FY26 |
| • O&M | FY21 through FY26 |

## CURRENT CONTRACT/OEM

- Oceaneering International Inc. – Marine Services Division (OII-MSD)



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# Dry Deck Shelter

## Dry Deck Shelter Modernization Project

### Mod DDS Configuration Changes

- Field Change (FC) 167 – Remotely Operated Hangar Outer Door
- FC 168 – Extend shelter 50 inches
- FC 169 – Increased capacity Payload Launch and Recovery System
- FC 170 – Remote Control from the host submarine

### Mod DDS Objectives

- Increase payload volume by 30%
- Increase weight capacity by 300%
- Remote hangar operation from Virginia Class host submarine
- Reduce risk to host submarine
- Reduce operator fatigue

### Project Status

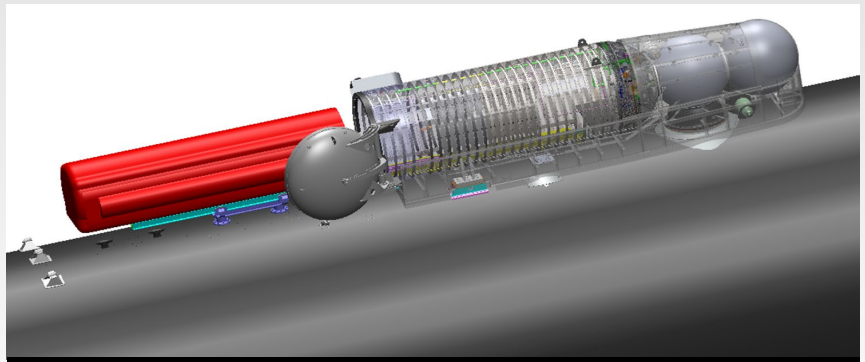
- Preliminary Design Review completed Sep 2016
- Critical Design Review completed Dec 2017
- Technical Data Package approved Jul 2020
- Technical Demonstrator Production – ECD Jun 2021

### Target Payloads

- Naval Special Warfare (NSW)
- SEAL Delivery Vehicle MK 11 (SDV MK 11)
- Large Displacement Unmanned Undersea Vehicle (LDUUV)
- Littoral Battlespace Sensing – AUV, Submarine (LBS-AUV(S))

Mod DDS

Mod DDS P-LARS Prototype



Mod DDS w/ Notional Payload



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# Dry Deck Shelter – Future Efforts

## DDS Enhancements

- Increase payload capability to support SDV MK 11
- Modifications of DDS to support SOF stowage
- SOF Carry-on Hardware approvals

## Host Sub (HOSUB) interoperability

- Initial fit-up of DDS to VIRGINIA Class (VACL) Hosts
- Cross Fit of DDS to support multiple VACL Hosts
- Improve services from Host to DDS in support of Carry-on Hardware


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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**CDR Scott Delwiche,** Program Manager Undersea Systems

## PORTFOLIO REVIEW

SOF AT&L



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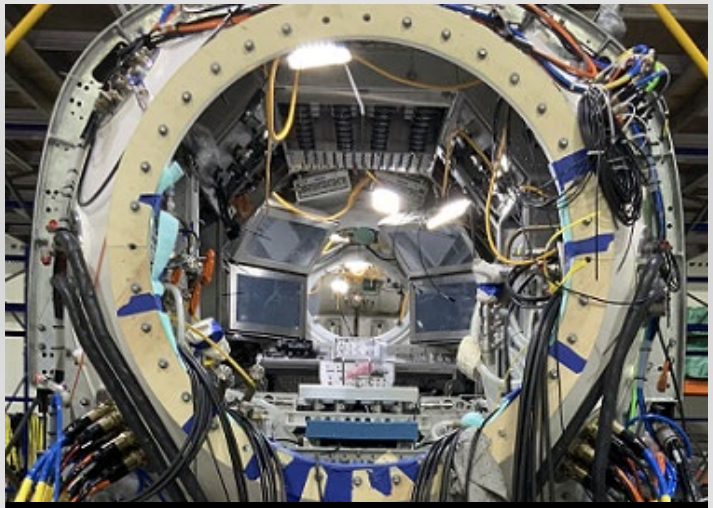
# Dry Combat Submersible (DCS) Block I

DCS 1 Preparing for an Underway



DCS 2 Electrical Cable Assembly

DCS 3 Pressure Hull

## ACQUISITION STRATEGY

- Full and Open competition for production representative system with options for up to two additional systems

## PERIOD OF PERFORMANCE

- FY16 through FY21

## MILESTONES

- IOC: FY21
- FOC: FY22

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

| | |
|---|---|
| • RDT&E | FY21 through FY26 |
| • PROC | FY21 through FY26 |
| • O&M | FY21 through FY26 |

## CURRENT CONTRACT/OEM

- Lockheed Martin RMS (Prime)
- Submergence Group, LLC (Major Subcontractor)
- MSubs Ltd. (Major Subcontractor)



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# DCS Next Efforts

## New Dry Submersible Program

- Interoperable with specific US Navy submarines
- System certification by a member of the International Association of Classification Societies
- USSOCOM certifies for SOF embarkation
- NAVSEA certifies for submersible interoperability with the submarine

## Submarine Interoperability

- Launch, locate, home, recover, replenish, sustain and maintain
- Mated solution on VIRGINIA Class submarines at Logistics Escape Trunk

## Surface Ship Interoperability

- Launch, locate, home, recover, replenish, sustain and maintain
- Potential Navy surface ship vessels of opportunity not defined at this time

## Market research including

- DCMA Industrial Capability Assessment
- Technology Risk Reduction studies
- Industry days/Industry visits
- Naval Sea Systems Command enterprise coordination/collaboration


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# DCS Program Future Efforts

## New or Evolving Technologies

- Submersible Energy Sources
- Software Defined/Hardware Enabled Systems
- Information Assurance/Machine Learning
- Electro-Optical/Infra-Red Sensor Capability
- Subsurface Sensor Capability
- Integrated UAS Capability for Sensor Range Extension
- Lightweight Panel Assemblies/Exostructure
- Composite Gas Cylinders/Flasks

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**CAPT Rocky Russell,** Program Manager Surface Systems

## PORTFOLIO REVIEW

SOF AT&L



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# Combatant Craft Heavy (CCH): SEALION

- Provides long range insertion and extraction capabilities
- SEALION III delivery
- 2 of 3 fielded

## ACQUISITION STRATEGY

- Two tech demonstrators transferred from USN
- SEALION III sole source award

## PERIOD OF PERFORMANCE

- FY16 through FY21

## MILESTONES

- IOC: FY14
- FOC: FY21

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

- RDT&E FY21 through FY26
- PROC FY22 through FY23
- O&M FY21 through FY26

## CURRENT CONTRACT/OEM

- Vigor Works, LLC (OEM)
- SOFSA/Lockheed Martin (CLS)



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# Combatant Craft Medium (CCM) MK 1

- Multi-role surface combatant craft with the primary mission of inserting and extracting SOF in medium threat environments
- Began initial craft deliveries to east coast operational unit
- 30 of 30 fielded

## ACQUISITION STRATEGY

- Small business set aside using competitive prototyping

## PERIOD OF PERFORMANCE

- FY15 through FY22

## MILESTONES

- IOC: FY15
- FOC: FY21

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

| | |
|---|---|
| • RDT&E | FY21 through FY26 |
| • PROC | FY21 through FY26 |
| • O&M | FY21 through FY26 |

## CURRENT CONTRACT/OEM

- Vigor Works, LLC (OEM)
- SOFSA/Lockheed Martin (CLS)



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# Combatant Craft Assault (CCA)

- Medium range, maritime assault, interdiction, insertion and extraction platform
- Follow-on production contract for Capital Equipment Replacement program
- 32 of 32 fielded

## ACQUISITION STRATEGY

- New production contract
- Post-production and contractor logistics support through SOFSA

## PERIOD OF PERFORMANCE

- FY20 through FY24

## MILESTONES

- FOC: FY20

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

| | |
|---|---|
| • RDT&E | FY21 through FY26 |
| • PROC | FY21 through FY26 |
| • O&M | FY21 through FY26 |

## CURRENT CONTRACT/OEM

- US Marine Inc. (OEM)
- SOFSA/Lockheed Martin (CLS)



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# Combatant Craft Forward Looking Infrared (CCFLIR)

- Provides SOF with a multi-sensor, electro-optic system that enhances SOF effectiveness by improving their ability to detect, recognize, identify, range, track and highlight objects of interest in a maritime environment
- Integrated and deployed on CCM and CCH
- CCA integration in design and test stage
- 47 of 58 delivered

## ACQUISITION STRATEGY

- Full and Open Competition completed FY15
- Modified GOTS technology

## PERIOD OF PERFORMANCE

- FY15 through FY24

## MILESTONES

- IOC: FY18
- FOC: FY24

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

- RDT&E None
- PROC FY21
- O&M FY21 through FY26

## CURRENT CONTRACT/OEM

- FLIR Systems, Inc. (OEM)
- NSWC Crane – Sustainment



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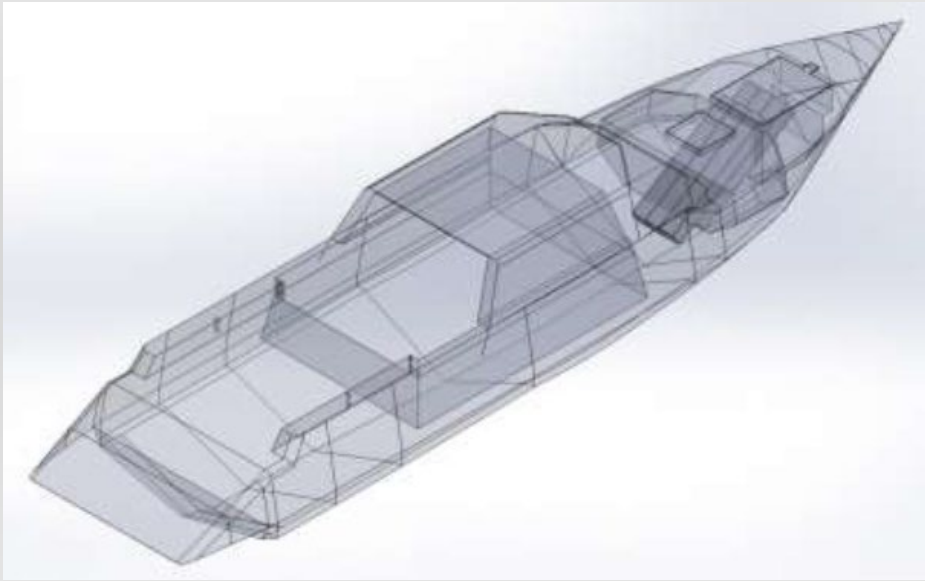
# Maritime Precision Engagement (MPE)

- Pursuit of Standoff, Loitering, Man-in-the-loop Weapons system deployed on Combatant Craft and capable of targeting individuals, groups, vehicles and small oceangoing craft. The program consists of combatant craft alterations, launcher systems and munitions
- "A-Kit" prototype in fabrication
- Munition development



## ACQUISITION STRATEGY

- Government design effort for craft integration and control system

## PERIOD OF PERFORMANCE

- TBD

## MILESTONES

- Continual assessment of design safety and suitability
- Candidate munition(s) availability for testing

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

- RDT&E FY21 through FY26
- PROC FY22 through FY26
- O&M FY22 through FY26

## CURRENT CONTRACT/OEM

- OEM - TBD
- NSWC Dahlgren – System Development
- NSWC Carderock – Craft Integration



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# Combatant Craft Mission Equipment (CCME)

- Provides advanced technologies to correct system deficiencies, improve asset life and augment mission requirements. It provides rapid response solutions to support combatant craft systems, sub-systems and their evolving requirements
- Advanced sensors and communications
- Assured/Alternative Position, Navigation & Timing

## ACQUISITION STRATEGY

- Integrate high TRL technologies across the family of combatant craft through BAAs, SIBRs and existing government contracts

## PERIOD OF PERFORMANCE

- Varies per task

## MILESTONES

- Varies per task

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

- RDT&E FY21 through FY26
- PROC None
- O&M None

## CURRENT CONTRACT/OEM

- NSWC – Carderock
- NAWC – Aircraft Division (C5ISR Integration)


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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. John Bailey,** Maritime Chief Engineer

## PORTFOLIO REVIEW

SOF AT&L



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# S&T / R&D Opportunities for Industry

- For FY20 PEO-M requested significant additional RDT&E funding to build capability in the areas listed below
- PEO-M is actively seeking opportunities to invest in innovative technology development efforts and to partner with industry

## ACQUISITION STRATEGY

- Leverage both existing and new contracts. Use IDIQ / RFP / BAA / SBIR / STTR / OTA
- Open architectures – maximize opportunity for rapid integration of new technology

## POTENTIAL FY21 ENGAGEMENT OPPORTUNITIES

- TE Events – SOF Combat Diving, Surface Systems
- SOCOM S&T BAA
- OTAs
- SOFWERX Engagements

## FY21-FY26 TECHNOLOGY INTEREST AREAS

- Interoperable Maritime Communications Architecture
- Power & Energy
- Enhanced Survivability
- Strategic Initiatives & Fleet Interoperability
- Artificial Intelligence-enabled capabilities
- Enhanced Navigation
- Improved C4ISR Capabilities
- Diver Technologies
- Training & Operator Performance

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

## FUNDING

| | |
|---|---|
| • RDT&E | FY21 through FY26 |
| • PROC | None |
| • O&M | None |



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# Chief Engineering Office

Funding: High / Low

**Activities:**
Operational Analysis, System Engineering, Architecture Development, Independent Verification and Validation

i.e. JHU-APL, Battelle, SOFWERX, University of Texas-Austin, DoD or Federal Centers of Excellence

**Resourcing:**
Science & Technology, DoD and Federal Labs, Academia, Small Business Innovation Research, SOFWERX, Prize Challenges, Capstones, University Academia Research Centers
BA 2-3

Engineering Design and Analysis, Testing, Modeling and Simulation, System Integration, Low Rate Initial Production Design
BA 7

**Maritime Technology Transition & Exploitation (MTTE)**

**Activities:**
Production capable contractors, Sustainment Support, Incremental engineering

**Resourcing:**
Congressional Budget approvals, Unfunded Requirements (UFR) approvals

BA 7, Procurement, O&M

**Discovery and Concept Refinement** → **Technology Development** → **Prototype TRL 6-7** → **Test & Evaluation Engineering and Integration Planning TRL 7-9** → **Production Manufacturing and Fielding**

**POM Planning**


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# Opportunities

- **Broad Agency Announcements (BAA) & Requests For Information (RFI)**
  - **USSOCOM Science & Technology (S&T) Directorate**

- **Office of the Secretary of Defense Programs**
  - **Small Business Innovation Research (SBIR)**
  - **Small Business Technology Transfer (STTR)**
  - **Foreign Comparative Test (FCT)**

- **Other Transaction Authorities**
  - **Undersea Technology Innovation Consortium (UTIC)**

- **Cooperative Research And Development Agreements (CRADAs)**

# Opportunities

- Collaborative efforts with Government Laboratories, University Affiliated Research Centers, Federally Funded Research & Development Centers, Land Grant Universities, etc.
- USSOCOM S&T Technical Experimentation Events
- USSOCOM Acquisition Agility Events – SOFWERX
- USSOCOM S&T Technology Scouting
  - www.atlas-sof.com
- USSOCOM Engage SOF (eSOF)

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

# QUESTIONS?

SOF AT&L



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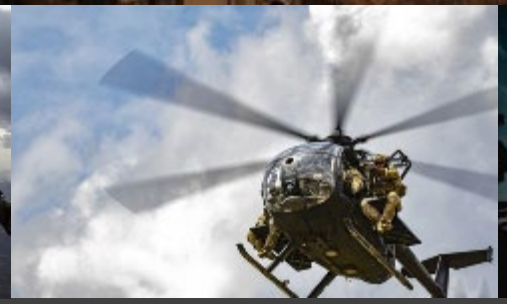
# USSOCOM PEO SOF WARRIOR

***Partner with us to accelerate SOF Innovation!***



# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**COL Joel Babbitt,** Program Executive Officer
**SOF Warrior Systems**

SOF AT&L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# Program Executive Office SOF Warrior (SW)

## Support to All Components

### MOBILITY
"Individual to Heavy Ground Vehicles"

Tactical All Terrain Vehicles (Light)

Non-Standard Commercial Vehicles

GMV 1.1

Ground Mobility Vehicle (Medium)

MRAP-ATV (Heavy)

### SURVIVAL
"Protection, Load Carriage & Medical"

Combat Uniform & Helmets

Individual & Combat Medic Kits

Body Armor / Load Carriage System

Casualty Evacuation

### LETHALITY
"Munitions, Visual Augmentation, Lasers & Weapons"

Night Vision Goggles

Combat Assault Rifles

Precision Strike

M72 LAW Light Assault Weapon

Aviation Ammo

Non-Standard Arms

Laser Acquisition Markers

Advanced Sniper Weapon & Ammo

## PEO Oversight & Support for JSOC

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# Key Initiatives

## Drivers

- New Capabilities
- New Material
- New Threats
- New Operational Paradigms

## Game Changers

- 6.5 CM/338 NM
- Polymer Ammo
- ULPE Body Armor
- Precision Strike
- Fusion NVGs
- ATAK
- CUAS
- AI for Small Unit Maneuver


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# Hyper-Enabled Operator (HEO) / Hyper-Enabled Teams (HET)

| Operational Assets - Centralized | | Tactical Assets - Decentralized |
|---|---|---|
| Close Air Support | → | Precision Strike Systems |
| Airborne ISR | → | Drones (AISUM) |
| PED Fusion Cell | → | AI-PED (NGIA) |
| Sit. Awareness at CP | → | TAK-Enabled Teams |

**Devolve capabilities from the LTC level to the CPT/MSG level**


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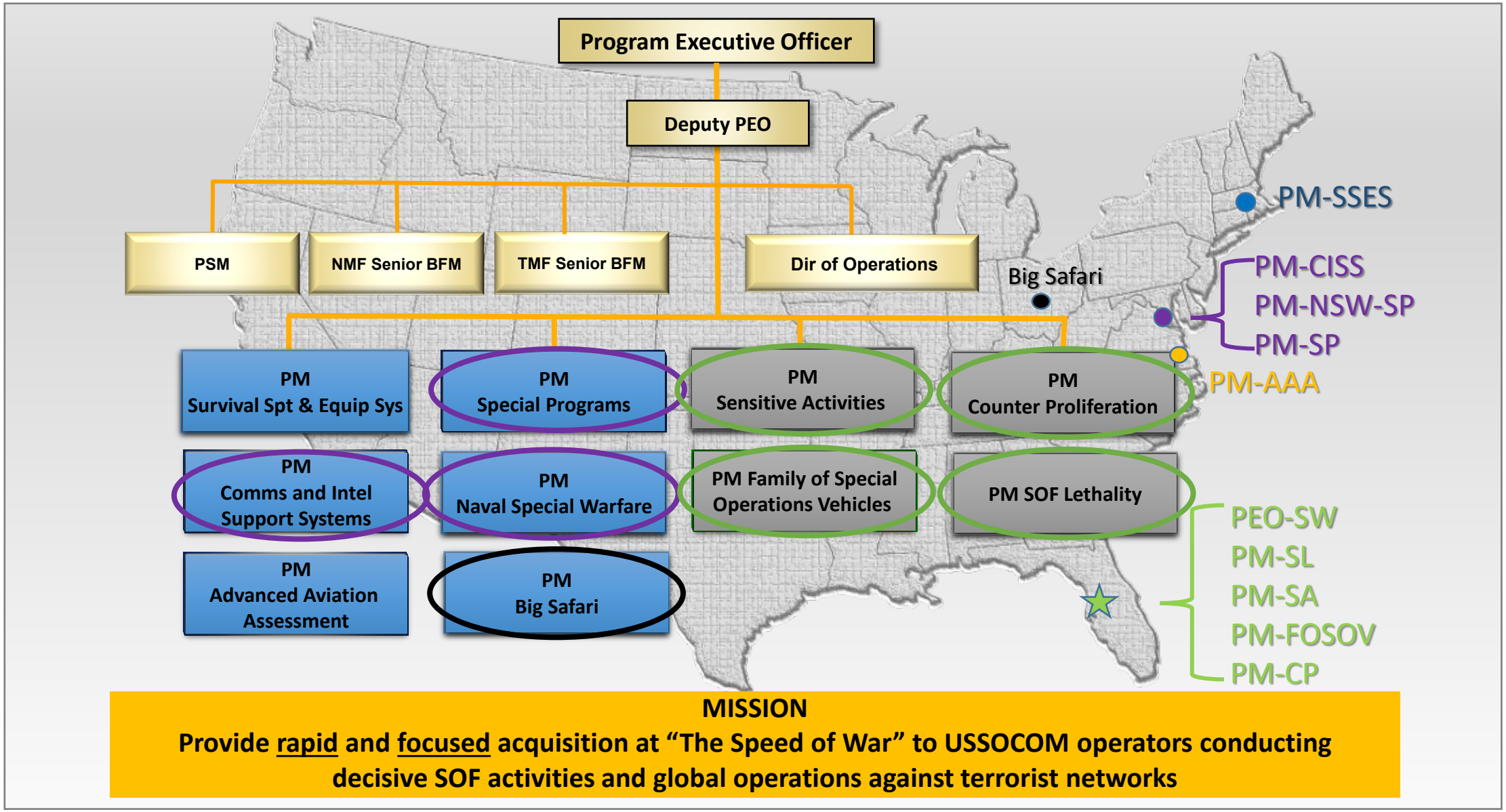
# PEO-SOF Warrior




**MISSION**

**Provide rapid and focused acquisition at "The Speed of War" to USSOCOM operators conducting decisive SOF activities and global operations against terrorist networks**



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# PM-CISS Technology Interest Items

## 5G Cellular Technologies

**Systems**:
- Intelligence systems
- Electronic warfare
- Communications platforms

**Needs:**
- Wideband antenna systems
- Low cost frequency down converters
- 3GPP R15 and R16 capable systems
- Software enabled - Hardware agnostic solutions
- Live data studies
- Low SWaP Internet of Things (IoT) devices
- Increase device privacy & integrity

**Keeping pace with Commercial Technology Trends**

## Data Analytics

**Systems:**
- Enterprise level solutions
- Tactical systems

**Needs:**
- Cross domain solutions that feed Data lake repositories
- Analysis of Structured and unstructured data sets
- Improvements to digital ecosystems to allow development and operationalize tools

**Data is only as Good as your Ability to Analyze and Produce Intelligence**


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# PM-CISS Technology Interest Items

## Artificial Intelligence/ Machine Learning

**Systems:**

- Enterprise level solutions
- Tactical systems

**Needs:**

- Supplement users – tipping and queuing
- RF signal analysis
- Natural language processing at low SWaP
- Low use language data sets
- Aided recognition – image, audio, etc.
- Trend, Pattern, and Risk Analysis
- Ability to rapidly overlay disparate data sets
- Process automation

**Big Data leads to the need for more Efficient Methods to aid the User and Analysts**

## Additive Manufacturing in the Field

**Systems:**

- Tactical systems

**Needs:**

- Rapid generation of items in the field
- High complexity items with integrated electronic/electrical components

## Supply Chain Risk Management

**Systems:**

- Processes

**Needs:**

- Authenticity of components
- Vendor supplier analysis


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# PM-CISS Contact Information

**Program Manager – LTC Aron Hauquitz**
**703.664.5097**

**Deputy Program Manager – Mr. George Antoniou**
**703.664.5042**

**APM Mission Systems – MAJ Sean Godfrey**
**703.664.5000 x5043**

**APM SIGINT – MAJ Eric Stangle**
**703.664.5000 x2025**

**APM SIGINT – Mr. Dudley Nesbitt**
**703.664.5000 x 3783**

**APM Net Centric– MAJ Christopher Waliser**
**703.664.5000 x2266**

**APM Special Comms – Mr. Jordan Reidel**
**703.664.5000 x2145**

**Lead Systems Engineer – Mr. David Weisbecker**
**703.664.5000 x3782**

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# Next Gen Identification and Awareness (PM SP)

**Core Technology Components/Capabilities:**

- Biometrics
- Communications
- Sensor Employment
- Data Analytics/Fusion

**End User Capability:**

- Faster Rational Decision Making
- Greater decentralized awareness
- Cognitive overmatch
- End user visualization (data/information)

**Acquisitions Objectives:**

- Vendor teaming for exponential innovation
- 12-18 months efforts to transition to operational users
- Small Business Focus streamline for commercial best business practices (payments)
- Negotiate IP rights

**Challenges**

**Opportunities**

**Contested air/space/EW domains where the adversary has access to advanced commercial technology. Our advantage will come from our ability to find new access to data, more efficient means of analysis, and faster extraction of information via multiple sensors and edge processing.**



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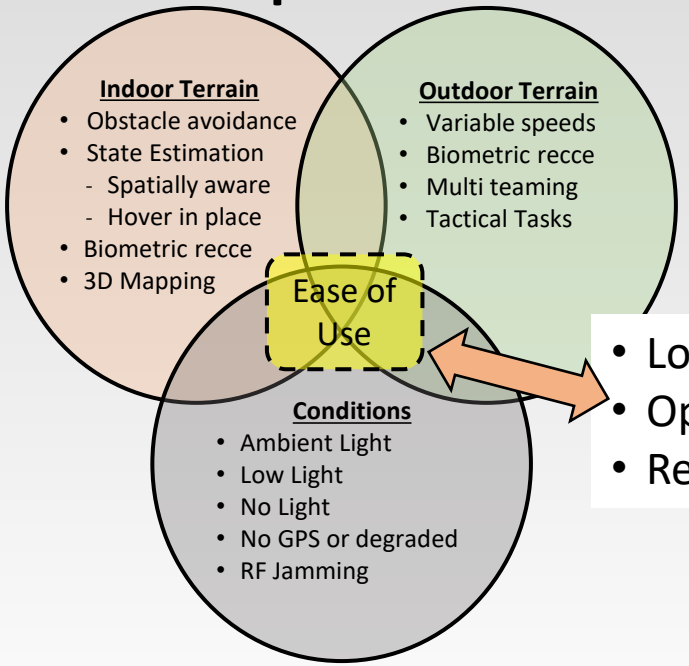
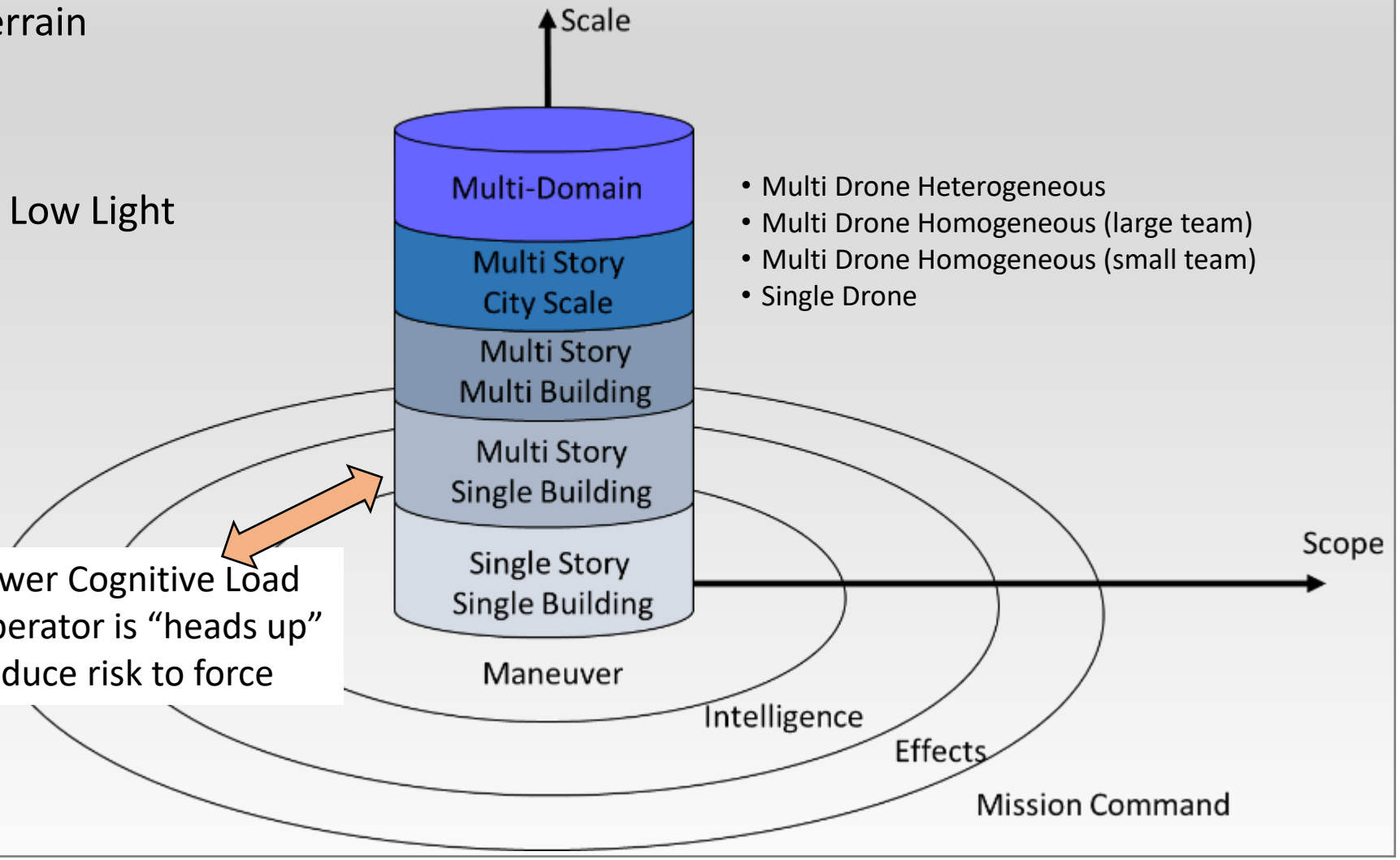
# AI for Small Unit Maneuver Ops Use Cases (PM SP)

**Operational focus on tactical tasks & mitigating risk in the TACITICAL DOMAIN, where higher losses are traditionally incurred.**

- **Locations**
  - Inter/Intra Dense Urban Terrain
  - Rural Terrain
  - Foot Movements/Offsets
  - Tunnels/Caves
  - GPG/non-GPS, Dark, Light, Low Light
- **User Experience:**




- Lower Cognitive Load
- Operator is “heads up”
- Reduce risk to force




- Multi Drone Heterogeneous
- Multi Drone Homogeneous (large team)
- Multi Drone Homogeneous (small team)
- Single Drone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# NGIA and AISUM OTA Contact Information (PM SP)

- **AISUM Opportunities – posted to OTA participants through beta.sam.gov (Vision Based Navigation, Autonomous sUAS)**
- **NGIA Opportunities – posted to OTA participants through beta.sam.gov (See Through Wall Radar, Data Analytics)**
- **How do I find this NGIA Posting? - Keyword Search:**
  - W911QY-19-S-0008 (beta.sam.gov)
  - "NGIA" (beta.sam.gov)
- **POCs:**
  - Richard Totten: richard.w.totten2.civ@mail
  - MAJ William Taylor: william.l.taylor118.mil@mail.mil
- **Posting from 5 April 2019 to 5 April 2022**
- **Set aside as Research and Development**
- **Agreement value**
  - Indefinite quantity awards up to $40mil each for Projects/Prototypes
  - Tailorable payments to industry (fixed milestone payments monthly)
  - To date: $17.3Mil spent towards NGIA
- **Participants within the OTA construct:**
  - Must sign a Participation Basic Agreement (PBA)
  - Participation require no fees


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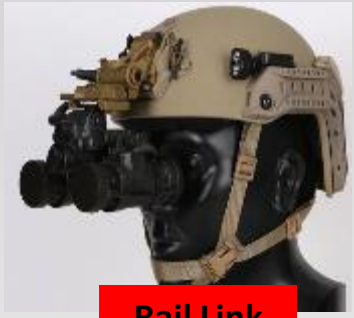
# Next Gen – Head Borne System (NG-HBS) (PM SP)

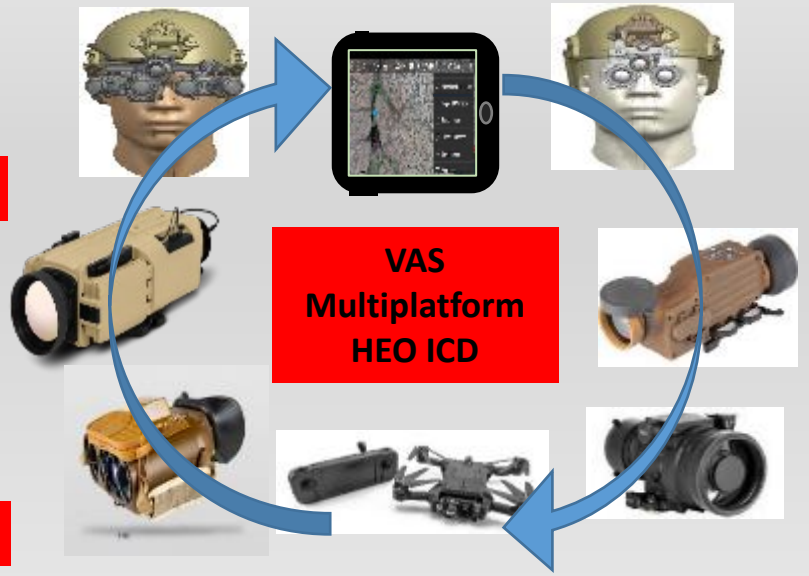
- **Fused Panoramic:** Smart Wide Field Of View (WFOV) Goggles with thermal overlay and high performing tubes.
- **Smart Battery Pack (SBP):** ATAK integration through SBP (BT/WIFI).
- **Rail Link:** New rail system with embedded visible flashlights, infrared (IR) lights, visible.IR strobes, & data/power nodes.
- **VAS Multiplatform Hyper Enabled Operator (HEO):** Develop Architecture/protocol for all Visual Augmentation Systems (VAS) and other components that communicate with VAS devices

Fused Panoramic



Rail Link

Smart Battery Pack




## ACQUISITION STRATEGY

- Prime Vendor Contracts
- IDIQ

## PERIOD OF PERFORMANCE

- Contract through FY24
- Follow-on award TBD

## MILESTONES

- Operational User Assessment (1QFY22)
- Production Decision (2QFY22)

## POINT OF CONTACT

PMSP VAS

MAJ Jon Talis: jonathan.j.talis.mil@mail.mil

Justin Sloane: Justin.m.sloane2.civ@mail.mil

## FUNDING

- FY20 - $2.8M RDT&E
- FY21 - $2.5M RDT&E

## CURRENT CONTRACT/OEM

- L3Harris Technologies, Inc
- Applied Research Associates, Inc
- Gentex Corp
- Sandia National Labs (SNL)



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# Electronically Steered Antenna– ESA (PM SP)

- **Wafer:** Size of a laptop but capable of operations on Low Earth Orbit (LEO) and Geosynchronous Earth Orbit (GEO) constellations. Projected to provide ESAs in both Ka and Ku band.
- **Lite Comms:** Providing mixture of Putter – Jumpable; Wedge- FOB/ASB and Cart – Ground/Maritime COTM. Operates on traditional KU GEO satellites, OVZON 30B network and Starlink networks
- **GETSAT:** Small antenna configuration. Capable of operating LEO and GEO constellations and will operate in Ka, Ku, and 30B.

Wafer

Putter

Wedge

Lite Comms

GETSAT

Cart

## ACQUISITION STRATEGY

- Prime Vendor Contracts

## PERIOD OF PERFORMANCE

- Contracts will be yearly competes as technology matures

## MILESTONES

- Operational User Assessment (1QFY23)
- Production Decision (3QFY23)

## POINT OF CONTACT

PMSP C4-J

MAJ Brian McNally: brian.c.mcnally.mil@mail.mil

Matthew McGraw: mcgrawm2@jdi.socom.mil

## FUNDING

- FY19 – 20 $4.6M RDT&E
- FY21 – No Funding – development conducted

## CURRENT CONTRACT/OEM

- Wafer
- GETSAT
- Lite Coms (T)



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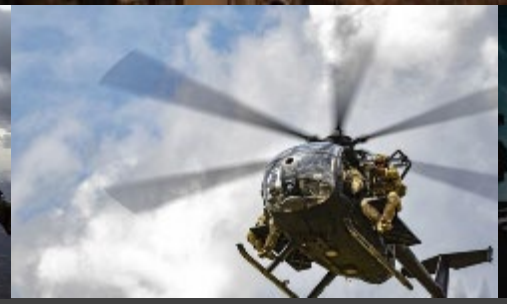

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Adam Fields,** Program Manager

**Survival, Support & Equipment Systems**

SOF AT&L



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# SOF Personal Equipment Advanced Requirements (SPEAR) Portfolio Overview (PM SSES)

VAS Mounts

Helmets

Hard Armor

Eyewear

- Body Armor Load Carrying Systems / Ballistic Protection
  - Body Armor Vests
  - Plates / Soft Armor
  - SOF Operator Eye Protection
  - Load Carrying Systems
  - Safety Belts and Lanyards
  - Backpacks
- Environmental Protection
  - Military Alpine Recce System
  - Modular Glove System
  - Signature Management
- Head borne Systems
  - Hearing Protection
  - Communications Interface
  - Ballistic Helmets
  - VAS Mounts

Body Armor Vests

Modular Glove System

Backpacks



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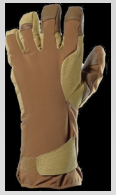
# SPEAR Recompete Roadmap (PM SSES)

| | FY21 | FY22 | FY23 | FY24 | FY25 |
|---|---|---|---|---|---|
| PCU<br> <br>Protective Combat Uniform | Sustainment | | | Presolicitation Testing/Market Research | Recompete |
| | Continuous Market Research | | | | |
| MGS<br>  <br>Modular Glove System | Sustainment | | | Presolicitation Testing/Market Research | Recompete |
| | Continuous Market Research | | | | |
| Backpacks<br> <br>Rucksack Suite | Sustainment | | | | |
| | | Presolicitation Testing/Market Research | Recompete | | |
| | Continuous Market Research | | | | |
| BAVs<br> <br>Body Armor Vests | Sustainment | | | | |
| | | Presolicitation Testing/Market Research | Recompete | | |
| | Continuous Market Research | | | | |
| Hard Armor<br> <br>Ballistic Plates | Sustainment | | | | |
| | | | | | Presolicitation Testing/ Market Research |

Sustainment
Presolicitation
Recompete



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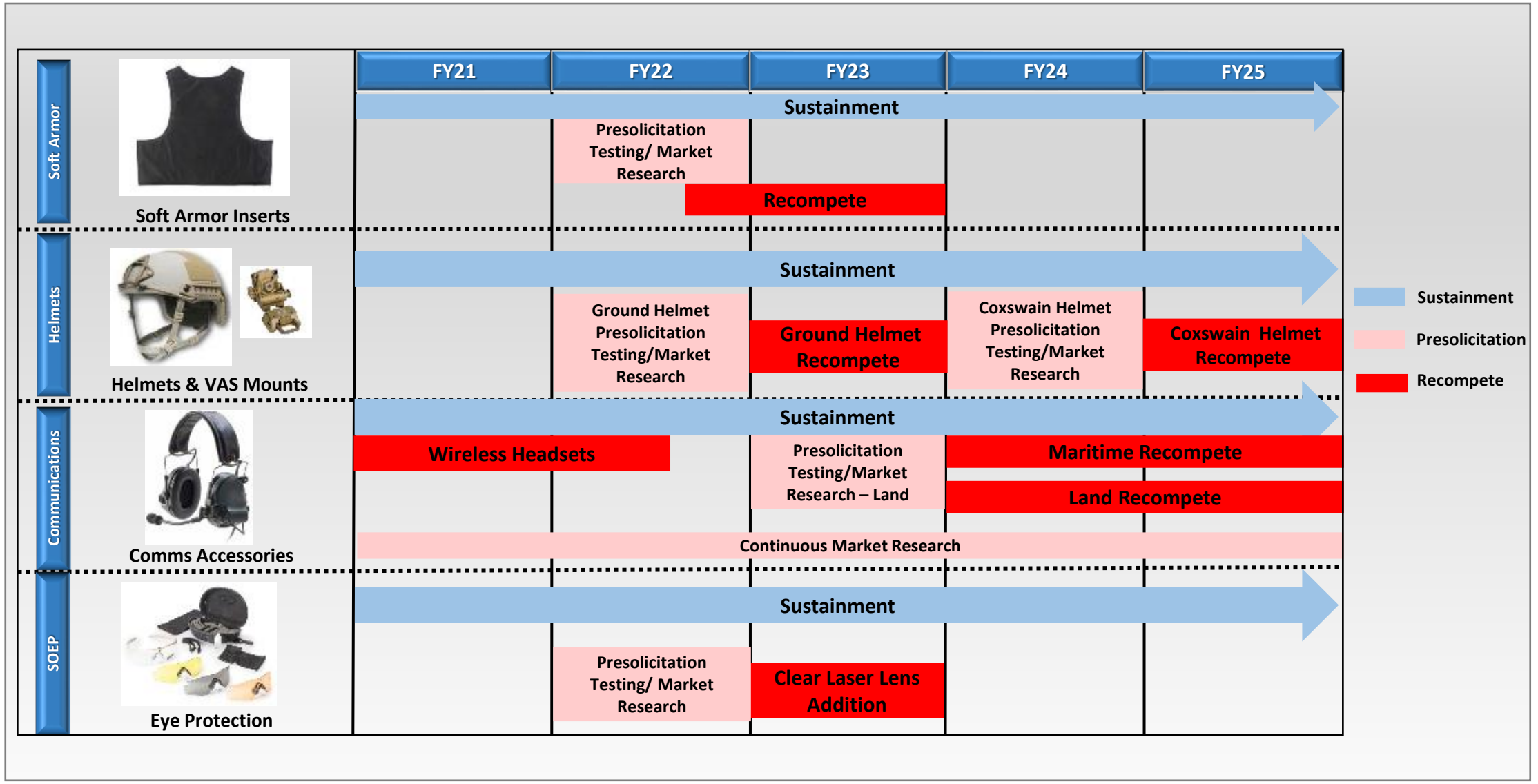
# SPEAR Recompete Roadmap (PM SSES)



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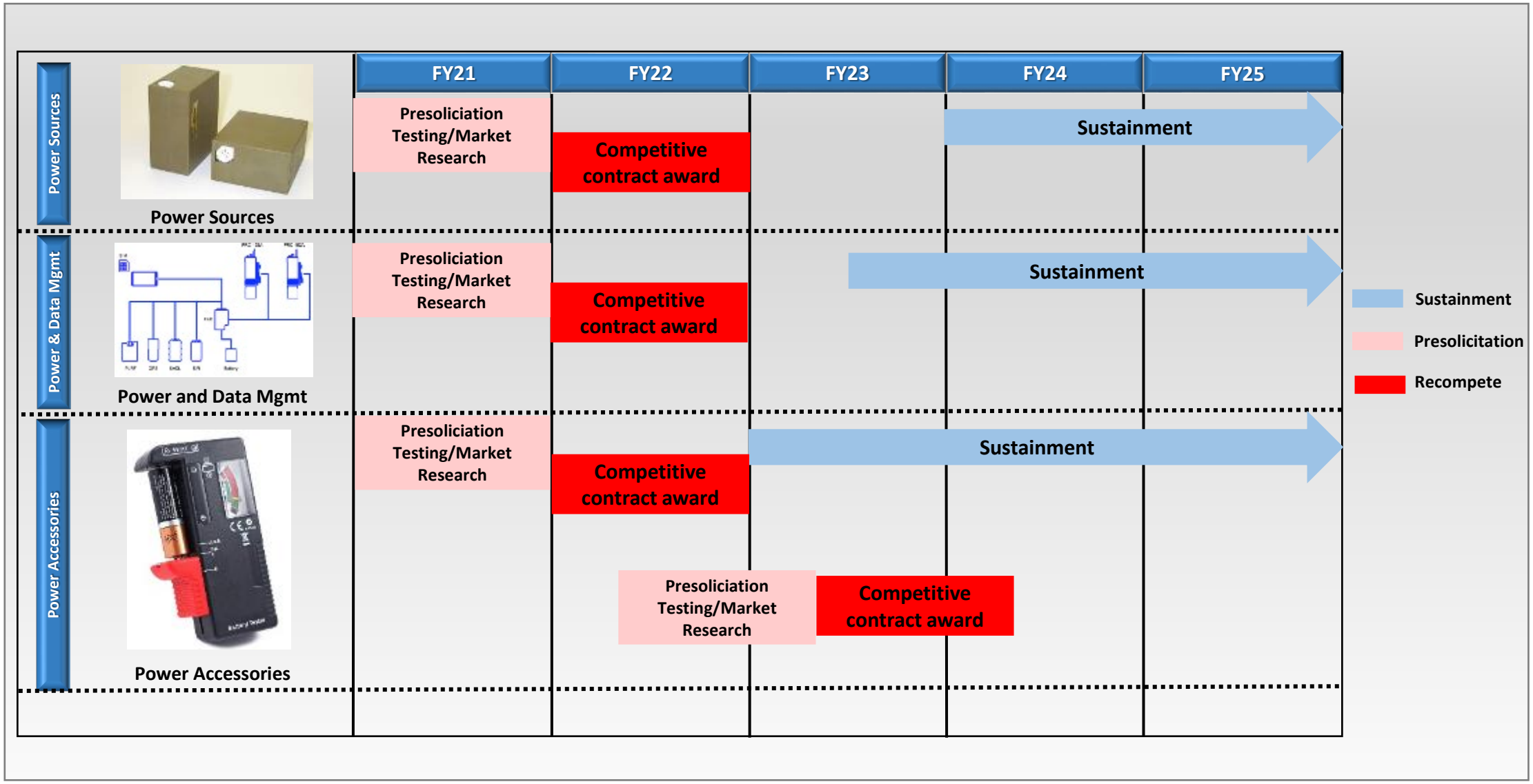
# Power Compete Roadmap (PM SSES)



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# Capability Areas of Interest (PM SSES)

- Lighter weight body armor to defeat AP and non-AP rifle rounds
- Lighter weight ballistic helmets to defeat non-AP rifle rounds
- Single variable light transmission eyewear lens that meets ANSI optics, ballistic, and laser standards; replaces the separate clear, laser, and tinted lenses that are currently fielded
- Cost effective and durable anti-fog solutions for eyewear
- Militarized USB-C connectors
- Flame resistant (FR) textiles that perform as well as non FR in abrasion, moisture vapor transmission rate (MVTR) and clothing insulation CLO value.
- Sound Localization in headsets that performs close to natural hearing


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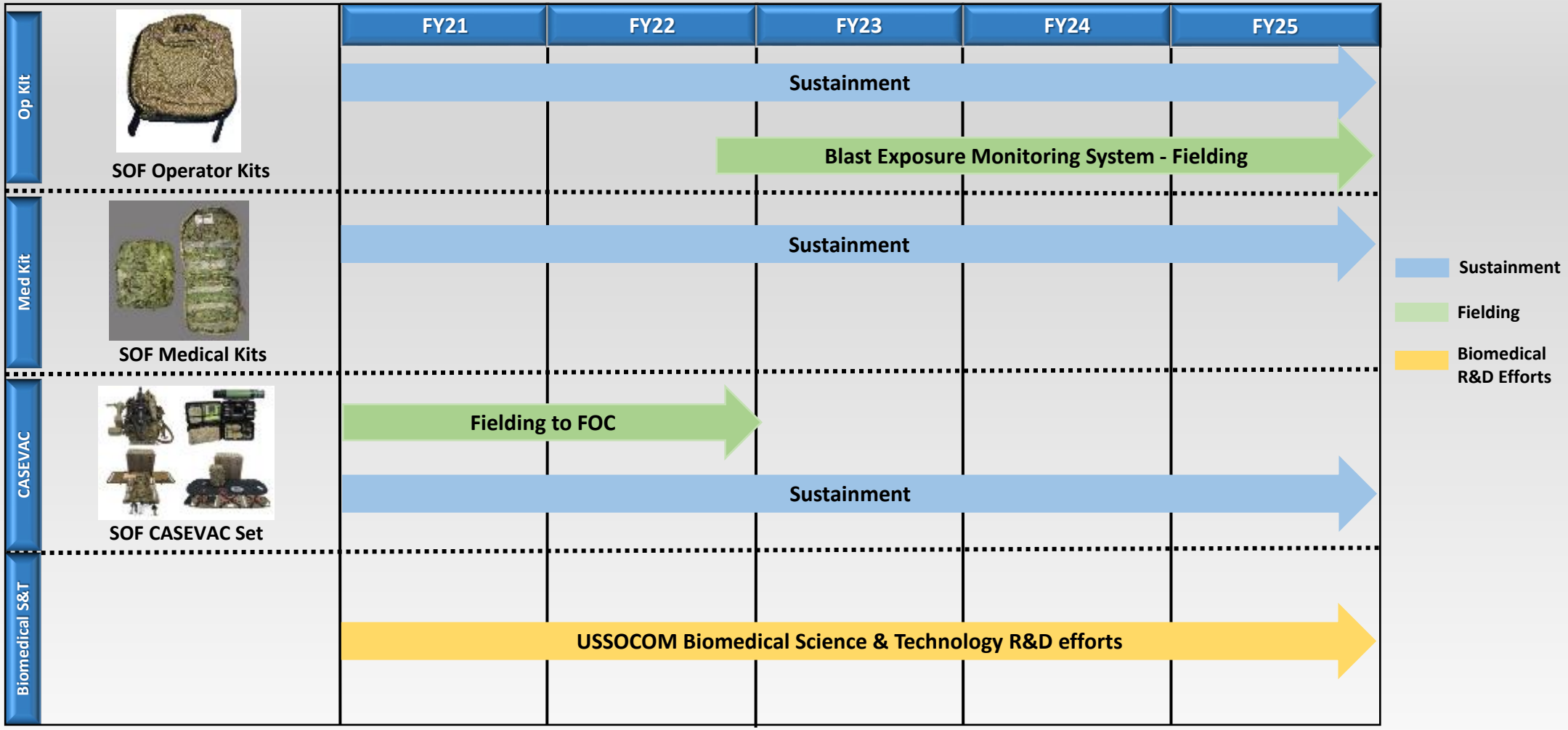
# Medical Portfolio Roadmap (PM SSES)



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# Capability Areas of Interest (PM SSES)

- Field Portable Micronized Power Infuser *Must be lightweight, small in cube, battery powered, and be able to support slow and high flow rates or whole blood and crystalloid/colloid products.
- Portable Oxygen Generator *Must be under 14lbs and provide adjustable continuous flow at a minimum of 1-3 LPM with a desired flow of 6+ LPM.
- Oxygen concentrator that has a user replaceable sieve bed.


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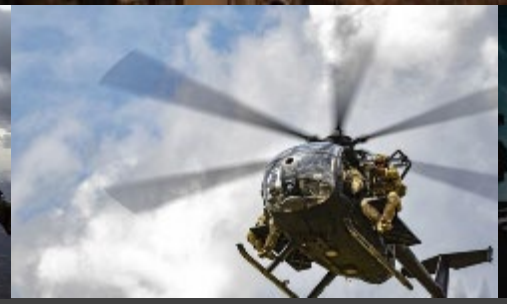

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**LTC John M. (Tosh) Lancaster,** Program Manager
**SOF Lethality**

SOF AT&L



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# Weapons Portfolio Overview

## (Rifles, Machine Guns, Handguns)

| | FY21 | FY22 | FY23 | FY24 | FY25 |
|---|---|---|---|---|---|
| **RIFLES** | | | | | |
| Mid-Range Gas Gun (MRGG) | | RFP | MUA / IDIQ | Fielding | |
| **MACHINE GUNS** | | | | | |
| Lightweight Medium MG (LMG-M) | RFP | MUA / IDIQ | Fielding | | |

| | | | | | |
|---|---|---|---|---|---|
| **Dominance Delivered** | | Capability Increase | Capability Increase | Capability Increase | Capability Increase |
| **S.M.A.R.T. CYCLE** | CAPABILITY SET | CAPABILITY SET | CAPABILITY SET | CAPABILITY SET | CAPABILITY SET |



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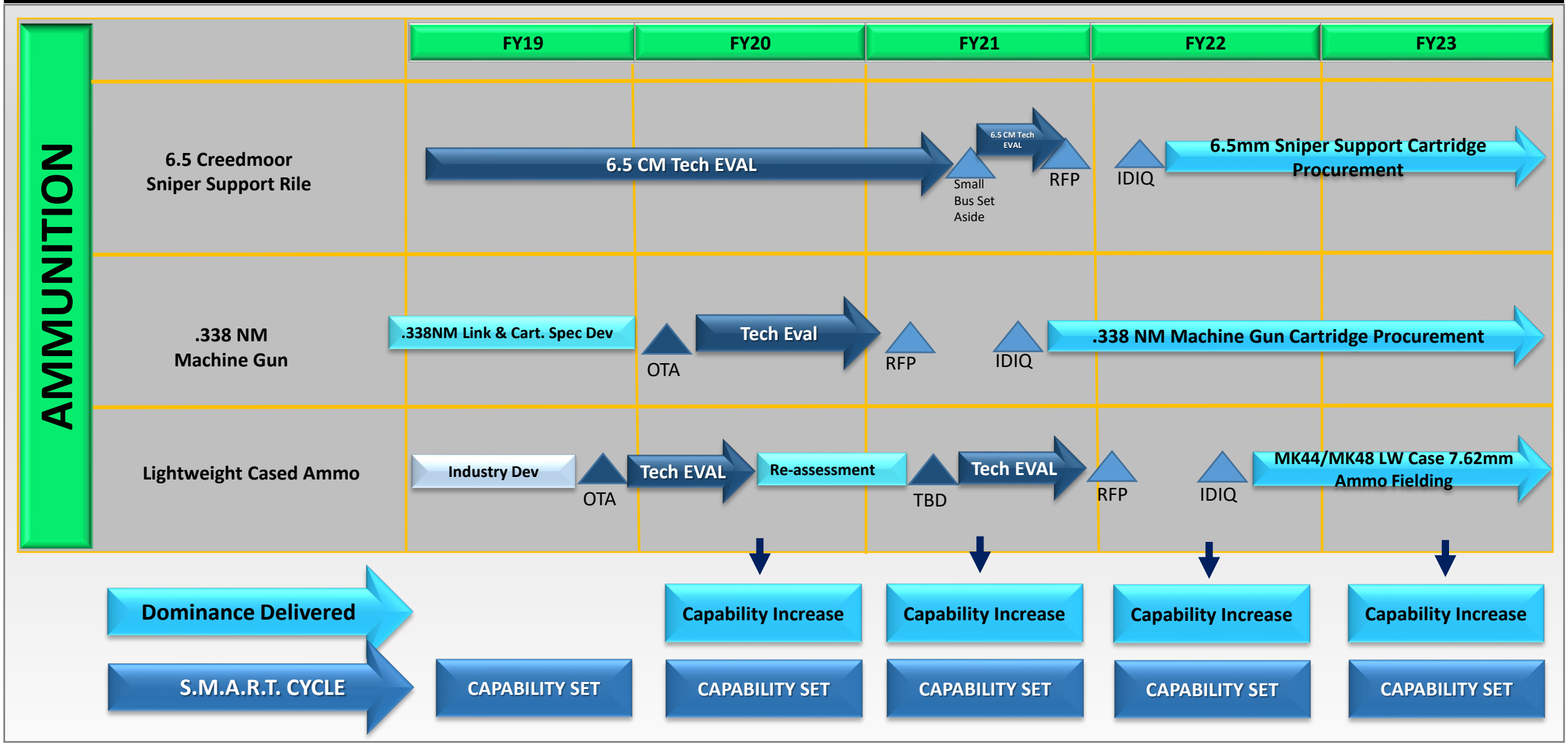
# Ammunition Portfolio Overview

## (Air Delivered, Bullet, Demolition & Shoulder Launched)



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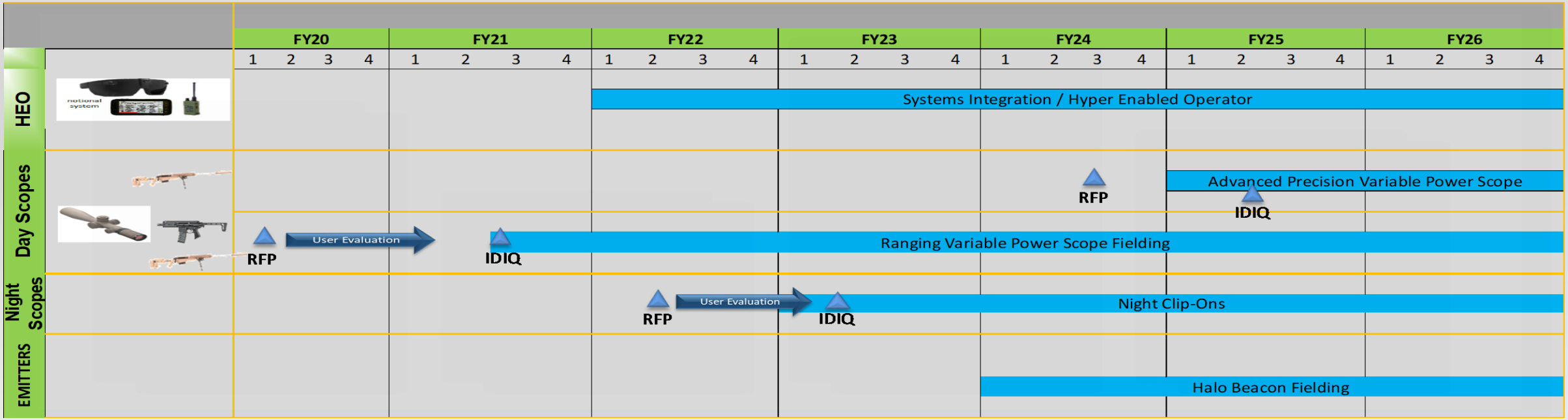
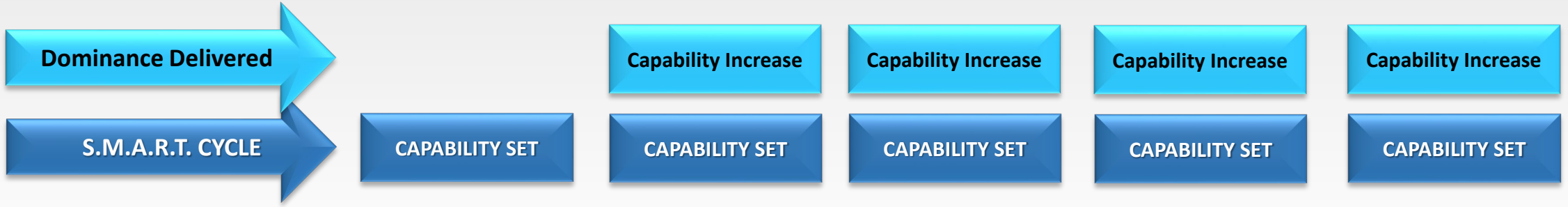
# Visual Augmentation Systems Portfolio Overview

## (Head Mounted, Weapons Mounted, Emitters, One World Simulations)



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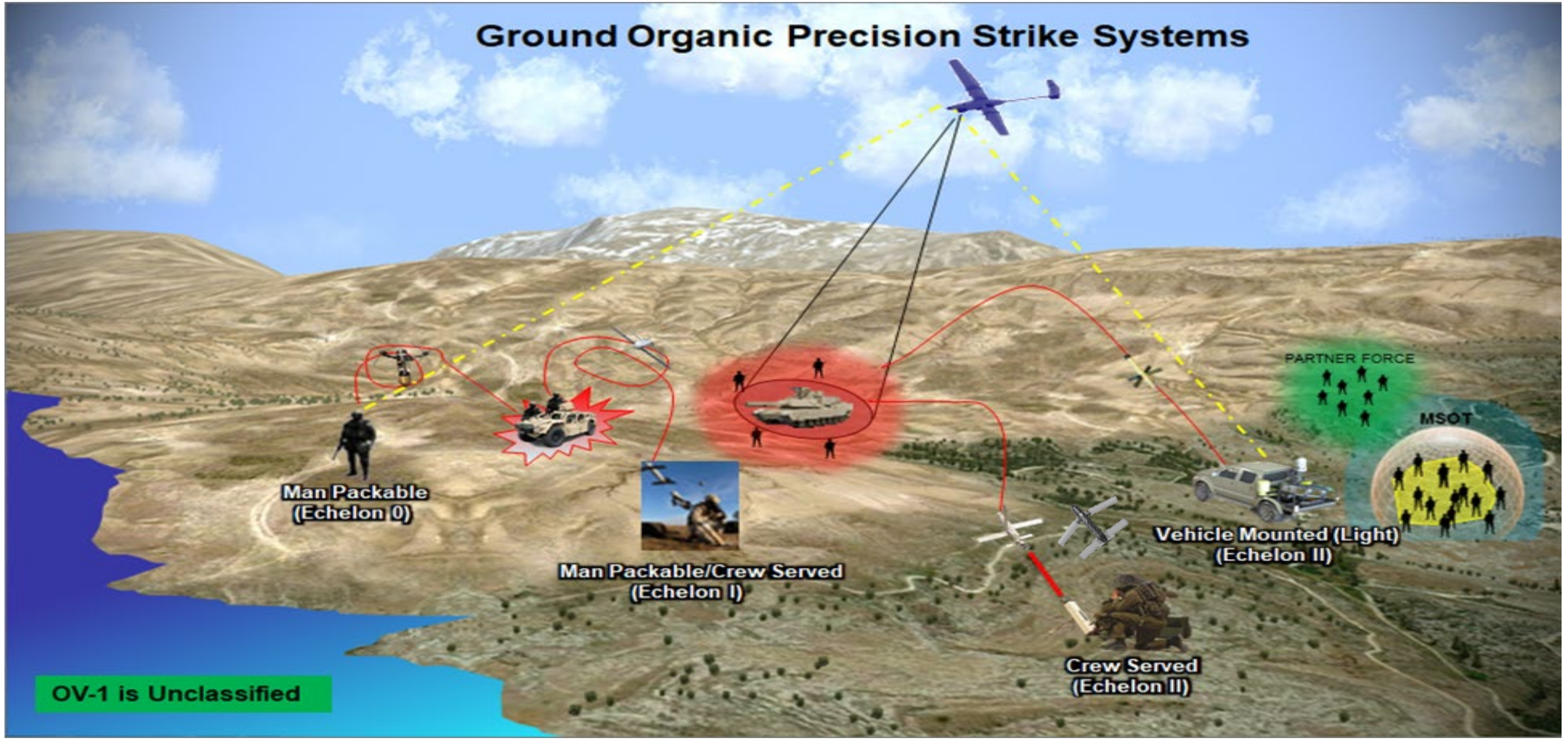
# Ground Organic Precision Strike Systems (GOPSS) Overview





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# Ground Organic Precision Strike Systems Portfolio Overview

Echelon 0

GOPSS Echelon 0

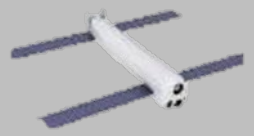
Echelon Zero Working Group

AMTC Topic Announcement

OTA

Echelon I

SB300



Hero-30SFR

OTA

Product Development

Combat Evaluation

CFD&R

Hero-30SFR Procurements

Echelon II (Crew-served or Vehicle Mounted)

SB600

Hero-120SF

Echelon II – Crew Served (Loitering)

Product Development

Combat Evaluation

CFD&R

Hero-120SF Procurements

Spike NLOS

OTA

Echelon II Mounted (Direct Attack)

Combat Evaluation

CFD&R

Spike NLOS All Up Rounds (AUR) Procurements

Dominance Delivered

Capability Increase

Capability Increase

Capability Increase

Capability Increase

S.M.A.R.T. CYCLE

CAPABILITY SET

CAPABILITY SET

CAPABILITY SET

CAPABILITY SET

CAPABILITY SET

FY20

FY21

FY22

FY23

FY24



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# Development Interests (PM SL)

- Sniper scope with atmospheric summation capability
- On-body network (HEO)
- Power management & wire reduction
- PSS Data-link hardening


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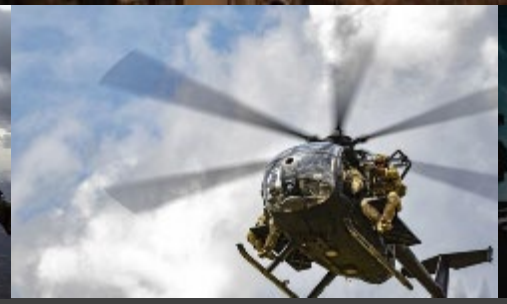

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Kevin Cady,** Program Manager
**Naval Special Warfare**

SOF AT&L



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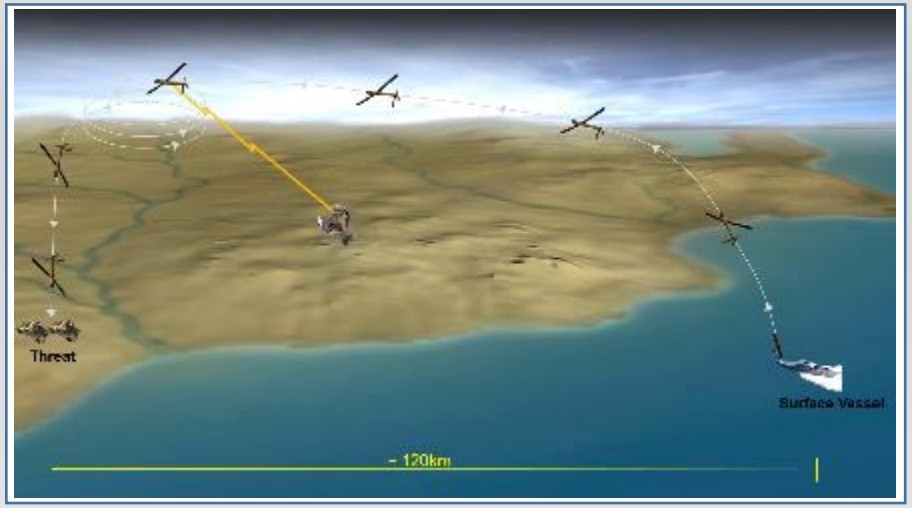
# Maritime Precision Engagement - Munition

## CONCEPT OF EMPLOYMENT




## DESCRIPTION

- Organic UAS-like capability to provide Kinetic fires payloads against maritime and littoral targets without breaking NSW Combatant Craft signature survivability in Medium to High detection threat environments.
- SOCOM-Validated CDD: March 2018
- Highlights:
  - 15kg (T) 30kg (O) Payload
  - 30km (T) 120km (O); 45 min (T) 75 min (O)
  - Cold Launch; Constrained magazine SWAP; MITL/Update post-launch

## ACQUISITION STRATEGY

- Middle Tier Acquisition (MTA) Rapid Prototyping
- Combination of Government labs and SMB
- NSW leveraging USA-funded airframe; USG kinetic payload
- Airframe will be continuously enhanced to meet evolving requirements: Block 1 (FY20-32), 2 (FY24-36), 3 (FY33-50)

## PERIOD OF PERFORMANCE

- FY21 with 5 Option years
- IOC tied to PEO-M MPE-Integration PoR
  - CCM Craft Modification Schedule

## MILESTONES

- Industry RFI returned 05/20; Acq Strat approved 08/20
- SRR conducted 11/20; Risk Reduction Testing Q3-4FY21
- ALTIUS-700 fabrication commenced 02/21
- PDR 11/21; CDR 10/22; IOC FY24; FOC FY25

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

## CURRENT CONTRACT/OEM

- DTIC (NSWC Crane); ALION Sciences (PRIME)
  - AREA-I
- Multiple MIPRs through Govt Labs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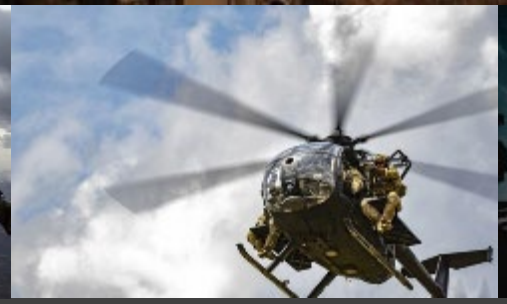

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**LTC Ramsey Oliver,** Program Manager
**Counterproliferation**

SOF AT&L



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# Next Gen Electronic Counter Measures (ECM)

## Expeditionary Fixed Site - Mounted - Dismounted

- Creating a linked set of stakeholder solicitation artifacts, capability assessments, and requirements
- Focused on Multi-Mission capability solutions through an Analysis of Alternatives & development
- Seeking industry engagement to capture advanced technology & techniques to counter emerging threats across the spectrum of warfare
- Capabilities are developed as National-to-Theater transition programs

### ACQUISITION STRATEGY

- Acquisition Strategy in Development

### PERIOD OF PERFORMANCE

- TBD
- Anticipate Development – FY23-FY24
- Anticipate Production – FY25-26

### MILESTONES

- Requirements Study: FY21-FY22
- Analysis of Alternatives: FY22
- Next Gen CDD: FY23

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- EGON – L3H/NEXGEN Communications
- Modi – Sierra Nevada Corporation


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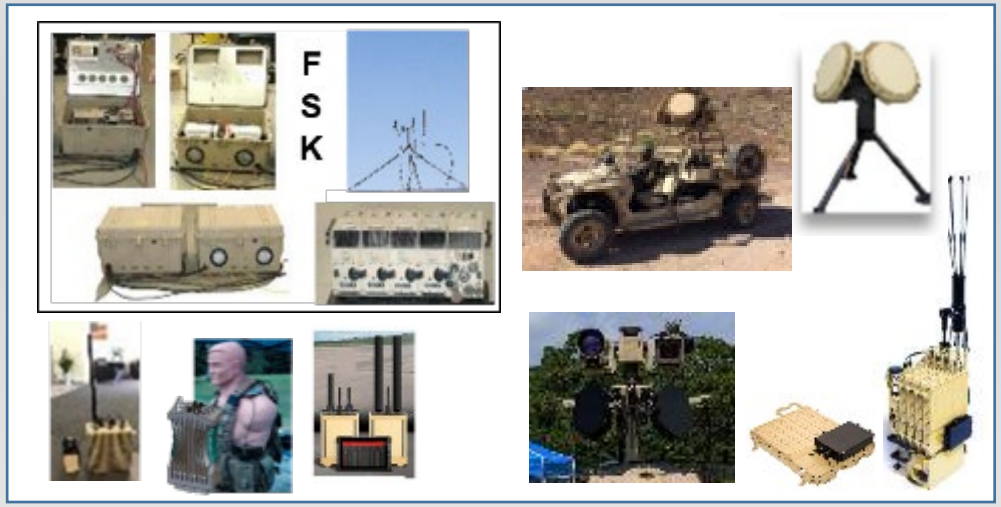
# Counter Unmanned Systems (CUxS) (PM CP)

## Expeditionary Fixed Site - Mounted - Dismounted




- Prioritizing Integrated & Autonomous System of Systems – Maximum Modularity, Tailored to the Mission
- Seeking opportunities to pursue industry developed software, techniques, and algorithms for use in government software/hardware
- Best of Breed Sensor Evaluations – Non-RF Passive Detection; Group 3 Defeat; Other Unmanned System Detect/Defeat; etc.

### ACQUISITION STRATEGY

- Prototype OTA w/ Follow-on Production - Active Source Selection for Systems Integration Partner (SIP)

### PERIOD OF PERFORMANCE

- 1 Base + 4 Option Years w/ 5 Incentive Year Options

### MILESTONES

- Operational Testing – 2QFY22
- (I)ATO / (C)F&DRs – 3QFY22

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

### FUNDING

- $150M over FYDP

### CURRENT CONTRACT/OEM

- SIP Award – 4QFY21
- Various Sensor Contracts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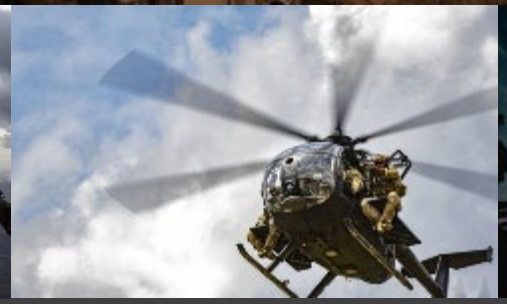

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**LtCol Alfredo Romero,** Program Manager
**Family of Special Operations Vehicles**

SOF AT&L



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# Vehicle Lifecycle Overview (PM FOSOV)

## Vehicles in Concept

Joint Light Tactical Vehicle (JLTV)
SOF Mods

Purpose Built
Non-Standard Commercial Vehicle

Hybrid-Electric Ground Mobility
Vehicle 1.1

## Vehicles in Production

Non-Standard Commercial Vehicle

Light Tactical All Terrain
Vehicle- Diesel

## Vehicles in Sustainment

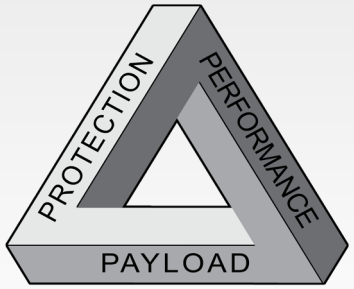
GMV 1.0

MRAP-ATV (M-ATV)

## Vehicles in Sustainment

MRAP - RG33 A1

Ground Mobility Vehicle 1.1
(GMV 1.1)



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# Key Initiatives (PM FOSOV)

- The LTATV is a SOF modified commercial off the shelf (COTS) lightweight vehicle that is internally air transportable via V-22, H-53 and H-47 aircraft. It consists of two and four seat variants with the ability to change configuration based upon mission and/or threat. It's intended to perform a variety of missions to include offset infiltration, reconnaissance and medical evacuation.
- Areas of Interest:
  - Autonomous Capabilities
  - Signature Management
  - Communications Suite

## ACQUISITION STRATEGY

- Non Developmental Item (NDI)
- Life Cycle Replacement Efforts
- Performance Testing Hybrid Diesel/ Electric Variants

## PERIOD OF PERFORMANCE

- Follow-On Contract: FY20 – FY25

## MILESTONES

- Performance Testing – in progress
- Autonomous Study – in progress
- IOT&E – 4QFY21

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

## CURRENT CONTRACT/OEM

- Polaris Defense (Medina, MN)
- 5 Year IDIQ: May 2020 – May 2025


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# Non-Standard Commercial Veh (NSCV) (PM FOSOV)

- The current NSCV is based on commercial vehicle platforms that are enhanced with mission-specific modifications to increase protection, mobility performance, and durability.
- Areas of Interest:
  - Lightweight Armor Materials
  - Lightweight Vehicle Components/Mods
  - Lifecycle Improvement

## ACQUISITION STRATEGY

- NSCV2: Full & Open Competition
- P-Built: Competitive OTA for Prototype (NAMC Consortium), w/ Follow-on Production
- NSCV3: Acq Strategy undetermined at this time

## PERIOD OF PERFORMANCE

- Sustainment Ongoing
- Purpose Built NSCV: FY20 Prototype OTA Award

## MILESTONES

- NSCV2 PQT completion: 1QFY20
- PB NSCV prototype testing begins: 3Q FY21
- PB NSCV prototype testing completion: 2 Q FY22

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

## CURRENT CONTRACT/OEM

- Battelle Memorial Institute (Columbus, OH)
- 7 Year IDIQ: July 2016 – July 2023



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# Ground Mobility Vehicle 1.0 (GMV 1.0) (PM FOSOV)

- The Ground Mobility Vehicle 1.0 (GMV 1.0) is a medium class High Mobility Multipurpose Wheeled Vehicle (HMMWV) with Special Operations - Peculiar (SO-P) modifications. Several variants have supported Special Operations Operators reliably for over 12 years in contingency and combat operations.
- Areas of Interest:
  - None at this time

## ACQUISITION STRATEGY

- Modified Service Common (MFP-2)

## PERIOD OF PERFORMANCE

- Sustainment / Divestiture

## MILESTONES

- Production ended in FY06
- Vehicle Reset has been discontinued

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

## CURRENT CONTRACT/OEM

- No Active OEM Contracts



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# Ground Mobility Vehicle 1.1 (GMV 1.1) (PM FOSOV)

- The GMV 1.1 is a highly mobile CH-47 internally transportable Special Operations combat vehicle with the operational flexibility to support a wide range of lethal and non-lethal Special Operations missions and core activities.
- Areas of Interest:
  - Lightweight Armor Material
  - Improved Payload
  - Storage Capacity
  - Vehicle Weight Reduction

## ACQUISITION STRATEGY

- Full and Open Competition
- Single Vendor Award
- Produce & Evaluate Test Vehicles
- Full-Rate Production Decision

## PERIOD OF PERFORMANCE

- Sustainment ongoing
- IROAN Pilot (50 Vehicles) ongoing

## MILESTONES

- IOT&E: November 2015
- First Unit Equipped: April 2016
- Full Rate Production Decision: March 17
- Initial Operational Capability: April 2021

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

## FUNDING

## CURRENT CONTRACT/OEM

- General Dynamics Ordnance and Tactical Systems (St. Petersburg, FL)
- 8 Year IDIQ: August 2013 – May 2021



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# Mine Resistant Ambush Protected Vehicle (MRAP/M-ATV) (PM FOSOV)

- The Mine Resistant Ambush Protected (MRAP) family of vehicles currently consists primarily of the MRAP All Terrain Vehicle (M-ATV), and RG-33-A1. Vehicles are modified to meet SOF unique requirements.
- Areas of Interest:
  - Active Reset Operations
  - Obsolescence Management
  - Sustainment Cost Reductions
  - C4ISR Integration Cost Reductions

## ACQUISITION STRATEGY

- Original Production (JPO MRAP Contracts)

## PERIOD OF PERFORMANCE

- Sustainment ongoing
- Reset kicked off in FY19 at Red River Army Depot

## MILESTONES

- In Sustainment

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

## CURRENT CONTRACT/OEM

- No Active OEM Production Contracts
- FSR Support: Mantech / Lockheed Martin



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# Joint Light Tactical Vehicle (JLTV) (PM FOSOV)

- Joint Program Office (JPO) – USA/USMC
- To be fielded to SOF Units by Services
- The JLTV's intent is to restore light tactical mobility to combat arms, combat support and combat service support/sustainment of forces by providing: protection (scalable armor); transportability (rotary/fixed wing, expeditionary sealift); mobility (off road, urban areas, all weather); sustainment (reliability, maintainability, onboard and exportable power) and Networking (integrated C4)

**Targeting Limited SOF Modifications (C4I/ECMS)**

## ACQUISITION STRATEGY

- Modified Service Common (P-2)
- SOF Mod Requirements Development ongoing

## PERIOD OF PERFORMANCE

- FY20 & beyond

## MILESTONES

- SOF Limited User Evaluation – January 20
- SOF C4I Integration kit Design/Testing – FY21/22

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

## CURRENT CONTRACT/OEM

- Oshkosh Corporation (JPO)
- No Active SOCOM Contracts


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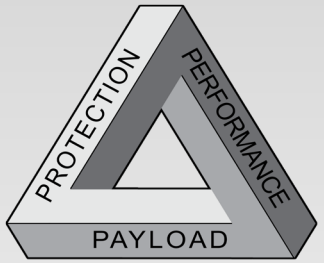
# PM FOSOV Technology Insertion
# Recap of Industry Opportunities

- **Lightweight Armor for Ground Mobility Platforms**
  - Current armor solutions are heavy, limit available payload options and decrease vehicle durability.
  - Lightweight and cost effective technologies that can replace current armor solutions.
- **Lightweight Vehicle Components/Mods**
- **Low SWAP / High Output Alternators**
- **Hybrid/Electric Vehicle Capabilities**
  - Hybrid/Electric Components (Motors, Batteries)
- **Autonomous / Semi-Autonomous Vehicle Capabilities**
- **Advanced Situational Awareness (MRAP) – Battlefield Awareness**
- **Telepresence for remote vehicle operation and/or Situational Awareness (SA)**
- **Augmented Reality Maintenance Capabilities**



The Iron Triangle

| ACTIVE PRODUCTION | ACTIVE SUSTAINMENT | VEHICLES IN CONCEPT |
|---|---|---|
| • NSCV | • GMV 1.1 | • Purpose Built NSCV |
| • LTATV | • LTATV (Lifecycle Replacement every 3-4 yrs) | • Hybrid/electric GMV 1.1 |
| | • M-ATV | • Hybrid/electric LTATV |
| | • GMV 1.0 (SOF HMMWV) | • Autonomous LTATV |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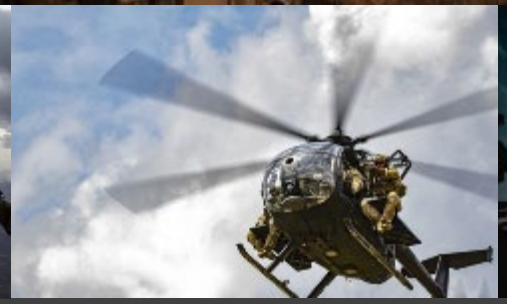

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

## Questions

SOF AT&L



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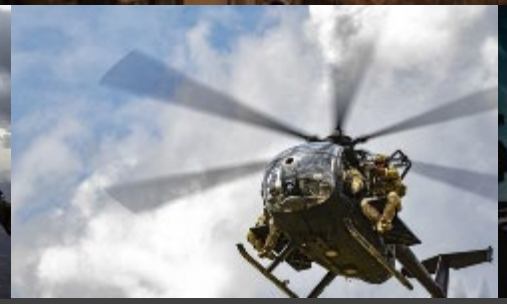

# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

## Back-ups

SOF AT&L



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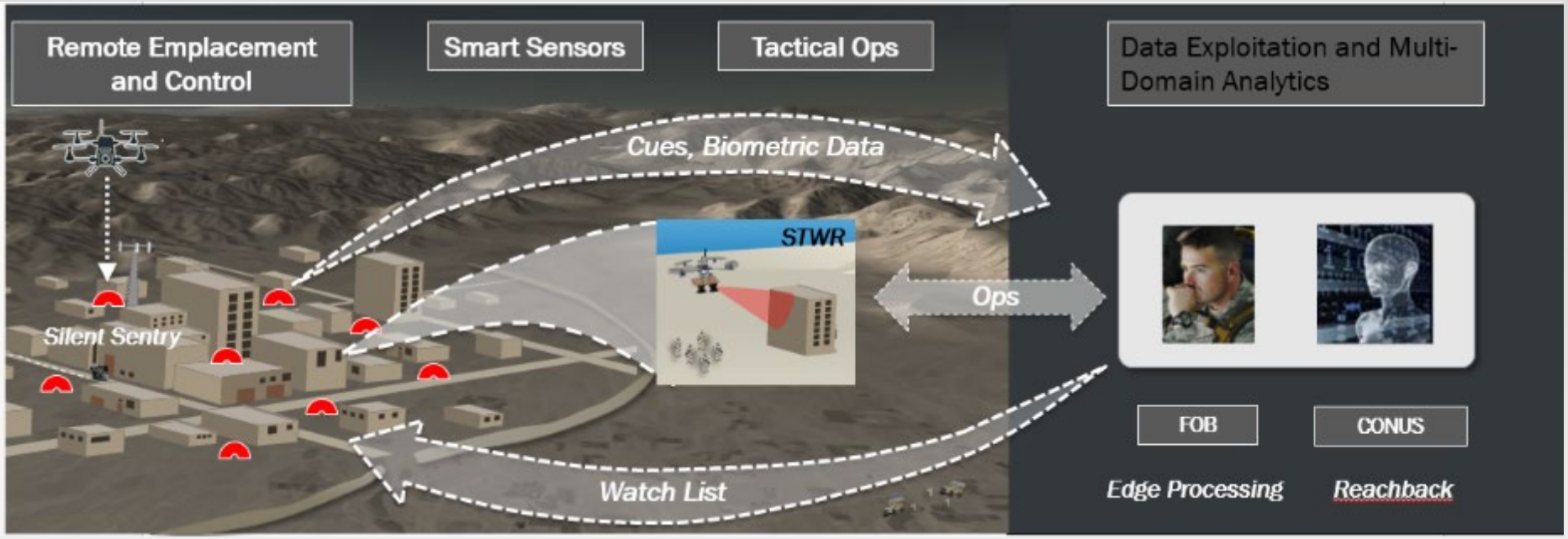
# Next Generation Identification Awareness (NGIA) "Technology Interoperability" (PM SP)

CLASSIFIED — *Multi Domain Analytics Platform* — CLASSIFIED / UNCLASSIFIED




**Remote Emplacement**
- Sensor Delivery Unmanned
- Air Vehicle
- Ground Vehicle
- Air Drop
- Perch/Stare

**Smart Sensors**
- EO/EM Sensor
- Thru Wall Radar
- Edge Analytics
- Bio-Algorithms
- Exfil comms

**Tactical Ops**
- Smart Sensors
- Tactical UGV/UAS
- Tactical C3

**Automated Multi-Domain Analytics**
- Captured Enemy Material
- Data Fusion
- Scalable Computing
- Cross Domain Correlation
- Optical Character Recognition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# NGIA Collaborative Approach (PM SP)

**Acquisition Approach**

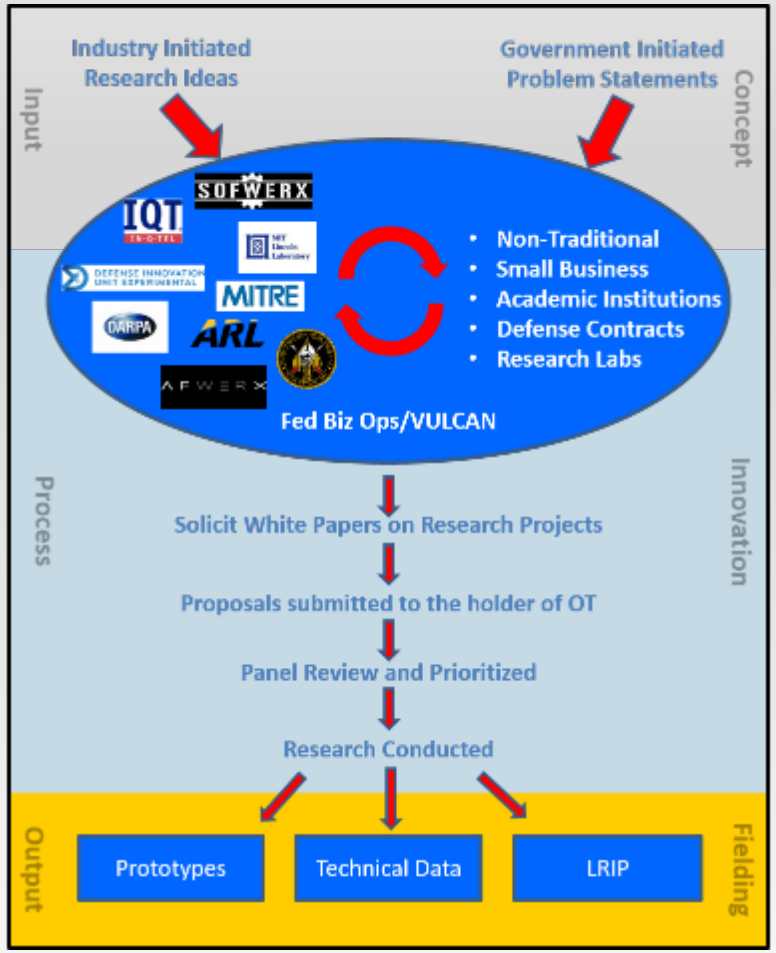
- NGIA using Other Transaction Authority forms a sphere of technology excellence to conduct rapid prototyping
- Full and open advertisement
- Agreements established under Participant Basic Agreement
- Participants are vetted based on:
  - Merit of technology
  - Operational relevance

**Technology Focus Areas:**

- Biometrics
- Direct Energy
- Sensor Employment
- Data Analytics/Fusion

**Objectives**

- Innovative solutions for rapid prototyping & initial fieldings
- Competitive yet flexible
- Leverage advanced commercial technologies
- Self-organize relationships to grow capabilities/innovation




**OTA structure must have the flexibility to expand Technology Focus Areas**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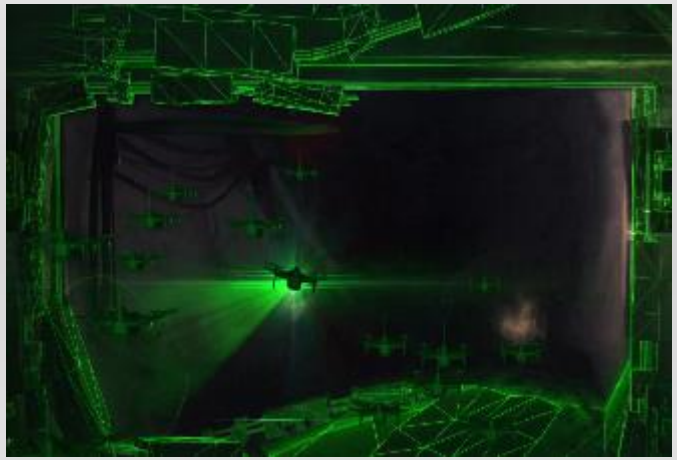
# Artificial Intelligence for Small Unit Maneuver (PM SP)



SOCOM desires to rapidly grow, invest, and expand AI-enabled unmanned platforms and the US Industrial base to support:

- Achieving ***tactical dominance*** – turn tactical standoffs into victories faster
- Enabling robotic systems to ***execute tactical tasks*** (isolate, reconnoiter, over watch, screen, call-out, breach, etc.)
- Enabling ***heightened tactical awareness*** through Human Machine Teaming - control of multiple heterogeneous robots
- Achieving ***tactical cognitive dominance*** through faster decision making at the tactical edge of the battlefield
- ***Operating in tactical contested areas*** (A2AD) – where enemy electronic warfare hinders tactical operations
- Seamless ***integration with tactical organic weapons*** at the small unit level of individuals/teams (CROWS turret, Javelin)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# Environmental Protection (PM SSES)

- An multi-layer clothing system designed to protect the operator from -50°F to temperate weather environments

## ACQUISITION STRATEGY

- Addition to Existing IDIQ
- Federal Procurement List

## PERIOD OF PERFORMANCE

- FY2000 - TBD

## MILESTONES

- FY19/20 Temperate Uniform
- FY20 Artic Evaluations
- FY21 RDTE Overwhites
- FY22 Arctic Evaluation

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

- FY21 - $3.020M O&M

## CURRENT CONTRACT/OEM

- Source America
- Lost Arrow



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# Modular Glove Suite (PM SSES)

- Multi layer glove system to allow operators to work in environments from -50F to temperate weather environments

## ACQUISITION STRATEGY

- Addition to Existing IDIQ

## PERIOD OF PERFORMANCE

- FY 19-FY24

## MILESTONES

- FY19 Evals
- FY20 Arctic Evals
- FY22 Arctic Evals

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

- FY21 - $2.052M O&M

## CURRENT CONTRACT/OEM

- Outdoor Research
- Dryfire
- Line of Fire
- First Spear



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# Backpacks (PM SSES)

- **Suite of backpacks to support USSOCOM Operator in all operational environments**
  - **Recce**
    - **Mountain Recce**
  - **Patrol**
    - **Jungle Patrol**
  - **Assault**

| ACQUISITION STRATEGY | PERIOD OF PERFORMANCE | MILESTONES |
|---|---|---|
| • Addition to Existing IDIQ | • FY17-22 | • FY18 Addition of improved Airops Harness |

| POINT OF CONTACT | FUNDING | CURRENT CONTRACT/OEM |
|---|---|---|
| • USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482 | • FY21 - $0.381M O&M | • Mystery Ranch<br>• Tyr Tactical<br>• Froma |



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# Ballistic Plates (PM SSES)

- Standalone hard plates that provide front and rear armor piercing rifle ballistic protection to the individual operator
- Modular Supplemental Armor Protection (MSAP) hard plates that provide additional armor piercing rifle protection to the outer shoulder areas, side oblique areas and the groin

## ACQUISITION STRATEGY

- 5 Year IDIQ (+2 Year Option)

## PERIOD OF PERFORMANCE

- FY20 - FY25/27

## MILESTONES

- Continuous Market Research
- FY24-25 Pre-Solicitation RDTE
- FY26: Solicitation

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

- FY21 - $5.088M O&M

## CURRENT CONTRACT/OEM

- Leading Technology Composites


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# Soft Armor Inserts (PM SSES)

- Soft Armor insert that provides front, rear, side oblique, and groin handgun and fragmentation protection to the individual operator
- Compatible with currently fielded body armor vest and load carriage systems

| ACQUISITION STRATEGY | PERIOD OF PERFORMANCE | MILESTONES |
|---|---|---|
| • 5 Year IDIQ (+2 Year Option) | • FY18-23 | • 3QFY22 Solicitation |

| POINT OF CONTACT | FUNDING | CURRENT CONTRACT/OEM |
|---|---|---|
| • USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482 | • FY21 - $5.088M O&M | • Hardwire, LLC |


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# Ballistic/Impact Helmets & Mounts (PM SSES)

## BALLISTIC / IMPACT HELMETS

- Provides the operator ballistic and bump (impact) protection
- Provides the ground operator a stable and comfortable platform that is compatible with night vision devices, communications, military freefall and CBRN equipment
- Maritime operations coxswain helmet to provide additional eye/mandible protection and provide a stable & comfortable platform to mount NVGs during normal sea-state and high-sea state and high speed maneuvering

### ACQUISITION STRATEGY

- 5 Year IDIQ (Ground)
- 5 Year IDIQ (+2 Yr Option) (Coxswain)

### PERIOD OF PERFORMANCE

- FY19-24 (Ground)
- FY19 – 24/26 (Coxswain)

### MILESTONES

- Continuous Market Research
- Ground Solicitation 1QFY23
- Coxswain Solicitation FY25

## VISUAL AUGMENTATION SYSTEM (VAS) MOUNTS

- Hardware that allows the operator to attach and secure night vision devices to a ballistic or non-ballistic helmet to effectively conduct low light maneuvers and operations

### ACQUISITION STRATEGY

- Part of Helmet Solicitation / Contract

### PERIOD OF PERFORMANCE

- Part of Helmet Contract / Solicitation

### MILESTONES

- Same as Ground and Coxswain helmet

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

### FUNDING

- FY21 - $1.281M O&M

### CURRENT CONTRACT/OEM

- Gentex (Ground & Coxswain Helmet)
- Wilcox (Mounts)



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# Comms Headsets/Hearing Protection (PM SSES)

## Suite of hearing protection and communications headsets

- Maritime
- Land
- Wireless

### ACQUISITION STRATEGY

- IDIQ Contracts

### PERIOD OF PERFORMANCE

- Maritime – FY17-22
- Land – FY19-24

### MILESTONES

- FY20-21 Wireless Evals

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

### FUNDING

- FY21 - $12.916M O&M

### CURRENT CONTRACT/OEM

- Invisio
- Peltor 3M
- Atlantic Signal
- Gentex



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# Special Operations Eye Protection (PM SSES)

- Spectacle and goggle kit that provides the operator ballistic, impact and laser protection and meets ANSI optics standards
- Can accommodate prescription lens inserts

## ACQUISITION STRATEGY

- Addition to existing IDIQ

## PERIOD OF PERFORMANCE

- FY21-27

## MILESTONES

- Continuous Market Research
- User evaluations as appropriate

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

- FY21 - $0.213M O&M

## CURRENT CONTRACT/OEM

- Oakley
- Smith Optics
- Revision



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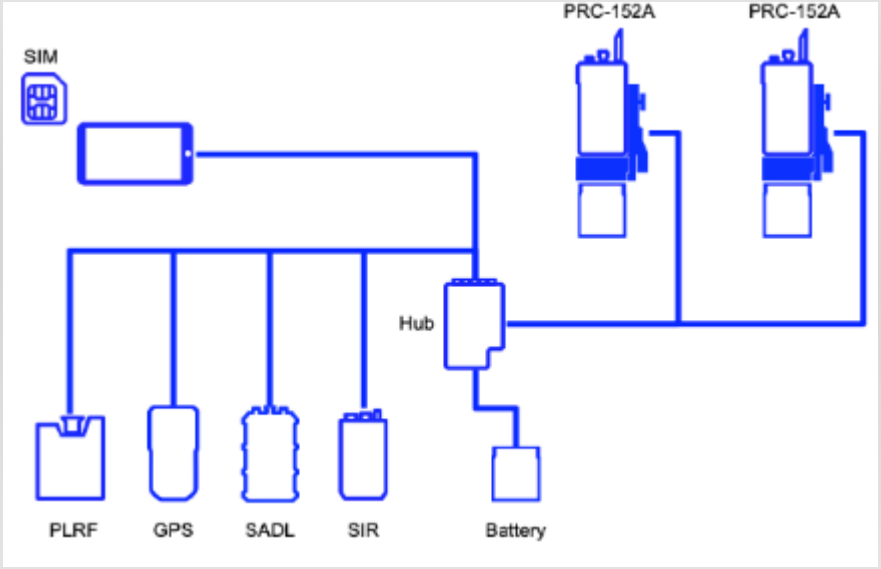
# Power for SOF Equipment (PM SSES)

- Suite of high energy dense power sources, integrated power and data management, and other power accessories
- Intent to meet the needs of Assaulters, JTACs, Recce, etc.
- Operationally relevant sizes and architectures
- Includes cables/cable management and non proprietary connectors




## ACQUISITION STRATEGY

- IDIQ Contracts

## PERIOD OF PERFORMANCE

- FY20-26

## MILESTONES

- FY20-21, Baseline power testing of Operator equipment
- FY 21 Battery and Wedge RFI
- FY21, Begin user evaluations

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

- FY21 - $1.944M RDT&E

## CURRENT CONTRACT/OEM

- None currently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# Tactical Casualty Combat Care (TCCC) Operator Kit

- Improved Self and Buddy Aid
- Life Threatening Hemorrhage Control
- Airway Management
- Pain Management / Infection Prevention
- Fluid Resuscitation
- Blast Exposure Monitoring System

Operator Kit Items

Operator Kit Pouch

## ACQUISITION STRATEGY

- Prime Vendor Contracts
- IDIQ or Other Transactional Agreement (Blast Exposure Monitoring System)

## PERIOD OF PERFORMANCE

- Sustainment through FY26
- BEMO Fielding FY22-26

## MILESTONES

- Milestone C – 25 Sept 07
- Configuration Updates as Required

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

- FY21 - $3.340M O&M

## CURRENT CONTRACT/OEM

- Cardinal Healthcare
- DMS Pharmaceuticals



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# Tactical Casualty Combat Care (TCCC) Medic Kit

- Advanced Airway Intervention
- Intravenous Medications
- Hypothermia Prevention
- Advanced Monitoring / Diagnostics
- Intraosseous Infusion

Medic Kit Bags

Medic Kit Items

## ACQUISITION STRATEGY

- Prime Vendor Contracts

## PERIOD OF PERFORMANCE

- Sustainment through FY26

## MILESTONES

- Milestone C – 25 Sept 07
- Configuration Updates as Required

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

- FY21 - $2.305M O&M

## CURRENT CONTRACT/OEM

- Cardinal Healthcare
- DMS Pharmaceuticals



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# Tactical Casualty Combat Care (TCCC) Casualty Evacuation Set CASEVAC (PM SSES)

- Extract
- Stabilize
- Treat
- Monitor
- Transport

## ACQUISITION STRATEGY

- Existing IDIQ Contract
- Re-compete *Award is pending through GSA

## PERIOD OF PERFORMANCE

- Contract award - FY21
- Follow-on award FY26 (FY28 w/ options)

## MILESTONES

- Milestone C – 7 Jul 2011
- Program Parameter Change – Sep 2017
- Configuration Updates as Required

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

- FY21 - $8.242M O&M

## CURRENT CONTRACT/OEM

- Tribalco, LLC.
- TBD


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# Lightweight Machine Gun - Medium (LMG-M)

## Lightweight Machine Gun - Medium

- Provide versatile capabilities to SOF Operators for a lighter & more lethal capability using the .338 linked ammunition
- 2018 National Defense Strategy acknowledged a Gap between US Forces and our adversaries relating to conventional and unconventional weapons
- Lightweight .338NM belt-fed medium machinegun
- System will include weapon, tripod, and fire control (separate program)
- Designed to engage both individual and material targets out to 2,500m
- Intent of program is to provide a system that is roughly the same size/weight of M240B and delivers 50Cal terminal effects

### ACQUISITION STRATEGY

- Middle Tier Acquisition

### PERIOD OF PERFORMANCE

- 5 Year IDIQ

### MILESTONES

- Request for Proposal: JUN 21
- Proposal assessment : NOV 21
- Military User Assessment: JUN 22
- Contract Award: 4Q FY22

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- DOTC OTA



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# Mid-Range Gas Gun –Sniper/ Assault (MRGG-S/A)

## Mid-Range Gas Gun – Sniper/Assault (NSW Specific)

- The MRGG Project will provide 6.5 Creedmoor caliber rifle that will decrease weight, increase range, and provide more accuracy over current rifle platforms
- 2018 National Defense Strategy acknowledged a Gap between US Forces and our adversaries relating to conventional and unconventional weapons

### ACQUISITION STRATEGY

- Middle Tier Acquisition

### PERIOD OF PERFORMANCE

- 5 Year IDIQ

### MILESTONES

- Request for Proposal: 4Q FY21 / 1Q FY22
- Proposal Assessment: 2QFY22
- Vendor Shoot & User Down Select: 3Q FY22
- Military User assessment / Combat Evaluation: 4Q FY22
- Contract Award: 1Q FY23

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

- FY 20 PROC - $2.5M
- FY 21 PROC - $2.5M

### CURRENT CONTRACT/OEM

- USSOCOM OTA



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# Ammo, Demo, Breaching: Small Caliber (PM SL)

## 6.5mm Creedmoor Ammunition

- 2018 National Defense Strategy acknowledged a Gap between US Forces and our adversaries relating to conventional and unconventional weapons
- Contract for procurement of Sniper Support ammunition
- Ammunition will be built to Government Specification
- 2 contracts
  - Small business set aside for qualification ammunition (400k rounds)
  - IDIQ for TMR

### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- Small bus set aside (400k rds) for MRGG development: 3rd QTR FY21
- IDIQ RFP Release: 4th QTR FY21
- Contract Award: 1st QTR FY22

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- N/A



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# Ammo, Demo, Breaching: Small Caliber (PM SL)

## 338 Norma Magnum Machine Gun Ammunition

- 2018 National Defense Strategy acknowledged a Gap between US Forces and our adversaries relating to conventional and unconventional weapons
- Supports Lightweight Machine Gun – Medium (LMG-M) Program
  - Procurement via OTA for initial production
- 2 contracts for procurement of linked ammunition
  - Small business set aside for 400k rounds used for LMG-M qualification
  - IDIQ for procurement of linked ammunition for TMR
- Ammunition will be built to Government Specification
  - Government Design on Projectile and Link

### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- OTA Award supporting LMG-M Program: 3rd QTR FY21
- IDIQ RFP Release: 4nd QTR FY22
- Contract Award: 4rd QTR FY21

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- N/A



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# Lightweight Ammunition (PM SL)

## 7.62mm Lightweight Cased Linked Ammunition

- 2018 National Defense Strategy acknowledged a Gap between US Forces and our adversaries relating to conventional and unconventional weapons
- Contract for procurement of lightweight ammunition for use in MK44 Mini-gun & MK48
- Should reduce overall cartridge weight by over 20-30% compared to existing brass cased rounds
- Samples from OTA did not perform well due to case integrity and pressure issues.
- IPT is re-assessing strategy in 3QFY21

| ACQUISITION STRATEGY | PERIOD OF PERFORMANCE | MILESTONES |
|---|---|---|
| • Full and Open Competition<br>• IDIQ Contract | • 5 Years | • OTA Multi-Award for Samples: 3rd QTR FY19<br>• RFP Release: TBD<br>• Contract Award: TBD |

| POINT OF CONTACT | FUNDING | CURRENT CONTRACT/OEM |
|---|---|---|
| • USSOCOM SOF AT&L, Engage SOF (eSOF)<br>(813) 826-9482 | | • N/A |



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# Systems Integration / Hyper Enabled Operator (PM SL)

## Systems Integration / Hyper Enabled Operator

- **Capabilities that are linked together as a synchronized system with advanced human-machine interface.**
  - **Ability to significantly increase the speed and effectiveness of our Soldiers through advanced sensors and sensor networks, linking the sensors to the shooter to provide more lethal and decisive effects**
  - **Making sense of data at "machine speed" adaptive automations to increase situational awareness**
  - **Capability to analyze, synthesize, and communicate**
  - **Sending, receiving, organizing, and processing data with the goal of presenting actionable intelligence**

| DEVELOPMENT STRATEGY | PERIOD OF PERFORMANCE | MILESTONES |
|---|---|---|
| • Other Transaction Authority (OTA)<br>• 2373<br>• FAR Based Contracts | • ~6 - 18 months | • First Release: Apr 21<br>• Receive Proposals: continuously call for White Papers<br>• Source Selection: TBD<br>• Contract Award: TBD |

| POINT OF CONTACT | FUNDING | CURRENT CONTRACT/OEM |
|---|---|---|
| • USSOCOM SOF AT&L, Engage SOF (eSOF)<br>(813) 826-9482 | | • N/A |


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# Ranging Aiming Laser (RAL) (PM SL)

## Miniature Aiming System – Lasers = (MAS-L)

- **Aiming, Illuminating Lasers and Laser Range Finder (LRF) for the Lightweight Machine Guns (MK46, MK48, M249, M240B), combat rifles (MK17, M4), and sniper support rifles (M110A1, MK20, MRGG-S)**

- Visible Pointer Laser
- NIR Pointer Laser
- NIR Illuminator
- (CLIN 1) Without a Laser Range Finder
- (CLIN 2) With a Laser Range Finder
- Visible Pointer laser shall be visible greater than or equal to 25m
- NIR Pointer laser shall be sufficient for the operator to view greater than or equal to 900m through PVS-31 and PVS-31A
- NIR Illuminator shall be sufficient for the operator to view greater than or equal to 900m through PVS-31 and PVS-31A
- Laser Range Finder shall have a wavelength between 1400nm and 1700nm
- RAL assembly with battery shall weigh 15 oz or less.
- Pointers shall provide less than or equal to 0.8 mrad of divergence (1/e)
- RAL device shall use a CR123 and/or Lithium AA.
- Bluetooth capability to send ranging data to a hand held anemometer with ballistic processor, e.g. a Kestrel meter with LiNK

### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years + 5 option years

### MILESTONES

- RFP Release: 1st QTR FY22
- Receive Proposals: 2nd QTR FY22
- Source Selection: 1st QTR FY23
- Contract Award: 3rd QTR FY23

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- N00164-20-R-JQ74


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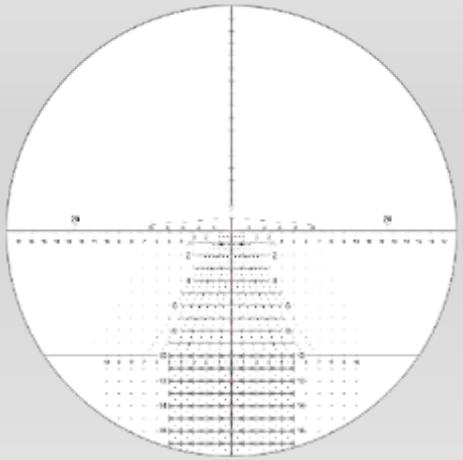
# Ranging Variable Powered Scope (R-VPS) (PM SL)

## Miniature Aiming System - Day Optic = (MAS-D)

- Upgrade to Enhanced Combat Optical Sight – Optimized (ECOS-O) previously fielded as part of the VASWA program.
- For combat and sniper support rifles including the MK17, MK20, M110A1.
- A magnified optic to improve target acquisition and P (h) between 50-900m.
- T3 reticle
- Variable power, 1-7x ≥ 18x
- Includes LRF Mount



### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years + 5 option years

### MILESTONES

- RFP Release: 1st QTR FY20
- Receive Proposals: 2nd QTR FY20
- Source Selection: 1st QTR FY21
- Contract Award: 3rd QTR FY21

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- N00164-20-R-JQ74



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# Miniature Aiming Sys – Night (MAS-N Squad) (PM SL)

## Miniature Aiming Systems – Night Sights (MAS-N)

- MAS-N Squad
  - Weapon platforms: SOF assault rifles, designated marksman rifles and sniper support rifles
  - Interoperate with MAS-D: Squad Variable Power Scope (S-VPS), Ranging Variable Power Scope (R-VPS), and MAS-L: Squad Aiming Laser (SAL)
  - The squad sight target detection range shall be 0-900m.

### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years + 5 option years

### MILESTONES

- RFP Release: 2nd QTR FY22
- Receive Proposals: 3rd QTR FY22
- Source Selection: 1st QTR FY23
- Contract Award: 2nd QTR FY23

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- TBD


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# Miniature Aiming Sys – Night (MAS-N Prec) (PM SL)

## Miniature Aiming Systems – Night Sights (MAS-N)

- MAS-N Precision
  - Weapon platforms: SOF precision and anti-material sniper rifles, and advanced sniper rifles
  - Interoperate with MAS-L: Precision Aiming Laser (PAL); and with MAS-D: Precision Variable Power Scope (P-VPS)
  - Target Engagement: 50- 2,000m

### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years + 5 option years

### MILESTONES

- RFP Release: 2nd QTR FY22
- Receive Proposals: 3rd QTR FY22
- Source Selection: 4th QTR FY22
- Contract Award: 2nd QTR FY23

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- TBD


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# Miniature Aiming Sys – Night (MAS-N CS) (PM SL)

## Miniature Aiming Systems – Night Sights (MAS-N)

- MAS-N Crew Served (CS)
  - Weapon platforms: SOF lightweight medium and heavy machine guns, and grenade machine guns
  - Interoperate with MAS-F: high-power day cameras; MAS-L: non-visible pointer and illuminator spectrums; and with MAS-D: Machine Gun Optic (MGO) if dismounted interoperability is required.
  - Target Engagement: 0- 2,000+m
  - Wide Field of View

### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract
- Procurement, Maintenance, and Sustainment

### PERIOD OF PERFORMANCE

- 5 Years + 5 option years

### MILESTONES

- RFP Release: 2nd QTR FY23
- Receive Proposals: 3rd QTR FY23
- Source Selection: 2nd QTR FY24
- Contract Award: 4th QTR FY24

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- New Capability


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# GOPSS Echelon 0 (PM SL)

- **Comprised of man-portable Vertical Take Off and Landing (VTOL) Aerial Loitering Munition (ALM) systems.**
  - **Provide organic capability at the unit level to strike static and mobile targets in near-to-far range spectrum in a ground domain while minimizing collateral damage.**
  - **System must be day and night capable in nearly all-weather conditions.**
  - **There are *three* VTOL ALM configurations intended to be carried and operated by SOF within close combat ranges to a Beyond Line-of-Sight range.**

| Echelon | Mobility/Weight | Type |
|---|---|---|
| 0 | Nano <5lbs | VTOL & ALM |
| | Micro 5-10lbs | |
| | Mega 11-55lbs | |

## ACQUISITION STRATEGY

- Middle Tier Acquisition (MTA) Rapid Prototyping
- Other Transaction Authority (OTA) via Department Of Defense Ordnance Technology Consortium DOTC or Aviation & Missile Technology Consortium

## PERIOD OF PERFORMANCE

- 5 Years

## MILESTONES

- Precision Strike AMTC Topic Announcements: 1st QTR FY22

## POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING

## CURRENT CONTRACT/OEM

- Pending AMTC Topic Announcement


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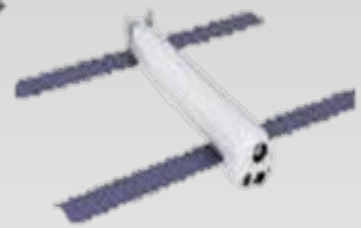
# GOPSS Echelon I (PM SL)

## Hero-30SFR (GOPSS Echelon I)

- Provide versatile capabilities to SOF Operators for a lighter & lethal loitering munition precision strike system.
- The HERO-30SFR has been evaluated as a lethal loitering munition in support of elements of United States Special Operations Command (USSOCOM).
- System provides a unique loitering munition with quick deployment capabilities.
- Man portable, ground launched system designed for detection, identification and elimination of enemy personnel and light armored vehicles.
- System will include data terminal, canister, and fire control unit.

Hero-30SFR



SB300

### ACQUISITION STRATEGY

- Middle Tier Acquisition

### PERIOD OF PERFORMANCE

- 5 Year OTA

### MILESTONES

- Design Verification: APR 21
- Environmental Testing: MAY – AUG 21
- User Operational Assessment: OCT 21
- Combat Evaluation: FY22

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- AMTC OTA



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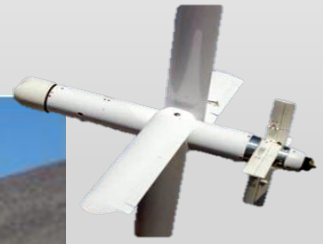
# GOPSS Echelon II (PM SL)

## Spike NLOS

- Provides a multi-purpose precision strike missile capable of engaging high value, stationary or moving targets.
- Capable of engaging targets during day or night operations in adverse weather conditions at ranges up to 30Km.
- Launcher can be mounted on a variety of wheeled and aviation platforms.
- Vehicle system that provides an organic capability at the small tactical unit level in contested and multi-domain environment where close-air support may not be available.



Hero-120SF

SB600

### ACQUISITION STRATEGY

- Middle Tier Acquisition

### PERIOD OF PERFORMANCE

- 5 Year OTA

### MILESTONES

- User Operational Assessment: DEC 20
- Combat Evaluation: FY21
- JLTV Integration: FY21
- Conditional F&DR: FY22

### POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING

### CURRENT CONTRACT/OEM

- DOTC OTA



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# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

# EXPANDING THE COMPETITIVE SPACE

**Mr. Theodore Koufas,** Senior Services Manager

**PROGRAM EXECUTIVE OFFICE— SERVICES**

SOF AT&L



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# Program Executive Officer - Services

## PEO SERVICES

### Knowledge Based Services Operating Environment

**Taxonomies**
- Knowledge Based Services
- Research and Development
- Medical
- Facility Related

- Legacy SWMS A and B TOs
- SOF CORE
- SWMS-C

**GSA**
- OASIS
- FEDSIM
- PSS

**Stand-Alone Contracts**
- POTFF II
- UEWTEP II
- Warrior Care
- EKM
- SOF AT&L
- META

## USSOCOM ENTERPRISE

Coordinate
Collaborate
Synergize

## Components & TSOCS

### Services Provided Enablers

- Strategic sourcing
- Acquisition Strategy Development
- Leverage HQs Contracting Framework
- Work With Requiring Activities To Reduce Gaps and Delays
- Procurement / Requirements Package
- Requirements Refinement
- Independent Government Cost Estimate (IGCE)
- Facilitate the Technical Evaluation Process
- Serve as the MDA / SSA for selected requirements
- Program Oversight for Cost / Schedule / Performance of Contract / Execution

## Mission:

Utilize Innovative and Strategic Processes to Ensure Rapid, Focused, and Cost-Effective Execution of Services Acquisition to Support Special Operations Forces.

## Vision:

Administer and Report the World-Wide Acquisition and Delivery of ALL Mission Support Services for Special Operations Forces



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# PEO Services

**PEO Services**
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**Program Specialist/ Executive Assistant**
**TASM**
**Ms. Brittany Symonds**
**813-826-2264**

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SOF AT&L
MITRE
WCP

**Tony Joyce**
J4
J5
J10
SOFM
TSOCs
JHU

**Amy Medlin**
Total CTR Manning
SRRB
EKM
J6
J8
Components

**Seanna Riley**
SCS PCOR
SOCS
J1
JSOU
UEWTEP

**Robert McClintock**
J2
J3X
CDO

**David Vachon**
J3


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# COVID-19 Response HQs Service Contract Update

- J-code Directors, Special Staff, and leaders are no longer required to limit the number of individuals conducting in-person work from HQ USSOCOM facilities.
- Indoor in-person meetings in HQ USSOCOM facilities are limited to no more than 25 personnel who must maintain six foot physical distancing while wearing an appropriate mask.
- In order to mitigate risk of disease spread, USSOCOM will use electronic communication platforms as the primary meeting format, in lieu of in-person meetings.
- Outdoor gatherings to conduct USSOCOM business are limited to 50 personnel or fewer who must abide by six foot physical distancing and mask wear.

# Latest on USSOCOM Category Management

- To Date, USSOCOM's Category Management activities have been largely implemented through individual acquisition strategy approvals, and the Services Requirements Review Board Process. Enablers include:
  - Collaboration
  - Performance Management
  - Capability Building
- Best SOCOM Examples of Spend Under Management/SOF Best in Class contracts include SOFSA, POTFF and SITEC
  - Recent examples using BICs include SOF AT&L Support Services, META, and EKM


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# Services Acquisition Items of Interest

- SOF CORE Support (SCS) Services Awarded
  - 10 year, $950M ceiling SOF Core Support (SCS) multiple award Indefinite Delivery/Indefinite Quantity (ID/IQ) Service Contract Vehicle.
  - 46 Prime contractors
  - The requirements in the IDIQ level Statement of Work support the government in the following areas:
    - Education and Training Services,
    - Management Support Services,
    - Program Management,
    - Engineering,
    - Technical and Professional Services, and
    - Administrative & Other Services.
  - Delegated Ordering Authority to Component and TSOC Contracting Offices


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# Services Acquisition Items of Interest

- **SOF Wide Mission Support (SWMS) Vehicles**
  - SWMS-A Ordering Period has Ended
  - SWMS-B Ordering Period has Ended
  - SWMS-C Ordering Period being extended from January to July 2022
- **$23.5M acquisition completed by GSA for MISO Evaluation and Transregional Analysis (META) effort.**
  - The META contract supports survey development and the collection, formatting, analyzing, storage, and presentation of data to support USSOCOM META mission requirements.
- **Enterprise Knowledge Management (EKM)**
  - SOF EKM operations are defined as the integration of people, processes, and technology, to facilitate the exchange of operationally relevant information and expertise to increase organizational performance. This involves creating, organizing, applying, and transferring knowledge to facilitate situational understanding and decision-making, which enables decision superiority.
    - Current Status


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# Services Acquisition Items of Interest

- **Material Management Defense Property Accountability System (DPAS) Support Services**
  - The purpose of this contract is to provide contractor support personnel to assist in implementing and systematically maintaining the Defense Property Accountability System (DPAS) Warehouse, Maintenance & Utilization (M&U), Registry, Property Accountability, Force Management, and Materiel Management modules across all Special Operation Forces' supply support activities. DPAS is the only authorized Accountable Property System of Record (APSR) approved by the DOD.
    - Current Status
- **SOFM FIAR Support**
  - The purpose of this task order is to provide contractor support to assist USSOCOM with achieving and maintaining auditable financial statements. The contractor shall rapidly and efficiently conduct activities necessary to identify and improve financial reporting deficiencies in accordance with accelerated Office of Under Secretary of Defense (Comptroller) (OUSD(C)) Financial Improvement and Audit Remediation (FIAR) guidance.
    - Current Status


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# Services Acquisition Forecast

- Hostile Forces - Tagging, Tracking, and Locating (HF-TTL) Follow-on
- SWMS-C Follow-on (SEPS)
- UEWTEP III


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# HF-TTL Follow-on

## Hostile Forces - Tagging, Tracking, and Locating (HF-TTL)

**Requirement:**

- Field Service Representatives (FSRs) for:
  - HF-TTL
  - TVS/RSTA (Tactical Video System/Remote Surveillance Target Acquisition)
- New Equipment Training (NET)

**Supported Organizations:**

- Special Operations Forces (SOF) military units
  - CONUS-based Operators
  - Deployed Units (for duration of rotations)
- SOF Component Headquarters
- Theater Special Operations Commands (TSOC)

**Includes:**

- Advising and training on the employment of specialized tactical surveillance
- Providing direct lessons-learned, operational training and technical support personnel
- Quick-reaction support
- General technical support to the USSOCOM Program Office
- Management of a large, geographically dispersed work force

**Current Status: Sources Sought document published on on beta.SAM/reviewing responses to inform Acquisition Strategy.**


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# HF-TTL Follow-on Schedule

## Changes Contemplated from previous contract:

- **Significant Changes:** Added FSR requirements (14 additional FTE) for the TVS/RSTA portfolio which is comprised of SOF-P technical collection capabilities for tactical, attended, semi-attended, unattended, and remote SR operations.
- **Deliverables:** Requirement of financial and technical monthly reports.
- **Implementation of Three Service Imperatives**

# HF-TTL Follow-on Schedule

**Requirements Definition/Market Research/Acq Strategy Development: In progress**

**Draft RFP Issuance: 4th Qtr FY21**

**Industry Day: 4th Qtr FY21**

**Final RFP Issuance: 4th Qtr FY21 / 1st Qtr FY22**

**Anticipated Award Date: 2nd Qtr FY22**


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# SOF Enterprise Professional Services (SEPS)

**Requirement: Provide FTE support to the Government across various task orders) in the following areas:**

- **Engineering and Technical Services;**
- **Management Support Services;**
- **Administrative and Other Services;**
- **Program Management; and**
- **Professional Services**

**Organizational Conflict of Interest (OCI) mitigation contractually enforced: The Prime contractor and sub-contractors for this contract will have daily access to requirements, resourcing and acquisition information that if used, would result in an unfair competitive advantage in competition for other SOF contracts.**

**Current Status: Pre-award / Market Research. RFI posted awaiting responses**

# SEPS

## Changes Contemplated from previous contract:

- **Implementation of Three Service Imperatives (Stability, Agility, Reach)**

- **Contract scope added in support of:**
  - Data Science
  - Artificial Intelligence (AI)
  - Autonomous Vehicles
  - Augmented-Virtual Reality (VR)
  - Robotics
  - Blockchain technology


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# SEPS Schedule

**Requirements Definition/Market Research/Acq Strategy Development: - In Progress**

**Draft RFP Issuance: July 2021 (Earlier)**

**Industry Day: July 2021 (Later)**

**Final RFP Issuance: August 2021 (Responses Mid October)**

**Anticipated Award Date: April 2022**


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# UEWTEP II Follow-on

**Requirement: To provide HQ USSOCOM with SMEs and services in support of the USSOCOM UEWTEP. The UEWTEP Execution Plan outlines SOF related training, synergy, provides for prioritized requirements, training efficiencies, and support's fiduciary responsibilities by planning and executing a holistic approach across the enterprise-wide construct. Provide SOF exercise and collective training SMEs.**
**(Currently ~182 FTEs)**

**Current Status: Requiring activity reviewing current requirements and assessing resourcing availability to update and draft UEWTEP III Statement of Work (SOW).**


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# UEWTEP II Follow-on Schedule

## Changes Contemplated from previous contract:

- Evaluating the needed support for the follow-on contract vehicle
- Assessing available resourcing
- Reevaluating what the services imperatives mean to the requirement (Stability, Agility, and Reach)


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# UEWTEP II Follow-on Schedule

**Requirements Definition/Market Research/Acq Strategy Development: January 2022**

**Industry Day: February 2022**

**Draft RFP Issuance: March 2022**

**Final RFP Issuance: 25 April 2022**

**Anticipated Award Date: 12 December 2022**


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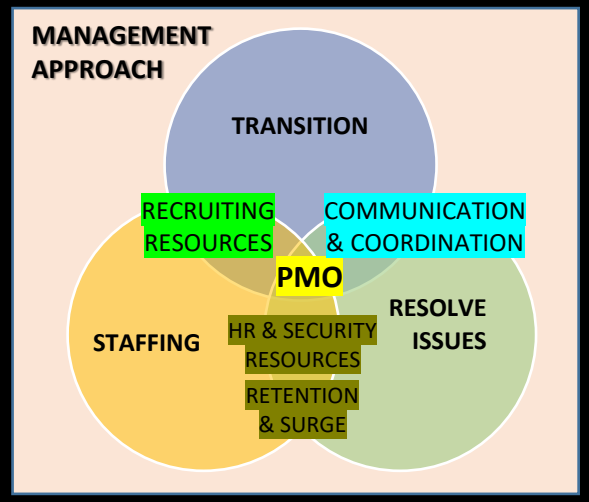
# What is *VALUABLE* in Services Delivery ?




**FUNCTIONS AND PROCESSES**

| TRANSITION | STAFFING | ISSUE RESOLUTION |
|---|---|---|
| • Schedule<br>• Phase-In<br>• Phase Out<br>• Resources | • Recruit<br>• Retain<br>• Absences & Vacancies<br>• Surge | • Communication & Coordination<br>• Task Lead Authorities<br>• Quality Control<br>• Corporate Support |

**A good Task Order Management Proposal (TOMP) will:**

1. Describe methods by which functions and processes are accomplished
2. Identify resources applied to enable these described methods
3. Explain decision-making authorities for efficient and effective results
4. Ensure comprehensive capabilities across the entire Period of Performance

**STABILITY** | **AGILITY** | **REACH**

*… management processes, enabled by corporate resources, will generate "imperatives"…*



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# Elements of Essential Processes…

## TRANSITION

- **Schedule**
  - Stipulated Milestones
  - Reviews – Info Sharing with Stakeholders
- **Phase-In**
  - Contact Plan(s)
  - Confirm “SUSTAINS” and “IMPROVES”
  - Re-Badging / Onboarding
  - Mission Continuity
- **Phase-Out**
  - Plan to Support
- **Resources**
  - What is different from resourcing during the REST of the PoP…

## STAFFING

- **Recruit**
  - Network into Pools of Expertise
  - Use of the Info-Sphere
- **Retain**
  - Compensation & Benefits
  - Professional Education/Development
  - Growth Opportunities
- **Absences & Vacancies**
  - Policies and Options
  - Resources to Support SDS Requirements
- **Surge**
  - Understand the requirement and related authorities
  - Ensure Level-of-Effort within contractual stipulations


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# PEO Services Future Considerations

- **Considerations for Future PEO Services Acquisitions**
  - What service support vehicles does the Command need going forward?

- **Factors Impacting Potential Course of Action for Enterprise Solutions:**
  - Command Service Requirements aligned to NDS and Commander Priorities
  - POM outlook
  - Desire/Appetite for Consolidation of various training pipeline efforts across the Enterprise
    - Much of this training would be within scope of SOF Core Support

- **Potential COAs:**
  - Continued Execution at Unit/Component Level
  - Utilization of existing Government Wide Agency Contracts (GWACs)
  - Enterprise Solutions tailored by Component/J-Code/Directorate


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# QUESTIONS AND COMMENTS

Engage SOF| eSOF@SOCOM.MIL

**813.826.9482**



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UNITED STATES SPECIAL OPERATIONS COMMAND

# EXPANDING THE COMPETITIVE SPACE

**Mr. Thomas Kenney, SES** Chief Data Officer/Director of SOF Artificial Intelligence

## SOCOM AI: BREAKING PARADIGMS

SOF AT&L

# U.S. Special Operations Command
# Command Data Office

# The Path to Innovation with Data and Artificial Intelligence on a Global Scale

Thom Kenney
Chief Data Officer

"We believe this is a national emergency and a threat to our nation unless we get our act together with respect to focusing on AI in the federal government and international security."

*Eric Schmidt*

# The data, AI and SOCOM relationship

Warfighter focus

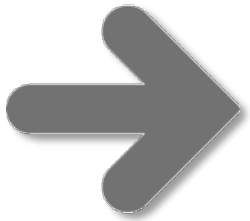
Information comes from data

Interoperability is essential

Multi-domain is really omni-domain

AI strategy builds on a data strategy

# A fundamental SOCOM challenge



Deliver data and AI-enabled capabilities to teams at the tactical edge

# Our approach to the challenge

## Education

Develop digital fluency on data and AI at all echelons to identify and enable AI

## Outreach

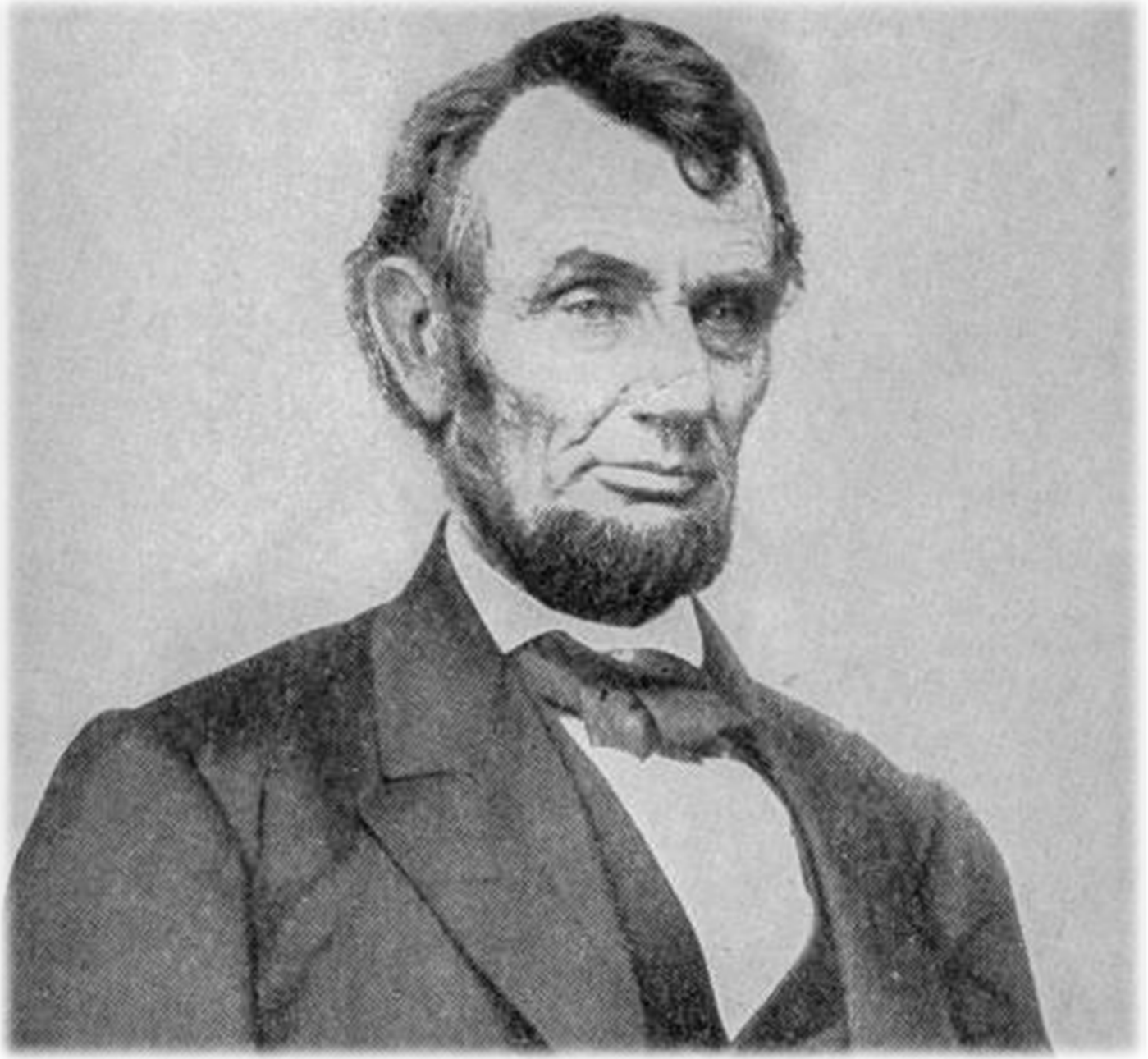
Leverage partnerships within industry, academia, and across the government

## Application

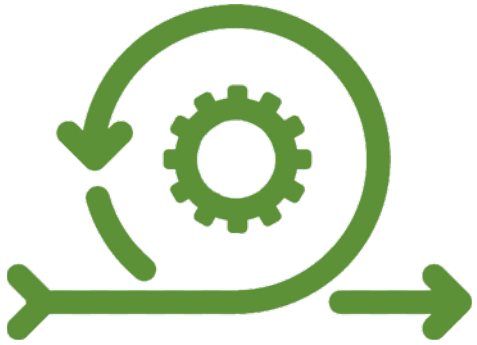
Support rapid iteration and deployment of AI-enabled capabilities

The best way to predict your future is to create it.

Abraham Lincoln

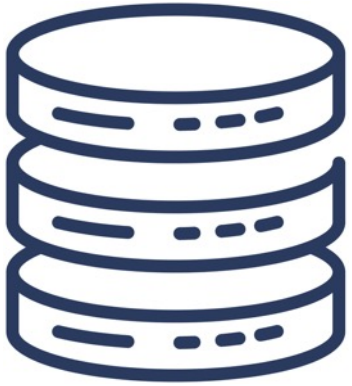


# Innovating for future threats & opportunities



**Software development is no longer linear**

Rapidly ideate, develop, test, and deploy



**Data interoperability as an imperative**

Data must be accessible and understandable across the enterprise

**Break down barriers to acquisition**

Quickly adopt new capabilities as they become available

**Human machine teaming is essential**

Develop capabilities that augment data driven decision making

# Connecting Industry and Military

Smart tech without smart data will not move us forward

Cooperative development of advanced technologies

# U.S. Special Operations Command
# Command Data Office

# Thank you