EXPANDING THE COMPETITIVE SPACE
SPECIAL OPERATIONS FORCES VIRTUAL INDUSTRY CONFERENCE

COL Joel Babbitt, Program Executive Office

SOF WARRIOR OVERVIEW
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
- Ground Mobility Vehicle (Medium)
- MRAP-ATV (Heavy)

**SURVIVAL**
“Protection, Load Carriage & Medical”
- Combat Uniform & Helmets
- Body Armor / Load Carriage System
- Casualty Evacuations

**LETHALITY**
“ Munitions, Visual Augmentation, Lasers & Weapons”
- Night Vision Goggles
- Combat Assault Rifles
- Aviation Ammo
- M72 LAW Light Assault Weapon
- Non-Standard Arms
- Laser Acquisition Markers
- Advanced Sniper Weapon & Ammo

PEO Oversight & Support for JSOC

Find
- Electronic Warfare (EW)
- Signals Intelligence (SI)
- Computer Network Operations (CNO)
- Intelligence, Surveillance, Reconnaissance (ISR)
- C4 / CP / CS / Intel
- Weapons/Ammo
- Soldier Survival Support
- Special Purpose Munitions & Explosives (SPME)
- Visual Augmentation Systems (VAS)
- Fire Support/Non-Lethal
  - SOF Enablers
  - Mobility
  - Tactical Comms
  - Tgt Engagement
  - Medical Ops

Analyze

Fix

Exploit

Finish
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
Provide rapid and focused acquisition at “The Speed of War” to USSOCOM operators conducting decisive SOF activities and global operations against terrorist networks.
PM-CISS Technology Interest Item

5G Cellular Technologies

Keeping pace with Commercial Technology Trends

**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

*photo credit:* Ivan Radic <a href="http://www.flickr.com/photos/26344495@N05/49713123696">Cell tower and transparent 5G text</a> via <a href="http://photopin.com">photopin</a> <a href="https://creativecommons.org/licenses/by/2.0/">(license)</a>
Data is only as Good as your Ability to Analyze and Produce Intelligence

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

**Needs:**
- Cross domain solutions that feed Data lake repositories
- Analysis of Structured and unstructured intelligence data sets

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**Photo credit:** Janet McKnight https://flickr.com/photos/janetmck/15422638442/in/photolist-puR46m-71REW8-6LgNcR-aMbw5H-6Xq9FM-6Xu9T9-2Yxv9A-dvdWi-25htBcK-dQEPCC-8G68VZ-8G68JX-8G68F2-8G68jZ-9xaVP2-8G68zt-8G9IDJ-7uXPBA-8G9I9q-3A1j1z-5c5WBr-3A1nek-rEAH-7fLzfq-8CpFau-Wu3cv3-6cyWB-nmZnrf-9bWVHV-9wJLwq-T5MifH-6jQj7m-uq4zV-6rf4Xg-5eVeXR-2b5yP9-9uQG7p-6J7rBA-8G9I9L3-4mAf5Q-2b61H9-HGwVJh-arF84-8G691g-4mAf35-cZUPK-ak7hXk-8UxCTj-6SCAnD/
Big Data leads to the need for more Efficient Methods to aid the User and Analysts

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

**Needs:**
- Tactical level systems
- Supplement users – tipping and queuing
- RF signal analysis
- Natural language processing at low SWaP
- Low use language data sets
- Aided recognition – image, audio, etc.

*Photo Credit:* Reports Monitor
https://www.flickr.com/photos/142918125@N02/43451135460/in/photolist-29cCqKW-24Sshoy-25V6hiE-2hA7YM8-2dy8tee-oAoj8u-29jds94-4rZi2H-2i54QbR-2gdqjZ5-2iaQGKu-2ho3NdX-2imw5QY-2iaQBAG-2ijpk2n-2d4ksBP-2gR9vHV-JmqrRip-2iGXWkj-2iHBJj-R93AQY-2hosxAf-ME7ywpp-8Gmym4-PjXmyo-9Gvy6d-MPkfEd-2hgjvTR-2hkyKSpC-weSxHb-vzsT7S-FQdzyG-XmVU61-wwu5k2-2aHYRoF-27pq9bw-WaQvDu-2jz4DA-7FPxr1-2iePP7m-L8qi3U-5zeCtV-5zeCVM-5zeCVb-bPUQWv-5zeEa5-5zeEa2-5zeEeH-5zeezz-5zeCvN
PMCISS Contact Information

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703.664.5000 x2266

APM Net Centric– MAJ Al LeCounte
703.664.5000 x3061

APM SIGINT – MAJ Eric Stangle
703.664.5000 x2145

Lead Systems Engineer – Mr. David Weisbecker
703.664.5000 x3782
Goals of NGIA

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

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.
NGIA Collaborative Approach

**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
- Communications
- 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
NGIA Other Transaction Authority
Contact Information

• 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
EXPANDING THE COMPETITIVE SPACE

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Mr. Adam Fields, Program Manager

SURVIVAL SUPPORT & EQUIPMENT SYSTEMS

SOF AT&L
SOF Personal Equipment Advanced Requirements (SPEAR) Portfolio Overview

- 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
- Protective Combat Uniforms
  - Levels 1-7
  - Level 9 / Lightweight Temperate Uniform
  - Modular Glove System
  - Signature Management
- Modular Integrated Communications Helmets
  - Hearing Protection
  - Communications Interface
  - Ballistic Helmets
  - VAS Mounts
Protective Combat Uniform

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

<table>
<thead>
<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
<th>POINT OF CONTACT</th>
<th>FUNDING</th>
<th>CURRENT CONTRACT/OEM</th>
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<tr>
<td>• Addition to Existing IDIQ</td>
<td>• FY2000 - TBD</td>
<td>• FY19/20 Temperate Uniform</td>
<td>• USSOCOM SOF AT&amp;L, Engage SOF (eSOF) (813) 826-9482</td>
<td>• FY20 - $6.131M O&amp;M</td>
<td>• Source America</td>
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<td>• FY20 Artic Evaluations</td>
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<td>• FY22 - $1.656 O&amp;M</td>
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DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
Modular Glove Suite

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

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<td>• FY19 Evals</td>
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<td>• FY20 Arctic Evals</td>
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<td>• USSOCOM SOF AT&amp;L, Engage SOF (eSOF) (813) 826-9482</td>
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<td>• FY22 - $.782M O&amp;M</td>
<td>• Line of Fire</td>
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<td>• First Spear</td>
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# Backpacks

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

## Acquisition Strategy

- Addition to Existing IDIQ

## Period of Performance

- FY17-22

## Milestones

- FY18 Addition of improved Airops Harness

## Point of Contact

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

## Funding

- FY19 - $2.473M O&M
- FY20 - $381M O&M

## Current Contract/OEM

- Mystery Ranch
- Tyr Tactical
- Froma
Ballistic Plates

- 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

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<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
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<tbody>
<tr>
<td>• 5 Year IDIQ (+2 Year Option)</td>
<td>• FY14-25</td>
<td>• FY16 – FY19 Market Research</td>
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<td>• 4th QFY19 Solicitation</td>
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<td>• USSOCOM SOF AT&amp;L, Engage SOF (eSOF) (813) 826-9482</td>
<td>• FY19 - $16.418M O&amp;M</td>
<td>• Leading Technology Composites</td>
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<td>• FY20 - $10.272M O&amp;M</td>
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<td>• FY21 - $5.075M O&amp;M</td>
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# Soft Armor Inserts

- 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

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<th>MILESTONES</th>
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<td>• 5 Year IDIQ</td>
<td>• FY18-23</td>
<td>• 3QFY22 Solicitation</td>
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</table>
| • USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482 | • FY19 - $16.418M O&M  
• FY20 - $10.272M O&M  
• FY21 - $5.075M O&M | • Hardwire, LLC |
Ballistic/Impact Helmets & Mounts

BALLISTIC / IMPACT HELMETS
- Provides the operator 9mm, fragmentation, 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

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

PERIOD OF PERFORMANCE
- FY19-24 (Ground)
- FY19-24 or 26 (Coxswain)
- FY19 Contract Awards
- Ground Helmet Solicitation FY23
- Coxswain Helmet Solicitation FY23 or 25

MILESTONES
- Part of Helmet Solicitation / Contract
- Same as Ground and Coxswain helmet

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

FUNDING
- FY19 - $2.089M O&M
- FY20 - $1.328M O&M
- FY21 - $1.394M O&M

CURRENT CONTRACT/OEM
- Gentex (Ground & Coxswain Helmet)
- Wilcox (Mounts)
## Communication Headsets/Hearing Protection

Suite of hearing protection and communications headsets
- Maritime
- Land
- Wireless

### ACQUISITION STRATEGY
- IDIQ Contracts

### PERIOD OF PERFORMANCE
- Maritime – FY17-22
- Land – FY19-24

### MILESTONES
- FY15-FY17 Maritime Recompete
- FY18-19 Land Re-compete

### POINT OF CONTACT
- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

### FUNDING
- FY19 - $6.669M O&M
- FY20 - $13.124M O&M
- FY21 - $12.9134M O&M

### CURRENT CONTRACT/OEM
- Invisio
- Peltor 3M
- Atlantic Signal
- Gentex
## Special Operations Eye Protection

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

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<th>ACQUISITION STRATEGY</th>
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<th>MILESTONES</th>
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</table>
| • Addition to existing IDIQ | • FY19-24 | • FY18-20 Arctic Goggle Market Research  
• User evaluations as appropriate |

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<tr>
<th>POINT OF CONTACT</th>
<th>FUNDING</th>
<th>CURRENT CONTRACT/OEM</th>
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| • USSOCOM SOF AT&L, Engage SOF (eSOF)  
(813) 826-9482 | • FY19 - $0.484M O&M  
• FY20 - $0.398M O&M  
• FY21 - $0.200M O&M | • Oakley  
• Smith Optics  
• Revision |
Capability Areas of Interest

• Lightweight wearable armor to defeat non-AP rifle rounds; protection of body regions such as arms, upper legs, lower back, lower abdomen, and groin

• Lightweight handheld ballistic shields to defeat non-AP rifle rounds; easily transportable during all SOF modes of infil/exfil and light enough to utilize on target

• Lightweight 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

• Militarized USB-C connectors
**SPEAR Recompete Roadmap**

<table>
<thead>
<tr>
<th>Component</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
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<tr>
<td>PCU</td>
<td>Artic Evaluations</td>
<td>Combat Uniforms</td>
<td>Sustainment</td>
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<tr>
<td>MGS</td>
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<td>Modular Glove System</td>
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<td>Backpacks</td>
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<td>Rucksack Suite</td>
<td>Presolicitation Testing/Market Research</td>
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<td>BAVs</td>
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<td>Body Armor Vests</td>
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<td>Hard Armor</td>
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<td>Ballistic Plates</td>
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- Sustainment
- Presolicitation
- Recompete
## SPEAR Recompete Roadmap

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<tr>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
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<td><strong>Soft Armor</strong></td>
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<td>Soft Armor Inserts</td>
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<td>Helmets &amp; VAS Mounts</td>
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<td>Ground Helmet Presolicitation Testing/Market Research</td>
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<td>Coxswain Helmet Presolicitation Testing/Market Research</td>
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- **Sustainment**
- **Presolicitation**
- **Recompete**
# Power for SOF Equipment

- 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

<table>
<thead>
<tr>
<th>ACQUISITION STRATEGY</th>
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<th>MILESTONES</th>
<th>POINT OF CONTACT</th>
<th>FUNDING</th>
<th>CURRENT CONTRACT/OEM</th>
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<td>• IDIQ Contracts</td>
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<td>• FY20-21, Baseline power testing of Operator equipment</td>
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<td>• FY21, Begin user evaluations</td>
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<td>• USSOCOM SOF AT&amp;L, Engage SOF (eSOF) (813) 826-9482</td>
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### Power Compete Roadmap

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<td>Compete</td>
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- **Sustainment**
- **Presolicitation**
- **Compete**
- **Recompete**
# 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

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

## Period of Performance
- Sustainment through FY25
- BEMO Fielding FY22-26

## Milestones
- Milestone C – 25 Sept 07
- Continuous Configuration Updates as Required

## Point of Contact
- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## Funding
- FY20 - $2.279M O&M
- FY21 - $3.340M O&M
- FY22 - $2.267M O&M

## Current Contract/OEM
- Cardinal Healthcare
- DMS Pharmaceuticals

![Operator Kit Items](image1)
![Operator Kit Pouch](image2)
Tactical Casualty Combat Care (TCCC) Medic Kit

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

## Acquisition Strategy
- Prime Vendor Contracts

## Period of Performance
- Sustainment through FY25

## Milestones
- Milestone C – 25 Sept 07
- Continuous Configuration Updates as Required

## Point of Contact
- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

## Funding
- FY20 - $1.567M O&M
- FY21 - $1.670M O&M
- FY22 - $1.606M O&M

## Current Contract/OEM
- Cardinal Healthcare
- DMS Pharmaceuticals
Tactical Casualty Combat Care (TCCC) Casualty Evacuation Set CASEVAC

- Extract
- Stabilize
- Treat
- Monitor
- Transport

### ACQUISITION STRATEGY

- Existing IDIQ Contract
- Recompete through GSA is ongoing

### PERIOD OF PERFORMANCE

- Contract through FY20
- Follow-on award TBD

### MILESTONES

- Milestone C – 7 Jul 2011

### POINT OF CONTACT

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

### FUNDING

- FY20 - $6.741M O&M
- FY21 - $8.242M O&M
- FY22 - $6.908M O&M

### CURRENT CONTRACT/OEM

- Tribalco, LLC.
Medical Portfolio Roadmap

<table>
<thead>
<tr>
<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
<th>FY25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainment</td>
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<tr>
<td>Blast Exposure Monitoring System - Fielding</td>
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<tr>
<td>Fielding to FOC</td>
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<tr>
<td>Sustainment</td>
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<tr>
<td>USSOCOM Biomedical Science &amp; Technology R&amp;D efforts</td>
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</tbody>
</table>

- **Sustainment**
- **Fielding**
- **Biomedical R&D Efforts**
EXPANDING THE COMPETITIVE SPACE
SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

LTC Marcos Cervantes, Program Manager SOF Lethality
DELIVERING DOMINANCE
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

**ACQUISITION STRATEGY**
- Full and Open Competition
- IDIQ Contract

**PERIOD OF PERFORMANCE**
- 5 Years

**MILESTONES**
- RFP Release: 4th QTR FY20
- Contract Award: 1st QTR FY21

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

**FUNDING**
- $20M

**CURRENT CONTRACT/OEM**
- N/A
# Ammo, Demolitions, Breaching: Small Caliber

## 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
- Contract for procurement of linked ammunition
- 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 FY20
- RFP Release: 2nd QTR FY21
- Contract Award: 4th QTR FY21

## POINT OF CONTACT
- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

## FUNDING
- $50M

## CURRENT CONTRACT/OEM
- N/A
Lightweight Ammunition

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
- Should reduce overall cartridge weight by over 20-30% compared to existing brass cased rounds
- Competitive RFP will follow assessment of samples procured via OTA to be conducted late FY19

ACQUISITION STRATEGY
- Full and Open Competition
- IDIQ Contract

PERIOD OF PERFORMANCE
- 5 Years

MILESTONES
- OTA Multi-Award for Samples: 3rd QTR FY19
- RFP Release: 4rd QTR FY20
- Contract Award: 21nd QTR FY21

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

FUNDING
- $25M

CURRENT CONTRACT/OEM
- N/A
Mid-Range Gas Gun – Assault (NSW Specific)

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

<table>
<thead>
<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Middle Tier Acquisition</td>
<td>• 5 Year IDIQ</td>
<td>• Request for Proposal: 4Q FY20</td>
</tr>
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<td></td>
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<td>• Collider: 4Q FY20</td>
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<td></td>
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<td>• Vendor Shoot &amp; User Down Select: 2Q FY21</td>
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<tr>
<td></td>
<td></td>
<td>• Combat Evaluation: 2Q FY21</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Contract Award: 4Q FY22</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POINT OF CONTACT</th>
<th>FUNDING</th>
<th>CURRENT CONTRACT/OEM</th>
</tr>
</thead>
</table>
| • USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482 | • $XXM Prototype  
   • $XXM Fielding | • USSOCOM OTA |
**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

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<table>
<thead>
<tr>
<th><strong>ACQUISITION STRATEGY</strong></th>
<th><strong>PERIOD OF PERFORMANCE</strong></th>
<th><strong>MILESTONES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Middle Tier Acquisition</td>
<td>• 5 Year IDIQ</td>
<td>• Combat Evaluation MAR 2020 – MAR 2021</td>
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</table>

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<th><strong>FUNDING</strong></th>
<th><strong>CURRENT CONTRACT/OEM</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• USSOCOM SOF AT&amp;L, Engage SOF (eSOF) (813) 826-9482</td>
<td>• $1.2M Prototype • $49M Fielding</td>
<td>• DOTC OTA</td>
</tr>
</tbody>
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(UCLASSIFIED)
## Lightweight Machine Gun - Assault (LMG-A)

**Lightweight Machine Gun - Assault**

- Provide versatile capabilities to SOF Operators for a lighter & more lethal capability using an intermediate caliber
- 2018 National Defense Strategy acknowledged a Gap between US Forces and our adversaries relating to conventional and unconventional weapons
- System will include weapon, tripod, and fire control (separate program)
- Designed to engage both individual and material targets out to 1500m
- Intent of program is to exceed the performance of current Lightweight Machine Guns.

### ACQUISITION STRATEGY

- Middle Tier Acquisition

### PERIOD OF PERFORMANCE

- 5 Year IDIQ

### MILESTONES

- RFP: 2QFY21
- Collider: 3QFY21
- Vendor Shoot & Safety: 4QFY21
- Combat Evaluation: 1QFY22
- Contract Award: 2Q FY23

### POINT OF CONTACT

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

### FUNDING

- $1.2M Prototype
- $49M Fielding

### CURRENT CONTRACT/OEM

- DOTC OTA
Advanced Precision Variable Powered Scope (P-VPS)

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

- Upgrade to Family of Sniper Scopes previously fielded as part of the sniper weapon system.
- For sniper weapons including the PSR, AMR and future ASR
- A magnified optic to improve target acquisition and P (h) between 50-1500m.
- Includes a non-caliber specific Milliradian grid reticle
- Variable power
- Illuminated aim-point
- Incorporates a micro data display to display range finding, ballistics offsets, and other engagement data within the optics field of view; objective of disturbed reticle

**ACQUISITION STRATEGY**
- Full and Open Competition
- IDIQ Contract

**PERIOD OF PERFORMANCE**
- 5 Years + 5 option years

**MILESTONES**
- RFP Release: TBD
- Receive Proposals: 2nd QTR FYXX
- Source Selection: 3rd QTR FYXX
- Contract Award: 4th QTR FYXX

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

**FUNDING**
- $49M

**CURRENT CONTRACT/OEM**
- N00164-18-R-JQ60
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 50-1000m.
- T3 reticle
- Variable power
- First Focal Plane

**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: 4th QTR FY20
- Contract Award: 2nd QTR FY22

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

**FUNDING**
- $45M

**CURRENT CONTRACT/OEM**
- N00164-20-R-JQ71
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: TBD
- Receive Proposals: 2nd QTR FYXX
- Source Selection: 3rd QTR FYXX
- Contract Award: 4th QTR FYXX

### POINT OF CONTACT
- USSOCOM SOF AT&L, Engage SOF (eSOF)
  (813) 826-9482

### FUNDING
- TBD

### CURRENT CONTRACT/OEM
- TBD
**Miniature Aiming Systems – Night (MAS-N Precision)**

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

<table>
<thead>
<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
</tr>
</thead>
</table>
| • Full and Open Competition  
• IDIQ Contract | • 5 Years + 5 option years | • RFP Release: TBD  
• Receive Proposals: 2nd QTR FYXX  
• Source Selection: 3rd QTR FYXX  
• Contract Award: 4th QTR FYXX |

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</thead>
</table>
| • USSOCOM SOF AT&L, Engage SOF (eSOF)  
(813) 826-9482 | • TBD | • TBD |
Miniature Aiming Systems – Night (MAS-N CS)

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

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<th>MILESTONES</th>
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</thead>
</table>
| • Full and Open Competition  
  • IDIQ Contract  | • 5 Years + 5 option years | • RFP Release: TBD  
• Receive Proposals: 2nd QTR FYXX  
• Source Selection: 3rd QTR FYXX  
• Contract Award: 4th QTR FYXX |

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<td>• USSOCOM SOF AT&amp;L, Engage SOF (eSOF) (813) 826-9482</td>
<td>• TBD</td>
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</table>
Ground Precision Strike Systems

- Ground based man packable or vehicle mounted Precision Guided Munition
  - 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.
  - Multiple Mode Seeking Capability enabling engagement of enemy in a diverse and fluid operational environment.

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<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Middle Tier Acquisition (MTA) Rapid Prototyping</td>
<td>• 3 Years</td>
<td>• Precision Strike AMTC Topic Announcements: 1st QTR FY21.</td>
</tr>
<tr>
<td>• Other Transaction Authority (OTA) via Defense Ordnance Technology Consortium DOTC or Aviation &amp; Missile Technology Consortium</td>
<td></td>
<td>• Dominant Lethality Capability Demo (DLCD): 3rd Qtr FY19, 3rd Qtr FY21, and 3rd Qtr FY23.</td>
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<tr>
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<th>FUNDING</th>
<th>CURRENT CONTRACT/OEM</th>
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<tbody>
<tr>
<td>• USSOCOM SOF AT&amp;L, Engage SOF (eSOF) (813) 826-9482</td>
<td>• ~$10M</td>
<td>• DOTC 19-01-INIT1020</td>
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<td></td>
<td>• AMTC-19-10-005</td>
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</table>
EXPANDING THE COMPETITIVE SPACE
SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

LtCol Ray Feltham, Program Manager
FAMILY SPECIAL OPERATIONS VEHICLES
Vehicle Lifecycle Overview

Vehicles in Concept
- Joint Light Tactical Vehicle (JLTV) SOF Mods
- Purpose Built Non-Standard Commercial Vehicle

Vehicles In Production
- Ground Mobility Vehicle 1.1 (GMV 1.1)
- Non-Standard Commercial Vehicle
- Light Tactical All Terrain Vehicle - Diesel

Vehicles in Sustainment
- GMV 1.0
- MRAP-ATV (M-ATV)
- MRAP - RG33 A1
- MRAP - RG33 AUV
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:**
- Hybrid/Electric
- Autonomous Capabilities
- Increased Payload
- Lifecycle Improvement
- Modular Kit Capabilities (weapons, tracks, etc.)

### Key Initiatives

<table>
<thead>
<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
<th>FUNDING</th>
<th>CURRENT CONTRACT/OEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Non Developmental Item (NDI)</td>
<td>• Sustainment ongoing</td>
<td>• Pure Fleet Diesel Variant: 4QFY18</td>
<td>• ~$6.5M/year</td>
<td>• Polaris Defense (Medina, MN)</td>
</tr>
</tbody>
</table>
**Non Standard Commercial Vehicle (NSCV)**

- 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
  - C4ISR Integration Cost Reductions
  - Suspension Technology
  - Lifecycle Improvement

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<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
</tr>
</thead>
<tbody>
<tr>
<td>• NSCV2: Full &amp; Open Competition</td>
<td>• Sustainment Ongoing</td>
<td>• NSCV1 Production End: July 18</td>
</tr>
<tr>
<td>• P-Built: Competitive OTA for Prototype (NAMC Consortium), w/ Follow-on Production</td>
<td>• Purpose Built NSCV: FY20 Prototype OTA Award</td>
<td>• NSCV2 IOT&amp;E: March 18</td>
</tr>
<tr>
<td>• Purpose Built NSCV: FY20 Prototype OTA Award</td>
<td>• NSCV2 PQT Completion: 1QFY20</td>
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<th>POINT OF CONTACT</th>
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<tbody>
<tr>
<td>• USSOCOM SOF AT&amp;L, Engage SOF (eSOF) (813) 826-9482</td>
<td>• ~$30M/year (average)</td>
<td>• Battelle Memorial Institute (Columbus, OH)</td>
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<td>• 7 Year IDIQ: July 2016 – July 2023</td>
</tr>
</tbody>
</table>
Ground Mobility Vehicle 1.1 (GMV 1.1)

- 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
- Terrain Specific Tire Alternatives
- C4ISR Integration Cost Reductions

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

**PERIOD OF PERFORMANCE**
- PoP: Aug 13 - Aug 20
- 5 Years Production

**MILESTONES**
- IOT&E: November 2015
- First Unit Equipped: April 2016
- Full Rate Production Decision: March 17
- Initial Operational Capability: September 2020

**CURRENT CONTRACT/OEM**
- General Dynamics Ordnance and Tactical Systems (St. Petersburg, FL)
- 7 Year IDIQ: August 2013 – August 2020

**FUNDING**
- FY20 is last year of investment funding
- $16M/yr sustainment funding through FYDP

**POINT OF CONTACT**
- USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482
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 RRAD

**MILESTONES**
- In Sustainment

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

**FUNDING**
- ~$88M/year

**CURRENT CONTRACT/OEM**
- No Active OEM Production Contracts
- FSR Support: Mantech / Lockheed Martin
**Ground Mobility Vehicle 1.0 (GMV 1.0)**

- 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:
  - Active Reset Operations
  - Lightweight Armor Materials
  - Suspension & Payload Improvements

<table>
<thead>
<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
</tr>
</thead>
</table>
| • Modified Service Common (MFP-2) | • Sustainment / Divestiture  
  • Reset as necessary | • Production ended in FY06  
  • Vehicle Reset has been continuous since FY09 |

<table>
<thead>
<tr>
<th>POINT OF CONTACT</th>
<th>FUNDING</th>
<th>CURRENT CONTRACT/OEM</th>
</tr>
</thead>
</table>
| • USSOCOM SOF AT&L, Engage SOF (eSOF)  
  (813) 826-9482 | • Final Resets to be complete in FY20  
  • Annual Prioritization Process for Reset  
  • Continue sustainment through OCO | • No Active OEM Contracts  
  • Reset: Letterkenney Army Depot (LEAD) |
# Joint Light Tactical Vehicle (JLTV)

- 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
  - Generation ongoing

### PERIOD OF PERFORMANCE
- FY20 & beyond

### MILESTONES
- SOF Operational Assessment – 4QFY19-1QFY20
- SOF C4I Integration kit Design/Testing – FY20

### POINT OF CONTACT
- USSOCOM SOF AT&L, Engage SOF (eSOF)
  - (813) 826-9482

### FUNDING
- TBD (awaiting OP Assessment)

### CURRENT CONTRACT/OEM
- Oshkosh Corporation (JPO)
- No Active SOCOM Contracts
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

<table>
<thead>
<tr>
<th>ACTIVE PRODUCTION</th>
<th>ACTIVE SUSTAINMENT</th>
<th>VEHICLES IN CONCEPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• NSCV</td>
<td>• LTATV (Lifecycle Replacement every 3-4 yrs)</td>
<td>• Purpose Built NSCV</td>
</tr>
<tr>
<td>• GMV 1.1</td>
<td>• M-ATV</td>
<td></td>
</tr>
<tr>
<td>• LTATV</td>
<td>• GMV 1.0 (SOF HMMWV)</td>
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Questions?
EXPANDING THE COMPETITIVE SPACE
SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

LTC R. Ramsey Oliver, Program Manager Counter Proliferation

SOF COUNTER UNMANNED AERIAL SYSTEMS

SOF AT&L
Family of Counter Unmanned Systems (FOCUS) program provides SOF with the ability to counter current and future unmanned system threats.

Research, develop, integrate, generate rapid prototypes, test and evaluate, and field/deploy cutting edge Counter-Small Unmanned (Aerial, Ground, & Maritime) Systems.

Multiple Combat Evaluations (CV) in various environments across the SOF community
• In Line With Executive Agent’s CUAS Priorities
• 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

Expeditionary Site - Mounted - Dismounted

ACQUISITION STRATEGY
• Lead Systems Integrator (LSI) acquisition strategy in development
• Other Transaction Authority (OTA) via DOD CWMD consort; FAR-based, existing contracts

PERIOD OF PERFORMANCE
• 10 years

MILESTONES
• JDAT Kinetic Defeat & GNSS Test Event - 3QFY20
• CDD / Program of Record Established - 4QFY20
• LSI Contract Anticipated - 2QFY21

POINT OF CONTACT
• USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

FUNDING
• $150M over FYDP

CURRENT CONTRACT/OEM
• Various
While we know that any course we set into the future will need revectoring over time, we see several trends and technologies that have the potential of evolving and potentially disrupting our current programs. Here are some of those trends and technologies, which affect the Hyper-Enabled Team into 2030:

<table>
<thead>
<tr>
<th>Enabler</th>
<th>Operational Narrative</th>
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<tbody>
<tr>
<td>Zero-PED ISR</td>
<td>Rather than sending raw data back to a cell of intelligence analysts, as processing power increases (either through quantum computing or increases in silicon-based computing) and artificial intelligence (AI) makes significant leaps ahead producing useful capability increases, we see today’s processing, analysis, exploitation, and dissemination being done by AI on servers in a team/platoon/squadron’s vehicles, and eventually on the individual operator.</td>
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# Driving the Future – Hyper-Enabled Teams  
(2 of 3)

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<td><strong>Zero-Orbit ISR</strong></td>
<td>Rather than putting large pod-carrying drones and aircraft in the sky to provide target identification and confirmation from altitude, we see tactical cyber exploitation of ubiquitous mobile phones and existing civilian infrastructure, paired with fully-autonomous small drones, as providing all the ISR necessary to execute targets.</td>
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<td><strong>Zero-Signature</strong></td>
<td>Advancements in signature management will make operators and their mobility platforms virtually invisible in both the visual and IR spectrums. As night vision proliferates world-wide, the ability to avoid detection will replace the ability to see at night as a dominant competitive factor.</td>
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<td><strong>Hyper-Connectivity</strong></td>
<td>In a hyper-connected world we’re already seeing a greater sensitivity to not only the local sentiment, but to the optic and narrative on all forms of media. We see objectives becoming increasingly virtual, narrative-based, and targeted more toward sentiment over individuals.</td>
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<td><strong>Remote-Presence</strong></td>
<td>Drones are already replacing human operators and dogs as the first in the door. As drones become increasingly capable, we see teams of drones executing objectives under the command of humans in increasingly remote locations of relative sanctuary with no presence near the objective.</td>
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<td><strong>Ubiquitous Flight</strong></td>
<td>Already flying taxi services with hundreds of air-vehicles are launching in Singapore and Dubai, and similar services are in the works in other nations. In the US, flying drone logistics and fully-autonomous ground vehicles are already breaking long-standing policy blockages, paving the way to the same. While flight will probably never make ground transportation obsolete, over the next decade we foresee a need to change the mix of large flying platforms and ground platforms to include smaller manned-unmanned flying platforms with maneuverability and speed characteristics parallel to what will exist where we operate.</td>
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# Driving the Future – Hyper-Enabled Teams (3 of 3)

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<td>Untethered Logistics</td>
<td>As the battlefield becomes more visible to all adversaries, the need to shift bases of operations more frequently and untether from normal logistics processes will increase. As such, we see technologies like water-from-air harvesting, solar/battery systems, and electric vehicles as helping lengthen the time teams can untether from logistics support. Additionally, we see logistics convoys and medevac as fundamentally transforming to autonomous flying and ground vehicles.</td>
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<tr>
<td>Mass through Manufacturing</td>
<td>Humans take decades to produce and train, and the morale effect of casualties is only growing in the hyper-connected, always-on world of social media and constant news. As such, drones will move from enabling humans to replacing humans as combatants—drones which can be mass produced in vast quantities by advanced nations, while poor nations will continue to use humans. This trend will drive the need to develop lighter, cheaper anti-materiel weapons as well as driving the development of anti-drone technologies for air, ground, and sea.</td>
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<tr>
<td>Urbanization</td>
<td>Already the majority of humanity lives in cities, and this trend will only increase as we see a doubling and potentially tripling in the number of mega-cities over the next decade. Increasingly, operations will take place in cities full of cameras, cyber-monitoring capabilities, hyper-connected opposition groups, and in areas that are increasingly hard for drones to access.</td>
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