



### SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Accelerating SOF Innovation

LTC Marcos Cervantes
Program Manager SOF Lethality
"Delivering Dominance"





# S.M.A.R.T. Cycle: Capability Set Development



(Simplified Material Acquisition for Rapid Transition)





# **Lethal Integrated Operator - Networked**

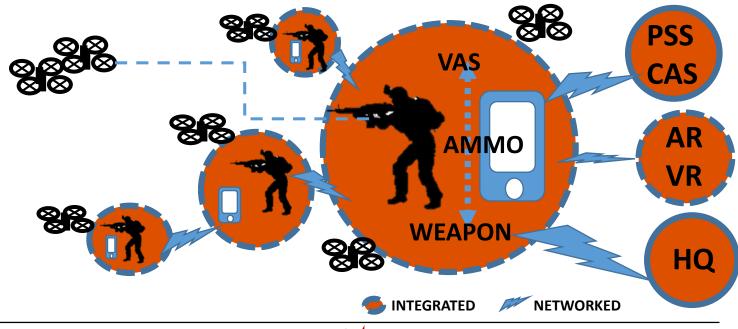


### Tech Interest Items Needed > 2 Years

### **LION CAPABILITY SET (REQUIREMENTS)**

- LION CORE
- LION URBAN
- LION RECCE
- LION ASSAULT-DEMO
- LION MOUNTED





### Precision Strike (PSS) & Ammunition

- PSS: Loiter Capability (Multiple Attack Flight Profiles)
- PSS: Munition Development (Recoverable)
- PSS: Operate in a GPS Denied Environment
- Breaching
- Riles (Sniper): 6.5 CM, .338 NM, .300 NM
- Cartridge Types: Precision, Armor Penetration
- Machine Gun: 6.5 CM, .338 NM
- Ball, One-Way Trace, Reduced Range, Blank, etc.
- Insertion of Lightweight Case Technology (All Cal.)
- Medium / Large Caliber Improved Fusing and Terminal Effects (30mm & 105mm) – Gunships
- Image based guidance



#### **Weapons and Accessories**

- Assault Machine Gun: 6.5 CM & Rule of "10 Fold"
- Under 14lbs
- Increase current barrel life by 10F
- Reduce Thermal and Decibel Signature by 10F
- Suppression Technology Increased by 10F
- Reduce Recoil and Blowback to Operator by 10F
- Kinetic CUAS Target Engagement Systems
- W/ Ground Applications (i.e. Smart Shooter)
   Fire Control
   Directed Energy



#### **Visual Augmentation Systems (VAS)**

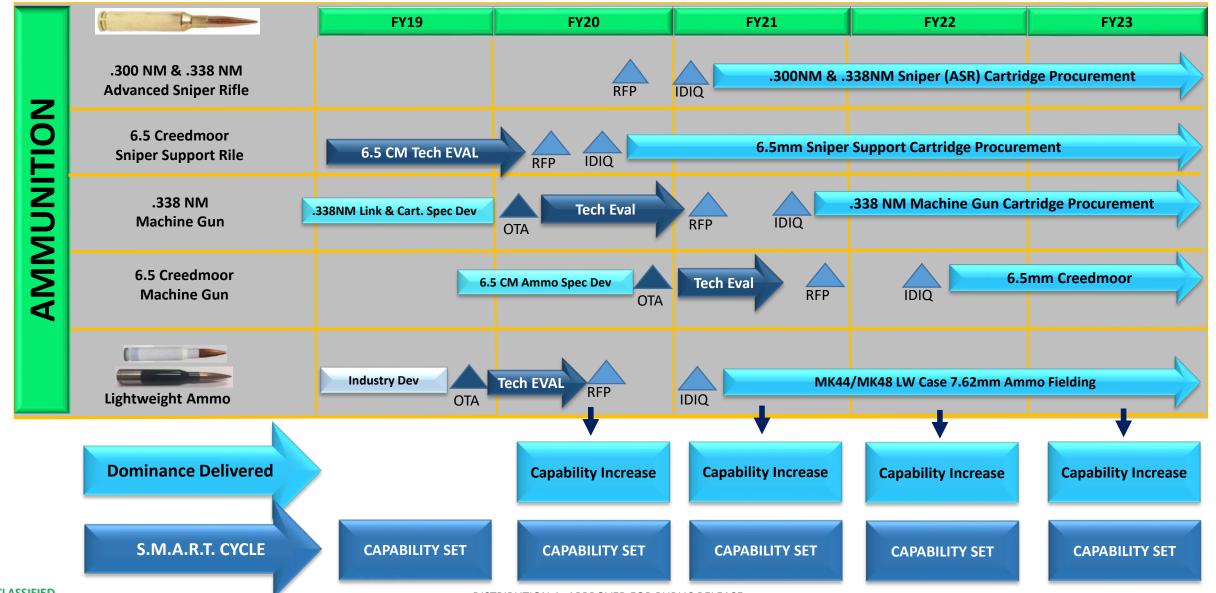
- Next Generation Identification and Characterization of Targets
- Means to turn information into decision quality data (via Heads up Display)
- Human-machine interface to make the data accessible and usable to all SOF echelons
- Ability to Network systems (Wired and Wireless)
- Reduce Wired Profile of systems
- IFF for Close Air Support (CAS)



### **Ammunition Portfolio Overview**



(Air Delivered, Bullet, Demolition & Shoulder Launched)

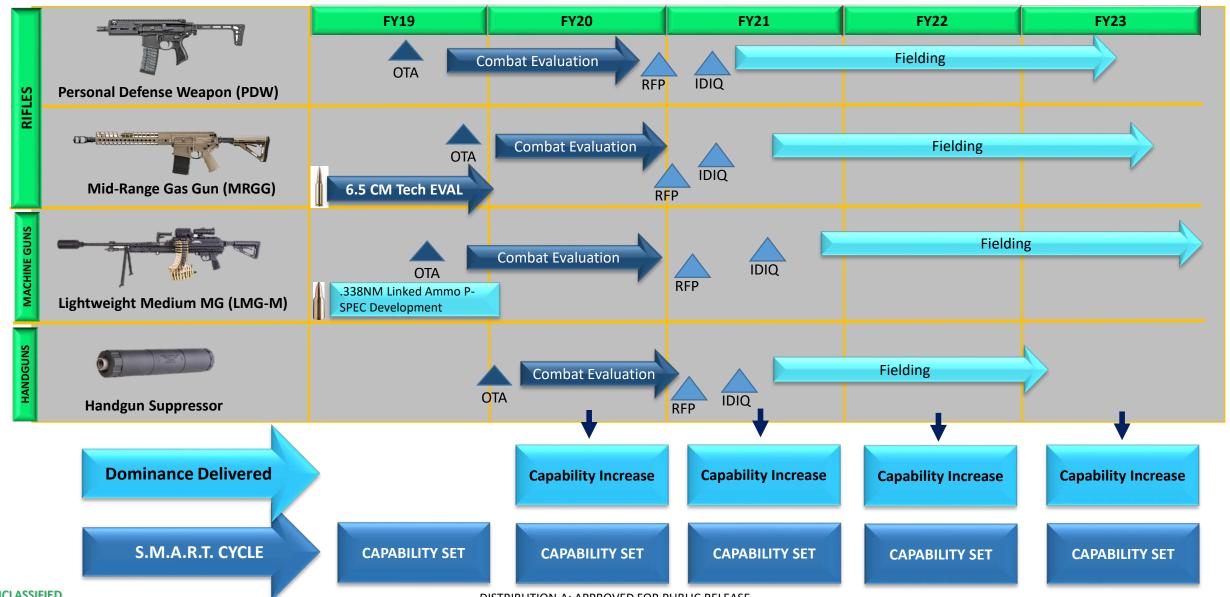




# **Weapons Portfolio Overview**



(Rifles, Machine Guns, Handguns, Ammunition)

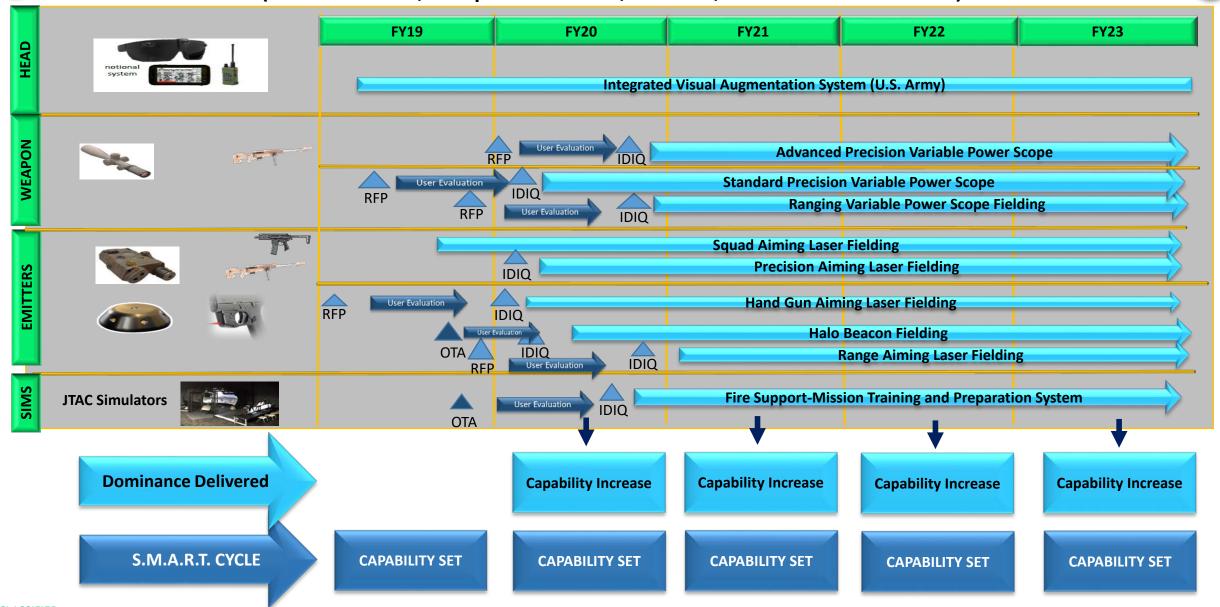




# **Visual Augmentation Systems Portfolio Overview**



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

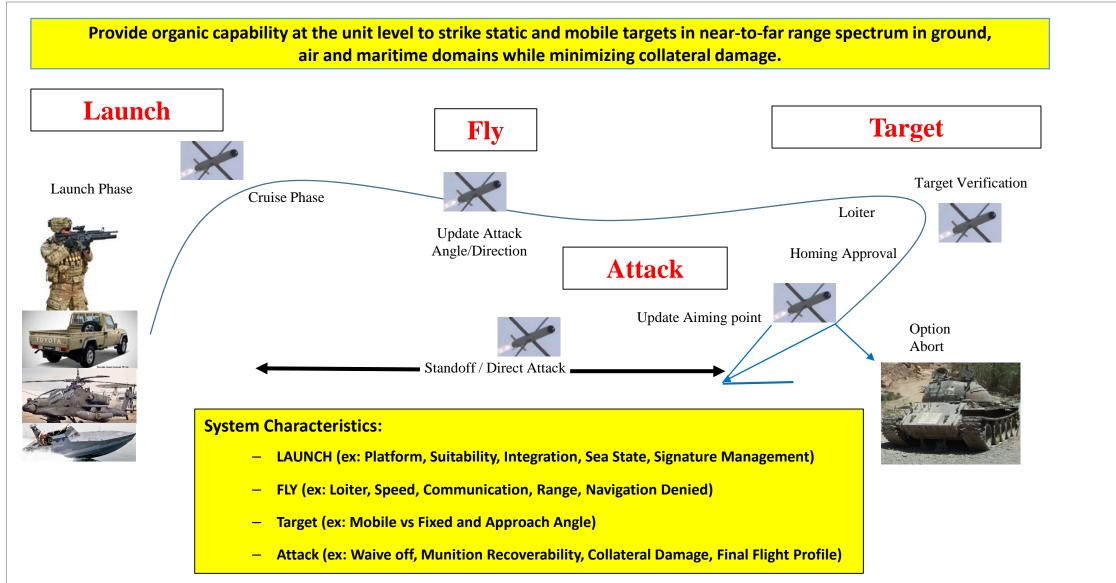




# **Organic Precision Strike Systems Overview**



(Air, Ground, Maritime)

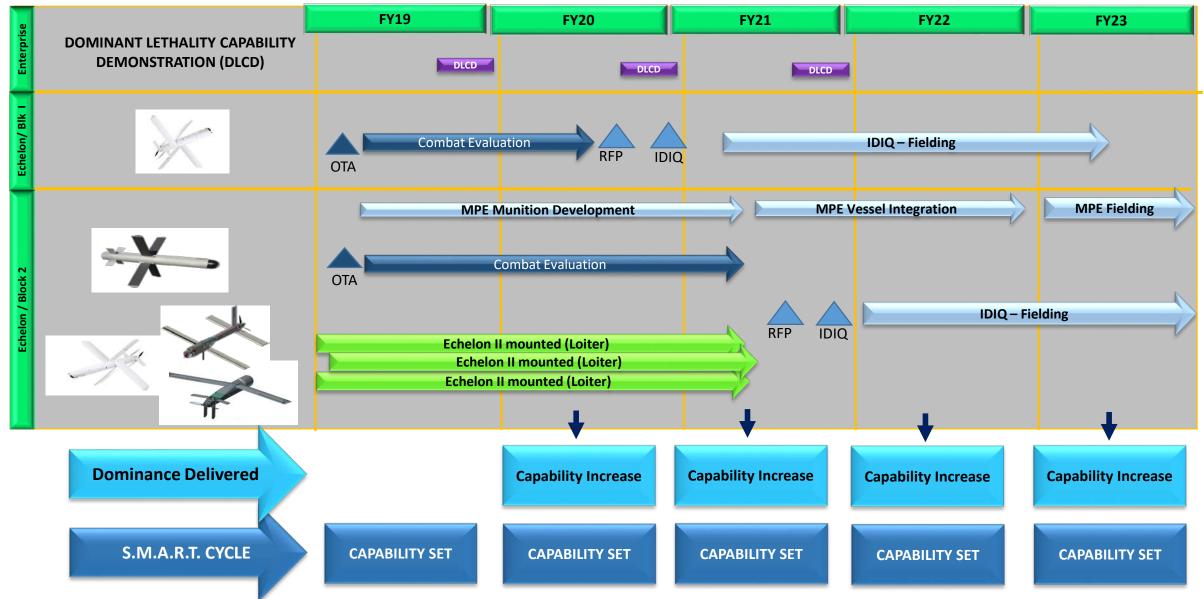




# **Organic Precision Strike Systems Portfolio Overview**



(Air, Ground, Maritime)





## Ammo, Demolitions, Breaching: Small Caliber



### **Advanced Sniper Rifle (ASR) Ammunition**

- 2018 National Defense Strategy acknowledged a Gap between US Forces and our adversaries relating to conventional and unconventional weapons
- Contract for procurement of .300 Norma Mag & .338 Norma Mag ammunition
- Ammunition will be built to Government Specifications



#### **ACQUISITION STRATEGY**

- Full and Open Competition
- IDIQ Contract

#### **PERIOD OF PERFORMANCE**

• 5 Years

#### **MILESTONES**

- RFP Release: 2<sup>nd</sup> QTR FY20
- Contract Award: 1st QTR FY21

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$20M

#### **CURRENT CONTRACT/OEM**





# Ammo, Demolitions, Breaching: Small Caliber



### **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: 1st QTR FY20
- Contract Award: 3rd QTR FY20

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$20M

#### **CURRENT CONTRACT/OEM**



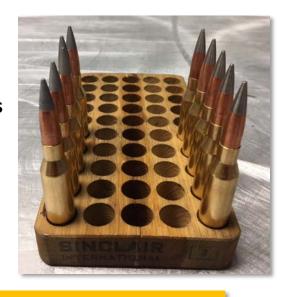


## Ammo, Demolitions, Breaching: Small Caliber



### 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: 1<sup>st</sup> QTR FY20
- RFP Release: 1st QTR FY21
- Contract Award: 3rd QTR FY21

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$20M

#### **CURRENT CONTRACT/OEM**





# 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: 3<sup>rd</sup> QTR FY19
- RFP Release: 2rd QTR FY20
- Contract Award: 1nd QTR FY21

#### POINT OF CONTACT

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$25M

#### **CURRENT CONTRACT/OEM**



# **Personal Defense Weapon (PDW)**



### **Personal Defense Weapon (PDW)**

- Provide versatile capabilities to SOF Operators for an Integrated Receiver Group (IRG)
  - orces and
- 2018 National Defense Strategy acknowledged a Gap between US Forces and our adversaries relating to conventional and unconventional weapons
- PDW Kit is a concealable .300 Blackout (BLK) upper receiver group and buttstock kit solution for the M4A1 platform
- PDW Kit consists of .300 BLK URG, 7.62 suppressor, folding buttstock, 5.56 training solution, reconfigurable ergonomic components, and 300BLK magazines

#### **ACQUISITION STRATEGY**

• Middle Tier Acquisition

#### **PERIOD OF PERFORMANCE**

• 3 Years

#### **MILESTONES**

- Combat Evaluation June 19 May 20
- Decision based on Evaluation June 20
- Request for Proposal Aug 20
- Contract Award: 1st Qtr. FY21

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, PM SL -Weapons (813) 826-4638

#### **FUNDING**

- \$1.3M Prototype
- \$2.5M Fielding

#### **CURRENT CONTRACT/OEM**

DOTC OTA



# Mid-Range Gas Gun - Sniper (MRGG-S)



### Mid-Range Gas Gun - Sniper

- The MRGG Project will provide 6.5 Creedmoor sniper support rifle that will decrease weight, increase range, and provide more accuracy over current sniper support 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**

- Vendor Shoot & User Down Select Jun 19
- Combat Evaluation Oct 19 May 20
- Decision based on Evaluation June 20
- Request for Proposal Aug 20
- Contract Award: 2<sup>nd</sup> Qtr. FY21

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, PM SL -Weapons (813) 826-4638

#### **FUNDING**

- \$1.5M Prototype
- \$10M Fielding

#### **CURRENT CONTRACT/OEM**

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



#### **ACQUISITION STRATEGY**

• Middle Tier Acquisition

#### **PERIOD OF PERFORMANCE**

• 5 Year IDIQ

#### **MILESTONES**

- Combat Evaluation Oct 19 May 20
- Decision Point Jun 20
- Request for Proposal Oct 20
- Contract Award: 3<sup>rd</sup> Qtr. FY21

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, PM SL -Weapons (813) 826-4638

#### **FUNDING**

- \$1.2M Prototype
- \$49M Fielding

#### **CURRENT CONTRACT/OEM**

DOTC OTA



# **Handgun Suppressor**



### **Suppressor**

- Replace the current MK27 Handgun Suppressor
- Reduced weight & reduced audible signature
- 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**

- MTA Authority Granted Sep 19
- Evaluation for Down Select Jan 20
- Acquisition of Prototypes Feb 20
- Request for Proposal Nov 19
- Contract Award 2<sup>nd</sup> Qtr. FY 21

#### POINT OF CONTACT

 USSOCOM SOF AT&L, PM SL -Weapons (813) 826-4638

#### **FUNDING**

- \$500K Prototype
- \$2M Fielding

#### **CURRENT CONTRACT/OEM**

• USSOCOM 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

### 92 1113m Rz 1 2 ... 2 3 ... 3 ... 4 ... 4 ... 6 ... 6 ... 6 ... 6 ... 6 ...

#### **ACQUISITION STRATEGY**

- Full and Open Competition
- IDIQ Contract

#### **PERIOD OF PERFORMANCE**

• 5 Years + 5 option years

#### **MILESTONES**

- RFP Release: November 2019
- Receive Proposals: 2<sup>nd</sup> QTR FY20
- Source Selection: 3rd QTR FY20
- Contract Award: 4th QTR FY20

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$49M

#### **CURRENT CONTRACT/OEM**

• N00164-18-R-JQ60



# Standard 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.
- T3 reticle
- First Focal Plane
- Variable power
  - Standard: 3-7X to greater or equal to 24X continuous zoom
  - Long Range: 3-7X to greater or equal to 32X continuous zoom

#### **ACQUISITION STRATEGY**

- Full and Open Competition
- IDIQ Contract

#### **PERIOD OF PERFORMANCE**

• 5 Years + 5 option years

#### **MILESTONES**

- RFP Release: February 2019
- Receive Proposals: April 2019
- Source Selection: 4th QTR FY19
- Contract Award: 1st QTR FY20

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$49M

#### **CURRENT CONTRACT/OEM**

• N00164-19-R-JQ57





# Ranging Variable Powered Scope (R-VPS)



### 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

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

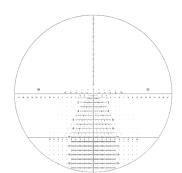
• \$45M

#### **MILESTONES**

- RFP Release: 4<sup>th</sup> QTR FY19
- Receive Proposals: 1st QTR FY20
- Source Selection: 2<sup>nd</sup> QTR FY20
- Contract Award: 4th QTR FY20

#### **CURRENT CONTRACT/OEM**

• N00164-20-R-JQ71





# Precision Aiming Laser (PAL)



### Miniature Aiming System – Laser (MAS L)

- Tactical laser for the Advanced Sniper Rifle (ASR) and Anti-Material Rifle (AMR)
- Compatible with clip-on night sensors and air platform night sensors to effectively define target locations during engagements
- Combines the range finder with a ballistics and environmental sensor/processor to include wind-sensing from the shooter to the target
- Tactical laser for the Advanced Sniper Rifle (ASR) and Anti-Material Rifle (AMR)
- The ballistics and environmental processing function could be embedded within the laser device, detached as a module, or provided by a handheld instrument.
- Capability is necessary for "smart-scope" integration on SOF small arms.





#### **ACQUISITION STRATEGY**

- Full and Open Competition
- IDIQ Contract

#### **PERIOD OF PERFORMANCE**

• 5 Years + 5 option years

#### **MILESTONES**

• RFP Release: 10 Dec 2018

• Receive Proposals: 30 April 2019

• Source Selection: 4nd QTR FY19

• Contract Award: 1st QTR FY20

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$35.3M

#### **CURRENT CONTRACT/OEM**

• N00164-18-R-JQ56





# Ranging Aiming Laser (RAL)



### Miniature Aiming System – Laser (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)
- Compatible with clip-on night sensors and air platform night sensors to effectively define target locations during engagements
- LRF acquisition to 1000m





#### **ACQUISITION STRATEGY**

- Full and Open Competition
- IDIQ Contract

#### **PERIOD OF PERFORMANCE**

• 5 Years + 5 option years

#### **MILESTONES**

- RFP Release: 4th QTR FY19
- Receive Proposals: 1st QTR FY20
- Source Selection: 2<sup>nd</sup> QTR FY20
- Contract Award: 4<sup>th</sup> QTR FY20

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$44.9M

#### **CURRENT CONTRACT/OEM**

• N00164-18-R-JQ(TBD)



# Handgun Aiming Laser (HAL)



### Miniature Aiming System – Laser (MAS L)

- Near Infrared laser device
- Family of Low Visibility and Concealable Pistols (FLVCP)
- New requirement within VAS portfolio



#### **ACQUISITION STRATEGY**

- Full and Open Competition
- IDIQ Contract

#### **PERIOD OF PERFORMANCE**

• 5 Years + 5 option years

#### **MILESTONES**

- RFP Release: 10 Dec 2018
- Receive Proposals: May 2019
- Source Selection: 4th QTR FY19
- Contract Award: 1st QTR FY20

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$5.5M

#### **CURRENT CONTRACT/OEM**

• N00164-18-R-JQ48



# JTAC Fire Support-Mission Training & Preparation (FS-MTPS)



### JTAC Immersive-

Realistic, high fidelity, interactive, immersive training & mission rehearsal system for Tactical Air Control Party (TACP) and Combat Controller (CCT) Joint Terminal Attack Controllers (JTACs)







#### **ACQUISITION STRATEGY**

- Full and Open Competition
- IDIQ Contract

#### **PERIOD OF PERFORMANCE**

• 5 Years

#### **MILESTONES**

- RFP Release: 4th QTR FY19
- Receive Proposals: 4th QTR FY19
- Source Selection: 2th QTR FY20
- Contract Award: 3rd QTR FY20

#### **POINT OF CONTACT**

• PEO-STRI

#### **FUNDING**

• \$49M

#### **CURRENT CONTRACT/OEM**

None



# Maritime Precision Engagement (MPE)



- Maritime Precision Engagement (MPE) Munition
  - MPE will be mounted on SOF Combatant Craft Medium (CCM) and Combatant Craft Heavy (CCH) Maritime Vessels.
  - 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.

#### **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**

• 3 Years

#### **MILESTONES**

- AMTC Topic Announcement and Industry Day: 1st QTR FY19.
- Dominant Lethality Capability Demo (DLCD):
   3<sup>rd</sup> Qtr FY19, 3<sup>rd</sup> Qtr FY20, 3<sup>rd</sup> Qtr FY21.

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$53M

#### **CURRENT CONTRACT/OEM**

- DOTC 19-01
- AMTC GM 002



# **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 nearto-far range spectrum in ground, air and maritime domains 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.

#### **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**

• 3 Years

#### **MILESTONES**

- AMTC Topic Announcement and Industry Day: 1st QTR FY19.
- Dominant Lethality Capability Demo (DLCD): 3rd Qtr FY19, 3rd Qtr FY20, 3rd Qtr FY21.

#### **POINT OF CONTACT**

 USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

#### **FUNDING**

• \$10M

#### **CURRENT CONTRACT/OEM**

- DOTC 19-01
- AMTC GM 002