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)

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
Ammunition Portfolio Overview
(Air Delivered, Bullet, Demolition & Shoulder Launched)

<table>
<thead>
<tr>
<th>AMMUNITION</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.300 NM &amp; .338 NM Advanced Sniper Rifle</td>
<td></td>
<td>RFP</td>
<td>IDIQ</td>
<td>6.5mm Sniper Support Cartridge Procurement</td>
<td></td>
</tr>
<tr>
<td>6.5 Creedmoor Sniper Support Rifle</td>
<td>6.5 CM Tech EVAL</td>
<td>RFP</td>
<td>IDIQ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.5 Creedmoor Machine Gun</td>
<td>6.5 CM Tech EVAL</td>
<td>RFP</td>
<td>IDIQ</td>
<td></td>
<td>6.5mm Creedmoor</td>
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<tr>
<td>Lightweight Ammo</td>
<td>Industry Dev</td>
<td>Tech EVAL</td>
<td>RFP</td>
<td>IDIQ</td>
<td>MK44/MK48 LW Case 7.62mm Ammo Fielding</td>
</tr>
</tbody>
</table>

Dominance Delivered
S.M.A.R.T. CYCLE

Capability Increase
CAPABILITY SET

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
## Weapons Portfolio Overview

*(Rifles, Machine Guns, Handguns, Ammunition)*

<table>
<thead>
<tr>
<th></th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
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<tbody>
<tr>
<td><strong>RIFLES</strong></td>
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<tr>
<td>Personal Defense Weapon (PDW)</td>
<td>OTA</td>
<td>Combat Evaluation</td>
<td>RFP</td>
<td>IDIQ</td>
<td>Fielding</td>
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<tr>
<td>Mid-Range Gas Gun (MRGG)</td>
<td>OTA</td>
<td>Combat Evaluation</td>
<td>RFP</td>
<td>IDIQ</td>
<td>Fielding</td>
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<tr>
<td>Lightweight Medium MG (LMG-M)</td>
<td>6.5 CM Tech EVAL</td>
<td>OTA</td>
<td>Combat Evaluation</td>
<td>RFP</td>
<td>IDIQ</td>
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<tr>
<td><strong>MACHINE GUNS</strong></td>
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<td><strong>HANDGUNS</strong></td>
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<tr>
<td>Handgun Suppressor</td>
<td>OTA</td>
<td>Combat Evaluation</td>
<td>RFP</td>
<td>IDIQ</td>
<td>Fielding</td>
</tr>
</tbody>
</table>

**S.M.A.R.T. CYCLE**

**Dominance Delivered**

**CAPABILITY SET**

**Capability Increase**

**Distribution A: APPROVED FOR PUBLIC RELEASE**
# Visual Augmentation Systems Portfolio Overview

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

<table>
<thead>
<tr>
<th>FY19</th>
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<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
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<tr>
<td><strong>Integrated Visual Augmentation System (U.S. Army)</strong></td>
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<tr>
<td><strong>Advanced Precision Variable Power Scope</strong></td>
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<tr>
<td><strong>Standard Precision Variable Power Scope</strong></td>
<td><strong>Ranging Variable Power Scope Fielding</strong></td>
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<tr>
<td><strong>Squad Aiming Laser Fielding</strong></td>
<td></td>
<td><strong>Precision Aiming Laser Fielding</strong></td>
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<tr>
<td><strong>Hand Gun Aiming Laser Fielding</strong></td>
<td><strong>Halo Beacon Fielding</strong></td>
<td></td>
<td><strong>Range Aiming Laser Fielding</strong></td>
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<tr>
<td><strong>Fire Support-Mission Training and Preparation System</strong></td>
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**S.M.A.R.T. CYCLE**

- **Dominance Delivered**
- **Capability Increase**
- **Capability Set**

**DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE**
Organic Precision Strike Systems Overview
(Air, Ground, Maritime)

Provide organic capability at the unit level to strike static and mobile targets in near-to-far range spectrum in ground, air and maritime domains while minimizing collateral damage.

**Launch**
- Launch Phase

**Fly**
- Cruise Phase
  - Update Attack Angle/Direction

**Target**
- Target Verification
  - Loiter
  - Homing Approval
  - Option Abort

**Attack**
- Update Aiming point
- Standoff / Direct Attack

**System Characteristics:**
- **LAUNCH** (ex: Platform, Suitability, Integration, Sea State, Signature Management)
- **FLY** (ex: Loiter, Speed, Communication, Range, Navigation Denied)
- **Target** (ex: Mobile vs Fixed and Approach Angle)
- **Attack** (ex: Waive off, Munition Recoverability, Collateral Damage, Final Flight Profile)
Organic Precision Strike Systems Portfolio Overview
(Air, Ground, Maritime)

**DOMINANT LETHALITY CAPABILITY DEMONSTRATION (DLCD)**

- **FY19**: DLCD
- **FY20**: DLCD
- **FY21**: DLCD
- **FY22**: DLCD
- **FY23**: DLCD

**Echelon II mounted (Loiter)**

- **Combat Evaluation**: OTA
- **IDIQ – Fielding**
- **MPE Munition Development**
- **MPE Vessel Integration**
- **MPE Fielding**

**Echelon / Block 2**

- **OTA**
- **RFP**
- **IDIQ**

**Dominance Delivered**

**S.M.A.R.T. CYCLE**

**CAPABILITY SET**

**CAPABILITY SET**

**CAPABILITY SET**

**CAPABILITY SET**

**CAPABILITY SET**

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
# 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: 2nd 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
- N/A
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**
- 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: 1st 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
- 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: 2nd QTR FY20
- Contract Award: 1st QTR FY21

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

### Funding
- $25M

### Current Contract/OEM
- N/A

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
Personal Defense Weapon (PDW)

- Provide versatile capabilities to SOF Operators for an Integrated Receiver Group (IRG)
- 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

### Funding
- $1.3M Prototype
- $2.5M Fielding

### Current Contract/OEM
- DOTC OTA

### Point of Contact
- USSOCOM SOF AT&L, PM SL - Weapons
  (813) 826-4638
## 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: 2nd 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

<table>
<thead>
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<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
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<tbody>
<tr>
<td>• Middle Tier Acquisition</td>
<td>• 5 Year IDIQ</td>
<td>• Combat Evaluation Oct 19 – May 20</td>
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<tr>
<td></td>
<td></td>
<td>• Decision Point Jun 20</td>
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<tr>
<td></td>
<td></td>
<td>• Request for Proposal Oct 20</td>
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<td>• Contract Award: 3rd Qtr. FY21</td>
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<tr>
<th>POINT OF CONTACT</th>
<th>FUNDING</th>
<th>CURRENT CONTRACT/OEM</th>
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<td>• USSOCOM SOF AT&amp;L, PM SL - Weapons</td>
<td>• $1.2M Prototype</td>
<td>• DOTC OTA</td>
</tr>
<tr>
<td>(813) 826-4638</td>
<td>• $49M Fielding</td>
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</tbody>
</table>
# 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 2nd 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

### Acquisition Strategy

- Full and Open Competition
- IDIQ Contract

### Period of Performance

- 5 Years + 5 option years

### Milestones

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

### Funding

- $49M

### Current Contract/OEM

- N00164-18-R-JQ60

### Point of Contact

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

**MILESTONES**
- RFP Release: 4th QTR FY19
- Receive Proposals: 1st QTR FY20
- Source Selection: 2nd QTR FY20
- Contract Award: 4th QTR FY20

**FUNDING**
- $45M

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

**FUNDING**

- $44.9M

**CURRENT CONTRACT/OEM**

- N00164-18-R-JQ(TBD)

**POINT OF CONTACT**

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

**DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE**
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)

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<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
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</table>
| • Full and Open Competition  
  • IDIQ Contract | • 5 Years | • RFP Release: 4th QTR FY19  
  • Receive Proposals: 4th QTR FY19  
  • Source Selection: 2th QTR FY20  
  • Contract Award: 3rd QTR FY20 |

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<td>• PEO-STRI</td>
<td>• $49M</td>
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DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
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**
- 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**
- $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 near-to-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.

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  • Other Transaction Authority (OTA) via Department Of Defense Ordnance Technology Consortium DOTC or Aviation & Missile Technology Consortium | • 3 Years | • AMTC Topic Announcement and Industry Day: 1st QTR FY19.  
• Dominant Lethality Capability Demo (DLCD): 3rd Qtr FY19, 3rd Qtr FY20, 3rd Qtr FY21. |

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  (813) 826-9482 | • $10M | • DOTC 19-01  
• AMTC GM 002 |