

# SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

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AMMO & WEAPONS



SOF WARRIOR



# Ammo & Weapons Portfolio

## Visual Augmentation Systems

- Helmet Mounted
- Handheld
- Weapon Mounted



Sniper Scope w/Improved Night Observation Device (INOD)



Combat Optics and Lasers



Night Vision Goggle w/ Clip-on Thermal Imager



Hand Held Imagers

## Weapons and Accessories

- Combat Assault Rifles
- Machine Guns
- Sniper Rifles
- Suppressors



Combat Assault Rifle



MK13 MOD 7 Sniper Rifle



Advanced Lightweight Grenade Launcher

## Ammunition, Demolitions and Breaching

- Small Caliber Ammunition
- Shoulder Fired Systems
- Aviation Ammunition
- Demolitions and Pyrotechnics



Lightweight Shoulder Launched Weapon



AC-130 ammo



Lead-free Training Ammo

## Non Standard

- Small Caliber Ammunition
- Non-Standard Arms



Non-Standard Munitions

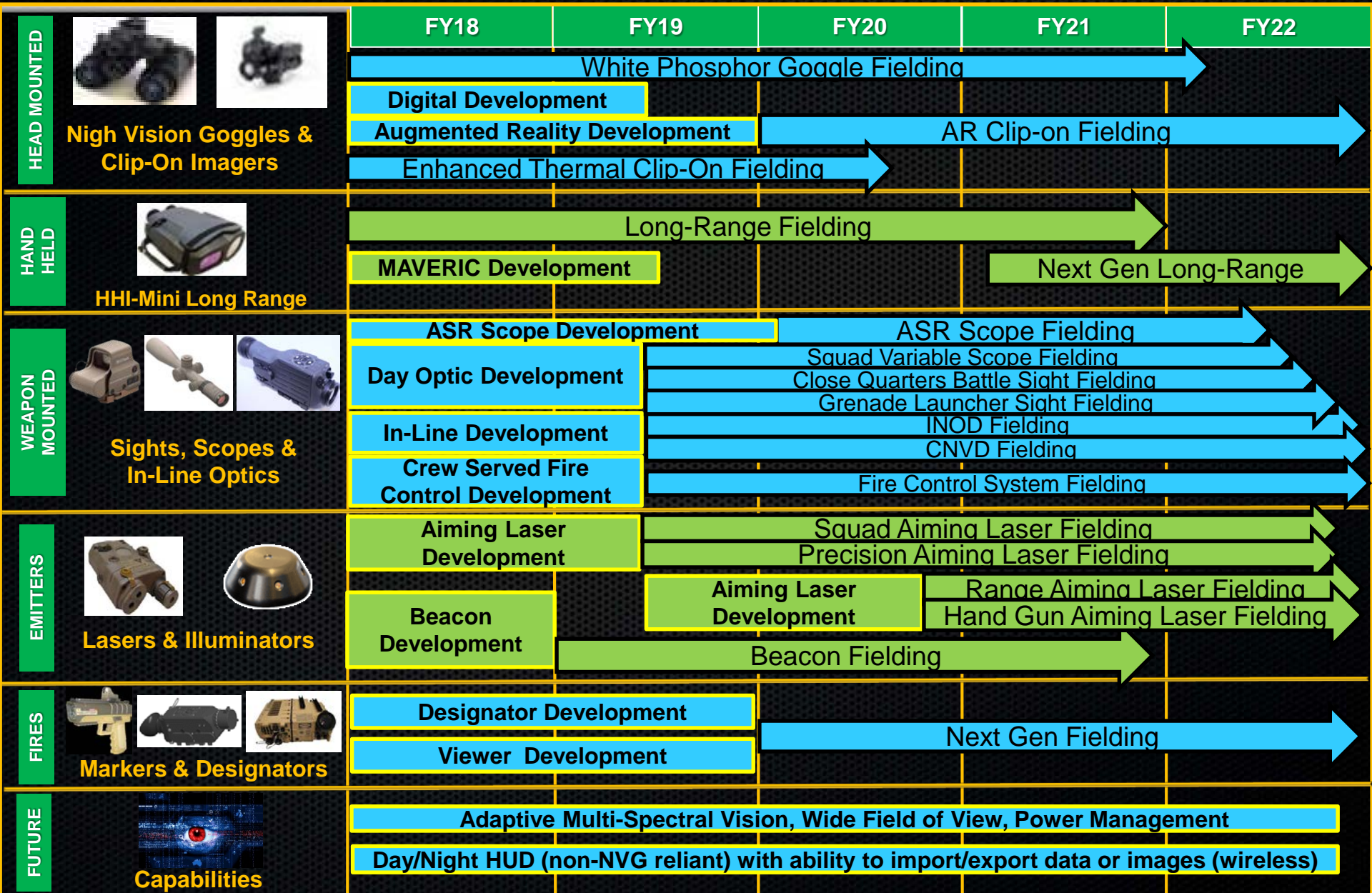


Non-Standard Arms



Non-Standard Arms

# Visual Augmentation Systems Portfolio Overview



# VAS: Lasers / MAS-L

## Squad Aiming Laser

- Reduced size and weight replacement for the Miniature Day/Night Sight (MDNS)-Advanced Target Pointer, The Advanced Target Pointing Illuminator Aiming Laser (ATPIAL) for Compact Rifles (CRs) and Assault Rifles (Ars) for 0-600 meter engagements
- Precision targeting of enemy threats in the IR and visible laser mode as well as providing an IR illuminator capability



### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- RFP Release: 3<sup>rd</sup> QTR FY17
- Receive Proposals: 1st QTR FY18
- Source Selection: 2nd QTR FY18
- Contract Award: 4th QTR FY18

### POINT OF CONTACT

- 813.826.9482 (TILO)

### FUNDING

- \$48M

### CURRENT CONTRACT/OEM

- N00164-16-D-JQ88
  - N00164-17-R-JQ27
- Crane, IN

# VAS: Weapon Mounted

## Enhanced Combat Optical Sight

- Procurement of Enhanced Combat Optical Sight - Carbine for the next generation SU-230/PVS and SU-261/PVS family of systems
- Improve on current performance parameters
  - Threshold engagement range of 500M, objective of 1000M
  - Large eye-box, low parallax, and integrated aim point (1x)
  - Reticle configurations for both 5.56mm and 7.62mm weapons
  - Weight comparable to existing platforms
  - Variable magnification from 1x to 6x and/or 1x to 8x.  
(based overall performance)
- Compatible with SOF assault weapons and light machine guns
- MK 17 Combat Assault Rifle shock hardened



### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- RFP Release: 4th QTR FY17
- Receive Proposals: 1st QTR FY18
- Source Selection: 2nd QTR FY18
- Contract Award: 4th QTR FY18

### POINT OF CONTACT

- 813.826.9482 (TILO)

### FUNDING

- \$25.9M

### CURRENT CONTRACT/OEM

- N00164-10-D-JQ28

# VAS: Weapon Mounted

## Handgun Reflex Sight (HRS) = MAS-D

- Visible and infrared pointer and illuminator intended for day and night use
- Dual-band multi-spectrum, laser pointer and illuminator function to lessen enemy detectability of the NIR spectrum
- Micro data displays
- Handheld ballistic/environmental processors
- Target engagement systems



### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- RFP Release: 3rd QTR FY17
- Receive Proposals: 4th QTR FY17
- Source Selection: 2nd QTR FY18
- Contract Award: 4th QTR FY18

### POINT OF CONTACT

- 813.826.9482 (TILO)

### FUNDING

- \$10M

### CURRENT CONTRACT/OEM

- N00164-17-R-JQ25

# VAS: Weapon Mounted

## Squad-Variable Powered Scope = MAS-D, Miniature Aiming System - Day Optic (S-PVS)

- Smart Aiming Systems
- Maximize ability to acquire and rapidly engage threats with well aimed accurate fires throughout the range of engagements to the maximum capability of SOF small arms
- Early threat detection
- Reduced operator exposure
- Allow operator to engage quickly and accurately
- Intuitive reticle that facilitates rapid range estimation



### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- RFP Release: 3rd QTR FY17
- Receive Proposals: 4th QTR FY17
- Source Selection: 4th QTR FY17
- Contract Award: 2nd QTR FY18

### POINT OF CONTACT

- 813.826.9482 (TILO)

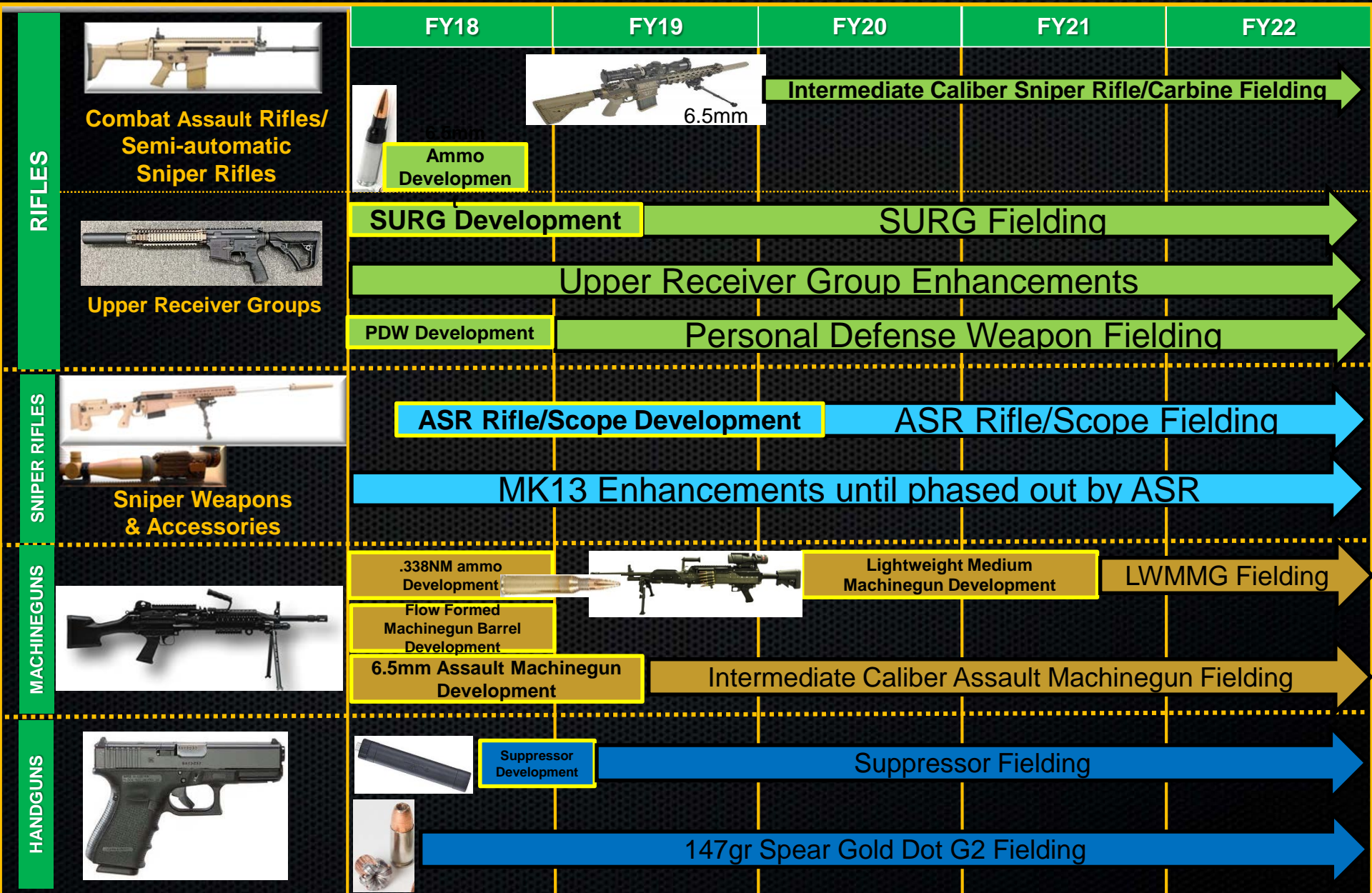
### FUNDING

- \$47.6M

### CURRENT CONTRACT/OEM

- N00164-17-R-JQ27

# Weapons Portfolio Overview





# Weapons and Accessories: Sniper Rifles

## Advanced Sniper Rifle

- Contract for procurement of Advanced Sniper Rifle
- Provides a multi-caliber solution to engage enemy targets out to 1500m
- System must be user configurable to rapidly change calibers.
- Optimized for anti-personnel at 1500m

### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- RFP Release: 2nd QTR FY18
- Contract Award: 4th QTR FY18

### POINT OF CONTACT

- 813.826.9482 (TILO)

### FUNDING

- \$49M

### CURRENT CONTRACT/OEM

- N/A

# Weapons and Accessories: Machineguns

## Long Range Medium Machinegun

- Contract for procurement of Long Range Medium Machinegun
- Provides a 2000m engagement capability
- System must be of comparable weight to the current M240B machinegun
- Optimized for ammunition in polymer
- System should include advanced barrel, suppressor, and thermal mitigation technology

### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- RFP Release: 2nd QTR FY19
- Contract Award: 4th QTR FY19

### POINT OF CONTACT

- 813.826.9482 (TILO)

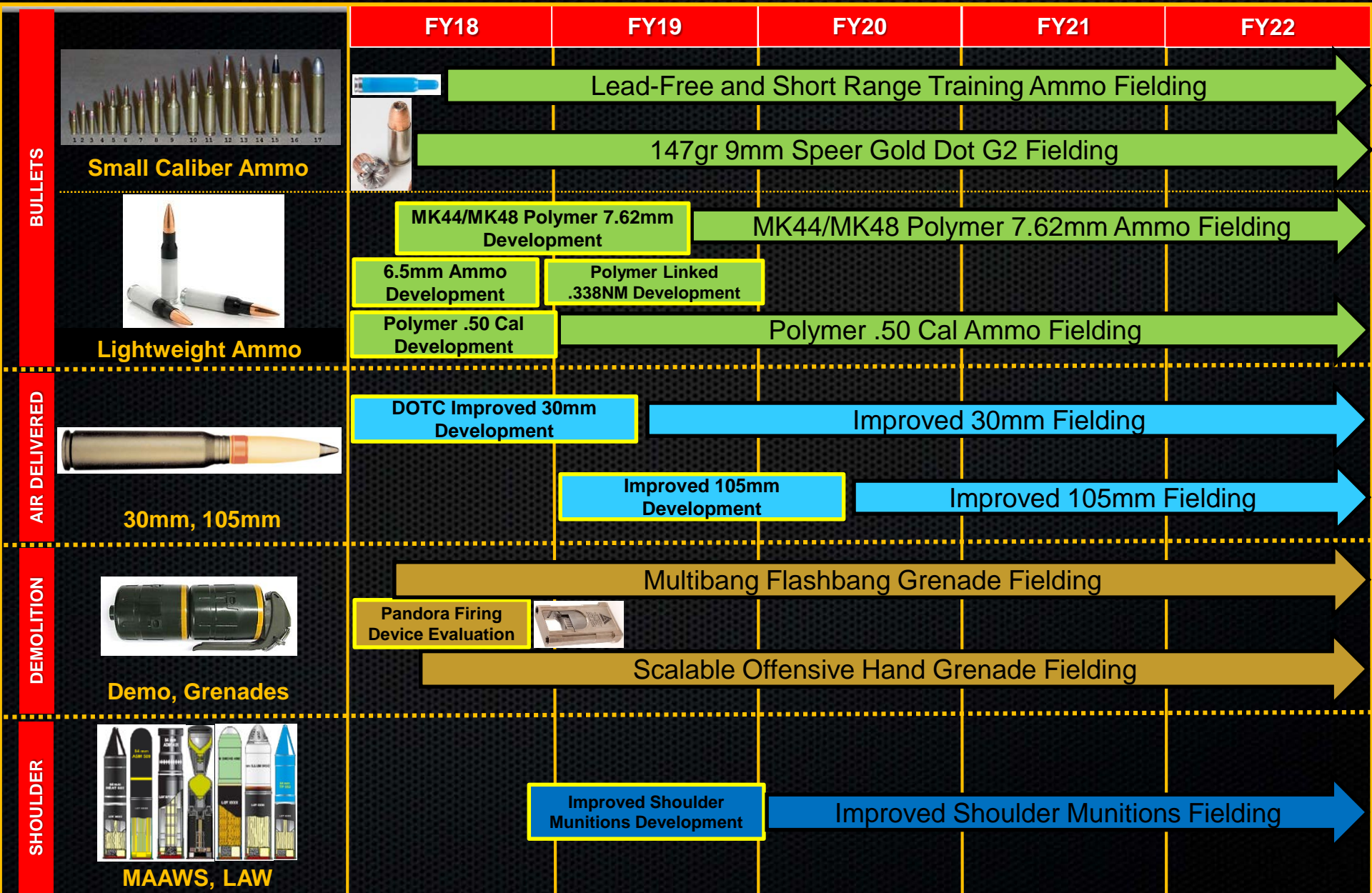
### FUNDING

- \$49M

### CURRENT CONTRACT/OEM

- N/A

# Ammunition Portfolio Overview



BULLETS

AIR DELIVERED

DEMOLITION

SHOULDER



Small Caliber Ammo



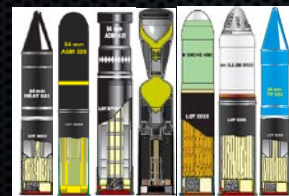
Lightweight Ammo



30mm, 105mm



Demo, Grenades



MAAWS, LAW

FY18

FY19

FY20

FY21

FY22

Lead-Free and Short Range Training Ammo Fielding

147gr 9mm Speer Gold Dot G2 Fielding

MK44/MK48 Polymer 7.62mm Development

MK44/MK48 Polymer 7.62mm Ammo Fielding

6.5mm Ammo Development

Polymer Linked .338NM Development

Polymer .50 Cal Development

Polymer .50 Cal Ammo Fielding

DOTC Improved 30mm Development

Improved 30mm Fielding

Improved 105mm Development

Improved 105mm Fielding

Pandora Firing Device Evaluation

Multibang Flashbang Grenade Fielding

Scalable Offensive Hand Grenade Fielding

Improved Shoulder Munitions Development

Improved Shoulder Munitions Fielding

# Ammo, Demolitions, Breaching: Small Caliber

## Lead-Free Training Ammunition

- Contract for procurement of lead-free training ammunition
- Compatible with Shoot House requirements
- Short range training ammunition for 5.56mm to replace M862
  - Related efforts include Man Marker Round for 5.56mm (linked and unlinked), and alternative 9mm Simunition FX cartridge



### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- RFP Release: 3rd QTR FY18
- Contract Award: 1st QTR FY19

### POINT OF CONTACT

- 813.826.9482 (TILO)

### FUNDING

- \$20M

### CURRENT CONTRACT/OEM

- N/A

# Lightweight Ammunition

- Contract for procurement of lightweight polymer ammunition
  - 50-caliber sniper round (unlinked)
  - 50-caliber non dud-producing training round
  - Intermediate caliber such as 260 Remington
  - 7.62mm NATO for use in the MK44 (mini-gun)
- Should reduce overall cartridge weight by over 30% compared to existing rounds

## ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

## PERIOD OF PERFORMANCE

- 5 Years

## MILESTONES

- RFP Release: 3rd QTR FY17
- Contract Award: 1<sup>st</sup> QTR FY18

## POINT OF CONTACT

- 813.826.9482 (TILO)





## FUNDING

- \$20M

## CURRENT CONTRACT/OEM

- N/A

# Non-Standard Weapons Portfolio Overview

	FY18	FY19	FY20	FY21	FY22
<b>Assault Rifles</b> 	Domestic Production Development	U.S. Domestically produced AK Fielding			
<b>Lightweight Machinegun</b> 	Domestic Production Development	U.S. Domestically produced PKM Fielding			
<b>MACHINEGUNS</b>  NSV	Domestic Production Development	U.S. Domestically produced NSV Fielding			
<b>SHOULDER FIRED</b>  RPG	Seeking Domestic Production Capability				

# Non-Standard Small Arms Ammunition

## Non-Standard Ammunition

- Contracts for procurement of nonstandard ammunition
  - 7.62x39
  - 7.62x54R
  - 12.7x108
  - 14.5x115
  - 23x152B
- One of the effects of these contracts will be to strengthen our domestic industrial base for nonstandard ammunition



### ACQUISITION STRATEGY

- Full and Open Competition
- IDIQ Contract

### PERIOD OF PERFORMANCE

- 5 Years

### MILESTONES

- RFP Release: Quarterly
- Contract Award: Quarterly

### POINT OF CONTACT

- 813.826.9482 (TILO)

### FUNDING

- \$20M

### CURRENT CONTRACT/OEM

- N/A

# Ammo and Weapon Business Opportunities

- **Signature Reduction technologies for Targeting Laser (Out of Band and Virtual Laser)**
- **Domestic sources of production for non-standard ammo and weapons**
- **Lightweight Polymer Ammunition, Toxin Free**
- **Signature reduction for Small Arms- Sound, Flash**
- **Intermediate Caliber (.338NM)- Long Range Machine Gun 2000m to include new tripod and polymer ammunition,**
- **6.5mm Sniper Support Rifle**
- **Multispectral laser spotting device (day/night) (SWIR/MWIR)**
- **Seamless transition to weapon sight while wearing NODs (Carbine)**
- **Night Vision technologies that offers a better infinity view (like daytime non-augmented vision)**
- **Extended wavelength (with MWIR capability)**
- **Wireless Data Sharing (ie. wind, range, shooting solution) -Ability to display imported data and images on HD Display**
- **Through Wall Sensing and Imaging**
- **Universal Wireless Power / Power Management**
- **True Color night vision**
- **Multispectral pointer, marker, designator (MWIR/SWIR)**
- **Wireless Remote Weapon System Control (from shooting position)**
- **JTAC simulators/simulation (laptop, deployable, 360) immersive 3 dimensional interactive mixed reality environment**
- **Beacon Technologies (MWIR) extended ranges**



# Questions



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