Evolution of USASOC
Future Force Capabilities

MAY 2017
We must **adapt** our current equipment and use commercially available technologies in the near-term to meet current operational needs. We will **evolve** in the mid-term to increase the expeditionary capabilities of the force and address challenges to overmatch. We will **innovate** in the long-term by investment in science and technology for affordable solutions which provide asymmetrical advantages and provide combat, theater foundational and enabling capabilities to the Joint Force.

- 2015 ARMY EQUIPMENT MODERNIZATION STRATEGY
Agenda

- USASOC Organizational Structure
- Equipment Roadmaps
- Selected Capabilities for Discussion
  - Visual Augmentation Capabilities
  - Mobility Capabilities
  - Lethality Capabilities
- Combat Assault Rifle
  - Today, Tomorrow, and Beyond
USASOC consists of several Component Subordinate Commands (CSCs) and Component Subordinate Units (CSUs). The CSC/CSUs leverage their primarily CONUS-based structure to provide seamless and persistent special operations support to Joint Force Commanders worldwide.
USASOC G8 ORGANIZATIONAL CHART

Deputy G-8

DCS, G-8

Force Structure Division
Programming Division
Combat Development Division
Test and Evaluation Division

G-8 SGM

1 CTTSO LIASON
USASOC – Combat Developments Organizational Chart

**CHIEF COMBAT DEVELOPMENTS**
- MCoE
  - LNO
- CTTSO
  - LIAISON
- Financial Mgmt
  - Admin Asst

**Program Office Support**
- Mr. Vangel

**AVN**
- Commodity Manager (GS-13)
- Requirements Officer (GS-12)
- Program Office Support
  - Acquisition Officer

**C4**
- Commodity Manager (GS-13)
- Requirements Officer (GS-12)
- SF Operations Officer (MAJ)
- Program Office Support
  - Acquisition Officer

**ISS**
- Commodity Manager (GS-13)
- Requirements Officer (GS-12)
- SF Operations Officer (MAJ)
- MISO Officer (MAJ)
- Program Office Support
  - Acquisition Officer

**MISO**
- Commodity Manager (GS-13)
- Requirements Officer (GS-12)
- MISO Officer (MAJ)
- Program Office Support
  - Acquisition Officer

**Mobility**
- Commodity Manager (GS-13)
- Requirements Officer (GS-12)
- Requirements Officer (GS-12)
- Program Office Support
  - Acquisition Officer

**Target Engagement**
- Commodity Manager (GS-13)
- Requirements Officer (GS-12)
- Requirements Officer (GS-12)
- Program Office Support
  - Acquisition Officer

**Soldier Systems**
- Commodity Manager (GS-13)
- Requirements Officer (GS-12)
- Requirements Officer (GS-12)
- Program Office Support
  - Acquisition Officer

**Special Programs**
- Chief Spec Programs
  - Chief TED
    - Deputy (GS-13)
    - ORSA x 3
    - Civilian T&E x 3 (GS-12/13)
    - T&E Officer

**Legend**
- Matrix Support
- Acquisitions Support Cell
## USASOC – VASWA Road Map

### Increment II Current to Mid Term

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<thead>
<tr>
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<tr>
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<td>SU-230A/PVS (1 or 4X)</td>
<td>SU-230B/PVS (1.5 or 6X)</td>
<td>Miniature Aiming Systems – Optics (MAS-O) CPD: 1-6/8x Variable Power Scope</td>
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<td>Day Optics</td>
<td>SU-231A/PEQ (1X)</td>
<td>PSR Day Scope 5-25x</td>
<td>1st SFC Interim Solution M68</td>
<td>75th Ranger Regiment Interim Solution Aimpoint Micro T2</td>
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**Miniature Aiming Systems – Optics (MAS-O) CPD:**
- **1st SFC Interim Solution M68**
- **SU-230B/PVS (1.5 or 6X)**
- **75th Ranger Regiment Interim Solution Aimpoint Micro T2**
- **PSR Day Scope 5-25x**
- **5-25x**
# USASOC – VASWA Road Map

## Increment II Current to Mid Term

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<td>Lasers</td>
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## Far Term

<table>
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<tr>
<th>Year</th>
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<th>2020</th>
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<tbody>
<tr>
<td>Miniature Aiming Systems - Laser (MAS-L) CPD: Precision Aiming Laser</td>
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**Miniature Aiming Systems (MAS) CDD**

- 3X 1mm diameter holes expose the internally mounted vent membrane to the environment.
- Bluetooth module and sensors.
- Due to the size increase from the Bluetooth integration, the product will have some interference with iron sight visibility.

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**UNCLASSIFIED**

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**USASOC**
# USASOC Weapon Roadmap

## Increment II Current to Mid Term

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<tr>
<td>MK13</td>
<td>M3 MAAWS</td>
<td>ASR 7.62MM, .300NM, .338NM</td>
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<tr>
<td>M107 .50 CAL</td>
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<td><strong>Anti-Armor</strong></td>
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<td>M3 MAAWS</td>
<td>MAAWS Munitions</td>
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<td>M9</td>
<td>P320</td>
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<td><strong>Carbine</strong></td>
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<td>Upper Receiver Group (URG) 10.3” or 14.5”</td>
<td>Integrated Receiver Group (IRG)</td>
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## Far Term

- ASR .338 Anti-Material Capability
- M3E1
- Low Vis. Concealable Glock
**Special Operations Binocular Night Vision Device (BNVD)**

**Description**
- 70-deg x 55-deg 1.5X more viewing area than 40-deg PVS31A NVG’s
- Tube Specifications
  - Resolution 82 line pairs/mm
  - Signal-to-Noise Ratio (SNR) 33.0
- FOM of 2706 is higher than GPNVG & PVS-31

**Notes**
- CTTSO funded; SOCOM, USASOC, Army Night Vision Labs collaborative effort
- Testing expected this year
- Compatible to PVS31 and accessories
- 70° lateral provides situational awareness
- 55° vertical provides better agility

POC: Fran Vangel vangelf@soc.mil

UNCLASSIFIED
The Handgun Reflex Sight (HRS) is designed for rapid day and night pistol target engagements.

The HRS incorporates an illuminated dot or shape imposed on a Wide Field of View (WFOV) lens to increase the speed of target acquisition when maneuvering in confined spaces, or in extremis if the primary weapon malfunctions.

### Rules of Allocation (ROA)

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- **Military User Assessment complete (October 16)**
- Release of solicitation (Late May 2017 (T))
- Proposals Due (June 17)
- Award (September 2017)
The Close Quarters Sight (CQS) is designed for rapid assault rifle engagements in a CQB environment.

The CQS incorporates an illuminated shape and/or dot imposed on a Wide Field of View (WFOV) lens to increase the speed of target acquisition and increase probability of hit (P(h)) between 0-300m day and night.

The objective of the CQS is to eliminate the parallax effect and thermal drift for optimal speed and accuracy.

<table>
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- Military User Assessment complete (March 16)
- Release of solicitation (August 2017)
- Proposals Due (November 17)
- Award (September 2018)
The Squad-Variable Power Scope (S-VPS) is designed for assault rifle, light caliber lightweight machine guns and designated marksman rifles.

The Squad Variable Power Scope is a magnified optic designed to improve target acquisition and increase probability of hit (P(h)) between 0-600m day and night.

The Squad Variable Power Scope includes a non-caliber specific reticle, is variable power, and incorporates an illuminated aim-point.

**Rules of Allocation (ROA)**

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- **Military User Assessment complete (Nov 16)**
- Release of solicitation (Jun 2017 (T))
- Proposals Due (June 17)
- Award (February 2018)
The Precision – Variable Power Scope (P-VPS) is designed for sniper weapons including Anti-Material Rifles and the future Advanced Sniper Rifle (ASR).

The P-VPS is a magnified optic designed to improve target acquisition and increase Probability of hit (P(h)) between 50-1500m.

The P-VPS includes a non-caliber specific grid reticle, is variable power and incorporates a micro data display to display range finding, ballistics, offsets, and other engagement data within the optics field of view.

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- **Military User Assessment scheduled (August 17)**
  - Solicitation strategy pending
  - Proposals Due (July 17)
  - Award (January 2018)
Squad Aiming Laser (SAL)

The Squad Aiming Laser (SAL) provides a modernized, reduced size and weight, replacement for the SOPMOD-MDNS-Advanced Target Pointer, Illuminator and Aiming Laser (ATPIAL).

The system is designed for compact rifles and assault rifles engagements between 0-600m.

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Rules of Allocation (ROA)

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- Release of solicitation (August 2017)
- Proposals Due (December 17)
- Award (September 2018)
The Precision Aiming Laser (PAL) combines the range finder with a ballistics and environmental sensor/processor for the Advanced Sniper Rifle for 50-1500 meter system accuracy.

The ballistics and environmental processing function will be embedded within the laser device to combine range data, the weapon’s ballistics characteristics, and environmental conditions.

The system will be compatible with clip-on night sensors, micro data displays, handheld ballistic/environmental processors, and other visual augmentation and target engagement systems.

**Rules of Allocation (ROA)**

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- **Military User Assessment scheduled (August 17)**
  - Solicitation strategy pending
  - Proposals Due (July 17)
  - Award (January 2018)
### Description

- Small, light weight, (VCW ~7,000lbs)
- Internally Air Transportable by MH47
  - Insertion/forcible entry w/C-130 or H-47 vertical lift
  - Fast roll on / roll off capability (fully loaded w/weapon mounted)
- Carries 3-5 comfortably/ 7 max for short durations
- Modular armor package for small arms protection (tailorable to the threat expected)

### Notes

- Weight / Agility / Speed / Protection
- Traded protection
- Increased Speed, Mobility & Transportability
- Tailor-made Command & Control Suite
- Up-armor Capability for Increased Protection
- Multiple Weapon Configurations
- Payload Adaptability
- Currently being fielded to SOF
- Army will field variants to ABN IBCT’s
.338 Light Weight Medium Machine Gun (LWMMG)

- CTTSO funded 4 weapon systems and 16K rounds
- 75th Ranger Regiment and MARSOC user evaluation complete

- USASOC sponsored Capability Production Document (CPD) planned for 1QTR FY18
- Polymer ammunition and extended barrel life initiatives are integral to this effort

**Capability**
Reduced weight crew served weapon capable of engaging at distances of greater than 1100 meters.

Small unit ground forces need portability of medium/heavy machine gun for mounted and dismounted operations.

Bridge gap between M240 and M2A1 capability.

.338 Norma: greater lethality and double the range of the 7.62 NATO round.

3 lbs. lighter than the M240B0.
Family of Low Visibility and Concealable Pistols (FLVCP)

Description
FLVCP provides a low vis (unremarkable) and concealed (hidden) ability to maintain a common self-defense capability while dressed in standard U.S. military uniform or indigenous clothing. The FLVCP will be utilized on missions where the overt display of a weapon is undesirable, but the potential threat to U.S. SOF is still present.

Notes
- Moved from request to fielded system in 8 months
- Scope/sight request currently in staffing
- Separate requirement from the Army MHS
  - USASOC Expects to field MHS FY19+

Basis of Issue

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Advanced Sniper Rifle (ASR)

The ASR is a bolt action, multi-caliber sniper weapon system providing reliable and accurate extended range sniper capabilities. The multiple caliber design utilizes one platform, to support precision engagement out to 1500 meters.

ASR will include 7.62mm, 300 Norma Magnum and 338 Norma Magnum caliber capability.

USASOC sponsored program in coordination with US Army PM Soldier Weapons

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- Military User Assessment complete (Nov 16)
- Performance Specifications complete (Dec 16)
- Ammunition specifications complete (May 17)
- Draft Request for Proposal (Aug 17)
- Official Request for Proposal (Jan 18)
- Phase 1/2/3 testing (Mar 18 – Dec 19)
- Fielding (4th QTR FY19)
- US Army/USMC transition to P2 (FY20)
Current USASOC Upper Receiver Group (URG)

- 14.5” free float barrel
- Mid-length gas system
- Low profile gas block
- M-LOK rail system
- Lower bolt carrier velocity
- Improved dwell time
- Optimized system for M855A1
- Neutral timed WARCOMP muzzle device

Crane currently conducting Mid-Length vs Carbine Length testing to gather data
Precision Intermediate Caliber

- Joint USASOC-US Army PM SW effort to identify, build and certify cartridge
- Doppler radar performance testing (May 17)
- Limited User Assessment (Oct 17)
- Possible upgrade to M110 or CSASS

- Doubles hit probability at 1000 meters
- 33% increase in effective range
- 30% increase in energy on target
- 40% decrease in wind effect
- Decreased recoil
Next Gen Intermediate Combat Assault Rifle

- Improved weapons, optics, and ammunition increase the Assault Rifle capability from ~200 to ~600M when employed in relevant combat conditions.

- What implications does this have?

- ARE WE READY?
DOTMLPF-P Challenges for the Future

- **Doctrine** – How will we fight in the future?
- **Organization** – 600M capability for all? Structure Changes?
- **Training** – Changes to BRM. What about ballistic calculators, LRF, improved sighting systems?
- **Materiel** – Solutions ready now, subject to testing. How do we integrate components from across industry to optimize the system?
- **Leadership & Education** – Unit employment?
- **Personnel** – What attributes are needed for future marksman?
- **Facilities** – Ranges support realistic 600 meter live training?
- **Policy** – What policies need to change to work with allies, resource our forces, and train/fight effectively?
Questions