Lt Col Josh Bohnart
Program Manager
SOF WARRIOR
PM – AMMO & WEAPONS
PM – AMMO & WEAPONS MISSION

Develop, procure and sustain Weapon, Visual Augmentation, Fire Support capabilities, and Munitions for specific missions when Service solutions do not meet SOF requirements.

SOF Unique Attributes/Focus:

• **VAS**: EXPAND LIMITED VISIBILITY ADVANTAGES over Sophisticated Threats

• **Fire Support Systems**: REDUCE THE WEIGHT of Pointers, Markers, Target Location Devices. Develop more PRECISE AND ACCURATE munitions systems

• **Weapons**: Improve suppressors (flash, sound & glint) for REDUCED SIGNATURE to obtain/maintain LOW VISIBILITY

• **Ammunition**: COVERTNESS through Flash-less powder, subsonic munitions; accurate across all temperatures, enhanced lethality
ACQUISITION PHILOSOPHY

• Maximize utilization of Service Common material solution
  – Fully integrated in the requirements/development process via multiple joint venues/IPTs

• Build SOF Specific material solution
  – Competitive Procurements via 5 Year IDIQ Contracts
  – Focused on SOF-specific missions
  – Transition from SOF to regular forces

• Modified Commercial Off the Shelf
AMMO & WEAPONS PORTFOLIO

- **Visual Augmentation Systems**
  - **Helmet Mounted:** Image Intensified (I²) Binocular, Clip-On Thermal Imager, Fusion
  - **Mounted:** Clip-On Night Vision Devices, Direct Optic Magnified Sights, Red Dot Aiming Devices
  - **Handheld:** Thermal Imagers, Laser Markers

- **Weapons and Accessories**
  - Combat Assault Rifles
  - Machine Guns
  - Sniper Rifles
  - Laser Pointers, Illuminators, and Suppressors

- **Ammunition, Demolitions and Breaching**
  - Small Caliber Ammunition
  - Shoulder Fired Systems
  - Aviation Ammunition
  - Demolitions and Pyrotechnics
A Globally networked force of SOF, interagency, allies and partners able to rapidly or persistently address Regional contingencies and threats to stability

**USSOCOM Strategy 2020**

**Smaller Lightweight Integrated Systems**

**Energy Efficient Multi-spectral Sensors**

**Mission Tailorable**

**Reliable & Sustainable in Austere Environments**

**Integrated / Interoperable system**

**Furthering Visual Augmentation Capabilities:**
- Innovative solutions with increased reliability and bandwidth
- Increased resolution and field of vision for rapid threat detection and identification
- Information from multiple sources integrated on helmet mounted displays
- Augmented Reality for navigation and improved situation awareness
- Color and enhancements to increase range and capability to see in all lighting conditions, fog and obscurants
- Big Data integration to collect, process, utilize facial recognition and biometrics
- Long duration run-time
**Goal:** Enable the Operator to exploit information gained throughout the sensor spectrum.

- **Reduce SWAP-C**
- **Energy Efficient Multi-spectral Sensors**
- **Undetected Day/Night Use**
- **See in all lighting conditions, fog and obscurants**
- **Integrated / Interoperable system**

**Furthering Visual Augmentation Capabilities**
- Integrated processing data control
- Combat Ready Display
- Situational Awareness
- Power Generation
- Heads Up Display
- Increased resolution and field of vision for rapid threat detection and identification
- Information from multiple sources integrated on helmet mounted displays
- Augmented Reality for navigation and improved situation awareness
VISUAL AUGMENTATION ROADMAP

**Head-Mounted**
- AN/PVS-15A
- Follow-On BNVDs
- Clip On Thermal Imager (COTI)
- Follow-On COTI
- COSI RIF

**Hand-Held**
- AVMS/24
- HHI-MLR

**Capability Development**
- Adaptive multi-spectral night vision capability
- Ability to import/export data for enhanced SA (wireless)
- Day HUD with import data capability
- Ability to jam enemy analog image intensification devices
- Ability to provide facial recognition at max range (1500-2000m)
- Seamless transition to weapon sight while wearing NODs
- True Color Vision
- Universal Wireless Power
- Increased POV w/o loss of resolution

**Roadmap Timeline**
- FY13
- FY14
- FY15
- FY16
- FY17
- FY18
- FY19
- FY20

**Key Events**
- Key Event
- Divestment (Div)
- Decision Point
- New Start
- Alternate Systems
- Big Service Systems
- Development Effort

**SOF WARRIOR**
JOINT FIRES

Goal: Location and Targeting with information distribution with minimal effort by the SOF operator

- Laser Marking and Designation Interchangeability
- Lower Power Lasers and Extended Viewing Range
- Reduction of Size/Weight/Power and Ergonomics
- Information Sharing
- Integrated / Interoperable systems
- Furthering Visual Augmentation Capabilities
  - Multifunctional Devices
  - Situational Awareness
  - Stabilization
  - Multiple Laser Spot Tracking

Separate Distinct Systems

Integrated Systems
FIRES CAPABILITY ROADMAP

FIRES

SPOTR

HLM II

Designators

PEQ-1C

GEO Location

STLD

PLRF

JTAC SIMS

Capability Development
- Multifunctional Devices (SWaP)
- Situational Awareness
- Stabilization
- Accuracy

Terrestrial/Celestial/All Weather/All Day

FY13
FY14
FY15
FY16
FY17
FY18
FY19
FY20

Sustainment
RDTE
Procurement
Sustainment
RDTE
Procurement
Sustainment
RDTE
SOF MODS

Key Event
Divestment (Div)
Decision Point
New Start
Alternate Systems
Big Service Systems
Development Effort

SOF WARRIOR

UNCLASSIFIED
WEAPON-MOUNTED VAS

Primary Goal: Increased accuracy, marking, detection, identification, and engagement ranges
Secondary Goal: Integrated, power sharing capability across multiple spectrums

Reduce SWAP-C

Energy Efficient Multi-spectral Sensors

Undetected Day/Night Use
See in all lighting conditions, fog and obscurants

Integrated / Interoperable system

Furthering Visual Augmentation Capabilities
- Integrated processing data control
- Wireless Data Sharing
- Power Sharing
- Increased resolution and field of vision for rapid threat detection and identification
- Incorporate facial recognition and biometrics
- Selectable wavelength to facilitate identification of friendly forces and target marking

Weapon Mounted distinct systems
WEAPONS ROADMAP

• Improve Suppressor Technologies Across FYDP
  - Small Arms Signature Reduction Program –
    Noise/Flash/Extended Service Life – Development FY15-16
    Production FY16-20

• New Procurement Opportunities
  - Clandestine Breakdown Sniper Rifle
  - Personal Defensive Weapon

• Sustain Fielded Weapons Across FYDP
  - Assault – Sustain CAR MK17, SOPMOD M4A1
  - Sniper – Field MK21/PSR, Sustain – MK13, MK15, MK20
  - Crew Serve – Sustain MK44, MK46, MK48, MK47
MUNITIONS ROADMAP

• Improve / Sustain / Transition Fielded Munitions
  - Lightweight Ammunition (5.56, 7.62, 300WM, 50 cal)
  - Improved Accuracy/Increase Lethality (300WM, .50 cal)
  - 40mm Door Breaching Round / Airburst Round
  - Enhanced/Multi-bang Flash Bang Grenades
QUESTIONS?