USSOCOM
Ground Mobility Acquisition Overview

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Family of Special Operations Vehicles (FOSOV)
SOF AT&L / PEO-SOF Warrior

Acquisition at the Speed of War!
Agenda

- Active FOSOV Programs & Lifecycle Phase
- Program Overviews
- Technology Insertion
Vehicle Lifecycle Overview

Vehicles in Concept
- V-22 Internally Transportable
- Purpose Built Non-Standard Commercial Vehicle
- Next-Gen Armored Ground Mobility System (AGMS)

Vehicles In Production
- Ground Mobility Vehicle (GMV) 1.1
- Non-Standard Commercial Vehicle
- Light Tactical All Terrain Vehicle - Diesel

Vehicles in Sustainment
- GMV 1.0
- MRAP-ATV (M-ATV)
- MRAP - RG33 A1
- MRAP - RG33 AUV
**Light Tactical All Terrain Vehicle (LTATV)**

- The LTATV is a SOF modified commercial off the shelf (COTS) lightweight vehicle that is internally air transportable via V-22, H-53 and H-47 aircraft. It consists of two and four seat variants with the ability to change configuration based upon mission and/or threat. It’s intended to perform a variety of missions to include offset infiltration, reconnaissance and medical evacuation.
- Areas of Interest:
  - Hybrid/Electric
  - Autonomous Capabilities
  - Increased Payload
  - Lifecycle Improvement
  - Modular Kit Capabilities (weapons, tracks, litters, etc.)

### ACQUISITION STRATEGY
- Non Developmental Item (NDI)
- Follow-On Contract: Full & Open Competition

### PERIOD OF PERFORMANCE
- Sustainment ongoing
- Follow-On Contract: FY20 – TBD

### MILESTONES
- Pure Fleet Diesel Variant: 4QFY18 (achieved in July 2018)

### POINT OF CONTACT
- TILO (tilo@socom.mil)

### FUNDING
- ~$6.5M/year

### CURRENT CONTRACT/OEM
- Polaris Defense (Medina, MN)
- 5 Year IDIQ: July 2015 – July 2020
Non Standard Commercial Vehicle (NSCV)

- The current NSCV is based on commercial vehicle platforms that are enhanced with mission-specific modifications to increase protection, mobility performance, and durability.
- Areas of Interest:
  - Lightweight Armor Materials
  - Lightweight Vehicle Components/Mods
  - C4ISR Integration Cost Reductions
  - Suspension Technology
  - Lifecycle Improvement

ACQUISITION STRATEGY
- NSCV2: Full & Open Competition
- P-Built: Competitive OTA for Prototype (NAMC Consortium), w/ Follow-on Production

PERIOD OF PERFORMANCE
- Sustainment Ongoing
- Purpose Built NSCV: FY20 Award

MILESTONES
- NSCV1 Production End: July 18
- NSCV2 IOT&E: March 18
- NSCV2 PQT Completion: 3QFY19

POINT OF CONTACT
- TILO (tilo@socom.mil)

FUNDING
- ~$36M/year (average)

CURRENT CONTRACT/OEM
- Battelle Memorial Institute (Columbus, OH)
- 7 Year IDIQ: July 2016 – July 2023
Current NSCV Platforms

- A Family of Vehicles that provides SOF with low-visibility armored and unarmored vehicles to conduct operations in politically or operationally constrained permissive, semi-permissive, or in denied areas.

- Based on commercial vehicle platforms. Upgraded suspension, brakes, skid plates, drive train, wheels and tires. added blackout/IR, frame reinforcements.

- NSCV2 Program of Record: July 2016 – July 2023

- NSCV2 Program adds vehicle types:
  - Pickup Trucks: Toyota Hilux and Land Cruiser 79, Ford Ranger
  - Sport-Utility Vehicles: Toyota Land Cruiser 76, 78, 200

- Configurations and options:
  - Left-hand or Right-hand drive
  - Diesel or Gasoline engine
  - Automatic or Manual transmission
  - Single or Dual Alternator
  - Standard or Lightweight Armor, or unarmored
  - Standard or Reduced Physical Signature
  - Standard or Reduced Signature C4ISR, or no C4ISR
  - Weapons Mount (pickups only)
  - Low Velocity Air Drop (LVAD) (pickups only)

- SOCOM’s NSCVs provide protection, mobility, and communications in the toughest on and off road environments.

Hilux Pickup
- 4 crew
- Payload 2,200 lbs
- CH-47 Internal Air Transport
- New generation of proven NSCV Hilux

Land Cruiser 76 SUV
- 4 crew
- Payload 2,000 lbs
- New generation of proven SOF LC76

Land Cruiser 79 Pickup
- 4 crew
- Payload 2,200 lbs
- CH-47 Internal Air Transport
- Optional automatic transmission

Land Cruiser 200 SUV
- 4 crew
- Payload 2,000 lbs
- New generation of proven NSCV LC200
Purpose Built
Non Standard Commercial Vehicle
(PB-NSCV)

Current NSCV – Modifications to OEM Commercial Vehicles
- 6 Variants with different engines, transmissions, axles, suspension, etc.
- Reliant on OEM vehicle – model year changes
- 150% overloaded based on OEM vehicle
- 3 year OCONUS lifecycle

Purpose Built Concept
- Joint Development Effort to provide a Common Base Platform for SOF
- Common Chassis/Drivetrain not reliant on OEM
- Interchangeable skins to mimic target vehicles
- 10-15 year lifecycle with 1-2 Reset(s)
- Built from the ground up (no OEM vehicle reliance) for durability, payload, and rugged terrain
- Transition away from continual investment costs – utilize O&M funds for P-Built Reset

* Chassis does not represent material solution
The GMV 1.1 is a highly mobile CH-47 internally transportable Special Operations combat vehicle with the operational flexibility to support a wide range of lethal and non-lethal Special Operations missions and core activities.

Areas of Interest:
- Lightweight Armor Materials
- Hybrid/Electric Powertrain
- Vehicle Weight Reduction
- Terrain Specific Tire Alternatives
- C4ISR Integration Cost Reductions

**ACQUISITION STRATEGY**
- Full and Open Competition
- Single Vendor Award
- Produce & Evaluate Test Vehicles
- Full-Rate Production Decision

**PERIOD OF PERFORMANCE**
- PoP: Aug 13 - Aug 20
- 5 Years Production

**FUNDING**
- FY20 is last year of investment funding
- $16M sustainment funding through FYDP

**MILESTONES**
- IOT&E: November 2015
- First Unit Equipped: April 2016
- Full Rate Production Decision: March 17
- Initial Operational Capability: September 2020

**CURRENT CONTRACT/OEM**
- General Dynamics Ordnance and Tactical Systems (St. Petersburg, FL)
- 7 Year IDIQ: August 2013 – August 2020

**POINT OF CONTACT**
- TILO (tilo@socom.mil)
The Mine Resistant Ambush Protected (MRAP) family of vehicles currently consists primarily of the MRAP All Terrain Vehicle (M-ATV), and RG-33-A1. Vehicles are modified to meet SOF unique requirements.

Areas of Interest:
- Active Reset Operations
- Obsolescence Management
- Sustainment Cost Reductions
- C4ISR Integration Cost Reductions

ACQUISITION STRATEGY
- JPO MRAP Contracts

PERIOD OF PERFORMANCE
- Sustainment ongoing
- Reset kicks off in FY19

MILESTONES
- Post Milestone C
- Sustainment/Disposal Phase

POINT OF CONTACT
- TILO (tilo@socom.mil)

FUNDING
- ~$85M/year in O&M

CURRENT CONTRACT/OEM
- No Active OEM Contracts
- FSR Support: ManTech / Lockheed Martin
# Ground Mobility Vehicle 1.0 (GMV 1.0)

- **ACQUISITION STRATEGY**
  - Modified Service Common (MFP-2)

- **PERIOD OF PERFORMANCE**
  - Sustainment / Divestiture
  - Reset as necessary
  - IROAN as necessary

- **MILESTONES**
  - Production ended in FY06
  - Vehicle Reset has been continuous since FY09

- **POINT OF CONTACT**
  - TILO (tilo@socom.mil)

- **FUNDING**
  - $2M for FY 19 reset
  - Annual Prioritization Process for Reset
  - Continue sustainment through OCO

- **CURRENT CONTRACT/OEM**
  - No Active Contracts
  - Reset: Letterkenney Army Depot (LEAD)

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- The Ground Mobility Vehicle 1.0 (GMV 1.0) is a medium class High Mobility Multipurpose Wheeled Vehicle (HMMWV) with Special Operations - Peculiar (SO-P) modifications. Several variants have supported Special Operations Operators reliably for over 12 years in contingency and combat operations.
- **Areas of Interest:**
  - Active Reset Operations
  - Lightweight Armor Materials
  - Suspension & Payload Improvements
Joint Light Tactical Vehicle (JLTV)

- JPO JLTV managed out of TACOM
- To be fielded to SOF Units by Services

Being Evaluated for SOF Adoption – limited SOF modifications

M1279 Utility (UTL)
M1278 Heavy Guns Carrier (HGC)

Heavy Guns Carrier (HGC)
- M1278: 2320-01-652-5250
  - P/N: 87T0207
  - ZLIN: Z05304
- M1278A1: 2320-01-653-6495
  - P/N: 87T0212
  - ZLIN: Z05737
Next Generation Armored Ground Mobility System (AGMS)

**ACQUISITION STRATEGY**
- TBD (Market Research)

**PERIOD OF PERFORMANCE**
- FY22/23 kickoff (estimated)

**MILESTONES**
- Requirements Generation – FY19/20
- Market Research – FY19/20

**POINT OF CONTACT**
- TILO (tilo@socom.mil)

**FUNDING**
- TBD

**CURRENT CONTRACT/OEM**
- No Active Contracts

- The AGMS is a rapidly-deployable armored personnel carrier, providing heavy weapons capability, ballistic protection, and increased transportability options for SOF.
- Key Requirements (anticipated):
  - Blast & Ballistic Protection
  - Seating for 9-10 passengers
  - C-130 Transportable
  - 4,500+lb Payload Capacity
  - Increased Situational Awareness
  - Heavy Weapons Capability (RWS)

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PM FOSOV Technology Insertion

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<th>Vehicles in Concept</th>
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<td>• NSCV</td>
<td>• LTATV (Lifecycle Replacement every 3-4 yrs)</td>
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- Lightweight Armor for Ground Mobility Platforms
  - Current armor solutions are heavy, limit available payload options and decrease vehicle durability.
  - Lightweight and cost effective technologies that can replace current armor solutions.
- Lightweight Vehicle Components/Mods
- Advanced Tires for all platforms
- Low SWAP / High Output Alternators
- Hybrid/Electric Vehicle Capabilities
- Alternative Fuel Sources
- Autonomous / Semi-Autonomous Vehicle Capabilities
- Semi-Active Suspension Capabilities
- Advanced Situational Awareness (M-ATV/AGMS) – Battlefield Awareness
- Telepresence for remote vehicle operation and/or Situational Awareness (SA)

POC Contact: TILO, 813-826-9482, TILO@socom.mil
Questions?