



SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

Campaigning with Partners for Integrated Deterrence

LtCol Alfredo Romero, Program Manager
Family of Special Operations Vehicles



VEHICLE LIFECYCLE OVERVIEW (PM FOSOV)

Vehicles in Concept



Joint Light Tactical Vehicle (JLTV)
SOF Mods



Purpose Built
Non-Standard Commercial Vehicle



Hybrid-Electric Ground Mobility
Vehicle 1.1

Vehicles in Production



Non-Standard Commercial Vehicle



Light Tactical All Terrain
Vehicle- Diesel

Vehicles in Sustainment



GMV 1.0



MRAP-ATV (M-ATV)

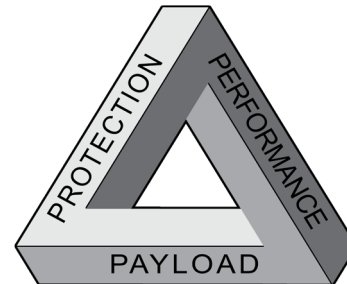
Vehicles in Sustainment



MRAP - RG33 A1



Ground Mobility Vehicle 1.1
(GMV 1.1)



KEY INITIATIVES (PM FOSOV)

- 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.
- Areas of Interest:
 - Autonomous Capabilities
 - Signature Management
 - Communications Suite



ACQUISITION STRATEGY

- Non-Developmental Item (NDI)
- Life Cycle Replacement Effort
- Performance Testing Hybrid Diesel/ Electric Variants in FY 23
- Autonomous in FY 23

POINT OF CONTACT

- LtCol Alfredo Romero at alfredo.t.romero.mil@socom.mil

PERIOD OF PERFORMANCE

- Polaris Contract : FY20 – FY27

FUNDING

- O&M

MILESTONES

- Performance Testing – Completed Mar 2022
- Air Drop – Starting Q3 FY22
- Autonomous Prototypes – Sept 2022
- Initial Fielding Life Cycle Replacements – Q3 FY22

CURRENT CONTRACT/OEM

- Polaris Defense (Medina, MN)
- 7 Year IDIQ: May 2020 – May 2027

NON-STANDARD COMMERCIAL VEH (NSCV) (PM FOSOV)

- 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
 - Lifecycle Improvement



ACQUISITION STRATEGY

- NSCV2: Full & Open Competition
- P-Built: Competitive OTA for Prototype (NAMC Consortium). PB may supplement NSCV fleet in the future
- NSCV3: Acq Strategy undetermined currently

PERIOD OF PERFORMANCE

- Active Production
- Sustainment Ongoing
- Reset of NSCV2 vehicles starting this FY to extend lifecycle

MILESTONES

- NSCV2 PQT completion: Q1 FY20
- PB NSCV prototype testing began: Q3 FY21
- PB NSCV prototype testing completion: Q2 FY22

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FUNDING

- Procurement
- O&M

CURRENT CONTRACT/OEM

- Battelle Memorial Institute (Columbus, OH)
- 7 Year IDIQ: July 2016 – Nov 2023

GROUND MOBILITY VEHICLE 1.0 (GMV 1.0) (PM FOSOV)

- 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 13 years in contingency and combat operations.
- Areas of Interest:
 - None currently



ACQUISITION STRATEGY

- Modified Service Common (MFP-2)

PERIOD OF PERFORMANCE

- Sustainment / Divestiture

MILESTONES

- Production ended in FY06
- Vehicle Reset has been discontinued
- Vehicle in Divestiture

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FUNDING

- O&M

CURRENT CONTRACT/OEM

- No Active OEM Contracts

GROUND MOBILITY VEHICLE 1.1 (GMV 1.1) (PM FOSOV)

- 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:
 - Armor Vendors/Opaque & TA (Sustainment)
 - Signature Management
 - Increased Payload Storage Capacity
 - Vehicle Weight Reduction



ACQUISITION STRATEGY

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

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PERIOD OF PERFORMANCE

- Sustainment ongoing
- IROAN Pilot (77 Vehicles) ongoing

FUNDING

- Procurement
- O&M

MILESTONES

- IOT&E: November 2015
- First Unit Equipped: March 2016
- Full Rate Production Decision: March 2017
- Initial Operational Capability: December 2020

CURRENT CONTRACT/OEM

- No Active OEM Production Contracts
- FSR Support: Lockheed Martin / Flyer Defense / Mantech

MINE RESISTANT AMBUSH PROTECTED VEHICLE (MRAP/M-ATV) (PM FOSOV)

- 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
 - C5ISR Integration Cost Reductions



ACQUISITION STRATEGY

- Original Production (JPO MRAP Contracts)

PERIOD OF PERFORMANCE

- Sustainment ongoing
- Reset kicked off in FY19 and continues at Red River Army Depot and Marine Corps Logistics Base Barstow

MILESTONES

- In Sustainment

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FUNDING

- O&M

CURRENT CONTRACT/OEM

- No Active OEM Production Contracts
- Integrated Strut Dampener/Air Transport Footprint- OEM
- FSR Support: Mantech / Lockheed Martin

JOINT LIGHT TACTICAL VEHICLE (JLTV) (PM FOSOV)

- Joint Program Office (JPO) – USA/USMC
- To be fielded to SOF Units by Services
- The JLTV's intent is to restore light tactical mobility to combat arms, combat support and combat service support/sustainment of forces by providing protection (scalable armor); transportability (rotary/fixed wing, expeditionary sealift); mobility (off road, urban areas, all weather); sustainment (reliability, maintainability, onboard and exportable power) and Networking (integrated C5)



Targeting Limited SOF Modifications (C5I/ECMS)

ACQUISITION STRATEGY

- Modified Service Common (P-2)
- SOF Mod Requirements Development ongoing

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PERIOD OF PERFORMANCE

- FY20 & beyond

FUNDING

- Procurement
- RDT&E

MILESTONES

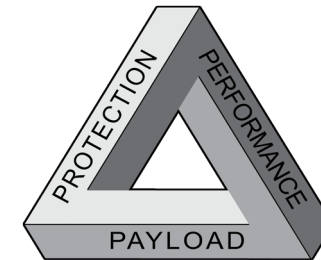
- SOF Limited User Evaluation – January 20
- SOF C5I Integration kit Design/Testing – FY23
- C5/ECM VIK Production – FY23

CURRENT CONTRACT/OEM

- Oshkosh Corporation (JPO)
- No Active SOCOM Contracts

PM FOSOV TECHNOLOGY INSERTION RECAP OF INDUSTRY OPPORTUNITIES

- **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**
- **SIGMAN (Thermal/Acoustic) for Mobile Applications**
- **Hybrid/Electric Vehicle Capabilities**
 - Hybrid/Electric Components (Motors, Batteries)
- **Autonomous / Semi-Autonomous Vehicle Capabilities**
- **Advanced Situational Awareness (MRAP) – Battlefield Awareness**
- **Telepresence for remote vehicle operation and/or Situational Awareness (SA)**
- **Augmented Reality Maintenance Capabilities**



The Iron Triangle

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FUNDING

RDT&E

CURRENT CONTRACT/OEM