

# Special Operations Forces



## Industry Conference

**LtCol Renee Holmes**

Program Manager

Family of Special Operations Vehicles

Opportunities



# SOF WARRIOR



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Develop, procure and sustain affordable wheeled mobility capabilities for specific missions when Service solutions do not meet SOF requirements



3,000 SOF Modified and SOF Specific vehicles

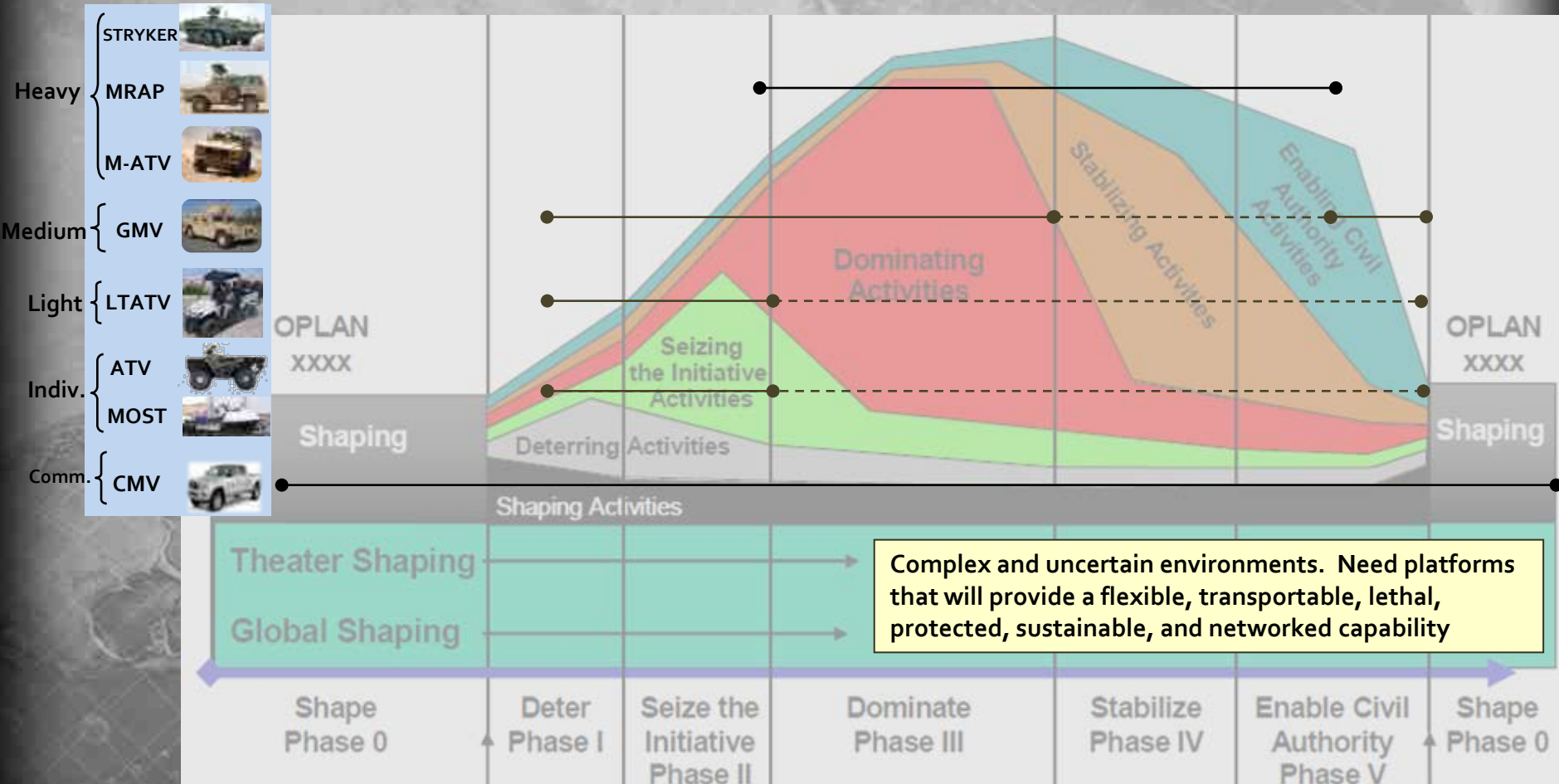


# SOF WARRIOR



## Scope of the Tactical Mobility Requirement

- Primary Platform
- Supporting Platform





# SOF WARRIOR



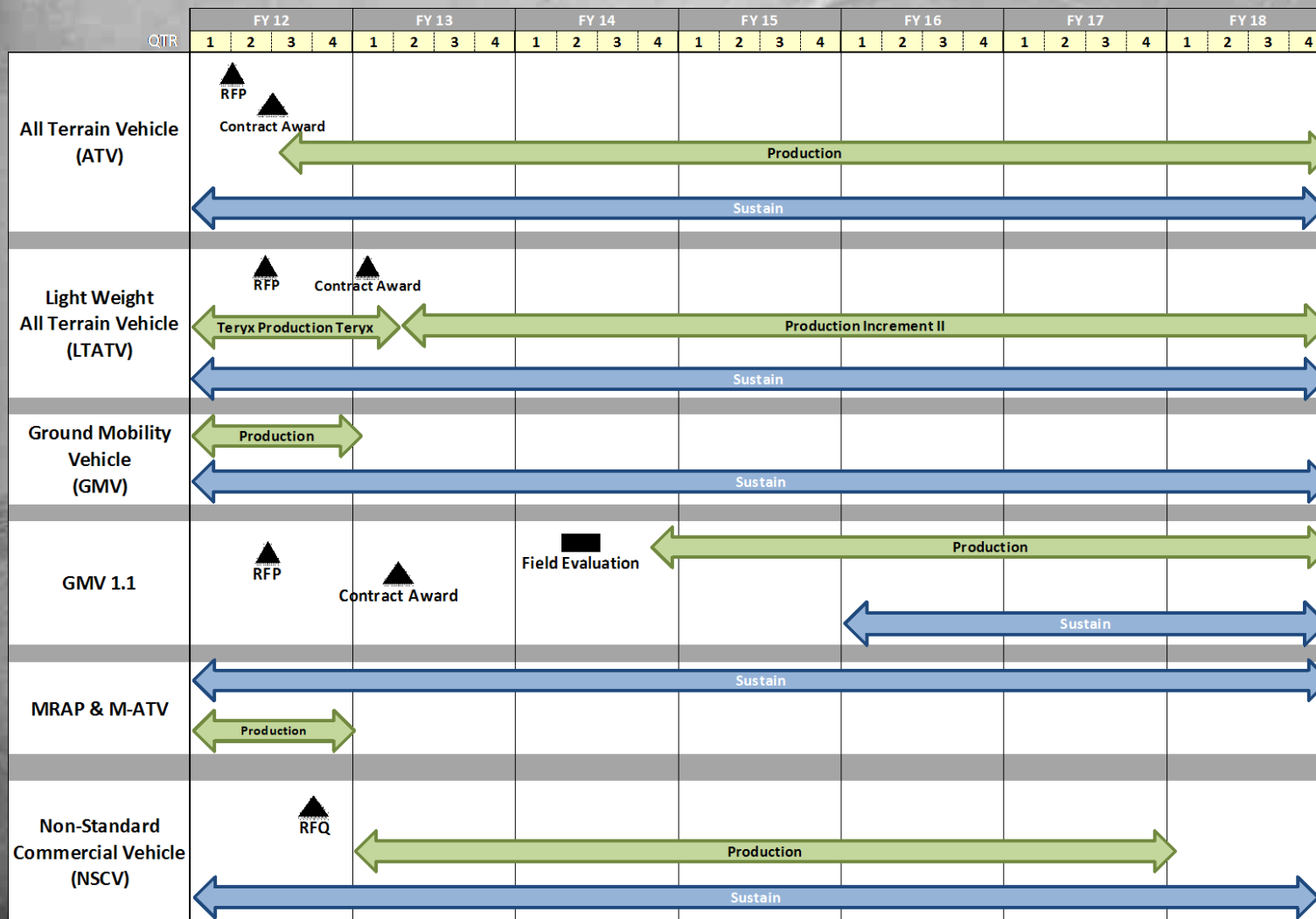
- **593 modified-COTS All-Terrain Vehicles**
- **651 modified-COTS Light Tactical All Terrain Vehicles**
- **1,141 SOF Ground Mobility Vehicles (HMMWV-based)**
- **343 Non-Standard Commercial Vehicles**



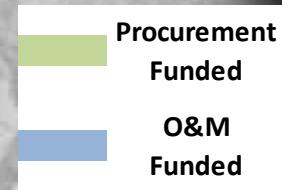
# SOF WARRIOR



## FOSOV Road Map



### Legend





## Acquisition Philosophy

- **Maximize utilization of Service Common material solution**
  - Fully integrated in the requirements/development process
- **Integration at the System Level for Operational Capability**
  - Modular, user installable C4I
  - Weapons integration
  - Ballistic/Blast protection upgrades
  - Modularity, flexibility of modification, speed of delivery for mission
- **Build SOF Specific material solution**
  - Procure and sustain when above two options are unavailable
  - Limited resources
  - Focused on SOF-specific missions



## All Terrain Vehicles

- Replace aging ATV fleet with “off-the-shelf” vehicles
- Components may execute purchases on their own starting in FY14
- Average economical expected useful life is 3 years
  - Approx 200 life cycle replacements needed per year

### Acquisition Strategy

Full and Open Competition  
Pre-award Field Evaluation  
GSA Multiple Award Schedule (MAS)

### Period of Performance

Ceiling buy 470 vehicles (2 years)

### Milestones

GSA MAS Award: March 2012  
Test & Evaluation: March-May 2012  
Vehicle Fielding: July 2012

### Point of Contact

PM FOSOV

### Funding

\$7.2M total (FY12 + FY13)

### Current Contract/OEM

Polaris: MV-850



## ATV Requirements

| <u>Attribute</u>                                     | <u>Threshold</u>                           | <u>Objective</u>  |
|--|--|-------------------|
| • Range  | 75 miles at GVWR                           | 100 miles at GVWR |
| • Controls   | Motorcycle Handlebar                       | T=O               |
| • Acceleration<br>GVWR                               | 0-30 mph in 7 sec GVWR                     | 0-45 mph in 7 sec |
| • Transportability                                   | Internal (CV-22 & MH-47)                   | T=O               |
| – Air Dropable                                       |  |                   |
| • Mobility   | 4x4 Drive System                           |                   |
| • Environment  | All Geography                              |                   |
| – 10K feet altitude & -25 to +130 degrees Temp Range |  |                   |
| • Performance  | At GVW Hard Surface                        |                   |
| – Maintain 45 mph (T) 65 mph (O)                     | Maintain 40 mph on 5% grade (T) 60 mph (O) |                   |
| • Payload  | 500 lbs                                    | 800 lbs           |
| • Curb Weight  | 1200 lbs                                   | 700 lbs           |





## Lightweight Tactical All Terrain Vehicle

- Replace LTATV fleet with approved Increment II Program Parameter Change with commercial “off-the-shelf” vehicles.
- Increment II LTATV will bring the latest technology to the field
- Projected annual procurement quantity of 294 vehicles per year

### Acquisition Strategy

Full and Open Competition  
Pre-award Field Evaluation  
GSA Multiple Award Schedule (MAS)

### Period of Performance

One year with four option years:  
Blanket Purchase Agreement  
GSA Multiple Award Schedule (MAS)

### Milestones

GSA RFI Planned: June 2012  
GSA RFQ Planned: August 2012  
GSA Award: November 2012  
Vehicle Fielding: March 2013

### Point of Contact

PM FOSOV

### Funding

\$9.5M per year (estimate)

### Current Contract/OEM

Kawasaki: Teryx 750



## LTATV Requirements

- **Range** 75 miles at GVWR (T) 150 miles (O)
- **Controls** Standard Automotive (T=O)
- **Acceleration @ GVWR** 0-30 mph in 10 sec (T) in 5 sec (O)
- **Internal Air Transport** V-22 & MH-47 (T=O)
- **Mobility** 4x4 Drive System
- **Payload (Two and Four Seat Variants Required)**
  - **Two Seat** 900 lbs (T) 1000 lbs (O)
  - **Four Seat** 1200 lbs (T) 1500 lbs (O)
- **Curb Weight**
  - **Two Seat** 1600 lbs (T) 1000 lbs (O)
  - **Four Seat** 2000 lbs (T) 1800 lbs (O)
- **Environment** All Geography
  - Up to 10,000 feet altitude & -25 to +130 deg. F
- **Performance @ GVW on Hard Surface**
  - Maintain 45 mph (T) 65 mph (O) Maintain 40 mph on 5% grade (T) 60 mph (O)



## Ground Mobility Vehicle (GMV 1.1)

- Approved requirement for a MH-47 internally transportable, “roll off” mission ready, medium weight vehicle
- Single contract award for test quantities leading to a full-rate production decision
- Projected full-rate procurement quantity of ~200 vehicles per year

### Acquisition Strategy

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

### Period of Performance

2 Years Integration, Evaluation and Test  
5 Years Production (Optional CLINs)

### Milestones

RFP Release : Apr 12  
Test Qty Production Award: Jan 13  
Test/Evaluation Start: Oct 13  
Full Rate Production Award: Jul 14

### Point of Contact

PM FOSOV

### Funding

\$396M (FYDP)

### Current Contract/OEM

None



## GMV1.1 Requirements

- **Protection**
  - Modular, lightweight armor solutions
  - Signature management in a variety of environments
- **Design / Ergonomics**
  - Embark/debark a C/MH-47 w/ primary weapons ready to fire in less than 60 seconds
  - 4 primary passengers plus gunner and provisions for 2 secondary passengers
  - 360 degree crew visibility while minimizing dead space
  - Safe and comfortable seat design
  - Primary weapons station can continuously traverse 360 degrees
- **C4I Capacity**
  - Reduced C4ISR footprint, modular & user installable
  - Flexible integration design to accommodate rapidly evolving C4ISR systems
  - Future growth plan



## GMV1.1 Requirements (continued)

- **Mobility**
  - Transportable internally via C/MH-47
  - GVW threshold of 13,000 lbs ( Curb Weight + Flight Critical payload)
  - Operational profile:
    - 70% on secondary roads and trails
    - 30% primary roads
  - Capable of negotiating an 18 inch vertical step
  - Minimum 250 mile range using internal fuel tanks that are no more than 75% full
- **Desirable future technologies**
  - Multi-fuel capability
  - Simulators to save in training costs
  - Next-generation, enhanced situational awareness tools
- **Sustainment**
  - Modular maintenance/parts
  - Maintainable by operators in austere environments with minimal assistance



## Non-Standard Commercial Vehicles

- Provide SOF operators with low signature mobility by acquiring commercial vehicles that are representative of indigenous operating environments and modified to meet SOF-unique requirements
- Estimated \$69M effort for a total of ~300 vehicles

### Acquisition Strategy

Full and Open Competition  
GSA Blanket Purchase Agreement

### Period of Performance

Five Year Blanket Purchase Agreement

### Milestones

GSA RFQ Planned: May 2012  
GSA Award: July 2012  
Test & Eval: Oct 2012 thru May 2013  
Vehicle Fielding: July 2013

### Point of Contact

PM FOSOV

### Funding

\$11M per year (estimate)

### Current Contract/OEM

Ultra Armoring



## **NSCV Requirements**

**Commercial vehicles that include some combination of the following SOF modifications:**

- Armor**
- C4ISR wiring, mounts and antennas**
- Upgraded Suspension and chassis reinforcement**
- Heavy duty brakes**
- IR lighting**
- Winch**
- Run Flat Tires**
- Roof Rack**
- Additional power outlets**



# SOF WARRIOR



## Questions?



**PM FOSOV: Enabling Users to Meet Their Objectives  
and Return Home Safely**