Advanced Planning Briefing to Industry 13-14 May 2008

#### EQUIPPING THE WARFIGHTER TO WIN

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## Ground Transportation and Engineer Systems

## Product Group 15 Overview

Mr. Gordon W. Taylor Product Group Director (703) 432-3822 Gordon.taylor@usmc.mil



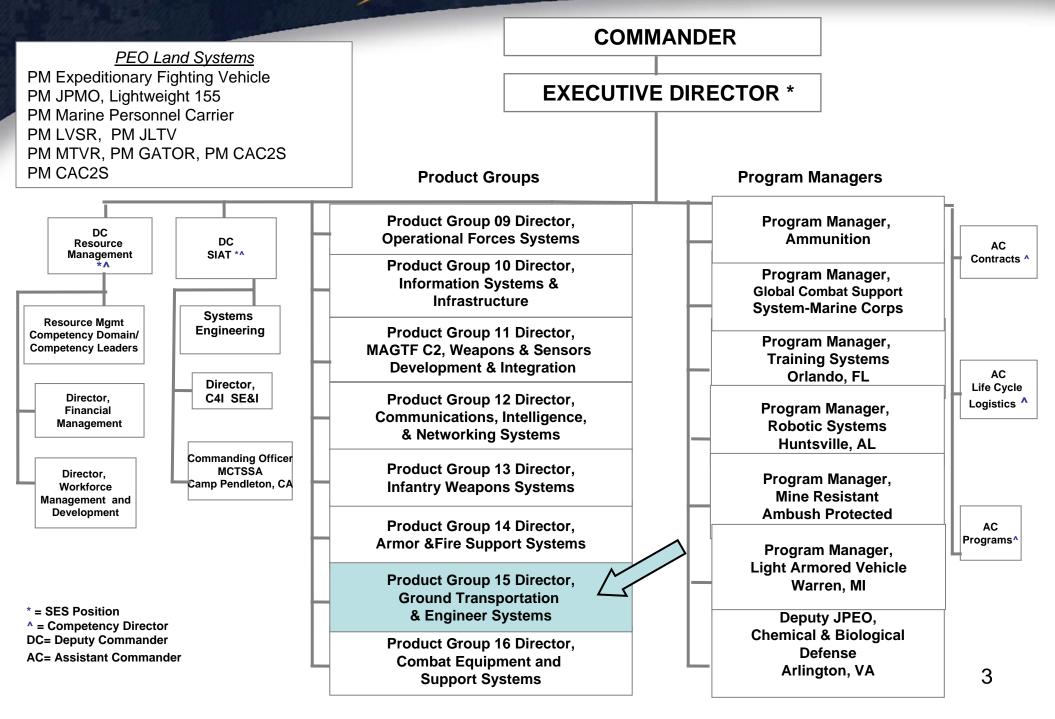
#### EQUIPPING THE WARFIGHTER TO WIN

- GTES is the Marine Corps principle agent for system acquisition and total life cycle system management of
  - Ground Transportation (Light, Medium, & Heavy)
  - Combat Mobility (LAV, MRAP)
  - Engineer Systems
  - Expeditionary Power Systems
  - Containers
- Our Program teams have Total Life Cycle Management responsibility for their equipment
- Our external customer is the warfighter and other services
- Our internal customers are MCSC Program Managers who require power generation equipment or a ground transportation or combat mobility platform as part of their system

#### EQUIPPING THE WARFIGHTER TO WIN

#### Where we are located!







ARINE GORPS SYSTEMS G

Product Group Principals:

PM, Motor Transport: Thomas H. MillerPM, Engineer Systems: William MacecevicPM, Expeditionary Power Systems: Michael Gallagher

Competency Alignment Team

- Business Manager: Jack Cave
- Contracts Manager: Stephen Caracciolo
- Lead Financial Manager: Steven Costa
- Lead Engineer: Julie Redfern
- Lead Logistician: Natalie Boddy
- Lead Technologist: William Story

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# Ground Transportation Portfolio PM Motor Transport Light Fleet Tactical Vehicles and Trailers HMMWV HMMWV Armor Interim Fast Attack Vehicle

- MHET/M870 Family

Logistics Vehicle System

- P19 Fire Trucks
- M969/970 Refuelers
- P19 Replacement
- MK970 Refueler





Internally Transportable Vehicle

**Organic Trailers** 



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#### **Combat Mobility Portfolio**

## Program Manager, Light Armored Vehicle (LAV) and Marine Personnel Carrier (MPC)





Light Armored Vehicle

Marine Personnel Carrier



## Combat Mobility Portfolio MRAP Family of Vehicles

The Mine Resistant Ambush Protected (MRAP) family of vehicles provides the Operating Forces multiple mission-role platforms capable of mitigating Improvised Explosive Devices (IEDs), Underbody Mines and Small Arms Fire (SAF) threats which are currently the greatest casualty producers in the Global War on Terror (GWOT). MRAP vehicles will support the following missions:

#### Category I Urban Combat Operations

IDIQ Contracts awarded to nine manufacturers.

**All Services Procuring** 

#### **Concept of Operation:**

Small unit combat operations in urban or confined areas - Mounted patrols, reconnaissance, communications, command and control, and direct interaction with civilian population.

#### **Characteristics:**

- 4x4
- 6 pax
- Curb Wt: 30,000 lbs
- Cbt Wt: 38,000 lbs
- Payload: 6,000 lbs

#### Category II Multi-mission Operations

IDIQ Contracts awarded to nine manufacturers.

Army includes Ambulance Variant

#### Concept of Operation:

Ground logistics support operations -Reconfigurable vehicle capable of convoy security, combat engineering, ambulance, troop & cargo transportation.

#### Characteristics:

- 4x4 and 6x6 variants
- 10 pax
- Curb Wt: 30,000/38,000 lbs (4x4/6x6)
- Cbt Wt: 38,000/52,000 lbs (4x4/6x6)
- Payload: 6,000/14,000 lbs (4x4/6x6)

#### Category III Mine/IED Missions

Buffalo procured under sole source contract to FPII.

Navy and Marine Corps Only

#### **Concept of Operation:**

Explosive Ordnance Disposal - Route Clearing; detect and disarm or detonate IEDs, mines and other explosive devices.

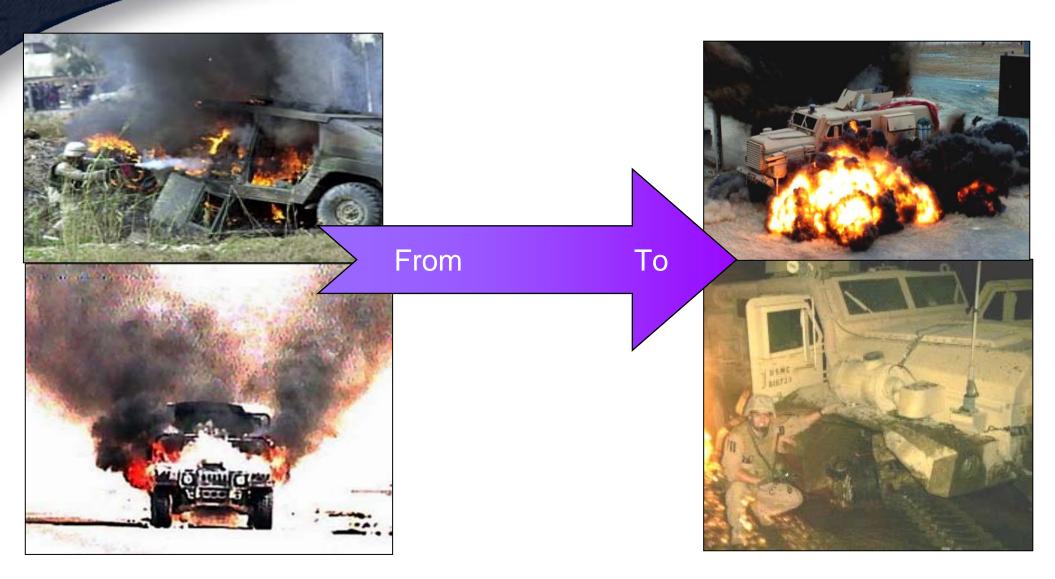
#### **Characteristics:**

- 6x6
- 6+ pax
- Curb Wt: 45,000 lbs
- Cbt Wt: 80,000 lbs
- Payload: 38,000 lbs

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## **Combat Mobility Portfolio**



## **MARINE CORPS SYSTEMS COMMANI**

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## Combat Mobility Portfolio Currently Fielded Vehicles



#### **MRAP CAT I**

- Cougar 4X4 model
- Mine Resistant Utility Vehicle (MRUV)
- Urban Combat Operations
- 4x4
- 6 pax
- Curb Wt: 14,000 lbs
- Cmbt Wt: 16,000 lbs
- Payload: 10,000 lbs



#### MRAP CAT II

- Joint EOD Rapid Response Vehicle (JERRV)/Cougar
- Multi-mission (convoy escort, troop transport, ambulance, EOD, Cmbt Engr)
- 4x4 and 6x6 variants
- 10 pax
- Curb Wt: 30,000 lbs (4x4) 38,000 lbs (6x6)
- Cmbt Wt: 38,000 lbs (4x4) 52,000 lbs (6x6)
- Payload: 6,000 lbs (4x4)
- 14,000 lbs (6x6)

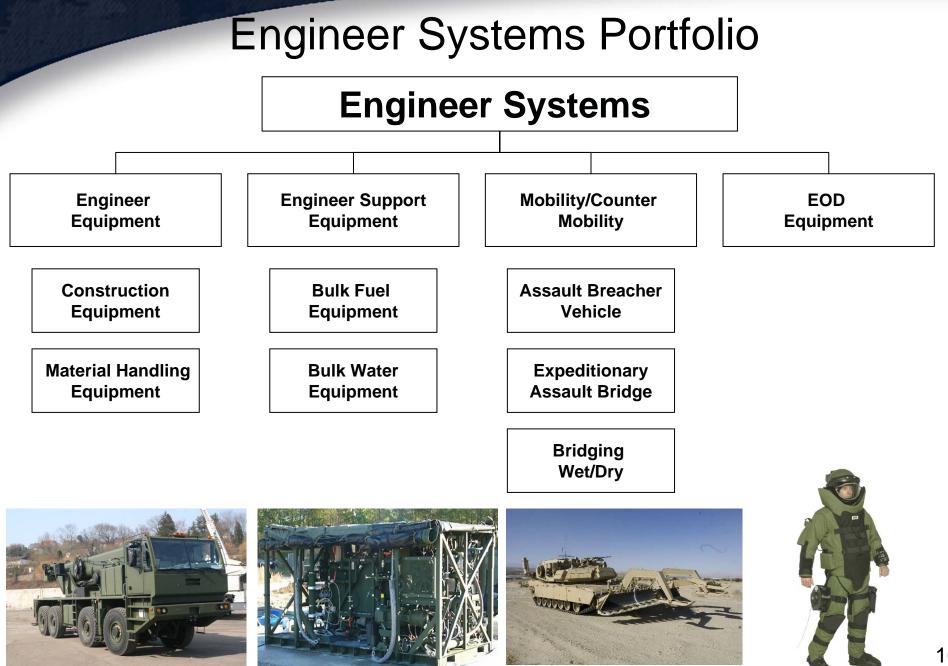


#### **MRAP CAT III**

- Buffalo
- Mine/IED Clearance Operations
- 6x6
- 12 pax
- Curb Wt: 45,000 lbs
- Cmbt Wt: 80,000 lbs
- Payload: 38,000 lbs

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## **Expeditionary Power Systems**

**Program Manager - Expeditionary Power Systems** 



**Advanced Power Sources** 



**Environmental Control Equipment** 



**Mobile Power Sources** 



### **PG 15 FYDP Investments**



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	FY08	FY09	FY10	FY11	FY12	FY13		
RDT&E	\$2.8M	\$1.3M	\$1.3M	\$0.6M	\$0.6M	\$0.7M		
PMC	\$535.2M	\$64.9M	\$55.7M	\$62.0M	\$6.6M	\$7.4M		
Motor Transportation	HMMWV/MILMO/LV\$							
• • • • • • • • • • • • • • • • • • •								
Systems	MTVR and Family of Tactical Trailers/FLATRACK/							
RDT&E	\$3.7M	\$ -	\$ - 9	5 - 9	5 - 9	<b>_</b>		
PMC	\$300.4M	\$104.2M	\$162.0M	\$117.4M	\$54.5M	\$56.0M		
	φ <b>300.</b> -μμι	φ104.210	φ102.0W	φιι/τινι	φ <b>3</b> <del>1</del> .5₩	φ <b>30.0</b> Μ		
	Eamily of Construction and Material Handling Equipment							
		Family of Construction and Material Handling Equipment						
	Тас	tical Fuel and	Water Delivery	and Purificati	tion Systems			
Engineer Systems	Mine Roller and EOD and Demolition Equipment							
RDT&E	\$ -	\$ -	\$ - 9	5 - 9	5 - 9	5 –		
PMC	\$41.5M	\$28.3M	\$26.1M	\$23.7M	\$30.1M	\$30.0M		
	φ+1.5ΙΨΙ	φ20.5ΙΨΙ	ΨΖΟ. ΠΝΙ	φ <b>2</b> 5.7 ΙΨΙ	φ <b>50.</b> ΠΜ	φ <b>50.0</b> Μ		
Expeditionary	Advance Power Sources and Mobile Electric Power							
-								
Power Systems	Environmental Control Equipment and Family of Containers							



## Solicitation to Industry

 Tactical wheeled vehicle solutions that are expeditionary, mobile, ensure force protection, improve survivability, and decrease reliance on fossil fuels (NEEDED YESTERDAY)

Includes improvements to fielded systems

- Power generation alternatives for a variety of customers and applications (ON BOARD POWER NEEDED YESTERDAY)
- Combat Engineer equipment that is aligned with the commercial market

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• Next Speaker:

## Mr. William P. Maceceivc Program Manager, Engineer Systems

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## Ground Transportation and Engineer Systems

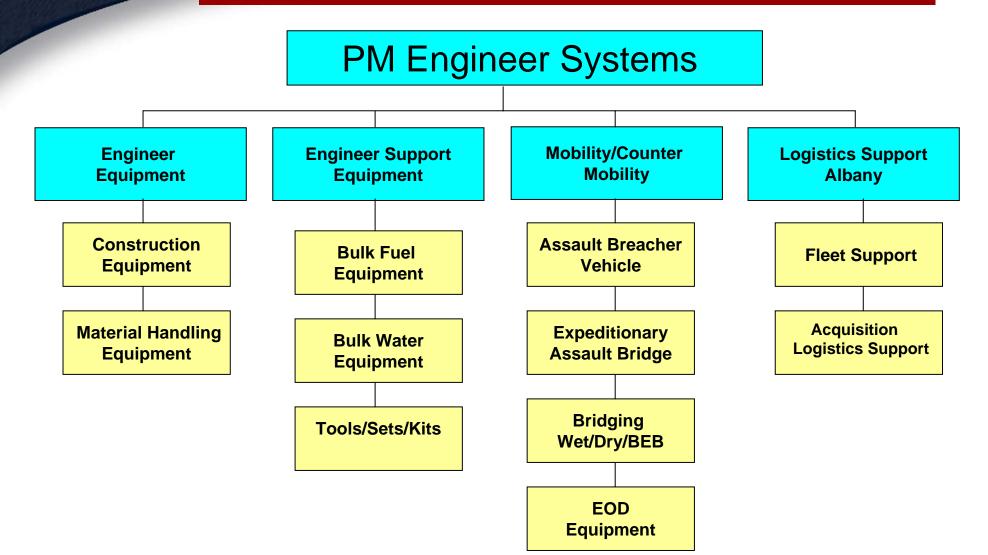
## Program Manager Engineer Systems

Mr. William Macecevic (703) 432-3598 william.macecevic@usmc.mil

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PM Engineer Systems Mr. William Macecevic





PM Engineer Systems Mr. William Macecevic

## Near-Term Program Initiatives

- TACTICAL FUEL AND WATER LOGISTICS INTEGRATOR
  - Procure sustainment systems and components for centrally managed fuel and water systems
- SCRAPER
  - Construction Equipment Program
  - Anticipate joint with Army
- Water Packaging System
  - Requirement being defined
  - Anticipate requirement for interoperability with Tactical Water Purification System and Light Weight Water Purification System
- Mine Rollers
  - War loss replacements
- EOD Equipment
  - Recapitalize Family of EOD equipment (Bomb suits, SCBA, Explosive Detectors, Total Containment Vessel)

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#### PM Engineers FYDP Investments



<ul> <li>Martin and the second se</li></ul>								
		<b>FY08</b>	FY09	FY10	FY11	FY12	FY13	
MHE/CE	РМС	\$117.6M	\$57.4M	\$89.7M	\$67.5M	\$39.4M	\$40.9M	
Engineer Support Equipment	РМС	\$70.2M	\$30.6M	\$51.5M	\$45.9M	\$11.0M	\$10.9M	
Mine Counter Mine Systems	RDT&E PMC	\$0.7M \$112.6M	\$16.2M	\$20.8M	\$4.0M	\$4.1M	\$4.2M	



PM Engineer Systems Mr. William Macecevic

## **Future Program Initiatives**

- Recapitalization of Construction and material Handling Equipment
  - Equipment master plan outlines out year projected procurements
- Route Clearance Systems
  - Requirement being defined
  - Anticipate multiple systems/capabilities: Detection, Neutralization, Detonation
- EOD Modernization
  - Technology refresh
  - Maintaining the most current technology and capability
- Tactical Fuel and Water Component Upgrades

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PM Engineer Systems Mr. William Macecevic

## Welcome Product Information !





PM Engineer Systems Mr. William Macecevic

• Next speaker:

Mr. Michael Gallagher Program Manager Expeditionary Power Systems

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## Ground Transportation and Engineer Systems

13-14 May 2008

## Program Manager Expeditionary Power Systems

Michael Gallagher (703) 432-3572 michael.a.gallagher@usmc.mil



PM Expeditionary Power Systems Mr. Michael Gallagher

## Portfolio

- Advanced Power Sources
  - Radio Power Adaptors
  - Battery Management and Support Systems
  - On-Board Vehicle Power Systems
  - Family of General Purpose Power Supplies
  - Auxiliary Power Units
  - Renewable Energy Systems
- Mobile Electric Power
  - Tactical Power Generation (IAW DoD Joint Operating Procedures)
  - Mobile Electric Power Distribution
  - Integrated Power Environmental Control Trailer System (ITEG)
  - Floodlights
- Environmental Control
  - Environmental Control Equipment
  - Field Refrigeration Systems
  - Unique Power and Refrigeration Toolkits (operator level)
- Family of Centrally Managed Containers

LOGISTICS CON

PM Expeditionary Power Systems Mr. Michael Gallagher

## Near-Term Program Initiatives / Opportunities

- Solar Portable Power Adaptors for Comm-Equipment
- Family of Container (Tri-Con / Quad-Con / PALCON)
- On-Board Vehicle Power (HMMWV class)
- Small Field Refrigeration System
- Integrated Trailer-ECU-Generator
  - HMWMV towable
  - MTVR towable
- Vehicle Auxiliary Power Units (DACP funded)
- Radio Power Adaptors (Marine Enhancement Program)
- Marine Expeditionary Rifle Squad Power Integration (varied)

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PM Expeditionary Power Systems Mr. Michael Gallagher

## **Funding Plans**

	FY08	FY09	FY10	FY11	FY12	FY13
Advanced Power Sources	\$17.2M	\$1.6M	\$1.7M	\$1.8M	\$3.7M	\$3.8M
Mobile Electric Power	\$7.8M	\$14.7M	\$15.1M	\$15.5M	\$15.1M	\$15.5M
Environmental Control Equipment	\$5.5M	\$5.1M	\$5.3M	\$5.3M	\$5.3M	\$5.4M
Family of Containers	\$8.5M	\$4.1M	\$3.8M	\$0.9M	\$6.5M	\$5.6M
Floodlight Replacement	\$1.2M	\$2.6M				
TOTAL	\$41.5M	\$28.3M	\$26.1M	\$23.7M	\$30.1M	\$30.0M



PM Expeditionary Power Systems Mr. Michael Gallagher

## **Future Program Initiatives**

- Family of Power Supplies (2012)
- Family of Battery Chargers (2011)
- Family of Radio Power Adaptors Reset (2011)
- Family of Power Supplies (2011)
- Family of Environmental Control Units (2013)
- Field Refrigeration Systems (2013)
- Mobile Electric Power Distribution (2013)
- Floodlight Set Rebuy (2013)
- Man-Portable Power Generation (ONR Transition)



PM Expeditionary Power Systems Mr. Michael Gallagher

## **Discussion Topics**

- DOD Policy for use of Non-Standard Generators
- Naval Lithium Battery Safety Policy
- Market Research drives Acquisition Strategy
- Commonality with other Services
- Use of Federal Supply Schedules
- Commercial Item Procurement
  - Critical Performance Parameters
  - Value Added Features
- Small Business Set-Aside when applicable
- Source Selection
  - Best Value Award Determination
  - Production Representative Sample Verification



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PM Expeditionary Power Systems Mr. Michael Gallagher

• Next speaker:

Mr. Paul Mann Joint Program Manager MRAP Systems

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## Joint Mine Resistant Ambush Protected Vehicle Program (JMVP)

## Joint Program Manager MRAP

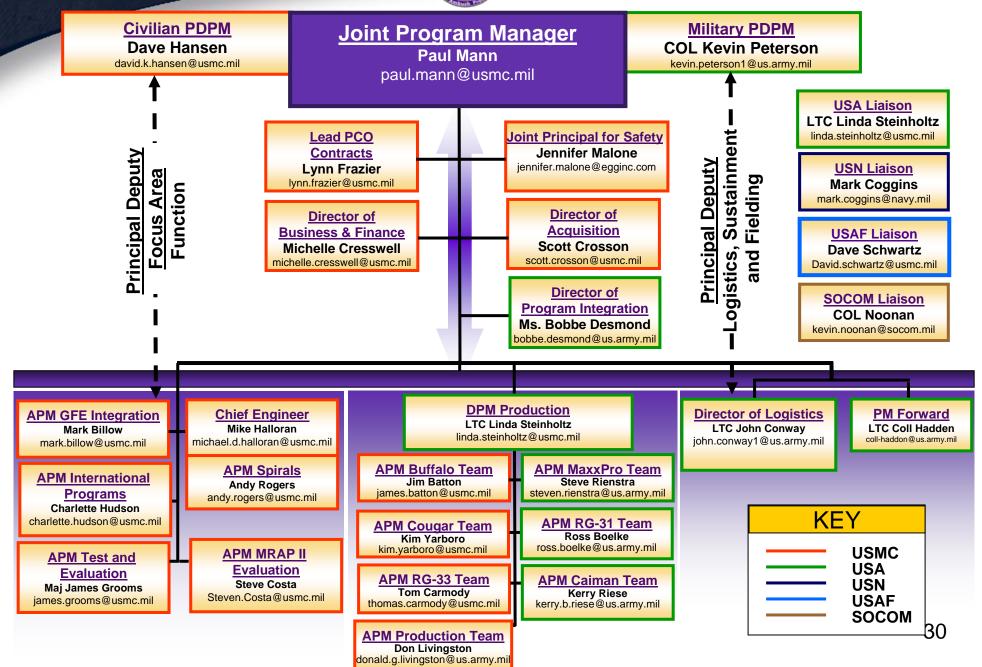
Mr. Paul Mann (703) 432-3654 paul.mann@usmc.mil

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#### EQUIPPING THE WARFIGHTER TO WIN





#### **Advanced Planning Briefing to Industry**



#### PM MRAP Mr. Paul Mann

### Near-Term Program Initiatives

- Production, Integration, Delivery
  - On a steep slope of production ramp-up. Tracking very close to plan.
  - Vehicles being produced at an amazing rate, ~1200 per month vs only 77 in Apr 07
  - Total JROC-approved Acquisition Objective = 14,204 19,655 vehicles
- Enhanced Performance: Significant improvements in survivability and automotive capabilities in process. Block upgrade strategy in development.
- Schedule: Continued emphasis on accelerating deliveries to the field across the total program.
  - Production Schedule: Increasing production capacity, constantly improving daily and weekly flow of deliveries to SPAWAR
- GFE Integration: Throughput number of vehicles per day pacing production.
  - Consistently achieving more than 30 per day.
- Sustainment: Expediting movement to hybrid organic-Contractor Logistics Support approach. Joint Logistics Integrator provides theater support.
- Resources: Aggressively expending resources to field and sustain as many MRAP vehicles as quickly as practical based on user requirements/feedback.



## JMVP Funding Overview

As of 9 May 08

\$B	FY06/ Prior Funds	FY07 Bridge Supp	FY07 Supp	FY07 ATR	FY08 Amended Request	FY08 Cost Adj	FY09 Bridge Supp
USMC	\$0.043	\$1.031	\$1.303	\$0.119	\$2.784	\$0.020	\$0.436
USA	-	\$0.090	\$1.217	\$0.798	\$1.764	\$11.028	\$1.883
USN	\$0.130	\$0.060	\$0.137	\$0.107	\$0.316	-	\$0.109
USAF	-	-	\$0.139	\$0.031	\$0.758	-	\$0.106
SOCOM	-	-	\$0.259	\$0.110	\$0.160	-	\$0.076
TOTAL	\$0.173	\$1.181	\$3.055	\$1.165	\$5.783	\$11.047	\$2.610
\$22.4B Funded Thru FY08							

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#### PM MRAP Mr. Paul Mann

### Future Program Initiatives & Needs

- Complete MRAP Vehicle Production and Fielding
  - Gentle Ramp Down of production to complete Nov 08
- Accomplish MRAP Engineering Change Proposals in response to evolving user requirements
  - 50 Mine Resistant Ambush Protected Expedient Armor Program (MEAP) kits completed, enroute to theater
  - Fully integrated EFP protected capable vehicles in production
- Complete Integration of MRAP supply chain with DoD supply efforts
  - Transition to organic supply system
- Program Transition
  - Production to Sustainment
  - Lead-Service Transition Decision points driven by events not calendar
- Potential Program Needs Business Opportunities
  - Specialized program, engineering and logistics support services
  - Weight, space, power management
  - Survivability and other performance improvement technologies



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PM MRAP Mr. Paul Mann

• Next speaker:

Mr. Thomas Miller Program Manager Motor Transport

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## Ground Transportation & Engineering Systems (Product Group #15)/PEO Land Systems Program Manager, Motor Transport

## **Program Manager:**



## Thomas H. Miller

PH: 703-432-4436;

Thomas.H.Miller3@usmc.mil



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PM Motor Transport Mr. Miller

- PM Motor Transport Portfolio:
  - Light Tactical Vehicles (GTES)
    - USMC HMMWVs and HMMWV Armor
    - Light Tactical Trailers
    - Military Motorcycles

## - Medium/Heavy Tactical Vehicles (GTES)

- MTVR Trailer
- Flatrack Refueling Capability (FRC)
- Medium and Heavy Tactical Trailers
- Support for Legacy Vehicles:
  - 5 Ton Trucks
  - Logistics Vehicle System Vehicles and Armor
- PEO Land Systems Programs
  - Medium Tactical Vehicle Replacement (MTVR)
  - Logistics Vehicle System Replacement (LVSR)







PM Motor Transport Mr. Miller

 Near term program initiatives – GTES Programs

# - Flatrack Refueling Capability

- Logistics Vehicle System Replacement (LVSR) compatible system, dispenses and de-fuels from USMC aircraft and provides refueling capability for the MLG and Division.
- IOC:4th Qtr FY09;FOC: 1st Qtr/FY12; AAO: 381
- Supplier: TBD conducting market research

# – MTVR Trailer

- Replaces the current M105, M149, and M353 trailers; matches the MTVR's increased mobility without degrading its operational capabilities.
- IOC: 1st Qtr/FY10; FOC: 4th Qtr/FY13; AAO: 6,615
- Supplier: Choctaw Manufacturing, McCallister, OK



PM Motor Transport Mr. Miller

# • Near term program initiatives - GTES

#### High Mobility Multi-Purpose Wheeled Vehicles (HMMWVs)

- Continuing to procure HMMWVs through the Army TACOM
- Assessing and incorporating safety and RAM upgrades (ex. Vehicle Emergency Egress windows, Fire Extinguisher Systems, Seat Belts, etc.)
- Assessing armor upgrades with MCLB Albany Maintenance Center and Nevada Automotive Test Center (NATC)
- Motor T Modifications
  - Funding line to develop and field modifications to improve the operation and safety of fielded Motor T systems (RAM, safety, cost and obsolescence, etc.) as a result of safety hazards, quality deficiency reports, and other initiatives.
  - Request industry's assistance in providing ideas for vehicle/trailer modifications in these areas



**PM Motor Transport** Mr. Miller

# Future initiatives - GTES

- P-19 Replacement:
  - Potential new program to procure Aircraft Rescue and Firefighting vehicles to replace the aging A/S32P-19A fleet in support of expeditionary airfield operations and the supporting establishment. The ARFF vehicles will be equipped with fire suppression compounds and extinguishing agents, handheld extinguishers, and specialized rescue tools used by firefighters extinguishing aircraft or structural fires. Add-on armor capability is required. Addresses replacement vehicles for the tactical fleet plus bases & stations. P-19 vehicles (TAMCN D1064) were introduced into service in 1984 with a service life of 12 years.
  - Proposed AAO: 180

#### **PG 15 FYDP Investments\***



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		<b>FY08</b>	FY09	FY10	FY11	FY12	FY13		
	RDT&E	\$ -	\$ -	\$ - 9	s – s	5 - 5			
	PMC	\$444.6M	\$30.3M	\$28.2M	\$4.8M	\$3.6M	\$4.3M		
Light Fleet		HMMWV/Military Motorcycles							
(GTES)			Family of Tactical Trailers						
	RDT&E PMC	\$2.7M \$45.6M	\$1.3M \$50.9M	\$1.3M \$50.0M	\$0.6M \$57.2M	\$0.6M \$3.0M	\$0.6M \$3.0M		
		MTVR Trailer/Heavy Trailers							
		Logistics Vehicle System (LVS) Armor							
Medium/Heavy Fleet (GTES)		Motor Transport Modifications							
*Note: Includes PB09 core funding and requested 08 supplemental; does not include POM-10 funding request.									



PM Motor Transport Mr. Miller

- Near term program initiatives PEO, LS Programs
  - Medium Tactical Vehicle Replacement (MTVR)
    - Continuation of installing MTVR Armor Systems (MAS)
    - Continuation of MTVR new production for USMC and Navy "Grow the Force" and other requirements
    - Supplier: Oshkosh Corporation
  - Logistics Vehicle System Replacement (LVSR)
    - Full Rate Production Decision Review for Cargo variant (1QFY09)
    - Milestone C for Trailer and Wrecker variants (1QFY09)
    - Cargo IOC: 3rd Qtr/FY09; FOC: 2nd Qtr/FY13; AAO: 1699
    - Supplier: Oshkosh Corporation



PM Motor Transport Mr. Miller

- Future initiatives PEO, LS
  - LVSR:
    - Product Improvements, such as an upgraded alternator
    - Potential acquisition of Army PLS trailers for tandem tow capability
    - Potential future armor improvements (better protection, reduced weight)
  - MTVR
    - Life cycle cost reduction initiatives, to improve reliability, maintainability, reduce corrosion, etc.
    - Continuing armor improvements (better protection, reduced weight)

#### **MARINE GORPS SYSTEMS COMMAND**

### PEO, LS FYDP Investments\*



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		FY08	FY09	FY10	FY11	FY12	FY13	
RDT PMC		\$10.0M \$256.6M	\$ - \$ \$30.5M	\$ - \$ \$37.9M	5 - \$ \$33.7M	s - \$ \$45.6M	- \$14.1M	
MTVR (USMC &		MTVR/MTVR Armor						
Navy)		MTVR Modifications						
RDT PMC		\$2.8M \$28.9M	\$3.4M \$304.6M	\$ - \$ \$277.6M	\$ - \$ \$215.0M	5 - \$ \$4.8M	- \$4.9M	
		LVSR Cargo						
				LVSR 1	ractor			
LVSR				LVSR V	Vrecker			
*Note: Includes PB09 core funding and requested 08 supplemental; does not include POM-10 funding request.								



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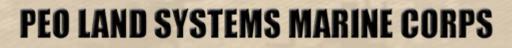


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PM Motor Transport Mr. Tom Miller

• Next speaker:

LtCol Ben Garza Program Manager Joint Light Tactical Vehicle (JLTV)



IT'S ALL ABOUT THE WARFIGHTER



# **PEO Land Systems**

# Joint Light Tactical Vehicle (JLTV)



# **Program Manager: LtCol Ben Garza**



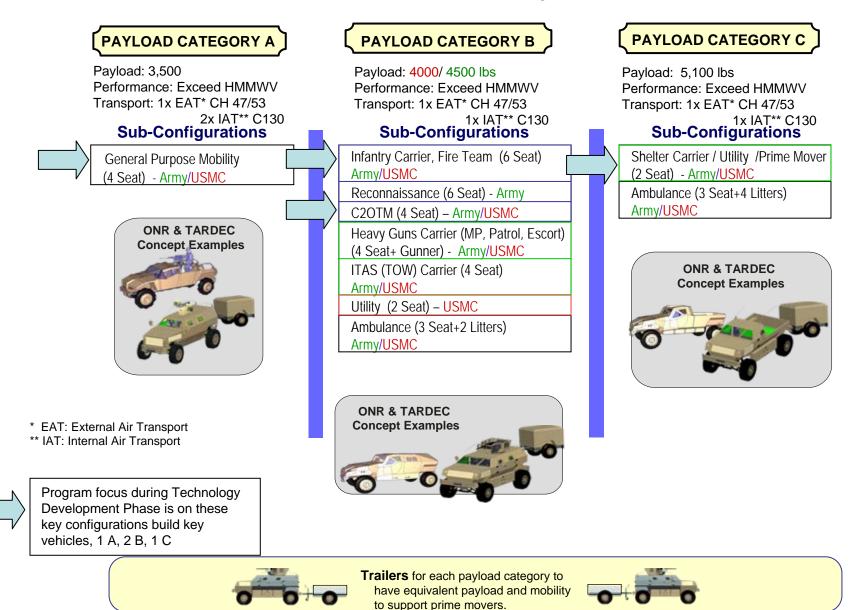
<u>Mission:</u> Jointly develop, produce, field and sustain a safe, reliable, suitable and effective family of Joint Light Tactical Vehicles

<u>Vision:</u> JLTV – Providing our Joint Warfighter with the very best in light tactical vehicle payload, protection and performance **PEO LAND SYSTEMS MARINE CORPS** 

IT'S ALL ABOUT THE WARFIGHTER



#### The Balanced Solution – JLTV Family of Vehicles and Trailers

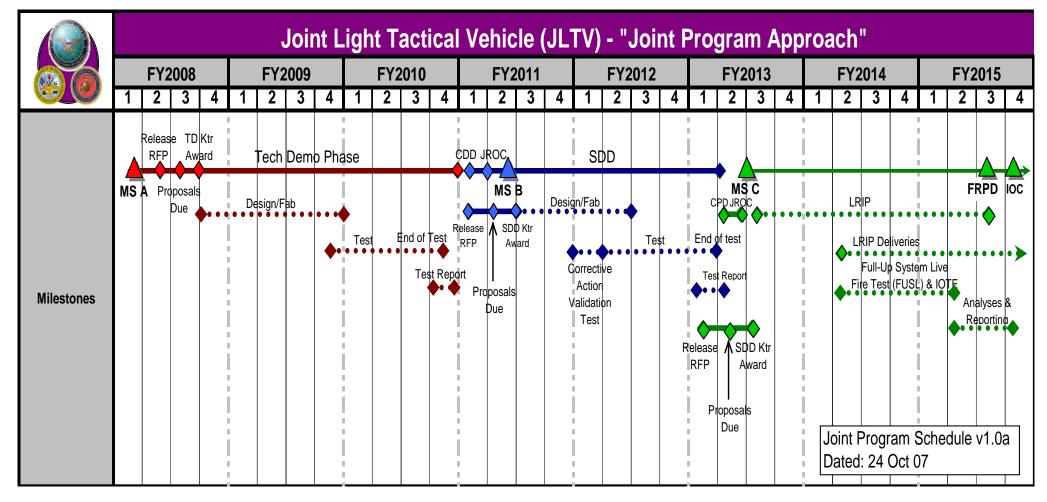


**PEO LAND SYSTEMS MARINE CORPS** 

IT'S ALL ABOUT THE WARFIGHTER



# JLTV Program Schedule (PB09)





IT'S ALL ABOUT THE WARFIGHTER



## **JLTV FYDP Investments**

RDT&E PMC	FY08 \$41.7M	FY09 \$44.0M	FY10 \$56.6M	FY11 \$74.6M	FY12 \$74.9M \$25.0M	FY13 \$75.7M \$106.3M	
	Tech	nology Deve	elopment Ph	ase / Syst	em Design &	& Developme	) In:

## **PEO LAND SYSTEMS MARINE CORPS**

IT'S ALL ABOUT THE WARFIGHTER







#### **Questions?**





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PM Joint Light Tactical Vehicle LtCol Ben Garza

• Next speaker:

Col Mike Micucci Program Manager Light Armored Vehicle (LAV) and Marine Personnel Carrier (MPC) **MARINE CORPS SYSTEMS COMMAND** 

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# 

# **Colonel Mike Micucci, USMC**

**PM LAV** 



EQUIPPING THE WARFIGHTER TO WIN

- <u>PM LAV Mission</u> *Research, development, acquisition* and life cycle support for USMC Light Armored Vehicle family of vehicles.
- <u>Our Location</u> MARCORSYSCOM program office supported by **TACOM** in **Warren**, **Michigan**



- <u>LAV</u> in the *Light Armored Reconnaissance Battalion*.
  - Conduct reconnaissance, security, and economy-of-force operations, limited offensive or delaying operations that exploit the unit's mobility and firepower.
  - Eight-wheeled armored combat vehicle with a **25-year history** to remain in service until to **2025** and possibly beyond.



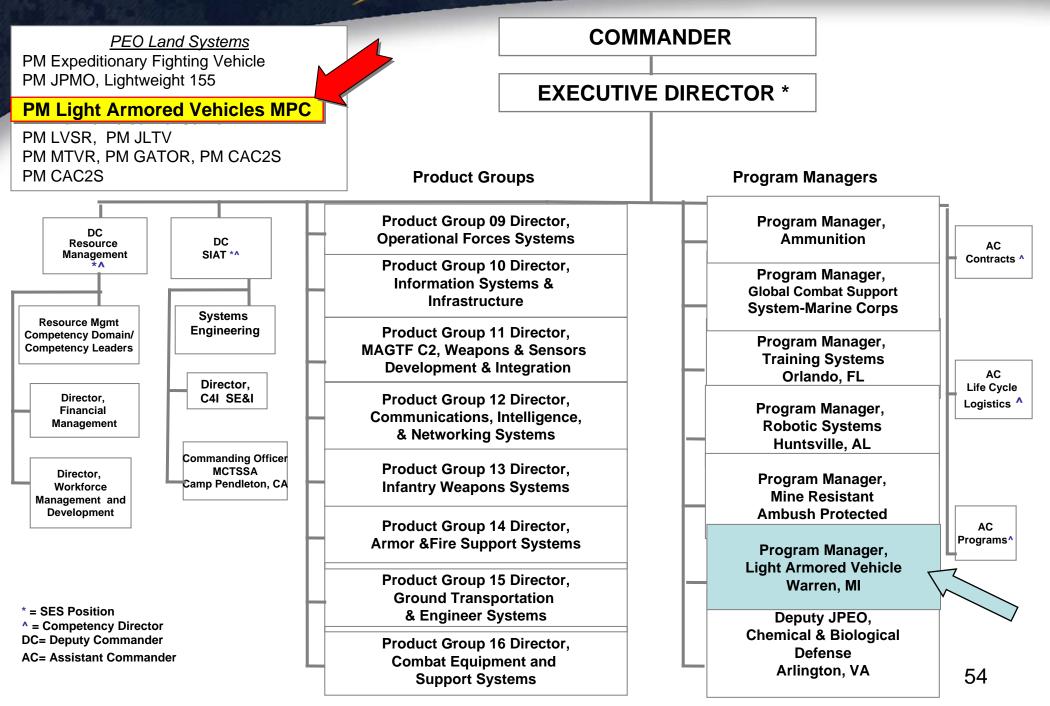
- <u>MPC</u> will reside in the **Amphibious Assault Battalion**.
  - Provide armor-protected mobility for infantry battalion maneuver task forces. 2 MPCs will lift a reinforced rifle squad.
  - The MPC program balances vehicle performance, protection, and payload attributes.

#### **MARINE CORPS SYSTEMS COMMAND**

#### EQUIPPING THE WARFIGHTER TO WIN

#### Where we are located!





**MARINE GORPS SYSTEMS COMMAND** 

EQUIPPING THE WARFIGHTER TO WIN

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PM LAV Principals:

PM: Colonel Mike Micucci, USMC

Deputy PM: Dr. Bob Lusardi

- > A2 Upgrade Program: Jim Streberger
- >ITSS and Survivability Part II: Linda Passeri

C2 Upgrade: Derald Schnepp

- RAM Team: John Engbloom
- >SANG Program: Joe Wagner

▷<u>MPC</u>: Bill Ross

Business/ Financial Manager: Jan Boatman

Contracts Manager: Bill Abramson

Lead Engineer: Matt Koneda

Lead Logistician: Josephine Polanco

#### **MARINE GORPS SYSTEMS GOMMAND**

#### LAV FYDP Investments



EQUIPPING THE WARFIGHTER TO WIN

	FY08	FY09	FY10	FY11	FY12	FY13
RDT&E PMC	\$15.0M \$120.4M	\$11.4M \$65.7M	\$7.6M \$35.7M	\$29.7M \$29.2M	\$87.5M \$5.8M	\$91.3M \$6.0M
LAV Systems	C2 UPGRADE	, MARINE PERSO	NNEL CARRIER,	LAV MODIFICAT	IONS	
	REPR					
	SURVIVABILITY	UPGRADES II				



- Funded Programs
  - LAV SLEP/ Improved Thermal Sight System (ITSS)-Fielding.
  - LAV-C2 Upgrade- *Moving towards Milestone-C.*
  - LAV-25 Lethality Upgrade- Working.
  - OIF Upgrades, A2 Upgrade, LAV Re-Procurement-Fielding.
- Future LAV Programs (FY08-FY09)
  - Marine Personnel Carrier (MPC)
  - LAV Survivability Upgrades Part II
  - LAV RAM Modifications, upgrades, and Rapid Acquisitions

#### **MARINE GORPS SYSTEMS COMMAND**

#### EQUIPPING THE WARFIGHTER TO WIN

# Marine Personnel Carrier (MPC)







GDLS- LAV III H

Germany BOXER







Socializing Joint Status with US Army

- Full and Open Competition
- > Acquisition Objective: ~600 vehicles
- > Family of Vehicles (FOV): includes P, C, R
- Initial Capabilities Document (ICD) validated & approved by MROC
- > Analysis of Alternatives (AoA) completed.
- Capabilities Development Document (CDD) under development

#### Milestone A in FY10

Currently working Pre-Milestone A activities with Office of Naval Research (ONR)





France - VBCI

Marine Personnel Carrier (MPC)



- Currently working with ONR to mature technologies that need to be integrated on the MPC
  - Advance Lightweight Armor Materials/ Technologies
  - Advanced Seat Technology for blast resistance, shock mitigation and roll-over protection
  - Active Protection System
  - On-Board Vehicle Power for <u>exportable power</u>
  - Fuel Efficiency & Battlefield Power
  - Advanced Suspension

**MARINE GORPS SYSTEMS GOMMAND** 

EQUIPPING THE WARFIGHTER TO WIN



**MARINE GORPS SYSTEMS COMMAND** 

EQUIPPING THE WARFIGHTER TO WIN

#### LAV Survivability Upgrade – Part II



- Incorporate <u>Floor Spall Liner</u>
- Protection or Relocation of Fuel <u>Tank</u>
- Incorporate <u>Mine Blast Resistant</u> <u>Seating</u> where possible
  - LAV-25
    - VC and Gunner
    - Scouts
  - Mission Role Vehicles
    - VC and staff locations
  - Driver cannot be suspended but will need a reinforced seat and leg protection





# **"\$5-8 Million dollars per** year are provided to PM LAV for the Modifications, **Obsolescence** Management, Low Cost Upgrades and **Rapid Acquisitions in** support of the LAV fleet."

#### **MARINE GORPS SYSTEMS GOMMAND**

#### EQUIPPING THE WARFIGHTER TO WIN

#### **Past RAM Projects**













# ALL PROJECTS COME OUT THROUGH: Federal Business Opportunities www.FedBizOpps.gov







- USMC LAV projected to remain *in service until 2025*
- LAV family of vehicles must remain
  - *Effective* in the face of increasing threat capabilities

PM LAV - Closing Remarks

- Supportable in the face of increasing age (Obsolescence is a growing issue)
- The challenge: <u>How much survivability, lethality and</u> <u>mobility can be packed into an air-transportable, swim-</u> <u>capable LAV?</u>

# • Near Future:

- Marine Personnel Carrier (MPC)
- LAV Survivability Upgrades
- LAV RAM projects