Transportation Systems

Mr. Wolfgang Petermann  
Product Manager  
Heavy Tactical Vehicles (PdM HTV)

LTC Frank Bridges  
Product Manager  
Medium Tactical Vehicles (PdM MTV)

Mr. Steven Reinstr  
Product Director  
Light Tactical Vehicles (PdD LTV)

LTC John Hall  
Product Manager  
Allied Tactical Vehicles (PdM ATV)

Ms. Zina Kozak-Zachary  
Product Director  
Army Watercraft Systems (PdD AWS)

Heavy Equipment Transporter System (HETS)  
Palletized Load System (PLS) *

Medium Tactical Vehicles (MTV)  
Light Medium Tactical Vehicles (LMTV)

HMMWV With TOW  
FMTV trailers

Line-Haul Tractors  
FMTV based specialty vehicles

High Mobility Multipurpose Wheeled Vehicle (HMMWW)  
Military Strike Force Vehicle (MSFV)

Allied Light Tactical Vehicle (ALTV)

Allied Medium Tactical Vehicle (AMTV)

Sports Utility Vehicle (ASUV)

Bus

Landing Craft (Lighters)  
Floating Craft
PM TS Priorities & Opportunities for Industry

- **Project Manager**
  - Support TWV Strategy to Congress - 1QFY15

- **Product Manager Heavy Tactical Vehicles**
  - Family of Heavy Tactical Vehicles IV (FHTV IV)

- **Product Manager Medium Tactical Vehicles**
  - Production to Sustainment FY21
  - Tech Demonstrator

- **Product Manager Allied Tactical Vehicles**
  - Contractor, Logistics & Training Support (CLTS) Contract
  - Theater Support

- **Product Director Army Watercraft Systems**
  - Maneuver Support Vessel Light (MSV(L))
  - LCU 2000 SLEP zeroed out for initial start in FY14; Directed new start FY16

- **Product Director Light Tactical Vehicles (PdD LTV) (Joined PM TS 31 March 2014)**
  - ARNG HMMWV Ambulance Program at RIA
  - Public Private Partnership (PPP) between AMG and RRAD
**MISSION**
Conduct lifecycle management for expeditionary and Allied Forces, fielding essential transportation and readiness capabilities to the Warfighter, while capitalizing on emerging technologies.

**VISION**
Pursue Tomorrow's Capabilities for Today's Military
Overview

HEMTT M977, 978, 983, 984, 985, 1120
Cargo, Wrecker, Tanker, Load Handling and Engineering Transport

PLS M1074/1075
Cargo, Wrecker, Tanker, Load Handling and Engineering Transport

M915
Line Haul Tractor

HET M1070
Transport, Recover, and Evacuate a 70 ton MBT

Heavy Dump Truck
Construction and Engineering Support

HUSK
Increased Armor Capability for HET

MCRS
Recovery of Heavy Systems

- HEMTT and PLS both have LTAS Compliant Common cab, and an Armored B-kit available
- Companion Trailers are force multipliers and increase recovery, payload capability
- All HTV Trucks leverage standard commercial components from industry

• Unit Resupply
• Unit Mobility
• Ammunition Resupply
• Weapons Platform
• Troop Transport
• System Recovery
• FHTV IV (RECAP)
• Heavy Dump Truck (HDT)
• Modular Catastrophic Recovery System (MCRS)
• M870A4 Trailer (RFI)
Overview

- 17 Truck Variants in 2 1/2 & 5 Ton Payload Class
- Expanded Application of MTV Platform to Support Army Emerging Requirements
  - LHS, 10-Ton Dump, MEADS, HIMARS, DI
- Three Truck Variants Air Drop Certified
  - 2.5 / 5.0 ton cargo, 5 ton dump
- Companion Trailers Double Hauling Capacity
- 65% of AAO are Cargo Variants
- Non developmental --- very low technology risk
- Approximately 80% commonality of parts amongst the fleet

1. M1078 2.5 Ton LMTV Cargo
2. M1079 2.5 Ton LMTV Van
3. M1082 2.5 Ton Trailer
4. M1083 5 Ton MTV Std Cargo
5. M1084 5 Ton MTV Std Cargo w/MHE
6. M1087 5 Ton MTV Exp Van
7. M1088 5 Ton MTV Tractor
8. M1089 8.5 Ton MTV Wrecker
9. M1092 5 Ton Chassis
10. M1093 LVAD
11. M1095 5 Ton MTV Trailer
12. M1148 LHS
13. M1147 LHS Trailer
14. M1157 10 Ton MTV Dump
15. M1273 10 Ton MTV Chassis

- Unit Resupply
- Unit Mobility
- Ammunition Resupply
- Weapons Platform
- Troop Transport

PM TS-NDIA TWV
7 May 2014
Objectives:

- Maximize Commonality between HTV and MTV fleets
- Employ a modular design approach
  - Minimize number of unique variants
  - Support “kit-able” solutions to multiple variant roles
  - Enable tech insertion throughout the vehicle’s life-cycle

Technical Objectives

- Robust architecture capable of accepting network upgrades
- Fuel Efficiency improvement
- Drive-by-wire and digital interfaces for autonomous/automated operation
- Survivability Enhancements
• Four Phase Approach:
  • Phase 1 – Requirements Analysis and Definition
  • Phase 2 – Modeling /Simulation and Design
  • Phase 3 – Demonstrator Build
  • Phase 4 – System Verification

• Currently in Phase 1:
  • Comparison of Army/USMC medium and heavy tactical vehicle capabilities
  • Crosswalk FHTV, FMTV, LVSR, and MTVR requirements, system specifications, and performance for areas of commonality and divergence
  • Engage with users to identify and prioritize current and anticipated capabilities
  • Leverage knowledge and expertise from program offices to capture configuration and performance of current vehicles
  • Prepare high level system spec to guide demonstrator design and development
  • Assess on-going R&D efforts for alignment with this program
Mission

To develop, acquire, produce, field, and sustain safe, reliable, effective and supportable light tactical vehicles for the joint war fighting community.

Sustainment:

- ARNG HMMWV Modernization (PPP) (RRAD & AMG)
- UAH Depot Recap (RRAD)

Production:

- HMMWV Ambulance Production (RIA)
- M200A1 & M1061A1 Production (Schutt)
- LEUT Production (MDD to ASA(ALT))
- LTT Re-buy (Support PM MEP)

Current Operations:

- CS-14 (SPAWAR at Ft Campbell)

Science & Technology:

- MECV – Survivability (Rpt to Congress)
- MECV – Automotive (NATC)
1. HMMWV M997A3 Ambulance Program

2. ARNG HMMWV Modernization (Public-Private Partnership [PPP])

3. Light Engineer Utility Trailer (LEUT)

4. HMMWV Capability Set (CS) 14

5. Trailer (M1061A1 and M200A1) Support to PM Mobile Electric Power (MEP)

6. Light Tactical Trailer (LTT) FY15 Re-buy

7. Depot Recap / Automotive Improvement Program (AIP)

8. HMMWV Sustainment Modernization Initiatives (HSMI)
Product Manager Allied Tactical Vehicles

Contractor Logistics & Training Support (CL&TS) Contract
- CL&TS end state is to provide an enduring organic sustainment capability
- Draft Performance Work Statement being staffed through PEO
  - Draft RFP AUG-SEP 2014
  - RFP OCT 2014
  - Award OCT 2015

Theater Support
- Maintain PM Forward presence to oversee contract performance
- Support integration of sustainment efforts with Afghan National Sustainment Strategy
- Security
  - Bi-lateral Security Agreement (BSA) – what security support will be available post-2014?
  - Afghan Public Protection Force (APPF) disbanded by GIRoA
  - Private Security Companies (PSCs) not yet permitted; Coalition currently tasked with multiple missions
  - Forward Team required to relocate as FOBs are handed over to GIRoA
Army Watercraft Systems

139 Total Vessels and Support Platforms

Modular Causeway System (MCS)
- Small density fleet
- No single OEM or Depot
- Many different configurations
- Several platforms at or past EUL

Logistic Support Vessel (LSV)

Landing Craft Utility (LCU) 2000

Roll-On/Roll-Off Discharge Facility (RRDF)

Large Tug (LT)

Small Tug (ST)

Modular Warping Tug (MWT)

Barge Derrick (BD)

Causeway Ferry (CF)

Floating Causeway (FC)

(LCM-8) (To be displaced by the MSV(L))

12 Years
20 Years
13 Years
12 Years
7 May 2014

PM TS-NDIA TWV
Continue the LCU C4ISR Upgrade

Plan for/Execute Maneuver Support Vessel (Light) (MSV(L))

Plan for/Execute LCU Service Life Extension Program (SLEP)

Research and Development:
- Army Watercraft Module, Berthing (AWMB)
- Common Remotely Operated Weapon Station (CROWS) II and Escalation of Force
- Corrosion Prevention and Control
- Uniform National Discharge Standards (UNDS)
- Emission Standards: Tier III

Additional Information can be found on the Army Contracting Command-Warren Procurement Network (PROCNET) at https://contracting.tacom.army.mil/
Maneuver Support Vessel (Light) (MSV(L))

- Proposed new start program to displace the aging (40+ year old) LCM-8 vessels with a more capable, maneuverable light transport vessel
- Army waterborne platform to provide land maneuver forces with operational reach and agility through tactically synchronized movement of combat ready tailored force elements
- Provide light surface movement and support capable of operating throughout the littoral environment, maneuvering in shallow coastal waters, narrow inland waterways and rivers in support of widely dispersed tailored force elements including anti-access/area denial environments and austere points of access
- Planned production to begin around FY19
- Key Performance Parameters (KPP):
  - Payload
  - Functional Draft
  - Survivability
  - Force Protection
  - Energy
  - Speed
Questions