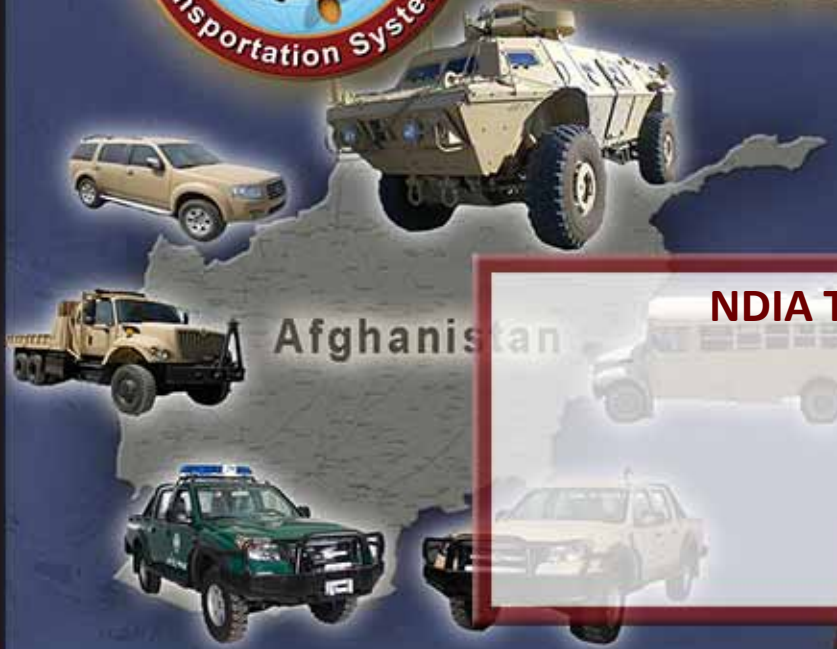




PROJECT MANAGER TRANSPORTATION SYSTEMS



NDIA TWV Conference
7 May 2014
COL William M. Boruff
Project Manager

DISTRIBUTION A: Approved for Public Release

7 May 2014



Transportation Systems



* ACAT 1C

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



Palletized Load System (PLS) *

Heavy Expanded Mobility Tactical Truck (HEMTT)*



Line-Haul Tractors

Heavy Equipment Transporter System (HETS)



ACAT 1C

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



Light Medium Tactical Vehicles (LMTV)

Medium Tactical Vehicles (MTV)



FMTV based specialty vehicles

FMTV trailers



ACAT 1C

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



High Mobility Multipurpose Wheeled Vehicle (HMMWV)

HMMWV With TOW



HMMWV Ambulance

Light Tactical Trailer



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



Mobile Strike Force Vehicle (MSFV)

Allied Light Tactical Vehicle (ALTV)



Allied Medium Tactical Vehicle (AMTV)

Sports Utility Vehicle (ASUV)



Bus



ACAT III

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

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



PM TS Organization



Project Manager
COL William Boruff



Deputy Project Manager
Ms. Pat Plotkowski

MISSION

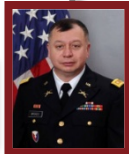
Conduct lifecycle management for expeditionary and Allied Forces, fielding essential transportation and readiness capabilities to the Warfighter, while capitalizing on emerging technologies.

VISION

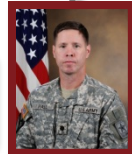
Pursue Tomorrow's Capabilities for Today's Military



Product Manager
Heavy Tactical Vehicles
Mr. Wolfgang Petermann



Product Manager
Medium Tactical Vehicles
LTC Frank Bridges



Product Manager
Allied Tactical Vehicles
LTC John Hall



Product Director
Army Watercraft Systems
Ms. Zina Kozak-Zachary



Product Director
Light Tactical Vehicles
Mr. Steve Rienstra



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



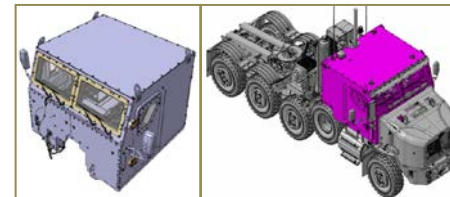
M915
Line Haul Tractor



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



HTV Priorities & Opportunities for Industry



- **FHTV IV (RECAP)**
- **Heavy Dump Truck (HDT)**
- **Modular Catastrophic Recovery System (MCRS)**
- **M870A4 Trailer (RFI)**



Overview



M1078
2.5 Ton LMTV Cargo



M1079
2.5 Ton LMTV Van



M1082
2.5 Ton Trailer



M1083
5 Ton MTV Std Cargo



M1084
5 Ton MTV Std Cargo w/MHE



M1087
5 Ton MTV Exp Van



M1088
5 Ton MTV Tractor



M1089
8.5 Ton MTV Wrecker



M1092
5 Ton Chassis



M1093
LVAD



M1095
5 Ton MTV Trailer



M1148
LHS



M1147
LHS Trailer



M1157
10 Ton MTV Dump



M1273
10 Ton MTV Chassis

- 17 Truck Variants in 2 1/2 & 5 Ton Payload Class
- Expanded Application of FMTV 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

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



Next Generation Tactical Transport System Demonstration



- **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



System Demonstration Approach



- **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



PD LTV Program Overview



Current Programs/Systems Managed

•HMMWV, including:

- M1151A1 Expanded Capacity Armament Carrier
- M1152A1 Expanded Capacity Shelter/Cargo/Troop Carrier
- M1165A1 Expanded Capacity Command & Control Carrier
- M1167 Expanded Capacity TOW Carrier
- HMMWV Depot Recap (M1097R1/M1025R1 and UAH)
- M997A3 Ambulance for ARNG
- ARNG Public-Private Partnership (PPP) Recapitalization
- Modernized Expanded Capacity Vehicle (MECV) T&E
- Capability Set Testing, Fielding & Support

•Light & Medium Trailers

- M1101/1102 Light Tactical Trailer (LTT)
- M1061A1 5-ton Flatbed Trailer
- M200A1 Tactical Chassis Trailer
- M1269 Light Engineer Utility Trailer (LEUT)

PM TS- NDIA TWV

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)



ARNG PPP Modernization

Production:

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



M997A3



M1101/1102 LTT

Current Operations:

- CS-14 (SPAWAR at Ft Campbell)



M1165A1

Science & Technology:

- MECV – Survivability (Rpt to Congress)
- MECV – Automotive (NATC)





LTV Priorities & Opportunities for Industry



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)



ATV Priorities & Opportunities for Industry



• 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

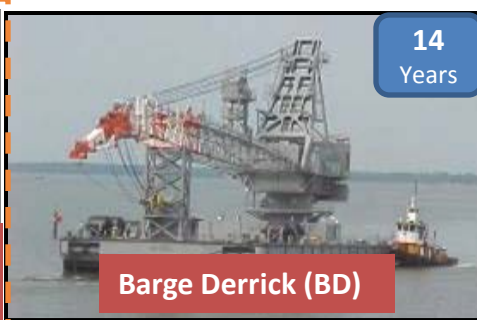
- Maintain PM Forward presence to oversee contract performance
- Support integration of sustainment efforts with Afghan National Sustainment Strategy
- Security
 - Bi-lateral Security Agreement (BSA) – what security support will be available post-2014?
 - Afghan Public Protection Force (APPF) disbanded 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



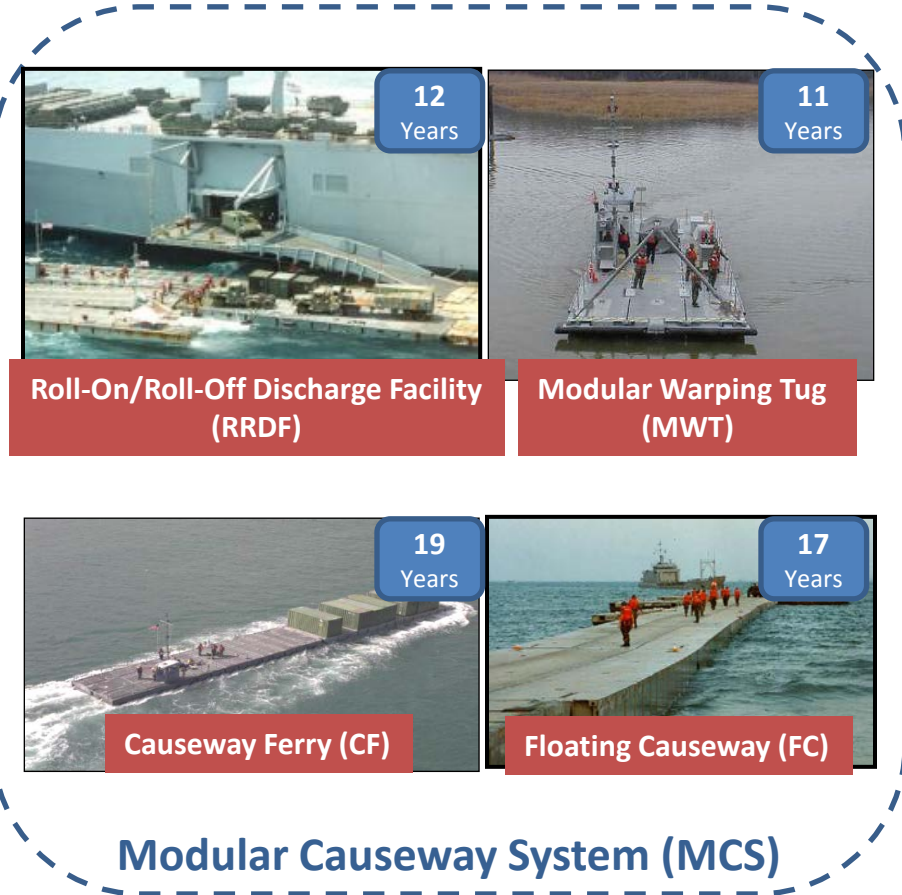
Army Watercraft Systems



139 Total Vessels and Support Platforms



(To be displaced by the MSV(L))



Modular Causeway System (MCS)

- Small density fleet
- No single OEM or Depot
- Many different configurations
- Several platforms at or past EUL



AWS Priorities & Opportunities for Industry



- ❑ 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