



PEO CS&CSS

2011 Advanced Planning Brief to Industry

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Agenda

- **PEO CS&CSS Welcome/Introduction**
- **Project Manager Force Projection**
 - COL Robert Eric Fletcher
- **Project Manager Joint Combat Support Systems**
 - Mr. Dennis Mazurek, Deputy Project Manager
- **Project Manager Mine Resistant Ambush Protected Vehicle (MRAP)**
 - Mr. Carl D. Owens
- **Project Manager Tactical Vehicles**
 - COL David Bassett
- **Combat Support & Combat Service Support (CS&CSS) Readiness & Sustainment (R&S)**
 - Mr. Dan Lorentz, Director, Deployment Equipment Product Support Integration Directorate





PEO CS&CSS Organization



Deputy PEO
Mr. Thomas Bagwell, Jr.



Program Executive Officer
Mr. Kevin Fahey



Deputy PEO AL&T
COL Robert Schumitz



Force Projection
PM: COL Eric Fletcher
DPM: Mr. Steve Roberts



Joint Combat Support Systems
PM: COL William Boruff
DPM: Mr. Dennis Mazurek



Mine Resistant Ambush Protected Vehicles
PM: Mr. Carl Owens
DPM: COL Jeffrey Carr



Tactical Vehicles
PM: COL David Bassett
DPM: Mr. Tony Shaw



PdM Bridging
Vacant



PdM Armored Security Vehicles
LTC Steve Wall



PdM Combat Engineer/Material
Handling Equipment
LTC Nelson Glenn Kerley, Jr.



PdM Sets, Kits, Outfits & Tools
LTC Eric Rannow



PdM Force Sustainment Systems
LTC James Tuten



PdD Test, Measurement, &
Diagnostic Equipment
Mr. George Mitchell



PdM Petroleum & Water Systems
LTC Darrel Mayfield



PdD Horizontal Technology
Integration
Mr. Fred Williams



PdD Army Watercraft Systems
Ms. Shannon Tighe



PdD Non Standard Vehicles
LTC Graham Compton



PdM MRAP-ATV
LTC Kevin Geisbert



PdM Joint Logistics
LTC John O'Neill



PdM MRAP Vehicle Systems
LTC Andrew Oderkirk



PdM Assured Mobility Systems
Mr. Kenneth Wojcik



PdM (s) Joint Light Tactical
Vehicles



Mr. Mark McCoy (USA)



LtCol Michael Burks (USMC)



PdM Light Tactical Vehicles
Mr. Dennis Haag



PdM Medium Tactical Vehicles
LTC Shane Fullmer

PdM Heavy Tactical Vehicles
LTC Paul Shuler



Mission & Vision

MISSION

Conducts Life Cycle Management for the Army's Combat Support and Combat Service Support (CS&CSS) Portfolio; Supporting the Joint Warfighter Throughout the ARFORGEN Cycle by Developing, Producing, Fielding, Sustaining, Resetting and Integrating New Technologies Using a System of Systems Approach

VISION

**Equip Our Joint Warfighters with the World's Best Capability...
Today and Tomorrow... Using the DoD's Best Acquisition Workforce**

First to the Field... Last to Leave

PEO CS&CSS Portfolio

350+ Systems

Force Projection

Bridging

- Bridges / Bridge Erection Boat
- Bridge Transporters
- M9 Armored Combat Earthmover/Assault Breacher

Combat Engineer/Material Handling Equipment

- Container Handling Equipment
- Loaders
- Cranes
- Dozers
- Excavators

Force Sustainment Systems

- Cargo Airdrop Systems
- Combat Feeding Systems
- Field Service Systems
- Force Provider & Base Camps
- Shelter Systems & Heaters
- Mortuary Affairs Equipment

Petroleum & Water Systems

- Fueling Systems
- Water Systems

Army Watercraft Systems

- Causeway Systems
- Barge Derricks
- Tugs
- High Speed Vessels
- Lighterage

Joint Combat Support Systems

Sets, Kits, Outfits & Tools

- Sets, Kits & Outfits
- Engineer Combat Support Eq
- Diving Equipment
- Shelter Mounted Sets, Kits & Outfits
- Shop Set Equipment

Test, Measurement, & Diagnostic Equipment

- Integrated Family of Test Equipment (IFTE) At Platform Test Systems
- Common Embedded Diag.
- Calibration Sets (CALSETS)
- IFTE Off Platform Automatic Test Systems
- General Purpose Electronic Test Equipment (GPETE)
- Maintenance Support Device (MSD-V3)
- Next Generation Automatic Test Station (NGATS)

Non-Standard Vehicles

- Light Tactical Vehicles (LTV)
- Medium Tactical Vehicles (MTV)
- Sport-Utility Vehicles (SUV)
- Buses
- Trailers

Armored Security Vehicles

- Armored Security Vehicle

Mine Resistant Ambush Protected Vehicles

Assured Mobility Systems (Army Program)

- Buffalo (MPCV)
- JERRV/Cougar
- Husky (Vehicle Mounted Mine Detector (VMMD))
- RG31
- RG-33/Panther (MMPV)

MRAP All Terrain Vehicle (Joint Program)

- M-ATV

MRAP Vehicle Systems (Joint Program)

- Navistar MaxxPro
- GDLS RG-31
- BAE-TVS Caiman
- BAE RG-33 SOCOM
- BAE RG-33 SOCOM AUV
- BAE HAGA
- BAE RG-33L
- FPI Cougar (Cat I & II)
- FPI Buffalo

Joint Logistics & Sustainment (Joint Program)

- MRAP/M-ATV Logistics

Tactical Vehicles

Joint Light Tactical Vehicles

- Technology Development phase
- 3 prototype contracts
- Engineering & Manufacturing Development (EMD) Phase
- MS B-2011

Light Tactical Vehicles

- HMMWV Family of Vehicles
- UAH Safety Enhancements
- HEAT Trainer

Medium Tactical Vehicles

- Family of Medium Tactical Vehicles (FMTV)
- Tractor Trailer

Heavy Tactical Vehicles

- Heavy Expanded Mobility Tactical Truck (HEMTT)
- M915 Family of Vehicles & Trailers
- Heavy Equipment Transport (HETS)
- Container Handling Unit (CHU)
- Palletized Load System (PLS)
- Joint Recovery And Distribution System (JRADS)



FY11 Accomplishments

- **Managed a portfolio of over 350 systems (4 ACAT I)**
- **Produced approximately 28,042 tactical vehicles**
- **Fielded 24,365 systems**
- **Approved 156 Milestone Decision Actions**
 - Including 19 urgent materiel releases to the war
- **Provided responsive support to the Theater and Warfighter**
 - Maintained over 90% operational readiness rate
- **Continued fielding of safety and survivability improvements**
 - 2650 MATV underbody improvement kits for OEF,
 - 1,140 EFP kits produced for Caiman vehicles with over 798 installed in theater,
 - RPG Defeat nets and bar armor for RG-31s,
 - Armor kits for FMTVs and HEMTTs.





Current Thrusts/Focus

- **Support our soldiers in harms way**
- **Fleet/Portfolio Management**
- **Better Buying Power Initiatives**
- **Investment/Modernization and Sustainment Strategy**
- **Maintain competition to the maximum extent possible**
- **Assess the health of the industrial base**
- **Balance long-term goals and objectives and near-term challenges**
- **Serve as the focal point for life cycle management of our assigned systems**
- **Implement Continuous Process Improvements**
 - Make Fact based Decisions
 - Apply Good Systems Engineering and Lean/Six Sigma
 - Create a disciplined approached culture and workforce





OSD Better Buying Power Initiatives

- Dr. Carter Memo dated 3 Nov 10 focused on 5 Key Areas:
 - Targeting Affordability and Controlling Cost Growth
 - Promoting Real Competition
 - Incentivizing Productivity & Innovation in Industry
 - Reducing Non-Productive Process and Bureaucracy
 - Improving Trade Craft in Acquisitions of Services



THE UNDER SECRETARY OF DEFENSE
2010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

NOV 03 2010

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
DIRECTORS OF THE DEFENSE AGENCIES

SUBJECT: Implementation Directive for Better Buying Power – Obtaining Greater Efficiency and Productivity in Defense Spending

As detailed in my September 14, 2010 Guidance to acquisition professionals, I am seeking to obtain greater efficiency and productivity in defense spending by pursuing initiatives in the following five areas: (1) Target Affordability and Control Cost Growth; (2) Incentivize Productivity and Innovation in Industry; (3) Promote Real Competition; (4) Improve Trade/Craft in Services Acquisition; and (5) Reduce Non-Productive Processes and Bureaucracy.

This memorandum specifies actions that I expect you to execute either immediately or in the time frame indicated in order to implement the September 14 Guidance. Additional actions in support of these five initiatives will be developed over the next few weeks and months.

TARGET AFFORDABILITY AND CONTROLLING COST GROWTH

Mandate affordability as a requirement:

Effective November 15, 2010, I will implement affordability-based decision making at milestone decision points for all Acquisition Category (ACAT I) programs. Specifically, I direct the following actions:

Baseline Portfolio and/or Mission Area Definitions: As a basis for affordability analysis, you will use standard budget categories to the extent possible. Representative examples include: tactical wheeled vehicles, tactical aircraft, surface combatants, and communications satellites.

Milestone (MS) A: You will establish an affordability target to be treated by the program manager (PM) like a Key Performance Parameter (KPP). This affordability target (initially, average unit acquisition cost and average annual operating and support cost per unit) will be the basis for pre-MS B decision making and systems engineering tradeoff analysis. This analysis should show results of capability excursions around expected design performance points to highlight elements that can be used to establish cost and schedule trade space. The affordability target should be presented in the context of an analysis of the resources that are projected to be available in the portfolio(s) or mission area(s) associated with the program being considered for the MS A decision, assuming programmed defense budgets and force structures. In order to meet this requirement, you will provide a quantitative analysis of the program's portfolio or mission area across the life cycle of all products in the portfolio or mission area, including acquisition and operating and support budget suitability to absorb the proposed new start as a content change. Specifically, if introducing a new program into a portfolio or mission area, you should indicate what specific adjustments will be made to absorb the new program.



OSD Better Buying Power Initiatives

- **Target Affordability and Control Cost Growth**

- Mandate affordability as a requirement
- At Milestone A set affordability target as a Key Performance Parameter
- At Milestone B establish engineering trades showing how each key design feature affects the target cost
- Drive productivity growth through Will Cost/Should Cost Management
- Eliminate redundancy within warfighter portfolios
- Make production rates economical and hold them stable
- Set shorter program timelines and manage to them

- **Incentivize Productivity & Innovation in Industry**

- Reward contractors for successful supply chain and indirect expense management
- Increase the use of FPIF contract type where appropriate using a 50/50 share line and 120 percent ceiling as a point of departure
- Adjust progress payments to incentivize performance
- Extend the Navy's Preferred Supplier Program to a DoD-wide Pilot
- Reinvigorate industry's independent research and development and protect the defense technology base

- **Promote Real Competition**

- Present a competitive strategy at each program milestone
- Remove obstacles to competition
 - Allow reasonable time to bid
 - Require non-certified cost and pricing data on single offers
 - Require open system architectures and set rules for acquisition of technical data rights
- Increase dynamic small business role in defense marketplace competition

- **Improve Tradecraft in Services Acquisition**

- Create a senior manager for acquisition of services in each component, following the Air Force's example
- Adopt uniform taxonomy for different types of services
- Address causes of poor tradecraft in services acquisition
 - Assist users of services to define requirements and prevent creep via requirements templates
 - Assist users of services to conduct market research to support competition and pricing
 - Enhance competition by requiring more frequent re-compete of knowledge-based services
 - Limit the use of time and materials and award fee contracts for services
 - Require that services contracts exceeding \$ 1B contain cost efficiency objectives
- Increase small business participation in providing services

- **Reduce Non-Productive Processes and Bureaucracy**

- Reduce the number of OSD-level reviews to those necessary to support major investment decisions or to uncover and respond to significant program execution issues
- Eliminate low-value-added statutory processes
- Reduce by half the volume and cost of internal and congressional reports
- Reduce non-value-added overhead imposed on industry
- Align DCMA and DCAA processes to ensure work is complementary
- Increase use of Forward Pricing Rate Recommendations (FPRRs) to reduce administrative costs



PEO CS&CSS Summary

- **We are living in demanding times – doing the same with less**
- **Competing national priorities will force tough investment decisions**
- **Making significant progress in fleet management**
- **Seeking bold innovative solutions to ever evolving threats to U.S. Forces across the globe.**
- **Health and responsiveness of industrial base will be a focus**
- **Primary goal of ... Equipping Our Joint Warfighters with the World's Best Capability.**

Our “Circle of Friends” (TACOM, Materiel Enterprise, Industry Partners) Should Enable Cooperation, Communication, & Collaboration across the Life Cycle.



Force Projection



Mission

Providing the Warfighter with the most technologically-advanced, proven equipment to enable and support the projection of Forces worldwide.

Other Significant Procurement Efforts

- Modular Fuel Systems (MFS)
- JAB
- Fort Devens SIL
- 5K Fork Lift

Project Manager
COL R. Eric Fletcher

Deputy PM Acquisition: Mr. Steve Roberts

Product Managers

- **Bridging**
 - Mr. Donald Paskulovich - Acting
- **Combat Engineering, Material Handling Equipment**
 - LTC Nelson Kerley
- **Petroleum & Water Systems**
 - LTC Dariel Mayfield
- **Force Sustainment Systems**
 - LTC James Tuten

Product Directors

- **Army Watercraft Systems**
 - Ms. Shannon Tighe



Force Projection ~ Products

116 Programs



PD Army Watercraft Systems

12 Systems

115 Ton Barge Derrick (BD)
Landing Craft Mechanized (LCM 8) Mod II
Landing Craft Utility (LCU) 2000
Large Tug (LT) 128'
Logistics Support Vessel (LSV)
Small Tug 900 (ST900)
Roll-on/Roll-off Discharge Facility (RRDF)
Floating Causeway (FC)
Modular Warping Tug (MWT)
Causeway Ferry (CF)
Joint High Speed Vessel (JHSV) - ACAT ID ^
Joint Enabling Theatre Access Seaport of Debarkation ACTDA ^



PM Combat Engineer/Material Handling Equipment Systems

32 Systems

2.5 Cubic Yard Scoop Loaders ^
4.5 & 5.0 Cubic Yard Scoop Loaders ^
5K RTFL
Aviation Cranes (7.5T & SCAMP) ^
Family of Cranes (FOC-25T/50T ONS)
Add on Armor Program
Airborne Scraper & Water Distributor ^
All Terrain Crane (ATEC) & Pile Driving System ^
All Terrain Lifter, Army System (ATLAS) I & II
Asphalt Mixing Plant (AMP)
Backhoe Loader (BHL) ^
CE SLEP (Dozers, Graders, Heavy Scrapers)
Engineer Mission Modules - Water Distributor (EMM-WD)
Family of Dozers (FOD-T5 & T9) ^
Grader, Motorized, Heavy ^
High Mobility Engineer Excavator Type I (HMEE I) ^
Hydraulic Excavator Type I (HYEX)
Interim High Mobility Eng. Excavator (IHMEE)
Enhanced Rapid Airfield Construction Capability (ERACC)
Paving Machine, Bituminous
Rough Terrain Container Crane (RTCC)
Rough Terrain Container Handler (RTCH) ^
Skid Steer Loaders (SSL) Type I, II, III ^
TPE Refurbishment Program ^
Well Drilling Rig ^



PM Force Sustainment Systems

43 Systems

Advanced Low Velocity Airdrop System (ALVADS) ^
Army Space Heater (ASH) ^
Assault Kitchen (AK) ^
Authorized Stockage List Mobility System (ASLMS) ^
Battlefield 12-Head Shower
Containerized Batch Laundry (CBL) ^
Containerized Kitchen (CK) ^
DoD Combat Field Feeding Program (6.4/6.5) ^
Dual Row Airdrop System (DRAS) ^
Enhanced Container Delivery System (ECDS) ^
Extraction Parachute Jettison System (EPJS) ^
Family of Cargo Bed Covers (CBCs) ^
Food Sanitation Center (FSC) ^
Force Provider ^
Chaplaincy Logistical Support Package (CLSP)
Containerized Chapel (CC)
Containerized Latrine System (CLS)
Containerized Self-Serve Laundry (CSSL)
Containerized Shower System (CSS)
Electronic Shop Van (ESV) ^
Joint Precision-Guided Aerial Delivery Sys (JPADS) ^
Kitchen, Co. Level, Fld. Feeding - Enhanced (KCLFF-E)
Large Capacity Field Heater (LCFH) ^
Laundry Advanced System (LADS) ^
Lightweight Maintenance Enclosure (LME) ^
Low Cost Aerial Delivery System (LCADS) ^
Mobile Integrated Remains Collection System (MIRCS) ^
Mobile Kitchen Trailer-Improvement (MKT-I)
Modern Burner Unit (MBU) ^
Modular Command Post System
Modular General Purpose Tent System (MGPTS) ^
Mounted Water Ration Heater (MWRH)
Multi-Temp. Refrigerated Container System (MTRCS)
Refrigerated Container System (RCS) ^
Small Unit Shower (SUS)
Soldier Crew Tent (SCT)
Space Heater Arctic (SHA) ^
Space Heater Convective (SHC) 35K BTU ^
Space Heater Convective (SHC) 60K BTU ^
Space Heater Convective (SHC) 120K BTU ^
Space Heater: Large, Medium, Small ^
Tent Extendable Modular Personnel (TEMPER) ^
Thermoelectric Fan (TEF)
Ultra Lightweight Camouflage Net System (ULCANS) ^



PM Petroleum & Water Systems

15 Systems

Advanced Aviation Forward Area Refueling System (AAFARS) ^
Assault Hoseline System (AHS) ^
Forward Area Water Point Supply System (FAWPSS) ^
60K Fuel System Supply Point (FSSP) ^
120K Fuel System Supply Point (FSSP) ^
300K Fuel System Supply Point (FSSP) ^
800K Fuel System Supply Point (FSSP) ^
LHS Compatible Water Tank Rack (Hippo) ^
Modular Fuel System (MFS)
Lightweight Water Purifier (LWP) ^
Petroleum Quality Analysis System-Enhanced (PQAS-E) ^
Petroleum Test Kit (PTK) ^
Forward Area Refueling Equipment (FARE)
Tactical Water Purification System (TWPS) 1500 GPH
Unit Water Pod System (Camel) ^



PM Bridging

14 Systems

Assault Breacher Vehicle (ABV)
Armored Vehicle Launched Bridge (AVLB)
Bridge Adapter Pallet (BAP)
Bridge Erection Boat (BEB) ^
Common Bridge Transporter (CBT) ^
Dry Support Bridge (DSB) ^
Joint Assault Bridge (JAB) ^
Improved Boat Cradle (IBC)
Improved Ribbon Bridge (IRB) Bays ^
M9 Armored Combat Earthmover (ACE)
Line of Communication Bridge (LOCB) ^
Medium Girder Bridge (MGB)
Rapidly Emplaced Bridging System (REBS) ^
Standard Ribbon Bridge (SRB)



Army Watercraft Current Fleet

Lighters

119 Total Platforms

Floating Craft



Landing Craft Utility 2000
(LCU 2000)



Logistics Support Vessel
(LSV)



Landing Craft Mechanized
(LCM-8) MOD I and MOD II



Barge Derrick Crane
(BD 115)



Small Tug
(ST-900)



Modular Causeway System
(MCS)



Large Tug
(LT-800)



Army Watercraft Systems



- Lifecycle Challenges:

- Integration of service life extension program efforts for landing craft
- Logistics sustainment of obsolescent items across a global fleet
- Two-level maintenance Technical Manual (TM) development and possible conversion of more TMs to Inter-active Electronic Technical Manual (IETM) format

- Opportunities for Industry

- Major Service Life Extension Program (SLEP) planned for execution FY12-20.
- Product improvement and technical insertions planned for FY12-17.
- Potential Performance Based Logistics (PBL) opportunities.
- Sustain C4I Suite.



Combat Engineer & Material Handling Equipment

Combat Engineer Systems



HMEI-I



Skid Steer Loader



Heavy Grader



Lt Dozer (T-5)

Material Handling Equipment Systems



All Terrain Lifter Army System (ATLAS) II w/ Armor



All Terrain Lifter Army System (ATLAS) II



Rough Terrain Container Handler (RTCH)



Combat Engineer & Material Handling Equipment



- Lifecycle Challenges:

- Modify commercial systems to meet MIL-STD 209 tie-down provisions and C130 transportability.
- Provide propulsion systems to meet requirement to burn JP-8 (high sulfur) fuel with the migration to TIER 4a and TIER 4b engines.
- Apply simulators and training solutions to improve institution and unit-level training.
- Incorporating armor into commercial systems and minimizing the affect it has on the basic platform while protecting soldiers.
- Development of suitable and effective maintenance technical manuals at reasonable cost.

- Opportunities for Industry

- Upcoming acquisition of a new fleet of heavy cranes (50T lift class)
- Engineer Rapid Airfield Construction System. (1) blade leveling; (2) mobile lab; (3) mixer tiller to be procured competitively.
- Route Remediation Systems (1) portable concrete mixer; (2) concrete saw; (3) portable asphalt patcher; (4) wide area mower; (5) machine powered mower; (6) dust palliative dispenser.
- Vibratory plate compactor.
- Additional SLEP programs for Dual Steel Wheel Rollers, Vibratory Rollers and High Speed Compactor are planned.



Petroleum & Water Systems

Petroleum Systems



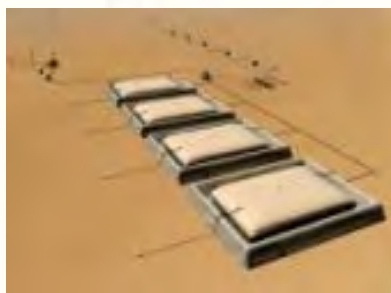
Tankrack Module (TRM)



**Pump Rack Module (PRM)
and Tankrack Module (TRM)**

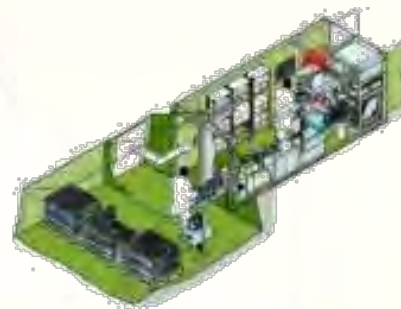


**Petroleum Quality Analysis
System-Enhanced (PQAS-E)**



**800K Fuel System
Supply Point (FSSP)**

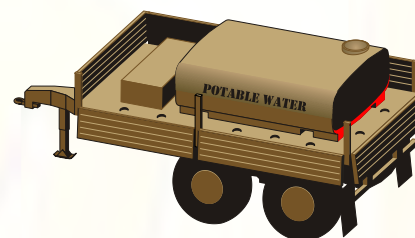
Water Systems



**Expeditionary Water Packaging
System (EWPS)**



**1500 Gallon Per Hour (GPH)
Tactical Water Purification
System (TWPS)**



**Water Pod System
(Camel II)**



**Load Handling Compatible
Water Tank Rack (Hippo)**



PM Petroleum & Water Systems



- Lifecycle Challenges:

- Advanced Pre-Treatment for Reverse Osmosis Water Purification Systems.
- Develop High Pressure Conduit for Distribution Systems (700 – 740 Working PSI) and High Pressure (700 – 740 Working PSI) Lay-Flat Hose for Fluid Transfer.
- Effect of Dwindling Budgets on Contractor Interest in PM PAWS Systems.

- Opportunities for Industry

- Competitive Procurements of Systems (Unit Water Pod System (Camel II), Modular Fuel System (MFS), and Load Handling System Compatible Water Tank Rack (Hippo)).
- RDT&E Partnerships to Develop Future Systems to Meet Capabilities Gaps.
- RESET of Systems Beyond Depot Capabilities.



Bridging Systems



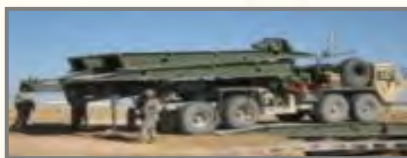
Wolverine Heavy Assault Bridge



Joint Assault Bridge



Armored Vehicle Launch Bridge (L)



Rapidly Emplaced Bridge



Assault Breacher Vehicle



Armored Combat Earthmover



Line of Communication Bridge



Medium Girder Bridge (L)



Bailey Bridge (L)



Dry Support Bridge



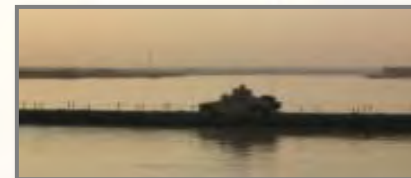
Common Bridge Transporter



Bridge Erection Boat (L)



Improved Ribbon Bridge



Standard Ribbon Bridge (L)

(L) Legacy Systems

Bridging Systems

- Lifecycle Challenges:

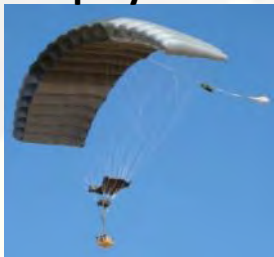
- Methods/technologies for reduced weight and increased load bearing capability of bridge structure.
- Methods/technologies for monitoring the health of bridging (Service life monitoring) and extend the useful life of bridging systems.
- Methods/technologies for improved performance of Bridge Erection Boat (BEB) engines with JP8.
- Methods/technologies for improved performance of Heavy Assault Bridge/Launch system.
- Supply Cycle – Spare Parts availability/turn around time for low density systems.

- Opportunities for Industry:

- Introduce technical innovations and advanced armor technology into existing and next generation bridging systems to reduce weight and increase performance.
- Future Programs:
 - Multi-functional or Multi-purpose bridge system encompassing all three gap crossing capabilities: Assault, Tactical, and Line of Communication Bridging
 - Light Assault Gap Crossing consisting of three systems: Footbridge, IBCT Assault Bridging, and Assault Rafting
 - Joint Assault Bridge

Force Sustainment Systems

**Joint Precision
Airdrop System – 2K**



Shelter Systems



Containerized Kitchen



Assault Kitchen



**Low-Cost Airdrop System /
Low-Cost Low Altitude**



Force Provider



**Mobile Integrated
Remains Collection System**



Force Sustainment Systems

Fort Devens Base Camp Integration Lab





Force Sustainment Systems



- Lifecycle Challenges:

- Develop and integrate low altitude aerial delivery technologies for low velocity platform airdrop to improve reliability and survivability, and reduce rigging/de-rigging time.
- Develop method to safely and efficiently manage, handle, treat and dispose of the waste stream (liquid and solid).
- Develop advanced insulation and shading capabilities and thermally efficient fabric shelters to reduce heating and cooling demands on expeditionary shelters

- Opportunities for Industry:

- Advanced Insulation, Shading and Environmental Control Capabilities to Reduce Heating and Cooling demands on Expeditionary Shelters (FY12)
- Expeditionary Waste Disposal, Water Reduction, Wastewater Reutilization, and Waste-to-Energy Systems (FY12)
- Smart Power Distribution and Alternative Renewable Power Sources for Expeditionary Base Camps (FY1)





Joint Combat Support Systems



Mission

- Develop and Acquire Joint Combat Support Systems for Expeditionary Forces

Vision

- Support the Joint Warfighter across the spectrum of conflict

Project Manager
COL William Boruff

Deputy PM Acquisition: Mr. Dennis Mazurek

Product Managers

- **Armored Security Vehicles**
 - LTC Steven T. Wall
- **Sets, Kits, Outfits and Tools**
 - LTC Eric C. Rannow

Product Directors

- **Non Standard Vehicles**
 - LTC Graham J. Compton
- **Test, Measurement & Diagnostic Equipment**
 - Mr. George J. Mitchell
- **Horizontal Technology Integration**
 - Mr. Fred A. Williams



Joint Combat Support Systems ~ Products and Process



Product Manager Armored Security Vehicle (PdM ASV)

Mission: Develop, produce, field and sustain the Armored Security Vehicle to an Expeditionary Force.



M1117
Armored
Security
Vehicle



APC w/
Turret



APC w/
OGPK



Ambulance



Product Manager Sets, Kits, Outfits and Tools (PdM SKOT)

Mission: To provide the right SKOs and tools that are high quality, durable, reliable, modernized, and deployable to the soldiers at the right time, in the right place, at the right price.



Ordnance
Systems



Engineer
Systems



Fire Fighting
& Diving
Systems



Transformation
& Product
Support



Product Director Non Standard Vehicles (PdD NSV)

Mission: PD NSVs mission is to provide Life-Cycle Management of Light Tactical Vehicles, Medium Tactical Vehicles, SUVs, and Bus fleets to the Afghan National Security Forces (ANSF).



Light
Tactical
Vehicle



Medium
Tactical
Vehicle



Sports
Utility
Vehicle



Bus



Product Director Test, Measurement & Diagnostic Equipment (PdD TMDE)

Mission: Manage the acquisition and fielding of General Purpose, Automatic and Manual Test, Measurement, and Diagnostic Equipment, and Calibration Standards while providing superior combat systems support materiel to accomplish its maintenance during peace and war.



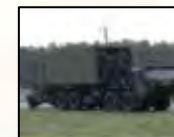
At-Platform
Automatic Test
Systems
(APATS)

Calibration Sets
(CALSETS)



Test Equipment
Modernization
(TEMOD)

Off-Platform
Automatic Test
Systems
(OPATS)



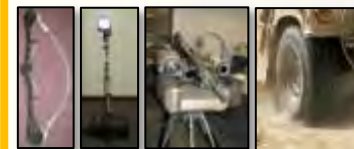
Product Director Horizontal Technology Integration (PdD HTI)

Mission: Conduct periodic technology demonstrations and relevant special projects to identify industry's investments in advanced component technologies for potential improvement of joint ground systems.



Joint Ground Systems Enterprise Market Investigation Process (EMIP)

The joint ground systems Enterprise Market Investigation Process (EMIP) is a multi-phased and ongoing type of market research sponsored by the Program Executive Office Combat Support & Combat Service Support.



Market research – not
source selection

Joint Combat Support Systems ~ Products

87 Systems



PdM Sets, Kits, Outfits and Tools (SKOT)

56 Systems

Fire Fighting, Diving, Boats & Motors

1. Firefighter Individual Requirements Equipment Set (FIRES)
2. Fire Protection Equipment Set (FPE)
3. Legacy 7 Man boats w/applicable motors
4. Breakaway Divers Air Stowage System (BDASS)
5. Closed Circuit SCUBA Set (CCS)
6. Containerized Divers Recompression Chamber (CDRC)
7. Deep Sea Diving Set (DSS)
8. Diver Underwater Construction Set (UCS)
9. Diver Underwater Photo Support Set (DUPSS)
10. Family of Breathing Air Compressors
11. Family of Boats and Motors 3/7/15 man boats w/applicable motors
12. Open Circuit SCUBA Set (OCS)
13. Diver Propulsion System
14. SCUBA Support Set (SSS)
15. Surface Supplied Diving Set
16. Underwater Construction Set

Ordnance

1. Armament Repair Shop Sets (ARSS)
2. Forward Repair System (FRS)
3. Hydraulic System Test & Repair Unit (HSTRU)
4. Metal Working & Machining Shop Set (MWMSS)
5. Standard Automotive Tool Set (SATS)
6. SATS Field Maintenance Module 3 (FMM3) Fire Suppression Refill Station
7. Shop Equipment, Contact Maintenance (SECM)
8. SECM - Next Generation

Engineer

1. Ammunition Tool Kit
2. Artillery Shop Set
3. Asphalt Test Sets
4. Automotive Sustainment & Maintenance Module (ASMM)
5. Carpenter's Supplemental Tool Kit (CSTK)
6. Carpenter's Tool Kit (CTK)
7. Concrete Test Set
8. Cutting & Welding Shop Set #5
9. Demolition Set (Explosive, Electric)
10. Electronic System Maintenance Tool Kit
11. Electrician's Tool Kit

Engineer Cont.

12. Family of Detainee Processing & Evidence Collection Kit (FoDPECK)
13. Family of Lighting Systems (FOLS)
14. Full Tracked Vehicle Set
15. General Purpose Survey Set (GPSS)
16. Hydraulic Electronic Pneumatic Petroleum Operated Equipment (HEPPOE)
17. Hazard Identification and Marking Set
18. Instrument & Fire Control Repair Shop Set
19. Mason & Concrete Tool Kit
20. Measuring Machinist Tool Set
21. Pioneer Land Clearing & Building Erection
22. Pioneer Platoon Set
23. Pioneer Sapper Set
24. Pioneer Support Set
25. Plumbers Tool Kit
26. Small Arms Shop Set (SASS)
27. Soil Test Sets
28. Spare Parts Storage Cabinet Set
29. Urban Operations Tool Set Platoon Set (UOpPS)
30. Urban Operations Tool Set Squad Set (UOpSS)
31. Vertical Skills Engineer Construction Kit (VSECK)
32. Material Testing Kit

*Blue text indicates a New Start system



PdD Armored Security Vehicles (ASV)

2 Systems

ASV
M1200 - Armored Knight



PdD Non-Standard Vehicles (NSV)

4 Systems

Light Tactical Vehicle - 4 variants
Medium Tactical Vehicle - 6 variants
Sport Utility Vehicle - 1 variant
BUS - 2 variants



PdD Test, Measurement, and Diagnostic Equipment (TMDE)

25 Systems

Calibration Sets (CALSETS)

CALSET 2000

CALSETS Equipment Modernization*

IFTE At Platform Automatic Test Systems

Maintenance Support Device (MSD) V2

MSD V3*

Wireless Internal Combustion Engine (ICE) Diagnostic Kit*

IFTE Off Platform Automatic Test Systems

Base Shop Test Facility Version 5 (BSTF (V) 5)

Next Generation Automatic Test Station (NGATS)

General Purpose Electronic Test Equipment (GPETE)

TS-4530/UPM Radar Test Set Upgrade to Mode 5

SG-1364/U Signal Generator (Low Frequency) *

SG-1366/U Signal Generator (Microwave)*

TS-4544/U Telecommunication System Test Set*

AN/PRM-36 Radio Test Set*

AN/GSM-437 Multimeter *

ME-572/U Ammeter

Oscilloscope (600 MHz)*

RF Power Test Set*

Radio Test Set (Bench Level)*

Oscilloscope (100 MHz)*

Spectrum Analyzer*

Frequency Counter*

Pulse Generator*

Radar Test Set (Bench Level)*

Transmission Test Set*

Optical Time Domain Reflectometer*

*Opportunity for Joint or Expanded Joint Program



Product Director, Non-Standard Vehicle (PdD NSV)



- Lifecycle Challenges:

- Need to address disparate approach to Maintenance by Afghanistan National Security Forces (ANSF); ANA (Army) is organic centric; ANP (Police) is CLS centric
- Need to address training – Training the ANSF in Operator and Maintenance tasks is proving to be challenging due to their low literacy rate and their rapid personnel turn-over (two-years)
- Need to address immature Supply Chain Management System
- Need to mitigate pilferage which is compromising vehicle readiness and accountability

- Opportunities for Industry:

- Development of simplified Operator and Maintenance Manuals for ANSF. Focusing on tailored, highly graphic manuals.
- Integration in ANSF Supply Chain Management solutions, to include RECAP facility and CLS
- Contractor personnel for PD NSV Forward positions.



- Lifecycle Challenges:

- Need to continue developing Fire Suppression Refill and Fire Protection Equipment capabilities to support soldiers and vehicles in all environments
- Need to support all services through the development of Joint applicable SKOTs
- Commerciality of Life Support Gear and Specialty Equipment dictate that they be replaced periodically (examples: Inflatable Boats, Diving, Fire Fighting and Suppression gear/equipment, due to its nature, is required to be replaced every 5 years).
- The Warfighter Field Level Maintenance community is significantly challenged to effectively manage, maintain and sustain platform specific Special tools (ST) (i.e. Accountability, Transportability and Logistics Footprint reduction).

- Opportunities for Industry:

- Procure special tools kits with in-transit/soldier portable cases and trailer/vehicle mounted and/or containerized solutions
- Design and develop an Allied Trades Metal Working and Machining Shop Set (MWMSS) used to fabricate and/or repair parts, mechanisms, tools, and machinery.
- Design and develop a Family of Armament Repair Shop Sets (FARSS) to update the legacy armament tools sets and kits, taking advantage of technology advancements and the incorporation of enhanced tool warranties.
- Research new fabric materials which are stronger and lighter than present personal protective gear in support of firefighters
- Design and develop a family of high pressure breathing air compressors with an air system monitor for instant contamination warning
- There is a requirement to develop Berry Amendment compliant 3, 7 and 15 man inflatable boats
- There is a necessity to design and develop single fuel motors to support the 7 man, 15 man, and rigid inflatable boats.
- Design and develop Family of Vertical Skills Engineer Construction Kits (VSECK). The VSECK will support all anticipated operational conditions and have utility in Joint, Coalition, Humanitarian Support, Disaster Relief, or Homeland Support Security deployments.
- Procure and kit Critical Life Support equipment for Engineer and/or Special Forces Divers (i.e. Deep Sea Set, Closed Circuit Scuba Set and Diver Propulsion System)
- Design and Develop Underwater Construction Sets to support Engineer Dive Teams.



Product Director, Test, Measurement & Diagnostics Equipment (PdD TMDE)



- Lifecycle Challenges:

- Design and develop a Joint Service Common Electro-Optic (EO) Test Asset for the Next Generation Automatic Test Station (NGATS)
- Release solicitation in 1QFY12 for competitive production contract to manufacture Smart Wireless Internal Combustion Engine (SWICE) kit via Government owned Technical Data Packages (TDP)
- Release solicitation in FY12 for competitive full rate production contract to manufacture NGATS
- Issue Letter Request for Bid Samples in 3QFY12 and subsequently contract award of the 600 MHz Oscilloscope Replacement; additional projects include replacements for the RF Power Test Set, Bench Level Radio Test Set and 300 MHz Oscilloscope
- Procure AN/GSM-421A(V2); Scope Calibrator, Mass Balance Sets, H-Frames and Pumps for AN/GSM-286&287 in FY12

- Opportunities for Industry:

- Design and develop a Joint Service Common Electro-Optic (EO) Test Asset for the Next Generation Automatic Test Station (NGATS)
- Release solicitation in 1QFY12 for competitive production contract to manufacture Smart Wireless Internal Combustion Engine (SWICE) kit via Government owned Technical Data Packages (TDP)
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- Procure AN/GSM-421A(V2); Scope Calibrator, Mass Balance Sets, H-Frames and Pumps for AN/GSM-286&287 in FY12





Enterprise Market Investigation Process



- **EMIP**
 - A PEO Combat Support & Combat Service Support sponsored process of periodic technology demonstrations and assessments that educate government representatives in advanced technologies at the component or subsystem (not end item) level.
 - An opportunity for vendors to identify to the government industry's investments in advanced component technologies for potential insertion into and improvement of joint ground systems.
 - Covers ground system portfolios managed by PEO CS&CSS, PEO Ground Combat Systems, the USMC PEO Land Systems, and the USMC PM Light Armored Vehicles.
 - Emphasizes relatively mature technology – a technology able to be demonstrated in a relevant environment, and new technologies that are potential improvements to existing military equipment.
- **[Http://www.peocscss.army.mil/EMIP.html](http://www.peocscss.army.mil/EMIP.html)**
 - Download EMIP submission package (technology application idea (TAI) and demonstration plan).
 - Submit TAI, demonstration plan, and photo of technology to usarmy.detroit.peo-cs-css.mbx.truck-tech@mail.mil.
- **EMIP demonstrations**
 - Typically conducted three times a year: April, July, and October.
 - Early submission is encouraged.

Technologies submitted: 747 January 2005
Technologies demonstrated: 393 through July 2011



EMIP is a form of market research – not a request for proposal, a source selection, a program, or an acquisition office.



Mine Resistant Ambush Protected Vehicles



Vision

JPO MRAP rapidly fields survivable, mobile, multi-mission vehicles to the Joint Force to meet urgent operational requirements in theater. The joint urgent operational need statement (JUONS) called for vehicles capable of mitigating or eliminating the primary kill mechanisms of mines and improvised explosive devices (IEDs).

JPO Deputy Program Manager/ Project Manager

Mr. Carl Owens

Deputy PM Acquisition: COL Jeff Carr

Product Managers

- **Assured Mobility Systems (AMS)**
 - Mr. Kenneth Wojcik
- **Logistics & Sustainment**
 - LTC John O'Neil
- **MRAP – All Terrain Vehicle (M-ATV)**
 - LTC Kevin Geisbert
- **MRAP Vehicle Systems**
 - LTC Andrew Oderkirk

MRAP ~ Vehicles

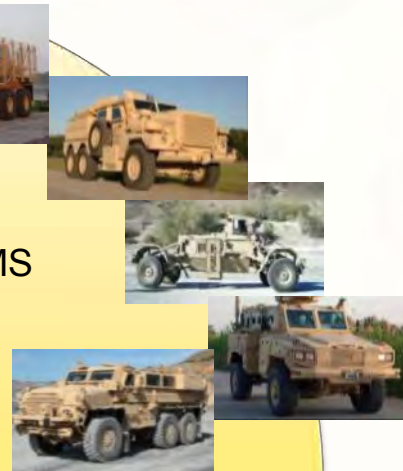
50 Programs

57 ONS 13 Systems

- Navistar MaxxPro
- BAE-TVS Caiman
- FPI Cougar
- BAE SOCOM (RG-33)



PdM AMS



- Buffalo
- Cougar/JERRV
- Husky (VMMD)
- RG31
- Panther/MMPV

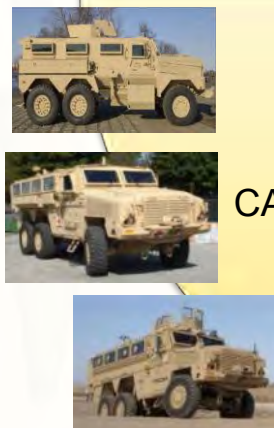


37 Systems

51 ONS

16 JUONS

- BAE HAGA
- BAE RG-33L
- FPI Cougar



CAT II

CAT III



- FPI Buffalo



- Oshkosh M-ATV



- Navistar MRV

MRAP~ Variant Overview

PM MRAP

CAT I

Navistar MaxxPro



BAE-TVSCaiman



FPI Cougar



BAE SOCOM (RG-33)



CAT II

BAE HAGA



BAE RG-33L



FPI Cougar



CAT III

FPI Buffalo



M-ATV

OshKosh M-ATV



Wrecker

Navistar MRV



PdM AMS

Buffalo (MPCV)



Cougar (JERRYV)



Husky (VMMD)



RG31



Panther (MMPV)



MRAP ~ Products

50 Programs



Mine Resistant Ambush Protected Vehicles (MRAP)

37 Systems

MRAP All-Terrain Vehicle (M-ATV)
MRAP All-Terrain Vehicle (M-ATV) SOCOM
MRAP Recovery Vehicle (MRV)
MRAP Vehicle, CAT I, MaxxPro (Base)
MRAP Vehicle, CAT I, MaxxPro MEAP Protected
MRAP Vehicle, CAT I, MaxxPro Plus (EFP Protected)
MRAP Vehicle, CAT I, MaxxPro Plus Ambulance
MRAP Vehicle, CAT I, MaxxPro Dash
MRAP Vehicle, CAT I, MaxxPro Dash ISS
MRAP Vehicle, CAT I, MaxxPro Dash ISS Ambulance
MRAP Vehicle, CAT II, MaxxPro
MRAP Vehicle, CAT I, Caiman (Base)
MRAP Vehicle, CAT I, Caiman Plus (EFP Protected)
MRAP Vehicle, CAT I, Caiman Plus (EFP Protected) C2OTM
MRAP Vehicle, CAT I, Caiman Multi-Terrain Vehicle (CMTV)
MRAP Vehicle, CAT I, RG-33 USSOCOM
MRAP Vehicle, CAT I, RG-33 USSOCOM Plus
MRAP Vehicle, CAT I, RG-33 USSOCOM Plus ISS
MRAP Vehicle, CAT II, Joint Explosive Ordnance Disposal Rapid Response Vehicle (JERRV)
MRAP Vehicle, CAT I, Cougar A1
MRAP Vehicle, CAT I, Cougar A2
MRAP Vehicle, CAT I, Cougar A1 ISS
MRAP Vehicle, CAT I, Cougar A2 ISS
MRAP Vehicle, CAT I, Cougar HEV (Hardened Engineer Vehicle)
MRAP Vehicle, CAT II, Cougar A1
MRAP Vehicle, CAT II, Cougar A2
MRAP Vehicle, CAT II, Cougar A1 ISS
MRAP Vehicle, CAT II, Cougar A2 ISS
MRAP Vehicle, CAT II, Cougar HEV (Hardened Engineer Vehicle)
MRAP Vehicle, CAT II, RG-33L (Base)
MRAP Vehicle, CAT II, RG-33L Plus (EFP Protected)
MRAP Vehicle, CAT II, RG-33 Heavily Armored Ground Ambulance (HAGA)
MRAP Vehicle, CAT II, RG-33 Heavily Armored Ground Ambulance (HAGA) Plus
MRAP Vehicle, CAT III, Buffalo A1
MRAP Vehicle, CAT III, Buffalo A2
MRAP Vehicle, CAT II, RG-33 USSOCOM AUV (Armored Utility Vehicle)
MRAP Vehicle, CAT II, RG-33 USSOCOM ARV (Armored Recovery Vehicle)



PdM Assured Mobility Systems (AMS)

13 Systems

Buffalo Mine Protected Clearance Vehicle A0, A1
IVMMD Mine Protected Vehicle MK2
JERRV EOD Vehicle
RG31A1 Mk5
RG31A2 Mk5E
RG31A3 SOCOM
Medium Mine Protected Vehicle (MMPV) (POR)
Buffalo A2 Mine Protected Clearance Vehicle (MPCV) (POR)
Vehicle Mounted Mine Detector Vehicle MK3 (VMMD) (POR)
Buffalo Surrogate Training System
JERRV Surrogate Training System
Route Clearance Team Training System
Vehicle Mounted Mine Detector Training System

Joint Programs

*Opportunity for Joint or Expanded Joint Program



Focus Areas for MRAP



- Program:
 - Sustain support to current operations
 - Identify those tasks needed to “clean up the battlefield” and transition to program of record
 - Address emerging threats
 - Structure for post production environment
 - M-ATV
 - Initiating Army Sustainment Readiness Review (SRR)
- Changed Conditions in CENTCOM AOR Drive New Requirements:
 - Requirement for enduring, longer-term sustainment effort in Afghanistan
 - Near-term ending of MRAP production, completing fielding
 - The continued robustness of parts support
 - Retrofits, retrogrades and Battle Damage and Repair (BDAR)



MRAP ~ Challenges

- Operations in the OEF
- Future use of the MRAP Fleet
- Multiple configurations when used / for supporting the long term
- Processing contracting actions at the pace of current operations



Space, weight, heat, power, cost!





MRAP ~ Opportunities for Industry



- Reset/Recap
- Conversion Programs
- More robust components
- Decrease weight, increase survivability (technology advances)
- Multi-threat survivability solutions
- Lifecycle sustainment
- Decreasing manufacturing costs (spares)
- Spare parts commonality
- Recovery and Ambulance variants



Tactical Vehicles



Mission

The lifecycle management of light, medium and heavy tactical vehicles & trailers enabling the Expeditionary Ground Force

Other Significant Procurement Efforts

- ◆ Safety Enhancements
- ◆ Add-on-Armor/GPK

Project Manager
COL Dave Bassett

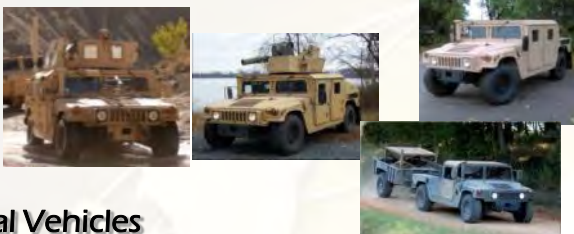
Deputy PM Acquisition: Mr. Tony Shaw

Product Managers

- **Joint Light Tactical Vehicles**
 - Mr. Mark McCoy (USA)
- **Light Tactical Vehicles**
 - Mr. Dennis Haag
- **Medium Tactical Vehicles**
 - LTC Shane Fullmer
- **Heavy Tactical Vehicles**
 - LTC Paul Shuler



4CSL PMs – Approximately 240K Systems Fielded



Light Tactical Vehicles

- 31 systems/variants (4 Trailers)
- ~170K systems fielded
 - HMMWV Family of Vehicles
 - UAH Safety Enhancements
- Light Tactical Trailer (LTT) – 485/month
- M200A1 Chassis Trailer
- M1061A1 Chassis Trailer
- Light Engineer Utility Trailer (LEUT)

700 new HMMWVs /
Month, for Other Svcs &
FMS, going to
400/month in Nov 11



Medium Tactical Vehicles

- 17 truck variants (3 Trailers)
- Over 57,886 systems fielded

- Family Medium Tactical Vehicles (FMTV)
- High-Mobility Artillery Rocket System (HIMARS)
- Load Handling System (LHS)

825 max Sys/Month



Heavy Tactical Vehicles

- 33 variants (8 Trailers)
- Over 33K systems fielded
 - Heavy Expanded Mobility Tactical Truck (HEMTT)
 - Palletized Load System (PLS)
 - M915 Family of Vehicles & Trailers
 - Trailer (HEMAT)
 - Heavy Equipment Transport (HETS)
 - Container Handling Unit (CHU)

1,409 Sys/Month



Joint Light Tactical Vehicle

- 7 variants with trailer
- Preparing for entry into MS-B

Combat Tactical Vehicle

- General Purpose- 4 seat
- Special Purpose- 4 seat (Unit Leaders and Functional Staff)
- Heavy Weapons Carrier- 4 Seat (Wpns Co, MP, Mounted Patrol; Convoy Escort)
- Close Weapons Carrier- 4 Seat (TOW/Saber Carrier)
- Communication on the Move (C2OTM)

Combat Support Vehicle

- Utility Vehicle- 2 seat
- Shelter Vehicle- 2 seat (Standard Shelters)



TWV Competitive Actions



- JLTV – RFP Release Dec 11
- MECV – RFP Release Date Nov 11
- HTV B-Kits
 - Small Business Set Aside
 - RFP Release Nov 11
- MTV B-Kits
 - Small Business Set Aside
 - RFP Release Dec 11
- HTV – Fuel Tank Fire Suppression
 - RFP Release Dec 11
- MTV – Fuel Tank Fire Suppression
 - RFP Release Nov 11
- Flatracks
 - Small Business Set Aside
 - RFP Release Dec 11
- M1061 Trailer
 - RFP Release Nov 11
- M200 Trailer
 - RFP Release Dec 11





Light Tactical Vehicles



- Army has met requirement for HMMWV; remaining production for other services and FMS, into Aug 12.
- JLTV is the Joint program to modernize the LTV fleet
 - 3 Oct Draft RFP Release, 11-13 Oct Industry Day
 - Dec 2011 - Final RFP Release (Jan 2012 Proposals Due)
 - May 12 Contract Awards
 - http://contracting.tacom.army.mil/majorsys/jltv_emd/jltv_emd.htm
- Existing HMMWV Fleet in sustainment - RECAP/RESET
 - Restart of Depot Recap program for UAH at RRAD and LEAD
- Competitive RECAP – MECV: Complimentary Program with JLTV – including timeline
 - Phase I: Request for Proposal (RFP) Schedule
 - Draft Phase I RFP released Sep 11, 7 Oct 11 Industry Day
 - Nov 11 Final Phase I RFP (Jan 12 Proposal Due)
 - Contract award(s) (up to three) in May 12
 - <http://contracting.tacom.army.mil/majorsys/mecv/mecv.htm>
- Competitive Award Light Tactical Trailer program:
 - Delivery Order was awarded 20 Sep 11 for 1598 trailers using MADO (competitive) procedures.
 - The Government saved over \$1.8M.
- Solicitation for Total Package Fielding Services
 - Issued under Omnibus III Blanket Purchasing Agreement in 1Q FY12
 - Supports recapped UAHs for de-processing, tech inspections, accountability and hand-off, fielding, and post-fielding activities
 - Base year requirement for ~8000 UAHs





Joint Light Tactical Vehicle - Sticker



JLTV

4 DR GP VEHICLE

Payload-Ton Miles Per Gallon

10 to 13



See the FREE Fuel Economy Guide at dealers or www.fueleconomy.gov

PARTS CONTENT
INFORMATION

100 %
Assembled in
The USA

Options:

- Integrated Starter / Generator
- Suspension Upgrade
- Drivers Display
- Cmd Display
- Additional B-Kit: EFP, RPG

Protection Level

- Integral Small Arms Ballistic protection
- Integral Transparent Armor (small arms ballistic protection)
- Scalable B Kit: 1x UB; 2x UW; Artillery Overhead
- Roof Crush protection to 150% GVW

<u>A-Cab</u>	<u>B-Kit Underbody</u>
Small Arms	Army - 1X USMC - .5X

Acquisition Strategy

- Rapid, 33 month EMD phase
- 15 months to integrate and deliver
- 14 months to test and evaluate
- LRIP production by FY15

Technical Features

- 275-340 HP Diesel Engine (4 Cyl or 6 Cyl)
- 6-Speed Automatic Transmission
- Independent Four-Corner Suspension (passive or semi-active)
- Air-activated Hydraulic Anti-lock Disc Brake System with controlled trailer braking and Traction Control
- Starter & Alternator powertrain (15 kW On-Board Power Generation)
- Silent Watch battery (2 hours of silent watch)
- Curb Weight: 14,300 lbs
- GVW: 20,000 lbs
- GVWR: 21,500 lbs

Exterior Features

- Tubeless radial tires (365 mm – 395 mm width, with 20"-22.5" rims)
- 30-40 gal fuel tank
- Pintle for towing JLTV trailer or legacy trailers (HMMWV / FMTV)
- External NATO Slave Cable Receptacles
- LED Headlights
- Exterior lighting package (including Blackout Mode)
- Fording to 30"

Manufacturing Target Cost
\$250K plus B-Kit Armor



Safety Features

- 18"-24" ground clearance
- Electronic Stability Control
- Automatic Fire Extinguishing System [AFES] (engine & crew compartments)
- Combat-locking Doors
- Central Tire Inflation System (CTIS)
- Multiple occupant egress paths
- Exterior provisions to accept EFP and RPG kits

Interior Features

- 3,500 lbs Payload Capacity with 60 cu ft of additional stowage space for mission payload
- Accommodates 5th-95th percentile combat-equipped occupants
- Extreme climate condition HVAC controls
- Noise-reducing crew compartment
- Spall protection
- Net-Ready Integrated C4I Suite

1X PROTECTION, 10,000 POUNDS LIGHTER THAN MATV
NETWORK CAPABLE
MOBILITY RESTORED

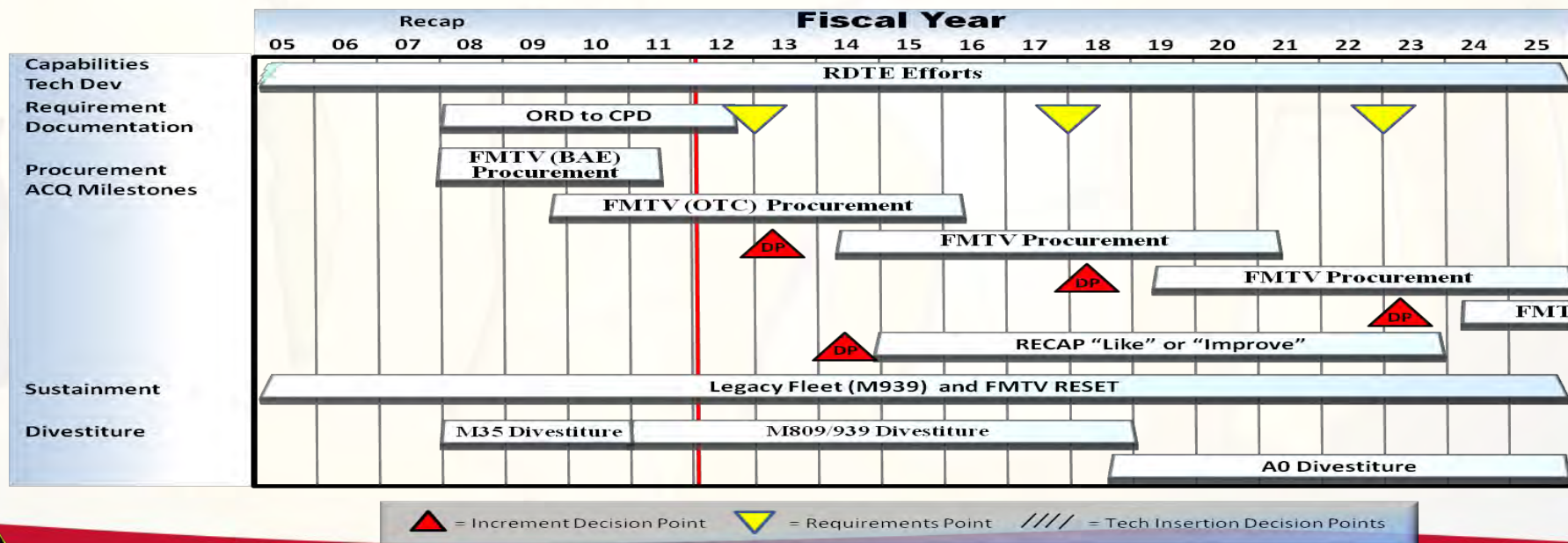


FMTV Improvement Priorities

- **Soldier Protection / Survivability**
- **Fuel Economy**
- **Component Reliability**
 - **Same Form / Fit / Function**



Schedule





HTV Contracting Strategies



- FHTV III
 - FHTV III 2 year extension in process for FY12 thru FY13
- Family of Heavy Tactical Vehicles IV
 - Intent is for Full and Open competition, 5 year requirement contract
 - Sources sought
 - Draft schedule:
 - RFP Release 1st QTR FY13
 - Contract Award 4th QTR FY13
 - Contracting Ordering Period: OCT 2013-OCT 2018
 - Period of Performance: OCT 2013-OCT 2019
 - Systems included:
 - New production of HEMTT, PLS, PLS-T and HET
 - RECAP of HEMTT, PLS all models





TACOM LCMC

Integrated Logistics Support Center

Advanced Planning Brief to Industry

-28 OCT 2011-





Dan Lorentz
Director, Deployment Equipment Product Support Integration
Directorate

28 October 2011



CS&CSS Readiness & Sustainment Managed Systems



- HMMWV
- ASV
- Trucks
- Trailers
- Construction
- M9 ACE
- Material Handling
- Watercraft
- MRAP
- Water and Petroleum Systems
- Tire Assembly Systems
- Bridging
- Trains
- Tool Sets, Kits, and Outfits (SKOs)
- Diving Equipment
- Assured Mobility Systems
- IED Defeat/Protect Force Systems
- Rail





Combat Support & Combat Service PMs/ILSC PSIDs



COL ROBERT FLETCHER
PROJECT MANAGER
FORCE PROJECTION

COL DAVID BASSETT
PROJECT MANAGER
TACTICAL VEHICLES

COL WILLIAM BORUFF
PROJECT MANAGER
JOINT COMBAT SUPPORT
SYSTEMS

MR. CARL OWENS
PROJECT MANAGER
MRAP



DANIEL L. LORENTZ
DIRECTOR
DEPLOYMENT EQUIPMENT
PSID

ANTHONY WARRIOR
DIRECTOR
TACTICAL WHEELED VEHICLES
PSID

GLORIA WOOTEN-
STANDARD
GROUP LEADER
TOOLS GROUP

ROGER OBEN
DIRECTOR
MINE RESISTANT VEHICLE
PSID



ILSC

Combat Support and Combat Service Support R&S Directorate



Tactical PSID

- Light Tactical Vehicles
- Medium Tactical Vehicles
- Heavy Tactical Vehicles
- Armored Security Vehicles
- Tactical Wheeled Trailers

**Spare Parts
Obligations**
FY12 \$ 195.6M
FY13 \$ 213.2M

RESET/RECAP
FY12 \$ \$1.074B

Deployment PSID

- Army Watercraft Systems
- Combat Engineer/Materiel Handling Equipment
- Petroleum & Water Systems
- Bridging

**Spare Parts
Obligations**
FY12 \$42M
FY13 \$45M

RESET/RECAP
FY12 \$ 99M

Tools PSID

- RESET
- Sets, Kits, Outfits, & Tools
- Mobile Parts Hospital (MPH)
- Explosive Ordnance Disposal (EOD) Technical Detachment
- Special Ops Forces Demo Kits
- Test, Measurement & Diagnostics Equipment Support
- Warranty Replacement Store

**Spare Parts
Obligations**
FY12 \$57M
FY13 \$60M

RESET/RECAP
FY12 \$14.5 M

Mine Resistant Vehicle PSID

- Route Clearance Vehicles
- Mine Resistant Ambush Protected (MRAP) Vehicles
- Improvised Explosive Device Defeat/Protect Force (IEDD/PF)

**Spare Parts
Obligations**
FY12 \$93M
FY13 \$99M

RESET/RECAP
FY12 \$110.6

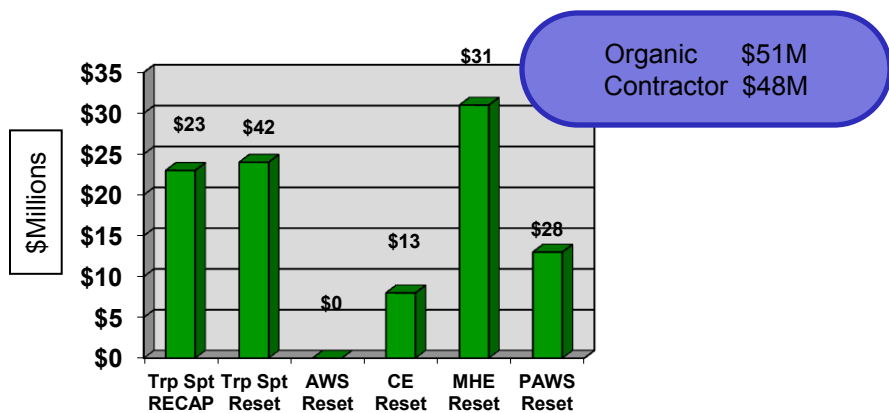
CS&CSS R&S supports the full-spectrum force through development, acquisition, testing, systems integration, product improvement, and fielding that places the best combat support systems in the hands of our Soldiers.



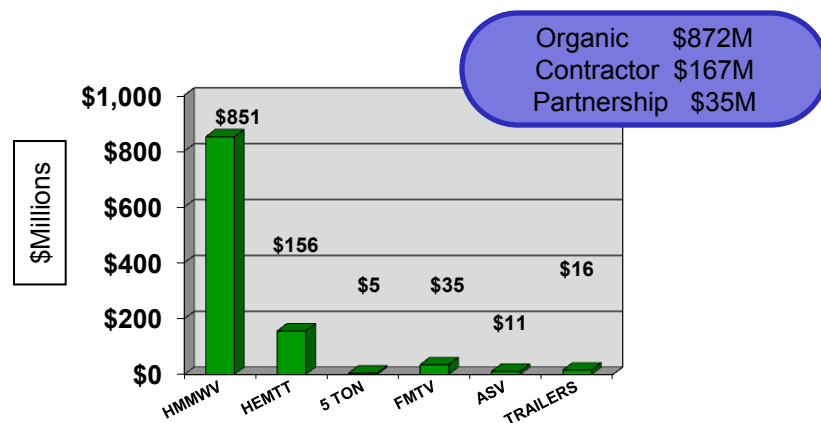
CS&CSS Readiness & Sustainment FY12 RESET/RECAP Requirements \$2.319B



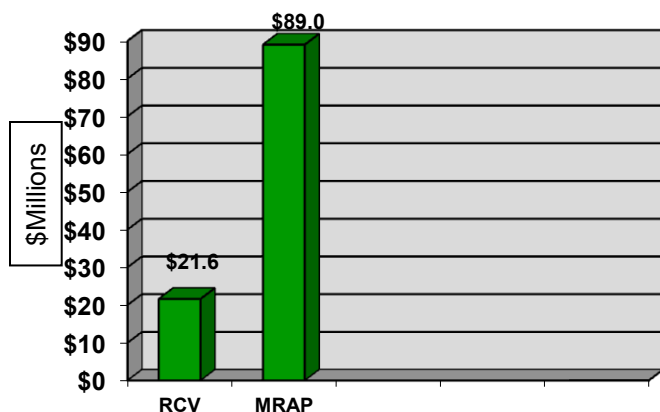
DE SUSTAINMENT RESET – \$99M



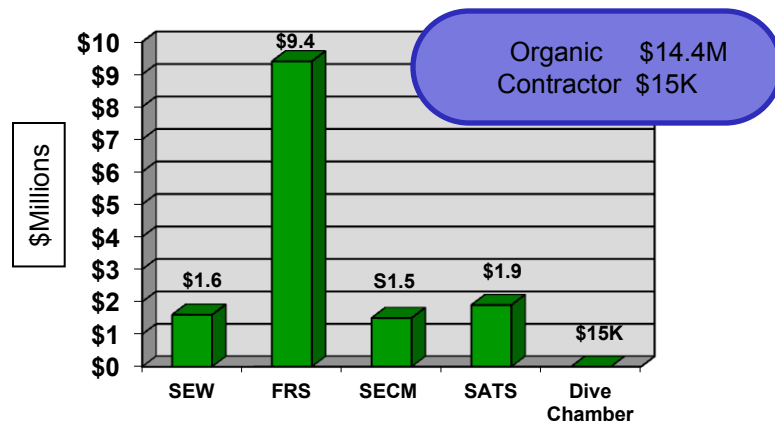
Tactical SUSTAINMENT RESET/RECAP - \$1.074



MRV SUSTAINMENT RESET - \$110.6M



TOOLS SUSTAINMENT RESET - \$14.5M





CS&CSS Readiness & Sustainment FY12 Forecasted Acquisitions – Top 20



DEPLOYMENT EQUIPMENT

350 GPM Filter Separator	\$4.1M
M9ACE Actuator, Hyd	\$3.9M
Scraper Transmission	\$3.4M
50K Water Tank	\$2.5M
M9ACE Actuator, Hyd	\$2.5M

TACTICAL VEHICLES

HMMWV Gunner Protection Kit	\$22.6M
HMMWV Wheel Assy	\$18.7M
HMMWV 6.5L Engine	\$10.5M
HMMWV 400 Amp Generator	\$5.7M
FMTV Wheel Assy	\$4.7M

TOOLS

General Mechanics Tool Kits	\$ 26.5M
Small Arms Tool Kit	\$ 6.4M
Tow Bars	\$ 4.4M
Carpenter	\$ 2.8M
SATS Base	\$ 2.6M

MINE RESISTANT VEHICLES

MRAP Wheel Assembly	\$ 24.53M
RCV Frame Structural	\$ 20.06M
RCV Wheel, Pneumatic	\$ 16.27M
RCV Frame Structural	\$ 12.23M
RCV Lighting Kit	\$ 11.66M



CS&CSS Readiness & Sustainment New Initiatives



- **DEPOT SUPPLY CHAIN MANAGEMENT**
- **LOGISTICS SUPPORT OF PM IEDD/PF EQUIPMENT**
- **Full Material Release w/ICLS for RCV VMMD and Buffalo A2**





photo courtesy of www.army.mil.