Army Logistics: Sustaining America’s Army

Supporting the Warfighter For Present Conflicts And Future Missions

2009 Tactical Wheeled Vehicles Conference
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Agenda

- What We’re Trying to Accomplish
- Reset … what it means
- A Little About Scale
- What We Need from Industry
- TWV Future Capability
- Current Sustainment Level Maintenance Workload
- A Lifecycle Sustainment Strategy
- Enterprise TWV Fleet Management
- Item Unique Identification (IUID)
What the ARMY is Trying to Accomplish

**CURRENT**
- Demand Exceeding Supply
- Counterinsurgency-Focused Force
- **Accelerated Equipment Wear-Out**
- Soldier and Family Stress

**FUTURE**
- Steady-State Achieved via ARFORGEN
- **Full Spectrum Readiness**
- Reconditioning and Recapitalization of Equipment
- Better Facilities and Increased Dwell Time for Soldiers

**IMPERATIVES**
- Sustain
- Prepare
- Reset
- Transform
Army Reset

Reset: Actions taken to restore equipment to desired level of combat capability commensurate with a unit’s future mission. Reset reverses the effects of combat stress on equipment.

- **Battle Losses/Washouts**: REPLACE
- **Damaged/Stressed Vehicles**: RECAP
- **Inspection/Repair**: Field Level Repair

**Army RESET Intent** – Establish a balanced, six-month process following an extended deployment that systematically restores deployed units to a level of personnel and equipment readiness that permits the resumption of training for future missions.
Your US Army ....

...Resets 14,000 vehicles a year ... or enough to overhaul 1 vehicle in every household in the city of Monterey.

...Spent $265.2 Million in Reset of TWVs ... or larger than the entire 2007 revenue of the Los Angeles Dodgers.

...Shipped over 10,300 Mine Resistant Ambush Protected (MRAP) vehicles to theater last year ... or enough to cover 31 football fields.

...Maintains over 29,000 Tactical Wheeled Vehicles in theater ... or enough to maintain one TWV to every Monterey city citizen over 18 ............

...Purchases enough fuel each year to provide fuel for 1 million cars annually ... or fill up all of Wal-Mart’s trucks once per day.
Some Things We’re Looking For from Industry

- Innovative energy solutions to improve system efficiency and reduce fuel consumption
- Embedded diagnostic tools to rapidly detect and isolate system failures
- Integration with information systems to improve the quality, speed and enterprise management of assets … transparent to the operator
- Advanced materials and designs for improved component/system reliability and maintainability, and lower life-cycle costs
- Unmanned robotic vehicle technology for improved materiel handling and distribution of assets to maximize soldier protection for sustainment operations
- Light weight materials and common system components to allow for quicker and easier maintenance and corresponding footprint reduction
- Design for Two Level Maintenance
# Future Capabilities: TWV

## Transport/Deploy
- Weight Reduction
- Internal/External Transport

## Survivability
- Lateral Stability
- Emergency Braking
- Restraint Systems
- Crash Protection
- Fire Suppression

## Force Protection
- Armor Kits
- Active Protection
- NBC Protection
- Environmental Control
- Weapons Mounts

## Operational Range
- Power Generation
- Water Generation
- Power Management
- Common Chassis/Parts

## Mobility
- Increased power train efficiency
- EPA compliance
- Energy Efficient
- Multi-Fuel/Energy
- Improved Ride Quality
- Improved Ride Limiting Speeds
- All Wheel Steer

## Distribution-Enabled
- Multifunctional Intelligent Load Handling System (ILHS)
- Capable of one-person operation

## Force Sustainment
- RAM
  - Improved Maintenance Ratio
  - Faster Mean Repair Times
  - Embedded Diagnostics and Prognostics
  - Tool-Free Maintenance
  - No new special tools
  - Reduced Common Tool Needs
  - Leap ahead Reliability

## Network Centricity
- Movement Tracking / Situational Awareness
- Driver’s Vision Enhancer
- C4ISR Integration
FY09 Sustainment Level TWV Workload

**Korea**
- 404 HMMWV
- FMTV
- M934
- HEMTT
- PLS

**CONUS**
- Commercial Contractors
  - 350 FMTV
  - HET
  - PLS

**ARNG RSMS**
- 2200 Various Vehicles

**Letterkenny**
- 2935 HMMWV

**Red River**
- 6962 HMMWV
- HEMTT
- M900-Series Trucks

**Jahra:**
- 319 Heavy Trks
- 137 Linehaul
- Oshkosh Year 2/4

**Mina Abdullah:**
- 363 Mdm Trks
- Honeywell Year 2/4

**Mina Abdullah:**
- 1500 HMMWVs
- Lear Siegler/LSI Year 2/5

**ARNG RSMS**
- 2200 Various Vehicles
A Lifecycle Sustainment Strategy

Visibility of:
- Assets
- Usage Data
- Operational Environment
- Funding
- Status of Maintenance

Control by:
- Providing appropriate authority to leaders
- Defining roles and responsibilities
- Providing appropriate resources

Capacity to:
- Transport, receive, repair, hold and return equipment from factory to foxhole
- Meet surge requirements and seasonal/cyclical demands…but avoid excess when requirement no longer exists
- Maintain a pool of qualified workers (government and contractor) with requisite skills
Enterprise TWV Fleet Management:

Objective End-State

Visibility
• Environmental Conditions
• Economic Useful Life
• Tailored Work Standards
• Sustainment History

Enablers
• IUID, CBM+, serialized item mgmt

Enterprise Management
• Single Integrated Life Cycle Mgmt
• Synchronize with Modernization Strategy
• Maximize Readiness

Sustainment Footprint
• Right Sized Capacity
• Core Requirements
• Supports the Life Cycle Requirement + Surge
• Organic + Contractors

Visibility Control

Capacity

Life Cycle Sustainment Maintenance
• Pull Production
• Recap/Reset/10/20
• Usage/Condition Based

Knowledge Based Resourcing Decisions
• Isolate cost drivers
• Isolate Readiness drivers
• Flexible Sustainment requirements over time

Equipment Life-cycle 20 + years

Changing Operational Requirements Require a Flexible Sustainment Strategy
Item Unique Identification (IUID)

IUID is a system for individual item identification throughout the supply chain.

- Increase visibility in multiple joint logistics systems
- Increase in-transit visibility
- Increase visibility of system sustainment history, cost and readiness drivers
- Enhance reliability and accuracy of property accountability
- Provide better inventory control

- **DFARS 252.211-7003 (24 November 2008) requires IUID if...**
  - Acquisition cost is $5,000 or more
  - Cost is less than $5,000 and...
    - Item is designated by the acquiring activity as DoD serially managed, mission essential, or controlled inventory
    - Item is designated to require IUID by the Government
  - It is a parent item that contains sub assembly, component, or part

- **Way Ahead:**
  - Utilize Reset Programs to apply markings
  - Incorporate read capability into logistics IT systems
  - Integrate into policy and training
  - Conduct National Maintenance Program Pilot/Test

Requires An Evolutionary Approach to Implementation
“We have 250,000 Soldiers in 80 countries, and we've been at war for seven years, with 140,000 Soldiers in theater today. And nobody ever asks, who feeds those guys? Our logisticians are victims of their own success. Their work is so good it is invisible - it's a given. Wherever our Army goes, whatever our Soldiers need, whenever they need it, they get it. The miracle of Army logistics.”

Thank you for all you do for our Soldiers.
Questions?