

AMERICA'S ARMY: THE STRENGTH OF THE NATION™



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NDIA Tactical Wheeled Vehicles (TWV) Conference

8 February 2010

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Purpose: To provide an overview of the Army's TWV fleet and discuss how it supports Army senior leader's vision

*Our goal is to build a **versatile mix** of **tailorable** and **networked** organizations, operating on a **rotational cycle**, to provide a **sustained flow** of trained and ready forces for current commitments and to hedge against **unexpected contingencies**, at a tempo that is predictable and sustainable for our All-Volunteer Force*

Agenda:

- **Strategic Orientation**
- **New Army Equipping Strategy**
- **Evolving TWV Investment Strategy**
- **TWV Fleet Overview**
- **Evolving TWV Capability Requirements**



- Shifting Operational Landscape
- Restructuring materiel modernization strategies
- Fielding “incremental” vs. “big bang” solutions
- Transitioning to support the establishment of the Materiel Enterprise
- Diminishing resources and simultaneous increases in requirements
- Facing difficult choices in a fiscally constrained environment

The War:

- ✓ Executing a responsible drawdown from Iraq
- ✓ Building capacity in Afghanistan to achieve U.S. objectives
- ✓ Fielding improved Soldier capabilities
- ✓ Resetting redeploying units to meet ARFORGEN full spectrum requirements

“Current Fight” vs. “Homeland Defense” vs. “Strategic Depth” vs. “Future Fight”

Priorities

Unclassified

- An **affordable** strategy
- Ensures Soldiers have the **right equipment** to meet **mission requirements**:
 - *whether in combat*
 - *training for combat*
 - *operating as part of generating force*
 - *conducting Homeland Defense and Defense Support to Civil Authorities missions*



Old Strategy

- Tiered readiness
- Equip 100% units, 100% of the time
- Minimal recognition for Reset
- Homeland Defense requirements not recognized
- Equipment normally remained in one unit
- Equip to unit design
- Requirements approved, then resourcing considered

New Strategy

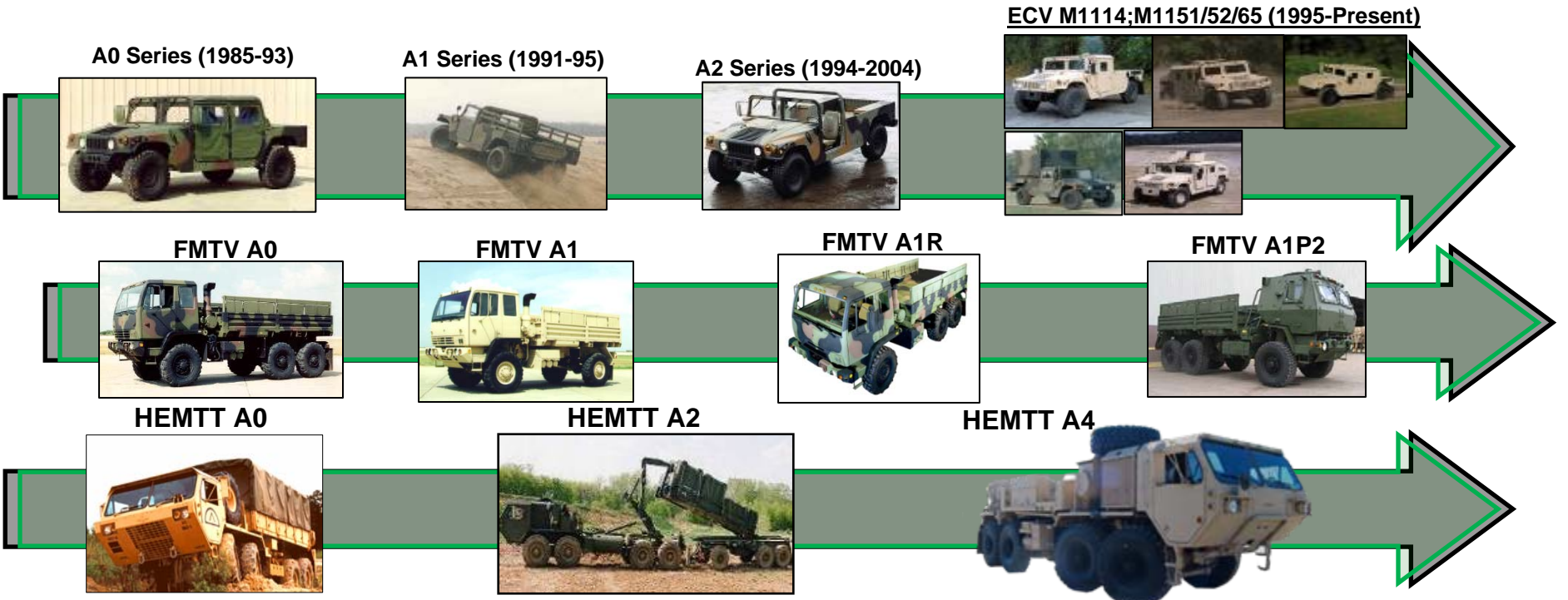
- Cyclic readiness
- Equip to mission and ARFORGEN Phase
- Recognizes necessity for Reset
- Homeland Defense capabilities recognized/resourced
- Equipment in constant motion
- Equip to unit mission
- Requirements life cycle costs considered upfront

Army TWV Fleet = Over 267,350 vehicles

- **Adapting** based on operational demand, cognizant of fiscal realities
- Planning to **integrate** 12,291 MRAP + 3,391 M-ATV into the force
- Emphasizing a **mixed fleet** that spans protection, payload, and performance
- Accelerating our plans to **stop** HMMWV procurement for Army only needs
- **Equipping to mission** per ARFORGEN cycle
- **Modernizing** while we fight
- Planning to **restore** Army Prepositioned Stocks
- **Recapitalizing** and **divesting** selected variants
- Planning to **integrate** Joint Light Tactical Vehicle when ready
- **Scrutinizing** new and existing TWV requirements



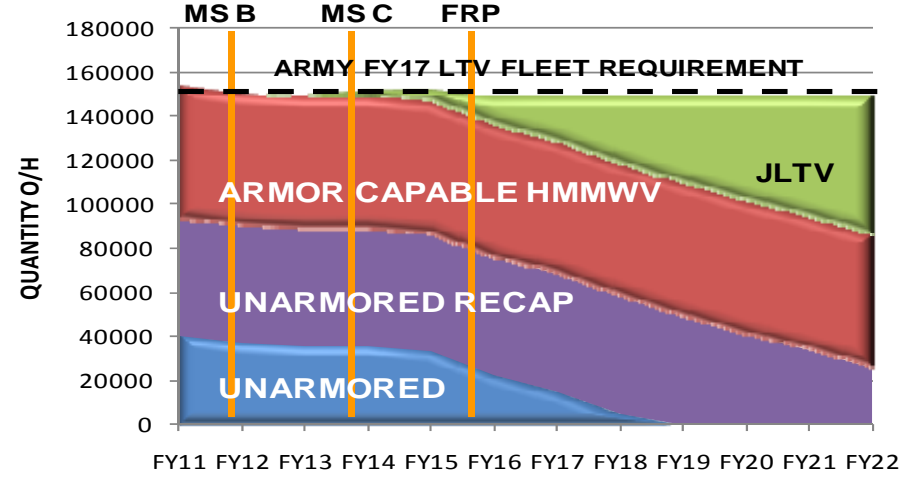
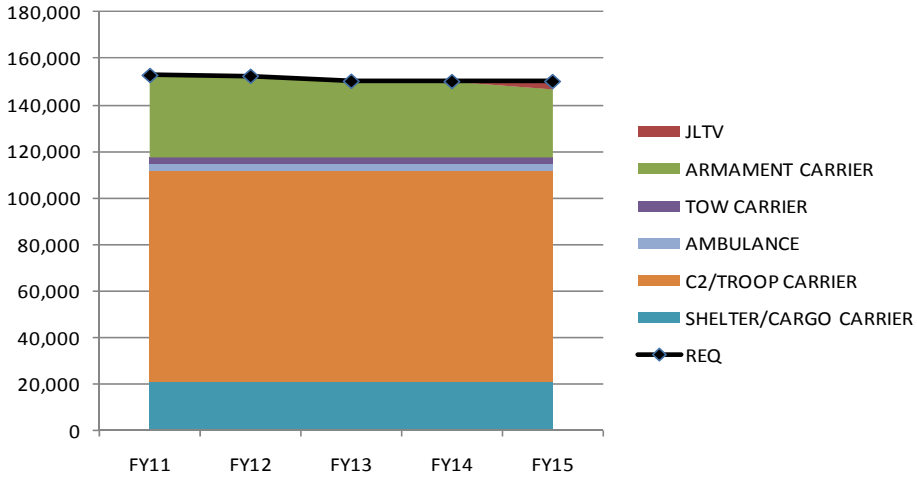
Tactical vehicles must be protected, mobile, and networked



Capabilities common to all.

- Significant survivability improvements
- Higher horsepower engine
- Electronic Transmission
- Higher efficiency power train
- Integrated AC
- Improved hot weather performance
- B-Kit Armor
- Optimized Maintenance Ratio
- Collision Warning System
- Improved Power Generation
- Improved Wheels and Tires
- Improved Seat Belts
- Fire Suppression
- Improved Suspension
- Blast Seats
- Anti-lock Breaks / Traction Control
- Air/Hydraulic Brake System
- Increased Axle Load

Restored Performance drivers have been Force Protection, Increased Armor, and Soldier Safety.



- Stopping HMMWV procurement for “Army-only” needs – sustaining current HMMWV requirements through RECAP
- Exercising option for over 2,000 HMMWVs by 1 Mar 10 (e.g., final buy for “Army needs”, acquisition objective met)
- Funding not requested in FY11 for Army-only HMMWV procurement
- Seeking approval to use a portion of the FY10 HMMWV Procurement funding for other Army priorities
- Reviewing options to sustain 160K on-hand HMMWV fleet by shifting acquisition strategy to RECAP and/or Reset
- Replacing over 3,000 Light Tactical Wheel Vehicle requirements with the MRAP/M-ATV
- Supporting development of the Joint Light Tactical Vehicle

A0 Series (1985-93)



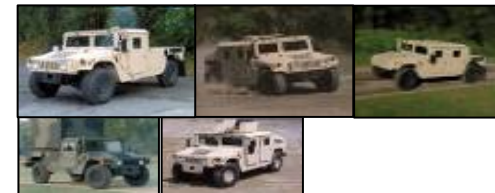
A1 Series (1991-95)

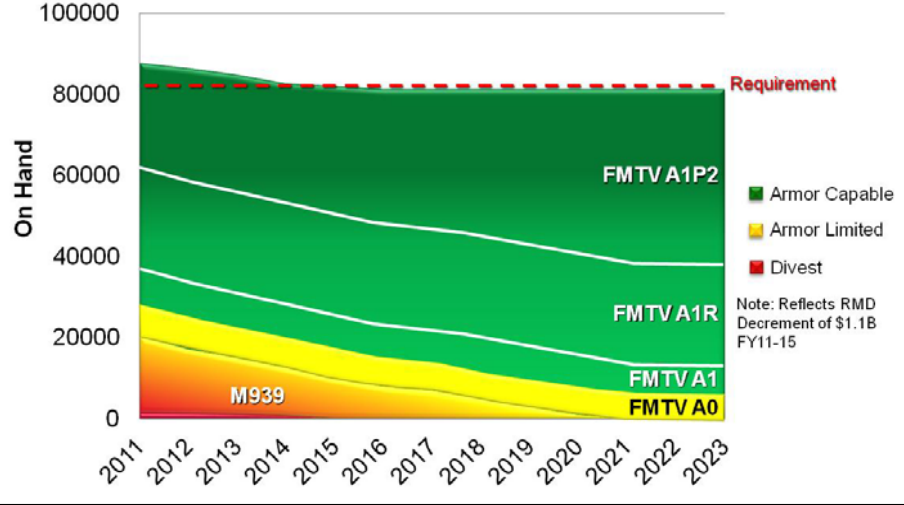
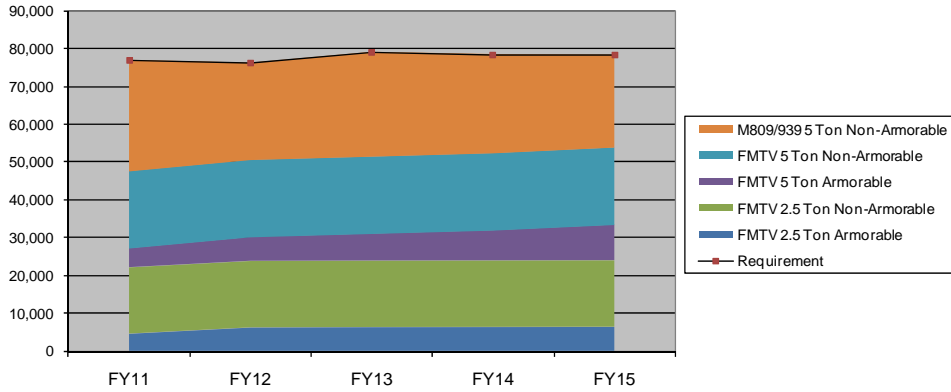


A2 Series (1994-2004)



ECV M1114;M1151/52/65 (1995-Present)

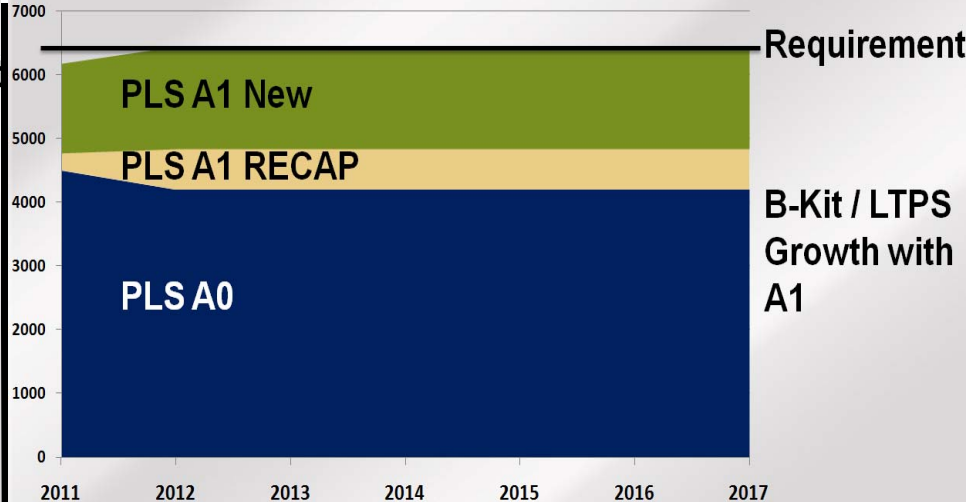
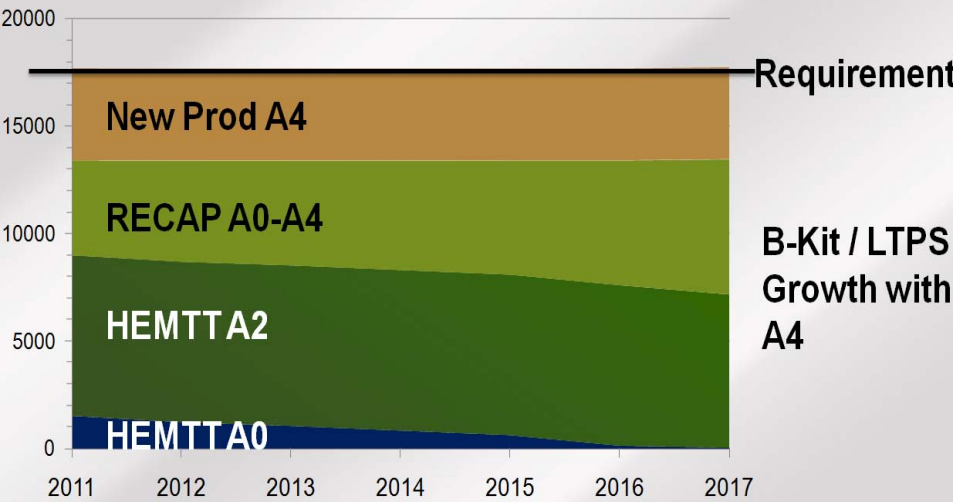




- Majority of requirements are “modern,” and 69 percent of Medium Trucks on hand would be classified as modern
- Current investment has resulted in healthy fleet that is well distributed relative to requirements
- Aging fleet – 30 percent of fleet is being filled by M35, M809, and M939 series trucks whose average age exceeds 20 years
- Moving Army to a fleet with scalable protection (e.g., FMTV investment strategy procures armor capable vehicles to support Long Term Protection Strategy objective to provide scalable protection by using the A cab/B-kit concept, to replace older models, and to fill current Modified Table Of Organization & Equipment (MTOE) shortages
- Divesting M35 series trucks by end of FY11 and M809 series trucks by end of FY15
- Planning to maintain capability to sustain M939 series trucks through FY22



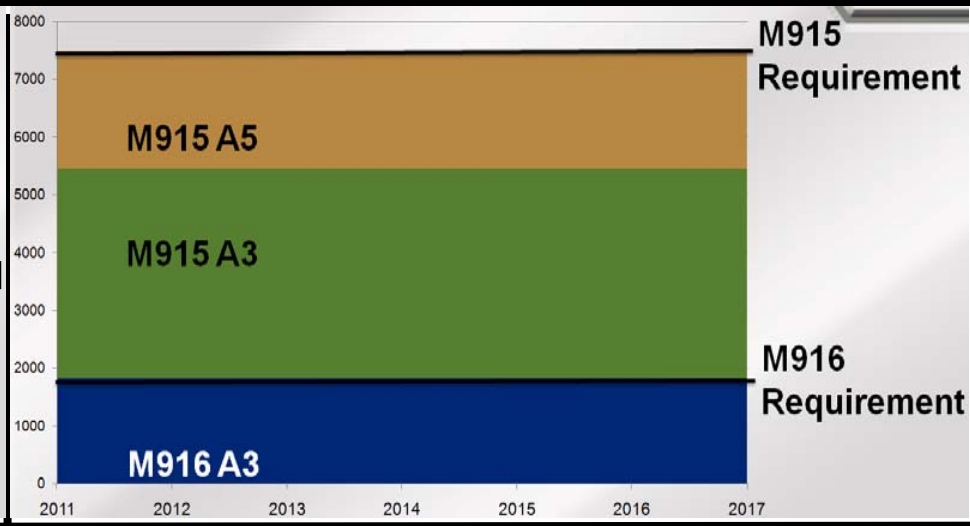
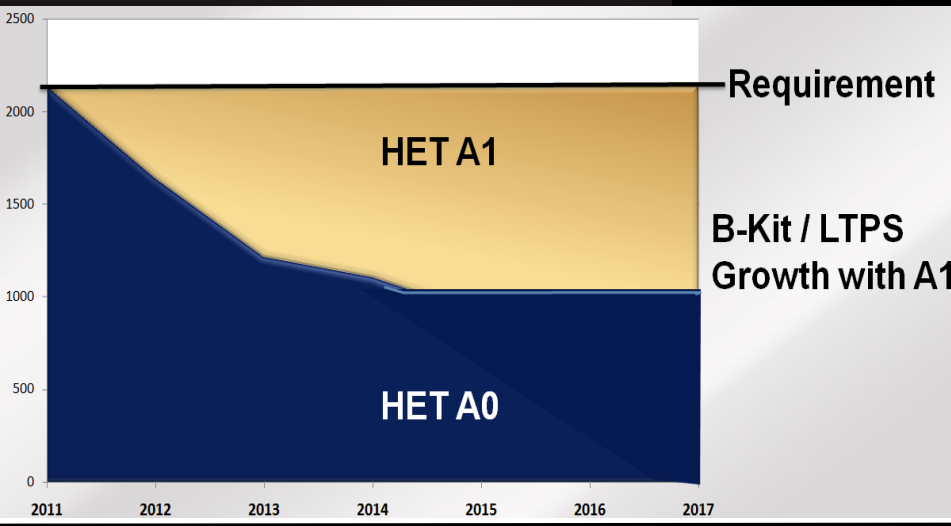
Tactical Heavy Truck Family



- Majority of requirements are “modern,” and 98 percent of Heavy Tactical Vehicles on hand are modern
- Equipment well distributed across COMPOs 1-3. COMPO 6 (APS) low due to decision to source operational needs
- Divesting oldest M915/M916 HEMTT variants NLT FY11 – replacing with M983 Light Equipment Transporter
- Investing in HEMTT RECAP and new procurement of HEMTT Load Handling System and Light Equipment Transporter
- Modernizing Heavy fleet primarily thru RECAP, Reset, and Product Improvement



HEMTT A4



- Speed of modernization/divestiture depends on how fast we want to achieve our LTPS and replace older model trucks – LTPS target is 47% approved “armor available”.
- Current HTV armor on hand is ~22% (LTAS “B” Kits and AoA sets)
- HEMTT A0/A2, PLS A0, HET A0 8V92 engine obsolescence FY18





- Provide Soldiers **protected mobility**
- Provide increased **off-road mobility**
- Increase **platform capacity** to accept evolving technologies
- Obtain better **Command and Control on-the-move** capability
- Use **incremental approach** to vehicle development

A culture of innovation is needed to address continuously evolving warfighter capability gaps