



# PM Heavy Tactical Vehicle



## MISSION

*The Life Cycle Management of Heavy Tactical Wheeled Vehicles enabling the Modular, Joint Expeditionary Force*

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  - MAJ Nate Meidl
- **APM M915 FOV/ISRS**
  - MAJ Pat Smith
- **APM Line Haul /Trailer Testing**
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# Heavy Tactical Vehicles

## 21 Products, 10 OEMs

- M977 – Heavy Expanded Mobility Tactical Truck (HEMTT) Cargo
- M985 – HEMTT Cargo w/MHC
- M978 – HEMTT Tanker, 2500 gal
- M983 – HEMTT Tractor
- M984 – HEMTT Wrecker
- M1120 – HEMTT LHS
- HEMTT A3 – Electric Hybrid Tech Demonstrator
- HEMTT A4 – LTAS + Improved Performance
- HEMTT M983 Tractor / LET
- HEMTT RECAP

- M1074 – Palletized Load System (PLS) w/MHC
- M1075 – PLS Truck
- M1076 – PLS Trailer
- PLS A1 – LTAS and Improved Performance

- M1070 – Heavy Equipment Transporter System (HETS)
- M1000 – HETS Semi-trailer
- HETS A1 – Improved Performance

- M1142 – Tactical Firefighting Truck (TFFT)
- M1158 – HEMTT-based Water Tender (HEWATT)

- M3/M3 A1 – Container Roll On/Off Platform (CROP)
- Container Handling Unit (CHU)
- M1, M1077/M1077 A1 – Flat rack

- M915 Line Haul Tractor
- M915 A5 – LTAS + Improved Performance
- M916 – Light Equipment Transporter (LET)
- M917 – 20 Ton Dump

- Fifth Wheel Towing Device (FWTD)
- M870 A3 – 40 ton Low Boy Trailer
- M871 A3 – 22.5 ton Flatbed Trailer
- M872 A4 – 34 ton Flatbed Trailer
- M989 A1 – HEMAT
- M967 A2 – 5000 Gal Bulkhaul Tanker
- M969 A3 – 5000 Gal Refueler Tanker

### AOR

- Interim Stryker Recovery System
- External Fire Suppression
- Armor
- LED Headlights
- Improved Seats





# HTV Fleet Overview Tactical Systems



- HEMTT (7 Variants), PLS, PLS-Trailer
- Heavy Capacity Hauling (HEMTT 11.5 Ton, PLS 16 Ton)
- Inherent Container Handling/Transport

- Unit Mobility
- Ammunition Resupply
- Fuel Resupply
- Recovery Systems



# HTV Fleet Overview Line Haul Systems

## M915A3



## M871 A3



## M872A4



## M967 Tanker



## M969 Tanker



## M916



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## M870A3



The M915A3 line haul truck tractor is used primarily to transport the 22 ½ ton and 34 ton flatbeds, the M1062 7.5K-gallon, and the M967/M969, 5K- gallon semi-trailers. The M871 is a 22 ½ ton capable tactical, dual purpose semitrailer that transports break bulk cargo and 20 ft. ISO containers. The M872 is a 34 ton capable local line haul of break bulk and 20 ft. ISO containers. The M916A3 Light Equipment Transporter is used primarily to tow the 40 ton M870 lowbed semitrailer. The M870A3 trailer is a low-bed trailer used by Combat Engineer units to transport Engineer Construction Equipment (ECE) and associated materials suitable for transport

- Unit Resupply
- Unit Mobility
- Ammunition Resupply
- Fuel Resupply



# HTV Fleet Overview Special Mission Systems

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M1142 TFFT



M1070 HETS



M1000 HETS Trailer



M1158 HEWATT



- TFFT offers the mobility of the HEMTT, a crew of 6, and a 1,000 gal water pump fire fighting system.
- HEWATT provides water tender capabilities (2,500 gal) and limited stand alone fire fighting capabilities
- HETS is a capable prime mover for the Army's M1 main battle tank

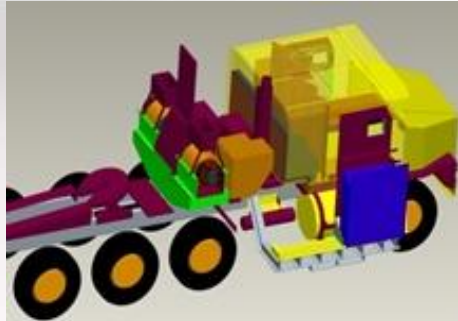
- Heavy Unit Mobility
- Firefighting Platform
- Water Resupply



# HTV Armor Development



**Gen I**  
(Bosnia Armor)



**M915 EFP  
ARMOR**



**HET Gen II AoA**



**Gen III**  
(w/ Applique)



**HEMT A4 LTAS**  
(Integrated A/B Kit)

*Continuing to Improve*



# Direct AOR Support

## M915 Cab Field Kit

- **Durable solution transfers AoA weight away from cab to frame rails**
- **Prevent cab structural and related component damage and failures**
- **10 Kits installed for prove out JAN 08**



**Fielding began SEP 08**

## Interim Stryker Recovery

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Interim Stryker Recovery System is a M983A2 LET pulling a modified Fifth Wheel Towing Recovery Device (FWTRD) and a High Mobility Recovery Trailer (HMRT). The HMRT has a 30T payload carrying capacity, the FWTRD has a 16T lift and tow capacity



**Fielding 18 systems began Fall 08**

## External Fire Suppression

### FIRETRACE

- **Plastic panels which are designed to shatter upon impact releasing fire suppressing powder**



### HRS NCASE

- **Kevlar "quilt" made of 6" pouches of fire suppressant powder. Each section is independently stitched**



**Fielding began Summer 08**

## Seating Upgrade

### New Seats

- **PM provided 300 Bostrom upgrade seat sets to theater for M915**
- **Outfit convoy HEMTT Wreckers and HETs with GSS Seats**
  - 255 HET Seat kits
  - 30 HEMTT Wrecker Seat Kits





# Past / Current



*Basic HEMTT*

- 8V92 MUI Engine
- HT 740 Transmission
- Hendrickson Suspension
- Air Trans on C130, C141
- AoA Cab

**1985 - 2001**



*HEMTT A2*

- AoA Cab
- 8V92 DDEC IV Engine
- Allison Electronic Transmission
- Corrosion Protection Upgrades

**2002 - 2007**



*HEMTT A4*

- B-Kit Ready
- Modern Power Train
- Air Ride Suspension
- Updated Electrical System
- ABS & Traction Control
- Climate Control
- Common Cab with PLS
- RECAP Cost < Cost of New Production w/ Tech Insertion (B-Kit Ready)

**2008**

***Better, B-Kit Capable Truck***





# Evolution of HEMTT RECAP



*Core Truck in Teardown*

REQUIRES  
SEED  
TRUCKS



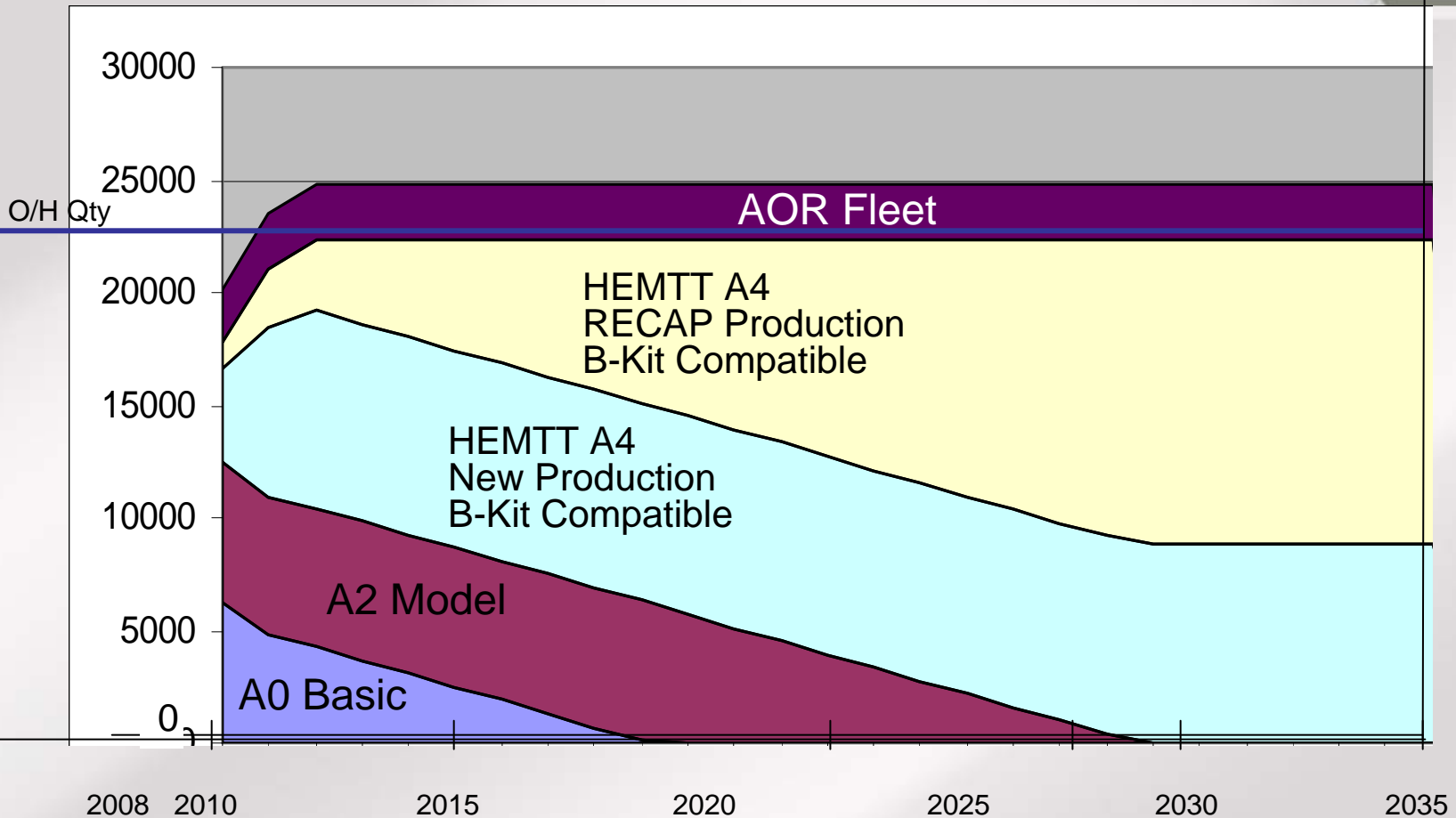
*After RECAP - B kit Ready!*

- Established in 2001 by the VSCA directive to lower O&S costs of HEMTT fleet
- Upgrades fleet to “B kit ready” model with added crew protection
- Emphasis on integrating affordable technology upgrades
- Inducts old, worn out HEMTT’s and produces a like-new vehicle with the same configuration as new production at less cost
- Focusing on Logistic Foot Print reduction
- Dependent upon availability of core “seed”

*HEMTT RECAP is critical to a B-Kit capable HEMTT fleet*



# HEMTT B-KIT MODERNIZATION



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RECAP = 590 per year FY 11-27



# History / Future



## Basic PLS

- 8V92 DDEC III/IV Engine
- CLT 755 Transmission
- Hendrickson Suspension
- Air Transportable on C141, C5, C17

*1994-2008*



## PLS A1

- B-Kit Ready
- Modern Power Train
- Independent Front Suspension
- Updated Electrical System
- ABS & Traction Control
- Climate Control
- Common Cab with HEMTT

*2009*

## PLS RECAP Way Ahead

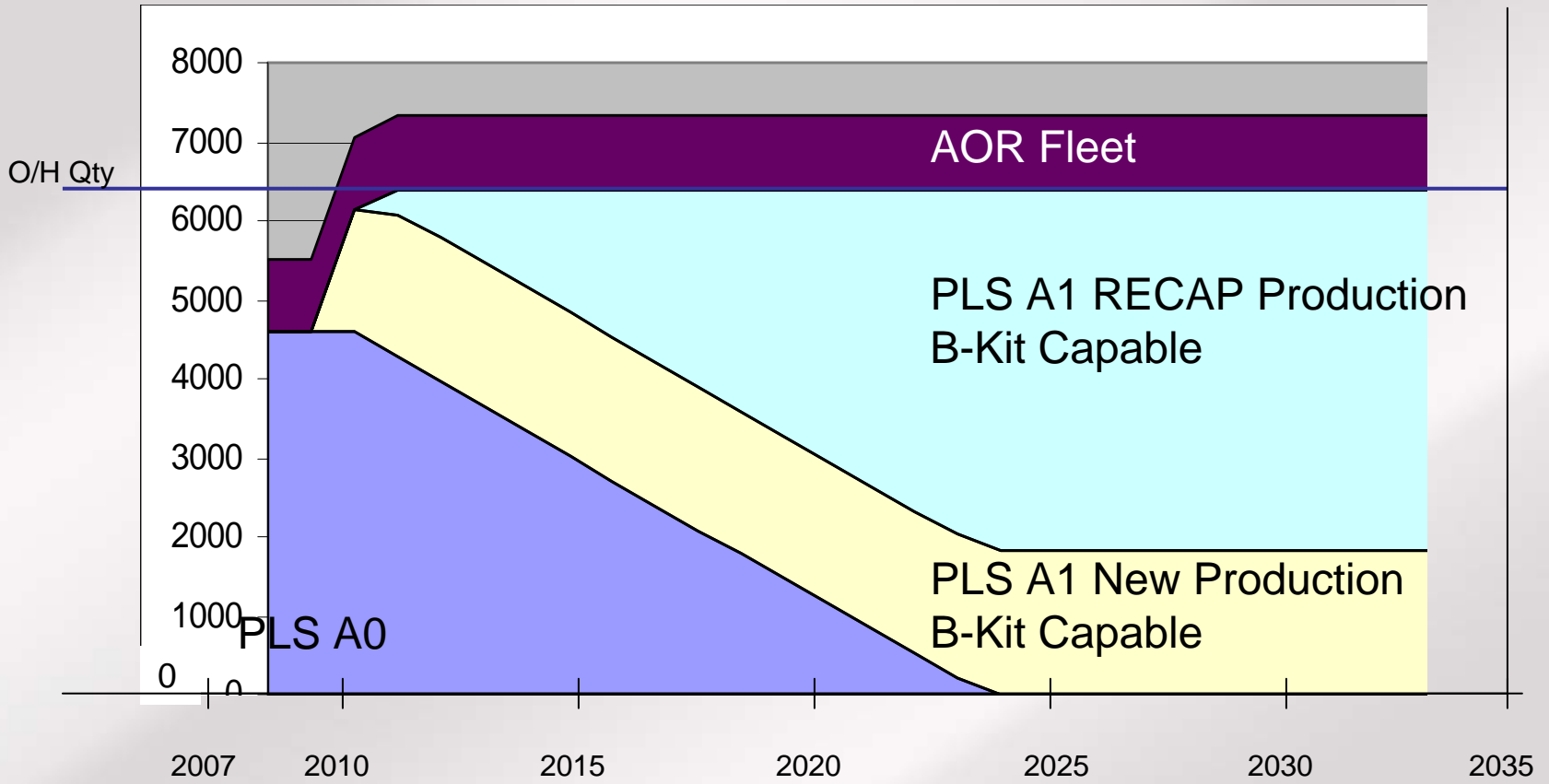
- PLS basic inducted, returned as PLS A1
- RECAP Cost < Cost of New Production w/Tech Insertion
- **Currently funded FY10-12 only**

*2010 - 2025*

***Better, B-Kit Capable Truck***



# PLS B-KIT MODERNIZATION



RECAP = 313 per year



# HTV Significant Events for FY09

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## ● **OEF/OIF Support**

- *Fielding HEMTT A4 w/ B-Kits*
- *M915 Cab Field Kit installation*
- *Interim Stryker Recovery System support*
- *Fire Suppression Kits for HEMTT, PLS, HET and M915FOV*

## ● **Continued record production levels for all HTV product lines**

## ● **Fleet Modernization**

- *PLSA1 / HET A1 testing*
- *M915A5 testing / production cut-in*
- *Enhanced container Handling Unit enters production*

## ● **Family of Heavy Tactical Vehicles contract negotiation**



# PM's Last Word

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## Two Customers

The Warfighter + The Taxpayer

**We Must Ensure Outstanding  
Equipment Goes to the Warfighter**

