



TWV Conference

"Sustaining the Joint Force/Improving the Future Force"

*MG
Mike
Lenaers*

*6
February
2007*



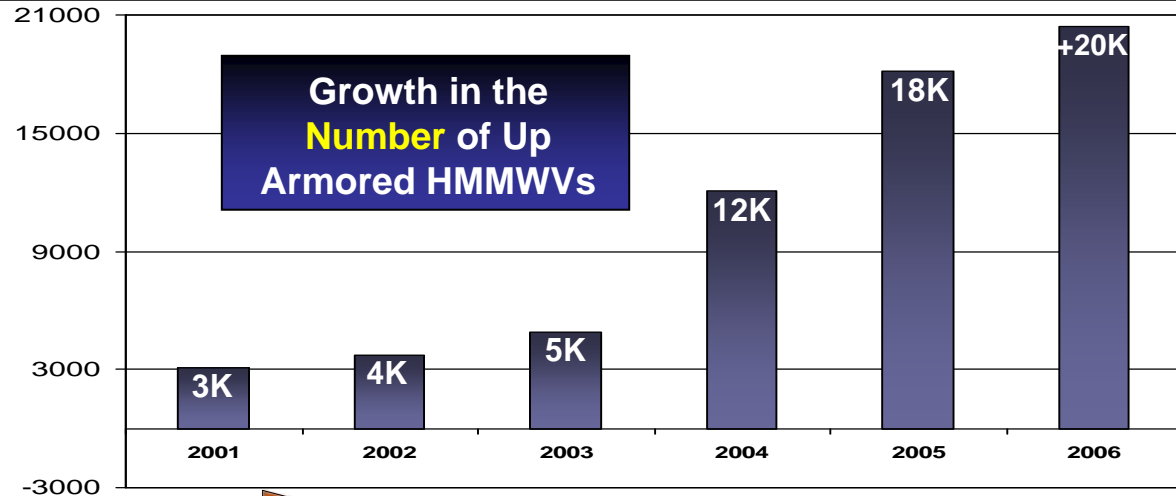
Unclassified

THE HMMWV ... From Hummer to Groaner

"HUMMER"

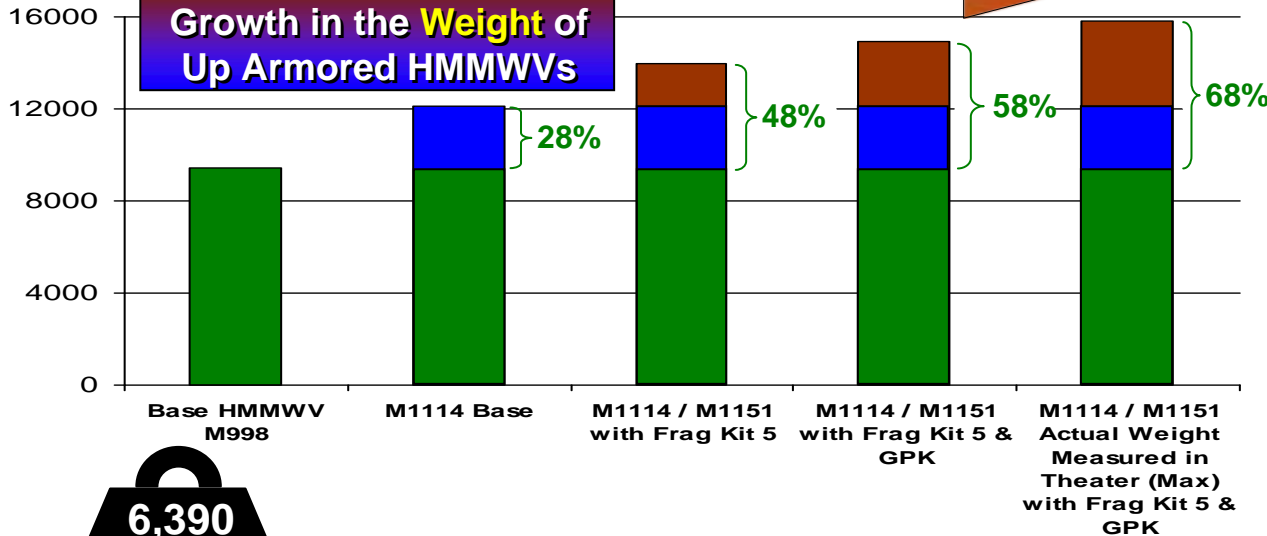


M998 HMMWV 4x4 High-Mobility Multipurpose Wheeled Vehicle



Mission Creep

Growth in the Weight of Up Armored HMMWVs



"Groaner"



M1151A1 with the Objective Frag Kit 5



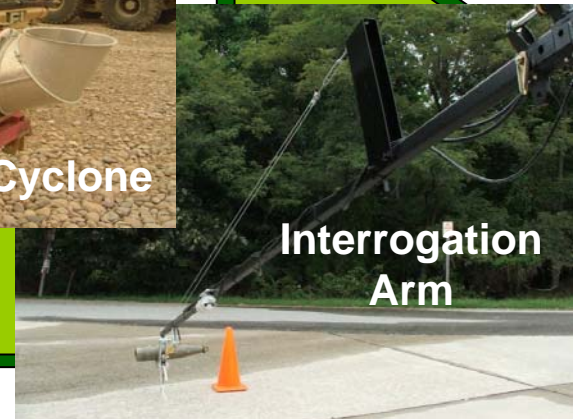
M1114 with the Objective Frag Kit 5

**6,390
POUNDS
ADDED**

... THAT'S OVER 2/3 OF AN ORIGINAL HMMWV



Mission Creep on All Vehicles





Made for OIF / OEF?

Works great here ...

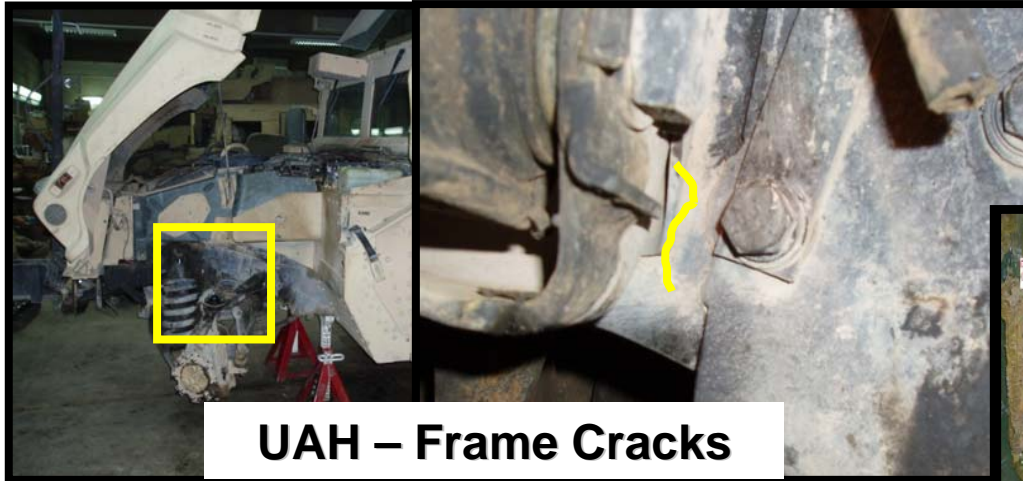


But what about here?



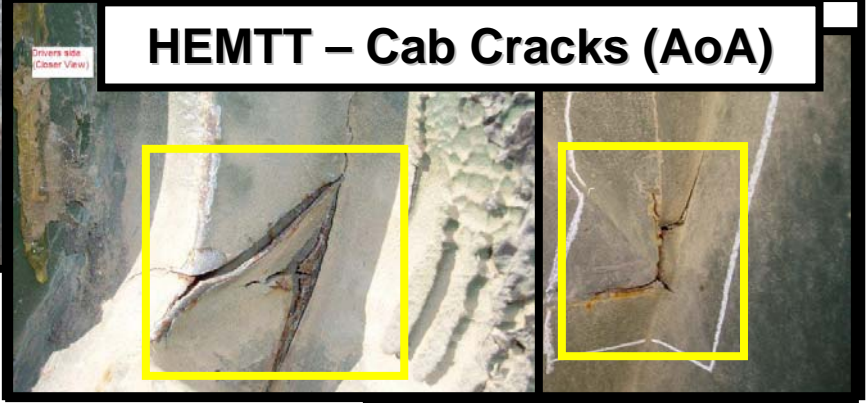


Failures

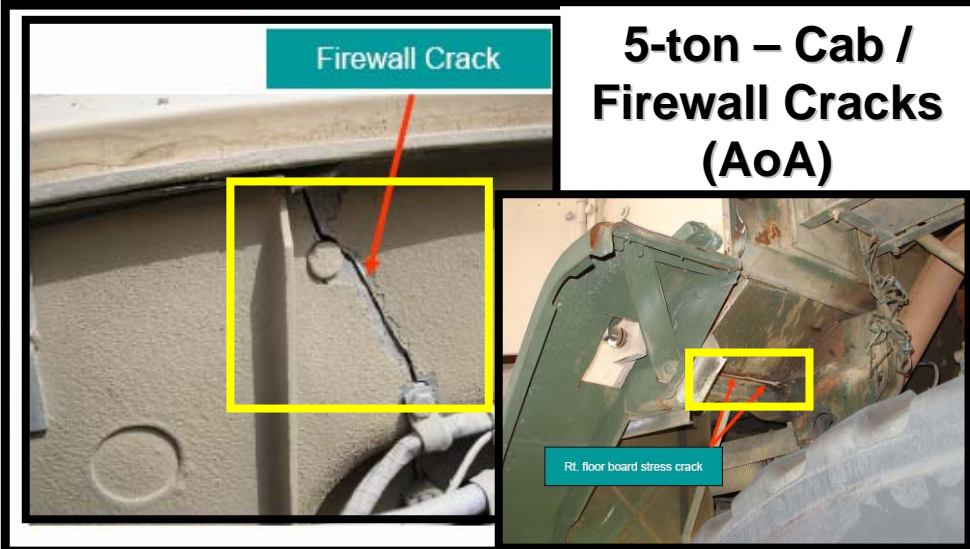


UAH – Frame Cracks

**FMTV –
Frame
Cracks
(LSAC)**



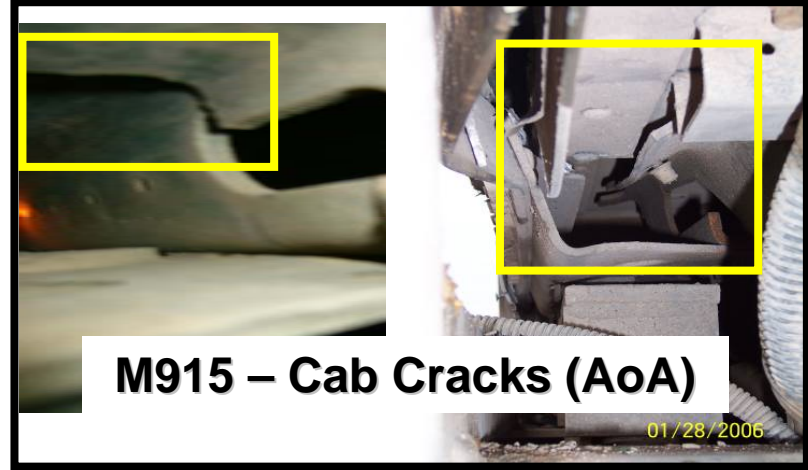
HEMTT – Cab Cracks (AoA)



**5-ton – Cab /
Firewall Cracks
(AoA)**

Firewall Crack

Rt. floor board stress crack



M915 – Cab Cracks (AoA)

01/28/2006



Refurbishing AoA Vehicles in SWA

➤ HMMWV Vehicles

- Desired Annual Refurbishment Rates:
 - 8.5% of fleet per year (1,800 HMMWVs per year)



➤ Heavy Tactical Vehicles * **

- Desired Annual Refurbishment Rates:
 - HET system (M1070 Tractor and M1000 Trailer): 50% of Fleet/year (236 HET systems/year)
 - HEMTT and PLS: 25% of Fleet per year (741 HEMTTs and 387 PLS' per year)



➤ Medium Tactical Vehicles * **

- Desired Annual Refurbishment Rates:
 - FMTV: 25% of fleet per year (595 FMTVs per year)
 - M939: 25% of fleet per year (310 M939s per year)



➤ Line Haul Tactical Vehicles* **

- Desired Annual Refurbishment Rates:
 - M915s: 50% of fleet per year (686 vehicles per year)



* *Estimated: 70% Firm Fixed Price, 30% Time and Materials*

** *Three Request for Proposals and Three separate Four Year IDIQ contracts*

Keeping the Balance

Protection

M1114
W / FRAG
Kit 5 & GPK



Performance

Payload

Unclassified

Keeping the Balance

Protection

M1114
W / FRAG
Kit 5 & GPK



Performance

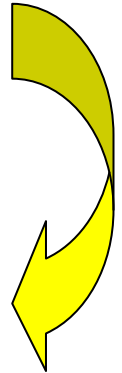
Payload

Unclassified

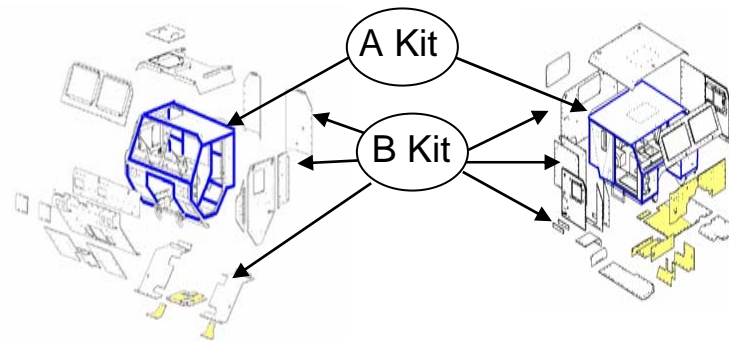
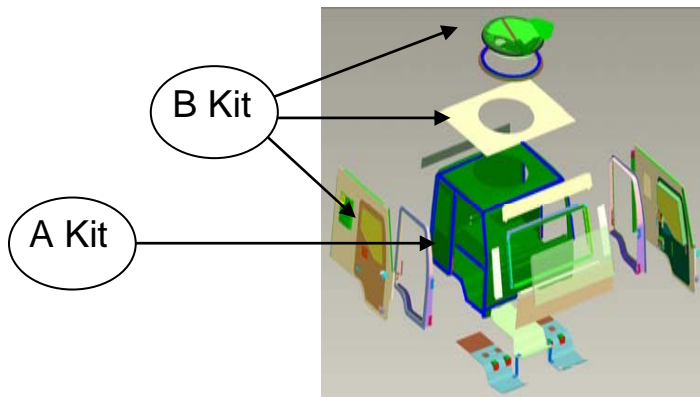


We will need to RESET Armored Vehicles upon return

- Can we go to a Long Term Armor Strategy during RESET?
- What is the Cost?
- Will we have the dollars?



- A Kit = Frame, Attachments, Hard to Install Armor, commo wiring, mounting points for Gunner's Protection Kit + will need non-Armor panels and glass (Install during RESET vs old cab)
- B Kit = Armor Panels and Armor Glass





ARFORGEN

REQUIRES RAPID RESET BETWEEN CYCLES

- Align Soldier assignments with a unit's operational cycle (~36 months)

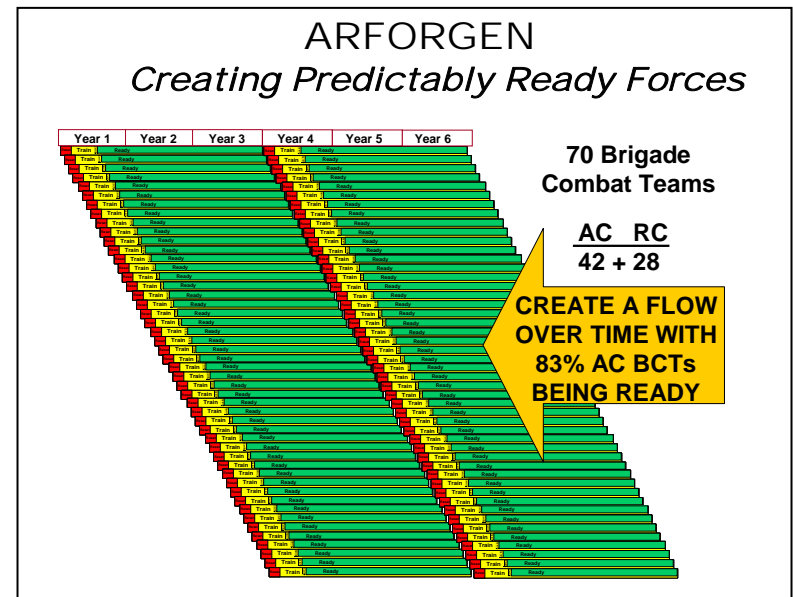
- Soldiers arrive, train, deploy, and depart together

- Improves cohesion and training effectiveness



CHALLENGES:

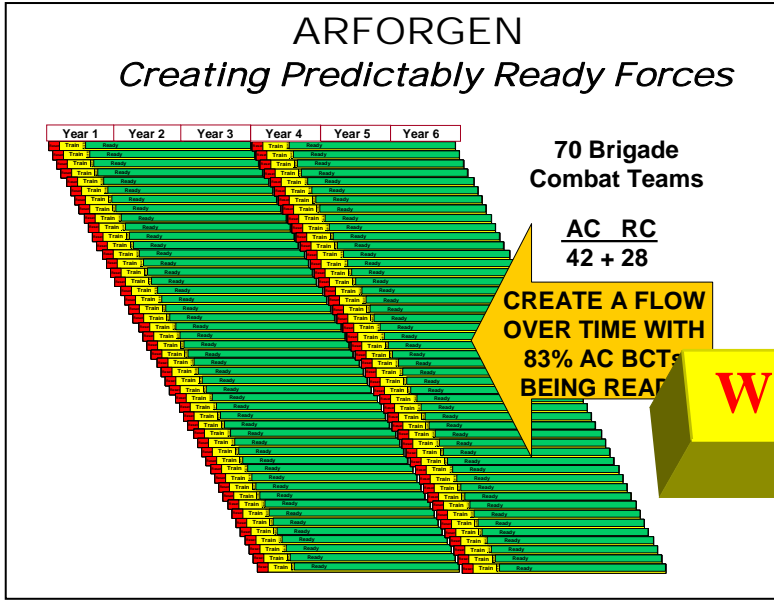
- Very short RESET window
- Soldiers not available
- Keep costs reasonable
 - Super – Service
 - Mandatory Parts Replacement
- Touch Units Once in 3 Years





ARFORGEN

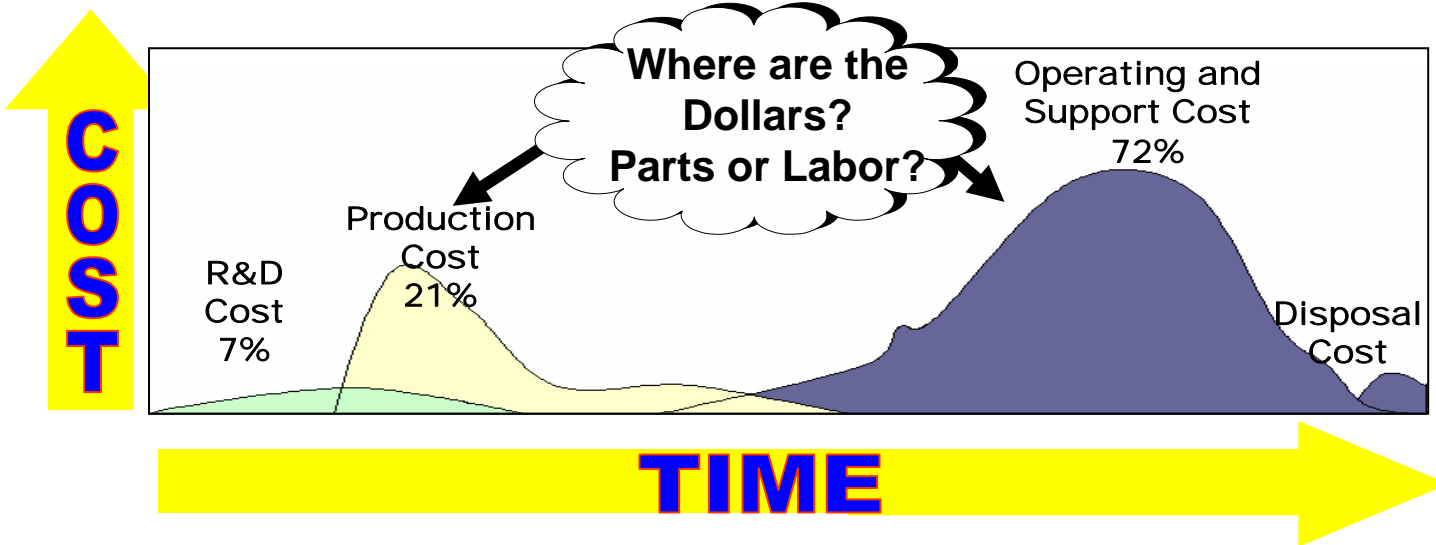
Reset Support... *a Continuing Requirement*



Opportunities:

**14 AC + 5 RC BRIGADES
RESET EACH YEAR**

Will provide predictability for RESET parts





PM HBCT Condition Based Maintenance (CBM+) Condition Based Readiness Analysis (CoBRA)

- Functional data from electronic control modules
- Platform sensors and Data
- Automatic data collection, storage and transmission (transparent to the unit)
- Unique item tracking to key components

- Maintenance and Logistics analytical tools and reports
- Correlate Maintenance actions with data collected
- Risk reduction with Fort Knox Fielding
- Establishes the foundation for the LCMC CBM+ Capability



- FY06 Effort:
- Funded by \$7M RDTE Bill + \$3.2M Congressional Add
 - Gets existing data off of data bus for analysis
 - Completion of that analysis is unfunded - \$5M (FY08) Balance of original scope

“We appreciate your advice”