PROGRAM EXECUTIVE OFFICE
COMBAT SUPPORT & COMBAT SERVICE SUPPORT

Overview of Program Executive Office Combat Support & Combat Service Support

2010 NDIA Tactical Wheeled Vehicle (TWV) Conference

EQUIP OUR JOINT WARFIGHTERS WITH THE WORLD'S BEST CAPABILITY... TODAY AND TOMORROW...

The Right People...
The Right Product...
At the Right Time...
From the Right Source...
At the Right Price

MR. KEVIN M. FAHEY
Program Executive Officer
Combat Support & Combat Service Support

8-9 February 2010

The War is "NOW"

The Future is still unclear!!!

PEO CS&CSS Organization

Program Executive Office Combat Support & Combat Service Support

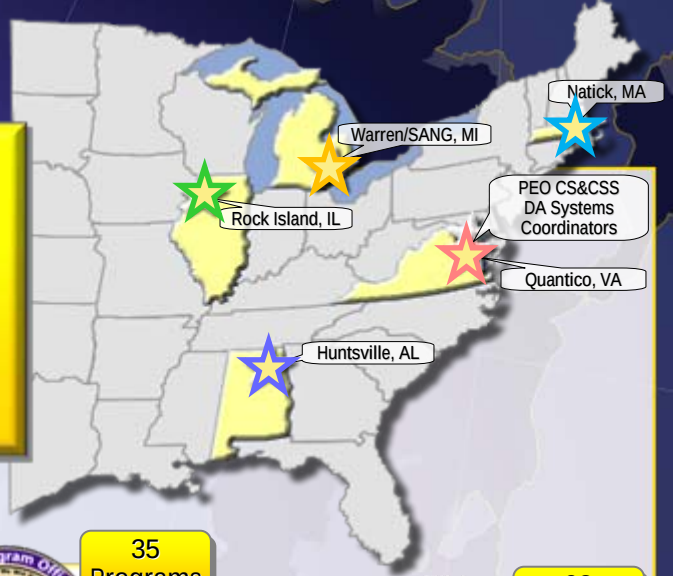
530+ Programs

Program Executive Officer
Mr. Kevin Fahey

Deputy PEO
Mr. Thomas Bagwell, Jr.

Deputy PEO ~ AL&T
COL Michael Receniello

Chief of Staff / Executive Officer
Ms. Linda Reichlmayr



Force Projection
190 Programs

PM: Ms. Patricia Plotkowski
DPM: Mr. Steve Roberts

- **Product Manager Bridging** — *Mr. David Marck*
- **Product Manager Combat Engineer/Material Handling Equipment** — *LTC Darrell Bennis*
- **Product Manager Force Sustainment Systems** — *LTC Daryl Harger*
- **Product Manager Petroleum & Water Systems** — *LTC Dariel Mayfield*
- **Product Director Army Watercraft Systems** — *Mr. Fred Williams*

Joint Combat Support Systems
210 Programs

PM: COL John Myers
DPM: Mr. Dennis Mazurek

- **Product Manager (USA) Joint Light Tactical Vehicles** — *LTC Wolfgang Petermann*
- **Product Manager (USMC) Joint Light Tactical Vehicles** — *LtCol Ruben Garza*
- **Product Manager Sets, Kits, Outfits & Tools** — *LTC Brian Tachias*
- **Product Director Test, Measurement, & Diagnostic Equipment** — *Mr. George Mitchell*

Mine Resistant Ambush Protected Vehicles
35 Programs

PM: COL Kevin Peterson
DPM: COL Jeffrey Carr

- **Product Manager MRAP - All Terrain Vehicle** — *LTC Coll Haddon*
- **Product Manager Joint Logistics** — *LTC John Conway*
- **Product Manager MRAP Vehicle Systems** — LTC Andrew Oderkirk
- **Product Manager Assured Mobility Systems** — *LTC Charles Dease*

Tactical Vehicles
98 Programs

PM: COL David Bassett
DPM: Mr. Tony Shaw

- **Product Manager Light Tactical Vehicles** — *Mr. Dennis Haag*
- **Product Manager Medium Tactical Vehicles** — *LTC Shane Fullmer*
- **Product Manager Heavy Tactical Vehicles** — *LTC Allen Johnson*
- **Product Director Armored Security Vehicles** — *LTC Kent Moorhouse*

Mission & Vision

MISSION

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

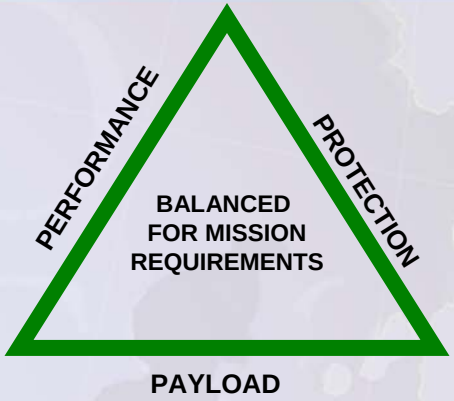
VISION

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

ARFORGEN: ARmy FORce GENeration

Overview of Portfolio Guidance

- **Army Level Guidance**
  - Support to the War
    - Deploy Ready Units
    - ONS/JUONS
    - Modifications to TWVs as requested by COCOM
  - Force Structure / Modularity Design
    - Large growth in TWV requirements
  - Balance the Army by 2011
    - Fill out the MTOEs
    - Correct Readiness



- **TWV Guidance**
  - TWV Strategy – The Four Tenets:
    - Emphasize the **mixed fleet approach** that spans the Iron Triangle of Protection, Payload and Performance
    - Move the Army to a fleet of TWVs that have **scalable protection** (integrated A-cabs and add-on armor kits)
    - Take maximum advantage of existing platforms through Recap, Reset and Product Improvement
    - Integration of MRAP into the fleet mix
  - TWV Investment Strategy
    - Balance the quantity, quality and sustainment of Army equipment throughout its life cycle to meet combat, training, generating force and homeland defense requirements with appropriate capabilities

Senior Leader Intent

- **Develop a Tactical Wheeled Vehicle Investment Strategy as soon as possible**
- **Ensure the Strategy provides guidance for FY10-11 execution of funding and sets the stage for POM 12-17 development**
- **Ensure Strategy provides guidance enabling the Materiel Enterprise to develop and execute a Fleet Management Strategy**
- **Migrate this process (Strategy and Execution) to other commodities**

Fleet Management Process

PROGRAM EXECUTIVE OFFICE COMBAT SUPPORT & COMBAT SERVICE SUPPORT

Baseline the Fleet

- Requirement
- On Hand Qty
- Fleet Age/Usage
- Condition

Critical Data:
-Age
- % deployed
- Mileage
Beyond usage limits

Army Investment Strategy

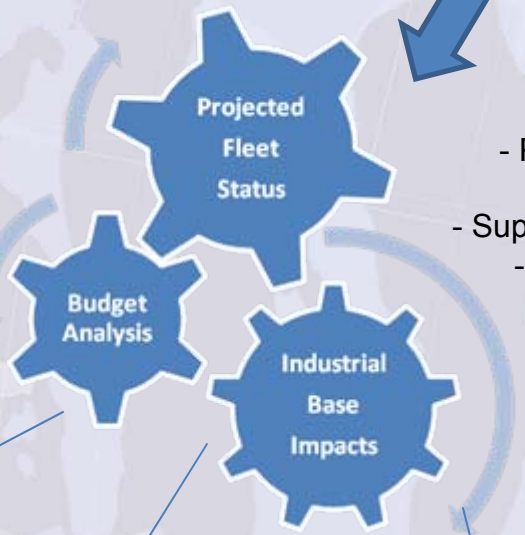
- Army objectives for each fleet
- Intended areas of risk

Investment COA's

Levers:
- % AAO Fill
- Acceptable Average Fleet Age
- Fleet Quality
- % Armored (A Kit/B Kit ratio)

Critical Data:
- Projected Average Age
- Effective EUL
- Supportability / Obsolescence
- Fleet mix/% Armored

Pilot Process for POM 12-17



Critical Data:
- Price of new
- Price/scope of RESET
- Price/scope of RECAP

Critical Data:
- OEM MSRs
- Depot capacity
- Executability

Intended as annual process consistent with budget cycle

New Production Plan

RECAP/Modernization Plan: 0 miles/0 years, capability improvements, OPA

Reset Plan: Return to pre-mission condition, OMA

Divestiture Plan

PROJECTED FLEET STATUS

Our Challenge

- **Long term**
  - Develop a comprehensive Tactical Wheeled vehicle strategy that is linked to the Strategic Planning Guidance, rooted in the anticipated operational environments the Army is likely to face and supports the various COCOM OPLANS.
  - Must integrate operational/tactical, acquisition, programmatic, sustainment and equipping/structure strategies.
  - The Tactical fleet must be looked at within brigades/units and across brigades and units as we equip consistent with Army Force Generation Model (ARFORGEN)
- **Near term**
  - Determine immediate requirement to sustain and modernize the current the tactical wheeled vehicle fleet and develop acquisition and programmatic strategies to support the requirements
- **Conundrum**
  - The Near-term strategy should be based on the Long term strategy … can we afford to wait?

The Strategy

has to be Prepared for….

- **Changes in Environment**
  - **Responsive to Natural Disaster, Regional Conflict**
  - **Quality Product with Accelerated Deliveries and Quantities**
  - **Create Contracts with Maximum Flexibility**
  - **Time = Seconds/Minutes/Hours NOT Days/Months/Years**
- **Changes in Technology**
  - **Ability to Keep Step with Technology Advances**
  - **The Army is serious about designing with Future Growth in Mind - Headroom -Improve Capability, Survivability, Network Communication and Reduce Burden on Soldier and Operating Costs**
- **Changes in Mission**
  - **Add on Armor's Burden on Vehicles, Payload Effects and System Reliability**
  - **Use the Feedback Information from Rotations to Influence Design and Joint Efforts**

Requirements – Strategic Overview

1. **Near term – Focus on supporting GWOT while at the same time preparing for the future**
2. **Long term – Focus on the fleet of tactical wheeled vehicles**
3. **Assumptions for Validation**
   - The Army has and will continue to have a requirement for Tactical wheeled vehicles across a wide variety of operational environments, including complex urban terrain, across the full range of military operations.
   - We are likely to face an asymmetric threat similar to those we are encountering today; therefore, the capability provided by current combat systems will have a role in future conflicts.
   - The current Tactical wheeled vehicles will have a useful role in the Army inventory for the foreseeable future while at the same time recognizing there are capability gaps which must be addressed (e.g. Light Tactical Vehicles)

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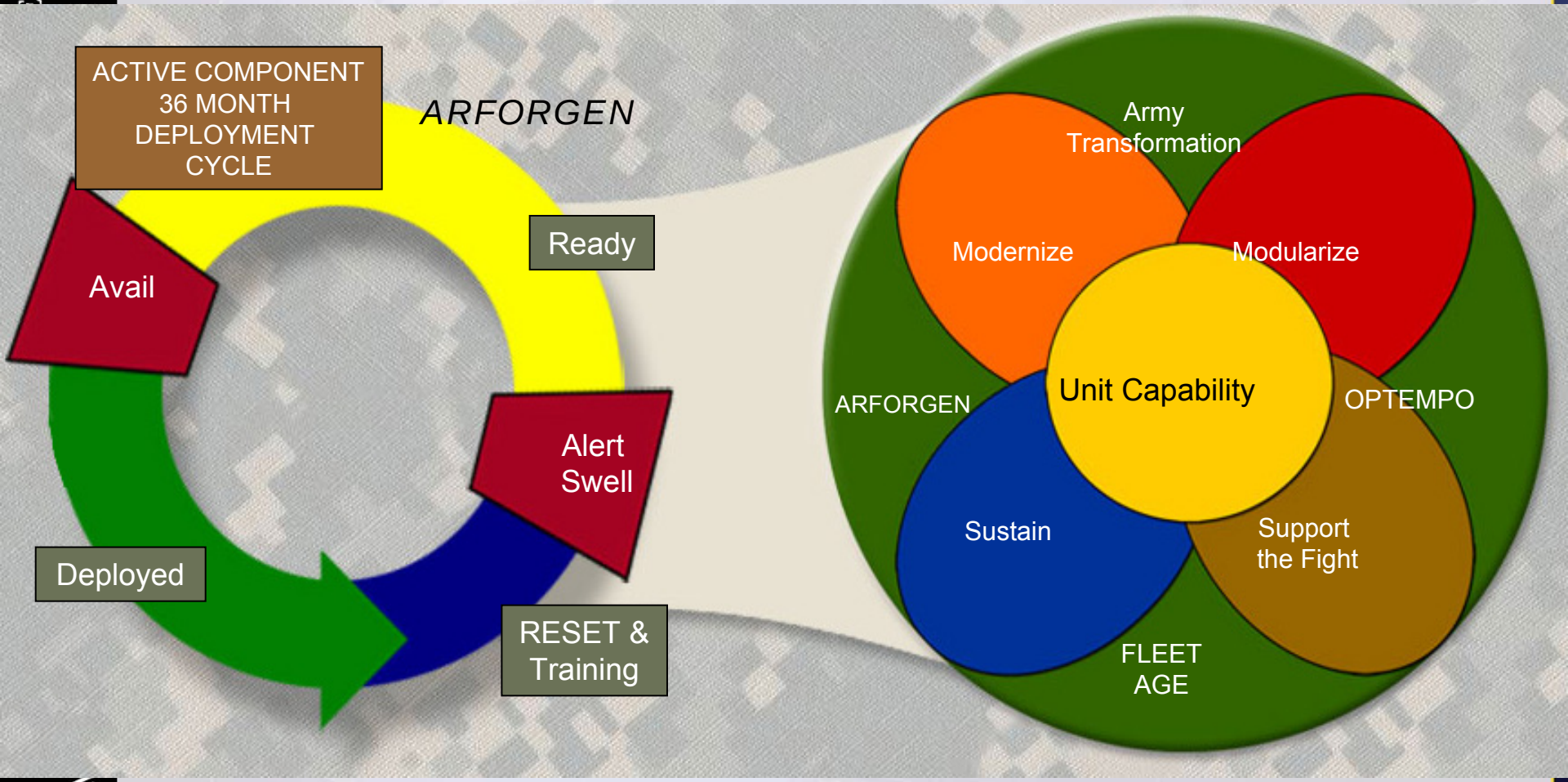
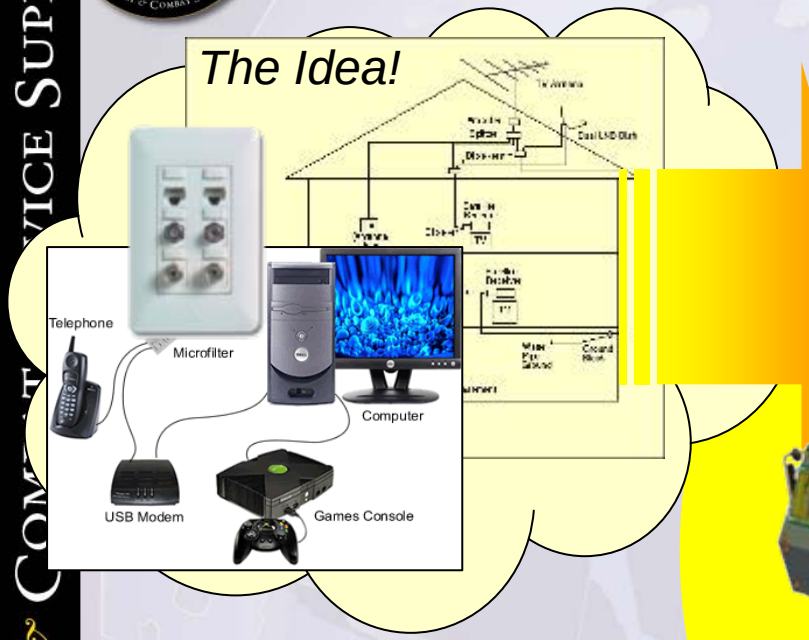

ACTIVE COMPONENT
36 MONTH
DEPLOYMENT
CYCLE
ARFORGEN
Ready
Avail
Alert
Swell
Deployed
RESET &
Training
Army
Transformation
Modernize
Modularize
ARFORGEN
Unit Capability
OPTEMPO
Sustain
Support
the Fight
FLEET
AGE

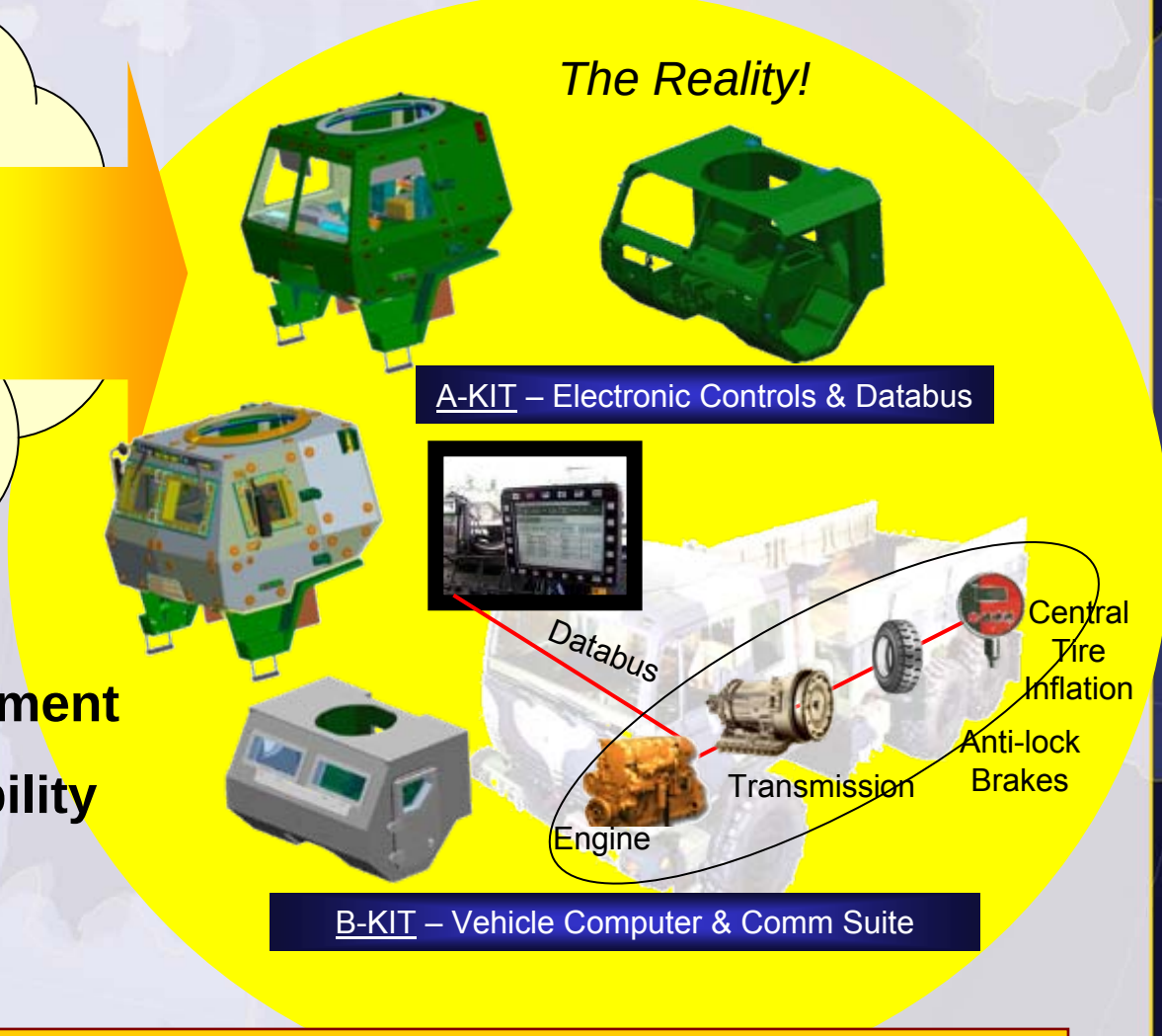
[illegible]

- The Army and USMC TWV strategy will be flexible
- Current wartime experiences will inform the Strategy
- Tenets of TWV Strategy
  - Take maximum advantage of existing platforms
    - Recap, Reset, Product Improvements
  - Plan integration of MRAP into the fleet mix
  - Emphasize a **mixed fleet approach** that spans the "Iron Triangle" of Protection, Payload and Performance
  - Move the Army to a fleet of TWVs that have **scalable protection** (integrated A-kit cabs and add-on armor B-kits)
- Transition to Joint Light Tactical Vehicle (JLTV) as it is ready

TWV Investment Strategy is nested within this Strategy

Strategy for Future Acquisitions: Rapid Change & Upgrade of Large Number of Systems





- **A Kit / B Kit Development**
- **Plug and Play Capability**
- **Modularity**
- **Flexibility**

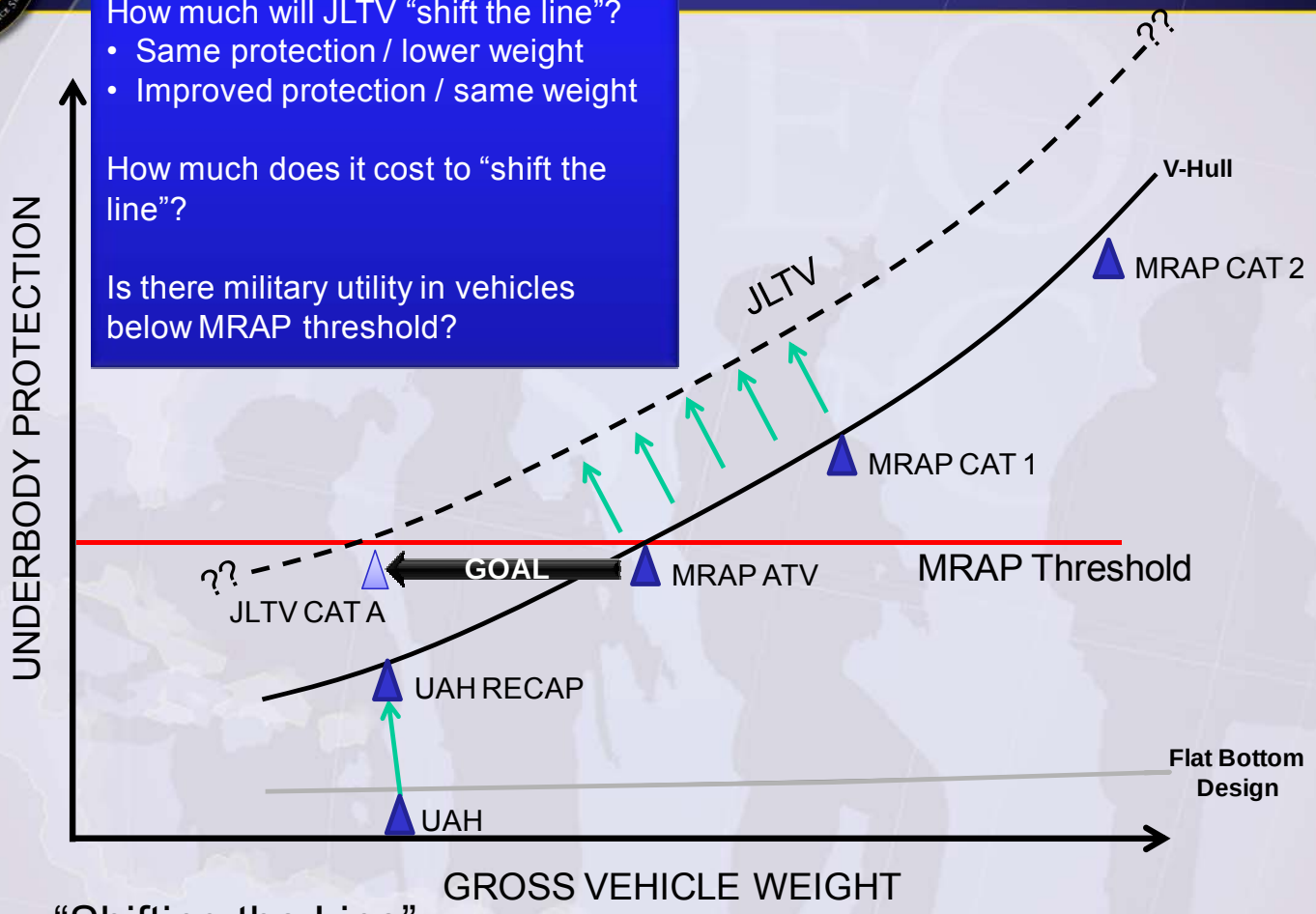
Giving the Commander in the Field the Ability to Adapt to Changes…to Mission…to Environment …to Technology!

LTV Protection Challenge

How much will JLTV "shift the line"?
- Same protection / lower weight
- Improved protection / same weight

How much does it cost to "shift the line"?

Is there military utility in vehicles below MRAP threshold?



"Shifting the Line"
- Geometry (standoff, shape)
- Materials (improved armor recipes)
- Mass (total vehicle weight)

TRADEOFFS

- Mobility
- Transportability
- Protection
- Cost

Capability Package (CP) 2011-2012 – Network Increment 1 Integration

Network Integration Kit (NIK)


Multi-Band Antenna (MBA) (2)


Personal Control Display Device (PCDD)


Power Amplifier Group


HMMWV Integration A-Kit


Joint Tactical Radio System Ground Mobile Radio Group


Low Pass (LPF) (1)

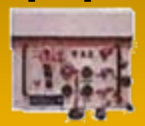

Integrated Computer System (ICS)


Multi-Band Filter (MBF) (2)

BDE, BN CDR & PLT LDR


CO CDR

Theater Provided Equipment (TPE)


Counter Remote Control Improvised Explosive Devices (RCEID) Electronic Warfare CREW V3


Boomerang


RHINO


Remote Weapon System (RWS) / Common Remotely Operated Weapon (CROWS)

Legacy C4I


Defense Advanced GPS Receiver (DAGR)


Force XXI Battle Command Brigade & Below (FBCB2)


Blue Force Tracker (BFT) 2 Antenna


VIC 3 Vehicle Intercom System (VIS)


Enhanced Position Location Reporting System (EPLRS)


Single Channel Ground & Aviation Radio System (SINCGARS)

Integration Team

PEO CS&CSS
PEO C3T
PEO IEWS
PEO I
PEO GCS
RDECs

Our Plan for Future Acquisitions

CURRENT FORCE → **FUTURE FORCE**

- **New**
  - JLTV
  - MRAP ATV

- **Continuous Improvement**
  - M915A5
  - PLS A1
  - HEMTT A4
  - HMMWV RECAP
  - FMTV A1P2
  - HET A1
  - MRAP

- **Sustain**
  - RESET
  - RECAP
  - Two-Level Maintenance

Building Blocks for Sustainment

Change in How We Do Business

- More Efficient Use of Limited Resources
- Correlate Business Strategies with Industrial (Commercial and Organic) Base Planning
- Continue to Pursue Industry/Organic Base Partnerships that Leverage Core Competencies
- Incorporate Lessons Learned and Good Business Practices
- Leverage Innovation in Government, Industry, and Academia
- Continue to RESET/RECAP the Current Fleet while Developing Future Vehicles
- Maintaining Government/Industry Communication in a Competition Environment

We Must Continue to Manage Tactical Fleet Consistent with ARFORGEN Model

Expedited Modernization Initiative Procedure (EMIP)

Expedited Modernization Initiative Procedure (EMIP)

Qualification

- Technology Readiness Level (TRL) 7
  - Actual Prototype System Demonstrated In Military-operational Environment
- Available For Production Within 6 Months
- Technologies New To Army (Not Already Demonstrated In Its Current Configuration)

Submit Technology Application Ideas (TAIs) And Demonstration Plan In MS Word Format To PM JCSS Mailbox: trucktech@conus.army.mil

- **Total # of TAIs submitted to date: 592**
- **Total # of Demos to date: 316**
  - 19 Demos conducted at Ft. Eustis
  - 21 Demos conducted at SANGB
  - 125 Demos conducted at Detroit Arsenal, Warren
  - 151 Demos conducted at Yuma

Next EMIP Demonstration Week

- 26-30 Apr 10 At SANG (Tentative)
- TAI Submission - Cutoff Date Is 12 Feb 10

http://peocscss.tacom.army.mil/EMIP/home.html

How EMIP benefits the Army… The Fire-Fighting Story

2007

Potential fire-fighting requirement identified in theater: NOV '07

MG Bartley issued initial guidance to PM SKOT to begin planning to support an Army firefighting requirement: DEC 07

2008

7 firefighting technologies demonstrated at Fort Eustis: EMIP Demo APR 08

Early prototypes designed using some of the technologies from EMIP AUG 08

2009

Prototype trailer-mounted and backpack fire-fighting systems deployed for user feedback in OIF/OEF: DEC 08

Man-portable Fire Fighting Apparatus

Trailer-mounted Fire Fighting Apparatus

EMIP informs the Army about emerging component technology that may address capability gaps… MARKET RESEARCH (NOT SOURCE SELECTION)

The results of every EMIP demo are captured in the Advanced Collaborative Environment (ACE) and are available to multiple Army organizations

Summary

- **We Are Living In Demanding Times; After Years Of Ramping Up Production To Unprecedented Rates, We Have Entered The Perfect Storm... *Budget Decline, Recovering Economy, Persistent Conflict, . . .***
- **Seeking Bold Innovative Design Solutions From The Beginning To Accommodate Change In Threat, Mission, Technology & Resources**
- **Sustain And Continue Improvement Processes. . .Fact and Data Based Decisions**
- **Breaking New Ground In The Rapid Expansion Of Our Systems Through Reset and Recap in support of the ARFORGEN**
- **We Need To Take Immediate Actions To Resolve Our Critical Strategic Issues and be prepared for the future**

Partner Together to Reach Higher and Achieve More to Meet the Challenges of Today's Rapidly Changing Requirements

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