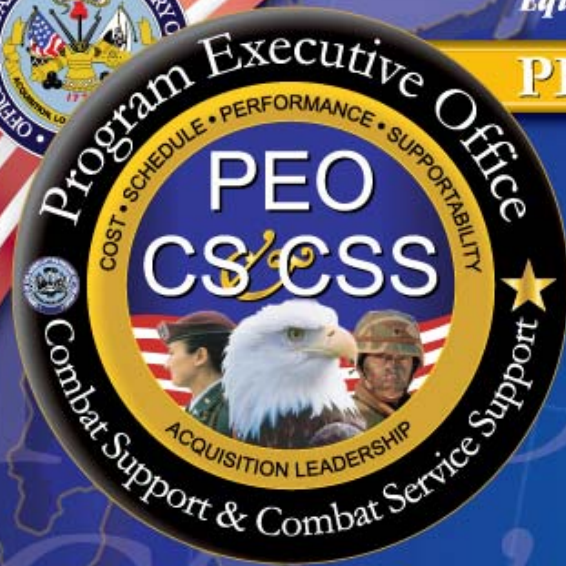


PEO CS & CSS  
Equipping our Joint Warfighters with the World's Best Capability, Today and Tomorrow

PEO CS & CSS



*Program Executive Office  
for  
Combat Support & Combat Service Support*

*NDIA 2007  
Tactical Wheeled Vehicle  
(TWV) Conference*

**JOHN R. BARTLEY**

*Brigadier General, USA*

*Program Executive Officer,*

*Combat Support & Combat Service Support*



# Agenda

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- **Challenges**
- **TWV Transformation Goals**
- **TWV Board of Directors (BOD)**
- **TWV Strategy**
- **Long-Term Armor Strategy**
- **Strategy for Future Acquisitions**
- **Partnerships**

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# Our Challenge

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## Our Challenge

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### Is 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



**"You're looking at a calendar while I'm looking at my watch"**

**LTG Russel L. Honoré**

**CG 1st Army on Hurricane Katrina Relief Effort**



- **Evolving Threat Environment  
Generating More Demands of Our  
Systems**
- **TPE Completing 3<sup>rd</sup> Major Rotation  
and Getting Tired.**
- **Accelerated Deployment of Multiple  
BDEs in FY07**



# Overarching TWV Transformation Goals

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## Four Main Warfighting Capabilities

### ➤ Safety:

- Reduce Non-Combat Casualties
- Crew Compartment Crush Resistance
- Improved Crew Restraints
- Human Factors (Seating, Visibility, Reduction of Operator Fatigue)
- Integrated Driver Vision Aids
- Collision Avoidance & Stability Control
- Anti-Lock Brakes
- Suppression of vehicle fires
  - Predictive Failure System

### ➤ Survivability:

- Armor Protection
- Force Protection/Self-Defense
- Vehicle Control Enhancement
- Reduced Aural & Visual Signatures

### ➤ Reliability/Maintainability Leads to Supportability:

- Increased Reliability
- Reduced # of Tools
- Reduced Non-Operator Organic Maintenance Tasks
- Reduced Operator Maintenance Tasks
- Reduced Scheduled Maintenance Tasks and Intervals
- Decreased Mean Time To Repair (MTTR)
- Reduced Operator/Maintenance Training
- Parts Commonality

### ➤ Distribution & Mission Enhancement:

- Force Sustainment
  - On-Board Power Generation
  - On-Board Water Generation
- Operational and Sustainment (O&S) cost savings
- Power Management/On-Board Power
- Deployability
  - Reduced Curb Weights
  - "Quick" Component/Kit Installation & Removal, and On-Board Storage
- Operational Range
  - Greater Distances
  - Increased Fuel Efficiency
- Distribution of Materiel, Equipment & People
- Network Centricity (C4ISR)
  - Integrated Hardware/Mass Storage Suite
  - Open Software Architecture
- Mobility
  - Improved Soft Soil Traversing Characteristics
  - Improved Vehicle Stability and Handling Characteristics
- Improved Vehicle Ride Dynamics (Vibration Reduction)

## Configuration Management & Control

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# Tactical Wheeled Vehicles (TWV) Board of Directors

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- **Mission:** *The TWV Board of Directors is a steering committee of key leaders that maintains oversight on the progress of transforming TWV strategy into reality and accomplishment of stated objectives.*
- **Standing Members:**
  - MG Roger Nadeau, CG, RDECOM
  - MG Mike Lenaers, CG, TACOM LCMC
  - BG John Bartley, PEO CS&CSS
  - BG James Chambers, Chief of Transportation
  - MG Timothy Mchale, Director, Center for Logistics Readiness (G4)
  - Mr. Al Resnick, Director, Requirements Integration Futures Center, TRADOC
  - COL Johansen, Focused Logistics Division, G8
- **At Large Members – Included, but not Limited to:**
  - CG, Army Combined Arms Support Center
  - CG, Army Test and Evaluation Command
  - CG, Army Ordnance Center
  - Commander, Combat Readiness Center
  - ASA(ALT) Deputy for Acquisition Systems, HQ Army Material Command, USA
  - ARMY G3, (DAMO-FMO) and G03, (DAMO-CI)
  - Director of Supply, Ordnance, and Logistics Operation Division, USN
  - Director, Logistics Plans, Policies, and Strategic Mobility Division, USMC
  - Director of Logistics Readiness, (AFILG), USAF
- **Method:**
  - Monthly Status Updates
  - Review, Deliberate, and Make Decisions Concerning Key TWV Issues



# TWV BOD FOCUS

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## ➤ Key Activities this Past Year:

- Directed the FTTS ACTD Effort and Transition
- Shaped the Platform Performance Demonstrations
- Accelerated JLTV Forward
- Focusing S&T efforts for TWVs
  - Survivability ATO
  - Hybrid Electric ATO
- Conducted Modeling & Simulation to Address Risk in overweight Environment



# TWV Strategy Changes

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2006 2007 2008 2009 2010

2020+

CURRENT FORCE

FUTURE FORCE

Current Fleet Upgrade

**FTTS ACTD  
Now Feeds  
JLTV Requirements**

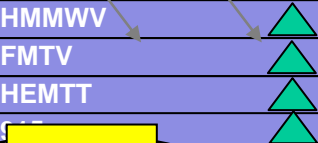
- ✓ Platform System Demonstration Complete
- Military Utility Assessment @ Ft. Lewis Mar 07
- JLTV CDD Approved 3QTR07

Technical Insertion

Expected modernization Initiatives

**Targeting Nov 07 for MS B for JLTV**

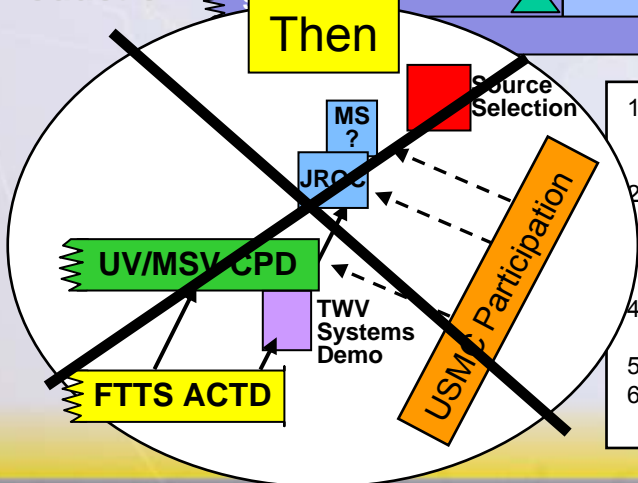
New Vehicle Production



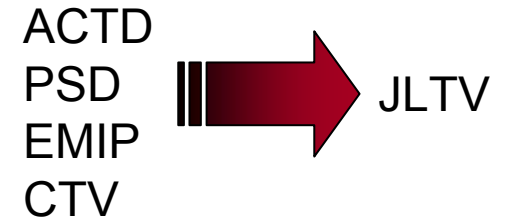
Light/Medium Truck Production  
(Follow on Contracts)

**Then**

**Now**



**Update TWV  
Strategy Report  
this Year**



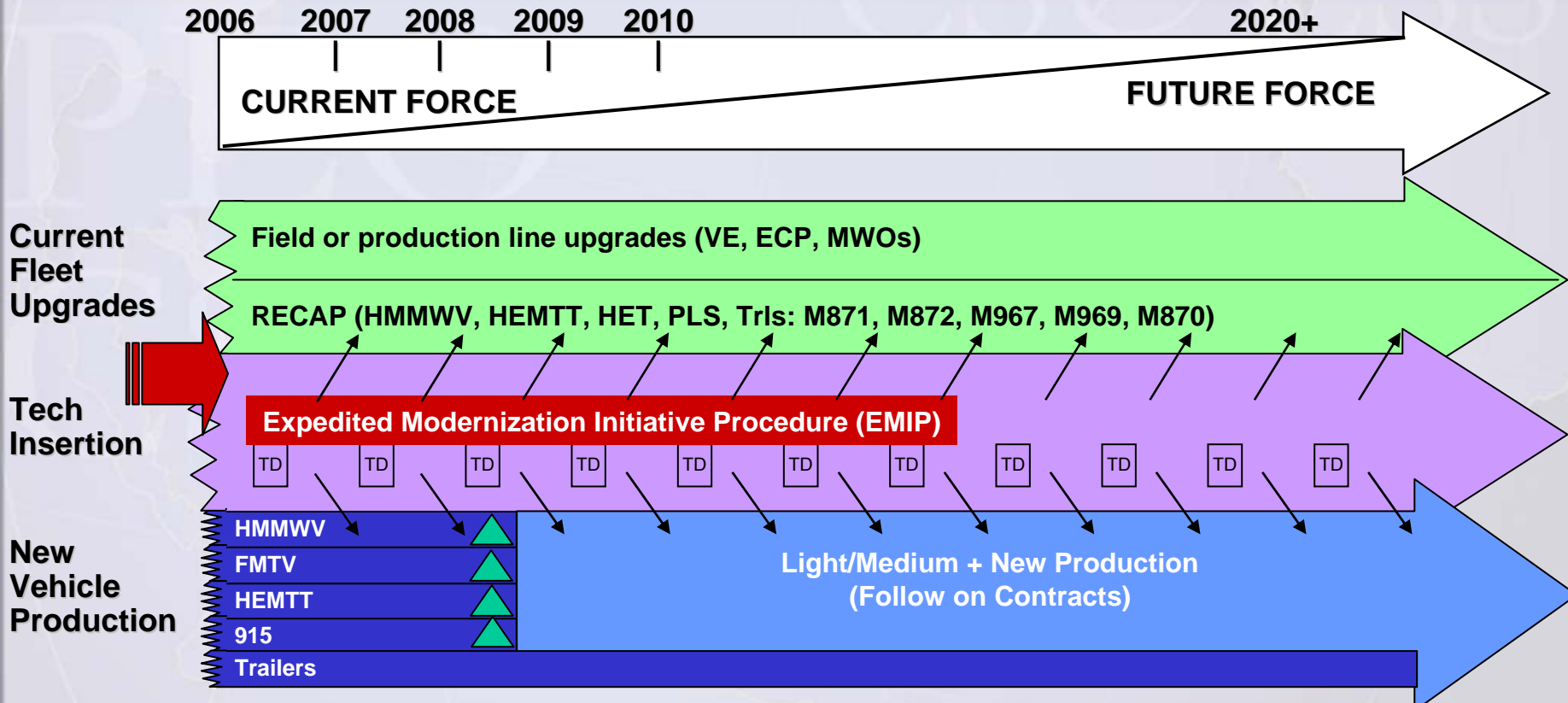
1. F...
2. P...
3. T...
4. J...
5. H...
6. Source Selection – Implements milestone decision selection of truck producers



# TWV Path Forward

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# Long-Term Armor Strategy (LTAS)

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➤ **LTAS is the second generation of TWV armoring strategies. It's separate and distinct from current near-term SWA AoA efforts which fulfilled an urgent need.**

## ➤ **LTAS**

- Employs a modular concept – “A-Kit and B-Kit”
  - Provides protection levels as mission dictates
  - Peacetime and wartime configurations
- Utilizes lessons learned from AoA



➤ **Program continues for Medium and Heavy Fleets**

➤ **Temporarily Suspended for Light Fleet Beyond M1151**

- GVW over maximum w/ Frag Kits
- Continue to improve and evaluate chassis enhancements
- JLTV will be designed to support the LTAS concept
  - JLTV/LTAS will continue to research lighter weight ballistic materials

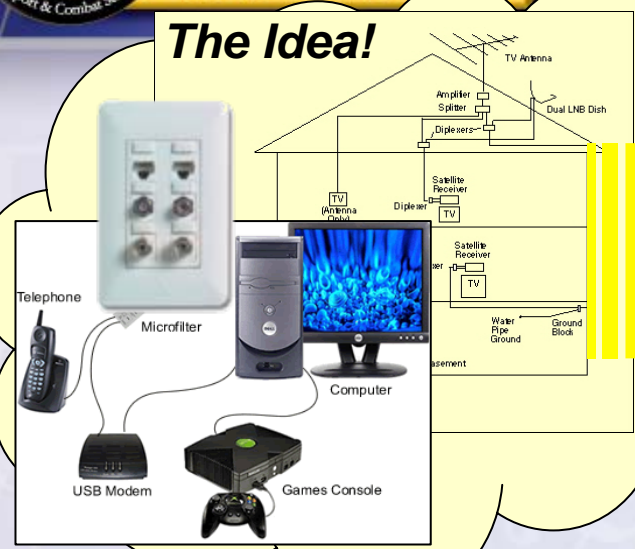




# Strategy for Future Acquisitions: Rapid Change & Upgrade of Large Number of Systems

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## The Idea!



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

## The Reality!



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

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# Accomplishing More with Partnerships

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- **Stand on Each Other's Shoulders to Reach Higher and Achieve More Together - Focusing Resources to Achieve TWV Transformation**
- **Rely on Each Others Core Competencies**
  - Complement vs. Duplicate
  - Leverage for Mutual Benefit
- **Extend Relationships with Other Industry Partners to Deliver More Capability**
  - EMIP
  - Platform Systems Development
- **Utilize Government Resources**
  - Easy Access to Labs & Technical Expertise

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# Thank You

## PEO CS&CSS

- **We are living in demanding times.**
- **Breaking new ground in the rapid expansion of our truck fleets through modularity and transformation.**
- **Need bold and innovative solutions to ever evolving threats to U.S. Forces across the globe.**
- **We will ask for more with the primary goal of ... Equipping Our Joint Warfighters with the World's Best Capability.**

***Thank You!***

*Equipping our Joint Warfighters with the World's Best Capability, Today and Tomorrow.*