Agenda

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

Evolving Threat Environment
Generating More Demands of Our Systems

- TPE Completing 3rd Major Rotation and Getting Tired.
- Accelerated Deployment of Multiple BDEs in FY07
Overarching TWV Transformation Goals

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

Equipping our Joint Warfighters with the World’s Best Capability, Today and Tomorrow
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
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

FTTS ACTD
Now Feeds
JLTV Requirements

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

Targeting Nov 07 for MS B for JLTV

Update TWV Strategy Report this Year

FTTS ACTD
Now feeds JLTV Requirements

CURRENT FORCE
FUTURE FORCE

2020+

2006 2007 2008 2009 2010

Current Fleet Upgrades

Tech Insertion

New Vehicle Production

Field or production line upgrades (VE, ECP, MWOs)

Light/Medium Production

(Follow on Contracts)

HMMWV
FMTV
HEMTT

1. Platform System Demonstration Complete
2. Military Utility Assessment @ Ft. Lewis Mar 07
3. JLTV CDD Approved 3QTR07
4. JLTV Requirements Now Feeds FTTS ACTD
5. Then Update TWV Strategy Report this Year
6. Next Source Selection – Implements milestone decisions, selection of truck producers
TWV Path Forward

Current Fleet Upgrades
- Field or production line upgrades (VE, ECP, MWOs)
- RECAP (HMMWV, HEMTT, HET, PLS, Trls: M871, M872, M967, M969, M870)

Tech Insertion
- Expedited Modernization Initiative Procedure (EMIP)

New Vehicle Production
- HMMWV
- FMTV
- HEMTT
- 915
- Trailers

Light/Medium + New Production (Follow on Contracts)

2006 2007 2008 2009 2010 2020+

CURRENT FORCE FUTURE FORCE
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

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!
Accomplishing More with Partnerships

- 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
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!