Modernizing our Mounted Force

• More Relevant and Ready Army
• More Capable and Modern Force
• More Stable and Predictive Lifestyle
AGENDA

• Situation
• Emerging Modernization Strategy
• Modernization Efforts
• The Way Ahead
• How Can You Help
• Questions
What Has Changed
Complex Environment – Persistent Conflict

Globalization
“Interdependent economies, Porous Borders, Decline of the Nation-State”

Complexity of Adversary
“Consortia of state and non-state actors”

Respond to Natural Disaster
“Foreign and Domestic”

Technological Advances
“Serious Implications to the Force”

Information Operations
“Information Revolution… The Death of Time & Distance”

National Security
“Country Specific to Global”

- '60's – 100 kbs SATCOM
- '90's – 192k bps
  Networked Computers
- 2010 – 1.5 Trillion kbs
  Wideband Data links
The Changing Threat to Mounted Force

- Increased urban operations
- Rapidly evolving Tactics, Techniques, and Procedures
- Instantaneous and distributed communication
- The fight for the information domain
- Proliferation of better weapons
  - Improved ammunition and sights
  - Small and medium caliber enhancements
    - Increased ranges and accuracy
    - Target exposed crewmen
  - Rocket Propelled Grenades (RPGs)
    - Combat proven in urban setting
    - Widely proliferated
  - Improvised Explosive Devices (IEDs)
    - Restrict mobility
    - Target all platforms
  - Explosively Formed Projectiles (EFPs)
  - Long range ATGM
Modernizing our Mounted Force

- Maneuver rather than Infantry, Armor, Artillery…
- Focus on formations rather than systems
- Develop an integrated approach across the formation and across the Maneuver Force
- Keep a long term view to 2024 and beyond
Evolving Army Modernization Strategy

- The Army must remain the dominant Landpower on earth with full-spectrum capabilities
- The Army Modernization Strategy applies to current and future force – Soldiers will have the best equipment available, fielded as rapidly as practical
- Four essential elements
  - Rapidly field the best new equipment to our forces in contact
  - Upgrade and modernize existing modular formations, ensuring their ability to remain relevant while fighting along side the FCS BCT equipped force
  - Incorporate new technologies derived from Future Combat Systems (FCS)
  - Field the Future Combat Systems Brigade Combat Teams Soldier as a System, and the LandWarNet
    - First Future Combat Systems BCT in 2015
    - 5 x FCS in 2020
    - 15 FCS BCT by 2030
    - Balance resourcing, production and fielding of current equipment with Future Combat System
US Army Operating Concept for Tactical Maneuver 2015 – 2024

- Concept applies equally to all types of BCT
- Key ideas:
  - Simultaneous and continuous operations
  - Decisive maneuver
  - Routine employment of expanding Joint capabilities
  - Self-synchronization
  - Cooperative engagement
  - Quality of firsts
- Required capabilities (selected examples)
  - Network enabled battle command
  - Precision munitions
  - Improved mobility and agility
  - Improved range
  - Force protection and survivability
HBCT Modernization Efforts

- Next Generation FLIR
- Mast mounted sensors
- Common Remotely Operated Weapons Station (CROWS)
- 360 Degree Awareness
- Advanced Munitions
- Joint Light Tactical Vehicle (JLTV)
- Active Protection System (APS)
- Vehicle Health Management
IBCT Modernization Efforts

- LRAS3/next generation FLIR
- JLTV (Class B Recon Variant)
- APS
- Mast Mounted Sensor (MMS)
- Remote Weapons Station (RWS)

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SBCT Modernization Efforts

- Stryker block improvement
- LRAS3/next Generation FLIR
- Mast mounted sensors
- Remote Weapon Station
- JLTV
- Active Protection System
Spinout Technology

“Easy to say; hard to do.”

- RDT&E funding required
- Space, power, and weight claim issues with platforms (Abrams, Bradley, and Stryker)
- Integrated Spinouts add capability

Modernization goes beyond Spinouts
How Do We Get There?

- “Current to Future” not “Current vs. Future”
- Formation-based solutions
- Must have a method to get new technologies, not yet identified, to the field quickly
- Develop holistic survivability
- Design Integrated Logistics Architecture and systems
  - Increase reliability
  - Decrease Operations and Sustainment costs
  - Decrease logistics footprint
- Lighten each platform and the formation
- Must ensure interoperability across the entire force; commonality is second priority

“Current to Future” not “Current vs. Future”
What About the Soldier?
AMERICA’S ARMY: THE STRENGTH OF THE NATION™

How Can Industry Help?

- Common understanding of the complex environment – “Persistent Conflict”
- Develop innovative solutions that meet our requirements
- Demonstrate the realm of the possible
  - Capability demonstrators clearly illustrate technology readiness levels
- Our challenge – to develop requirements and capabilities concurrently
Questions?