



US Army Maneuver Center of Excellence Fort Benning, Georgia



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Deputy Director, Mounted Requirements



Mounted Portfolio



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- **Combat Vehicles**
 - Next Generation Combat Vehicle (NGCV)
 - Armored Multipurpose Vehicle (AMPV)
 - Abrams
 - Bradley
 - Stryker
 - Mobile Protected Firepower (MPF)
 - Light Reconnaissance Vehicle (LRV)
 - Ground Mobility Vehicle (GMV)
- **Vehicle Protection Suite (VPS)**
- **Cross Domain Dominance**
 - Artificial Intelligence and Autonomy
 - Sensor Fusion
- **Large and Medium Caliber Lethality**
- **Combat Vehicle to Crewman Interface**
- **Maneuver Robotic and Autonomous Systems (MRAS)**
- **Tactical Vehicles**
 - Mine Resistant Ambush Protected (MRAP)
 - MRAP All Terrain Vehicle (MATV)



Offsets in Tactical Ground Maneuver



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- Status Quo
Many Soldiers – many bullets – one kill
- First Offset – Nuclear Weapons for Deterrence
Fewer Soldiers – one big nuclear bullet – many kills
- Second Offset – Precision Weapons
One Soldier – one bullet – one kill



Offsets in Tactical Ground Maneuver



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• Status Quo 1

- Directed Energy / Energetics
- Power Generation and Management
- First Offset – Nuclear Weapons
- Integrated Vehicle Protection Suite
- Advanced Armor
- Maneuver Robotics and Autonomous Systems (MRAS)

Many Soldiers – many bullets

Fewer Soldiers – one big nuclear weapon

One Soldier – one bullet – one kill

• Third Offset – Robotics, Miniaturization, Big Data, ...

One Soldier – many bullets – many kills

Movement and Maneuver Functional Concept
What we must prepare to do...
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BLUF: As part of the Joint Force, Army forces deploy and transition rapidly from expeditionary movement to cross-domain maneuver with combined arms formations that operate semi-independently, enabled by mission command, to conduct joint combined arms operations and seize, retain, and exploit the initiative; defeat enemy forces; and achieve operational objectives consistent with national objectives.

4 Components of the Solution:

- Conduct Cross-Domain Maneuver
- Operate Semi-independently
- Conduct Continuous Integrated Reconnaissance and Security Operations across domains and echelons
- Realize Mission Command

EAB HQs:

- Manage campaigns and transitions;
- Integrate reconnaissance and security operations;
- Create shared understanding;
- Synchronize operations and shape OE for BCTs;
- Organize sustainment operations;
- Organize theater level consolidation of gains activities to create sustainable outcomes consistent with national objectives.

The diagram illustrates the transition from expeditionary movement to cross-domain maneuver. It shows three echelons: Support, Close, and Deep. Key elements include:

- Transition out of Contact:** Moving from an Initial Support Base (ISB) to a Follow-On position.
- Expeditionary Movement:** Represented by 'XXX' units moving from the ISB.
- Support Echelon:** Contains units 'XX' and 'X'.
- Close Echelon:** Contains units 'X' and 'X'.
- Deep Echelon:** Contains units 'X' and 'X'.
- Operations:** Indicated by red 'X' marks and arrows showing movement and engagement.
- Annotations:** 'Must Adapt to Execute...' and 'Must Retain Skills to...'

Maneuver Center of Excellence - Team of Soldiers, Families, and Civilians from the Best Army in the World!