



# 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. Expeditionary Movement (XXX) is shown as a large formation moving from left to right. As it transitions into the Close echelon, it becomes more dispersed and integrated with reconnaissance and security operations. In the Deep echelon, the formation is highly dispersed and operates semi-independently. Key elements include ISB (Intelligence, Surveillance, and Battle Positioning), APS (Advanced Protection Suite), and various units (XX, X, MAS, etc.) operating across different domains. The diagram also highlights the need to adapt to execute and retain skills during these transitions.

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