



U.S. ARMY



# ACM ABCT & Reconnaissance Breakout Session 2023 AUSA Chattahoochee Valley/Fort Benning & MCoE Industry Day 5-6 April 2022



COL Jason T. Kidder  
Director, Army Capability Manager  
Armored Brigade Combat Team and Reconnaissance

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# ACM-ABCT & Recon Mission



ACM ABCT/ RECON is the Institutional Army's centralized **integrator** for all capabilities across the DOTMLPF-P enterprise enabling ABCT and Cavalry formations to fight and win on any battlefield. Serving as the **Soldier's interface**, we **collaborate** with stakeholders (HQDA, Army Futures Command, FORSCOM, III U.S. Corps, all ABCTs and Cavalry formations, program/product managers, other ACMs, and TRADOC Centers of Excellence) to identify, develop, field, and assess holistic solutions – current and future – enabling **armored formations and career management field (CMF) 19 warfighters** to maintain capability overmatch, conduct cross-domain maneuver, and defeat any adversary during large-scale combat operations.

**Endstate:** Fielded ABCT and Cavalry with Soldiers that are experts on their platform and the employment of those platforms and formations. The formations are built for reconnaissance and security, shock effect, breaching, penetration, exploitation, destruction of the enemy, and to enable follow-on L or M BCTs to secure terrain.

**We are the voice of the Soldier!**

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# ACM-ABCT & Recon Future Investments

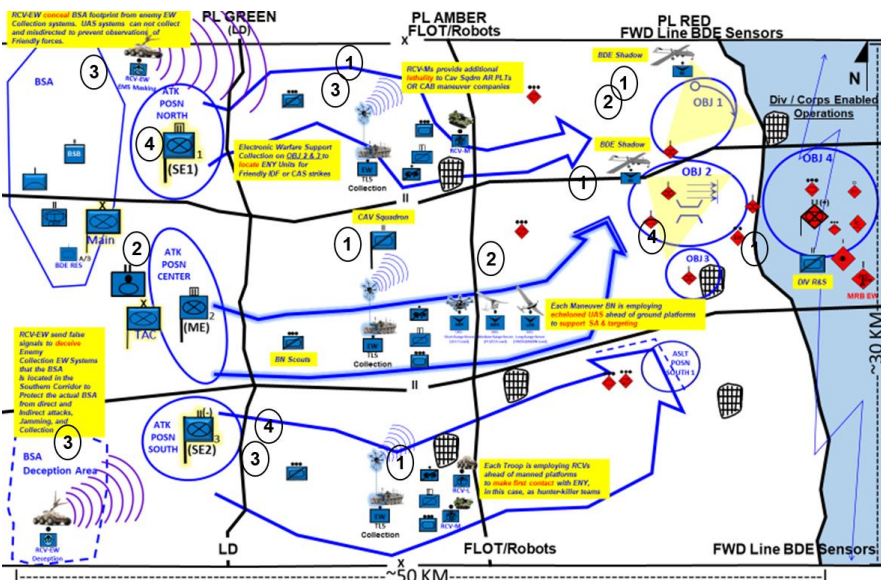
## 2030 MDO CAPABLE ABCT

### Key Future Investments

- Advanced manufacturing methods and materials to support modernization and readiness (artificial intelligence, additive manufacturing, reconfigurable, quantum, bio, and metamaterials)
- Robotic and autonomous systems (RAS) with integrated AI
- Advanced Hybrid Networks (radio frequency-optical-THz, quantum, resilient, self healing, and secure)
- AI-controlled sensing, including space-based and high-altitude sensors
- Directed energy (DE)
- Hypervelocity projectiles
- Propulsion and energetics
- Quantum sensing and information technologies
- Bio and bio-inspired technologies
- Human performance optimization
- Fuel cell technology, alternative fuels, and alternative water sources

### In 2030 the ABCT must:

- Fight across and through contested domains and environments.
- Move and maneuver dispersed.
- Operate decentralized and degraded.
- Integrate reconnaissance and security (R&S) across all domains.





# ACM-ABCT & Recon Desired Capabilities



- Alternative fuels / improved energy efficiency → powertrains and electrical power
- Auto / AI Boresighting
- Conduct Beyond Line-of-Sight engagements
- Conduct cooperative engagement – HMT / Human Machine Teaming
- Counter UAS, Counter Loitering Munitions
- Cross-Domain Obscuration and Deception; Decoys / Deception in all spectrums
- Expeditionary, Rapidly Mobile CP's
- Improved Reliability and Sustainability to support semi-independent operations for up to 7 days
- Improved Silent Watch capability (all vehicles, power management, energy sources)
- Increased Situational Awareness (SA) through sensor integration and common operational picture
- Turreted Mortar Systems
- UAS (optionally tethered/short range, Re-trans, Optics, CBRN Detection, Swarm/Counter Swarm, etc)
- Upgraded Live Fire ranges to accommodate increased weapon lethality; effective digitalization
- Vehicle Protection Suite (VPS) technologies; Increased armor protection at reduced weight
- Wireless Communications between crew / infantry / maintainers

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# Questions?

**Contact Info:**

alan.k.hummel.civ@army.mil  
carl.r.Johnson32.civ@army.mil  
peter.w.rose4.civ@army.mil

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