



ACM ABCT Breakout Session 2021 AUSA Chattahoochee Valley/Fort Benning & MCoE Industry Day 6-7 April 2022



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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**, **collaborates** 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 operators that are experts on their platform and the employment of those platforms and formations. The formations built for shock effect, breaching, penetration, exploitation, destruction of the enemy, and enable follow-on L or M BCTs to secure terrain.

We are the voice of the Soldier!

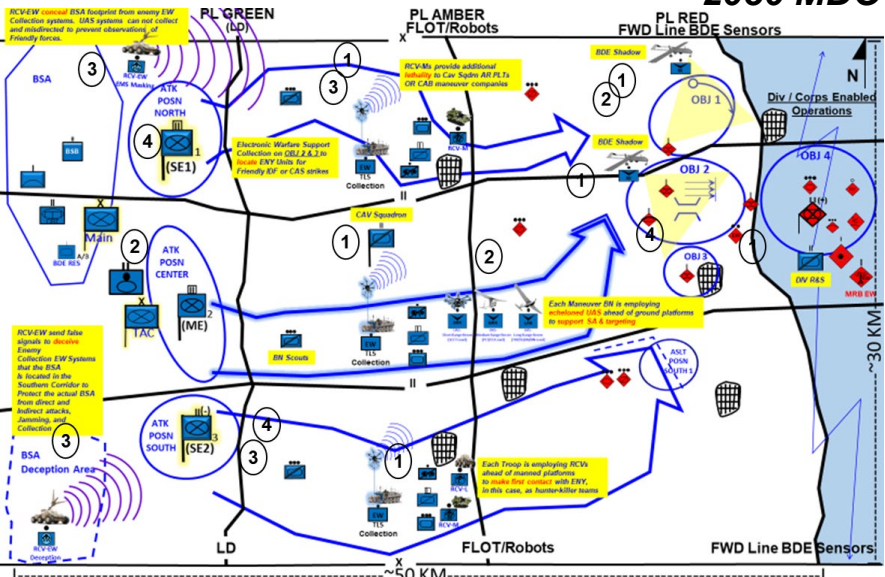
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ACM-ABCT & Recon Future Investments



2030 MDO CAPABLE ABCT



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.

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



ACM-ABCT & Recon Desired Capabilities



- Auto / AI Boresighting
- Optionally tethered UAS (Re-trans, Optics, CBRN Detection , Swarm/ Counter Swarm, and payloads)
- Counter UAS (VPS)
- Decoys/Deception in all spectrums
- Improve Silent Watch capability (Bradley power management, energy cells)
- Conduct cooperative engagement – MUM-T
- Alternative fuels/Improved energy efficiency - powertrains and electrical power
- Conduct Direct Fire Beyond Line-of-Sight engagements (LAL / LBL)
- Wireless Communications between crew/maintainers/dismounts
- Increased protection at reduced weight
- Increased SA
- Improve Reliability and Sustainability to support semi-independent operations for up to 7 days
- Improve Silent Watch Capability
- Cross-Domain obscuration and deception
- Vehicle Protection Suite (VPS) technologies
- Artillery delivered intelligence, surveillance, and reconnaissance (ISR)
- Expeditionary Rapidly Mobile CP's
- Turreted Mortar Systems

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Questions?

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