



U.S. ARMY



ACM ABCT Breakout Session

2020 AUSA Chattahoochee Valley/Fort Benning and MCoE Industry Day

29 April 2020



LTC Sean Davis

Director, Army Capability Manager

Armored Brigade Combat Team and Reconnaissance



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ACM-ABCT Mission

ACM ABCT/ Reconnaissance & Security (R&S) is TRADOC's centralized **integrator** for all capabilities across the DOTMLPF-P enterprise enabling ABCT and R&S formations to 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 R&S 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 capabilities overmatch, conduct cross-domain maneuver, and defeat any adversary during large-scale combat.

Endstate: Fielded ABCT and R&S formations that sustain capabilities overmatch and can win during large-scale combat.

We are the voice of the Soldier!



What does ACM-ABCT & Recon do?

VOICE OF THE WARFIGHTER

- Advocate and advise key decision makers across the Army as the “Users Representative.”
- Visit each ABCT and talk to leaders and soldiers, especially after deployments, to learn their mission essential needs and concerns that can inform ABCT & Recon modernization efforts.

CAPABILITIES INTEGRATOR

- Synchronize coordination between various organizations at all levels to address issues or concerns impacting the ABCT & Recon formations. Serve as the bridge to ensure operational needs are properly represented in Army Processes.
- Manage ABCT & Recon Formation capabilities across DOTMLPF-P.
- Design future ABCT & Recon organizational structure to enable future operational concepts and resolve capability gaps.
- Support combat vehicle platform programs throughout the acquisition process.
 - Support research and development with the Science and Technology (S&T) community.
 - Influence capability developers who write requirements.
 - Provide SME oversight for Abrams, Bradley and AMPV programs of record; proponent support to JLTV, M88, ABV, JAB, eHETs, and MSV.
 - Support operational testing and evaluation and fielding.



Director: LTC Davis (Acting)
LTC(P) Jason Rosenstrouch
(ETA Late Jun 2020)

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COL
Vacant

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LTC
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Sr. Tech Advisor
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ABCT

RECON

DOP/AMPV
NGCV/Network

Branch Chief
Ron
Kuykendall

AMPV MG
Vacant

AMPV Integrator
Jonathan
Pope

AMPV Integrator
Jason
Earhart

Network Integrator
Phil
Tiemeyer

TLS/S&T
Sustainment

Branch Chief
Carl
Johnson

Org Integrator
Dave
Hinzman

BN & Above Analysis
Derek
McCrea

CO & Below Analysis
Thomas
McKean

S&T
Greg
Ralls

Materiel
Integration

Branch Chief
Vacant

Combat
Platforms

A-TCM
MAJ
Liscano

Abrams MGs
SFC
Roberson

SFC
Frisbie

Bradley MG
SFC
Gamble

Abrams TADSS
Matthew
Nygren

Bradley TADSS
Angty
Xayahan

Combat
Enablers

A-TCM
MAJ
McCambridge

Sustainment & LOG
Anthony
Burford

PM MAS LNO
Wakeland
Kuamoo

CCWS LNO
Dave
Rogers

TCM RECON
MAJ
Hart

Deputy TCM
Pete
Rose

MSG
Avis

SFC DeBaun

SOD / PLT
Wayne
Cason

Materiel/Experiments
Bob
Silva

FLWKS LNO
Andy
Fowler





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Existing ABCT Challenges

- Secure, resilient, self-healing, AI and quantum-computing augmented network
- Seeing ourselves in all domains (Space, Cyber)
- Training in a Cyber Electromagnetic Activities (CEMA) and Electronic Warfare (EW) environment
- Operate effectively in dense urban environments
- Detect and defeat threat combat platforms at maximum distance
- Conduct counter-air operations/Counter Unmanned Aerial Systems operations (C-UAS)
- Reducing the Soldier's cognitive load
- Tactical Mobility and Sustainment
- Wet Gap Crossing



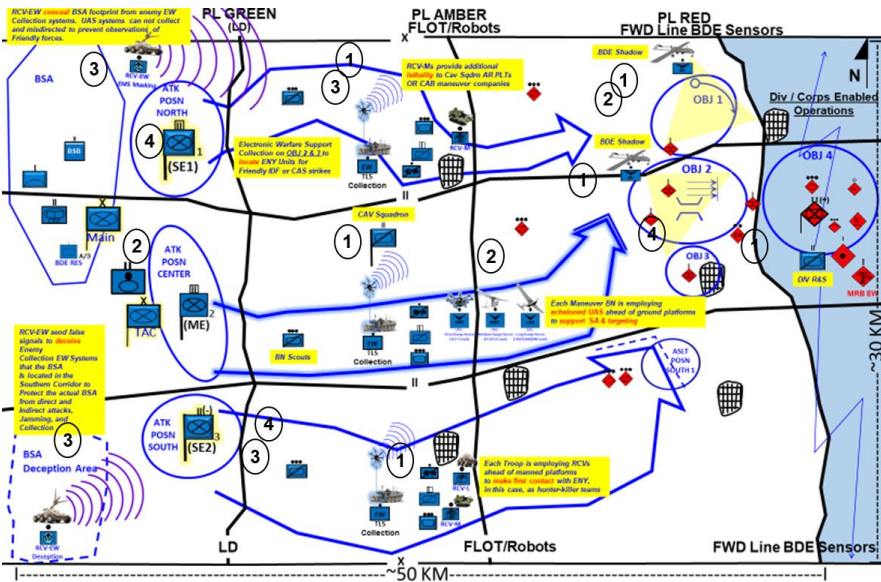
ACM-ABCT Desired Capabilities

- Conduct cooperative engagement – between Combat Vehicles, between Mounted and Dismounted elements, and between Air and Ground elements, manned and unmanned
- Alternative fuels/Improved energy efficiency - powertrains and electrical power
- Conduct Direct Fire Beyond Line-of-Sight engagements
- Wireless Communications between crew/maintainers/dismounts
- Increased protection at reduced weight
- Increased SA
- Crew 360-degree SA
- Increased Driver Awareness capabilities
- 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)
- Mobile Command Posts
- “Smart” mines-Close Terrain Shaping Obstacles
- Turreted Mortar Systems



ACM-ABCT Future Investments

2028 MDO CAPABLE ABCT



In 2028-2040 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



Questions