INDUSTRY DAY



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ACM-IBCT – Who we are and what we do

IBCT 2020

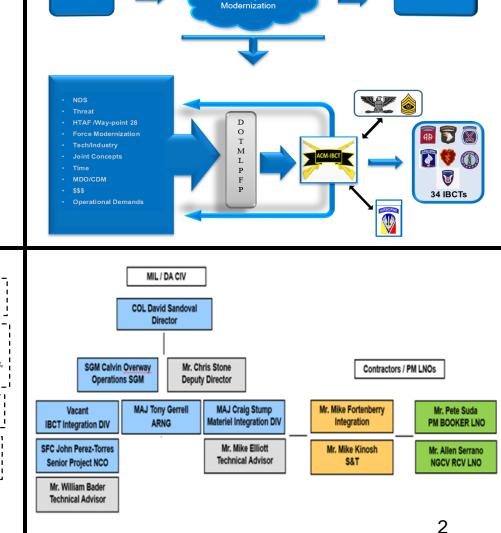


ARMY 2030/2040

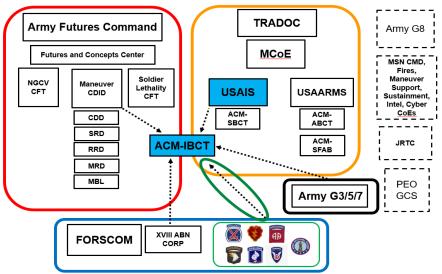
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ACM - IBCT integrates and synchronizes requirements across the dimensions of Doctrine, Organization, Training, Materiel, Leadership and education, Personnel, Facilities and Policy for 34 Infantry Brigades, both Active Component and National Guard, to ensure success on the battlefield.

We are the voice of the Warfighter. We advocate and advise ASL as the 'user representative'



Army



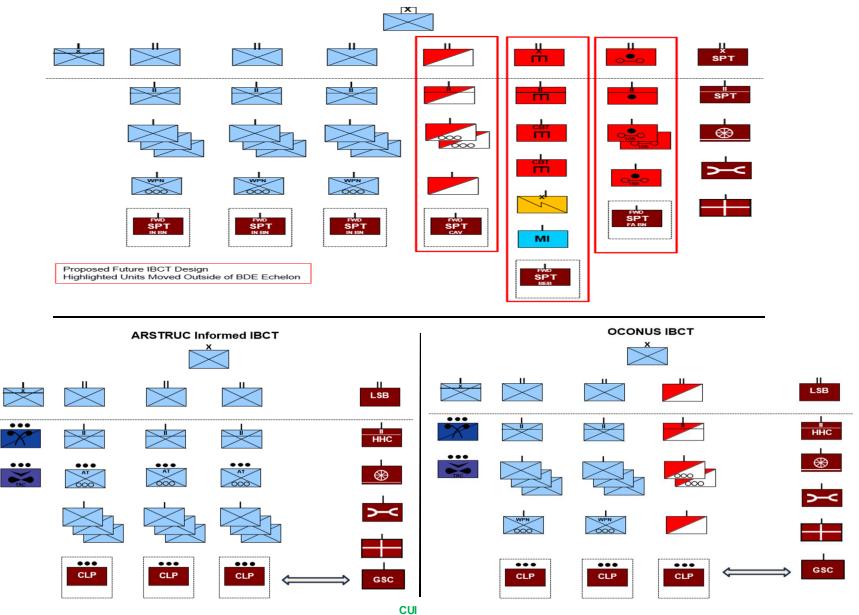


IBCT Force Design

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BCTs - 2030 / 2040



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In order to meet threats and operational challenges in 2030 and beyond, the Light Infantry formation must continue to be the most strategically deployable formation, increase tactical and operational mobility, and possess enhanced lethality to decisively and repetitively win battles and engagements to deter, destroy, and defeat enemy forces in all environments and a variety of complex terrain.

- The purpose of the BCT is to win the close tactical fight
- The BCT fight remains centered on Combined Arms Maneuver across multiple domains
- The BCT must bring together capabilities in all domains to win the close fight
- Required capabilities designed to enhance the BCT in LSCO includes:
 - Airspace Defense (Counter-UAS)
 - > Lethality: Direct, Indirect, Beyond-Line-of-Sight (BLOS) munitions
 - > Multi-Domain Sensing (Data) Increase situational awareness and understanding across all echelons
 - Survivable & Reliable C2 Dismounted / Mounted Mission Command, Extended Range, Trained Experts
 - Robotic Enabled Maneuver at the tactical edge Ground & Air
 - Reduced Soldier Load / Power Generation = Endurance

IBCT's must be able to sense more broadly and deeper (data centric), deliver precision and suppression lethality from the ground and air (mass) out beyond line-of-sight, and protect itself from immediate threats

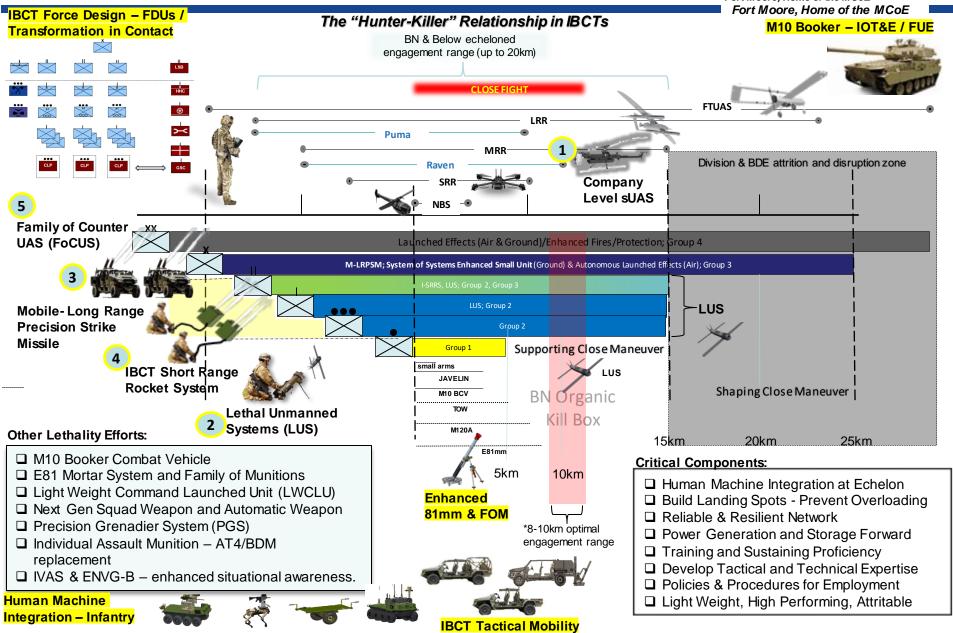


ACM IBCT Modernization Efforts

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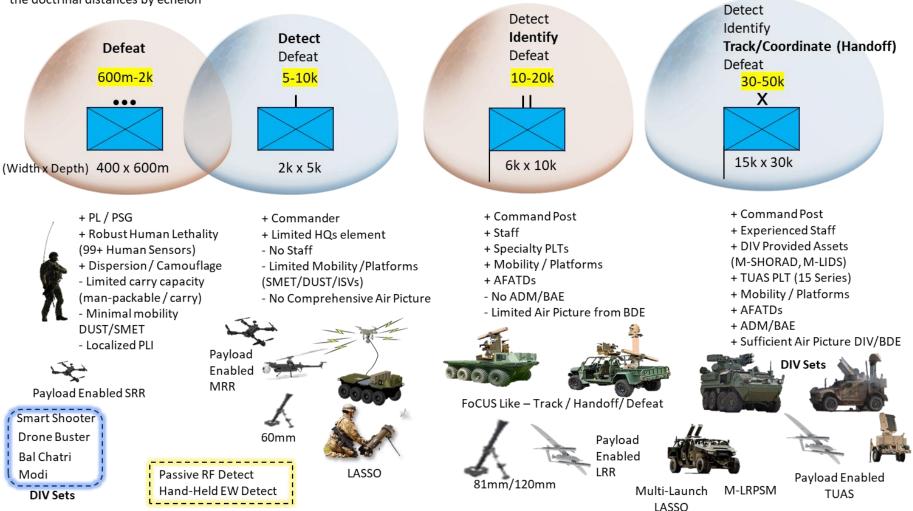


IBCT C-sUAS Fight



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Detect / Defeat is range is determined by the lead edge of the doctrinal distances by echelon

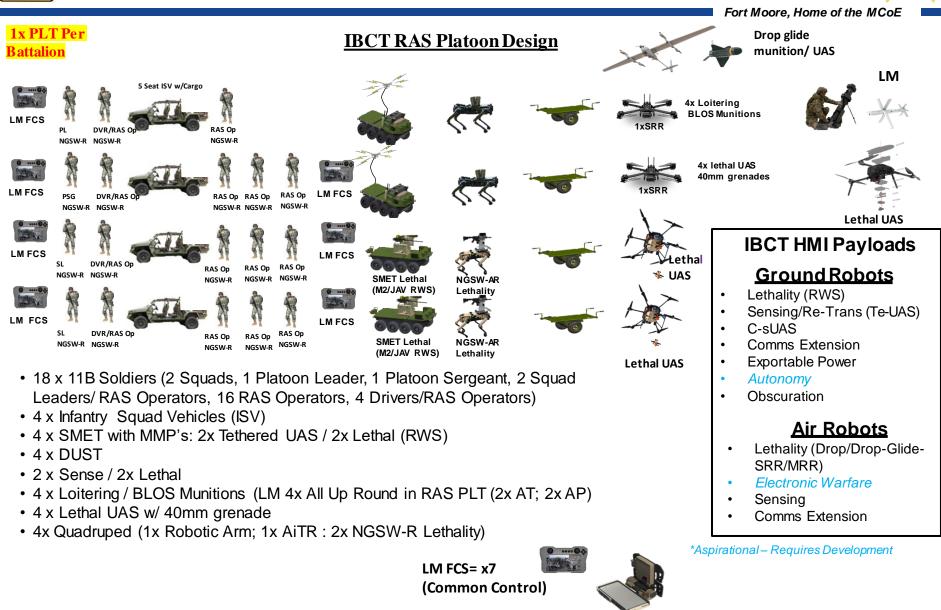


Maneuver Center of Excellence - Team of Soldiers, Families, and Civilians from the Best Army in the World!



Light Infantry Battalion Robotics & Autonomous Systems – RAS (2030)







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	Airspace Defense	I	Lethality
•	Enhanced Understanding of the Airspace (25k)	•	Ground and Air Delivery Systems – Increase Stowed and reach back
•	Detect, ID, track, and defeat sUAS through overmatch		killing capability
•	Confuse, Evade, and Deceive the Enemy	•	Precision NLOS/BLOS Capability at BN Level and Below
•	Smaller Sensors with Greater Range (Dsmt/Mtd)	•	Concentrated Direct / Indirect Fire at Decisive Points
•	Integrated Counter-UAS Capabilities at BCT and below	•	Maximize Existing Systems
•	Improve survivability by providing CDRs early warning decision air	•	Increase Organic Networked Sensor to Shooter Capabilities
	support and kinetic and non-kinetic solutions	•	Leverage Cooperative Engagements - Target Handoff
•	Integrate CsUAS Capability into Existing Systems	•	Lightweight man-portable (ABN, AASLT)
•	Multi-Spectrum Camouflage	•	Leverage Lethal Unmanned Systems (Ground & Air)
•	DSMT UAS Detect and Defeat		
	All Domain Sensing		Survivable/ReliableC2
•	Provide Commanders Decision Space	•	Responsive and Resilient Communication Architecture tied to
•	See Yourself and see the Adversary in Depth		Integrated Tactical Network (ITN) / SBU-E
•	Increase Situational Awareness beyond FLOT	•	Networks Enabled by Over-the Air Management Functions
•	Incorporated Semi and Full Autonomous Capabilities	•	Man-Packable Beyond Line Of Sight
•	Provide Timely Overmatch		(BLOS) Expeditionary Mission Command Systems
•	Provide CDRs greater awareness, protection and decision space	•	Man-Portable Lightweight Secure Voice,
	at echelon tied to the ability to decisively shape the environment		Data, and PLI Capable Radio w Extended Ranges
	with precision and suppression lethality options	•	Assured – Position, Navigation, and Timing
		•	Smaller, Agile Command Post at Echelon
		•	sUAS Modular Mission Payload Communication Extension (T-
			UAS)



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Robotic Enabled Maneuver

- Enhanced understanding of the airspace; confuse, evade, and deceive the enemy
- Incorporate an integrated and layered network of ground and air sensors and effectors
- Increase the decision space to employ organic or higher headquarters' Lethality
- Robotics Enabled Sustainment at all Echelons
- Intuitive Systems that are Non-MOS Specific

Soldier Endurance

- Ability to Operate over Greater Distances, and in all Environmental Conditions
- Robotic assisted Weight Distribution and Logistics (SMET, JTAARS, RCV)
- Organic Class I (H2O) Production Capability
- Limited Organic Mobility (ISV, JLTV)
- Lightweight Weapons Systems with Multi-Purpose Utility
- Small unit power generation (mounted/dismounted)





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Questions

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