

INDUSTRY DAY



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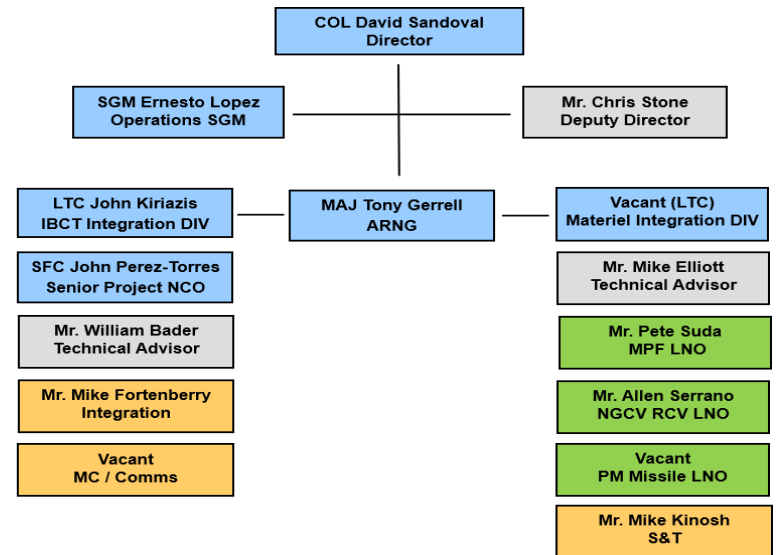
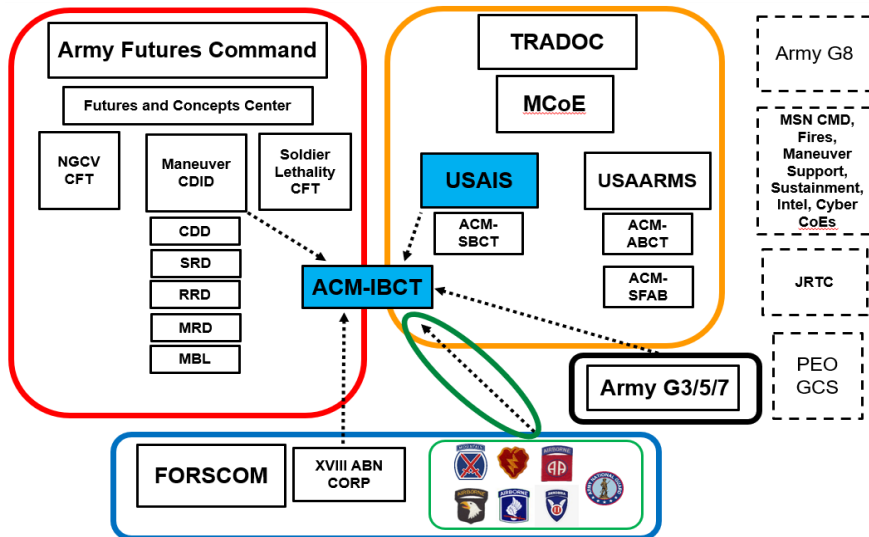
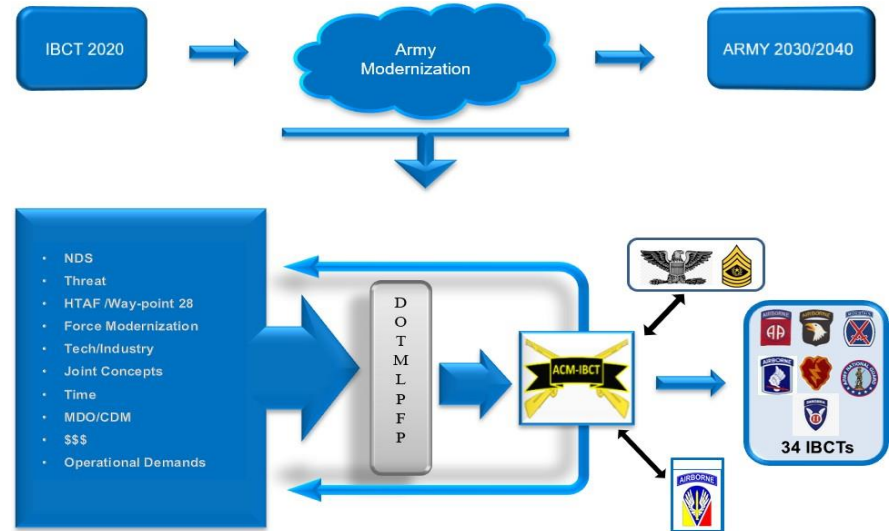


ACM-IBCT – Who we are and what we do



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'





IBCTs – 2030 / 2040



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 (I, M, or L) is to win the close tactical fight
- The BCT fight remains centered on Combined Arms Maneuver
- The BCT must bring together capabilities in all domains to win the close fight
- Required capabilities designed to enhance the IBCT in LSCO includes:
 - Airspace Defense (Counter-UAS)
 - Lethality: Loitering Unmanned Systems (LUS), Beyond-Line-of-Sight (BLOS) munitions
 - All Domain Sensing – Increase Situational Awareness and Understanding
 - 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 / Water Purification = Endurance

IAW the FY 19 CSA endorsed CAC LSCO Study and the FY 20 CAC CG - develop Force Design Updates (FDUs) in order to identify the requirements and resourcing needed to address the LSCO at echelon within the IBCTs.

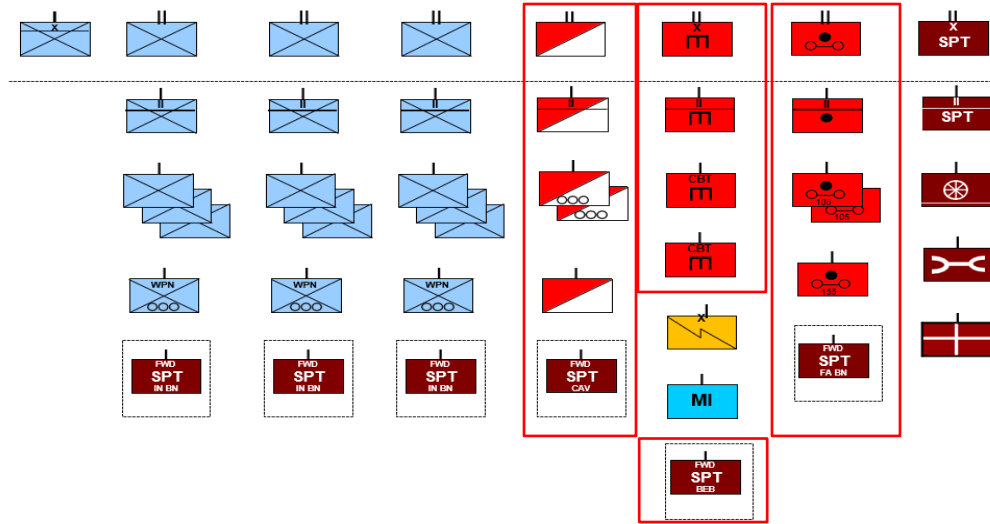


Current IBCT & Future Force Designs



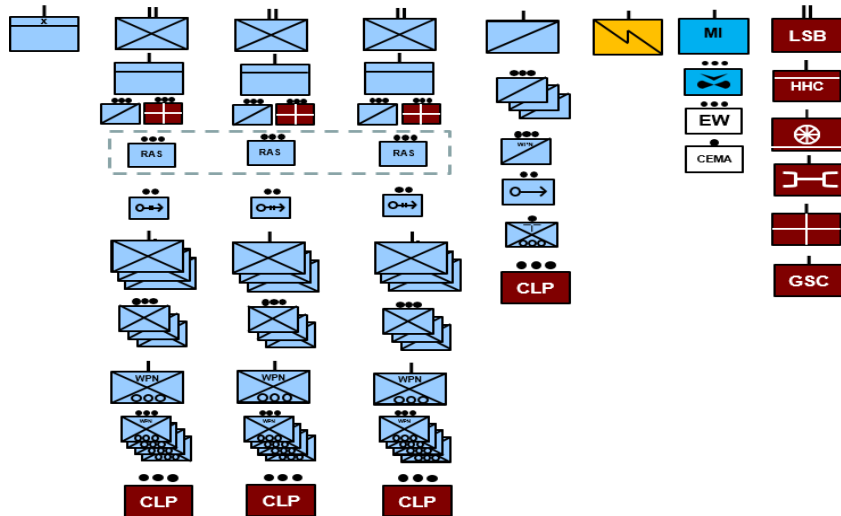
IBCT Organizational Design

X 353/43/3914//4310



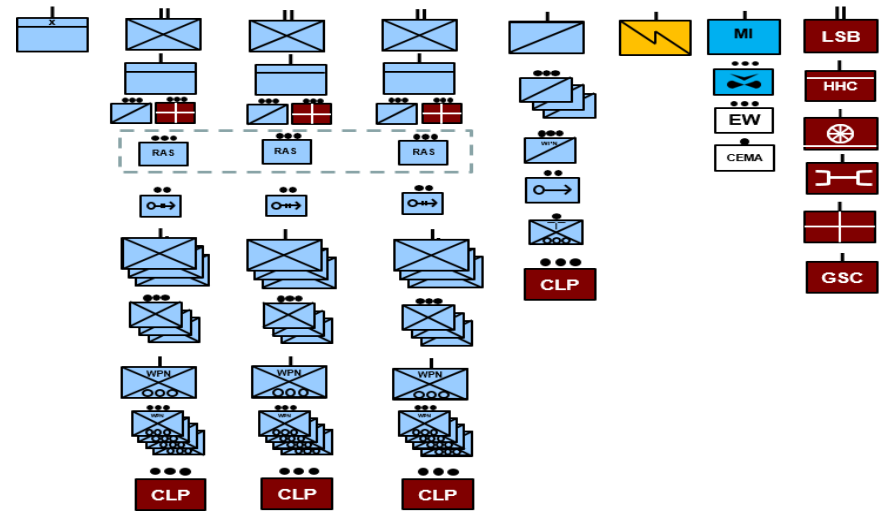
M-BCT

X 3040



L-BCT

X 3019

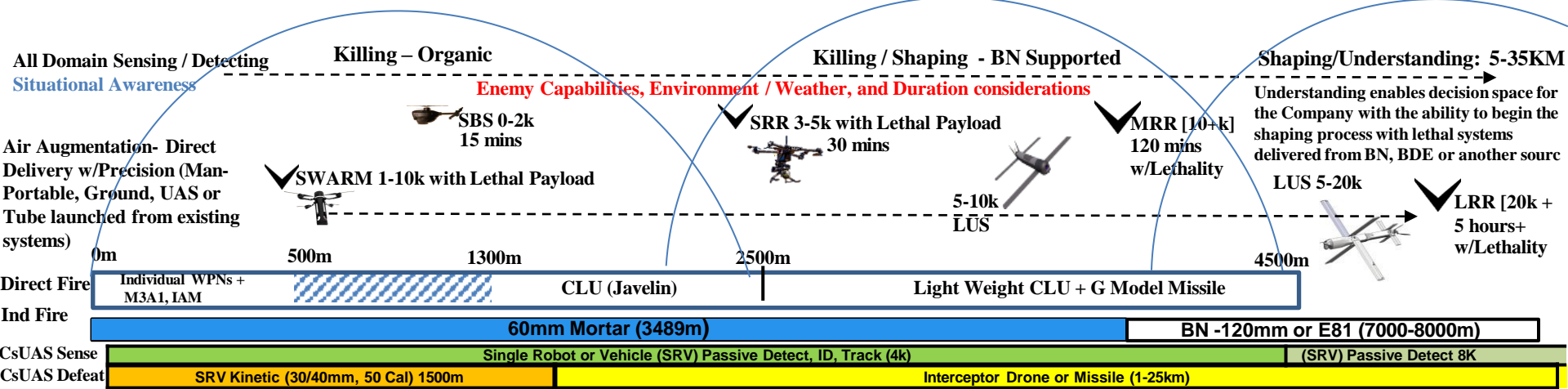
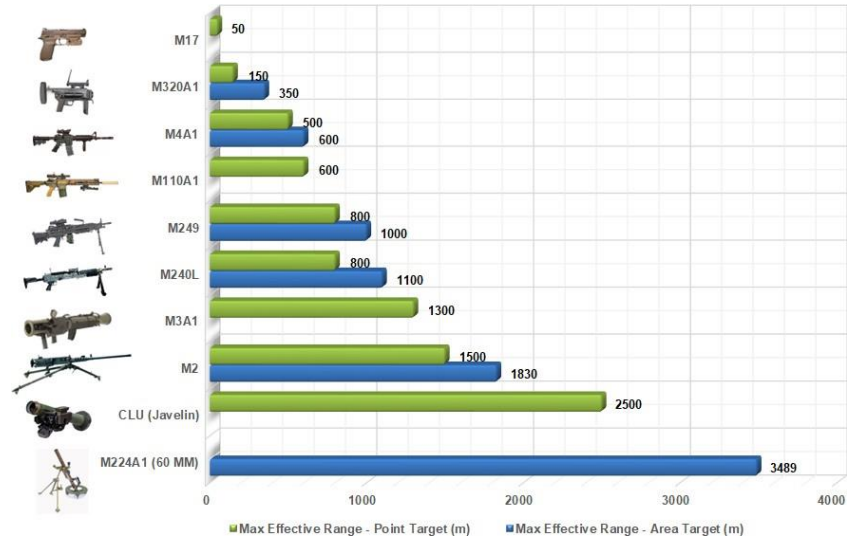
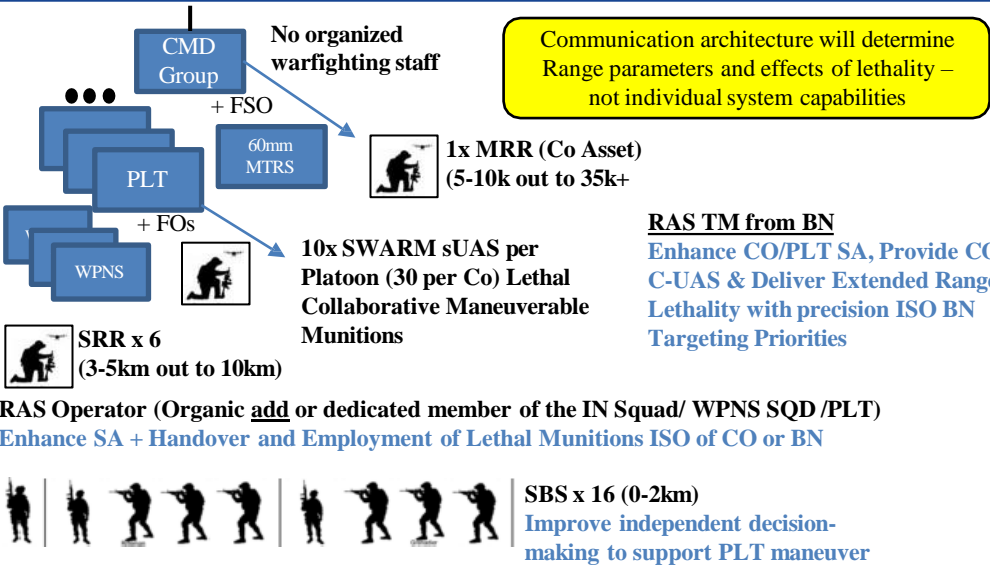




Light Infantry Company Fight



Fort Benning, Home of the MCoE



Extends logistical / power & energy resources from 72 to 96 hours (Co).
 Enabler for aerial platform recharging and ground-launched effects, i.e. SWARM & Lethal Unmanned System (LUS).

Terrain, Climate, and Duration considerations

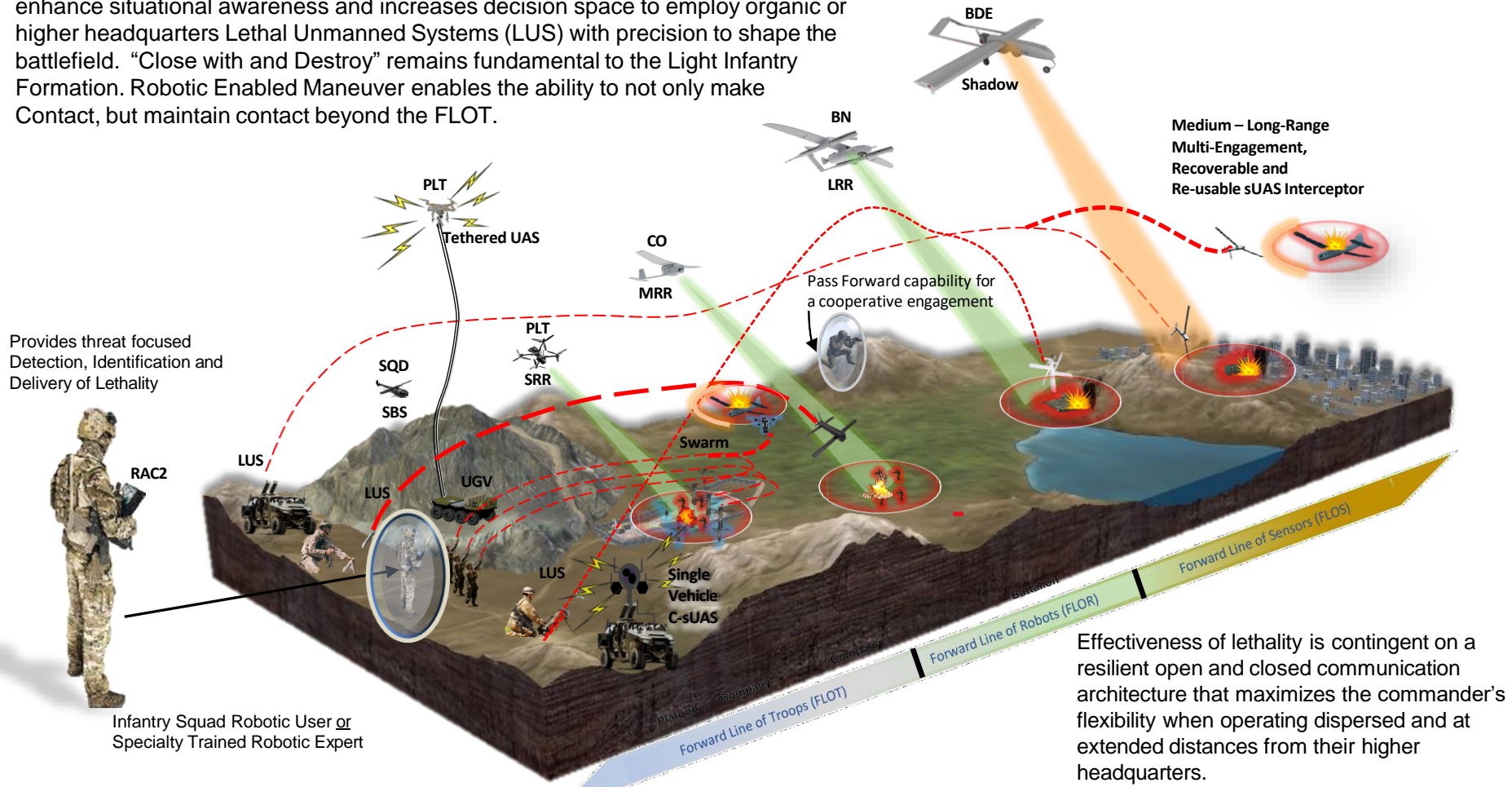


Robotics Autonomous Systems (RAS)



Fort Benning, Home of the MCoE

Robotic Enabled Maneuver at the Tactical Edge: Equipped with ground and air Robotic Autonomous Systems (RAS), which are integrated as part of a layered network of sensors and shooters, the Infantry Soldier provides CO/BN/BCT Commanders a detection and identification capability at extended range. This will enhance situational awareness and increases decision space to employ organic or higher headquarters Lethal Unmanned Systems (LUS) with precision to shape the battlefield. “Close with and Destroy” remains fundamental to the Light Infantry Formation. Robotic Enabled Maneuver enables the ability to not only make Contact, but maintain contact beyond the FLOT.



Provides threat focused Detection, Identification and Delivery of Lethality



Infantry Squad Robotic User or Specialty Trained Robotic Expert

Effectiveness of lethality is contingent on a resilient open and closed communication architecture that maximizes the commander's flexibility when operating dispersed and at extended distances from their higher headquarters.

The Soldier is the “Center of Gravity” on the battlefield



Focus Areas



Airspace Defense

- Enhanced Understanding of the Airspace (25k)
- Detect, ID, track, and defeat sUAS through overmatch
- Confuse, Evade, and Deceive the Enemy
- Smaller Sensors with Greater Range (Dsmt/Mtd)
- Integrated Counter-UAS Capabilities at BCT and below
- Kinetic and Non-Kinetic Solutions
- Integrate CsUAS Capability into Existing Systems
- Multi-Spectrum Camouflage

Lethality

- Ground and Air Delivery Systems – Increase Stowed Kills
- Precision NLOS/BOLS Capability at BN Level and Below
- Concentrated Direct / Indirect Fire at Decisive Points
- Maximize Existing Systems
- Increase Organic Networked Sensor to Shooter Capabilities
- Leverage Cooperative Engagements - Target Handoff
- Lightweight man-portable (ABN, AASLT)
- Leverage Lethal Unmanned Systems (Ground & Air)

All Domain Sensing

- Provide Commanders Decision Space
- See Yourself and see the Adversary in Depth
- Increase Situational Awareness beyond FLOT
- Incorporated Semi and Full Autonomous Capabilities
- Provide Timely Overmatch

Survivable / Reliable C2

- Responsive and Resilient Communication Architecture tied to Integrated Tactical Network (ITN) / SBU-E
- Networks Enabled by Over-the Air Management Functions
- Man-Packable Beyond Line Of Sight (BLOS) Expeditionary Mission Command Systems
- Man-Portable Lightweight Secure Voice, Data, and PLI Capable Radio w Extended Ranges
- Assured – Position, Navigation, and Timing
- Smaller, Agile Command Post at Echelon



Focus Areas



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, Power Generation, and Logistics (SMET, JTAARS, RCV)
- Organic Class I (H₂O) Production Capability
- Limited Organic Mobility (ISV, JLTV)
- Lightweight Weapons Systems with Multi-Purpose Utility



Questions