



MCoE Industry Day



Capabilities Development & Integration Directorate

Maneuver Requirements Division Light Systems Breakout Session

Mr. Tom Stafford, Chief

Agenda

- Overview of Organization, portfolio, & Focus Areas- 15 min
- Questions & Answers- 60 min



Maneuver Requirements Division



Capabilities Development & Integration Directorate

Mission: MRD executes materiel related tasks, test and experimentation for manned maneuver capabilities and platforms and develops requirements documents in support of selected acquisition strategies in order to ensure the primacy of our Soldiers and the formations in which they fight.

Maneuver Requirements Division



Director:
COL Mike James

Heavy Systems Branch

- Abrams
- Bradley
- Stryker
- AMPV
- Large Caliber Weapons Systems
- Future Ammunition
- Future Tank
- Vehicle Protection Systems
- Vehicle Sensors

Light Systems Branch

- A-GMV/ISV
- LRV
- MPF
- MRAP
- Medium Caliber Weapon Systems

BCT Mission Command Branch

- Mounted Computing Environment
- Joint Battle Command - Platform



MRD

Mission Essential Tasks



Capabilities Development & Integration Directorate

- **Inform the FDD portfolio**
 - SPAR/POM/Deep Dives
- **Execute materiel aspects of ground combat maneuver platforms for legacy vehicles and selected participation in future systems**
 - Requirements
 - ECP Management
 - Test and Evaluation
- **Develop relevant ground maneuver vehicle sub-systems**
 - Vehicle Protection Suites
 - Sensors (vehicle based)
 - Lethality (Med/Large Cal)
 - Ammo (Med/Large Cal)
- **Develop Mounted BCT Mission Command capabilities**
 - Mounted Mission Command
 - Command Posts & Command Post Platforms MC COE interactions w/ MC
 - Interoperability with PNT/Network Transport/Cyber/EW/Cyber COE interactions w/MC



Light Systems Organization



Capabilities Development & Integration Directorate

Mission: Provide light force with versatile and resilient fleet of combat vehicles combining overmatching lethality with unmatched mobility enabling units to freely conduct independent maneuver across contested battlespace in all domains/ all operational phases Multi-Domain Operations.

All Area Codes are 706

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Light Systems Portfolio

Mounted Lethality, Mobility, & Protection



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Near: Infantry Squad Vehicle (ISV)- Increase light Infantry mobility by allowing small units to move extended distances over unpredictable routes to rapidly close on assault objectives. Program currently in development.



Mid/Far: Scout Squad Light Reconnaissance Vehicle (S2LRV)- Increased mobility and carrying capacity to allow standard six Soldier scout squad to conduct reconnaissance and security operations over extended distances while remaining undetected. Concept in requirement definition.



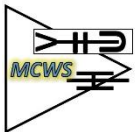
Mid/Far: Electric Propulsion- Initiative to mature and demonstrate electric propulsion for military application in tactical and combat vehicles.



Near/Mid: Mobile Protected Firepower (MPF)- Overmatching precision direct fire enabling Infantry maneuver in the close fight. Program currently in development.



Near/Mid: Cold-weather All-Terrain Support Vehicle (CATV)- SUSV replacement for use in extreme cold regions. Draft requirement in staffing.



Mid/Far: Medium Caliber Weapon System (MCWS)- Make Light Scouts and Infantry Weapons Companies more lethal. Concept in requirement definition.



Now: Mine Resistant Ambush Protected (MRAP)- Protected mobility enabling freedom of maneuver and ability to operate in complex asymmetric threat environment. Fielded system in use in Afghanistan, Iraq, and Syria.

Maintain the battlefield primacy of our Soldiers and the formations in which they fight!



Light Systems Focus Areas



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Priority of Effort

- Infantry Squad Vehicle
 - FUE 2QFY21
 - FOC FY24
- Scout Squad Light Reconnaissance Vehicle
 - 3rd element IBCT multi-platform strategy
 - Accommodate 6 Scouts
 - Highly mobile
 - Low signature
 - Helicopter transport
- Electric Propulsion
 - Push military application of tech
 - Conduct operational demo
 - Sustainment concepts

Requirement Tenets

- Improve tactical mobility while sustaining strategic mobility
- Affordable
- Increase capability without corresponding sustainment burden
- Mitigate Cyber/EW vulnerability
- Commonality within formation



Electric Propulsion Industry Survey



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Purpose: This information will be used to help the Maneuver Requirements Division (MRD) shape threshold and objective requirement for a future all-electric/hybrid/alternative fuel source tactical vehicle.

WWW Link: You can access the survey at
<https://survey.tradoc.army.mil/EFM/se/15B54DFF70469830>



Questions

