



POC:	Ms. Amy Jones, CL CFT PAO
CONTACT:	(256) 993-9885   amy.i.jones5.civ@army.mil
CUI Category:	Unclassified

# ARMY FUTURES COMMAND CONTESTED LOGISTICS CROSS-FUNCTIONAL TEAM

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Redstone Update

DEC 2024

# WHY REDSTONE ARSENAL?



## U.S. Army Materiel Command (AMC)

- The CL CFT resides at Redstone alongside the Army's Lead Materiel Integrator, AMC
- AMC manages the global supply chain, synchronizing logistics and sustainment activities across the Army

## Army Futures Command (AFC)

- 3/9 of AFC CFTs are based at Redstone
  - Contested Logistics (CL)
  - All Domain Sensing (ADS)
  - Future Vertical Lift CFT (FVL)
- 20% of AFC is based at Redstone
- 25% of Redstone tenants are AFC



*Redstone Arsenal, in Huntsville, Alabama, is a Federal Center of Excellence with over 75 tenant organizations, specializing in aviation, missiles, space, and logistics capabilities.*





**BG Shane Upton**

**Director**  
Contested Logistics CFT



**Rob Watts**

**Deputy Director**  
Contested Logistics CFT

# PORTFOLIOS



## Precision Sustainment

Enabling rapid, data-driven, and resilient logistics by leveraging advances in artificial intelligence, machine learning, and other technologies



### Problem Statement

How do we use AI, LLMs, and ML to collect, store, process, and utilize key logistics and medical supply data to make better and faster decisions and provide more options for the means and mode of distribution?



## HMI Supply & Distribution Systems

Developing human machine integrated formations deployable to ground, air, and sea while incorporating autonomous capabilities, extending Commanders' operational reach and endurance, while reducing risk to Soldiers



### Problem Statement

How do we autonomously distribute critical supplies (ammo, fuel, maintenance, medical) to land-based formations dispersed over extreme distances in a contested environment, independent of stationary or fixed facilities?



## Advanced Power

Leveraging new technologies in power generation, storage, and re-charge that are more efficient and decrease logistics resupply requirements



### Problem Statement

How do we reduce need for consumable liquid fuels and batteries by integrating solutions in power generation, battery alternatives, hybrid drives, sustainable fuel technologies, and rapid fuel additives?



## Demand Reduction

Utilizing advanced manufacturing, alternative fuels, and new materials to reduce soldier & platform weight and delivery times to meet requirements at point of need

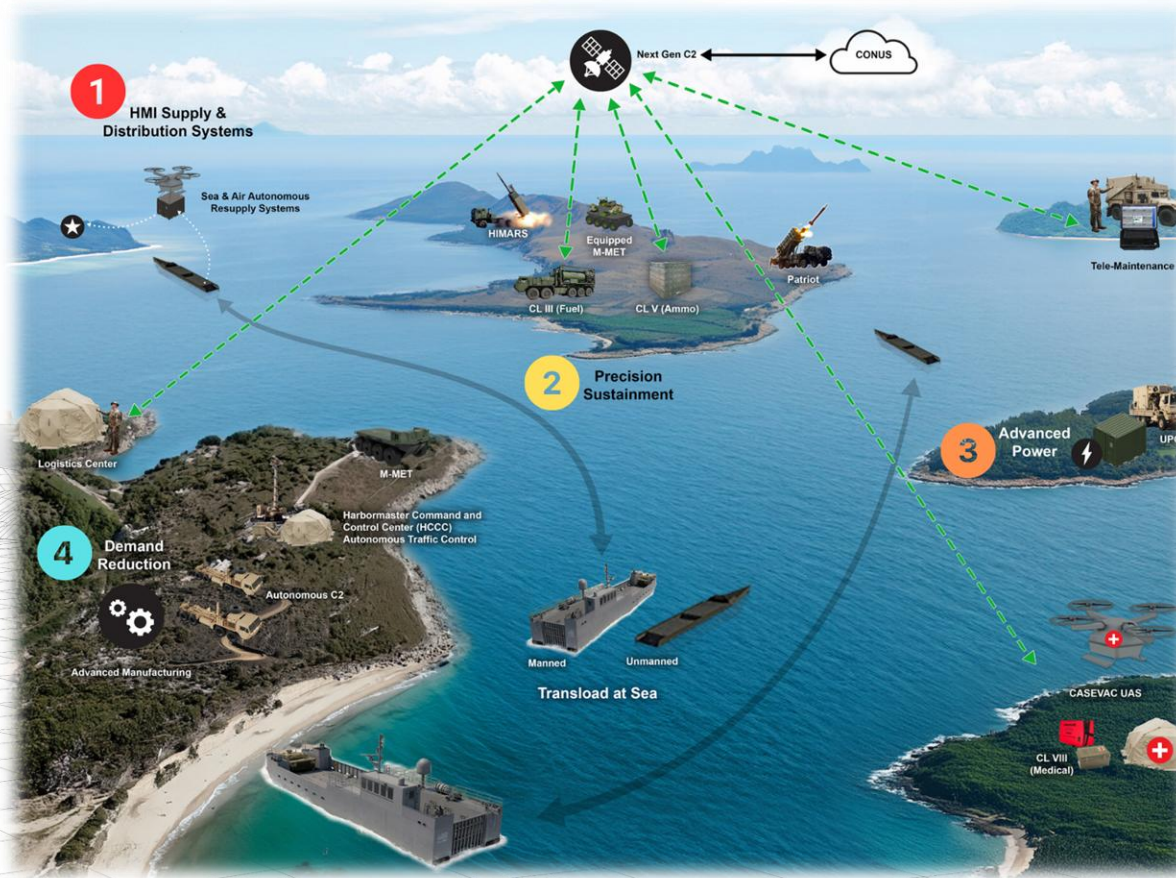


### Problem Statement

How do we reduce the frequency of & demand for resupply & distribution of critical supplies (ammo, fuel, maintenance, medical) to sustain Warfighters and increase operational reach, endurance, speed, and ease?

***“All aimed at increasing lethality, survivability, and agility of formations while streamlining logistical burdens on the future battlefield”***

# CONTESTED LOGISTICS OPERATIONAL CONCEPT OV-1



# CL-CFT PRIORITY EFFORTS



*“Contested Logistics is the act of planning, executing, and enabling the movement and support of military forces across multiple domains/environments across air, land, sea, space, cyber, and electromagnetic spectrum in a contested environment.” -JCCL*



## Contested Logistics ICD

AROC Approved  
NLT 30 AUG 25



### Precision Sustainment

**Predictive Logistics CDD**  
AROC Approved  
NLT 31 AUG 26



### HMI Supply & Distribution Systems

**Autonomous Resupply Vessel ACDD**  
AROC Approved NLT 30 APR 25

**CaUAS ACDD**  
AROC Approved NLT 31 JUL 25



### Advanced Power

**Advanced Power**  
Present Options for Capability  
Development NLT 25 FEB 25



### Demand Reduction

**Water at Point of Need**  
Initiate Entry Gate process  
NLT 30 JUL 25

# CONTACT US



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