



# Research and Development SUPPLY CHAIN MANAGEMENT & SUSTAINABILITY (SCM-S)



Program Info

Program Manager: Dr. Imes Chiu

✉ Imes.Chiu@dla.mil

## DLA'S TRANSFORMATION IMPERATIVES

Build Organization Agility Through Our People and Culture

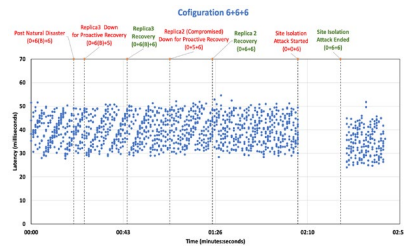
Calibrate Resilient And Responsive Logistics Solutions On Support Of Military Readiness

Enhance Support To Integration Deterrence Across The Continuum Of Conflict In Contested Logistics Environments

Lead Logistics Interoperability Across The Department, Allies, Whole Of Government, And Industrial Base

## OBJECTIVE

The Supply Chain Management & Sustainability (SCM-S) program focuses on reliability and resiliency for Mission Accomplishment. Primary focus for 2025-2030 involves Construction & Equipment (Class 4).



### SUPPLY CHAIN RESILIENCE

Critical enablers of Class 4 and supply chain resilience



### EMERGENT REQUIREMENTS

Rapid and agile responses to Class 4 emergent needs



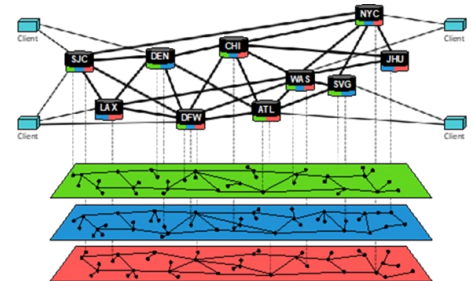
### MISSION ASSURANCE

Full cycle engineering processes



## INNOVATION & TECHNOLOGY

- Intrusion-tolerant overlay network guarantees timely message delivery despite physical failures and attacks in the underlying network(s) and the overlay itself.



## STRATEGIC THRUSTS



Incorporate emerging Class 4 specific technologies to improve DLA supply chain resilience



Mission Assurance in contested logistics



Support the modernization of Class 4 Supply Chain



# Research & Development SCM-S



## THE CHALLENGE

Given the constant change in threats and requirements, the Supply Chain Management & Sustainability (SCM-S) program's challenge is having the agility, flexibility, and resources to anticipate, assess, and identify Construction & Equipment new methodologies to meet current and future Warfighter requirements



## THE SOLUTION

The SCM-S program leverages R&D to infuse innovation into the Class 4 supply chain and sustainability efforts.



## WARFIGHTER READINESS

### THE BENEFITS



Full life-cycle engineering processes to identify and mitigate design, production, test, and field support deficiencies threatening Construction & Equipment Mission Accomplishment in contested logistics.

## INDUSTRY AND WHOLE OF GOVERNMENT PARTNERSHIPS

- MILITARY SERVICES
- MAJOR SUBORDINATE COMMANDS
- NATIONAL LABORATORIES
- GEOGRAPHIC COMBATANT COMMAND
- OFFICE OF THE SECRETARY OF DEFENSE
- MANUFACTURING INSTITUTIONS



<https://www.dla.mil/Information-Operations/Research-And-Development/>

## ACCOMPLISHMENTS & ONGOING EFFORTS

- ✓ Improve cost and safety of Class 4 operations
- ✓ Bolster DLA's Class 4 ability to rapidly respond to worldwide events
- ✓ Integrate sustainment and supply chain risk management early in the product's lifecycle
- ✓ Intrusion Tolerant systems for DLA installations
  - ✓ Resiliency against severe compound and adaptive threats
  - ✓ Custom protocols without needing to modify the underlying network(s)
  - ✓ Customized protocols to make use of general-purpose computing resources (processing & memory) and global state in the middle of network
  - ✓ Seamlessly leverage multiple underlying networks for enhanced resilience