VERTEX

USE CASES

CONTESTED LOGISTICS

FEB 13-14, 2024 | AUSTIN, TX

Each day, small group breakout sessions will bring problem owners and potential problem solvers together for a live, serious discussion on how to approach complex logistic challenges.

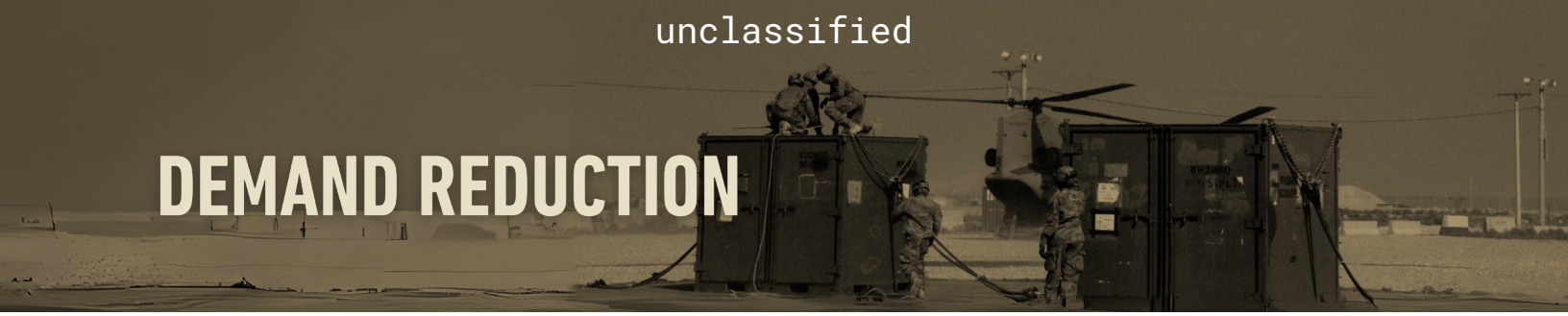
PRECISION SUSTAINMENT

Decision Making Tools

Commanders rely on field reports and at times disjointed and inaccurate data to determine logistics requirements when planning and executing operations. We are looking to improve operational efficiencies by applying decision tools to reduce the commander's cognitive load. How can we improve demand prediction to ensure supplies can quickly reach the point of need?

Enterprise Reporting Integration and Resiliency

Soldiers on the battlefront rely on real-time data for inventory, delivery planning, status, and resupply. How can we upgrade the tools that collect, store, and analyze data to offer consolidated and easy to interpret reports on unified platforms? Software and hardware solutions need to operate in a variety of environments, from areas with real-time cloud access, to areas with low bandwidth or no network capability. Help break the barriers between devices that "can't talk to each other" and offer agnostic solutions for interoperability.



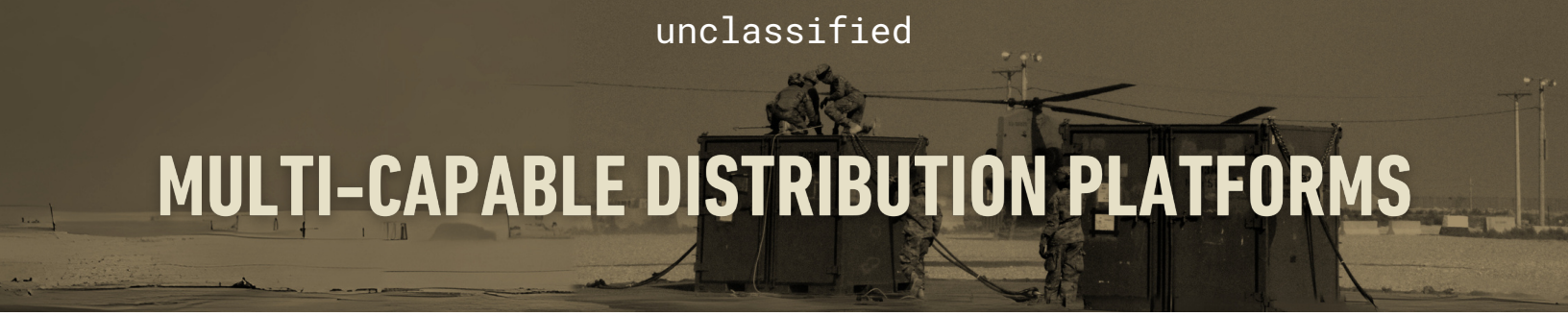
DEMAND REDUCTION

Distribution Of Ugly Freight

Delivery operations are constrained by infrastructure and traditional modes of transportation. How can the Army maximize the movement of heavy and oddly shaped material during operations constrained by surface platforms, ports, and limited airspace?

Optimizing Supply Chain Performance

Taking inventory, distributing deliveries, and discarding packaging waste is a resource heavy process. How can we reduce the time it takes to inventory and distribute packaging, and make resupply less labor-intensive? What up-and-coming technologies offer improvements to the supply chain, and help reduce the demand for personnel and resources at various stages of the delivery cycle, particularly during configuration for the last mile?



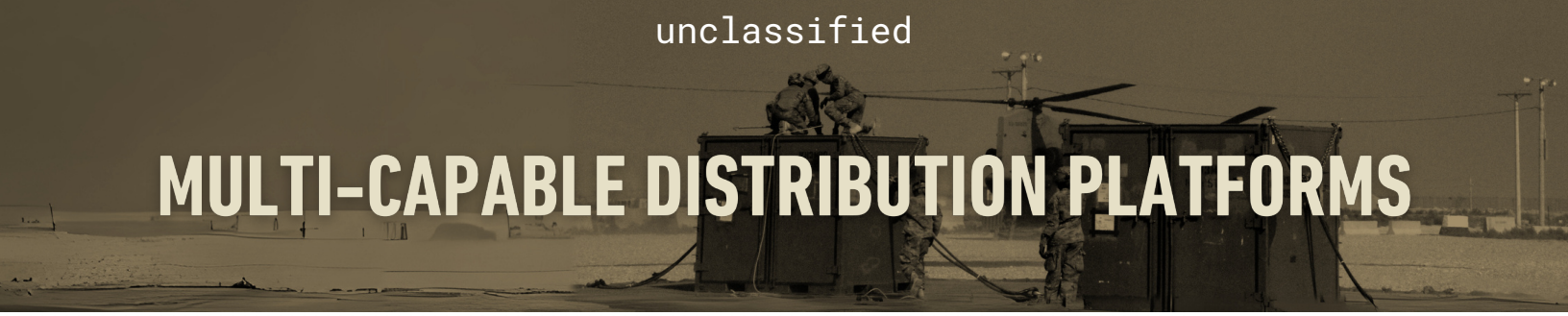
MULTI-CAPABLE DISTRIBUTION PLATFORMS

Protection of Engineering Capabilities

Surveying, repairing infrastructure, and building forward bases and supply nodes, are time and resource heavy functions that leave personnel and equipment vulnerable to enemy interference. Protection of engineering and construction operations could be achieved through concealment, or adding additional personnel (force protection). How else do we reduce enemy interference in construction and maintenance functions in contested environments?

Safer, Larger, Faster Resupply

How can we extend reach and increase the volume of supplies to remote locations while reducing risk to personnel? The Army is seeking solutions to enhance simultaneous distribution of supplies to remote locations. What current solutions can enhance the ability to reach multiple endpoints, and accomplish resupply operations using air, land, sea or space?



MULTI-CAPABLE DISTRIBUTION PLATFORMS

Increasing Survivability of Transport Assets

Transportation vehicles are susceptible to enemy attack. The Army needs to maintain uninterrupted delivery and resupply of critical materials during large scale combat operations by enhancing the survivability of its transport assets. We are looking for solutions that add protection to the vehicle making it more physically robust, or adding technology that conceals the vehicle, making it harder to detect. How do we make transport assets more survivable without fielding a whole new fleet of equipment?

Difficult Island Landings

Sustainment formations require the ability to operate on beaches of varying terrain and sea conditions. Additionally, air land and sea transport must be functional even in the absence of shore infrastructure and minimal material handling equipment and personnel. How do we improve the US Army's ability to conduct island resupply operations in less-than-ideal sea conditions with minimal support on site?

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