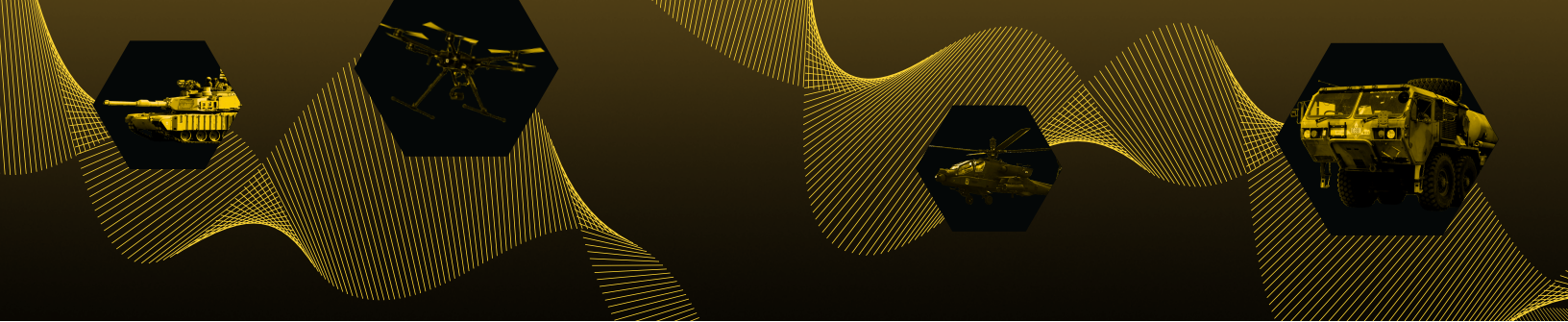# VERTEX

USE CASES
TACTICAL INFORMATION
& NETWORK

NOV 19–20, 2024 | AUSTIN, TEXAS

An exclusive two-day symposium, in partnership with Next-Generation Command and Control, on the data and networks used to lead and assess operations. Afternoon breakout sessions create an opportunity for problem owners and potential problem solvers to come together for a live discussion on how to approach network challenges.
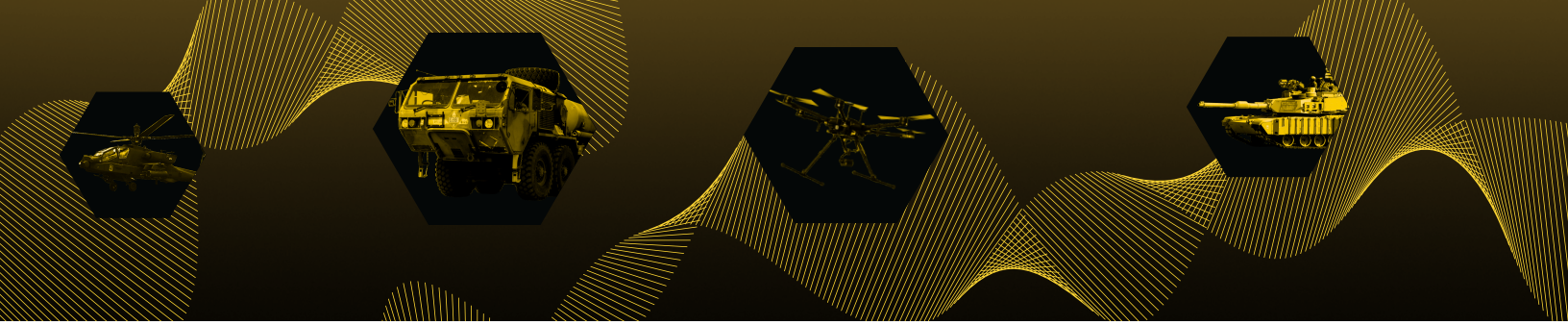
TACTICAL COMMUNICATIONS

What new approaches should the Army consider to provide additional data transport options, improve reliability, and enhance security of communications in a dispersed battlefield from the lowest echelons to large command posts?

PATH DIVERSITY

Soldiers currently manage a variety of communication methods and manually fall back to alternate methods when communications are disrupted. How do we provide resilient self-optimizing communications across diverse data routing options?
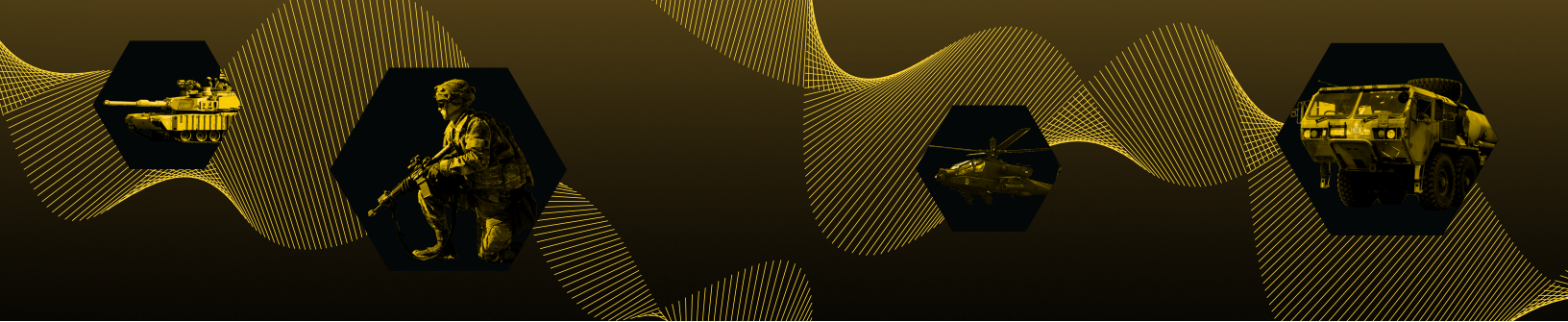
unclassified

WORKFLOW INTEGRATION

Planning, fires, logistics, and airspace coordination are examples of command and control tasks currently siloed across different systems. How can we use interactions among workflows, enabled by a common data layer, to maximize a commander's ability to understand, visualize, describe, and direct operations?
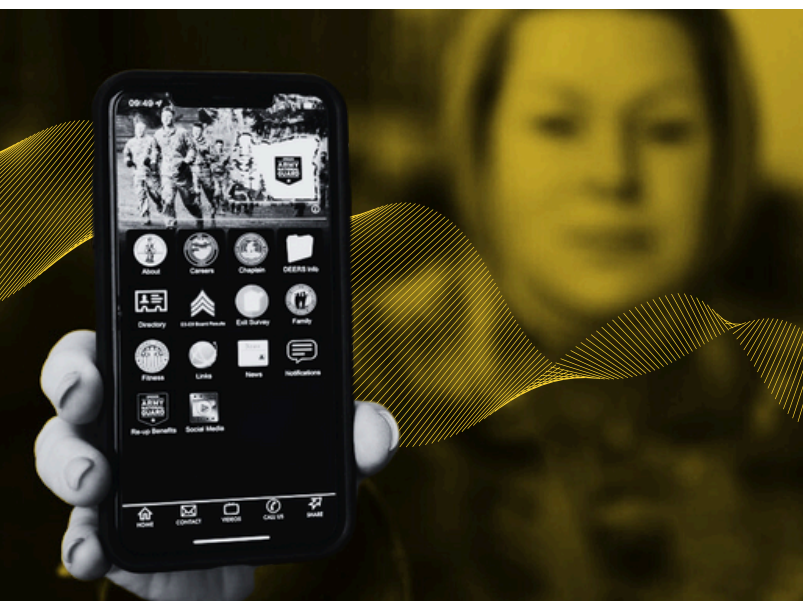
INTUITIVE APPLICATIONS & TRAINING

Applications are only as good as a Soldier's ability to use them. Current command and control applications require extensive training time, limiting a unit's ability to gain proficiency. What should we consider when creating intuitive applications that offer built-in training, and work in both simulated and real environments?
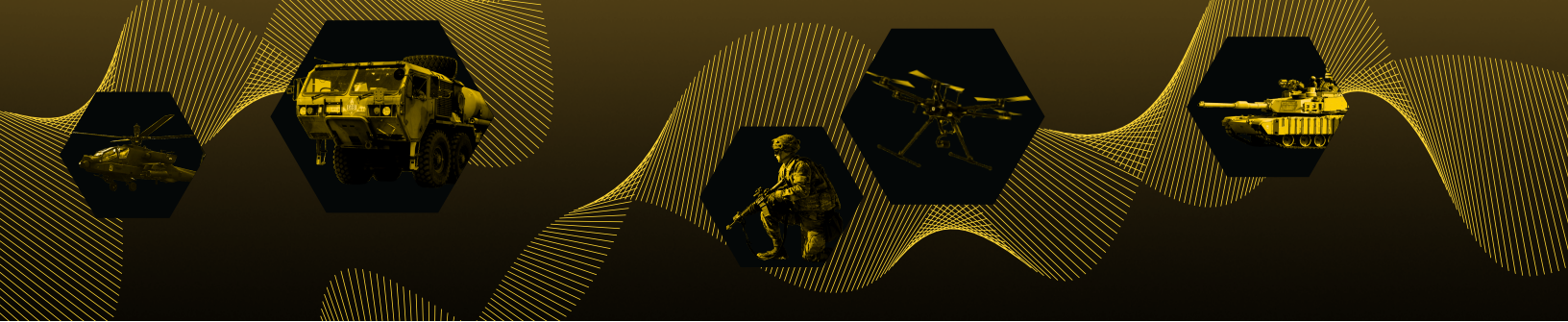
DATA FUSION & SYNCHRONIZATION

Next-generation networks will have to handle unprecedented amounts of data from thousands of sensors, nodes, and apps in contested communications environments. How do we prioritize, filter, and fuse data to minimize the need to synchronize large amounts of information? How can we ensure that the right data gets to the users that need it?

APPLICATION ECOSYSTEM

Next-generation command and control will require constant innovation from industry. How can we create an app store-like environment that enables innovators to develop, test, and maintain applications for the tactical network? What resources and information allow industry to provide the best innovations for the Army?

ADAPTING IN REAL TIME

How do we rapidly adapt software, algorithms, and models to stay ahead of adversaries on the battlefield? When Soldiers encounter new technical challenges, how do we apply the best talent–wherever it is located– to allow us to rapidly adapt in a dynamic environment?

TACTICAL SECURITY

Command and control networks present unique security concerns, particularly when operating in contested environments. The Army needs to ensure only authorized personnel are using equipment, and adversaries are not tampering with information. How do we apply robust security measures and mitigate enemy interference without impeding access for Soldiers?

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