DATA SHEET

C3 AI Contested Logistics

Resilient and Adaptive Supply Networks in Contested Environments

Enhance Campaign Plans

with AI simulation to account for various risks and user-defined scenarios

Monitor Mission Status

in near real-time to achieve a comprehensive view of the supply network

Adapt to Rapid Changes

in contested environments with AI-assisted contingency planning

C3 AI® Contested Logistics integrates logistics, risk, open source, and a multitude of data sources to ensure resilient, optimized supply networks. It provides AI-assisted situational awareness by identifying weak points, AI-assisted forecasts, risk mitigation, and recovery solutions.

Military logistics teams are tasked with delivering the right resources at the right time to the right place. To achieve that, logistics teams need to develop robust campaign plans, monitor missions and supply networks in real time, and adapt to constantly changing dynamics. Performing these tasks in a contested environment is challenging, as inclement weather, shifting geopolitical landscapes, and adversarial interference may disrupt commercial and government supply networks. Logistics teams may struggle with effective planning and timely responses due to extensive manual aggregation and analysis of siloed data and processes.

C3 AI Contested Logistics addresses military logistics pain points. Through scenario planning with AI-driven simulations, logistics planners are empowered to build comprehensive campaign plans that consider critical factors such as operational variability, readiness, and geopolitical risks. By leveraging near real-time monitoring capabilities, operation centers can attain a global view of all missions, encompassing vital information such as mission progress and location, mission risk assessments, and predicted estimated time of arrival (ETA). With AI-driven risk mitigation and execution optimization capabilities, tactical teams can rapidly adapt and revise the optimal route in response to dynamic risks and adversarial interferences within the surrounding environment.

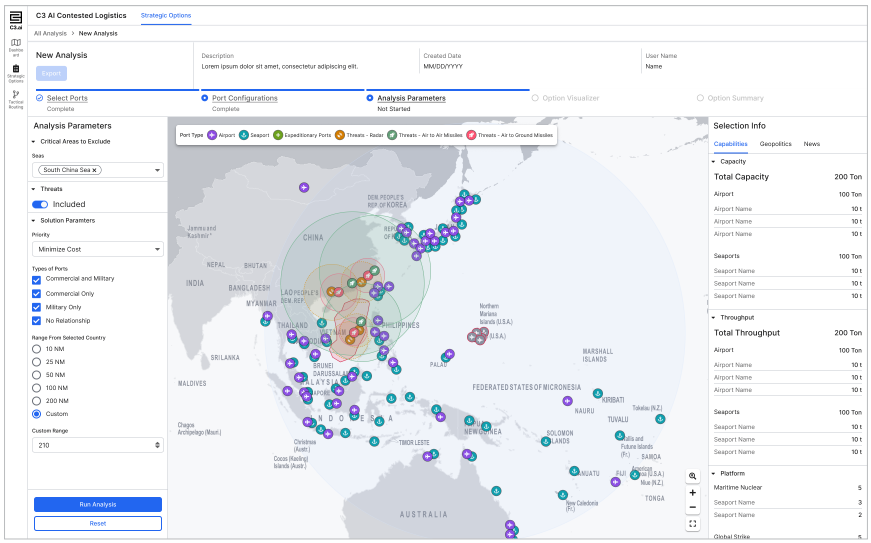

Figure 1. *C3 AI Contested Logistics' Common Operating Picture provides a unified view of campaign plans and mission data.*

Feature Summary

- **AI-Driven Contingency Scenario Planning** – equip planners with optimal campaign strategies by conducting rigorous nodal analysis using simulation techniques to analyze a wide range of scenarios, encompassing varying environmental risks and interferences
- **Logistics Route Optimization** – facilitate near real-time supply network optimization to identify optimal routes for mission execution, leveraging current geopolitical, weather, and adversarial information
- **Near Real-Time Mission Monitoring and AI-Based Lead Time Prediction** – empower operations centers with a global view of all logistics missions' location, progress, and AI-predicted ETA in near real-time, enabling effective monitoring
- **Delay & Risk Alerts** – notify operation teams promptly about mission delays and new threats in the application interface, ensuring timely implementation of necessary mitigations and adjustments
- **Flexible What-If Analyses** – model various user-defined situations to develop robust alternatives that account for circumstances that arise during the missions, enhancing adaptability
- **Common Operating Picture** – enable all logistics teams to have a unified and consistent view of operational data, risks, and threats to establish a shared understanding for monitoring and analysis

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Resilient Logistics at Strategic, Operational, and Tactical Echelons

C3 AI Contested Logistics establishes resilient military supply networks by breaking down data silos and harnessing the power of AI models. The application seamlessly unifies a wide array of data sources, encompassing both traditional sources such as AIS, TRANSCOM databases, and GCSS, as well as non-traditional sources like geopolitical risks and weather conditions. This unified data is processed in near real-time, generating a common operating picture that enhances situational awareness for all missions and serves as the foundation for subsequent analyses. Furthermore, the application analyzes the data with advanced machine learning algorithms and AI simulation techniques, such as Monte Carlo Stochastic Simulations, ETA predictions, and routing optimization to strengthen the supply network's resilience. These powerful analyses empower logistics teams to develop comprehensive campaign plans, real-time ETA monitoring, and optimize execution, ensuring a resilient and transparent supply network is in place.

With C3 AI Contest Logistics, strategic, operational, and tactical teams can:

- **Accelerate time-to-insight for campaign planning** to a matter of hours, replacing months-long manual analysis
- **Create robust and adaptive strategic options for campaigns** that account for varying objectives and constraints in any given scenario
- **Stay informed and respond promptly to constantly evolving contested conditions** through AI-driven notifications and mission monitoring, maintaining a competitive advantage relative to adversarial peers
- **Optimize mission routing to prevent delays and ensure the timely delivery** of resources to support military operations
- **Effective resource allocation to eradicate shortage issues,** ensuring the right resources in the right places at the right time
- **Develop a unified data image** by integrating disparate operational systems, enabling the creation of a common operating picture to establish a shared understanding across all echelons
- **Enrich traditional analyses with non-traditional data sources,** such as geopolitical risks and threats
- **Increase team efficiency and collaboration** by breaking down silos with a single unified application utilized across strategic, operational, and tactical organizations

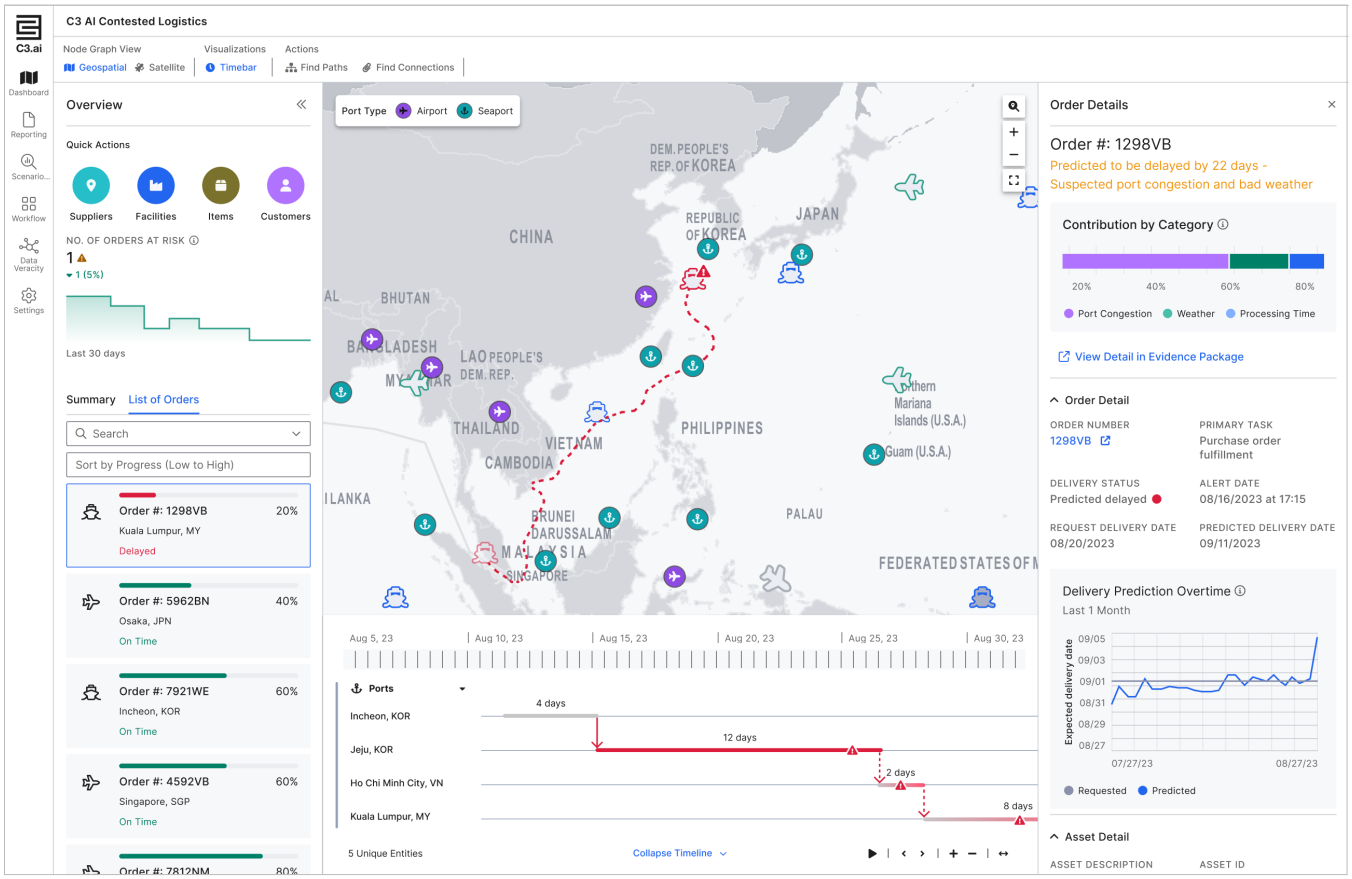

Figure 2. *C3 AI Contested Logistics offers real-time mission monitoring and delayed missions.*

Fast, Proven Results in Initial Production Deployment

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