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⊞ C3 AI Decision Advantage

Accelerate Decision-Making Cycles with AI Insights

C3 AI® Decision Advantage is an AI-enabled application that improves domain awareness, collections management, and battle management. Fusing multi-source intelligence and sensor data enables exposing emergent risk insights and mission-critical updates in near real-time for commanders to action. Using C3 AI Decision Advantage, operational analysts and battlefield decision-makers can:

- Connect siloed data feeds to create a unified data image, enhancing situational awareness and providing a common operating picture

- Identify false or spoofed data with native data veracity algorithms

- Optimize collection management with AI-recommended sensor orchestration and administration features

- Leverage AI-enabled target detection and recognition algorithms to complement human decision-making

- Accelerate and deconflict kill-chains through sensor-to-shooter application interoperability

- Improve workforce collaboration and efficiency between forces and joint partners using native alert and case management workflows

C3 AI Decision Advantage aggregates disparate structured and unstructured data on an object-based unified data model that integrates with existing DoD/IC data fabrics. The application unifies disparate multi-INT data and applies data veracity algorithms to ensure a trustworthy, high-fidelity data fabric for down-stream applications. Additionally, C3 AI Decision Advantage alerts operational analysts on sensor health issues to identify and treat potential data quality issues.

Connect and unify disparate data across sensors into a cohesive data fabric

Utilize cutting-edge AI and ML to detect and resolve data veracity issues

Identify, track, and exploit real-time intelligence seamlessly

Accelerate sensor-to-shooter timelines with AI solutions across F2T2EA tasks

Receive AI-driven alerts and recommendations for sensor configuration, repair, and enhancement

Augment human decision-making with AI to identify and analyze targets of interest

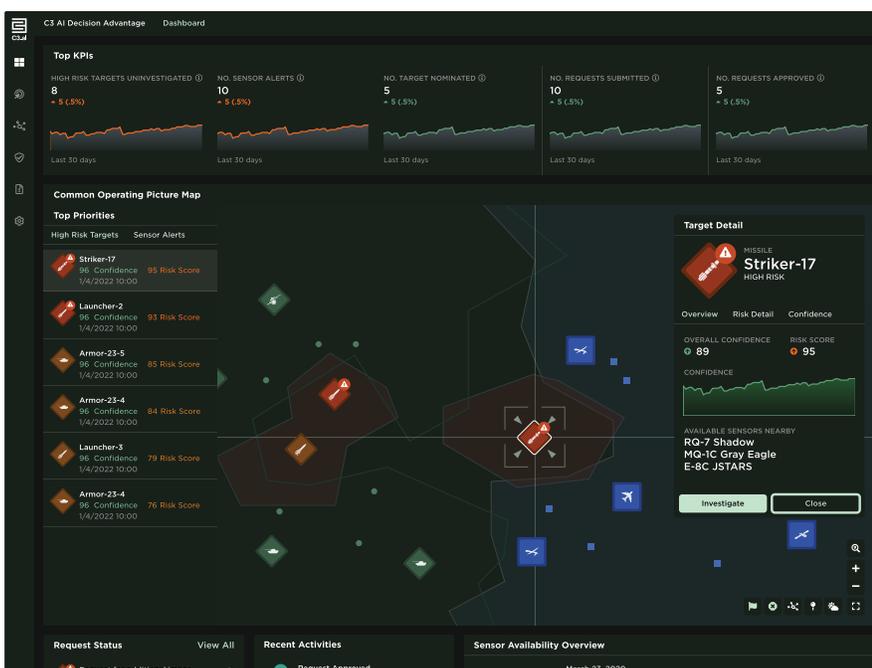**Leverage AI-enhanced risk scores** to recommend course of actions

Track and assess enterprise data quality trends, including data gaps, entry errors, and compliance rates

Use AI-powered image analysis and classification to perform battle effects analyses

Seamlessly integrate with existing data infrastructure to accelerate access to AI insights without disrupting current processes

Utilize in-application workflows to share information and collaborate with operational analysts and commanders.

Figure 1. C3 AI Decision Advantage provides configurable dashboards, allowing operational users to monitor high-risk targets and take the most appropriate actions critical to mission success.

Synthesize Intelligence and Select Actionable Mission

C3 AI Decision Advantage provides solutions across Domain Awareness, Collections Management, and Battle Management modules.

For domain awareness, C3 AI Decision Advantage provides foundational unified data layer for downstream applications and data managers. The patented C3 AI Application Platform can integrate with any and multiple different data fabrics to offer a unified view of the underlying data objects, as well as serve data as part of a data marketplace. Configurable workflows improve the trustworthiness of the common operating picture.

Robust AI models power C3 AI Decision Advantage's Collection Management module. The module provides decision makers and intelligence analysts a seamless means to identify, track, and exploit intelligence through data fusion, sensor orchestration, and ISR scheduling optimization.

Battle management is at the heart of complex and time-sensitive kill-chains. C3 AI Decision Advantage provides decision makers and battle managers enabling tools to consume synthesized intelligence and quickly execute different courses of action. Using the common operating picture, C3 AI Decision Advantage uses advanced AI algorithms to curate a list of high-priority targets for the operational analyst to investigate and recommend for action. For enhanced precision, C3 AI Decision Advantage provides the analyst and targeter AI-enhanced confidence intervals given the veracity and volume of sensor collection data along with image resolution confidence. Through tightly coupled AI models, C3 AI Decision Advantage can provide battle managers actionable insights from target analysis and decision support through combat assessment.

Common to all three C3 AI Decision Advantage modules is comprehensive and intuitive evidence packages that provide interpretability and boost confidence in AI recommendations. The evidence packages can be exported and shared across every echelon of command.

C3 AI Decision Advantage can be extended and customized for unique command and control features and mission requirements.
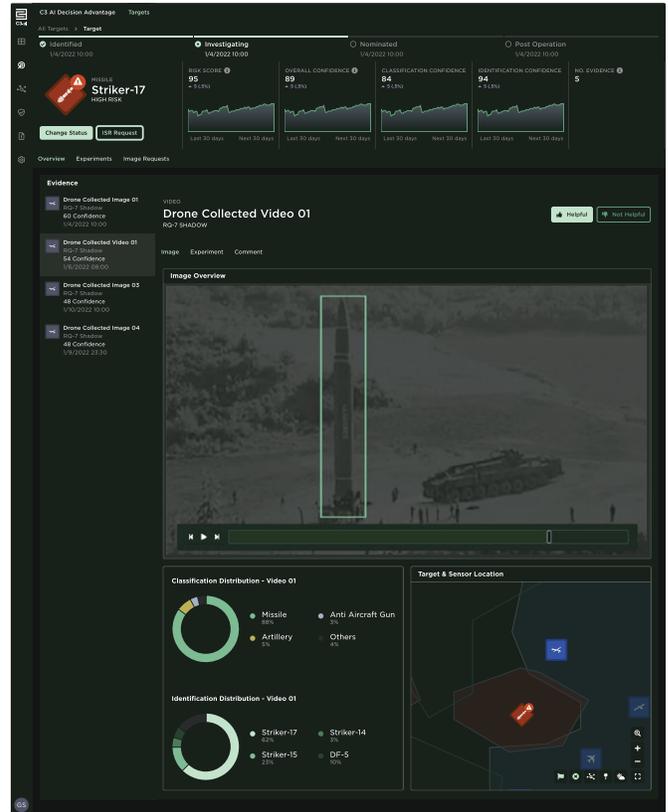

Figure 2. *C3 AI Decision Advantage helps complement human decision-making by providing AI-enabled image detection, resolution, and classification analytics*

Use AI to Rapidly Collect, Process, and Exploit Data at the Edge

C3 AI Decision Advantage Benefits

The operational benefits of C3 AI Decision Advantage accrue through multiple levers:

- Enhanced situational awareness through the integration of traditionally siloed sensor data

- Validated ground-truth data by applying cutting-edge data veracity analytics and ML pipelines

- Accelerated target resolution by leveraging advanced target recognition algorithms

- Compressed time-to-action through AI-assisted target risk prioritization and nomination

Proven Results in 8-12 Weeks | Visit C3.ai/get-started