

Accelerating the NextAdvantage™

Cubic Mission and Performance Solutions



CUBIC™
Mission and Performance Solutions

INTRODUCTION

Tomorrow's Fight Will be Different

Global threats are proliferating. While the United States Military was able to maintain the technological advantage for decades, peer competitors are increasingly able to adopt commercially available technologies to modernize their forces and close the gap.

It's time to for a new advantage. To train, connect, and execute quickly — with precision — across all domains.

NextAdvantage. By Cubic Mission and Performance Solutions

Operational overmatch in the emerging threat environment will be enabled by advanced warfighting concepts that rely on the ability to securely share vast amounts of sensor and command and control data across a broad multi-domain battlespace at machine speeds in highly contested environments.



Cubic Mission and Performance Solutions accelerates the NextAdvantage™ with solutions that assures multi-domain access, accelerates decision-making, and amplifies readiness.

These complementary solutions set the foundation for effective multi-domain operations

Assured Multi-Domain Access: Adaptive and resilient real-time connectivity, rapid and secure data access ensure new levels of shared awareness across domains.

Converged Digital Intelligence: Converged intelligent data supercharges AI algorithms and accelerates the creation and closure of joint effects webs.

Superior Warfighting Readiness: Live Virtual Constructive and game-based training leveraging adaptive and realistic environments delivers superior warfighting advantage.

Autonomous Systems: Robust ISR capability in highly expeditionary UAS platform provides unique and valuable capability for Warfighters.

Integrated Global Solutions: Technology transfer enabling national capability and combined interoperability among allied and coalition forces.

Capabilities



Mission Communications and Computing

Leveraging adaptive and resilient real-time connectivity, along with rapid and secure data access, NextAdvantage ensures that mission-relevant data is discoverable across all domains, accessible only by those who need it, and intelligent so that it drives better and faster decision-making. It's a new level of shared awareness, which fosters better decision-making and the dynamic execution of the Commander's intent and mission command.

Graphic to include

- Edge Compute and Networking
- Expeditionary Communications
- Assured Data Links
- Advanced Microelectronics



Live-Virtual-Constructive Training

The ability to train like we fight — authentically, and with absolute fidelity — remains paramount for success. Traditional live training today falls short of replicating advancements in threat system complexity and capabilities. At the same time, training ranges have physical limitations to accommodate ever expanding modern engagements to stage full-scale exercises.

To address these training challenges, NextAdvantage incorporates Live Virtual Constructive (LVC) and game-based training, which leverages adaptive and realistic environments to deliver a training experience that's virtually identical to real-life scenarios. It's a secure, high-fidelity approach to multi-domain training that prepares forces to dominate their peer adversaries in highly contested environments.

- Air Combat Training
- Ground Combat Training
- Maritime Training
- Multi-Domain Training

Capabilities



Autonomous Systems

Cubic's ISR-ONE unmanned aircraft system (UAS) provides intelligence, defense and homeland security customers with real-time intelligence, surveillance and reconnaissance (ISR) in both tactical and strategic applications over very large distances. With flight up to 24 hours and 500 nautical mile radius operations, the on-board Multi-INT sensor suite gives 360 degrees of persistent surveillance in all conditions. Built to deliver Group 4 capabilities but in a Group 3 cost and logistics footprint, the ISR-ONE platform is a game-changing aircraft - reducing costs and increasing capabilities compared to existing options.

- **Unmanned Aerial System – ISR One**
- **ISR Services**
- **ISR Payloads**



Converged Digital Intelligence

Attaining the information advantage requires massive amounts of data that must be rapidly accessed, processed, fused and made actionable through automation and human decision-making. Cubic's AI / ML algorithms help make data intelligent by improving video quality, correcting metadata alignment, and increasing discoverability in real-time, dramatically improving AI techniques and machine-to-machine automation. The result? The ability for Joint forces to act with greater speed and agility across all domains, exploiting an information advantage.

- **ISR Dissemination and PED**
- **Video Enhancement and AI/ML**
- **Rapid Motion Imagery and GEOINT**
- **Synthetic ISR**

Capabilities



Global Solutions

It's never a fair fight with NextAdvantage, Cubic's full range of C4ISR and LVC Training solutions that empower Allied and Coalition readiness.

Accelerated modernization to address evolving threats and enhances joint & combined interoperability via next generation systems.

Supported by Cubic's global talent and technology base and delivered with regional expertise and innovation, Cubic's Global Solutions enable national capability through technology transfer and local content development, manufacture and workforce.

- **National Defense**
- **National Capacity**
- **LVC Training**
- **Empowered C4ISR**

Faster. Smaller. Smarter.

To combat tomorrow's fight, you need an edge. An innovative approach to training and fighting that empowers speed, agility, and resilience. Solutions that enable our Joint forces to sense, make sense, and act quickly across all domains — *securely* — every time.



That's NextAdvantage.
From Cubic Mission and Performance Solutions

Preparing to face peer adversaries and the rise of global threats in highly contested electromagnetic and cyber environments is a defense imperative.

Cubic Mission and Performance Solutions addresses these challenges with NextAdvantage, which assures Multi-Domain access, accelerates decision-making and amplifies readiness, delivering operational overmatch for National security and defense customers worldwide.

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