

## EdgeAware

ACCELERATE THE OPERATOR DECISION CYCLE THROUGH EDGE PROCESSING AND DATA ANALYTICS

EdgeAware focuses on the critical situational awareness element of small teams entering an unknown area by providing near-real-time updates of humans, vehicles, and radio frequency (RF) emissions through a modular artificial intelligence (AI) framework running on edge systems—increasing mission effectiveness and warfighter lethality and survivability.

EdgeAware provides disconnected and distributed teams with access to actionable intelligence, surveillance, and reconnaissance, rapid modeling, and advanced analytics at the edge. It accelerates the warfighter's decision cycle by detecting and alerting them to potential threats in their surroundings. EdgeAware is a modular open systems approach for on-body, edge-based processing of sensor data to increase situational awareness.

### FEATURES:

- **PROCESSING AT THE EDGE:** EdgeAware is sensor- and platform-agnostic—it can utilize any existing or future sensor and can be ported to multiple hardware platforms. Booz Allen's AI and machine learning (ML) aided target recognition (AiTR) and cyber solutions automatically process sensor data to produce targets of interest—including humans, vehicles, and RF signals—on a mobile device for display on a 3D map in ATAK.
- **3D HANDHELD COMMON OPERATIONAL PICTURE:** EdgeAware integrates AiTR and cyber capabilities with a solution from Reveal Technologies to provide an on-device radio frequency (RF) emitter with human and vehicle locations displayed on a 3D map. Targets and locations are shown on ATAK's mapping engine to provide a powerful situational awareness tool for warfighters on the mission.
- **DIGITAL INTEGRATION WITH THIRD-PARTY SOFTWARE:** Demonstrated integration with Reveal's Farsight software to provide local photogrammetry for target location—completely disconnected from the cloud. By automatically processing small unmanned aerial system sensor video data, Farsight builds maneuver-quality 3D models at the edge with no network connection required. Targets of interest are integrated onto the 3D map to provide enhanced situational awareness.

### About Booz Allen

Booz Allen Hamilton has been at the forefront of strategy, technology, and engineering for more than 100 years. Booz Allen partners with private and public sector clients to solve their most pressing problems.

### Our Services and Approach

Booz Allen's Digital Battlespace Vision is a portfolio of solutions that helps achieve information overmatch in an increasingly data-driven, multidomain conflict space. We blend mission understanding with cutting-edge technology to create transformative solutions, and our open architecture-based approach puts clients in control of their systems, enabling readiness, resilience, and upgradability.

### Contact Information

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For additional resources, go to:



### EdgeAware TRL Levels (May 2023)

Cyber Capabilities



Computer Vision Models



Reveal Farsight

