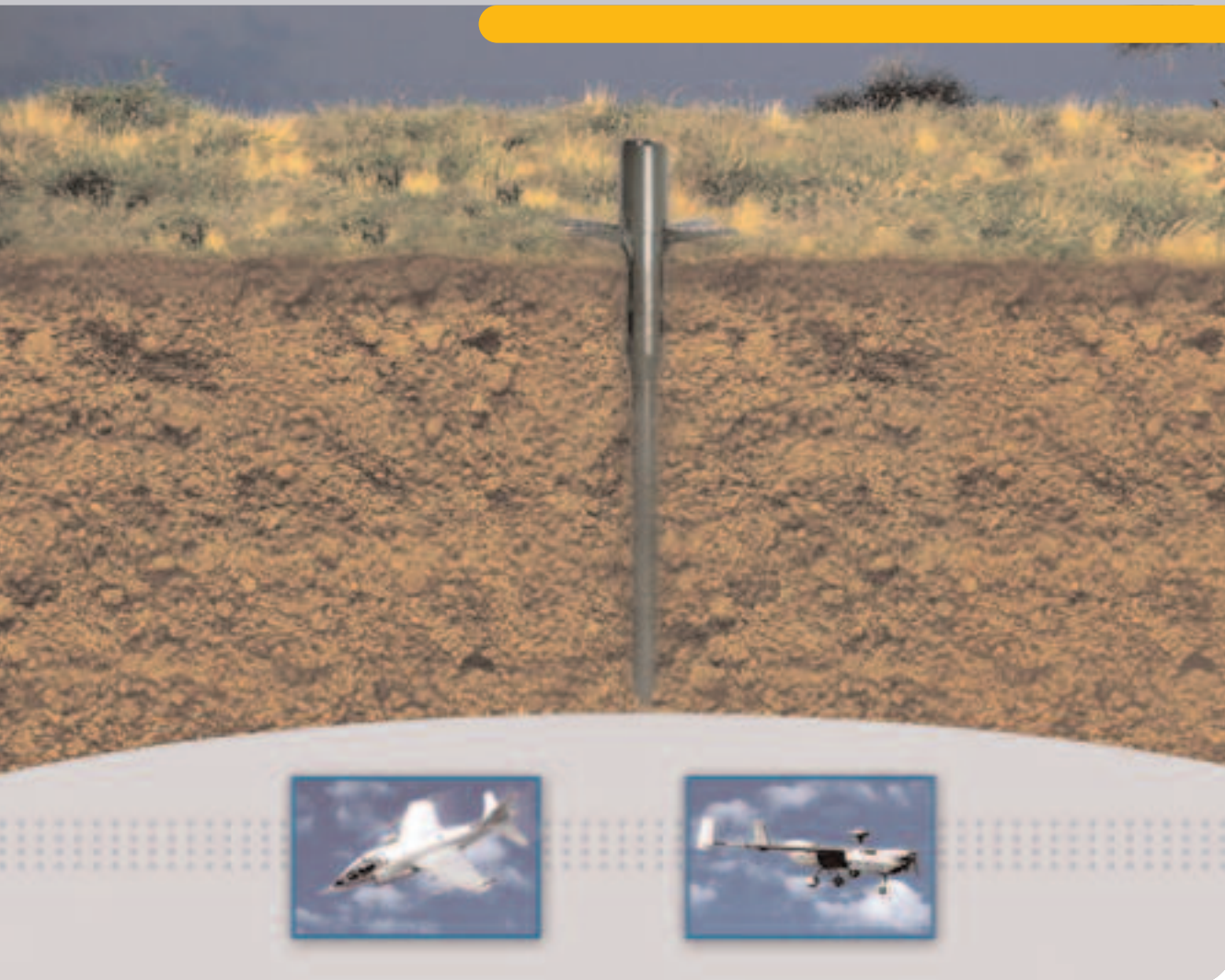


ADVANCED AIR DELIVERED SENSOR (AADS)

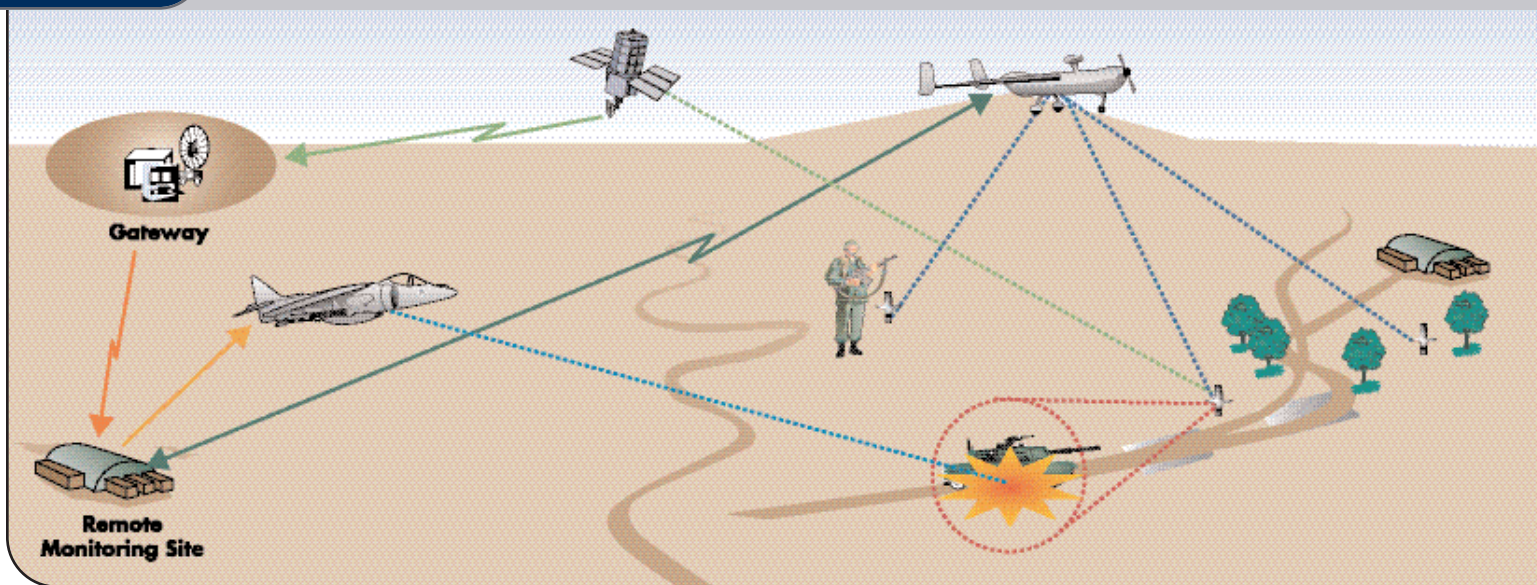
Remotely Detect, Discriminate, and Act Decisively



Integrating better, faster real-time surveillance data

The use of seismic and acoustic Unattended Ground Sensors (UGS) can significantly enhance warfighter capabilities by improving their ability to recognize enemy activities. The Advanced Air Delivered Sensor (AADS) — a program for the U.S. Marine Corps — is designed to shorten the kill chain to defeat time-critical targets. Textron Systems' AADS provides an unattended ground deep-look surveillance capability that can be integrated into the overall BMC2 (Battle Management Command and Control) architecture.





Winning on the Ground

Use of air-delivered AADS enhances the warfighter's ability to detect and react to time-sensitive targets. AADS provides an unattended "on the ground" sensor that can detect, identify and report on enemy vehicle or personnel activity within vulnerable or hostile areas, in Near-Real-Time (NRT). Its ability to provide information that can be used to cross-cue other Intelligence, Surveillance and Reconnaissance (ISR) assets while activity occurs, allows theater commanders to recognize the threat and direct forces to intervene.

Successfully deployed off high performance aircraft and tactical UAV platforms, AADS sensors provide real-time critical data to the warfighter. AADS provides information to its remote monitoring site where information from all AADS units is aggregated to provide true situational awareness to centralized command agencies in support of effects-based operations.

System Description

Textron Systems has been awarded a contract by the USMC (PMIS, Quantico, Virginia) to develop and demonstrate the AADS system. Along with our teaming partners, Textron Systems will bring next-generation sensor and surveillance systems to the AADS program.

The AADS system consists of an air-deployed unit equipped with a sensor suite, software applications to manage the sensors, sensor signal processor, two-way satellite communications transceiver, storage device, Global Positioning System (GPS) and battery power supply. SATCOM will provide communications between the deployed sensor and the common workstation established to receive and process data. The system is designed to provide remote battlefield surveillance and time-critical tracking and targeting data.

How AADS Works

- 1 Intelligence forces suspect that a potential enemy will be crossing a sensitive border. As a result, the military is seeking to monitor enemy vehicle crossings 24/7 without being detected. The target... an enemy vehicle.
- 2 An aircraft drops the AADS in a predetermined location. Ejected from the aircraft, the AADS fins deploy and stabilize the sensor in flight. Upon impact with the ground, the AADS fins also act as brakes, leaving only the sensor above the ground.
- 3 Immediately AADS is ready to detect, classify, and track targets using its acoustic and seismic sensors.
- 4 The Sensor, utilizing SATCOM, notifies a central command post of activity.
- 5 A vehicle peaks the interest of personnel in the command post.
- 6 Upon verification of the enemy target, the military is able to act.
- 7 As the enemy crosses the border, U.S. forces are ready to take appropriate action.

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