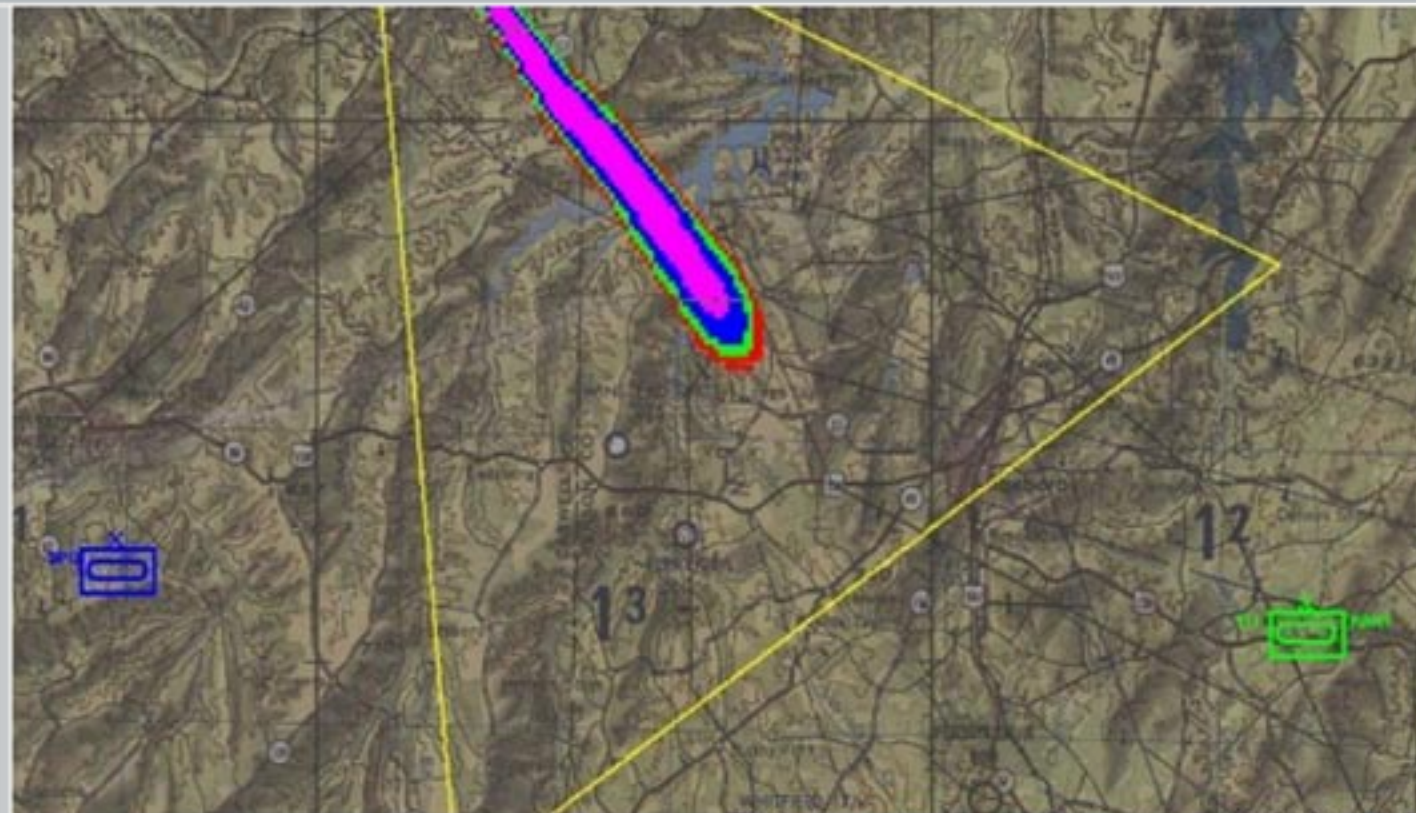# Joint Warning and Reporting Network (JWARN)

Accelerates the warfighter's response to a nuclear, biological, or chemical (NBC) attack by providing joint forces the capability to report, analyze, and disseminate NBC agent detection, identification, location, and warning information.

DESCRIPTION AND SPECIFICATIONS

The Joint Warning and Reporting Network (JWARN) is a computer-based system designed to collect analyze, identify, locate, and report information on nuclear, biological, or chemical (NBC) activity and threats from sensors in the field and to disseminate that information to decision-makers throughout the command. Located in command and control centers, JWARN will be compatible and integrated with joint service command, control, communications, computers, intelligence, and surveillance reconnaissance (C4ISR) systems. JWARN's component interface device connects to the s ensors, which can detect various types of attack.

JWARN is being developed for deployment with NBC sensors in the following battlefield applications: combat and armored vehicles, tactical vehicles, vans, shelters, shipboard application, area warning, semi-fixed sites, and fixed sites. The component device relays warnings to C4ISR systems via advanced wired or wireless networks. JWARN reduces the time from incident observation to warning to less than two minutes, enhances warfighters' situational awareness throughout the area of operations, and supports battle management tasks.

JWARN is a two-block program, plus a preplanned product improvement (planned for FY06-07). Block I (interim capability), consisting of commercial off-the-shelf (COTS) and government off-the-shelf (GOTS) NBC warning and reporting software, immediately satisfied many of the required capabilities outlined in the joint operational requirements document and was fielded during FY98. Existing computers will run the Block I software.

Block II will deliver full JWARN capability to provide commanders with automatic reporting on NBC data from sensor/detector to C4ISR systems. For Block II, JWARN will use a commercial contractor to integrate COTS and/or GOTS non-developmental item components. A JWARN initial capability (JIC) will be developed and provided to warfighters to support refinement of service concept of operations and to provide feedback to the JWARN developer.
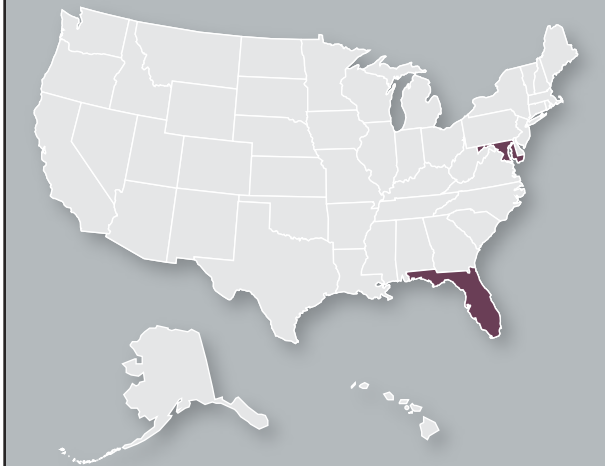
The JWARN-Full Capability System will be developed as a single increment. The development phase will be followed by a preplanned product improvement effort, which will include artificial intelligence modules for NBC operations, an upgrade to match future C4ISR systems, and standard interfaces for use with future detectors.

PROGRAM STATUS
- **4QFY03–4QFY05** JWARN initial capability development

PROJECTED ACTIVITIES
- **3QFY05-4QFY05** JWARN developmental testing and operational assessment
- **3QFY07** JWARN full-rate production

CONTRACTORS
Bruhn NewTech (Ellicott City, MD)
Northrop Grumman Information Technology (Winter Park, FL)

INVESTMENT COMPONENT
Modernization

ACQUISITION PHASE
- System Development and Demonstration