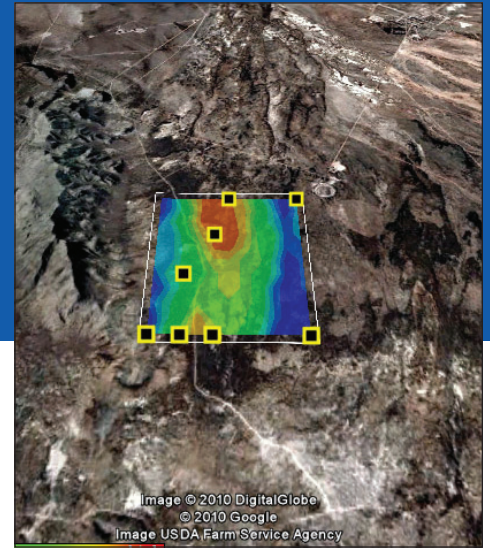


# Chemical, Biological, Radiological and Nuclear (CBRN) Decision Support



*Detector Placement Model*

Over the course of more than three decades, ENSCO, Inc. has developed subject matter expertise spanning meteorological analysis and forecasting to optimal detector placement algorithms. The depth and breadth of ENSCO's capabilities uniquely qualifies the company to offer analysis tools for CBRN decision superiority resulting in maximum system effectiveness, lower operational cost and reduced logistics burden.

A sampling of ENSCO's comprehensive products and services include:

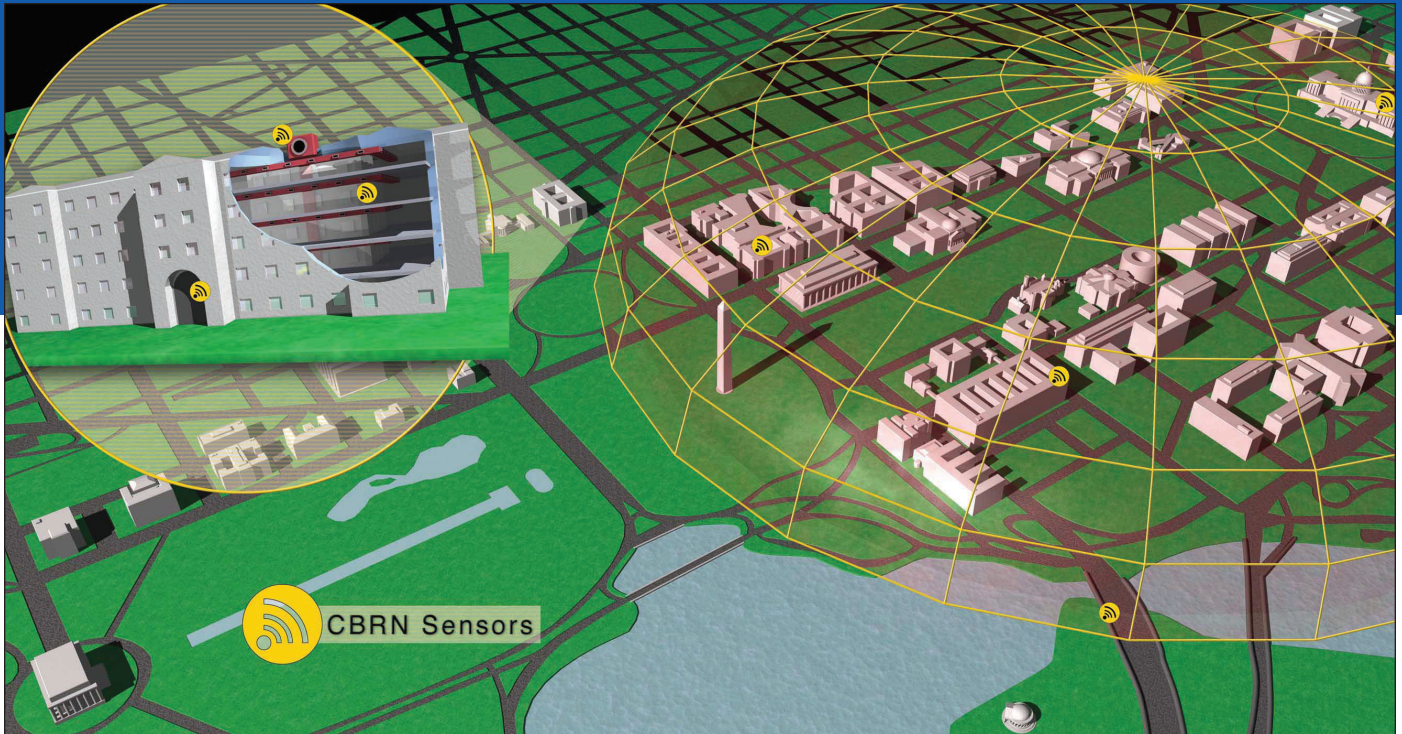
## Intelligent detector placement decision tool

An Intelligent Detector Placement Model is being developed to optimally place chemical and/or biological detectors to provide maximum protection of personnel and assets. The system automatically downloads and incorporates local forecast meteorological and terrain data, initiates and runs a dispersion model, and determines the optimal number and location of detectors. The model runs in near-real time and can be used as a planning tool to preposition detectors prior to the deployment of expeditionary forces. It also serves as a monitor to ensure the current detector placement meets probability of detection requirements given current meteorological and terrain conditions.

## Modeling and simulation

National security and environmental safety depend on an understanding of agent hazards. Through atmospheric transport and dispersion and degradation models, ENSCO provides improved insight into agent behavior. These capabilities can be integrated with Department of Defense-approved transport models to predict the degradation of toxic industrial chemicals in the atmosphere.

**ENSCO, Inc. integrates atmospheric chemistry, meteorological forecasting, and chemical and biological detection to provide real-world decision support tools to protect the warfighter from CBRN threats.**



3-D representation of SENTRY

### CBRN warning and decision support system

ENSCO's state-of-the-art early warning and decision support system, SENTRY, helps government entities, businesses, and private institutions protect against and respond to terrorism, criminal activity and natural disasters. When a CBRN event occurs, decision makers must receive information quickly to make effective choices to keep people and assets safe. ENSCO systems provide early warning of CBRN events and relay information when it is needed most.

### Underground tunnel detection

Using radar, seismic and ultrasonic sensors to display accurate, high-resolution 3-D images of subterranean or embedded structures, ENSCO makes understanding and mapping of underground or concealed objects more accurate.

### GPS-denied geolocation and navigation systems

ENSCO's navigation systems can be used in areas that have limited or no access to global positioning systems. This is particularly effective in areas of dense forest, urban canyon or disaster areas. Similarly, ENSCO communications systems tap advanced technology to allow users to locate, track and communicate with each other where it was previously impossible.

### The ENSCO advantage

As with all ENSCO products and solutions, our automated detector placement software tool represents true ENSCO value – the benefit of four decades of advanced engineering, research and development combined with real-world industry experience. We stand ready to solve your most difficult CB detection and hazard prediction challenges.

Contact your ENSCO representative for more information.

### Delivering innovative solutions for:

- Improved detection effectiveness
- Warfighter protection strategies
- Consequence assessments
- Situational awareness
- Decision support
- CB agent threat modeling and simulation
- Border protection
- CBRN warning
- GPS-denied navigation



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