



CTTSO

Combating Terrorism Technical Support Office

Physical Security



Advance Planning Briefing for Industry

17 February 2009



Team

Program Manager

Doug Cavileer

Program Team

Larry Tierney

Shannon Plummer

Gary Wagner

Matt Griffin

Subgroup Co-Chairs

Carl Pocratsky, DOE

Gene Smith, Army OPMG



Mission

Identify, prioritize, and execute research and development projects that satisfy interagency requirements for physical security support to protect personnel, equipment, and facilities against terrorist attacks



Membership

Department of Agriculture

Department of Commerce

Department of Defense

Department of Energy

Department of Homeland
Security

Department of the Interior

Department of Justice

Department of State

Department of
Transportation

Environmental
Protection Agency

Federal Reserve Board

Intelligence Community

Law Enforcement
Agencies

Postal Inspection Service

Senate Sergeant at Arms



2008 Success Stories

Entry Point Screening and Access Control

Vehicle Barrier Testing Program

- Retired the current Department of State Anti-Ram Barrier Test Standard, SD-STD-02.01, Revision A, March 2003
- Created ASTM F2656 - 07 Standard Test Method for Vehicle Crash Testing of Perimeter Barriers, August 2007
 - More robust and practical gauge for barrier testing
 - Universally relevant anti-ram performance test standard
 - Barrier ratings in relation to a variety of vehicle sizes, impact speeds, and penetration distances





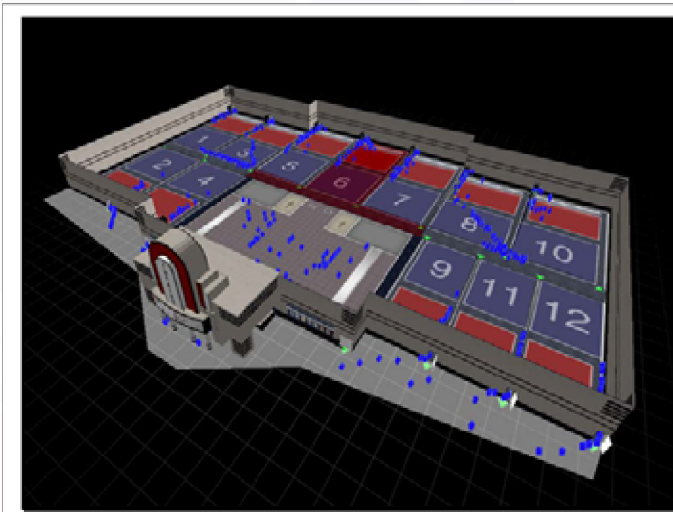
2008 Success Stories

Infrastructure Protection

Regal Decision Systems

Evacuation Planning Tool

- Computer-based 3-D model for rapid construction and execution of simulated threat and response scenarios involving large groups of people in public venues
- Allows users to plan and analyze resource requirements, security team deployments, evacuation options and the coordination of necessary law enforcement agencies
- Used for RNC planning
- Further development ongoing to expand breadth of coverage





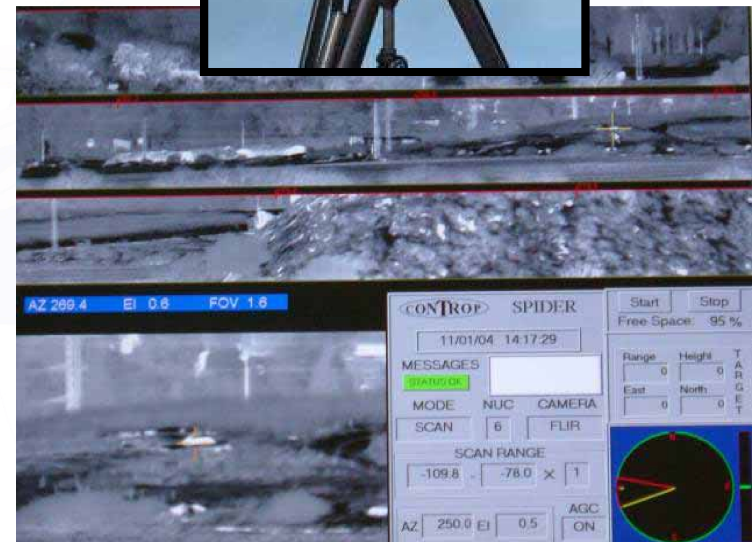
FOR OFFICIAL USE ONLY

2008 Success Stories

Intrusion Detection, Assessment, Delay and Response

Controp *SPIDER*

- Long-range, wide-area, passive, real time, electro-optical, intruder detection system
- Automatic alerts, tracking and targeting capabilities
- 22x zoom FLIR, 16x zoom color video camera, laser range finder, target designator
- Successful deployments with US Army Special Forces
- Transition underway with US Army REF and General Dynamics



FOR OFFICIAL USE ONLY



Subterranean Operations

New Focus Area

Scope: Tunnels, cave complexes and underground voids represent an asymmetric threat as avenues of approach. Develop capabilities to detect, locate, surveil and disrupt subterranean operations in semi-permissive and non-permissive environments, allowing tactical forces to conduct operations. Develop novel methods to allow operators to exploit subterranean operations and illuminate hostile and/or criminal networks.

Program Areas

Detect/Characterize

Survey/Monitor

Exploit/Maneuver

Interdict

Neutralize/Destruct/Remediate

Prevent/Protect

Highlights

- TSWG-wide thrust
- International significance and knowledge base
- Focus beyond detection for operational relevance



FY 2010 Requirement

R2512

Ultra-High Resolution Surveillance System



R2512

Ultra-High Resolution Surveillance System

- Wide-area video coverage
- 180 degree field-of-view
- Four pinpoint areas of interest chosen by the operator while maintaining panoramic display
- Target motion-detection and tracking options

Target	Vehicles (2.3 m x 2.3 m)		Personnel (1 m x 1 m)	
Function	Threshold	Objective	Threshold	Objective
Detect	9,000	15,000	4,000	7,000
Recognize	3,000	5,000	1,500	3,000
Identify	1,500	2,000	800	1,000



R2512

Ultra-High Resolution Surveillance System

- Store a minimum of 12 hours of video
- Frame rates of 1-3 frames per second
- Communication between components shall be selectable to suit the tactical situation
- Mountable on existing tactical tripods and masts with image stabilization
- Light-weight, rapidly deployable, rapidly recoverable, and simple to operate
- Man portable
- Line power or tactical generator with a minimum 12 hour battery backup



Contact Information

BAA Specific Questions

09-Q-4554@tswg.gov