



**Homeland
Security**

S&T Stakeholders Conference

Response & Defeat Programs

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PARTNERING FOR A SAFER NATION

Mission, Goals & Objectives

- Identify, prioritize, and execute RDT&E projects that satisfy interdepartmental requirements to more safely and effectively render safe terrorist devices.
- Emphasis on technologies to access, diagnose, and defeat
 - improvised explosive devices (IEDs)
 - person-borne improvised explosive devices (PBIEDs)
 - improvised chemical, biological, radiological, and nuclear (CBRN) devices
 - vehicle-borne improvised explosive devices (VBIEDs)
- Deliver advanced tools and technologies to increase the operational capabilities of the federal, state, and local bomb squads to defeat and mitigate terrorist devices.



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Approach

Addressing First Responder need to rapidly and accurately identify all components of a suspect explosive device from a standoff distance, verify a suspect device as an actual threat, and to disarm and render the device harmless.

Access & Diagnostics: Develop technologies to access and analyze an improvised terrorist device to facilitate timely response and prosecution. Once a bomb has been detected, the bomb squad will have to gain access to it and conduct diagnostic analysis of the bomb in order to formulate a render safe procedure.

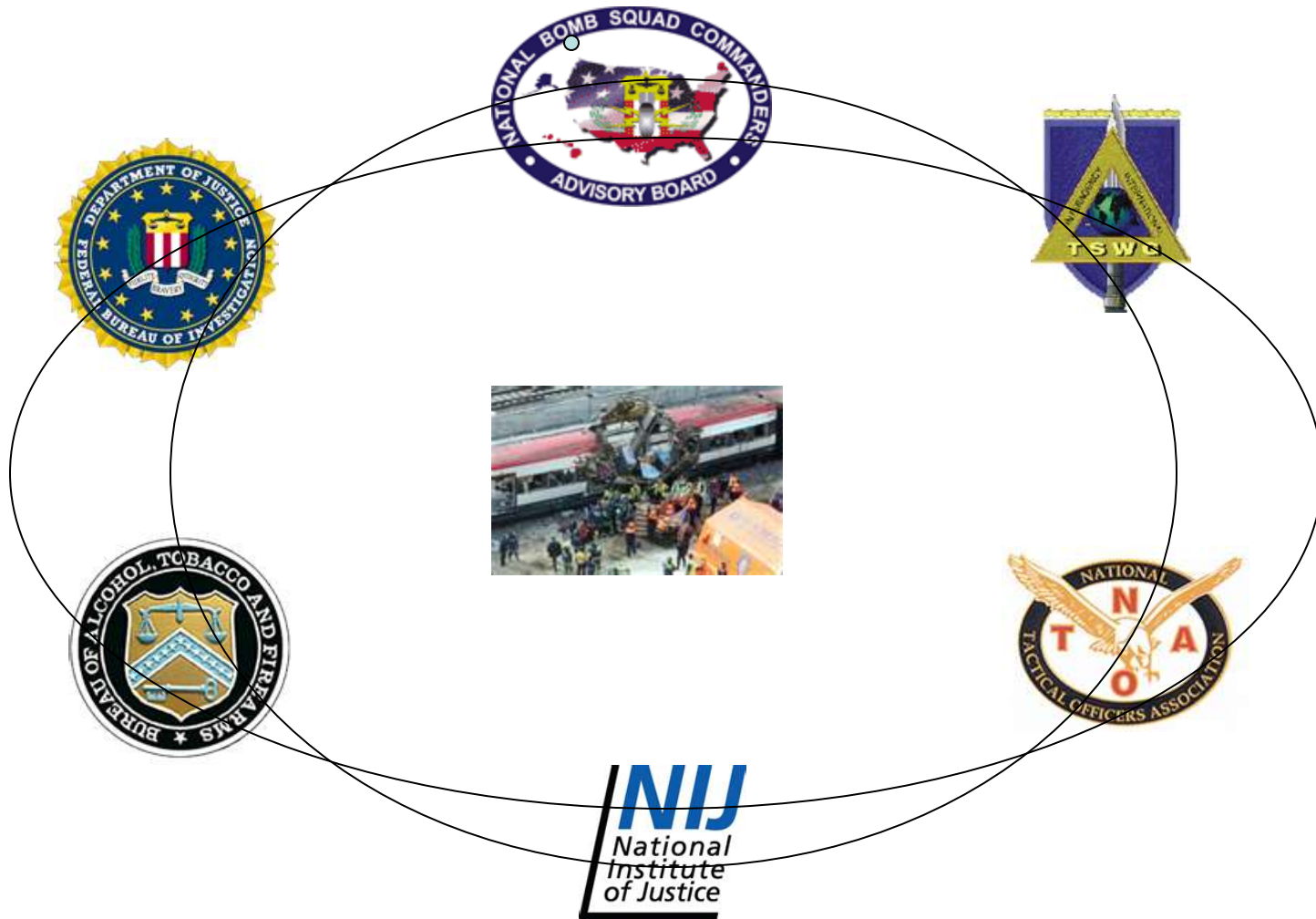
Render Safe/Defeat: Develop technologies that will increase standoff capabilities, reduce collateral damage, and provide precise disruption and disablement capabilities and techniques. Emphasis is placed on developing low-cost solutions that are readily available to the bomb squad community.

Major Program Areas

- Electronic Countermeasures
- Robotics
- Directed Energy
- RSP/Diagnostics
- Post-Blast (Forensics/Inerting)
- Bomb Components
- Body Armor
- Counter Countermeasures



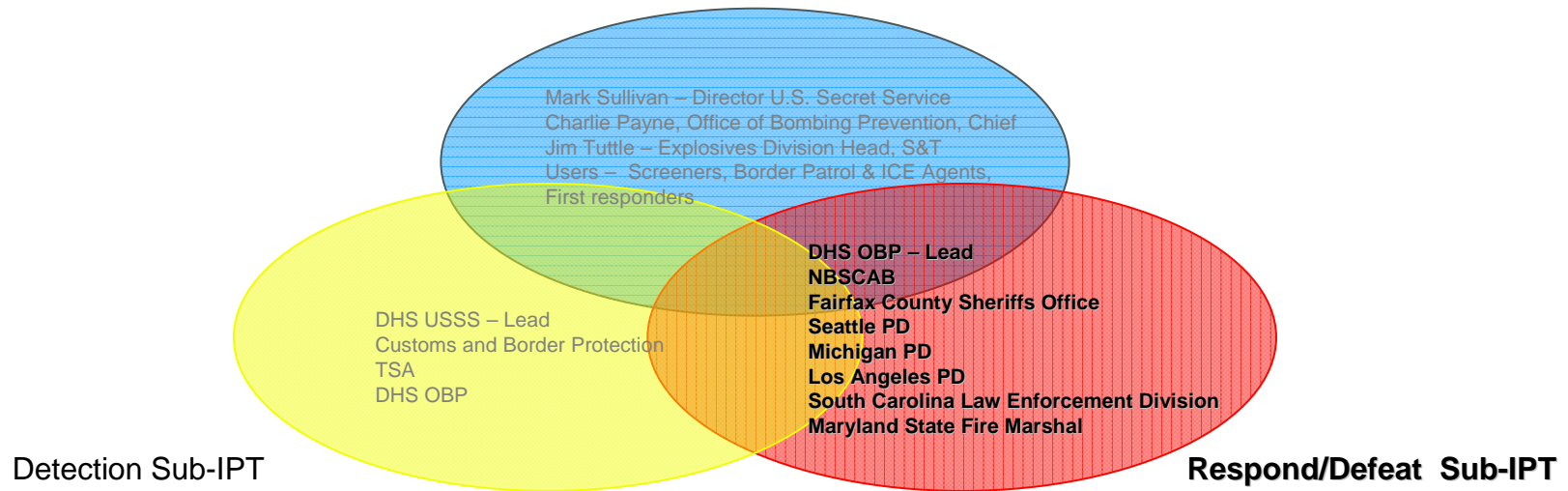
Partners



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Sub-IPT

C-IED CAPSTONE IPT



Other Component/Agency Participation
Customs and Border Protection
U.S. Coast Guard
Office of Infrastructure Protection
Leveraged efforts from DOD, TSWG and DOJ

Response Sequence

Notification

- Communications interoperability
- Information-sharing

Reconnaissance

- UAV
- Long-range cameras
- Robotics (autonomous)
- Sensors

Access and Diagnostics

- Access techniques (non-explosive methods)
- Fiberscopes
- Portable digital imaging systems
- Single-sided imaging systems



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Response Sequence (continued)

Defeat

- Neutralization charges (do not use water as the force medium)
- Neutralization techniques (non-explosive methods)

Investigations

- Portable laboratory forensics capability

Storage/Disposal

- Portable magazines
- Disposal methods (large quantities of explosives)

On-Going Efforts

- Non-Explosive IED Defeat Tool
- Characterization of Disruption Tools
- Critical Incident Response Technology Seminars (CIRTS)
- Information Sharing Technologies
- Compressed Air Cannon (New FY08)

New Needs

Basic Research & Prototypes

- Autonomous Response (Robotics)
- Non-explosive render-safe tools
- Protective Materials/Lightweight bomb suits (provide thermal, blast, and fragmentation protection)
- Means to dispose of large quantities of explosives

Long Range Broad Agency Announcement

Can be found on [FEDBIZOPS](#)

General Information

Notice Type:

Modification/Amendment

Posted Date:

December 12, 2007

Response Date:

December 31, 2008

Topical Areas of strategic interest include:

Explosives countermeasures, including the detection, mitigation, and response to explosive threats including manpads, home made explosives, improvised explosive devices, suicide bombers and vehicle borne improvised explosive devices.

BAA Announcement #08-01
Posted to FedBizOpps and Grants.gov on 11/08/2007



**LONG RANGE BROAD AGENCY ANNOUNCEMENT (BAA)
FOR
THE DEPARTMENT OF HOMELAND SECURITY
SCIENCE AND TECHNOLOGY DIRECTORATE**

INTRODUCTION:

This solicitation is a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and 35.016. A formal Request for Proposal (RFP) will not be issued.

The Department of Homeland Security (DHS) Science & Technology (S&T) Directorate will not issue paper copies of this announcement. DHS S&T reserves the right to select for award and fund all, some, or none of the Full Proposals received in response to this solicitation. No funding for direct reimbursement of proposal development costs will be allowed. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. However, depending on the markings on the proposal, DHS S&T will adhere to FAR policy on handling source selection information and proprietary proposals. It is the policy of DHS S&T to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

Multiple awards are anticipated to be issued through this BAA and will be based on an assessment of the overall best value to the government. Awards will be made based upon the proposal evaluation, funds availability, and other programmatic considerations. Awards may take the form of contracts, grants, cooperative agreements, or other transaction (OTs) agreements. Therefore, the applicable laws and regulations governing

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