

TRIPwire Technical Resource for Incident Prevention



Homeland Security

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The Bombing Threat

Improvised explosive device (IED) attacks remain the primary tactic for terrorists seeking relatively uncomplicated, inexpensive means for inflicting mass casualties and maximum damage.



Given international precedents for terrorist IED use, the United States must prepare to counter similar attacks domestically.





Office for Bombing Prevention (OBP) Overview

OBP is dedicated to enhancing and coordinating the nation's ability to detect, deter, prevent, and respond to attacks that use improvised explosive devices (IEDs) against critical infrastructure, key resources, and soft targets

To achieve this goal, OBP is actively engaged in three primary areas:

- 1) Coordinating national and intergovernmental bombing prevention efforts;
- 2) Conducting requirements, capabilities, and gap analyses; and
- 3) Promoting information-sharing and bombing prevention awareness.

OBP serves as the Department of Homeland Security's lead agent for ensuring that diverse prevention programs nationwide function together efficiently to meet evolving bombing threats.



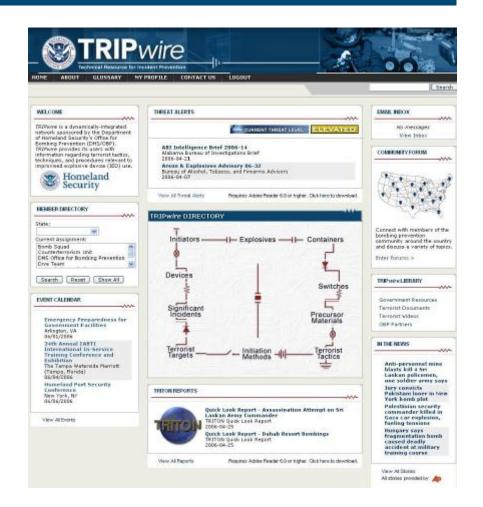


TRIPwire: Technical Resource for Incident Prevention

To counter the IED threat in the United States, the President mandated the establishment of enhanced information-sharing initiatives.

TRIPwire is an online network for U.S. State and local law enforcement officials tasked with bombing prevention to discover and share the technologies, tactics, and procedures (TTPs) of terrorist IED use.

- Access is free, courtesy of DHS's Office for Bombing Prevention.
- TRIPwire is available 24 hours, 7 days a week.
- Access is strictly limited to certified responders. No vendors are allowed.

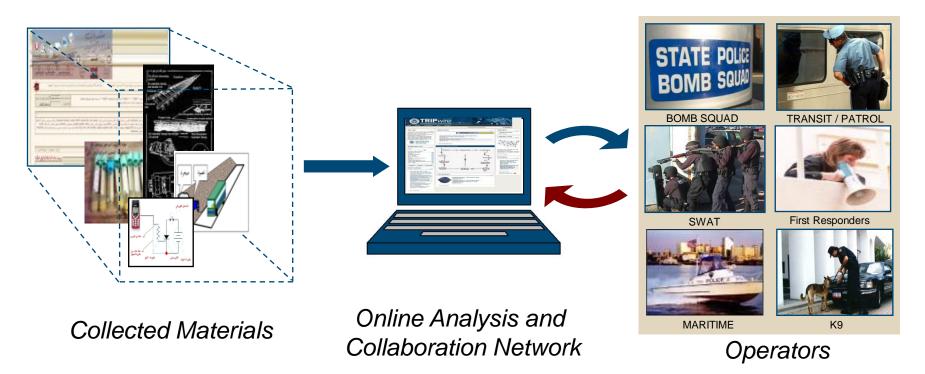






TRIPwire: Technical Resource for Incident Prevention

TRIPwire integrates information gathered directly from terrorist groups with analysis and collaboration tools to help operators *anticipate*, *identify*, and *prevent* bombing incidents.



Community forums, secure e-mail, and discussion threads allow field operators to share experiences and information that promote more accurate situational awareness.





TRIPwire Sources: Terrorist Material

TRIPwire provides current and consistently updated information on terrorist tactics, techniques, and procedures (TTPs).

Key portal content is taken directly from terrorist sources:

TERRORIST MANUALS: describe actual instructions for IED construction, explosive recipes, and operational execution. TERRORIST VIDEOS: depict hours of footage of successful attacks and tutorials on IED manufacture, emplacement, and detonation.



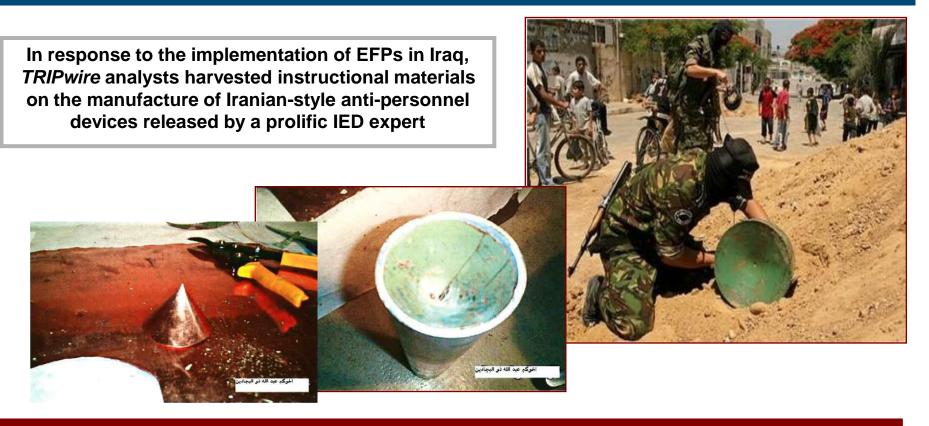






TRIPwire Collection Focus: New Tactics

TRIPwire content reflects newly captured TSM detailing emergent and evolving terrorist tactics.



Identifying new or emerging IEDs allows analysts to develop theories of the next stage in a weapon system's evolution and what that means for domestic preparedness and response efforts





TRIPwire Collection Focus: Refinement of Known Tactics

Innovations in traditional terrorist methods represent a critical threat as they are difficult to anticipate and detect.

SIGNIFICANT INCIDENT >

LER

Overview Incident Date:

Location:

ATTEMPTED UK INCENDIARY BOMBINGS (2007)

29 June 2007

Some of the information on this page was obtained directly from the open-source exploitation of terrorist material. Such material has been translated into English from its original language, but has

calculations, formulas, mixtures, descriptions, or instructions were made by the original authors. Do not attempt to recreate any of the terrorist experiments found within the *TRIPwire* system.

otherwise not been altered, edited, or corrected by the U.S. Government. Any and all errors in

London, England; Glasgow, Scotland, United Kingdom

In order to mitigate this threat, it is crucial to emphasize the collection of terrorist materials detailing variations on traditional TTPs

Vehicle Borne Improvised Explosive Devices

Target: Tiger, Tiger Nightclub Glasgow International Airport شكل السيارة مر هذة المسافة بنشل تجنب الزهاج المقط جراء الانتجار Airnorts جدول توضيحي لكل من لقائل الناتج من الانغم بكرن الإسان بجد ع ية السلالة تد Nightclubs كمية لمادة لمتقم ة 1,250 FEET 501 POUND Coordinated Attack موضوعة في لسيارات Tactic: MT KTL OS 457 METERS 381 METERS Fatalities: عطه لن عندق العبار أ >% mile TRIPwire 1,750 FEET SIZE 1.000 POUNDS 1.750 FE Injuries: 1 534 METERS 534 METE 455 KILOS 55 Gallon Drum > % mile ملة لي مندق الميار: **Incident Details** 4.000 POUND 200 FEE 2,750 FEET 2,750 FE کل برمیل یحتوی علی ۲۷۱ باون من خلیط 1.818 KILOS 61 METERS 838 METERS \$38 METH Incident Description: At approxi 2001.12 . K mile الافو المتفجر ويكون الناتج تقريبا call near a ALL BON LICO POUND 300 FEET 3,750 FE 1.545 KILOS ستة وعشرين الف وستمانة وستة وخمسين = abandoneo NUIFT 1.143 METERS 1,143 METER I METER reported t >%mile nightclub LCCO POUND 6.500 FEET 6,500 FI 13636 811 05 1.982 METER 1.982 لمراد تكميرة وايضا METERS >1 nik لااعداد كمية المادة 7,000 FEET 60.000 POUND 7.000 FEET لمنفجرة للزمة 27.273 KILOS 1.134 METERS 2,134 METERS TRIPwire الكافية لتدمير الهدف 1% mile وللمهتمين بموضوع التوجيه ودراسة الهدف عمة - المادة التي تقلين عليها المتقع ات ها ها م Vehicle Borne IED Identification Guide: Parked Vehicle ر الصفحات التالية :-tential Indicators: Heavy, sagging vehicle (rear-weighted) Illegally parked or near authorized vehic entrances or crowded access points شود بتوسيل الأنبوب بين قبارورة Covered or tinted windows Large containers on seats or cargo are bags, boxes, barrels, tanks License plates removed or altered ect the tube to the acetylene gas cylinder. Odor of gasoline, propane, acids, c Visible wires, switches, batterie Cargo concealed with tarp or blanke FORSERVED CALL DISPATCH OR COMMUNICATIONS CENTER

TRIPwire products inform the bombing prevention community of critical developments in device design and emplacement.

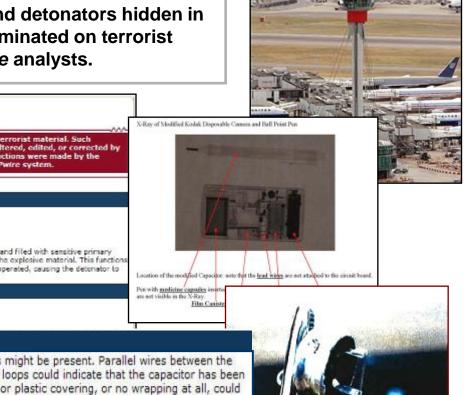




TRIPwire Collection Focus: Emerging Threats

Terrorist use of new hard-to-detect dual-use materials and innovative components are on the cutting-edge of IED tactics.

In 2006, terrorists developed innovative devices and tactics to initiate IEDs on board airliners with liquid explosives and detonators hidden in cameras. These methods were widely disseminated on terrorist websites, and collected by *TRIPwire* analysts.



INITIATOR >

CAMERA FLASH DETONATOR IMPROVISED METHOD #1

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Overview		
Classification:	Electrical	
Category:	Improvised	
Type:	Datonator	
Description:	This electric detonator is improvised from a camera flash. The flash capacitor is hollowed out and filed with sensitive primary explosives, and a tungsten wire is fixed between two prongs within the cap and implanted in the explosive material. This functions as a bridgewire and delivers an electrical charge to the primary explosives when the flash is operated, causing the detonator to function.	



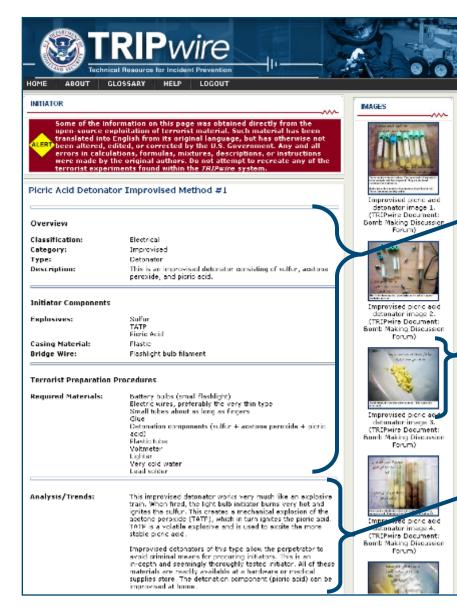
Analysis / Trends

Based on the terrorist's instructions in tampering with the flash, several indicators might be present. Parallel wires between the capacitor and the circuit board that have been severed and reattached with small loops could indicate that the capacitor has been removed. Small incisions on the camera's shell, on the capacitor's metal exterior or plastic covering, or no wrapping at all, could suggest tampering. Once converted into a detonator, the flash could not function normally, so asking people with cameras to operate the flash while gauging their behavior could identify potential terrorists. However, the document suggests staging the operation out of airports in Africa or in poorer countries, where security may not be as tight as in the U.S. This increases the odds that the device could be snuck past security.





TRIPwire: Profile Page



The profile page is the basic unit of information in the *TRIPwire* portal, designed to present data in a concise manner.

 Text fields detail information on a range of explosive and IEDrelevant components.

Graphics and diagrams depict actual terrorist incidents, materials, tactics, and devices.

 Analysis/Trends provides contextual analysis contributed by DHS subject-matter experts.



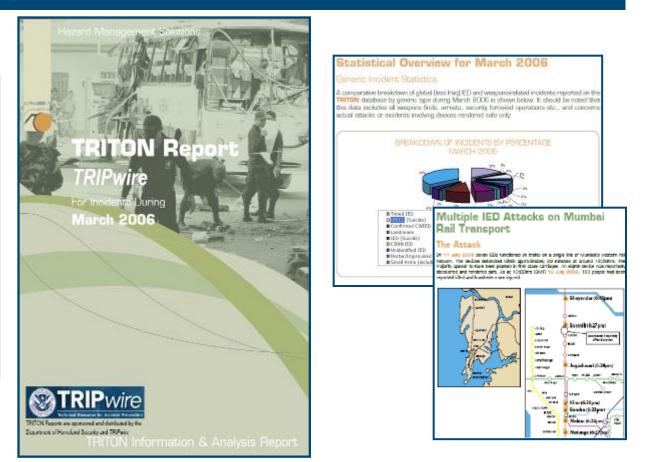


TRIPwire Sources: TRITON Reports

TRITON is the industry-standard report on international terrorist incidents.

TRITON Reports provide a comprehensive overview of IED and terrorist incidents in three formats:

- Monthly Reports
- Iraq Supplements
- Quick Look Reports



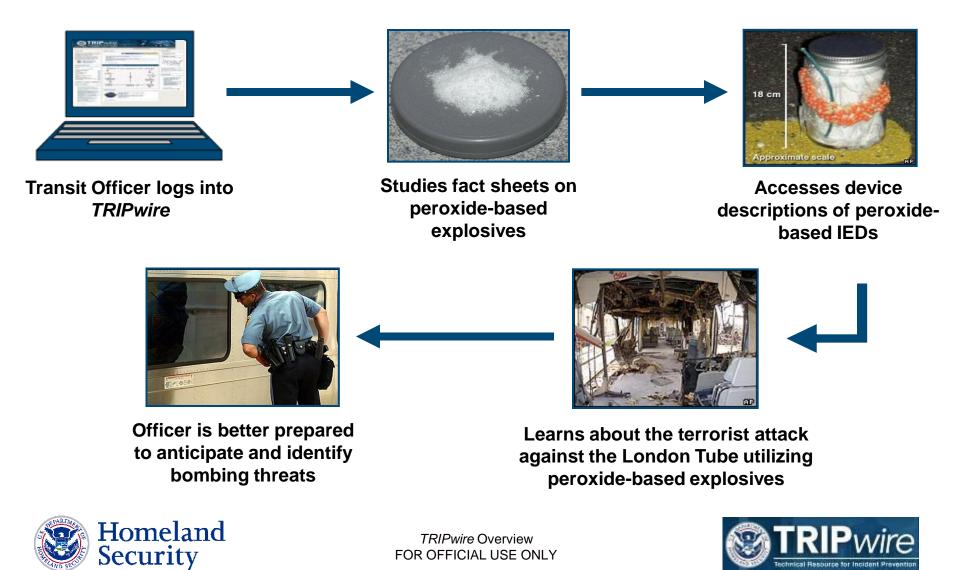
TRIPwire has exclusive rights to provide TRITON reports to the State and local Bombing Prevention community.





TRIPwire Benefits

DHS releases a threat bulletin indicating terrorist interest in using peroxide-based explosives to attack subway systems.



TRIPwire Benefits: Improved Bombing Prevention Knowledge

The transit officer studies *TRIPwire* profiles to learn about terrorist TTPs for the manufacture of explosives and IEDs:



Learns to be aware of dual-use precursor chemicals such as acetone and hydrogen peroxide to make peroxide-based explosives.



Discovers it is a highly sensitive white powdery substance with a strong acidic odor.



Encounters actual terrorist instructions for IEDs using peroxide-based explosives.





TRIPwire Benefits: Improved Bombing Prevention Awareness



The officer studies tactics used in previous international terrorist incidents targeting subway systems.

Feedback from a member of the Chief William Bratton of the LAPD and user of *TRIPwire*:

"TRIPwire is exactly the kind of support local law enforcement needs on the federal level to combat and to interdict terrorism,"

"TRIPwire is an example of using technology to tie the various and mostly separate law enforcement agencies together into a seamless crime web."

The transit officer has improved knowledge and awareness of precursor materials, explosives, and possible IEDs in the form of bags or packages left on trains or at major transfer stations.

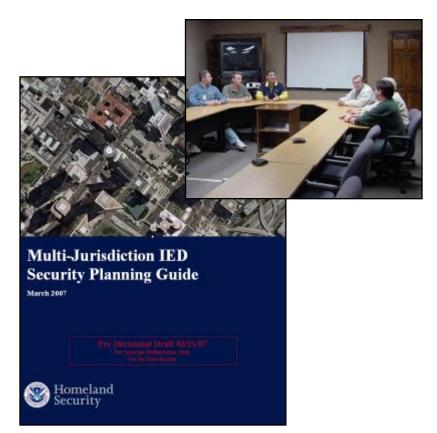




OBP Programs: Multi-Jurisdiction Planning

Multi-Jurisdiction Improvised Explosive Devices Security Plans (MJIEDSPs) assist high-risk, multi-jurisdiction urban environments ensure efficient, effective responses to bombing threats or incidents

- An effective response to bombing threats is not just the responsibility of bomb squads—it requires the coordination of many different disciplines and public safety organizations.
- The MJIEDSP process assists high-risk urban areas in developing thorough IED Security plans that efficiently integrate assets and capabilities from multiple jurisdictions and emergency service sectors.
- OBP works closely with each MJIEDSP community to inform them about planning and operational requirements for IED incident response, culminating in the development of a NRP and NIMS compliant multi-jurisdiction plan.







National Campaign Event: Philadelphia, September 20th, 2007

DHS Secretary Michael Chertoff, Mayor John Street, Police Commissioner Sylvester Johnson, and PA State Homeland Security Advisory James Powers participated in the largest National Campaign Event to date at City Hall in Philadelphia.

- Secretary Chertoff delivered keynote remarks highlighting recent DHS effort to address IEDs, including Office for Bombing Prevention, the national strategy for IEDs, and the use of grant funding to assist State and local responders.
- Secretary Chertoff and the other dignitaries viewed a demonstration of TRIPwire and the equipment and resources brought by local bomb squads and explosives detection canine teams.
- Over 100 law enforcement and security personnel participated in IED awareness training held at the University of Pennsylvania.
- OBP conducted capability analysis for select local bomb squads to gauge the region's level of preparedness for IED threats.
- The event was featured in worldwide and national









Accessing TRIPwire

To register for a *TRIPwire* account go to www.tripwire-dhs.net

TRIPwire	Click "Register for Account?"
LOGIN Username: Password: Submit	Complete electronic registration form and click "Submit"
WARNENE: This system is for the use of authorized users Individuals using this computer system without authority of excess of their authority, are subject to having all of their activities an this system, minimized and recorded by system personnel. In the course of munitoring individuals imprope using this system, are in the course of system maintenance activities at authorized intervine of system maintenance activities at authorized intervine of system maintenance activities at authorized intervine of system monitoring. Anyo using this system correctly activity of the monitoring to advised that if such monitoring reveals possible evidence of unimised activity, system personnial may provide the evides such monitoring to law enforcement officiels.	The <i>TRIPwire</i> Help Desk will contact you to confirm the status of

The TRIPwire Help Desk is open Monday through Friday, 9 AM until 6 PM, Eastern Standard Time. Inquiries made outside of help desk hours will be answered the next business day.









Homeland Security

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National Campaign

OBP is currently conducting an ongoing series of National Improvised Explosive Device (IED) Prevention and Awareness Campaign events throughout the 2007-2008 calendar year.

The National IED Prevention and Awareness Campaign is designed to:

- Emphasize the IED threat and the importance of the bombing prevention mission;
- Provide information to the public and media about role DHS is playing with Federal, State, and local partners to combat IEDs; and
- Educate stakeholders on resources available to assist them via DHS or partner agencies.

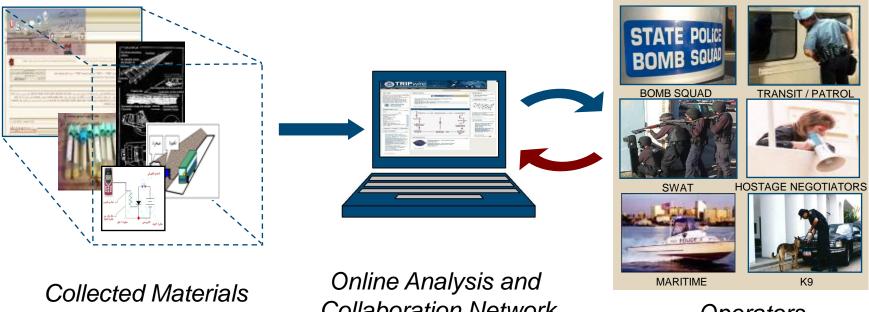






National Campaign and TRIPwire

The Campaign's message of information sharing is underscored by *TRIPwire*. *TRIPwire* is an online network for State and local law enforcement officials tasked with bombing prevention to discover and share the technologies, tactics, and procedures (TTPs) of terrorist IED use.



Collaboration Network

Operators

Community forums, secure e-mail, and discussion threads allow field operators to share experiences and information that promote more accurate situational awareness. *TRIPwire* demonstrations and enrollment is held at each campaign event to encourage IED prevention and awareness-related information sharing.



Homeland Security



National Campaign Event: Los Angeles, November 3rd, 2006

OBP publicly launched *TRIPwire* and held a National Campaign event with the Under Secretary for Preparedness, LAPD Chief William Bratton, and Mayor Antonio Villaraigosa at the LAPD Training Academy.

- TRIPwire was unveiled to the public in a press conference outside LA City Hall that received national media attention.
- OBP conducted *TRIPwire* demonstration sessions and an IED tabletop exercise with representatives from the LA Bomb Squad, Canine Units, Fire Department, HazMat Unit, Counter Terrorism Unit, and SWAT.
- The Under Secretary highlighted the importance of information sharing and interagency coordination in countering the IED threat.
- The success of the event emphasized the critical need for partnerships and coordinated bombing prevention efforts between Federal, State, and local stakeholders.







National Campaign Event: Nashville, January 8th, 2007

This National Campaign event included the Deputy Assistant Secretary for Infrastructure Protection, Tennessee Homeland Security Director Dave Mitchell, and Tennessee Bureau of Investigation (TBI) Director Mark Gwyn at TBI Headquarters.



- OBP conducted *TRIPwire* demos and IED tabletop exercises with representatives from the Nashville Bomb Squad, K-9 EOD, HazMat Unit, Military, and ATF.
- Director Mitchell highlighted the importance of information sharing and interagency coordination in countering the IED threat.
- The event was attended by key stakeholders in IED prevention from around Tennessee, including all bomb-squad commanders in the State.
- The event received significant media coverage and emphasized the importance for information sharing and IED awareness for the general public.





National Campaign Event: Raleigh, July 23rd, 2007

Congressman David Price and Assistant Secretary for Infrastructure Protection Robert Stephan hosted this all-day National Campaign event in Raleigh, NC.

- Rep. Price and Assistant Secretary Stephan delivered remarks to the press highlighting the importance of adequate equipment and training for first responders, information sharing between levels of government, and public awareness to prevent terrorist IED plots.
- Over 240 law enforcement and private sector security personnel participated in IED awareness training held at the RBC Center in Raleigh.
- OBP conducted capability analysis for all bomb squads in the state of NC to gauge the State's level of preparedness for IED threats.
- The event was featured in local and regional press including The News & Observer and various national broadcast news affiliates including regional ABC and CBS stations.







OBP Programs: Capabilities Analysis and Enhancement

The National Capabilities Analysis Database (NCAD) is currently gathering comprehensive data on our State & local first responders to assess their operational IED security capabilities

- NCAD provides an analysis of bomb squad, explosive detection canine unit, SWAT, and public safety dive team IED security operational capabilities and readiness throughout the United States using a task-based model of assessment.
- Results are integrated into the comprehensive NCAD database to help establish and measure progress toward IED security-related national preparedness goals.
- The NCAD program is closely linked to the Multi-Jurisdiction IED Security Plan (MJIEDSP) program, which combined provide DHS officials with an accurate, data-driven decision support tool for national IED security capabilities enhancement.







NCAD Results

To date, NCAD has surveyed over 120 public safety bomb squads and 12 public safety dive teams, providing a snapshot of our national preparedness

- NCAD gap analysis results provide justification for equipment and training investments
- NCAD gap analysis results inform the development of technology requirements and roadmaps
- Sample gap analysis from NCAD:
 - 96% of squads surveyed have electronic countermeasures (ECM) capability;
 - 74% of squads surveyed have no nuclear or radiological identification capability;
 - 58% of squads surveyed have no secure voice capability; and
 - 50% of squads surveyed have no capability to work in low or zero light.



