



CTTSO

Combating Terrorism Technical Support Office

Interagency Combating Terrorism Technology Support



Gabe Ramos, Deputy Director, Technology Division

28 April 2010



Combating Terrorism Technical Support Office

Vision:

Identify requirements to combat terrorism and provide solutions to warfighters, first responders, and other front-line users as rapidly as possible.

Mission:

Identify and prioritize the needs of the interagency community charged with combating terrorism. Deliver capabilities to those on the front lines through rapid research, development, test, evaluation, and operational support. Incorporate available expertise and experience from government, commercial, private, and academic sources throughout the United States and the world.

Objectives:

- Provide interagency forum to coordinate R&D requirements for combating terrorism
- Sponsor interagency advanced technology development
- Promulgate technology & information transfer
- Influence policy development
- Guide basic and applied research



CTTSO Organization



Special Operations/Low-Intensity
Conflict & Interdependent
Capabilities



Department
of State



Combating Terrorism
Technical
Support Office



Technical Support
Working Group



Explosive Ordnance
Disposal/Low-Intensity Conflict



Irregular Warfare
Support



Human, Social, Cultural,
& Behavior Modeling



TSWG Organization





**INTERNATIONAL
PROGRAMS**



TSWG Mission

- **Mission:** Conduct the U.S. national interagency research and development program for Combating Terrorism through rapid research, development, and prototyping.
- **Objectives:**
 - Provide interagency forum to coordinate R&D requirements for combating terrorism
 - Sponsor R&D not addressed by individual agencies
 - Promote information transfer



Interagency Partnership



Department of Defense

OASD(SO/LIC)
OATSD(NCB)CP/CBD
OUSD(A&T) DDR&E and S&TS/LW
Armed Forces Institute of Pathology
Defense Advanced Research Projects Agency
Defense Computer Forensics Laboratory
Defense Intelligence Agency
Defense Threat Reduction Agency
Joint IED Defeat Task Force
National Security Agency
Pentagon Force Protection Agency
Polygraph Institute
The Joint Staff
Unified Commands
US Special Operations Command
US Air Force
 Air Combat Command
 Air Force Research Lab
 Electronic Systems Center
 AFOSI
US Army
 52nd ORD
 SBCCOM / ECBC
 Corps of Engineers / ERDC / PMDC
 Criminal Investigations Command
 Natick RDE Center
 20th Support Command (CBRNE)
 Training and Doctrine Command
 National Guard Bureau
US Navy
 Naval Criminal Investigative Service
 Naval Facilities Engineering Service Center
 Naval Special Warfare
 NEODTD / DTRG

US Marine Corps

Chemical Biological Incident Response Force
Network Operations & Security Command

Department of State

Bureau of Diplomatic Security
Office of the Coordinator for Counterterrorism
Overseas Building Operations

Department of Agriculture

Agricultural Research Service
Animal and Plant Health Inspection Service
Food Safety and Inspection Service
Office of the Inspector General

Department of Energy

National Nuclear Security Administration
Office of Energy Assurance
Office of Security

Department of Health and Human Services/USPHS

Centers for Disease Control & Prevention
Food & Drug Administration
National Institute for Occupational Safety and Health

Department of Homeland Security

Border and Transportation Security
Immigration and Customs Enforcement
Office for Domestic Preparedness
Emergency Preparedness & Response
Transportation Security Agency
Science and Technology
US Coast Guard
US Secret Service

Department of Commerce

National Institute of Standards and Technology
Office of Law Enforcement Standards

Department of Justice

Bureau of Alcohol, Tobacco, Firearms and Explosives
Drug Enforcement Administration
Federal Bureau of Investigation
Federal Bureau of Prisons
National Institute of Justice
Office of Justice Programs
US Marshals Service

Department of Transportation

Federal Aviation Administration
Federal Railroad Administration
Federal Transit Administration
National Highway Traffic Safety Administration
Volpe National Transportation Systems Center

Department of the Treasury

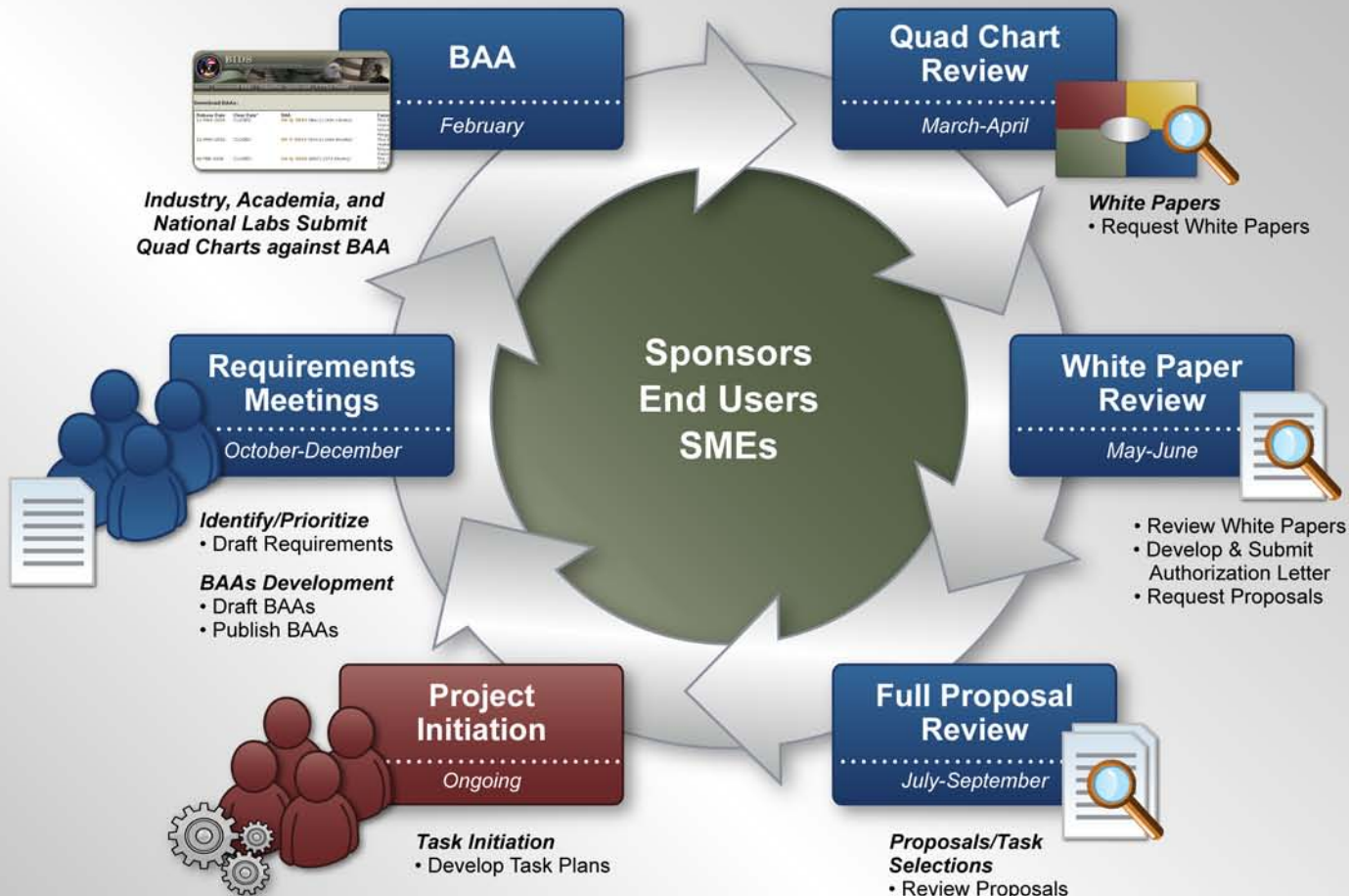
Federal Reserve Board

Independent Agencies

Environmental Protection Agency
General Services Administration
Intelligence Community
Interagency Board
National Virtual Translation Center
Nuclear Regulatory Commission
State and Local Agencies
Supreme Court of the United States
US Capital Police
US Postal Inspection Service
US Senate Sergeant at Arms
US Supreme Court Police



Business Cycle





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BIDS Advisory and Announcements

NEWS

27-JAN-2010 2010 APBI Program Book and Presentation Slides

The program book and presentation slides from the 2010 Advanced Planning Briefing for Industry (APBI) are now available in the [Reference Materials](#) page under the APBI section.

NEWS

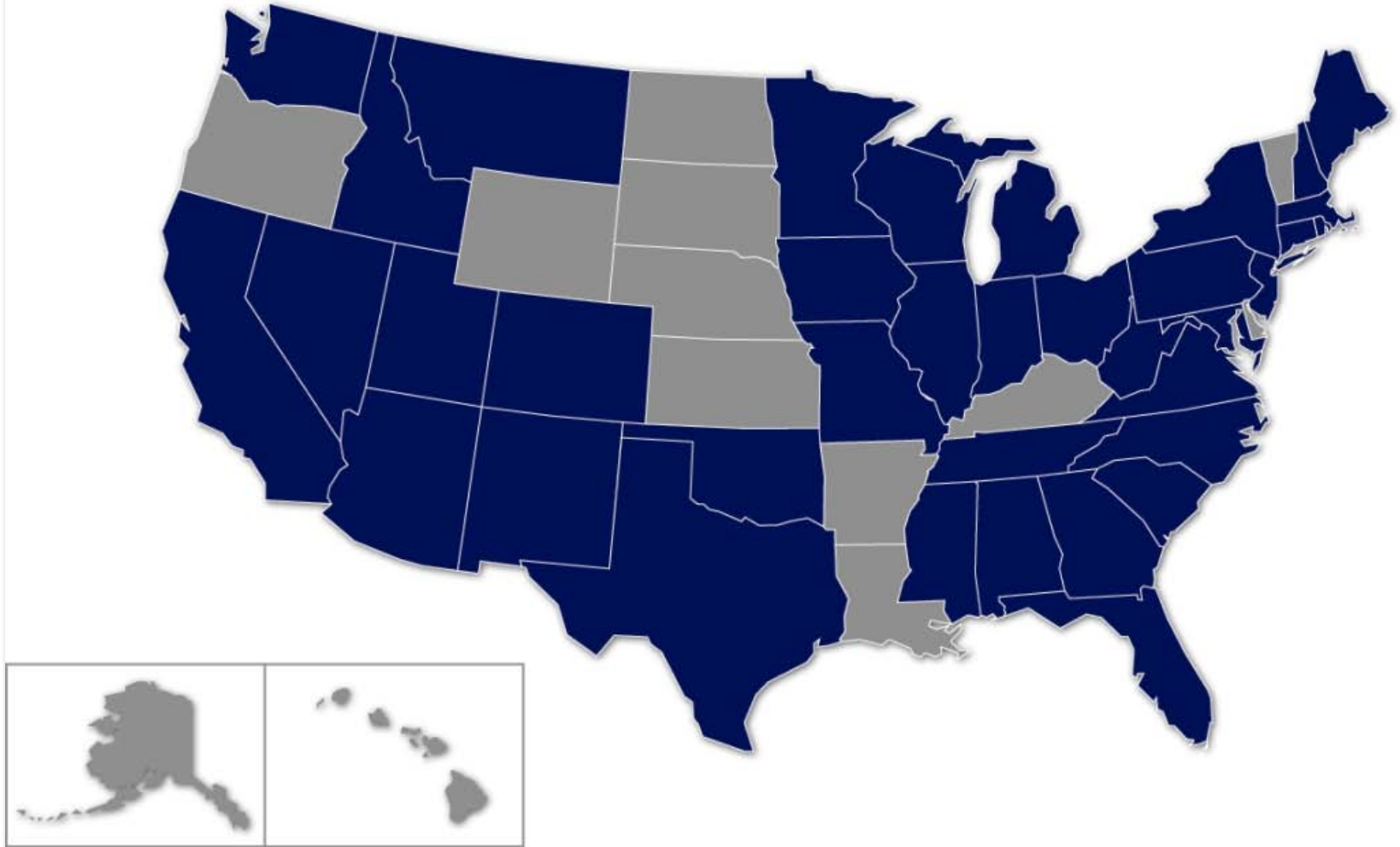
25-JAN-2010 Personnel Protection BAA Instruction Package

This is the Combating Terrorism Technology Support Office / Technical Support Working Group (TSWG) Broad Agency Announcement (BAA), 10-Q-3338, for the Personnel Protection Subgroup issued under the provisions of paragraph 6.102(d)(2) (i) of the Federal Acquisition Regulation (FAR), to provide for the competitive selection of research white papers followed by proposals. Contracts based on responses to this BAA are considered to be the result of full and open competition and in full compliance with the provisions of Public Law (PL) 98-369, "The Competition in Contracting Act of 1984."

The TSWG Personnel Protection (PP) Subgroup is interested in two (2) advanced technology development efforts. The first effort involves cellular communications and frequency emitters and the second involves small unmanned aerial vehicles and communications technology. Specific details on required performance characteristics and potential mission application for each effort is classified and will be provided at a classified Bidder's Conference hosted by the TSWG on February 26, 2010. See section 3.1. "Bidders Conference" of the [BAA Instruction Package](#) for details.



CTTSO Performers



TSWG Projects



Australia



Canada



France



Germany



Israel



New Zealand



Singapore



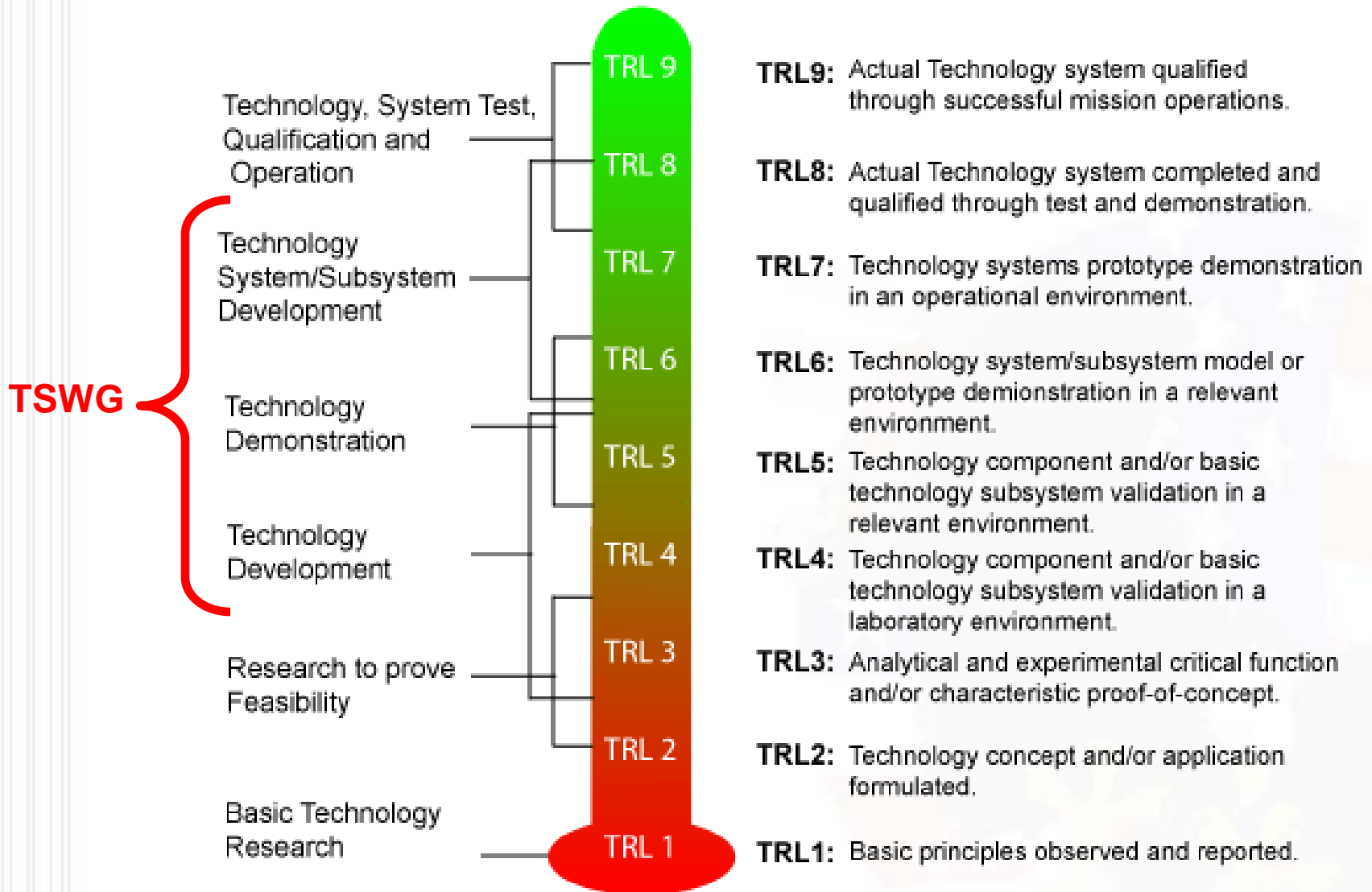
Switzerland



United Kingdom



Technology Readiness Levels



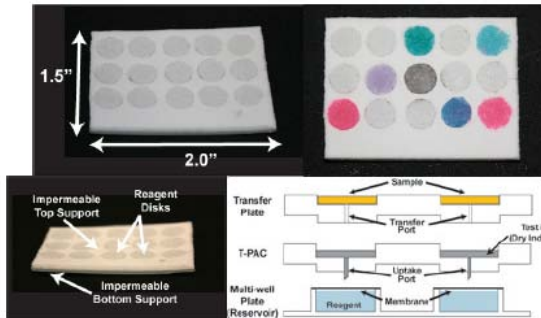


Technology Transition

- Objective: Affordable, operationally suitable technology in the hands of our users
- An integral part of TSWG process
 - Begins with the proposal
 - Continues throughout development
 - Requires periodic deliverables
- Prepares for the unexpected
- Planning assistance provided by TSWG/CTTSO
- Accelerates prototype to product cycle



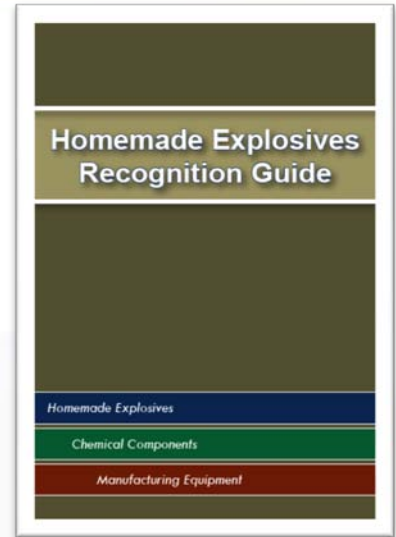
TSWG Project Highlights



HME Precursor Detection Kit



Hardened Trace Explosives Detector



Tactical Pocket Reference
**Initial Actions Upon
Attack, Discovery or
Exposure of Chemical
Agents**
A Guide For Coalition Forces



Remember:
Only trained EOD personnel are
to move any unidentified
unexploded ordnance (UXO)

This document is classified
For Official Use Only (FOUO).

Graphical Training Aids



**Car Scan –
Dual Energy Low Dose X-Ray**



Single-Sided X-Ray



TSWG Project Highlights



Forward Fighting Positions



Digital Observation Guard



Urban Canyon



Personal Hydration System Water Filter



Tactical Glove



FIVAK



TSWG Project Highlights



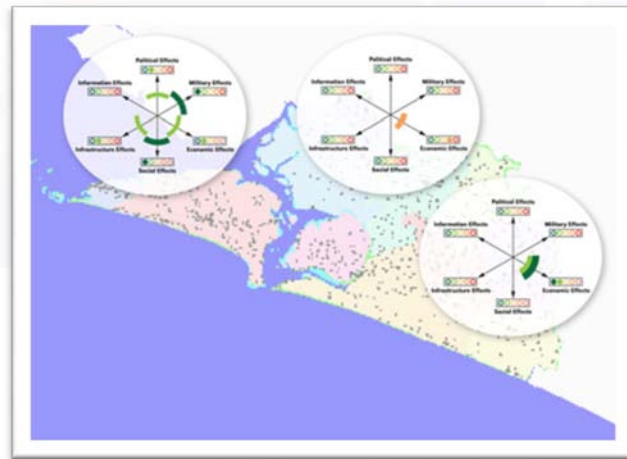
X800/X400 Through-Wall Imaging



Improved Laser/Light Aiming Device



Vapor Wake Canines



HSCB – S-CAT Decision aid



CTTSO Conferences/Workshops

Explosives Detection 2009 Symposium and Workshop

October 20-23 | San Diego, CA



Personal Protective Equipment Conference New Technologies - Standards - Training for Emergency Response | Fort Lauderdale, FL | November 16 - 20 **2009**





Homeland Security Presidential Directive -19 (HSPD-19)

HSPD-19 establishes a national policy and calls for the development of a strategy to prevent, detect, and respond to terrorist's use of explosives in the United States. The HSPD-19 Implementation Plan mandates the creation of an interagency working group for counter-IED technologies in the science and technology field.

CTTSO co-chairs the Domestic Counter-Improvised Explosives Devices (IED) Working Group under the White House National Science and Technology Council Committee on Homeland and National Security.

The working group is conducting a government-wide inventory of R&D efforts to identify responder requirements from CONUS based counter-IED agencies.

The working group will then analyze needs against capabilities and produce a gap analysis for interagency coordination of research, development, test and evaluation to address the technology gaps.



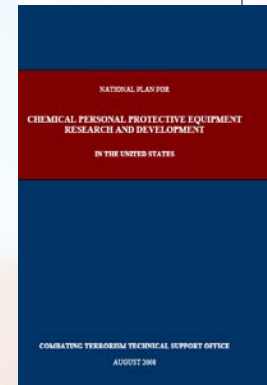


Homeland Security Presidential Directive -22 (HSPD-22)

The HSPD-22 establishes a national policy to strengthen the United States' ability to prevent, respond to, and recover from toxic chemical terrorist attacks and chemical incidents. CTTSO/TSWG coordinated with agency heads to deliver a National Research and Development Plan for Personal Protective Equipment (PPE).

HSPD-22 launches a strategy for focused R&D in chemical PPE to address the utility and availability of PPE for chemical incident response.

The plan recommends objectives to establish a coordinated partnership with standards-setting organizations, industry representatives, and professional organizations that improves the level of **protection, utility, and availability** of high quality chemical PPE.



The White House approved the plan in January 2009. The implementation plan is under development with the White House Homeland Security Council and has the potential to garner additional focused research and funding in the chemical PPE arena.



Summary

- Forum to Identify, Prioritize, Resolve, and Fund Operational Needs/Requirements
- Driven by Interagency User Elements
- Acquisition / Dual Use / Commercialization
- Fast Track and Flexible Program Forum



Contact Information

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