Where We Came From: Charting the Path Forward

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Tenth Annual Plenary
ANSI Homeland Security Standards Panel
November 9, 2011

The Absence of Standards is Creating Confusion for the Users

Does this work?

Does this solve the right problem?

How do I test this?

NOW AVAILABLE!

Radiation/Multi-Toxin Detection Meter

$299.99*

- Advanced Radiation and Bio-Chemical Agent Protection!
- Industry Leading Working Duration
- Completely Self-Contained
- Compact [illegible] Innovative Design

** Special GSA rates on request*

How do I use this?

Will this work with my other devices?

Should I buy this? How do I comparison shop?

The Homeland Security Enterprise


Cyber


Chemical/
Biological Defense


People
Screening


Maritime


Incident
Management


Transportation

Cargo


First Responder
Technologies

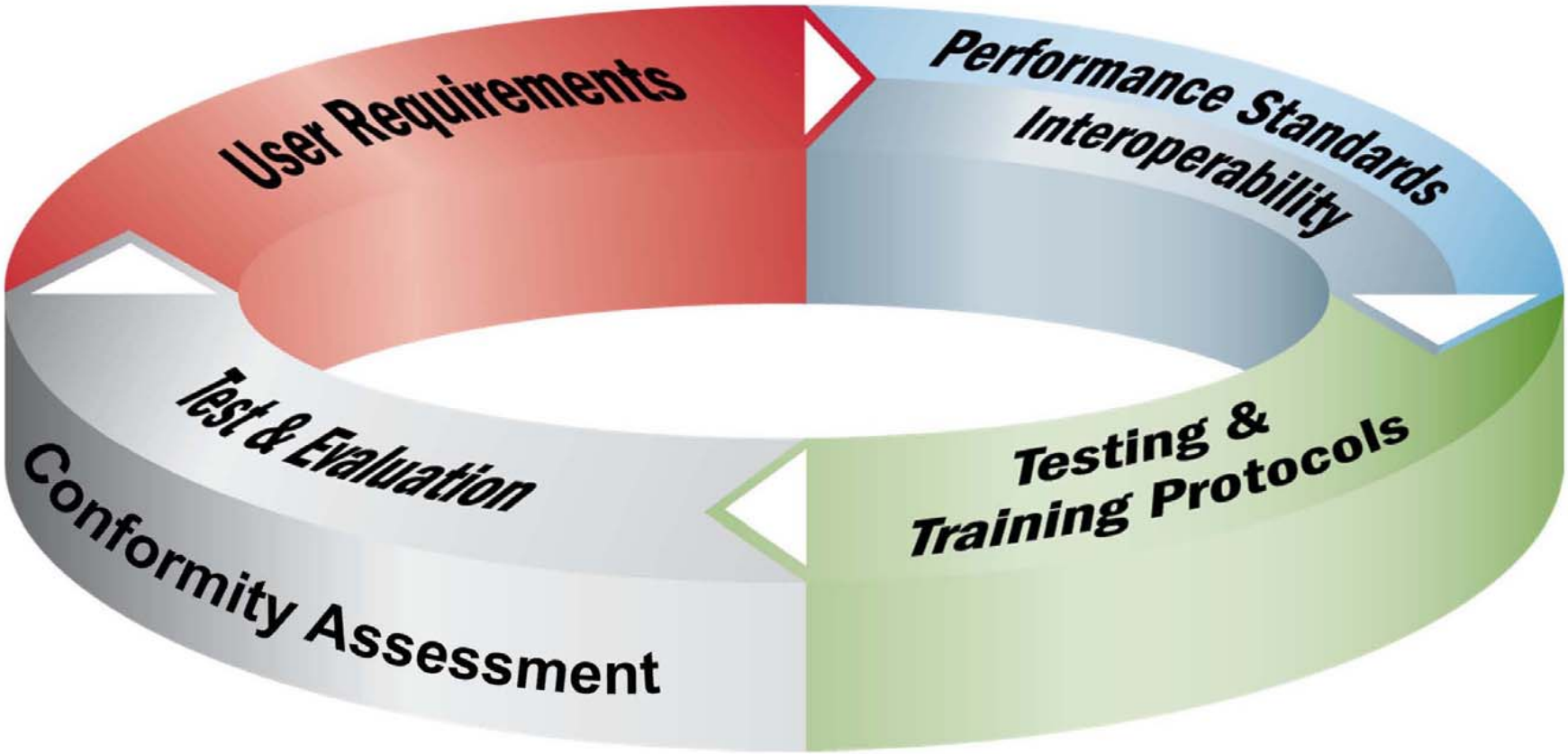

Counter IED


Interoperable
Communications


Infrastructure
Protection

Technological Tools to Mitigate Threats


Border

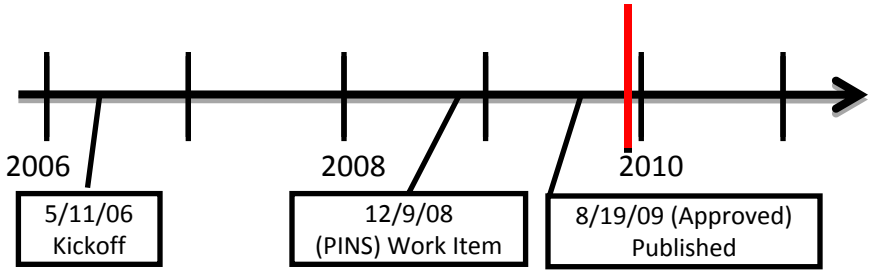

User Requirements
Performance Standards
Interoperability
Testing &
Training Protocols
Test & Evaluation
Conformity Assessment

Timeline for the Development of X-Ray Backscatter Standards - ANSI HPS & ANSI IEEE

Radiation Safety:

ANSI/HPS N43.17-2009

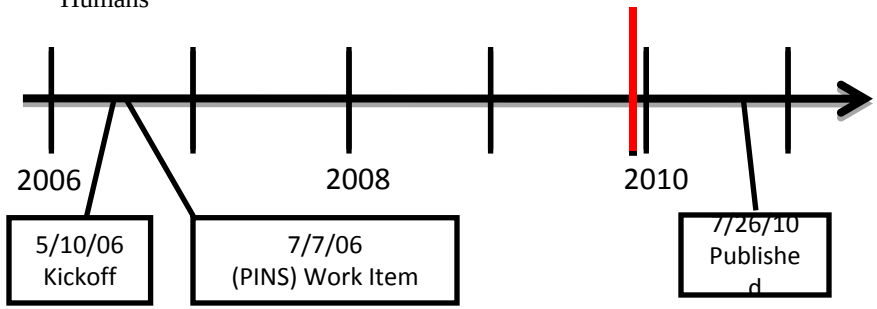
Radiation Safety for Personnel Security Screening Systems Using X-Ray or Gamma Radiation

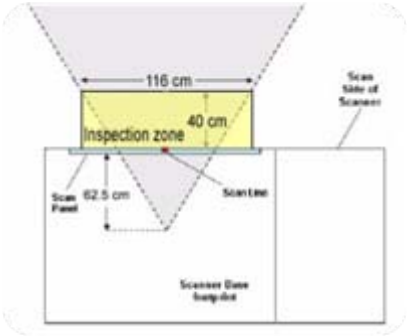


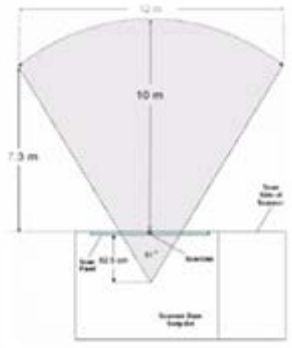
Technical Performance (Image Quality):

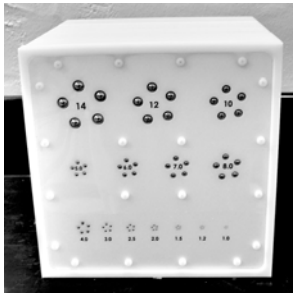
ANSI-IEEE N42.47-2010

American National Standard for Measuring the Imaging Performance of X-Ray and Gamma-Ray Systems for Security Screening of Humans









ANSI-IEEE N42.47 test article

Public/Private Partnerships
X-Ray Inspection Standards

Government:

TSIF, TMEC/DOD, USSS, SRNL/DOE, TSL/DHS/S&T, TSA/FAA, Canadian Nuclear Safety Commission, CDRH/FDA, CBP/DHS, DNDO/DHS, Fed. Bur. Prisons/DOJ, NIJ/DOJ, Transport Canada, NIST/OLES/DOC, state & local governments, Hazardous Devices School / NBSCAB

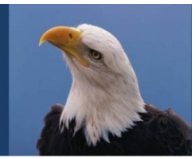
Industrial:

Analogic, Astrophysics Corporation, ENSCO, Morpho Detection, Inc., SAIC, Booz Allen Hamilton, SureScan Corporation, Control Screening, AS&E, L-3 Communications, Rapiscan Systems, Smiths Detection, Tek84 LLC, SecurePath, HighCom, CSC, SRA Intl., SCA, Battelle, Varian, Underwriter's Laboratories, Valley Forge Imaging

IEEE

ANSI
American National Standards Institute

American National Standards Institute
HOMELAND SECURITY STANDARDS PANEL



ASTM INTERNATIONAL

Homeland Security
Science and Technology

IEC

NIST
National Institute of Standards and Technology

DHS Adopted Standards

Standards for Personal Protective Gear for First Responders

Standards for Radiation and Nuclear Detection Equipment

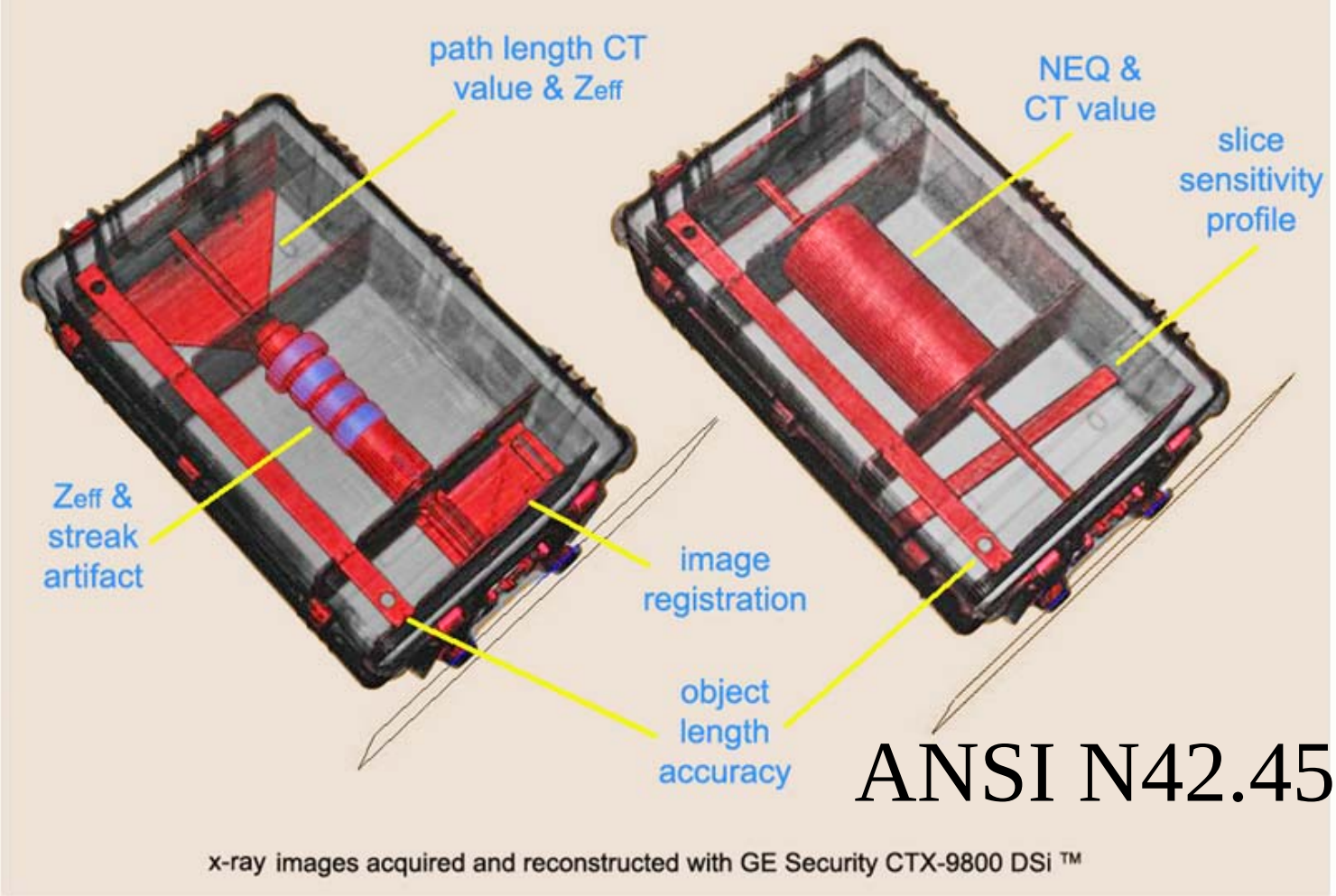
Standards for Incident Management

Standards for Biometrics

Standards for Business Continuity and Emergency Preparedness

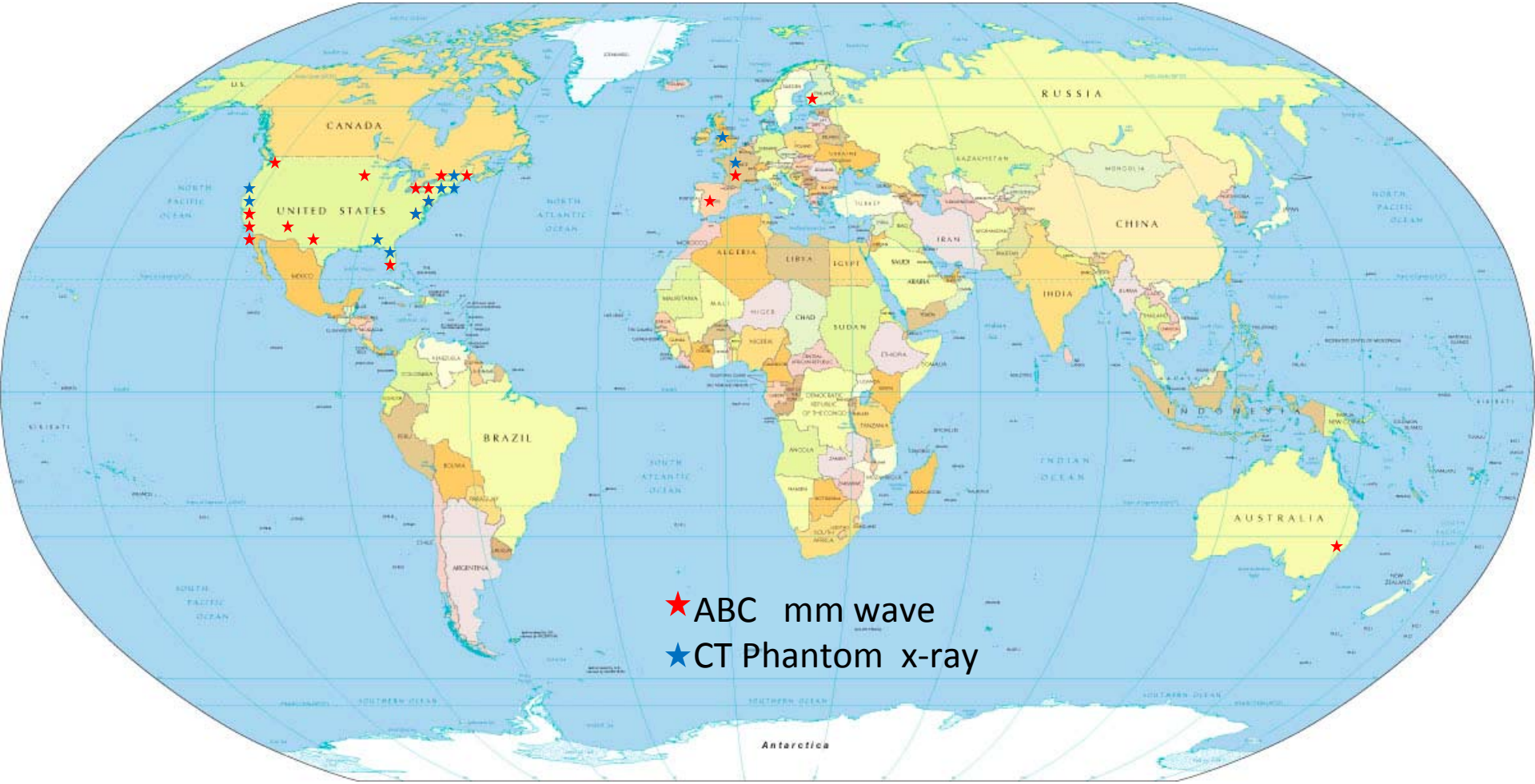

ANSI N42.45 Test Articles for CT Security Screening
254
NIST
ANSI

Test Articles for CT Security Screening



Homeland Security

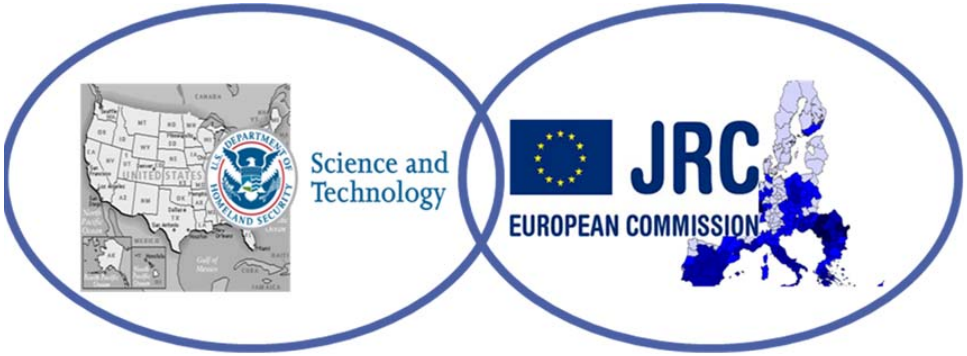
Explosives Detection Artifacts Distribution



Due to the proportions a majority of the stars represent multiple locations that calibration artifacts have been distributed to.

Homeland Security

US-European Security Standardization



- In support of greater US-EU collaboration on security standards, NIST/DHS/ ANSI, and the JRC have prepared a white paper that outlines the benefits of collaboration:
    - Enhanced security
    - Support for innovation
    - Broad array of economic benefits
    - Support for international standards (ISO-IEC-ITU)
- Reviews US and EU laws and initiatives
- Characterizes how EU-US collaboration could work
- Suggests possible high-priority areas for EU-US collaboration

Secretary Napolitano on Standards

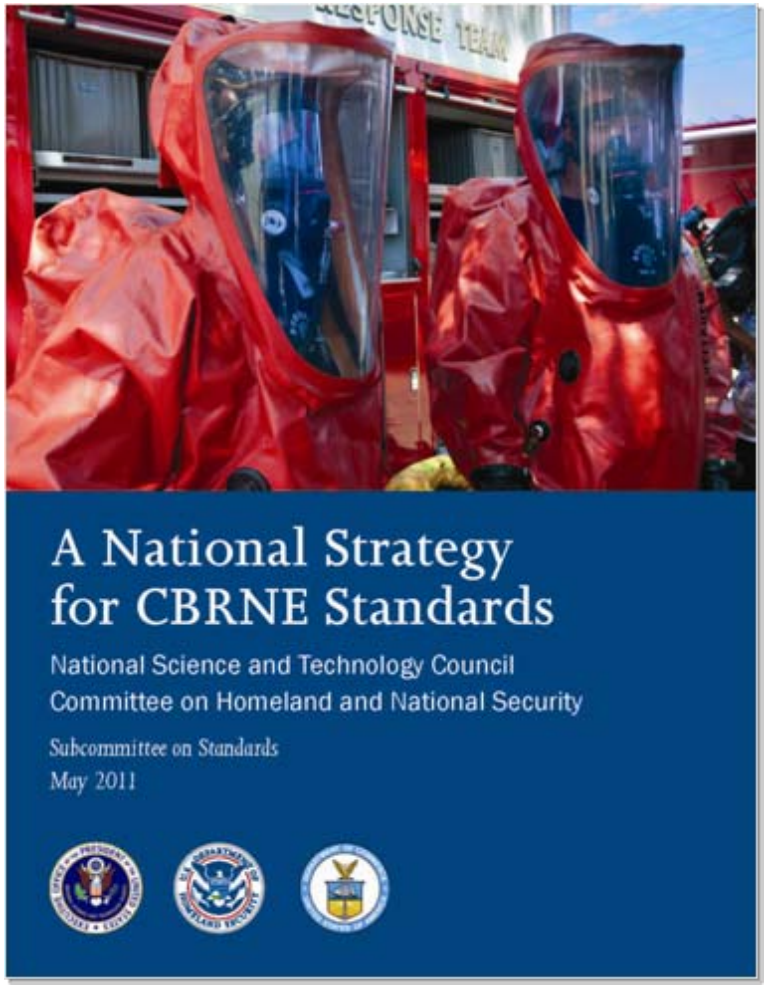
What do you see as the role of DHS in promoting standards for all technologies both within the private sector and in the international community?

"Well, I think we're going to have an ever more important role. I think I would first start with technologies in the department and what the department procures and really looking at **standards**, requirements, operational testing protocols" …

Secretary Janet Napolitano, August 2010

Goals of the National Strategy for CBRNE Standards

- Establish an **interagency group for CBRNE standards** to promote the coordination of such standards among Federal, state, local, and tribal communities
- Coordinate and facilitate the development and adoption of CBRNE **equipment performance standards**
- Coordinate and facilitate the development and adoption of CBRNE equipment **interoperability standards**
- Promote enduring CBRNE **standard operating procedures**
- Establish voluntary CBRNE **training and certification standards** and promote policies that foster their adoption
- Establish a comprehensive CBRNE **equipment testing and evaluation (T&E) infrastructure** and capability to support conformity assessment standards



http://www.whitehouse.gov/blog/2011/08/30/path-emergency-reponse-standards

Charting a Path Forward
Summary

- Threats continue to evolve (cyber, CBRNE, supply chain)
- Robust government/ private sector partnerships are in place to develop standards
- Test methods and conformity assessment programs are still needed in many areas to document that products and processes meet standards
- International harmonization on standards and conformity assessment activities are key to global security