

Department of Homeland Security



American Chemical Society

Science and the Congress Project

June 26, 2003



A Look Back

- September 11
- National Strategy for Homeland Security
 - Framework to mobilize, organize
- Reality of a New Department
 - Centralized leadership; decentralized execution



Homeland Security National Strategic Objectives

- Prevent terrorist attacks within the United States
- Reduce America's vulnerability to terrorism
- Minimize the damage and assist in recovery from terrorist attacks that occur



The Directorate's Objectives - S&T in service to:

- Prevent illicit traffic of radiological and nuclear materials and weapons into and within the United States
- Rapidly detect and mitigate consequences of release of biological and chemical agents
- Detect and prevent illicit high explosives transit into and within the United States
- Enhance missions of all Departmental operational units
- Protect cyber and other critical infrastructures
- Prevent technology surprise and anticipate emerging threats
- Develop, coordinate and implement technical standards for CBRN countermeasures
- Support U.S. leadership in science and technology



Core Capabilities

Programs, Plans and Budgets

Partners with operational end-users to identify requirements; creates portfolios with strategic initiatives to address these requirements, prioritize investments, and ensure both short-term and long-term goals are met in accordance with national policies.

Research and Development

Executes intramural RDT&E programs; supports university and fellowship programs, and provides the nation with an enduring research and development complex dedicated to homeland security

HSARPA

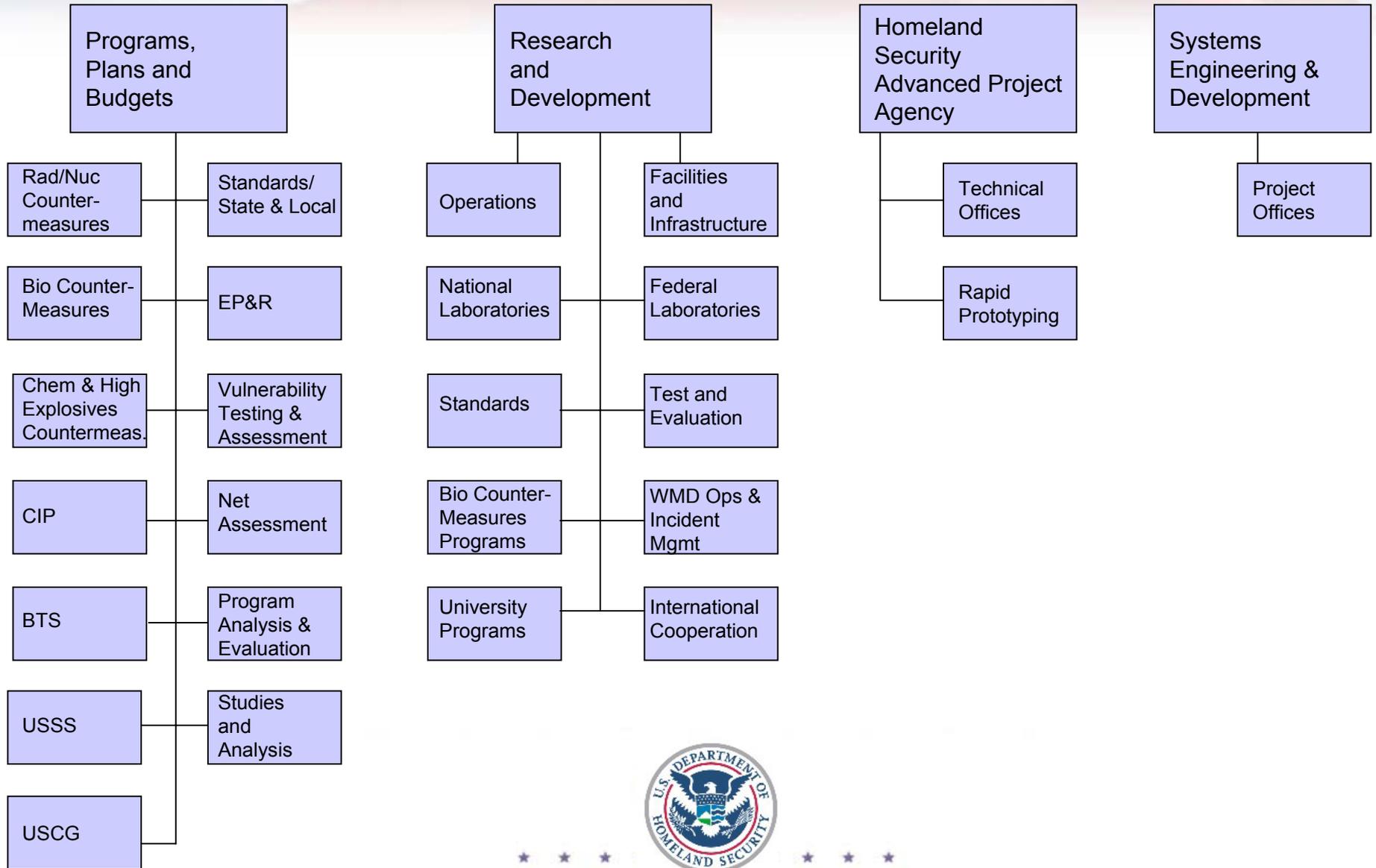
Engages industry, academia, government and other sectors in innovative research and development, rapid prototyping, and technology transfer to meet operational needs

Systems Engineering and Development

Executes the transition of large-scale or pilot systems to the field through a rapid, efficient and disciplined project management process



Under Secretary for Science and Technology



Early Successes

BioCountermeasures

Deployed BioWatch

Rad/Nuc Countermeasures

Evaluation and pilot deployment of radiation detection equipment in cooperation with Port Authority of New York and New Jersey

Emergency Preparedness and Response

Initiated process to develop consistent Federal, state and local emergency responder training standards and certification levels

Standards/State and Local

Issued guidelines for technical performance and testing of radiation detection equipment; initiated contract for standards development for handheld anthrax detector systems; initiated work on development of standards to support interoperable communications

University Programs and Fellowships

Issued call for applications for first class of scholars and fellows; selected first AAAS Homeland Security Fellow

Rapid Prototyping

Issued first Broad Area Announcement for rapid transition of homeland security technologies



ORD's Unique Role: Stewardship

- Provide the nation with an enduring RDT&E capability dedicated to homeland security
- Provide stewardship for the homeland security complex, including people, places and programs; nurture cadre of scientific and technical experts
- Develop and nurture a knowledgeable workforce focused on homeland security; encourage students and faculty to pursue careers in supportive disciplines
- Create an enduring, dedicated, and networked inter-laboratory system to support the DHS mission
- Harness achievements of S&T worldwide in support of homeland security
- Bring scientific and technical expertise to bear in incident preparedness and response



Parting Thought

The most important mission for the Science and Technology Directorate is to develop and deploy cutting-edge technologies and new capabilities, so that the dedicated men and women who serve to secure our homeland can perform their jobs more effectively and efficiently (now and in the future)

Under Secretary McQueary
May 21, 2003

