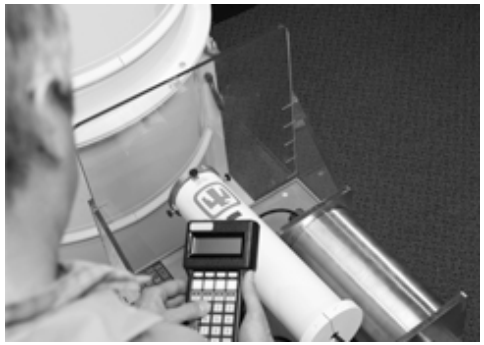
SAND2014-3266C

Exceptional service in the national interest

Sandia National Laboratories



International, Homeland, and Nuclear Security

Program Management Unit

Protecting the nation and the world from the most dangerous events

U.S. DEPARTMENT OF ENERGY | NNSA

Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND2014-3266C
Modified 04/14

Mission and Vision

Mission

- Advancing WMD nonproliferation
  - Supporting the development and implementation of arms control treaties and objectives;
  - Securing and safeguarding WMD materials and facilities;
- Enhancing security of nuclear weapons globally
- Countering, responding to, and recovering from WMD use by terrorists or others;
- Ensuring the resilience of critical U.S. physical and cyber infrastructures; and
- Reducing the risk to our nation from significant national incidents while maintaining and facilitating trade, travel, and personal freedoms.

Vision

Lead the nation in anticipating and reducing the highest-priority risks associated with weapons of mass destruction and catastrophic incidents.

Sponsors and Partners

Sandia National Laboratories

NNSA
National Nuclear Security Administration

Department of Energy

U.S. Department of Homeland Security

Federal Aviation Administration

Department of Defense

Defense Threat Reduction Agency

Department of State

IAEA

Department of Justice

Lawrence Livermore

Department of Health & Human Services - USA

Cal EMA
California Emergency Management Agency

Los Alamos National Laboratory

Headquarters United States European Command

Texas A&M University

IHNS Program Management Unit Directors

Sandia National Laboratories

Global Security
Rodney Wilson

WMD Counterterrorism and Response
Billy Marshall

Homeland Security Programs
Duane Lindner

Cyber and Infrastructure Security
Len Napolitano

Homeland Defense and Force Protection
Dave Corbett

TBD
IHNS Deputy

Jill Hruby
IHNS SMU VP

Sandia National Laboratories

Global Security
Rodney Wilson

- Engineered Security Systems *Holly Dockery*
- Arms Control, Nonproliferation and Nuclear Security *Pablo Garcia*
- Cooperative Threat Reduction *Ren Salerno*

Key Customers: DOE (NNSA), DOS, DOD (DTRA)

WMD Counterterrorism and Response
Billy Marshall

- Airworthiness and Infrastructure Assurance *Bob Mata*
- Nuclear Incidence Response *Brad Parks*
- Nuclear Counter Terrorism *Billy Marshall*
- CBRNE Technology Development *Brad Parks*

Key Customers: DOE (NNSA), DOD, FAA, FBI

Homeland Security Programs
Duane Lindner

- Chem-Bio National Security *Paula Imbro*
- Nuclear & Radiological Security *Heidi Ammerlahn*
- Weapons Remediation *Jim Lund*
- Aviation & Explosives Security *Wen Hsu*
- Disaster Management & Resilience *Richard Griffith*
- Borders & Maritime Security *Holly Dockery*
- Homeland Security Policy & Initiatives *Nate Gleason*

Key Customers: DHS (S&T, CBP, FEMA, DNDO, TSA, USCG, USSS, OHA, Policy), DHHS (NIH), DOD (Army, DTRA, DARPA)

Cyber and Infrastructure Security
Len Napolitano

- Cyber *Bob Hutchinson*
- Resilient Infrastructure Systems *Bill Rhodes*

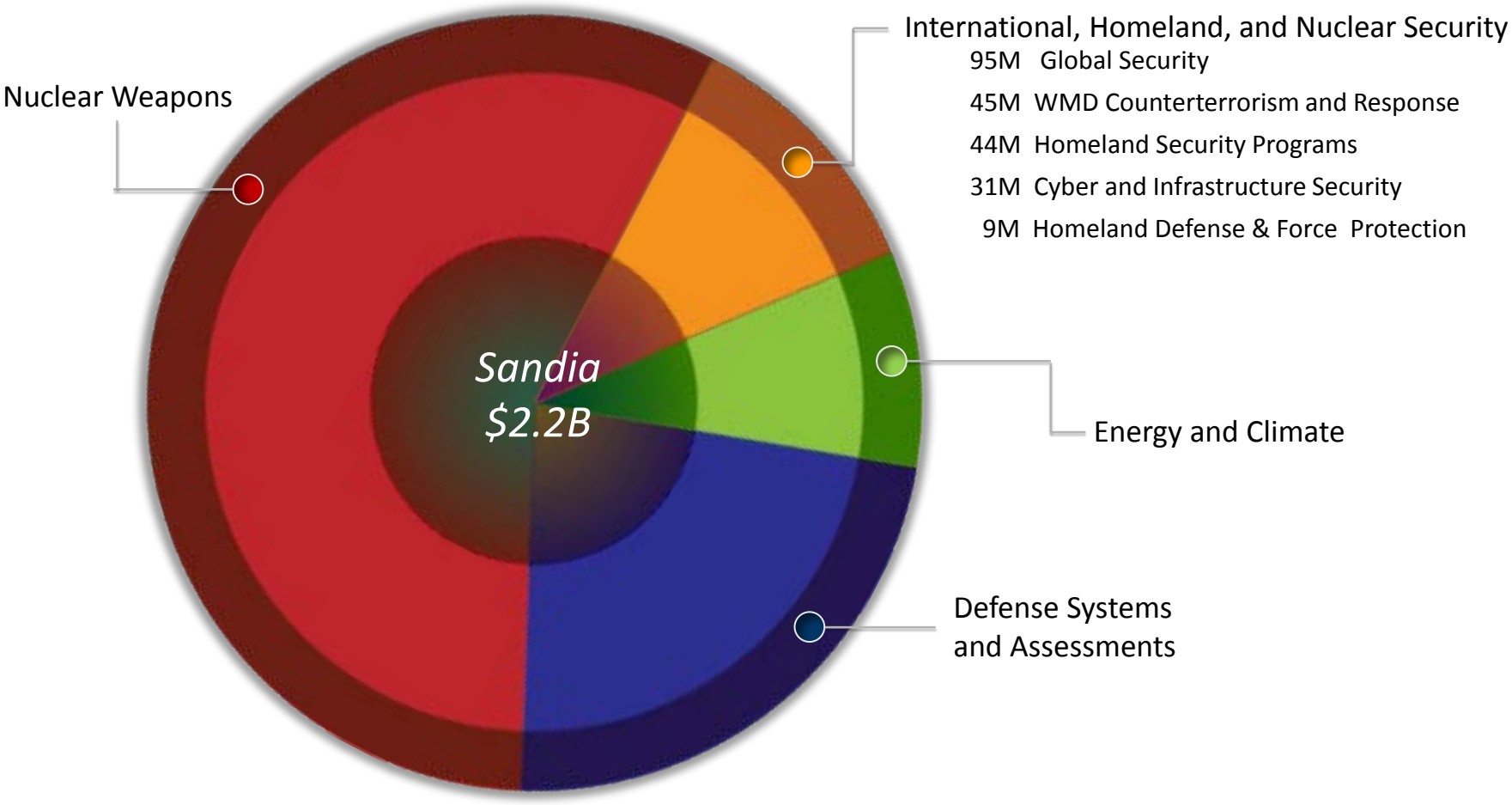
Key Customers: DHS (NPPD, S&T)

Homeland Defense & Force Protection
David Corbett

- Air Force Nuclear Security Engineering *Randy Peterson*
- DOE/NNSA Nuclear Security Engineering *Randy Peterson*
- Navy Nuclear Security Engineering *Jennifer Nelson*
- Technologies and Systems For Emerging Threats *Phil Heermann*

Key Customers: DOD (Air Force, Navy, Army, DTRA, DARPA, COCOMs), DOE (NNSA), Industry

FY14 Projected Revenue



totals from February 2014 projection call

International, Homeland, and Nuclear Security

Sandia National Laboratories

Program Areas

- Global Security
- WMD Counterterrorism and Response
- Homeland Security
- Cyber and Infrastructure Security
- Homeland Defense and Force Protection

Capabilities

- *Nuclear, radiological, biological, explosives, and chemical science and engineering*
- *System analysis, engineering, and integration*
- *Physical and cyber security methods, technologies, and systems*
- *Predictive modeling and simulation of interdependent systems*
- *Decontamination and restoration approaches and technologies*
- *International security technologies and policy*



Global Security and Cooperation

We reduce proliferation and terrorism threats to U.S. national security through global technical engagement.

- Enhance security of nuclear weapons stockpiles and weapons-usable nuclear material in countries of concern and the ability to detect illicit trafficking of those materials at international border crossings including airports, seaports and other points of entry/exit
- Provide technical support to US government policy makers for arms control and international agreements
- Develop sustainable technologies for international biorisk management, and create capacities within nations to prevent the misuse of biological and chemical materials
- Develop and deliver innovative and sustainable technologies to protect at-risk WMD-usable nuclear and radiological materials worldwide from theft and sabotage

Engineered Security Systems

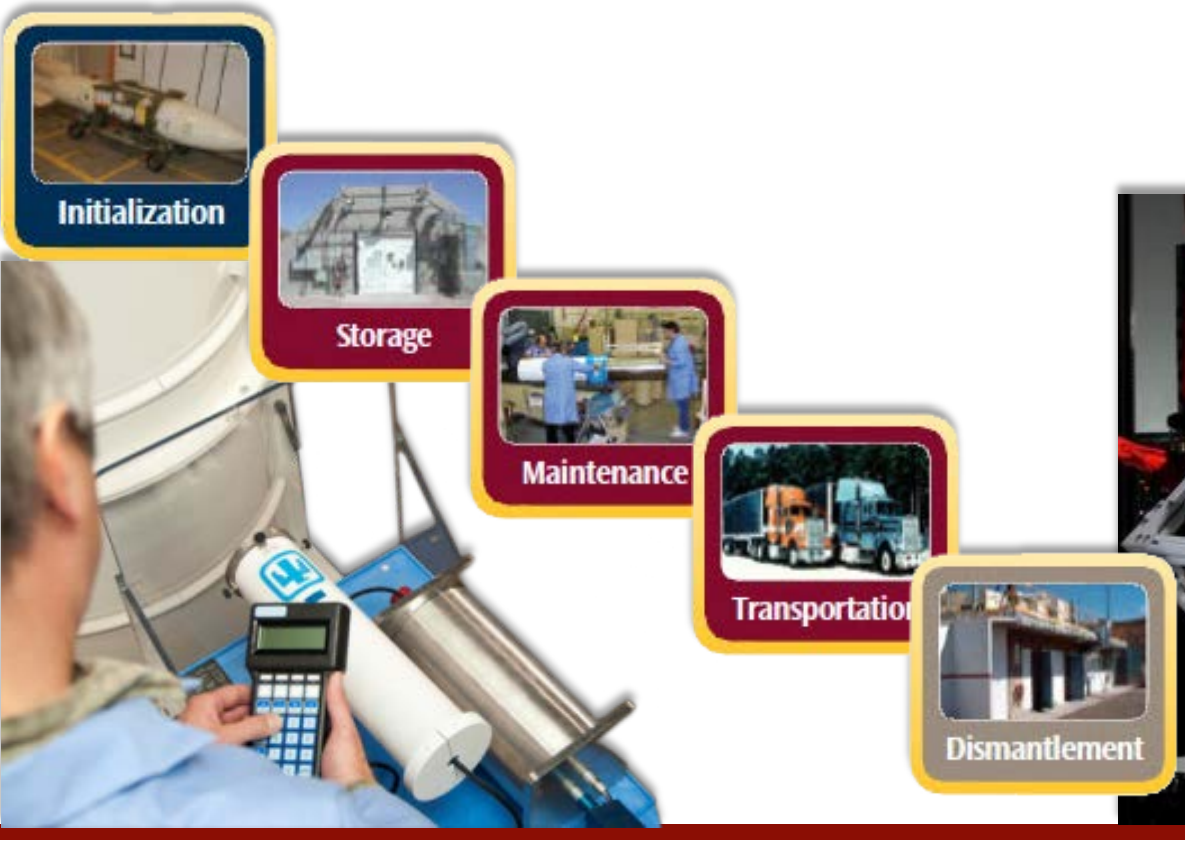
Arms Control, Nonproliferation and Nuclear Security

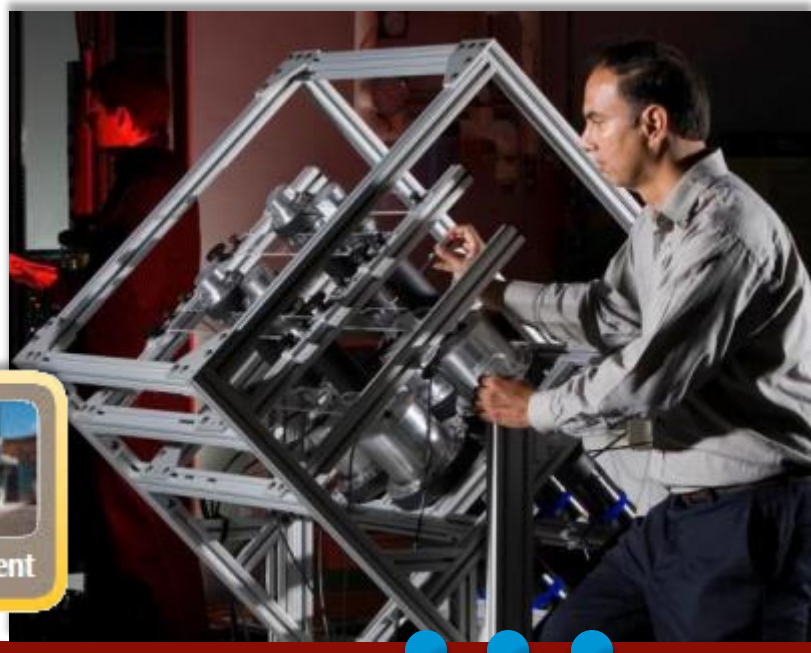
Cooperative Threat Reduction (CTR)

Global Security and Cooperation

We are committed to…

- Developing partnerships to build a global capacity to prevent the misuse of nuclear, chemical, biological and radiological materials
- Providing systems and technologies that both inform and implement national security policy





WMD Counterterrorism and Response

We work to counter terrorist threats, reduce the risk of disasters, and respond to dangerous events.

- Provide operational planning assistance and training to counter domestic and international nuclear and radiological terrorism.
- Conduct specialized training for nuclear and explosive threats for warfighters and law enforcement.
- Develop and assess technologies for evaluating airframe and other critical structural integrity.

Nuclear Incidence Response

Nuclear Counter Terrorism

Chemical, Biological, Radiological, Nuclear and Explosives Technology Development

Airworthiness and Infrastructure Assurance

WMD Counterterrorism and Response

We are committed to…

- Expanding specialized training centers for nuclear and explosive threats for the DoD and law enforcement communities
- Providing broader support to ensure public aviation safety and security across the enterprise

Homeland Security Programs

Sandia National Laboratories

We reduce the risk to our nation of terrorist threats and significant natural incidents through technical leadership, unbiased expertise, mission-focused R&D, and delivery of engineered solutions.

- Perform research & development and systems studies in major threat areas including nuclear, radiological, biological and explosives
- Create tools to support emergency management training and operations
- Create capabilities for chemical weapons remediation
- Conduct large-scale operations support and systems analysis for border security
- Conduct testing and evaluation for technologies to be deployed in operational environments
- Develop and transition advanced chemical, biological, and radiological detection systems
- Develop approaches to assess and improve resilience

Chem Bio National Security

Aviation and Explosives Security

Weapons Remediation

Nuclear and Radiological

Borders and Maritime Security

Disaster Management and Resilience

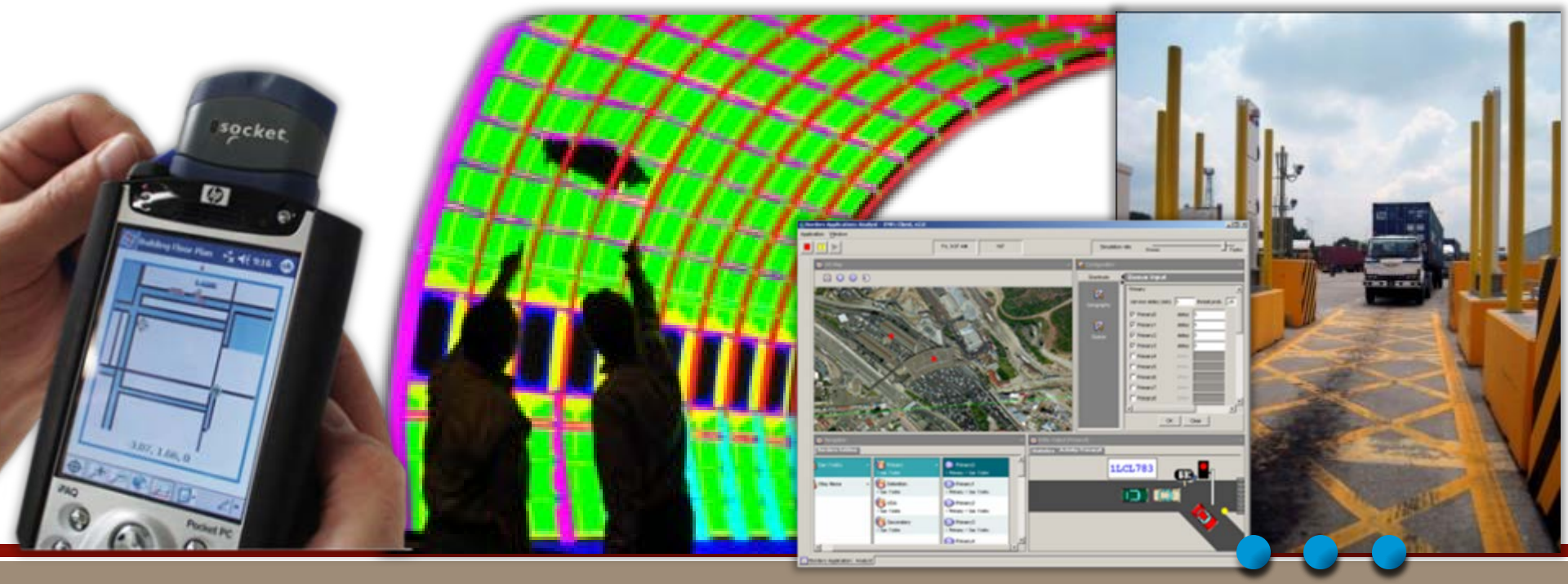
Policy and Initiatives

Homeland Security Programs

We are committed to…

Sandia National Laboratories

- Helping operational customers address complex and rapidly evolving technical problems as an honest broker
- Providing needed science and technology solutions in major threat areas
- Expanding support to national policy development



Cyber and Infrastructure Security

We develop and apply technologies and analytical approaches to secure the nation's critical infrastructure against natural or malicious disruption.

- Conduct large-scale analyses that increase our understanding of US and key global infrastructure interdependencies, coupled with real-time analyses that use the large-scale data to increase system resilience.
- Assess physical and cyber infrastructure risks under a common risk-management framework.
- Develop infrastructure and cyber solutions that advance security and resiliency.

Cyber

Resilient Infrastructure Systems

Cyber and Infrastructure Security

We are committed to …

- Working with US government agencies to ensure the integrity and availability of the nation's cyber infrastructure.
- Enhancing preparedness, protection, response, recovery, and mitigation.
- Understanding the linked, interdependent nature of the nation's critical infrastructures.
- Facilitating wide spread commercialization/adoption of laboratory technologies by the private sector.

Homeland Defense & Force Protection

Sandia National Laboratories

Providing technology and systems solutions to confront continually changing threats to critical DOE and DoD assets and missions from intruders, radiological, nuclear and other combined threats.

- Design, develop, test, and implement physical security technologies and systems to protect nuclear weapons and other high value assets, facilities and systems
- Develop and apply innovative technologies to address emerging threats and respond to incidents and accidents impacting national security

Air Force and Navy Nuclear Security Engineering

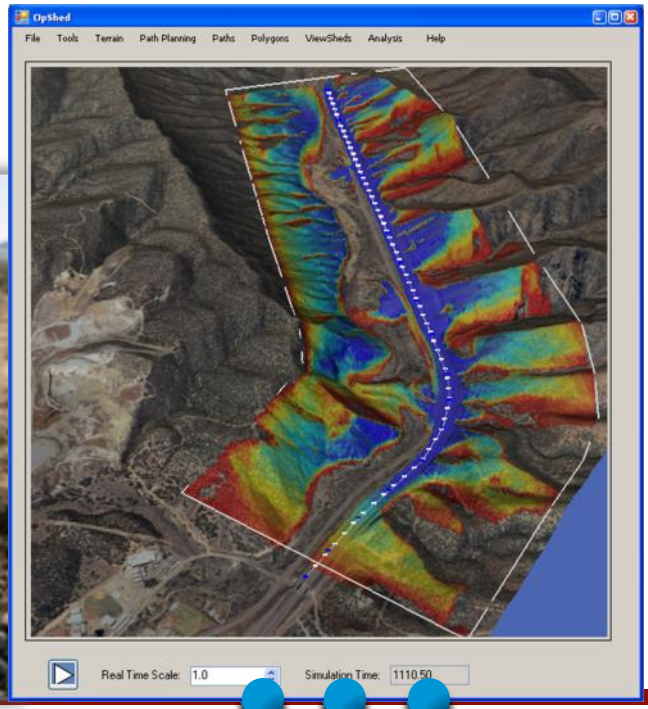
DOE/NNSA Nuclear Security Engineering

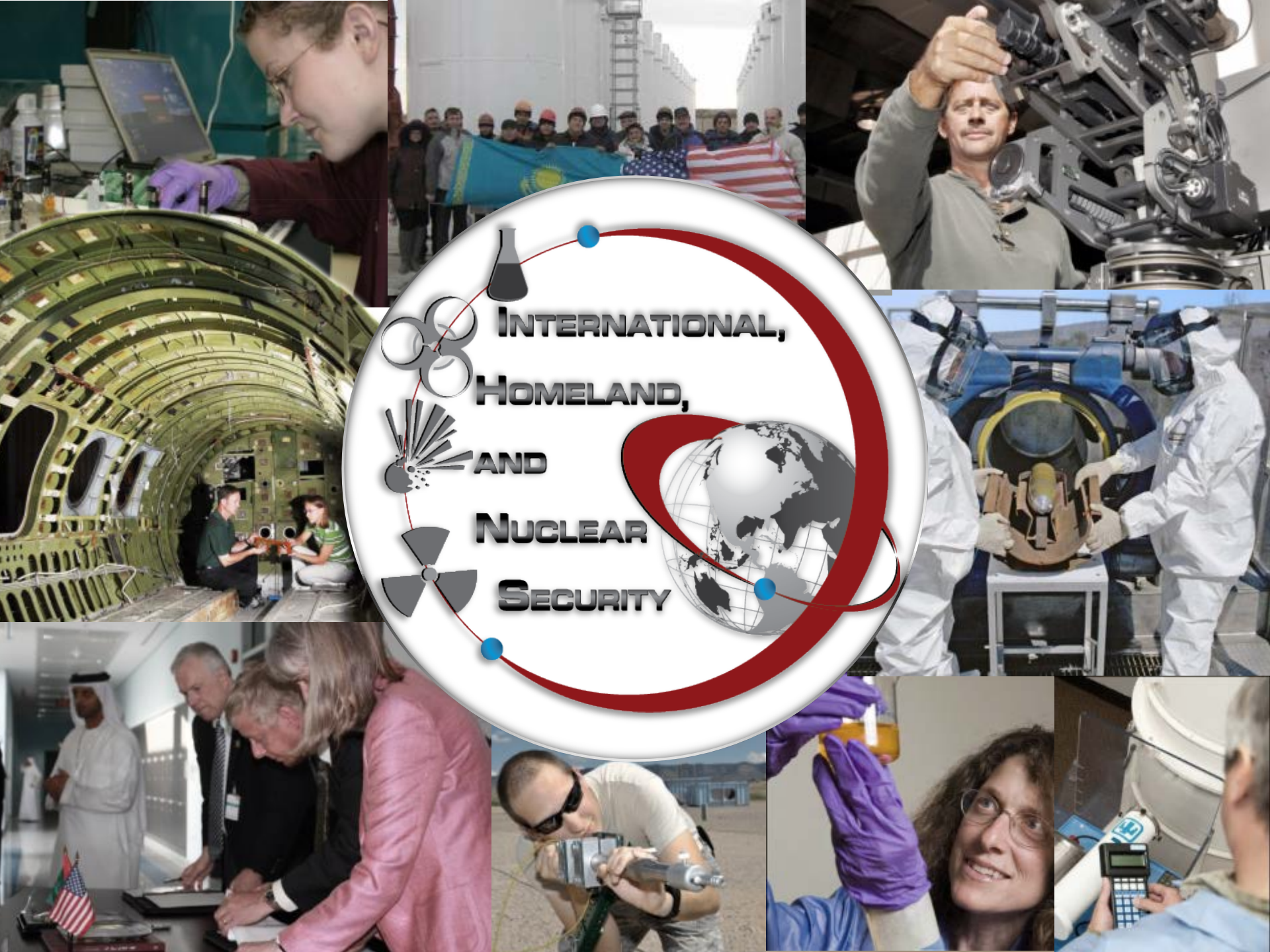
Technologies and Systems for Emerging Threats

Homeland Defense and Force Protection

We are committed to…

- Providing a Center of Excellence for Physical Security to support the DOE and DoD in ensuring the security of the Nation's nuclear arsenal and special nuclear materials
- Creating effective internal and external partnerships to provide systems and technologies to address current and emerging future threats to the homeland




INTERNATIONAL,
HOMELAND,
AND
NUCLEAR
SECURITY