### Department of Homeland Security Science and Technology Directorate Cyber Security Division

Ann Cox Ph.D. IMAM Program Manager

February 11, 2016





Science and Technology



The Office of the National Coordinator for Health Information Technology





























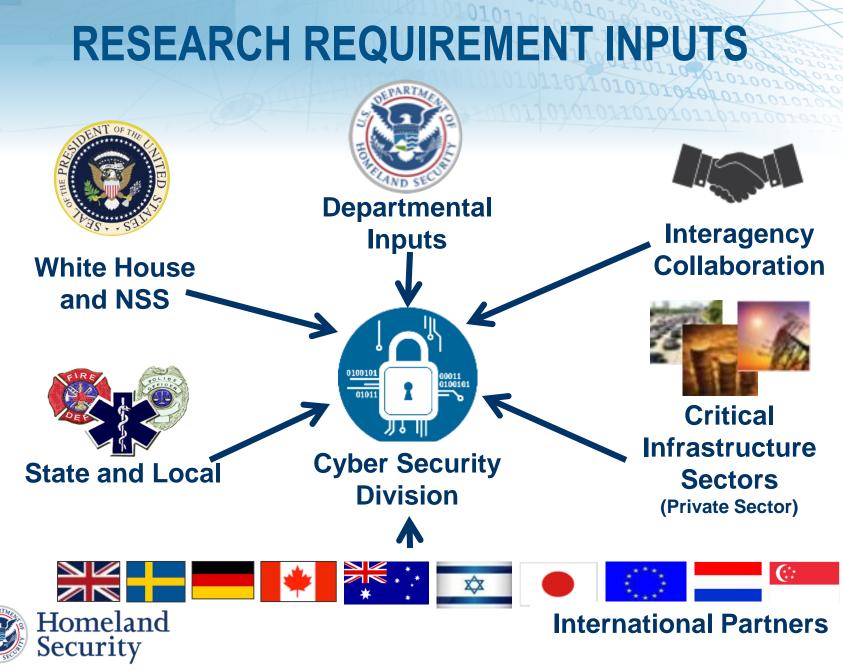






### The Broad Homeland Security Enterprise







Science and Technology

## CSD Mission & Strategy

#### REQUIREMENTS



#### **CSD MISSION**

- Develop and deliver new technologies, tools and techniques to defend and secure current and future systems and networks
- Conduct and support <u>technology transition</u> efforts
- Provide <u>R&D leadership and coordination</u> within the government, academia, private sector and international cybersecurity community

#### **CSD STRATEGY Network & Trustworthy Cybersecurity Transition and System Cyber Physical** Cyber Research Security and Outreach **Systems** Infrastructure Infrastructure Investigations **Outreach Methods (Sampling) Stakeholders** Social Media **Technology Demonstrations** Government **IT Security Companies** Venture Capital Media Outreach **Open Source Speaking Engagements** International **Program Reviews**



Science and Technology

# The Future at DHS S&T

S&T'S **VISIONARY** GOALS

- Screening at Speed: Security that Matches the Pace of Life
- A Trusted Cyber Future: Protecting Privacy, Commerce and Community
  - In a future of increasing cyber connections, underlying digital infrastructure will be self-detecting, self-protecting and self-healing. Users will trust that information is protected, illegal use is deterred, and privacy is not compromised. Security will operate seamlessly in the background.
- Enable the Decision Maker: Actionable Information at the Speed of Thought
- Responder of the Future: Protected, Connected, and Fully Aware
- Resilient Communities: Disaster-Proofing Society



# 2013/2014 Requirements

- 39 Priority Areas with 320+ Focus Areas
- Cybersecurity Research Infrastructure
- Software Assurance
- Network Security
- Mobile, Web, and Cloud Security
- Identity Management and Privacy
- Usability and Metrics
- Cyber Security Education and Training
- Comprehensive National Cybersecurity Initiative (CNCI)
- Securing Critical Infrastructure
- Law Enforcement Needs



### References

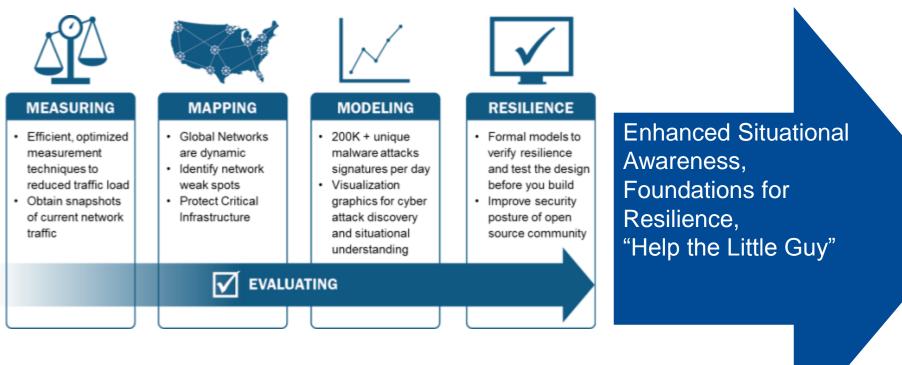
- Cyber Security Division website:
  - http://www.dhs.gov/science-and-technology/csd-resources
- Updated NITRD web site:
  - https://www.nitrd.gov/cybersecurity/
- Science and Technology Directorate Strategic Plan:
  - http://www.dhs.gov/science-and-technology/st-strategicplan



Science and Technology







Ann Cox, Ph.D. IMAM Program Manager Cyber Security Division Homeland Security Advanced Research Projects Agency (HSARPA) <u>ann.cox@dhs.gov</u>



# For more information, visit http://www.dhs.gov/cyber-research

