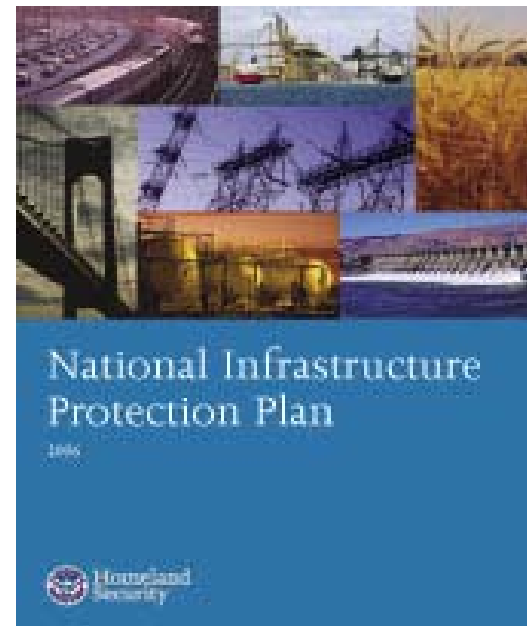


# Implementation of the National Infrastructure Protection Plan and the Sector-Specific Plans

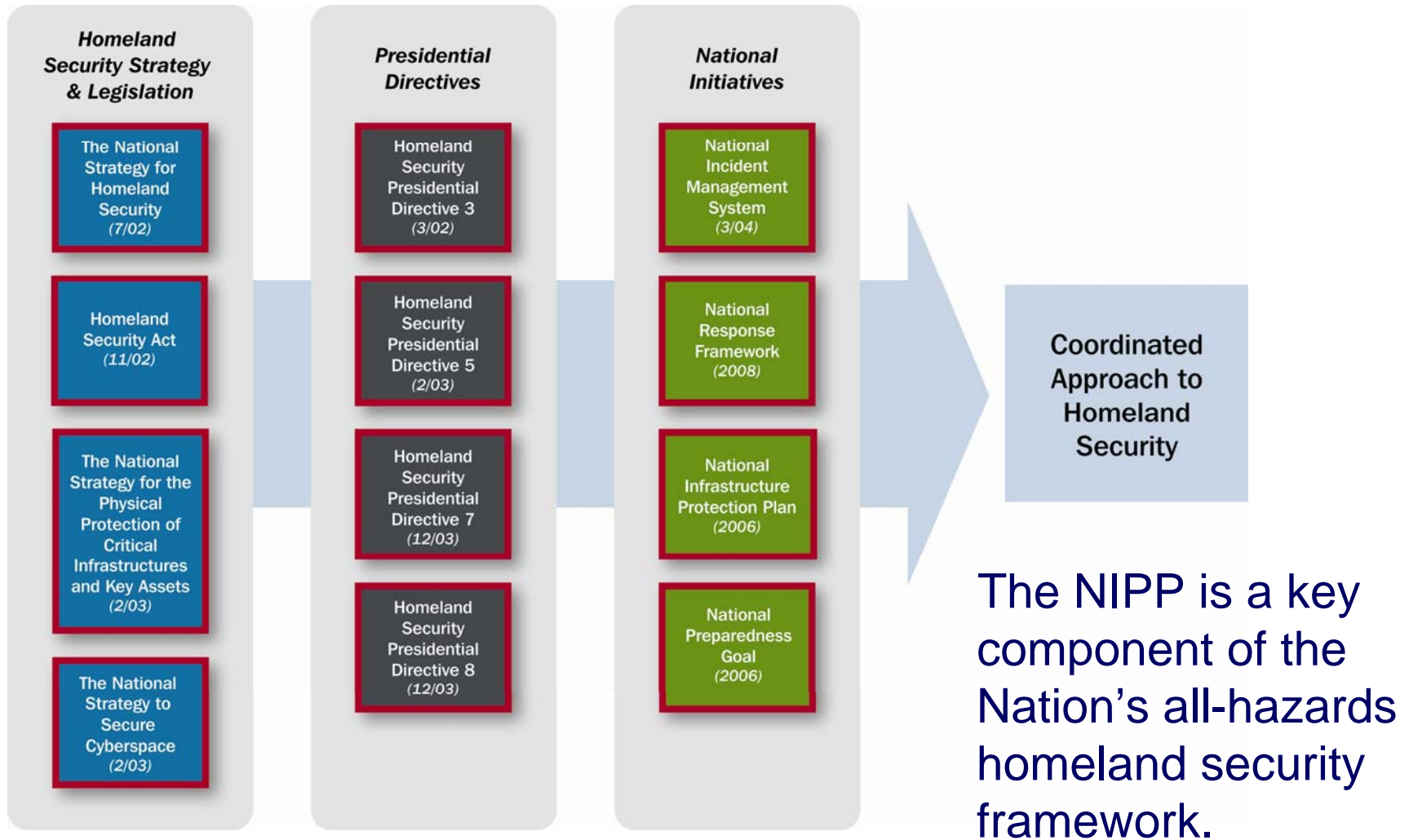
## *Current Highlights and Future Directions*

Charles H. Davis, Director, NIPP PMO  
Lisa M. Bendixen, ICF International



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# Homeland Security Strategic Framework



# NIPP Goal

*Build a safer, more secure, and more resilient America by*

- *enhancing protection of the Nation's critical infrastructure and key resources (CIKR) to prevent, deter, neutralize, or mitigate the effects of deliberate efforts by terrorists to destroy, incapacitate, or exploit them; and*
- *strengthening national preparedness, timely response, and rapid recovery in the event of an attack, natural disaster, or other emergency.*



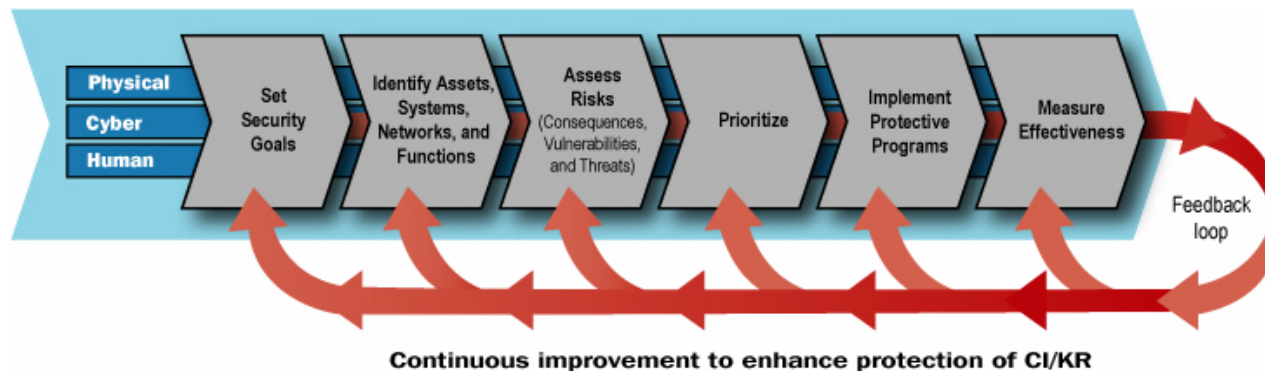
# What is in the NIPP?

- A comprehensive risk management framework
- CIKR protection roles and responsibilities for
  - DHS
  - Sector-Specific Agencies
  - Other Federal, State, local, tribal, and territorial security partners
  - Private-sector security partners
- A coordinated approach for establishing national priorities, goals, and requirements

# NIPP Risk Management Framework

The NIPP describes processes to:

- Set Security Goals
- Identify Assets, Systems, Networks, and Functions
- Assess Risk (Consequences, Vulnerabilities, and Threats)
- Prioritize
- Implement Protective Programs
- Measure Effectiveness



# Security Partner Roles

- **Sector-Specific Agencies (SSAs):** Implementation of the NIPP and guidance for development of Sector-Specific Plans (SSPs)
- **Other Federal Departments, Agencies, and Offices:** Implementation of specific roles designated in HSPD-7 or other relevant statutes and executive orders
- **State, Territorial, Local, and Tribal Governments:** Development and implementation of a CIKR protection program as a component of their overarching homeland security program
- **Private-Sector Asset Owners and Operators:** CIKR protection, coordination, and cooperation



# Designated Sectors and Lead Agencies

DHS is responsible for coordinating the overall national effort to enhance protection of CIKR across sectors

An 18<sup>th</sup> sector has been designated to address critical manufacturing

Sector-Specific Agency	Critical Infrastructure/Key Resources Sector
Department of Agriculture Department of Health and Human Services	Agriculture and Food
Department of Defense	Defense Industrial Base
Department of Energy	Energy
Department of Health and Human Services	Public Health and Healthcare
Department of the Interior	National Monuments and Icons
Department of the Treasury	Banking and Finance
Environmental Protection Agency	Water
Department of Homeland Security <i>Office of Infrastructure Protection</i>	Chemical Commercial Facilities Dams Emergency Services Nuclear Reactors, Materials, and Waste
<i>Office of Cyber Security and Telecommunications</i>	Information Technology Communications
<i>Transportation Security Administration</i>	Postal and Shipping
<i>Transportation Security Administration, United States Coast Guard</i>	Transportation Systems
<i>Immigration and Customs Enforcement, Federal Protective Service</i>	Government Facilities



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# Sector-Specific Plans



- Tailor application of the NIPP risk management framework to each of the 17 CIKR sectors
  - Details of risk approaches not typically included in the SSP
- Address the unique characteristics and risk landscapes of each sector
- Developed in coordination with security partners
- SSPs were approved by DHS as part of a national roll-out event on May 21, 2007
- Sectors are providing brief updates this year and will start rewriting next year



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# NIPP Implementation Status - Highlights

- Established 15 Sector Coordinating Councils and 17 Government Coordinating Councils
- Formed and/or forming cross-sector working groups for cross-sector coordination and to address dependencies/interdependencies issues (e.g., R&D, cyber security)
- Created State, Local, Tribal, and Territorial Government Coordinating Council
- Drafting framework, guidelines, and policy to regionalize the NIPP
- Sectors are working with DHS during daily operations/emergencies through the National Infrastructure Coordination Center
- DHS and SSAs sponsor sector threat briefings and related information products, which include relevant intelligence, threat and risk analysis, and real-time incident reporting



# NIPP Implementation Status - Highlights

- Developed 17 Sector-Specific Plans and Sector CIKR Protection Annual Reports, identifying sector-level goals, objectives, and implementing activities
- Developed security regulations to protect chemical facilities from attack and against theft
- Leveraged NIPP partnership model to identify CIKR located outside the US that represent key public health/safety issues as well as key economic/national security issues
- Established NIPP in action program to document and share effective practices
- Established NIPP Channel on DHS Lessons Learned Information Sharing Portal
- Leveraging DHS S&T university program to develop relevant CIKR curriculum



# NIPP Implementation Status - Highlights

- Rolled-out C/ACAMS to 20 States to facilitate collection and management of CIP information by State and local CIP planners, first responders, and emergency managers
- Streamlining National Asset Database to disseminate infrastructure data from a variety of relevant sources quickly and efficiently
- Completed 25 Sector and Sub-Sector Risk assessments, National Terrorism Risk Profile, National State Terrorism Risk Profile, and individual threat assessments for all U.S. States and territories
- Initiated Risk assessment of metro areas with concentrated CIKR (i.e., Lower Manhattan Security Initiative, D.C. Metroplex Initiative)
- Developed and used HITRAC National Risk Profile to identify high risks to CIKR and inform Federal CIP spending priorities
- Working with owners/operators to focus on resilience as well as security of essential sector functions



# NIPP Implementation Status - Highlights

- Since 2004, PSAs have conducted 18,000 outreach visits and, since 2007, conducted 227 Enhanced Critical Infrastructure Protection Initiative visits to Tier 1/2 CIKR
- Led technical assistance visits and provided more than \$225 million in Buffer Zone Protection Program grants to local law enforcement to enhance security at high-risk sites
- Establishing common set of standards for private sector preparedness relating to disaster management, emergency management, and business continuity
- Working with SLTT partners to develop guidelines for CIKR emergency and security planning
- Developed National CIKR Protection Annual Report, 17 Sector CIKR Protection Annual Reports
- Collected Core Metrics that measured progress of national implementation of CIKR protection framework



# 2009 NIPP Revision and Reissue

**Broadly circulate invitation and comment matrix to solicit comments and suggested edits (detailed and strategic) for the triennial revision of the NIPP**  
*(May 2008)*



- **Revise NIPP to reflect comments received**
  - **Incorporate latest National Annual Report priorities**
  - **Conduct internal reviews**
  - **Conduct external (public) reviews**
  - **Incorporate revisions**
  - **Obtain approvals**
- (2008-2009)*



**Reissue and reprint NIPP**  
*(2009)*

- The NIPP responds to an evolving risk landscape; there will always be changes—from relatively minor to more significant
- The NIPP calls for an annual review and a triennial revision (2006, 2009)
- The triennial revision involves broad-based input, including two formal rounds of public input or review



# The Importance of Risk Management to the NIPP



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# Risk Management Framework

- Applicable to the general threat environment, sector-specific threats, and/or incidents
- Structured to promote consistency and continuous improvement in the enhancement of CI/KR protection
- Tailored and applied on an asset, system, network, or function basis



**P R O T E C T I O N**

**MANAGE RISKS**

**Deter  
Threats**

**Mitigate  
Vulnerabilities**

**Minimize  
Consequences**



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# Interdependencies Among CIKR Influence all Components of Risk

- ***Threat:*** Innovative targeting to exploit interdependencies
- ***Vulnerability:*** Expanded set of vulnerabilities due to interdependencies
- ***Consequences:*** Cascading impacts across multiple CIKR



# Risk Management Responsibilities: DHS

- Supports risk management efforts by providing guidance, tools, and analytical support to Sector-Specific Agencies and other security partners
- Manages cross-sector risk analysis in collaboration with other security partners
- Works with security partners to identify and share threat information, lessons learned, and effective security practices

# Risk Management Responsibilities: SSAs

- Develop and implement Sector-Specific Plans with their security partners
- Foster communication with security partners
- Coordinate sector-wide risk management activities
- Prioritize sector risks and needs, in conjunction with security partners



# Risk Management Initiatives

- DHS' risk lexicon project is looking at risk-related terms throughout DHS
  - A group of core terms are being looked at on an accelerated schedule to reduce the likelihood that the DHS risk lexicon project and the re-issuance of the NIPP will contradict each other



# Risk Management Initiatives

- Engaging the larger risk management community through expert panels
  - In 2007, a series of expert panels identified and evaluated risk assessment methods used by the sectors that potentially meet the requirements of the NIPP Baseline Criteria
  - In 2008, an expert panel reviewed proposed changes to the NIPP Baseline Criteria and discussed ways to enhance information exchange and engagement with the risk management community



# Risk Management Initiatives

Risk tools are being developed by DHS as well as the sectors, such as

- Vulnerability Identification Self-Assessment Tool (ViSAT) for the Commercial Facilities Sector
- Risk Assessment Methodology – Water (RAM-W)
- Food and Agriculture Sector Criticality and Assessment Tool (FASCAT)
- Top screen development for Dams, voluntary Chemical Sector, and Public Health Sector.
- Pilot of the CIKR Common Risk Model across all sectors
- Model for quantitative vulnerability assessment of process control systems



# Providing Resources for the CIKR Protection Program

*Resources must be directed to areas of greatest priority to enable effective management of risk*

The NIPP resource allocation process describes how:

- The integrated risk-based approach will be used to determine prioritization and funding for CIKR protection programs
- State and local-level CIKR protection efforts will be supported through DHS and other grant programs
- Federal funding and grant programs, coupled with appropriate incentives, will support collaboration among security partners to enhance CIKR protection



# National CIKR Protection Annual Report

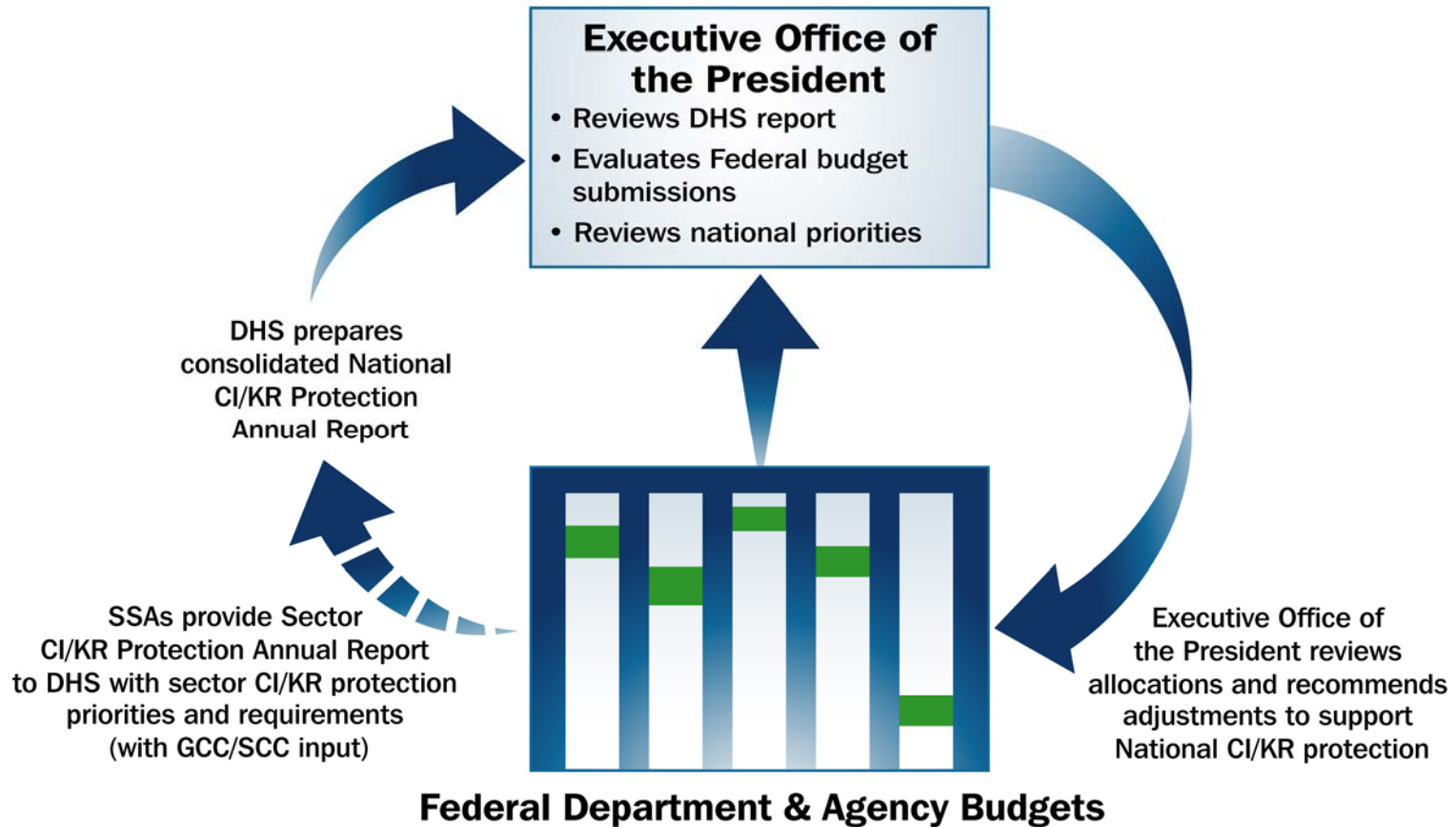


- Presents a high-level summary of the national CIKR protection posture across all sectors
- Developed with inputs from and coordination across DHS, the 17 CIKR sectors, and State and local security partners
- Establishes a framework for evaluating existing cross-sector and sector-specific CIKR priorities and protective programs and informs future risk-based resource allocation



# Providing Resources for CI/KR Protection

## National CI/KR Protection Annual Report



■ Represents the CI/KR Protection element of each Federal department and agency budget



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# Results of Integrated Risk-Based Resource Allocation Approach

- Support CIKR investment decisions for programs and activities conducted by DHS, the SSAs, and other Federal entities through the Federal appropriations process
- Focus Federal grants to support national CIKR protection efforts conducted at the State, local, tribal, and Territorial levels
- Foster coordination with sector security partners, through the Sector and Government Coordinating Councils to determine sector priorities, program requirements, and resources needed for CIKR protection



# For More Information

[NIPP@dhs.gov](mailto:NIPP@dhs.gov)



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