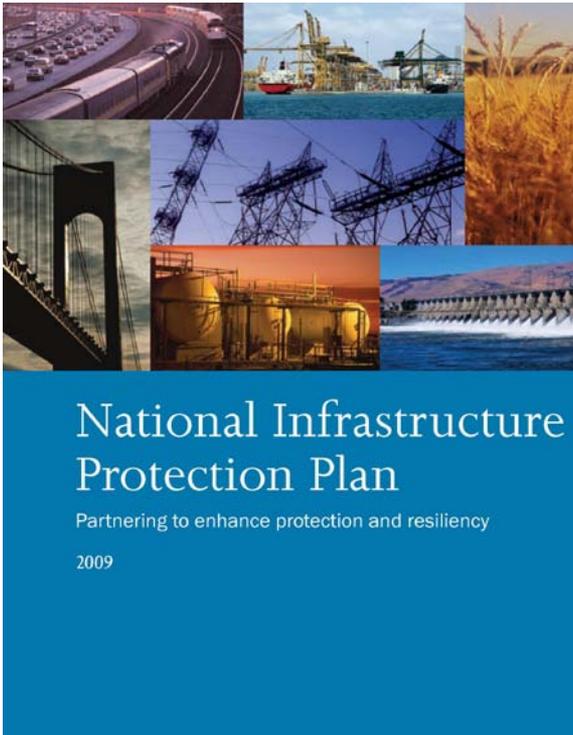


# National Infrastructure Protection Plan (NIPP)



## *Impact on Protection & Resiliency*

Merrick E Krause

Office of Infrastructure Protection

18 Mar 09

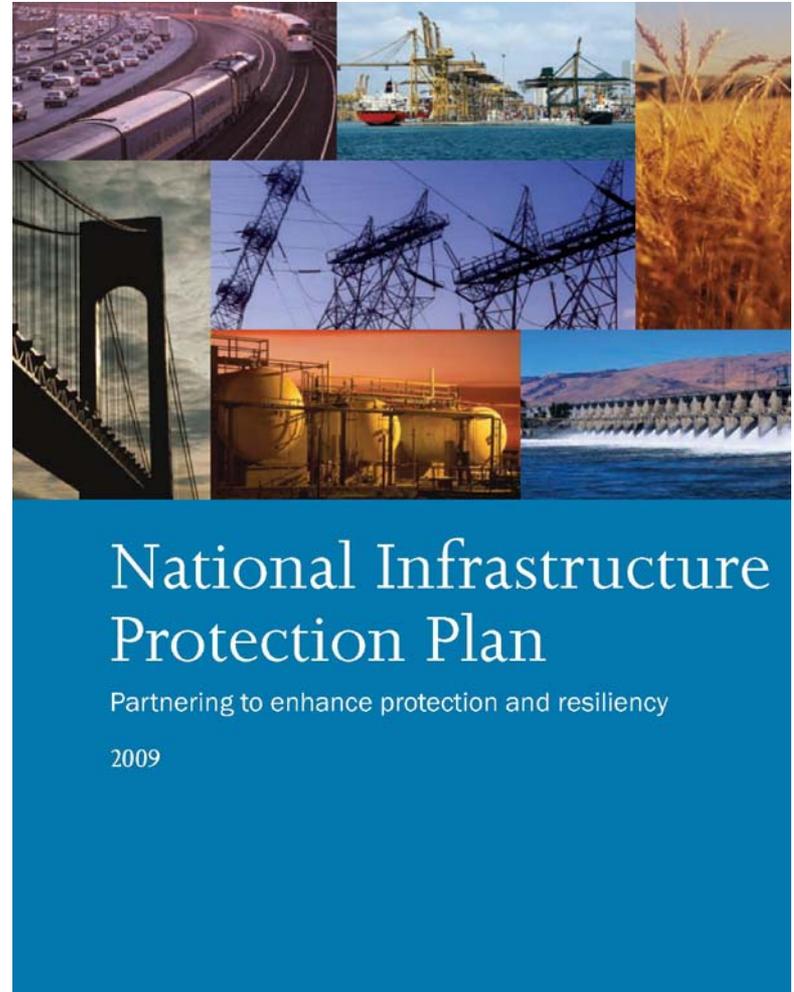
# National Infrastructure Protection Plan

## *Strategic Context for Infrastructure Protection & Resiliency Planning*

- Dynamic threat environment
  - Natural Disasters
  - Terrorists
  - Accidents
  - Cyber Attacks
- “All Hazards” – natural & manmade incidents
- Complex problem requiring a National plan & framework
  - 18 Sectors, from asset-focused to systems to networks
  - Outside regulatory space
  - Vast majority privately owned
  - Nearly all are within State and local jurisdictions
- Updated early 2009 based on inputs & lessons since 2006

# National Infrastructure Protection Plan

- Comprehensive plan & unifying structure for government and private sector to improve protection and resiliency of CIKR
- Steady-state risk management and incident management framework
- Drives IP's activities and guides
  - Other Federal agencies and departments
  - State, local, tribal, and territorial governments
  - CIKR owners and operators



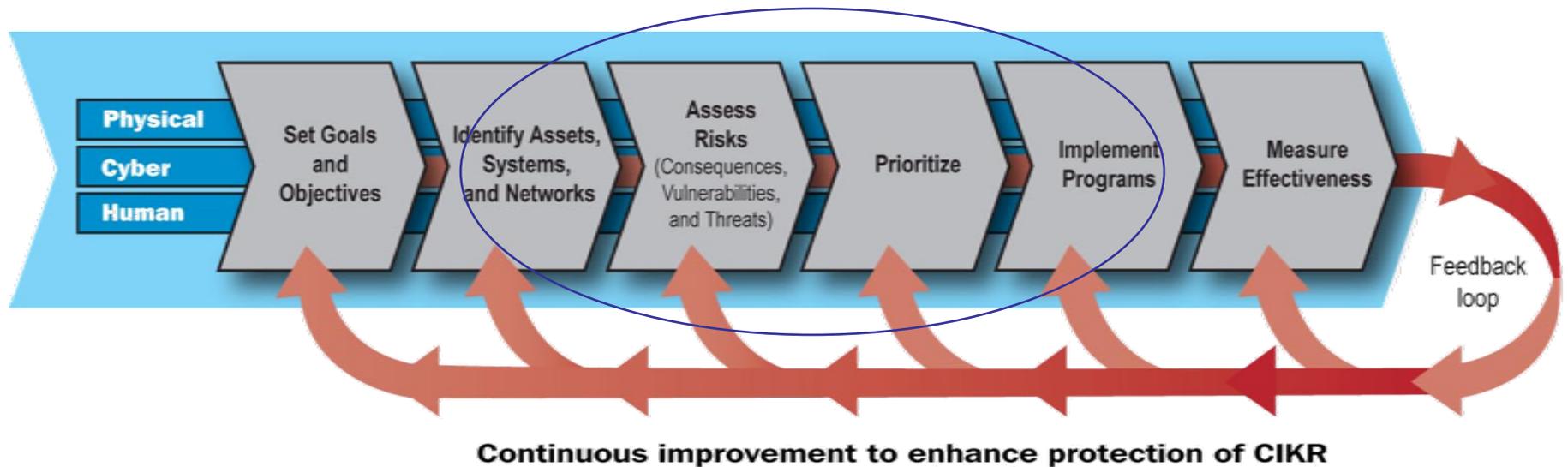
# 18 Sectors & Sector-Specific Agencies

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	Healthcare and Public Health
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 Critical Manufacturing Dams Emergency Services Nuclear Reactors, Materials, and Waste
<i>Office of Cybersecurity and Communications</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

- Roles & responsibilities – since terrorist attacks & certain natural disasters have a National-level impact, it's incumbent upon the Federal Government to provide leadership and coordination
- DHS coordinates the overall national effort to enhance CIKR protection and resiliency through the implementation of the NIPP
- Sector-Specific Agencies (SSA) lead activities in each of 18 CIKR Sectors and develop and implement Sector-Specific Plans (SSPs)

# Risk Management Framework

- The NIPP describes processes to
  - Set Goals and Objectives
  - Identify Assets, Systems, and Networks
  - Assess Risk (Consequences, Vulnerabilities, and Threats)
  - Prioritize
  - Implement Protective Programs & Resiliency Strategies
  - Measure Effectiveness



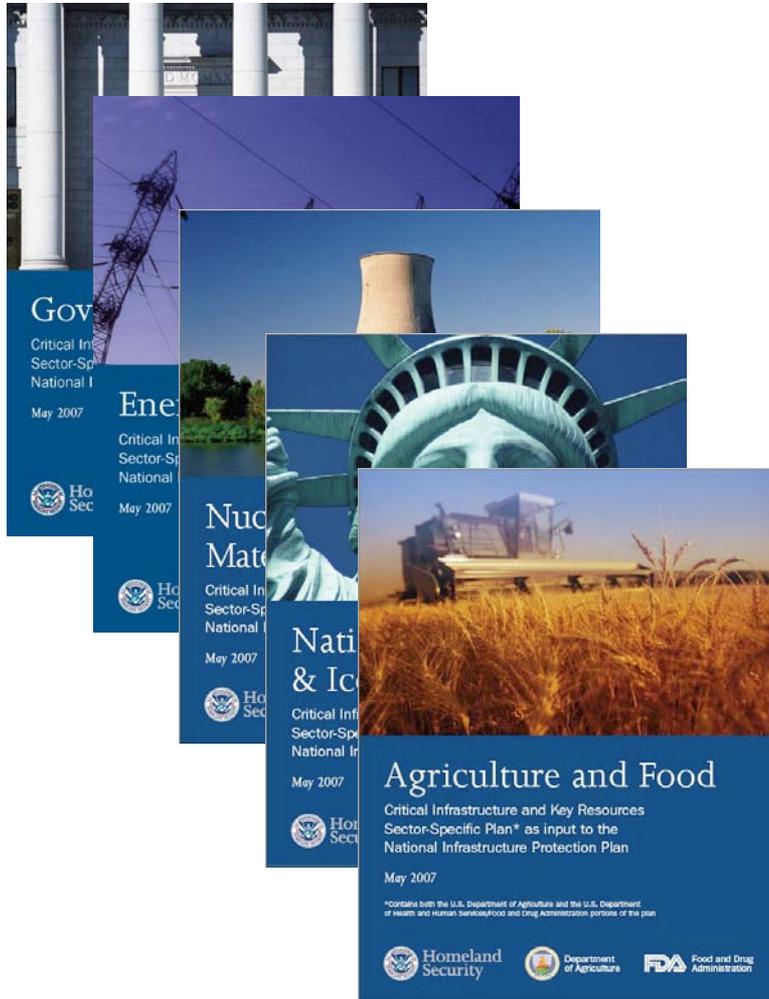
# Assessing Risks & Prioritization

## HITRAC

Homeland Infrastructure Threat & Risk Analysis Center



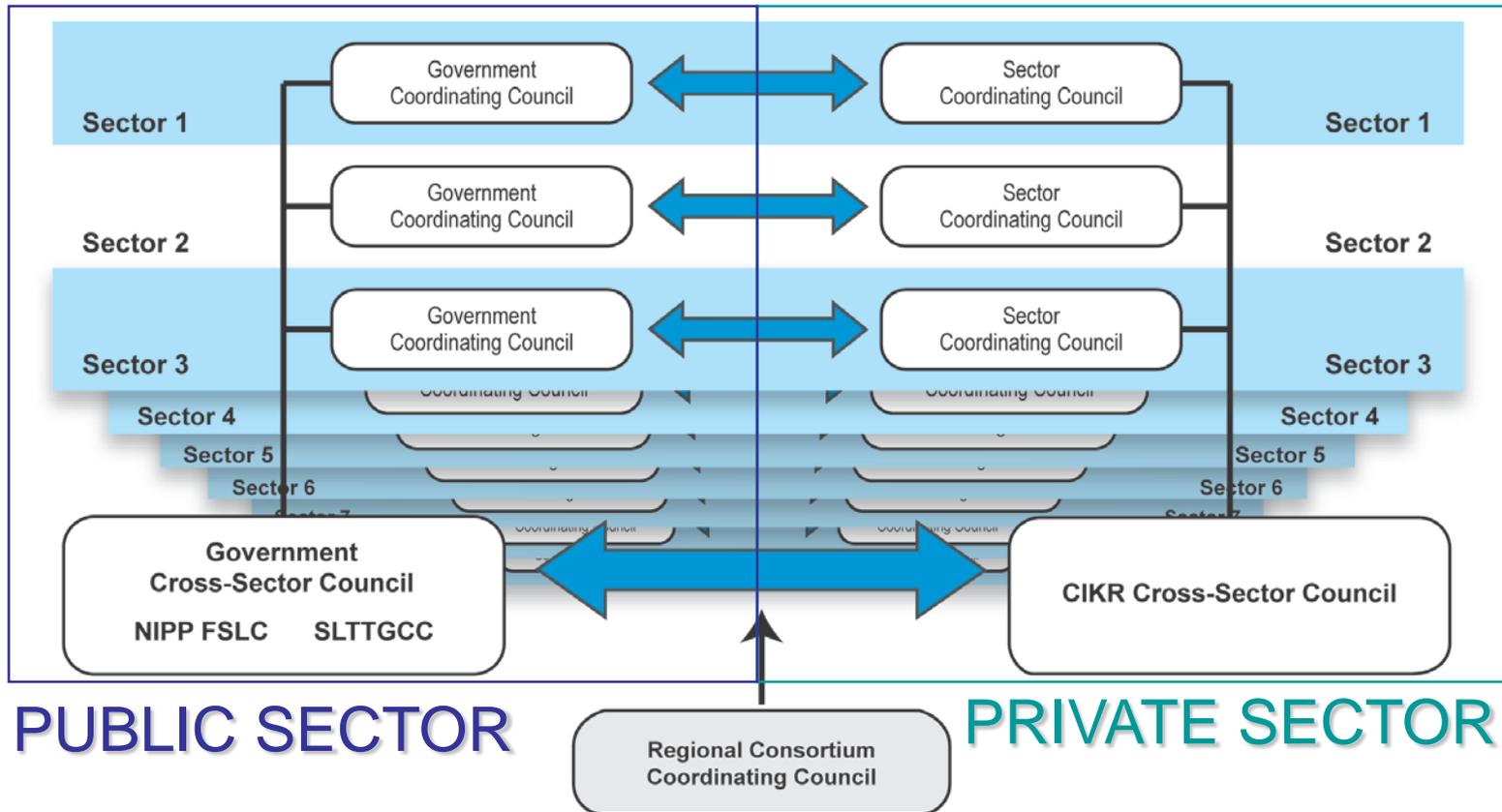
# Sector-Specific Plans (SSPs)



- **Sector-Specific Plans (SSPs)** tailor the NIPP risk management framework to each CIKR sector
- Address each sector's unique characteristics and risk landscape
- Sector-Specific Agencies partnered with Sector Coordinating Councils and Government Coordinating Councils to develop
- SSPs released May 2007, underwent annual review 2008
- 2009 annual review release soon
- SSPs undergo a triennial review for reissue in 2010

# Sector Partnership Model

- Critical infrastructure protection & resiliency – shared responsibilities of Federal, State, local, tribal, and territorial governments, regional coalitions, and the owners and operators of America’s CIKR
  - NIPP outlines roles & responsibilities
  - NIPP describes information sharing environment & communications



# Cross-Sector Coordination

↑ **18 Critical Infrastructure Sectors** ↓

Agriculture/Food  
Banking & Finance  
Chemical  
Commercial Facilities  
Communications  
Critical Manufacturing  
Dams  
Defense Industrial Base  
Emergency Services  
Energy  
Government Facilities  
Healthcare and Public Health  
Information Technology  
National Monuments & Icons  
Nuclear  
Postal & Shipping  
Transportation Systems  
Water

Regional Consortium Coordinating Council

Cross-Sector Cybersecurity Working Group

State, Local, Tribal, and Territorial  
Government Coordinating Council

CIKR Cross-Sector Council

Federal Senior Leadership Council (FSLC)

# National Response Framework

## *CIKR Support Annex*

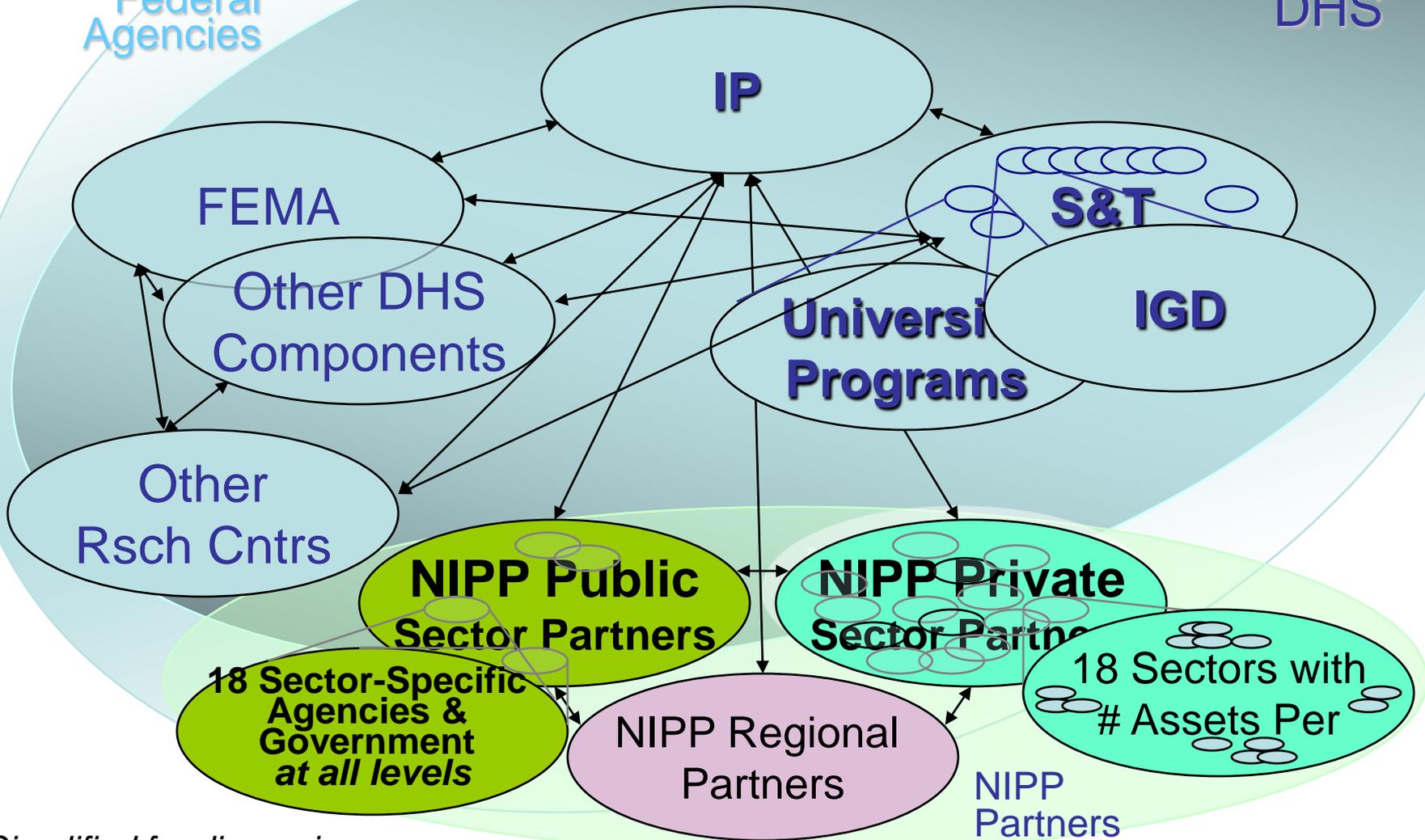


- CIKR Annex provides a *bridge* between the steady-state critical infrastructure protection and National Response Framework's (**NRF**) incident management doctrine
- Addresses recommendations of the Hurricane Katrina after-action

# Complex Resiliency Collaboration

Federal Agencies

DHS



*Simplified for discussion ...*



Homeland Security

RUN A SIMULATION  
OF OUR PRODUCTIVITY  
IF WE LOST HALF  
OUR WORKFORCE TO A  
PANDEMIC.



www.dilbert.com scottadams@aol.com

SHOULD I ASSUME WE  
LOSE THE PRODUCTIVE  
PEOPLE OR THE PEOPLE  
WHO ASK OTHER PEOPLE  
TO RUN PANDEMIC  
SIMULATIONS?



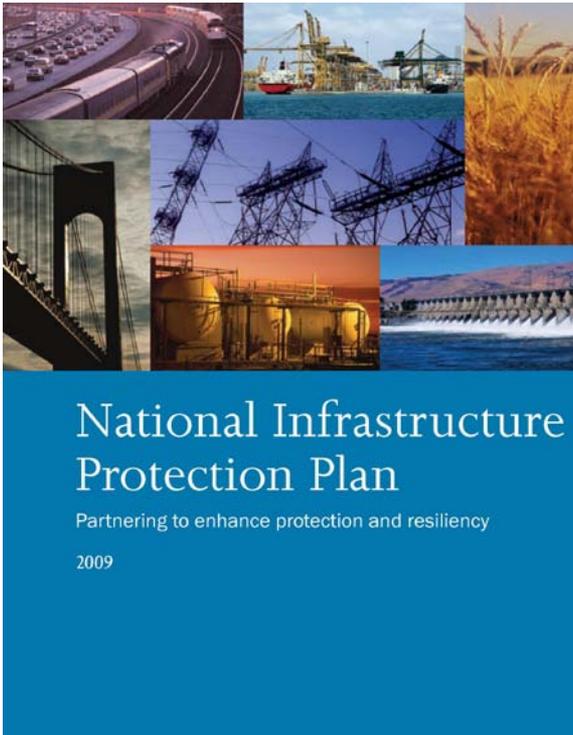
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TRY  
BOTH  
WAYS.

OKAY.  
I'M  
DONE.



# National Infrastructure Protection Plan (NIPP)



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18 Mar 09

# Strategic Drivers



**Homeland Security Act of 2002** established Assistant Secretary for Infrastructure Protection, responsible for assessing vulnerabilities of **critical infrastructures & key resources (CIKR)** and developing a comprehensive national plan

**National Strategies** for Homeland Security, Cyber Security, and Physical Protection of CIKR provided high level goals and priorities for the **Office of Infrastructure Protection (IP)**



- HSPD-5
- HSPD-7
- HSPD-8
- HSPD-9
- HSPD-19

**Homeland Security Presidential Directives (HSPD)** provide policy guidance in the areas of incident management, critical infrastructure protection, and National preparedness

**Hurricanes** in 2005 through 2008 affirmed IP's mission & central role in preparedness and resiliency planning



**Department of Homeland Security Appropriations Act of 2007**

**2007 DHS Appropriations Act** charged IP with creating a chemical security regulatory program; **2006, P.L. 109-295, Section 550** directed regulation of high-risk chemical facilities; **2008 Appropriations Act** adds Ammonium Nitrate regulations

**STAKEHOLDER INTERACTION**

# National Infrastructure Protection Plan

- Build a safer, more secure, and more resilient America
  - ... by preventing, deterring, neutralizing, or mitigating the effects of terrorists to destroy, incapacitate, or exploit our Nation's CIKR
  - ... to strengthen national preparedness, timely response, and rapid recovery of CIKR in the event of an attack, natural disaster, or other emergency



# NIPP Triennial Review Process

- Process began May 2008 and involved other Federal departments, agencies, and the private sector
- Working sessions held with Sector-Specific Agencies, Partnership for Critical Infrastructure Security, and the State, Local, Tribal, and Territorial Government Coordinating Council (SLTGCC)
- Two Federal Register Notices with opportunity for public review/comment in June and October
- Homeland Security Council Critical Infrastructure Protection Policy Coordination Committee concurrence received 12/23

# Summary of Most Significant Revisions

- Incorporation of partnership concept throughout plan
- Metrics section focuses on outcome based metrics, simplifies metrics approach
- Developments in programs, approaches, and tools used to implement the NIPP risk management framework
- Updates on information-sharing mechanisms
- CIKR mission integration in State & local fusion centers
- Cybersecurity & international appendixes enhanced
- CIKR protection-related education, training, outreach, and exercise programs expanded
- Evolution of FEMA's National Response Plan to the National Response Framework (NRF)

# Overview of Key Changes

- NIPP improvements do not change underlying 2006 policy
- 2009 NIPP integrates the concepts of resiliency and protection and broadens the focus of NIPP-related programs and activities to the all-hazards environment
- Changes reflect suggestions and comments ...
  - Release of Sector Specific Plans in 2007
  - New HSPDs, National Homeland Security Strategy, legislation
  - Establishment of Critical Manufacturing as 18th Sector
  - Designated Education a subsector of Government Facilities
  - Formed Regional Consortium Coordinating Council
  - Released Chemical Facility Anti-Terrorism Standards