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**IS-860.a—The National Infrastructure  
Protection Plan:  
An Introduction  
Instructor Guide**

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**April 2009**



**Topic****NIPP Training – Course Overview**

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**Purpose**

The purpose of this training is to present an overview of the National Infrastructure Protection Plan (NIPP) to support its implementation in Federal, State, local, and tribal governments, and in private sector organizations.

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**Objectives**

At the end of this course, the participants should be able to:

- Explain the importance of protecting and ensuring the resiliency of the critical infrastructure and key resources (CIKR) of the United States.
  - Describe how the NIPP provides a unifying structure for the integration of CIKR protection efforts into a single national program.
  - Define CIKR, protection, and resiliency in the context of the NIPP.
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**Scope**

The scope of this course includes:

- Overview of the NIPP
  - Authorities and Roles
  - The Strategy: Managing Risk
  - The Long-Term Vision
  - Summary
  - Resources: Job Aids, Fact Sheet, and Glossary (Glossary appears at the back of the Student Manual.)
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**Estimated Completion Time**

3 hours

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**Equipment**

- Computer and projector
  - Speakers or output to a sound system
  - Note: The speakers built into a typical computer will not be loud enough for the audience to hear the audio elements within the digital video segments.
  - Extension cord and power strip (if needed)
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**Materials**

- At least one copy of the National Infrastructure Protection Plan
  - Copies of the Student Manual, including the Resources
  - PowerPoint files
  - Tests
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## Topic

## NIPP Training – Course Overview (Continued)

**Preparation**

Test the presentation on your equipment. The videos are activated automatically in the Slide Show mode. The videos will not work unless you are in this mode. **The videos will play better if the presentation is copied onto the computer's hard drive. To ensure that the videos stay associated with the presentation, you should copy the entire folder (titled "NIPP") rather than the individual files.**

**Final Test**

To receive a certificate of completion, students must take the 25-question multiple-choice final test, submit an answer sheet (to EMI's Independent Study Office), and score at least 75% on the test. Do NOT use the test unless you see IS-860.a in the header and April 2009 in the footer. Older test versions contain outdated materials. Two options exist for test submission:

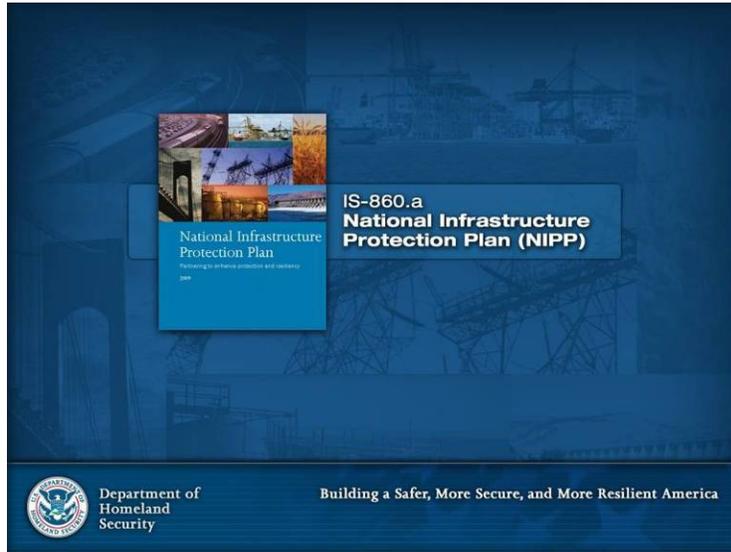
Students submit their tests online and receive a certificate in the mail.

- Go to <http://www.training.fema.gov/EMIWEB/is/is860.asp>.
- Click on "Download Final Exam Questions" (found at the bottom of the page). You may want to print the test.
- Click on "Take Final Exam" (found at the bottom of the page).

Instructions for group delivery: Tests can be provided upon request by calling (301) 447-1256. The completed tests can then be submitted as a group to:

EMI Independent Study  
16825 South Seton Avenue  
Emmitsburg, MD 21727

## Visual 1

**Visual Description:** Training Introduction**Instructor Notes**

Display the visual and review the following points:

The purpose of this training is to provide an overview of the National Infrastructure Protection Plan (NIPP) to support its implementation in Federal, State, local, tribal, and territorial governments, and private sector organizations.

The following topics will be covered:

- National Infrastructure Protection Plan (NIPP) overview.
- Roles and responsibilities of Federal, State, local, tribal, and territorial governments, and private sector organizations.
- The Strategy: Managing Risk.
- The Long-term vision.
- Summary.
- Questions and answers.

## Visual 2

**Objectives**

- Explain the importance of protecting and ensuring the resiliency of critical infrastructure and key resources (CIKR).
- Describe how the NIPP provides a unifying structure for the integration of CIKR protection efforts into a single national program.
- Define CIKR, protection, and resiliency in the context of the NIPP.

Department of Homeland Security

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April 2009  
Visual 2

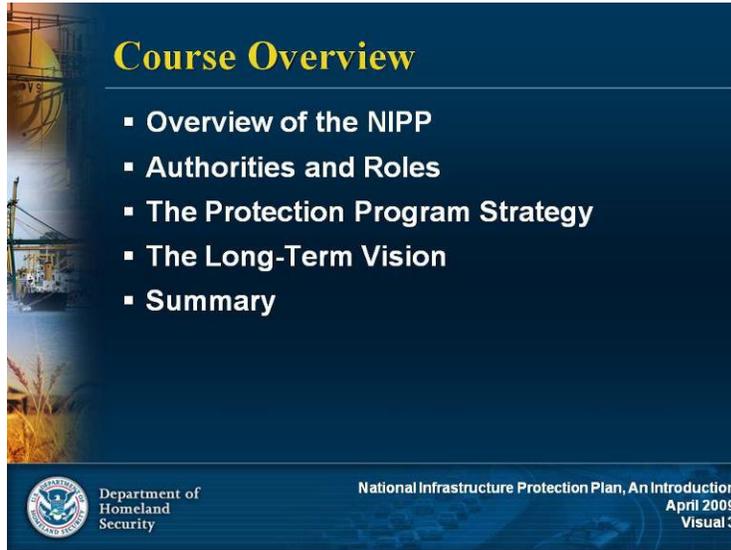
**Visual Description:** Objectives

**Instructor Notes**

After completing this training, participants will be able to:

- Explain the importance of protecting and ensuring the resiliency of critical infrastructure and key resources (CIKR).
- Describe how the NIPP provides a unifying structure for the integration of CIKR protection efforts into a single national program.
- Define CIKR, protection, and resiliency in the context of the NIPP.

## Visual 3



**Visual Description:** Course Overview

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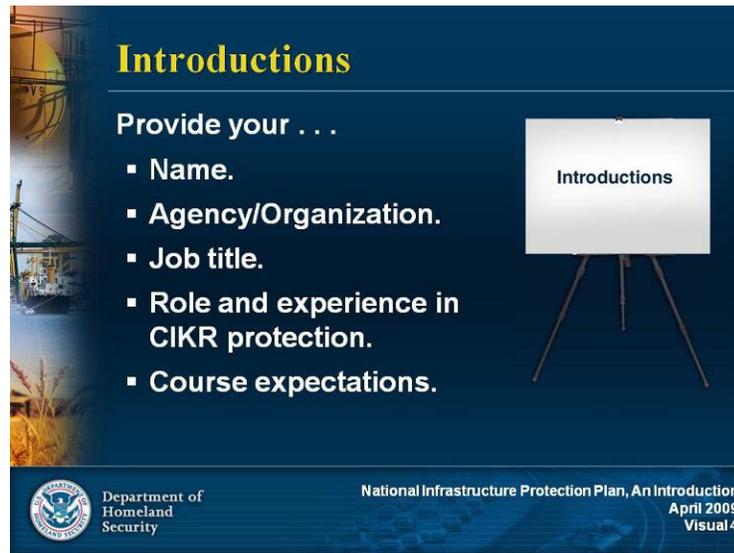
**Instructor Notes**

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Review the course elements:

- Overview of the NIPP
- Authorities and Roles
- Protection Program Strategy
- Long-Term Vision
- Summary

## Visual 4



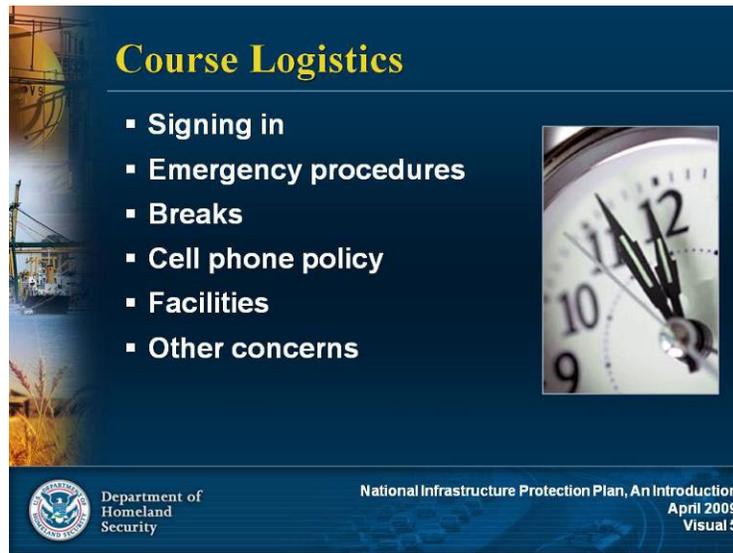
**Visual Description:** Introductions

**Instructor Notes**

Ask each participant to share the following information:

- Name.
- The agency/organization he or she works for.
- Job title.
- Role and experience in CIKR protection.
- Expectations for the course.

## Visual 5



**Course Logistics**

- Signing in
- Emergency procedures
- Breaks
- Cell phone policy
- Facilities
- Other concerns

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Visual 5

**Visual Description:** Course Logistics

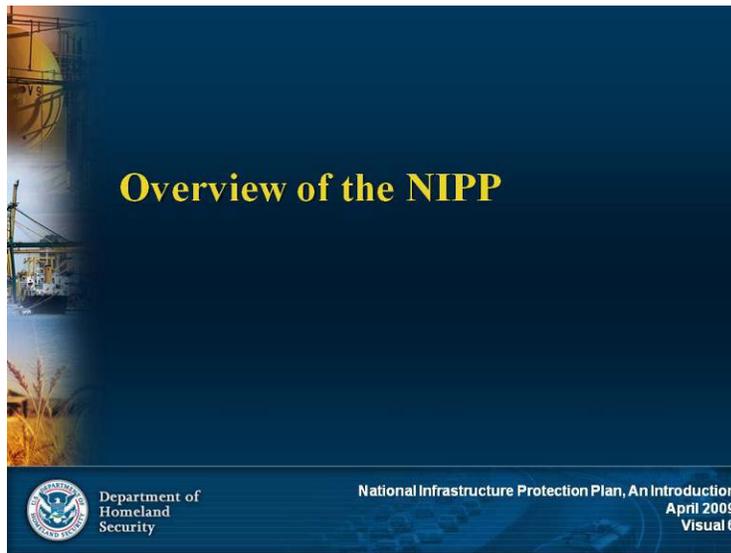
**Instructor Notes**

Review course logistics, such as policies and procedures for:

- Signing in.
- Emergencies.
- Breaks.
- Cell phones.

Discuss the site's facilities and address any questions the participants may have.

## Visual 6



**Visual Description:** Overview of the NIPP

### Instructor Notes

Review the following key points:

- **National Infrastructure Protection Plan (NIPP).** The NIPP provides the unifying structure for the integration of CIKR protection efforts and resiliency strategies into a single national program.

The NIPP establishes an overall framework for integrating programs and activities that are currently underway in the various sectors and jurisdictions, as well as new and developing CIKR protection and resiliency efforts.

- **Integration Framework.** Many owners and operators, government emergency managers, and first responders have developed strategies, plans, policies, and procedures to prepare for, mitigate, respond to, and recover from a variety of natural and manmade incidents.

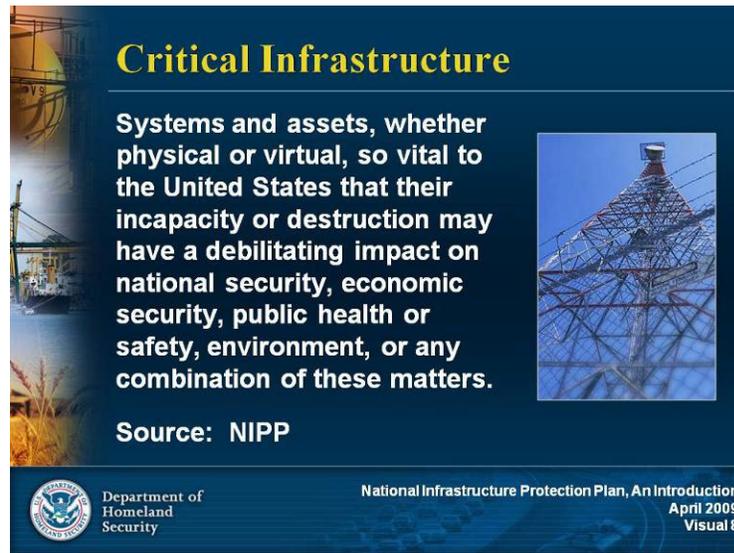
The NIPP framework supports these efforts and, additionally, provides an augmented focus on the protection of America's CIKR against terrorist attacks.

- **CIKR Partnerships.** The NIPP defines CIKR partners as those Federal, State, regional, territorial, local, or tribal government entities, private sector owners and operators and representative organizations, academic and professional entities, and certain not-for-profit and private volunteer organizations that share in the responsibility for protecting the Nation's CIKR.

The NIPP provides the framework that defines the processes and mechanisms that allow these partners to work collaboratively to integrate CIKR protection and resiliency efforts, set goals and objectives, and focus resources according to risk.



## Visual 8



**Visual Description:** Critical Infrastructure

**Instructor Notes**

Protecting the critical infrastructure and key resources of the United States is essential to the Nation's security, public health and safety, economic vitality, and way of life.

The Homeland Security Act of 2002 provides the definition for critical infrastructure and key resources. These definitions provide the basic understanding and common planning assumptions for the NIPP.

**Critical infrastructure** refers to systems and assets, whether physical or virtual, so vital that the incapacity or destruction of such may have a debilitating impact on the security, economy, public health or safety, environment, or any combination of these matters, across any Federal, State, regional, territorial, or local jurisdiction. (Source: NIPP)

## Visual 9

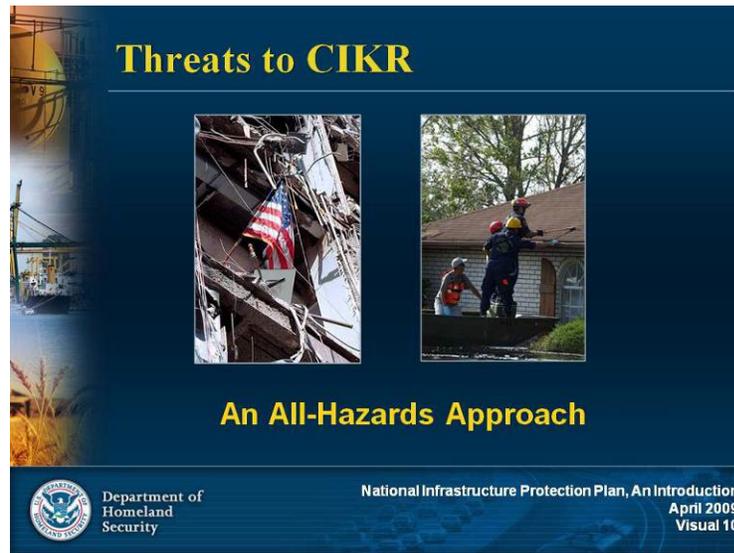


**Visual Description:** Key Resources

**Instructor Notes**

**Key resources**, as defined in the Homeland Security Act of 2002, are publicly or privately controlled resources essential to the minimal operations of the economy and government.

## Visual 10



**Visual Description:** Threats to CIKR

### Instructor Notes

- **Importance of Critical Infrastructure and Key Resources.** America is an open, technologically sophisticated, highly interconnected and complex Nation with a wide array of infrastructure that spans important aspects of U.S. government, economy, and society.

Terrorist attacks on CIKR and other manmade or natural disasters could significantly disrupt the functioning of government and business alike, and produce cascading effects far beyond the affected CIKR and physical location of the incident.

- **The Terrorist Threat.** The number and high profile of international and domestic terrorist attacks and disrupted plots during the last two decades underscore the determination and persistence of terrorist organizations. Terrorists have proven to be relentless, patient, opportunistic, and flexible, learning from experience and modifying tactics and targets to exploit perceived vulnerabilities and avoid observed strengths.

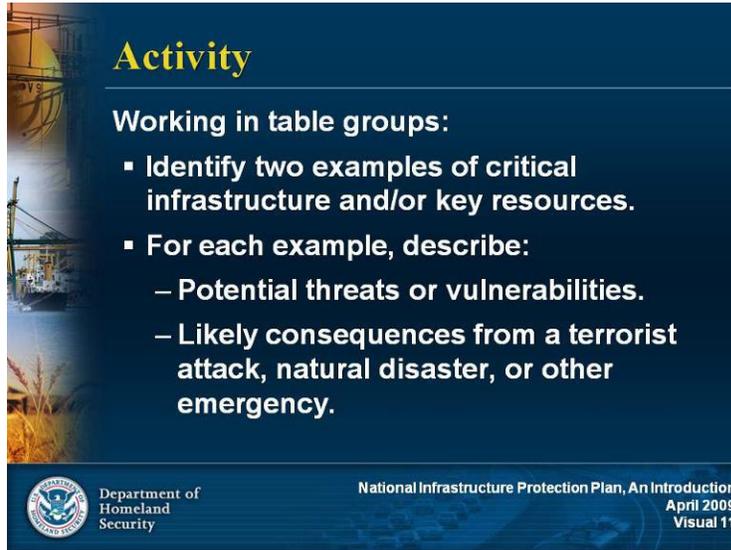
Terrorist attacks against CIKR across the United States could seriously threaten national security, result in mass casualties, weaken the economy, and damage public morale and confidence.

- **All-Hazards Approach.** In addition to addressing CIKR protection related to terrorist threats, the NIPP describes activities relevant to CIKR protection and preparedness in an all-hazards context. The direct impacts, disruptions, and cascading effects of natural disasters and manmade incidents are documented and underscore the vulnerabilities and interdependencies of the Nation's CIKR.

## Topic

## Activity

## Visual 11

The slide features a dark blue background with a collage of images on the left side, including a bridge, a power plant, and a field. The word "Activity" is written in yellow at the top. Below it, the text "Working in table groups:" is followed by a bulleted list of instructions. At the bottom left is the Department of Homeland Security logo, and at the bottom right is the title "National Infrastructure Protection Plan, An Introduction April 2009 Visual 11".

**Activity**

Working in table groups:

- Identify two examples of critical infrastructure and/or key resources.
- For each example, describe:
  - Potential threats or vulnerabilities.
  - Likely consequences from a terrorist attack, natural disaster, or other emergency.

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Visual 11

**Visual Description:** Activity

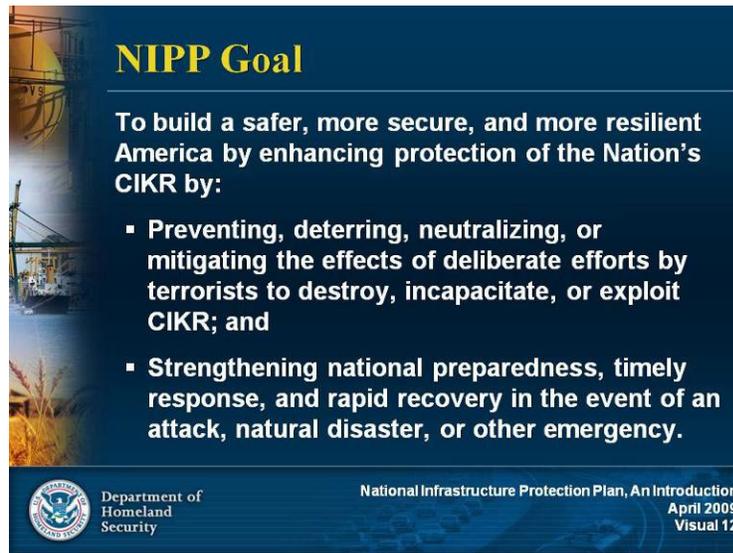
**Instructor Notes**

Explain that the participants at each table comprise a group, and that each group should identify two examples of critical infrastructure and/or key resources.

For each example, the groups should describe:

- Potential threats or vulnerabilities.
- Likely consequences from a terrorist attack, natural disaster, or other emergency.

## Visual 12

The slide features a dark blue background with a collage of images on the left side, including a bridge, a power line tower, and a field of wheat. The text is in white and yellow. At the bottom left is the Department of Homeland Security logo, and at the bottom right is the title and date information.

**NIPP Goal**

To build a safer, more secure, and more resilient America by enhancing protection of the Nation's CIKR by:

- Preventing, deterring, neutralizing, or mitigating the effects of deliberate efforts by terrorists to destroy, incapacitate, or exploit CIKR; and
- Strengthening national preparedness, timely response, and rapid recovery in the event of an attack, natural disaster, or other emergency.

Department of Homeland Security

National Infrastructure Protection Plan, An Introduction  
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Visual 12

**Visual Description:** NIPP Goal

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**Instructor Notes**

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The events of September 11, 2001, and the cascading effects of Hurricane Katrina provided real-world lessons on the importance of protecting our CIKR. The terrorist attacks on the Pentagon and World Trade Centers, followed by the anthrax attacks, highlighted the potential vulnerabilities and the importance of protecting the American way of life.

We learned that in order to address the full range of 21st century threats—terrorist attacks, natural disasters, or other manmade or technological hazards—we must consider the potential impacts to CIKR. This includes the direct effects, dependencies, interdependencies, and cascading effects, as well as international, global, cross-border, and cyber considerations.

By improving our ability to protect the critical infrastructure, we also strengthen our capability to prepare for, prevent, respond to, and recover from disasters or emergencies of any type. The overarching goal of the NIPP is to build a safer, more secure, and more resilient America by:

- Enhancing protection of the Nation's 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.

## Visual 13

**Visual Description:** Protection Activities**Instructor Notes**

Using the established priorities, CIKR partners select sector-appropriate protective actions or programs to reduce or manage the risk identified and secure the resources needed to address priorities.

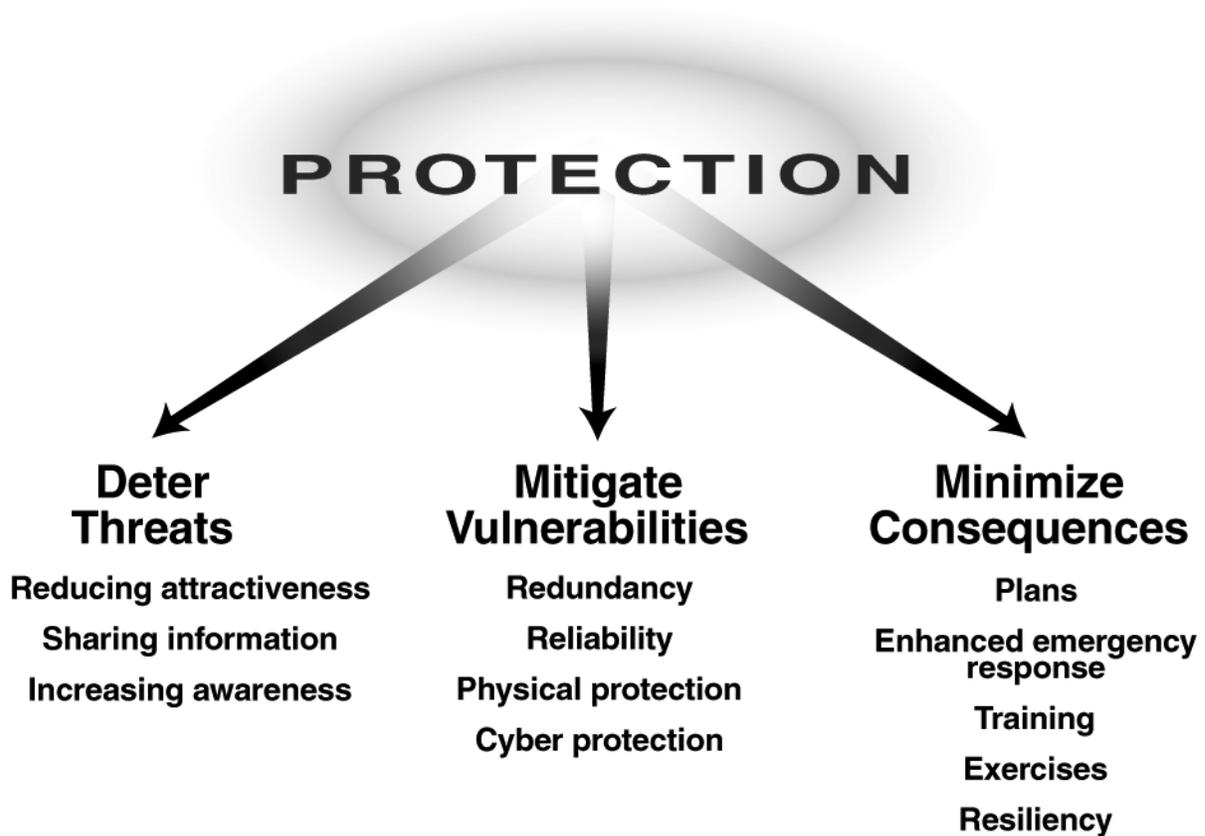
In the context of the NIPP, protection includes actions to mitigate the overall risk to CIKR assets, systems, networks, or their interconnecting links resulting from exposure, injury, destruction, incapacitation, or exploitation. This includes actions to:

- Deter the threat,
- Mitigate vulnerabilities, or
- Minimize consequences associated with a terrorist attack or other incident.

Protection can include a wide range of activities, such as:

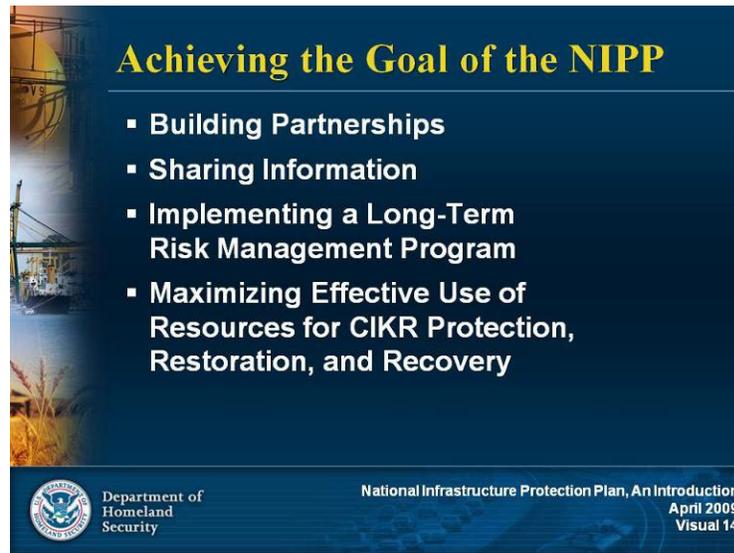
- Hardening facilities.
- Building resiliency and redundancy.
- Incorporating hazard resistance into initial facility design.
- Initiating active or passive countermeasures.
- Installing security systems.
- Promoting workforce surety.
- Training and exercises.
- Implementing cybersecurity measures.

Note: A larger version of the illustration on the visual is provided on the following page.



**Caption:** Graphic showing that the goal of the NIPP is to enhance protection of the Nation's CIKR in order to deter threats, mitigate vulnerabilities, and minimize consequences.

## Visual 14



**Visual Description:** Achieving the Goal of the NIPP

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**Instructor Notes**

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- **Information Sharing.** The NIPP information-sharing approach constitutes a shift from a strictly hierarchical to a networked model, allowing distribution and access to information to enable decentralized decisionmaking and actions.

The effective implementation of the NIPP is predicated on active participation by government and private sector security partners in robust, multidirectional information sharing.

- When owners and operators are provided with a comprehensive picture of threats or hazards to CIKR and participate in ongoing multidirectional information flow, their ability to assess risks, make prudent security investments, and take protective actions is substantially enhanced.
  - When the Government is equipped with an understanding of private sector information needs, it can adjust its information collection, analysis, synthesis, and dissemination activities accordingly.
  - When the private sector is assured that the critical infrastructure information that it shares with the government will be protected from release or disclosure, the Nation's CIKR protection capabilities will be enhanced.
- **CIKR Partnerships.** The NIPP defines CIKR partners as those Federal, State, regional, territorial, local, or tribal government entities, private sector owners and operators and representative organizations, academic and professional entities, and certain not-for-profit and private volunteer organizations that share in the responsibility for protecting the Nation's CIKR.

The NIPP provides the framework that defines the processes and mechanisms that allow these partners to work collaboratively to integrate CIKR protection and resiliency efforts, set goals and objectives, and focus resources according to risk.

- **Long-Term Risk-Management Program Implementation.** To ensure an effective, efficient CIKR risk management program over the long term, the NIPP relies on building national awareness; enabling education, training, and exercise programs; conducting research and development (R&D) and using technology; developing, protecting, and maintaining data systems/simulations; and continuously improving the NIPP.
- **Effective Use of Resources for CIKR Protection, Restoration, and Recovery.** Metrics provide a basis to establish accountability, document actual performance, facilitate diagnoses, promote effective management, and provide a feedback mechanism to decisionmakers.

## Visual 15



**Value Proposition**

Government can encourage industry to assist in CIKR protection through activities such as:

- Providing timely, useful information on threats to CIKR.
- Engaging industry in the development of policies related to NIPP and other CIKR protection initiatives.
- Creating an environment that encourages incentives for companies to voluntarily adopt sound security practices.
- Providing support for research needed to enhance future CIKR protection efforts.
- Enabling time-sensitive information sharing to priority CIKR facilities during incidents.

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Visual 15

**Visual Description:** Value Proposition

### Instructor Notes

The public-private partnership called for in the NIPP provides the foundation for effective CIKR protection. Government and private sector partners bring core competencies that add value to the partnership. Prevention, response, mitigation, and recovery efforts are most efficient and effective when there is full participation of government and private sector partners. These efforts suffer without the full participation of either partner.

The National Strategy, the Homeland Security Act, and HSPD-7 recognize the importance of private sector participation for implementing a coordinated and effective program.

Many industries justify their CIKR protection efforts based on corporate business needs. Government can support these private sector efforts and assist in broad-scale CIKR protection through activities such as:

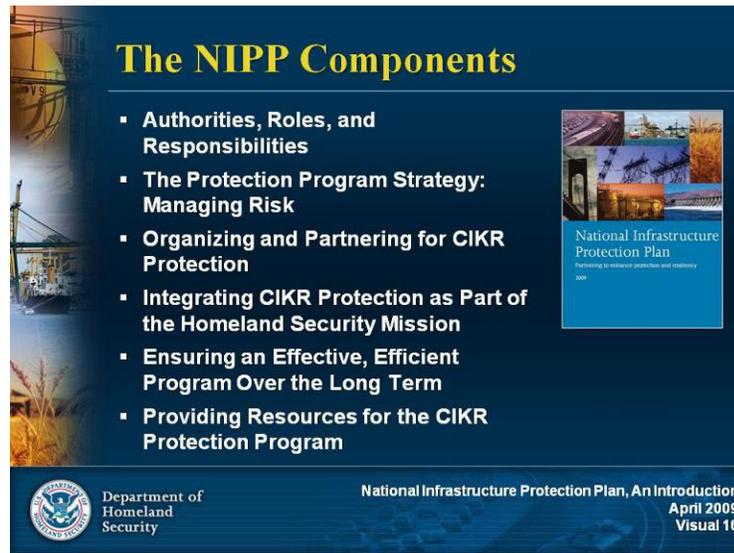
- Providing owners and operators timely, accurate, and useful analysis and information on threats to CIKR.
- Ensuring that industry is engaged as early as possible in the development of policies and initiatives related to NIPP implementation.
- Ensuring industry is engaged as early as possible in the development and revision of the Sector-Specific Plans (SSPs) and in planning and other CIKR protection initiatives.
- Articulating to corporate leaders the business and the national security benefits of investing in security measures that exceed their business case.
- Creating an environment that encourages and supports incentives for companies to voluntarily adopt widely accepted security practices.

**Topic****Overview of the NIPP**

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- Working with industry to develop and clearly prioritize key missions and enable the protection and/or restoration of related CIKR.
- Providing support for research needed to enhance future CIKR protection efforts.
- Developing the resources to engage in cross-sector interdependency studies, through exercises, symposiums, training sessions, and computer modeling, that result in guided decision support for business continuity planning.
- Providing the resources to enable cross-sector interdependency studies, exercises, symposiums, training sessions, and computer modeling; and otherwise support business continuity planning.

## Visual 16



**Visual Description:** The NIPP Components

**Instructor Notes**

The NIPP covers the full range of physical, cyber, and human protection within and across all of the Nation's CIKR sectors, and is divided into the following sections:

- Executive Summary
- Chapter 1. Introduction
- Chapter 2. Authorities, Roles, and Responsibilities
- Chapter 3. The Strategy: Managing Risk
- Chapter 4. Organizing and Partnering for CIKR Protection
- Chapter 5. CIKR Protection as Part of the Homeland Security Mission
- Chapter 6. Ensuring an Effective, Efficient Program Over the Long Term
- Chapter 7. Providing Resources for the CIKR Protection Program