



FEMA

Planning, Communicating & Mitigating Hazards

August 6, 2013

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Federal Insurance & Mitigation Administration

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RiskMAP

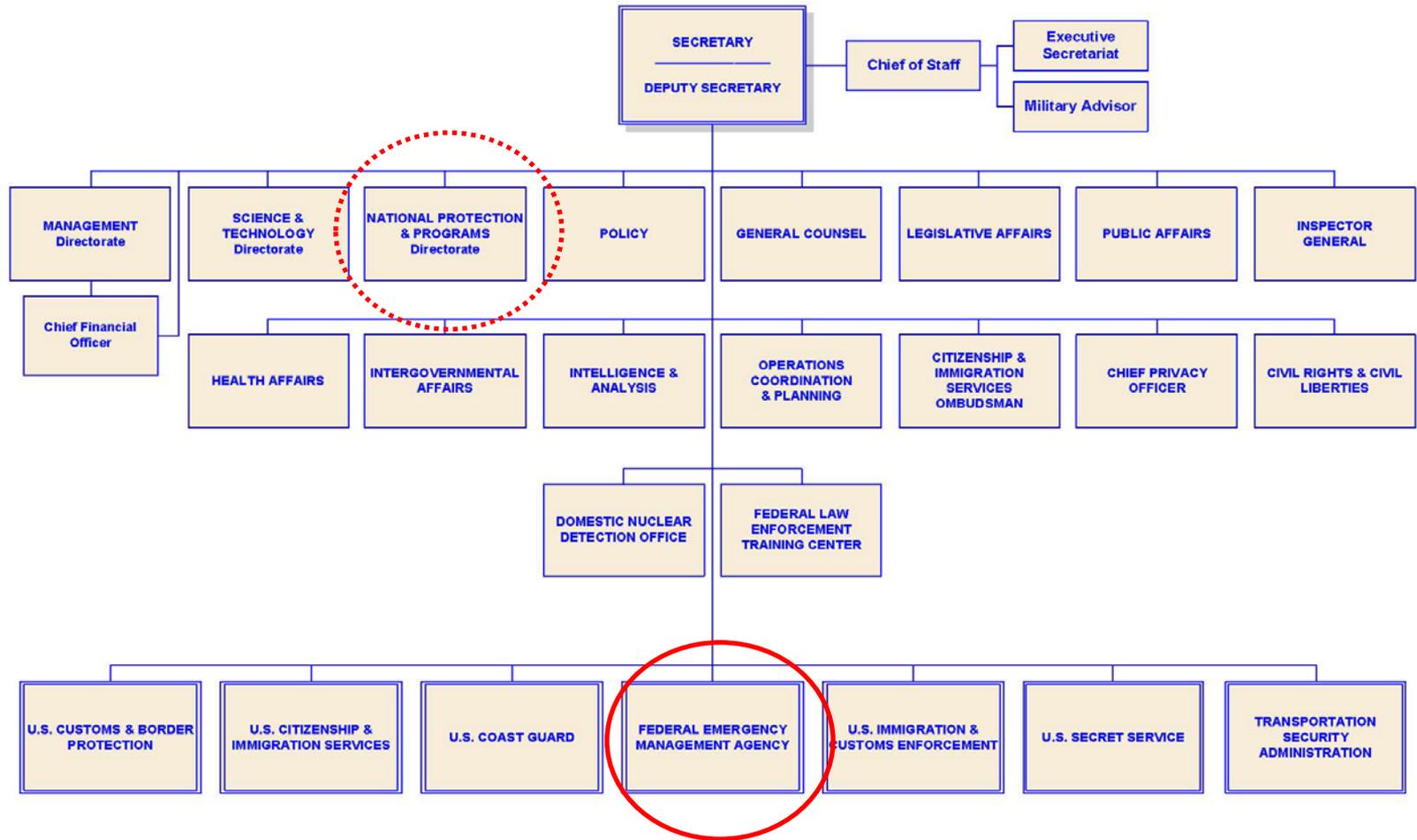
Increasing Resilience Together



Agenda

- DHS/FEMA Mission, Authorities & Organization
- Hazard Mitigation Overview
- Mitigation Planning Process
- Opportunities for Integrating Pipeline Hazards

U.S. DEPARTMENT OF HOMELAND SECURITY



Critical Infrastructure (DHS NPPD)

- **Critical Infrastructure:** 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 safety or health, environment, or any combination of these matters, across any jurisdiction.

- | | |
|-----------------------------------|---|
| 1. banking and finance; | 14. national monuments and icons; |
| 2. chemical; | 15. nuclear reactors, materials, and waste; |
| 3. commercial facilities; | 16. postal and shipping; |
| 4. communications; | 17. transportation systems; and |
| 5. critical manufacturing; | 18. water. |
| 6. dams; | |
| 7. defense industrial base; | |
| 8. emergency services; | |
| 9. energy; | |
| 10. food and agriculture; | |
| 11. government facilities; | |
| 12. healthcare and public health; | |
| 13. information technology; | |

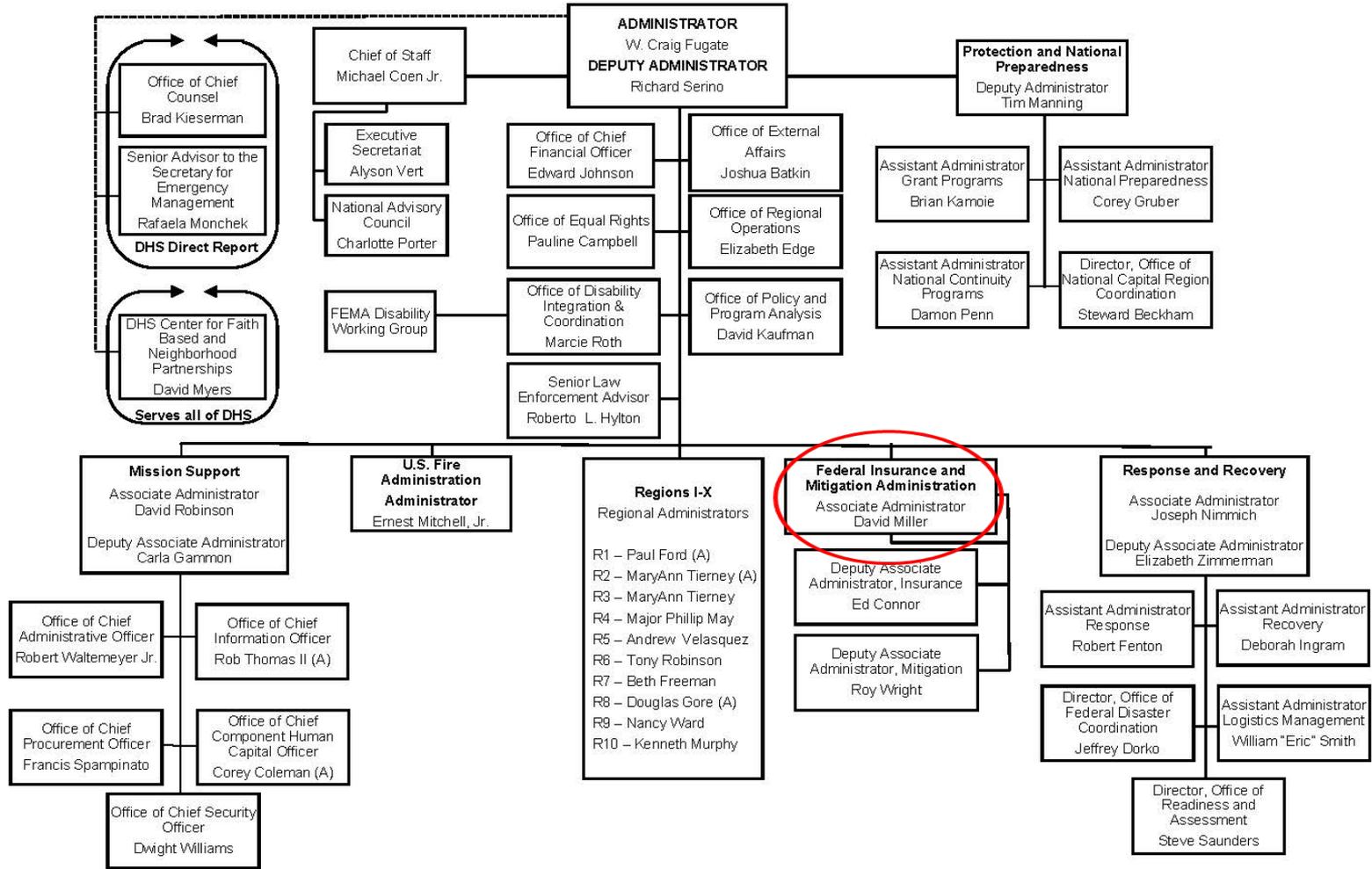


National Infrastructure Protection Plan

Partnering to enhance protection and resiliency

2009

http://www.dhs.gov/xlibrary/assets/NIPP_Plan.pdf



July 1, 2013

(A) Denotes acting incumbent

FEMA Overview

■ MISSION

- *FEMA's mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain and improve our capability to prepare for, protect against, respond to, recover from and mitigate all hazards.*

■ AUTHORITIES

- Robert T. Stafford Disaster Relief and Emergency Assistance Act (1988) as amended
- National Flood Insurance Act (NFIA) of 1968, as amended

■ NATIONAL PREPAREDNESS GOAL (Presidential Policy Directive 8, PPD8)

- *A secure and resilient nation with the capabilities required across the whole community to prevent, protect against, mitigate, respond to, and recover from the threats and hazards that pose the greatest risk*

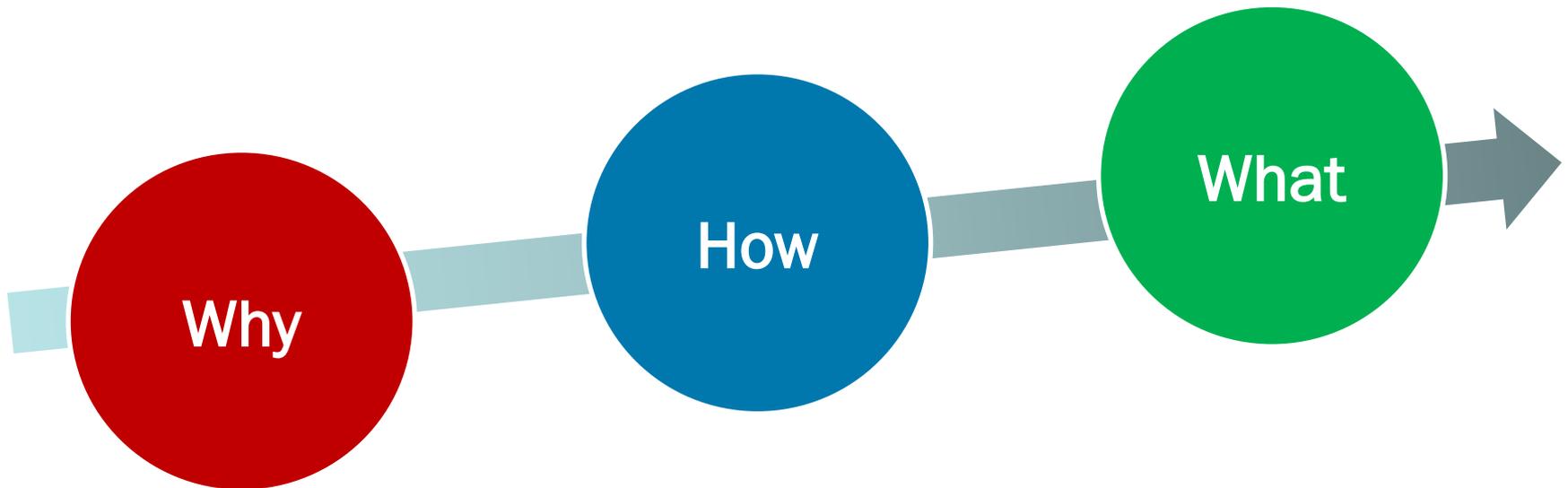
Mission Areas (*a.k.a. National Planning Frameworks*)

- **Prevention.** Prevent, avoid or stop an imminent, threatened or actual act of terrorism.
- **Protection.** Protect our citizens, residents, visitors, and assets against the greatest threats and hazards in a manner that allows our interests, aspirations, and way of life to thrive.
- **Mitigation.** Reduce the loss of life and property by lessening the impact of future disasters.
- **Response.** Respond quickly to save lives, protect property and the environment, and meet basic human needs in the aftermath of a catastrophic incident.
- **Recovery.** Recover through a focus on the timely restoration, strengthening and revitalization of infrastructure, housing and a sustainable economy, as well as the health, social, cultural, historic and environmental fabric of communities affected by a catastrophic incident.

FEMA

Objectives

- WHY “do” hazard mitigation?
- HOW FEMA’s mitigation programs enhance disaster resilience?
- WHAT can communities do to encourage mitigation?



Why “do” Hazard Mitigation?

Why

- Sustained action taken to reduce or eliminate long-term risk from hazards



Protection & Prevention



Response



Recovery



Mitigation

- *Disaster Resilience*: the ability to bounce back quickly and stronger after a disaster or incident happens.

Mitigation Is an Investment

Why

- Prevent injury and loss of life
- Prevent damage to community assets (existing and future)
- Reduce costs of disaster response/recovery
- Advance other community objectives



“Instead of repeated damage and continual demands for federal disaster assistance, resilient communities proactively protect themselves against hazards, build self-sufficiency, and become more sustainable”

(Godschalk et al., 2009)

How FEMA Programs Enhance Disaster Resilience

How

- **Multi-Hazard Mitigation Planning**
- **Hazard Mitigation Assistance (HMA) Grant Programs**
- **Public Assistance**
- **National Flood Insurance Program (NFIP)**
 - Flood Hazard Mapping (RiskMAP)
 - Floodplain Management
 - Flood Insurance
- **National Earthquake Hazards Reduction Program (NEHRP)**
- **National Dam Safety Program**

Hazard Mitigation: ACTION

What

Retrofit a critical facility, enforce building codes, land use planning, removal of structure from hazard area



MITIGATION: Elevated Home by the River



MITIGATION: Property Acquisition



PREPAREDNESS AND RESPONSE: Purchase of Police Command Vehicle

Pipeline Mitigation Actions

What



Types of Mitigation Actions

What



Local Plans and Regulations



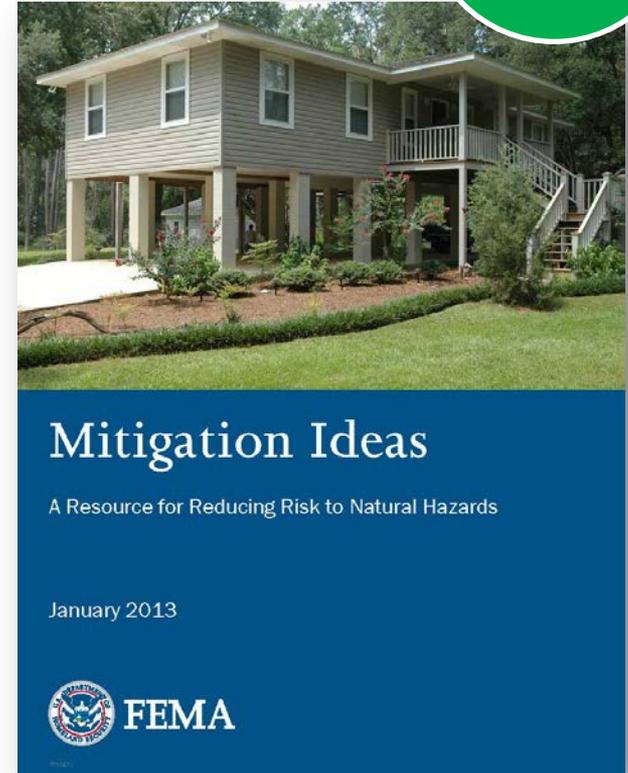
Structure and Infrastructure Projects



Natural Systems Protection



Education and Awareness Programs



<http://www.fema.gov/multi-hazard-mitigation-planning>

Hazard Mitigation PLANNING

How

Create A Safe, Disaster Resilient Community

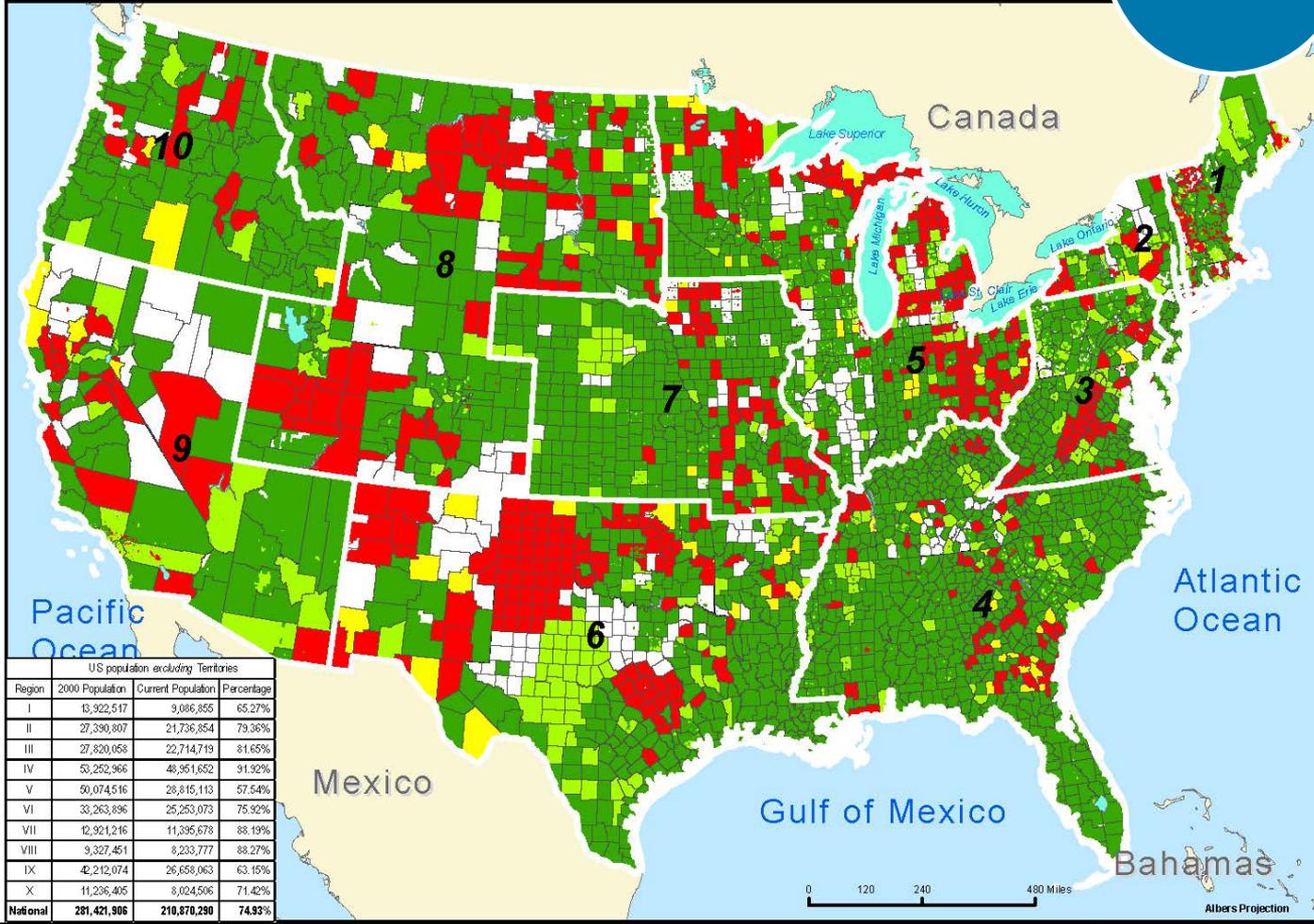
- Coordination and Partnerships
- Education and Awareness
- Risk Analysis
- Identify Actions
- Integration with Community Goals



44 Code of Federal Regulations (CFR) Part 201, Mitigation Planning

Mitigation Plan Coverage

How



US population excluding Territories			
Region	2000 Population	Current Population	Percentage
I	13,922,517	9,086,855	65.27%
II	27,390,807	21,736,854	79.36%
III	27,820,058	22,714,719	81.65%
IV	53,252,366	48,351,652	91.32%
V	50,074,516	28,815,113	57.54%
VI	33,263,896	25,253,073	75.92%
VII	12,921,216	11,395,678	88.19%
VIII	9,327,451	8,233,777	88.27%
IX	4,212,074	26,650,063	63.15%
X	11,236,405	8,024,506	71.42%
National	281,421,906	210,870,230	74.93%

Legend
● Approved
● Expiring in 90 days
● Expired
○ No Status

FEMA Mitigation Plan Status As of December 31, 2012



Mitigation Planning Framework

How

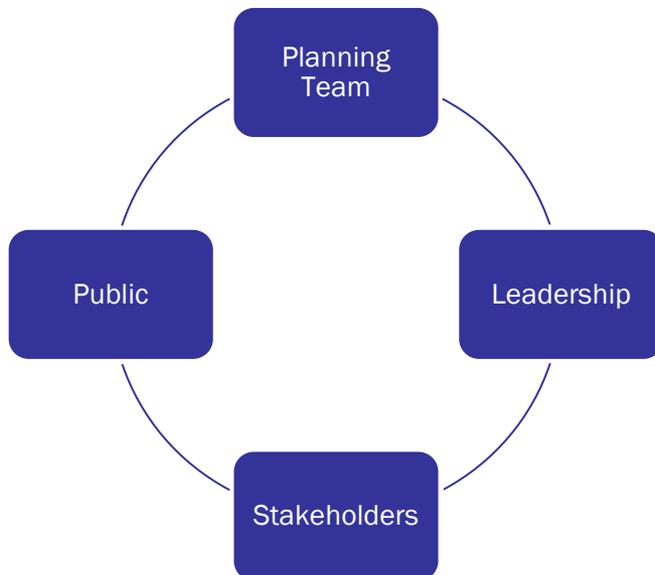


Planning Process

Who, What, When, Where, How?

How

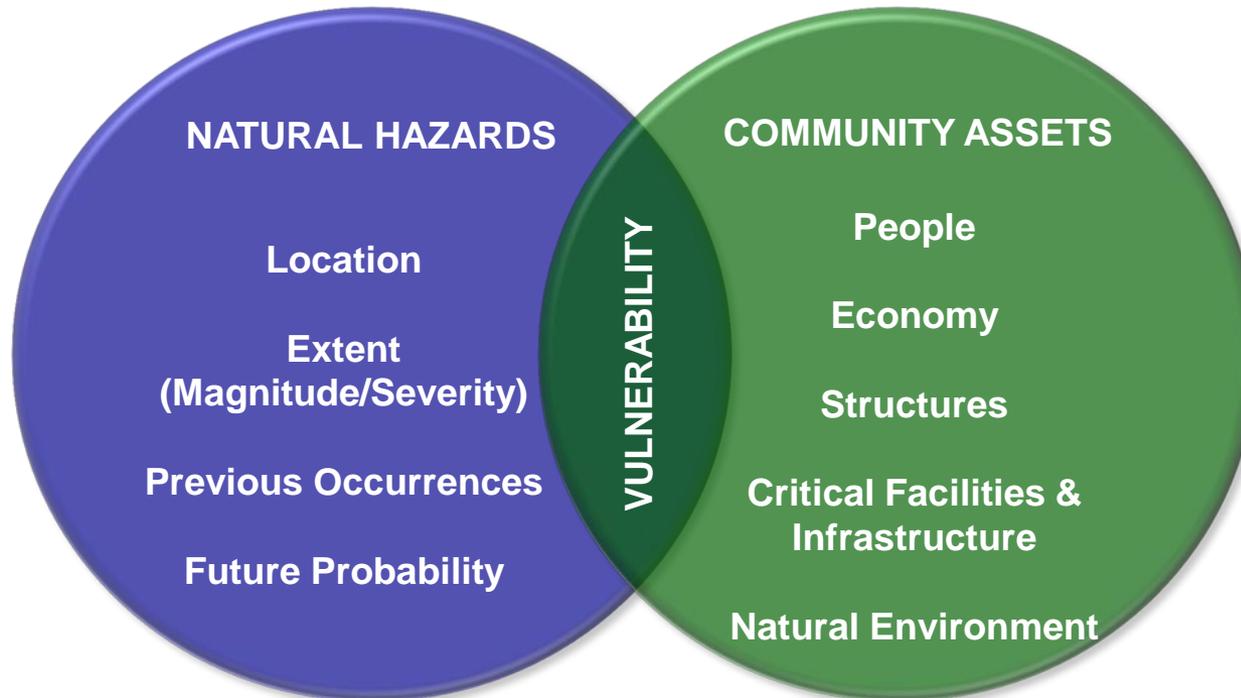
- Who was involved?
- How was the plan prepared?
- How was the public involved?
- What are future public involvement opportunities?



Risk Assessment

Fact Base for Decision-Makers

How

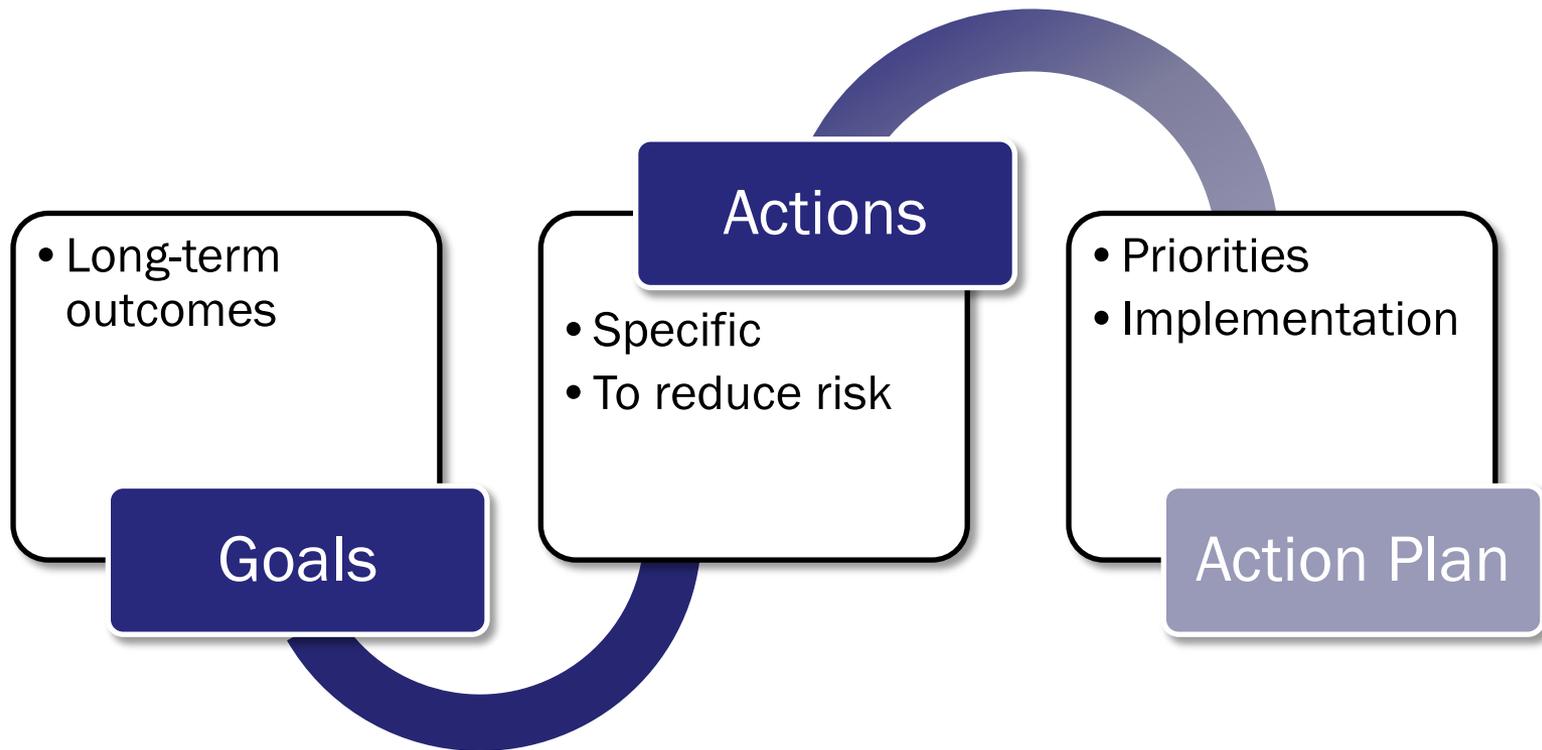


Note: Modified from U.S. Geological Survey and Oregon Partnership for Disaster Resilience Models.

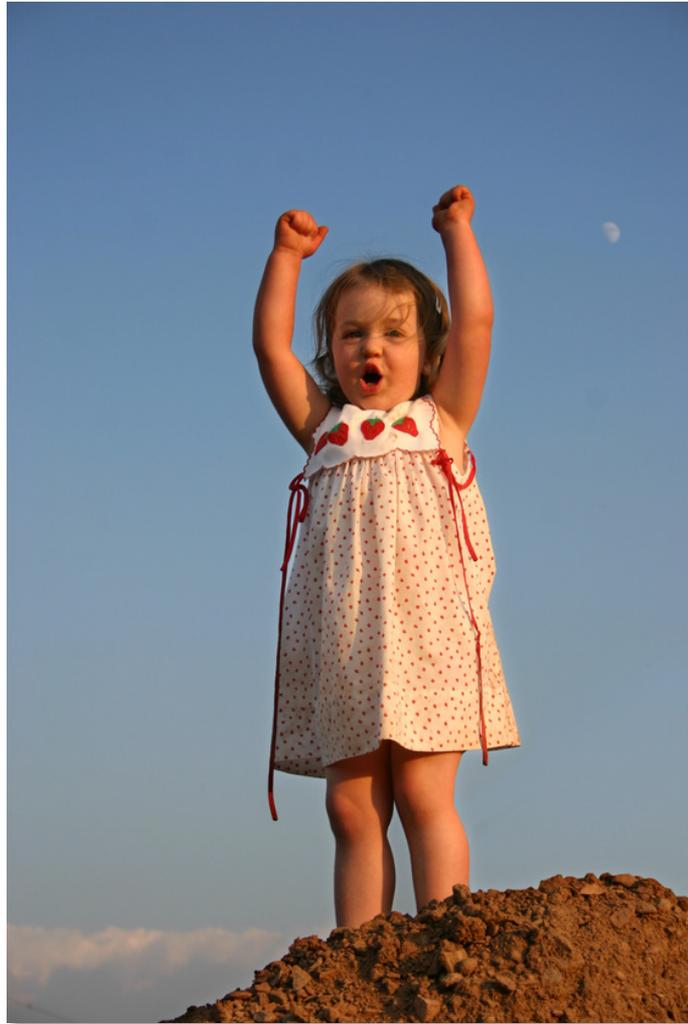
Mitigation Strategy

Blueprint for the Future

How



Celebrate your Success!



Integrating Mitigation

How

- Integrate plan goals with other community objectives
- Use the risk assessment to inform plans and policies
- Implement mitigation actions through existing mechanisms



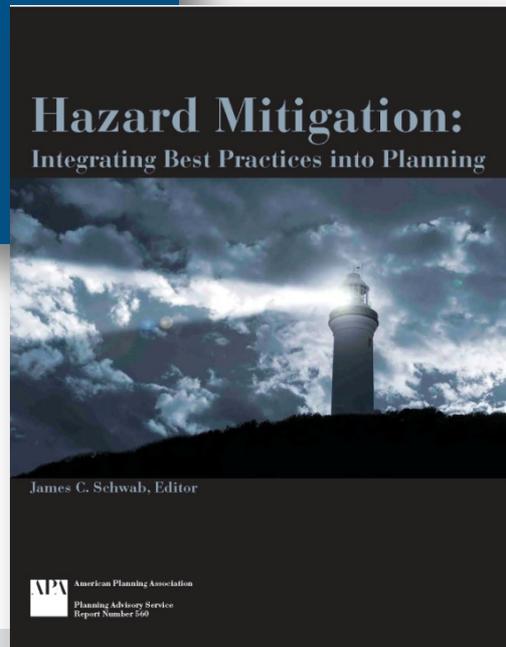
Integrating Mitigation

How



Integrating Hazard Mitigation Into Local Planning

November 2, 2012

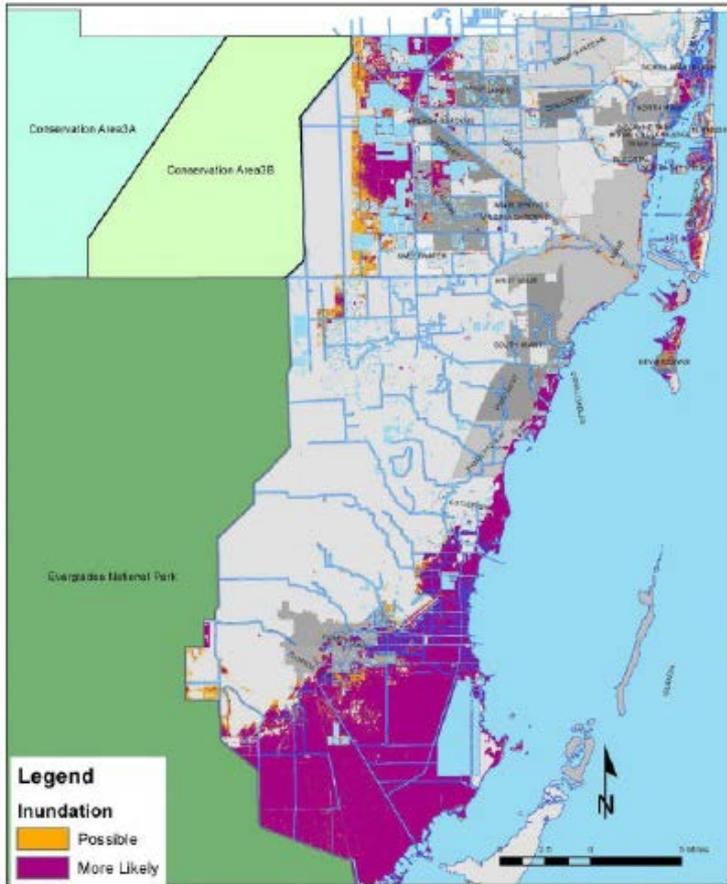


- Community Plans & Policies
- Federal Partners
- Professional Organizations

<http://www.fema.gov/multi-hazard-mitigation-planning>

Integrating Mitigation

How



Cedar Rapids, Iowa, following the Flood of 2008. City of Cedar Rapids



Kings County farmland. Kings County

Mitigation Resources

FEMA Mitigation Planning :

<http://www.fema.gov/multi-hazard-mitigation-planning>

FEMA Hazard Mitigation Assistance:

<http://www.fema.gov/hazard-mitigation-assistance>

FEMA - EPA Memorandum of Agreement:

http://www.epa.gov/dced/fema_moa.htm



Local Mitigation Planning Handbook

January 2013



FEMA

Q&A



<http://www.fema.gov/multi-hazard-mitigation-planning>



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