



# Second Annual National Emergency Management Preparedness Summit

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### **SPEAKERS**

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# **TOPIC**

Hazard Mitigation:

Preventing Damage
Before Disaster Strikes

### **OVERVIEW**

- Definition of hazard mitigation
- Factors shaping future risk
- The planning process
- Potential sources of funding

# DEFINITION OF HAZARD MITIGATION

## What is HAZARD MITIGATION?

Actions taken to reduce or eliminate the long-term risk of hazards to people and property

- Intended to break the cycle of damage, reconstruction, and repeated damage
- Contrasted with immediate preparedness, response and recovery activities



# WHY PLAN?

- Protect lives and property
- Be "disaster ready"
- Leverage funding



# FACTORS SHAPING FUTURE RISK

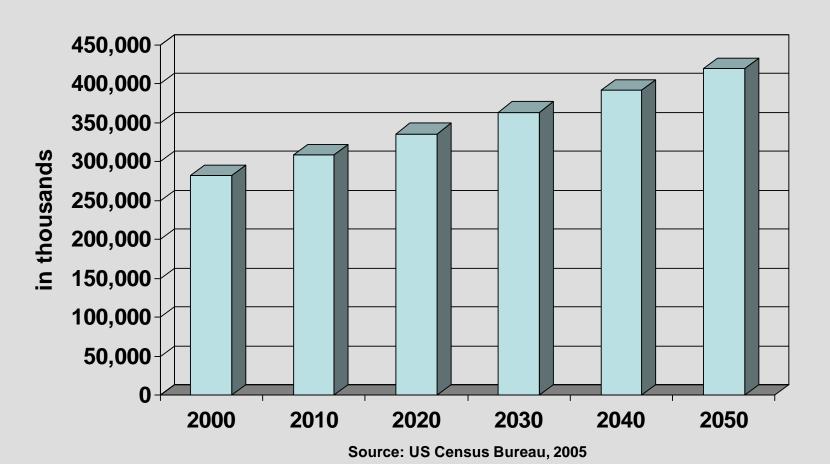
# RISK FACTORS

Human Factors

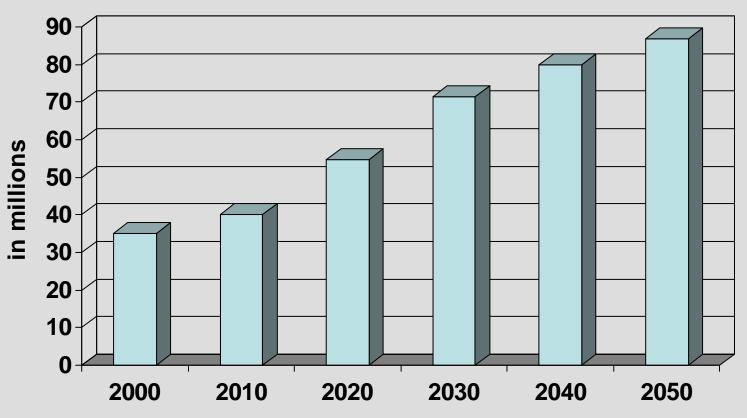
Environmental and Natural Factors

Emerging threats

# US Populaton, 2000 to 2050



# US Population, 65+ Years of Age, 2000 to 2050



Source: 65+ in the United States, US Census Bureau, 2005

# **EMERGING THREATS**



#### POTENTIAL NATURAL HAZARDS

#### Severe Weather

- Hurricanes
- Tropical Storms
- Tornadoes
- Severe Winter Storms



#### Climatic

Drought – water supply disruption

#### Geologic

Ground subsidence

#### Hydrologic

Flooding

### POTENTIAL HUMAN HAZARDS

#### Structure fire

#### Infectious agents

Pandemic influenza

#### **Terrorism**

- Explosive blast
- Chemical, biological, radiological attack

#### Hazardous materials

- External source
- Internal source
  - Biological release
  - Chemical release
  - Radiological release

Energy supply disruption

## THE PLANNING PROCESS

# FEMA REGULATIONS

• Disaster Mitigation Act of 2000 conditions certain FEMA grant funds on having FEMA-approved hazard mitigation plans in place.



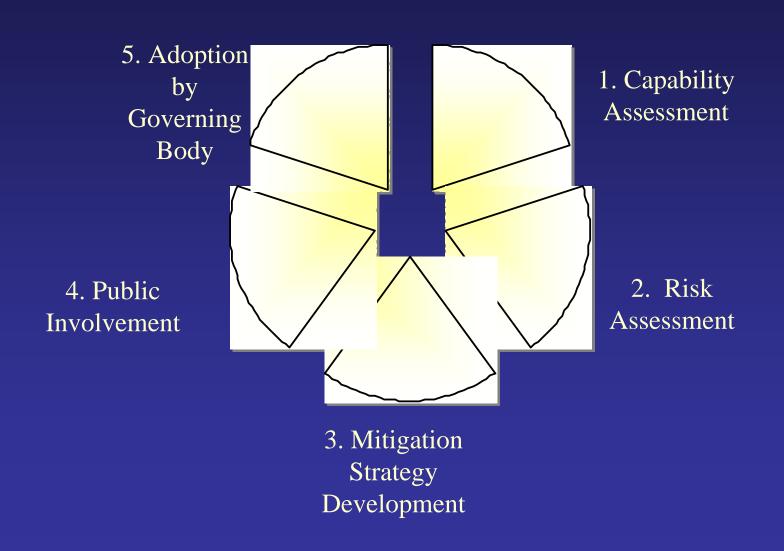
Hazard Mitigation Grant Program

Pre-Disaster Mitigation Grants

#### WHAT A HAZARD MITIGATION PLAN DOES

- Identifies hazards
- Assesses risks and vulnerabilities
- Describes actions to mitigate hazards, risks, and vulnerabilities identified
- Establishes a strategy to implement those actions
- Serves as basis for future grant funding

# 5-STEP PLAN PROCESS



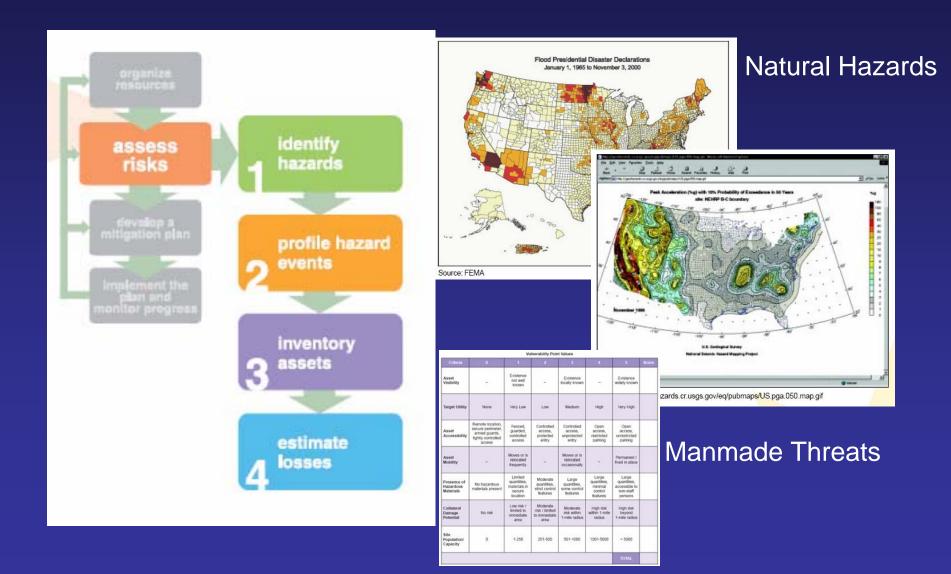
#### STEP 1: CAPABILITY ASSESSMENT

#### Collect information on:

- Current planning efforts
- Building design standards and guidelines

- Building and fire inspection processes
- Mitigation projects

#### STEP 2: RISK ASSESSMENT



#### STEP 3: STRATEGY DEVELOPMENT

- Preventive measures
- Property protection
- Emergency service measures
- Structural projects
- Natural resource protection
- Public information programs
- Insurance protection

#### STEP 4: PUBLIC INVOLVEMENT

- Provide opportunity for the public to make input into the draft plan
- Conduct open public meetings
- Survey customers, staff and stakeholders

#### STEP 5: ADOPTION by GOVERNING BODY

### Plan Approval by

- Emergency Management Team
- Institutional Governing Body
- State
- FEMA



# POTENTIAL SOURCES OF FUNDING

#### POTENTIAL FUNDING SOURCES

# Planning and project funds available on 75/25 cost share basis

- Hazard Mitigation Grant Program
- Pre-Disaster Mitigation Grant Program
- Homeland Security Funding

#### FOR INFORMATION AND HELP

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