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Mitigation Planning 101

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Mitigation Planning 101

Disaster Resistant University

Hazard Mitigation Defined

Hazard Mitigation is any sustained action taken to reduce or eliminate the loss of life or property from the effects of hazards.

Authorized under Section 404 of the Stafford Act.

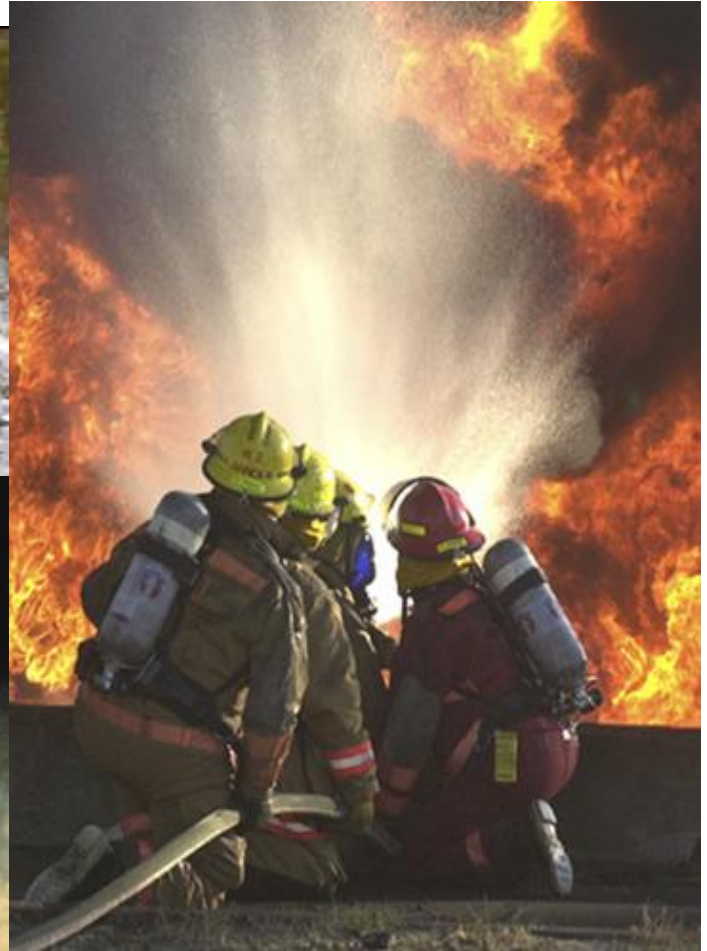


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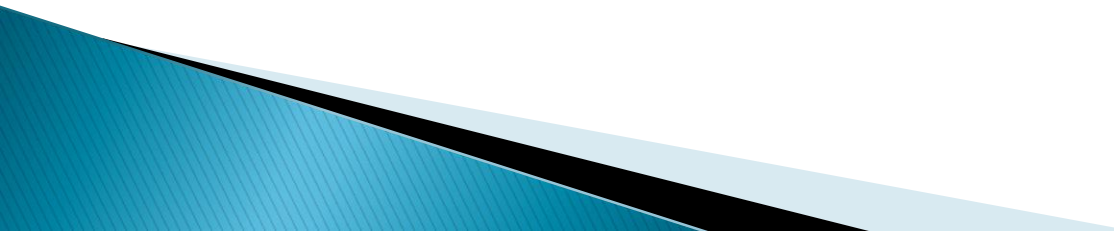
Why Do We Need A Plan?



Why Do We Need A Plan?

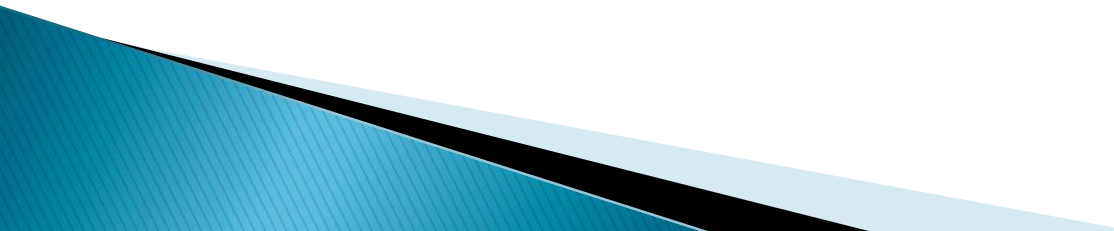


44CFR

- Mitigation Planning
 - The Code of Federal Regulations, 44(CFR)§201 provides guidance for Hazard Mitigation Planning.
 - State and Federal reviews of Plans are based on this guidance for consistency.
- 

Hazard Mitigation Planning

If a local jurisdiction (in this case—a college or university) does not have or participate in a FEMA APPROVED Hazard Mitigation Plan, they are not eligible for funding under the;

- Hazard Mitigation Grant Program (HMGP)
 - Flood Mitigation Assistance (FMA)
 - Pre-Disaster Mitigation (PDM)
 - Repetitive Flood Claims (RFC)
 - Severe Repetitive Loss (SRL)
- 

What does Mitigation Plan Tell Us



- ❖ What hazards present the *greatest risk* to the State and its citizens?

What are the most *effective ways* to reduce those risks?



The Hazard Mitigation Planning Process



Disaster Resistant University

➤ Six Phases in Mitigation Planning

Phase 1 – Organize University Resources

Phase 2 – Risk Assessment

Phase 3 – University Capability Assessment

Phase 4 – Mitigation Strategy

Phase 5 – Plan Adoption

Phase 6 – Plan Implementation

Organize Resources

- Organize University Resources
 - Assessing support for planning activity
 - Build a planning team
 - Engage the public

Planning Team

- Who will be involved?
- How will they be involved?

Planning Process

The best resource available is the People that live and work on campus and in the surrounding community!!!



Risk Assessment

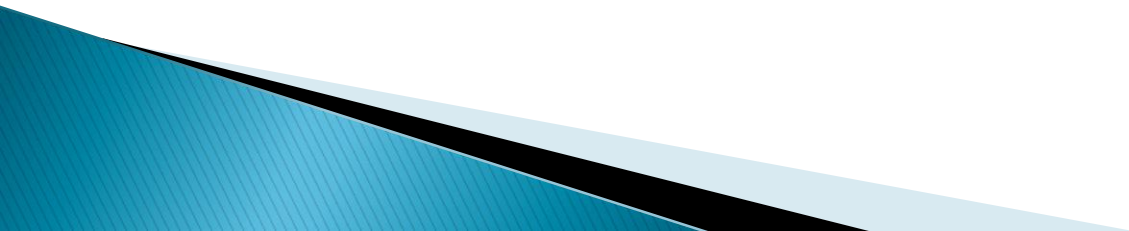
Phase 2 – Risk Assessment has 4 basic tasks:

Task 1 – Identify the hazards

Task 2 – Profile the hazards

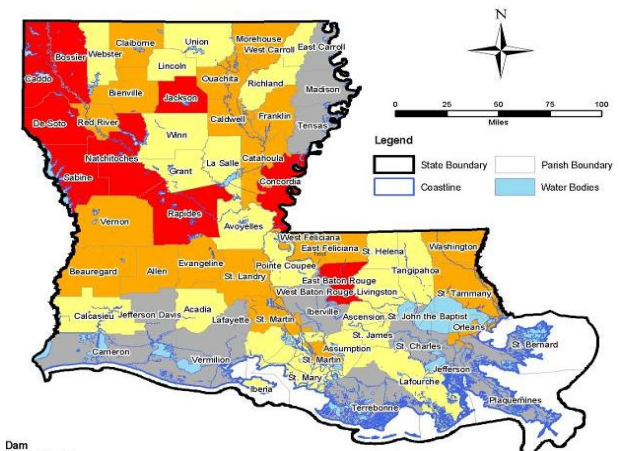
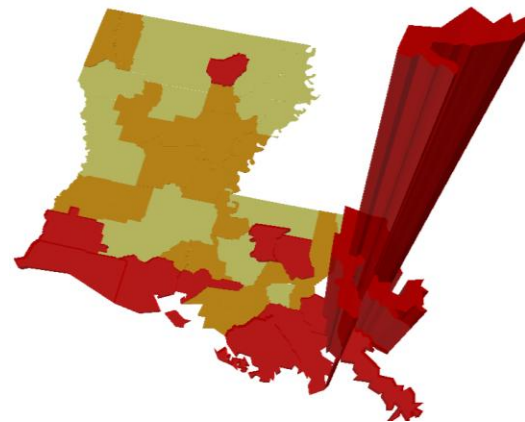
Task 3 – Inventory assets

Task 4 – Estimate potential losses



Identification the Hazards

- ▶ Determine hazards posing the greatest threat to Louisiana.
- ▶ Hazard profiles
 - Affecting specific places
 - Hazards like Floods
 - Affecting the whole state
 - Hazards like High Winds



Identify the Hazards

➤ Identify the Hazards

- Hurricanes
- Tornadoes
- Floods
- Ice Storms
- Storm Surge
- Wildfires
- Subsidence
- Dam & Levee Failure

Profiling the Hazards

➤ Profile the Hazards

- Description
- Location
- Extent (magnitude or severity)
- Previous Occurrences
- Probability of Future Events

Inventory the Assets

➤ Inventory of the Assets

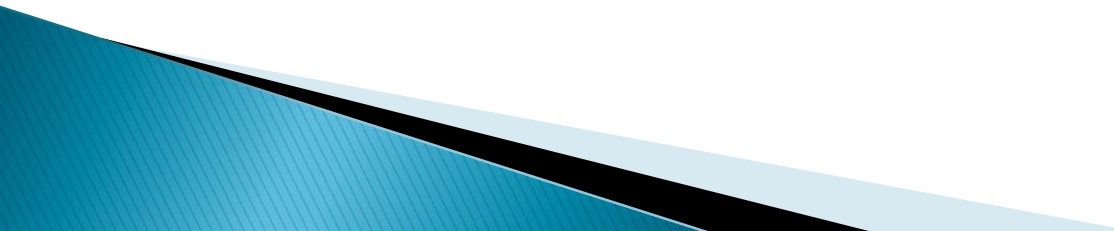
- Population (students)
- Buildings (facilities)
- Infrastructure
- Critical Facilities
- Research Activities

Estimate Potential Losses

- ▶ Estimate Potential Losses
 - Determine extent of damages based on hazard
 - Calculate potential losses from each hazard

University Capability

Phase 3 – University Capability Assessment

- Existing Plans
 - Studies
 - Reports
 - Ordinances
 - Personnel
- 

Mitigation Strategy

➤ Mitigation Strategy

44 CFR Section 201.6 describes mitigation strategy as providing:

“... the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based upon existing authorities, policies, programs, and resources, and its ability to expand on and improve these existing tools.”

Mitigation Strategy

Phase 4 – Mitigation Strategy

- Goals
- Mitigation Actions

Mitigation Goals

➤ University Goals

- Goals are general guidelines and long-term representations of what the university wants to achieve and are based on the risk assessment findings.

Mitigation Actions

➤ Mitigation Actions

Step 1 – Identify Potential Mitigation Actions

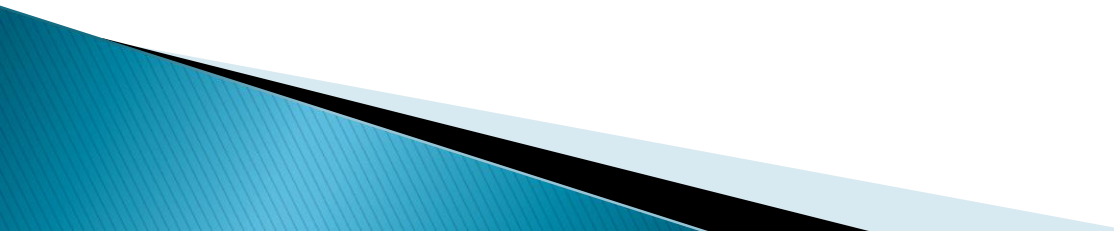
Step 2 – Evaluate the Mitigation Actions

Step 3 – Prioritize the Mitigation Actions

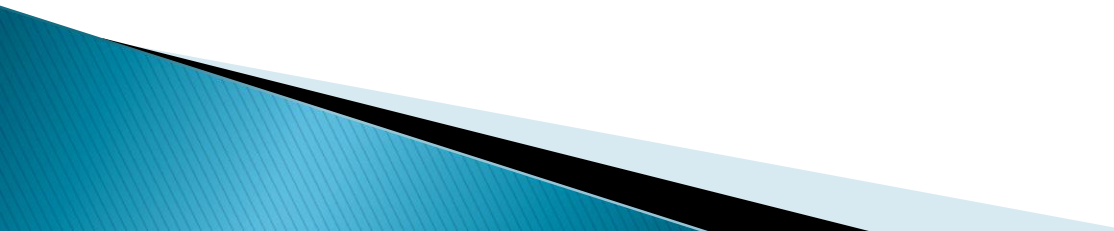
Identifying Mitigation Actions

➤ Step 1 – Identify Mitigation Actions

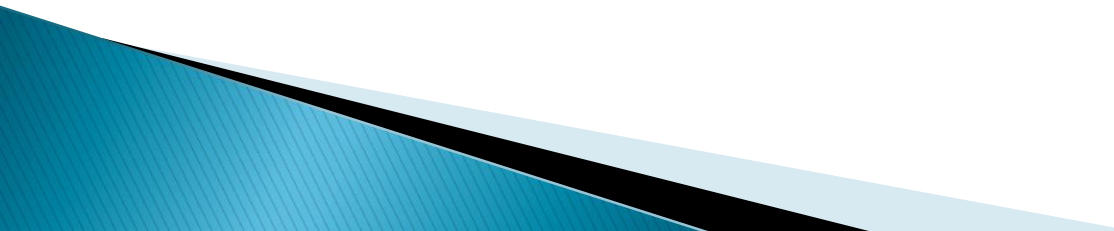
Categories for Mitigation Actions

- Prevention
 - Protect Property
 - Public Education & Awareness
 - Natural Resources Protection
 - Emergency Services Protection
 - Structural Projects
- 

Examples of Actions

- Prevention
Planning, zoning, land development
 - Property Protection
Acquisition, elevation, rebuilding to code
 - Public Education & Awareness
Mass mailings, presentations, mass media
- 

Examples of Actions

- Natural Resource Protection
Erosion control, wetland protection
 - Emergency Services Protection
Protect Critical Facilities, Infrastructure
 - Structural Projects
Retrofits, Floodwalls, Diversions
- 

Retrofitting of Facilities

- ▶ minimizes damage from high winds / flooding

St. James Parish Courthouse Wind Retrofit



Drainage Projects



Increased capacity or deferred maintenance ??



Evaluate the Actions

➤ Step 2 – Evaluate the Actions

Social – socially acceptable

Technical – acceptable & feasible

Administrative – capable of administering

Political – politically acceptable

Legal – authority to implement

Economic – cost effective

Environmental – meet environmental standards



Prioritize the Actions

- Step 3 – Prioritize the Actions
 - Establish a Ranking Criteria
 - Rank the Actions

Adoption

- Phase 5 – Adoption of Mitigation Plan
 - The Plan must be adopted by the legal process of the University

Implementation

- Phase 6 – Implementation of the Plan
 - The Implementation Strategy will serve as a road map for achieving the goals outlined in the plan.
 - This strategy should include
Maintenance & Monitoring
Plan Updating

Maintenance & Monitoring

- Plan Maintenance and Monitoring
 - Continue Public Participation
 - Incorporate into other Planning Efforts
 - Plan Evaluation Criteria

Plan Update

➤ Plan Update

- The Plan should contain a strategy for updating
 - Every Five Years
 - After Major Disasters

QUESTIONS ?