Planning for Resilience in Coastal Louisiana

NCER 2011
Baltimore, Maryland
Leslie Suazo



Resilience

- The ability of human and natural systems to respond to and adapt to change.
- This change may take place over an extended period of time, (e.g. coastal land loss) or may be the result of a single, specific event such as a hurricane, or oil spill

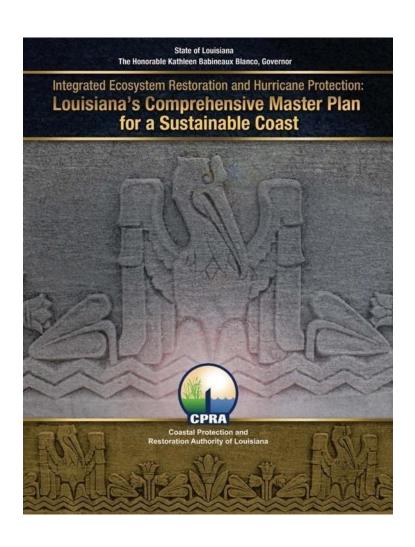


The Challenge

- Address risks associated with continued land loss, sea level rise, and increasing storm frequency and intensity
- Redesign & Redevelop coastal communities for greater resilience
- Maintain unique characteristics of community



Coastal Planning in Louisiana Post-Katrina & Rita



Louisiana's first
 Comprehensive Master
 Plan for a Sustainable
 Coast, adopted in 2007
 acknowledges the need
 for communities to be
 able to recover from and
 adapt to change, i.e. to
 become more resilient

What can communities do to become more resilient

- Planning across geography and across Disciplines:
- Planning
- Architecture
- Engineering
- Provide for Immediate Response and Recovery in cases of catastrophic event, as well as long term efforts to address land loss, sea level rise, etc...



Louisiana Speaks

Recover Sustainably

Grow Smarter

Think Regionally



First Key Strategy Recover Sustainably

"Enable our recovery by adopting the Louisiana Coastal Protection and Restoration Authority's Comprehensive Master Plan for a Sustainable Coast to make us safer from storms, by linking land use, transportation and economic development policies to the CPRA."

Second Key Strategy Grow Smarter

Louisiana Speaks Pattern Book

Provides Guidance for planners and builders to achieve the goal of Safer, Stronger Smarter growth, while preserving cultural and social traditions and the particular aspects of house and community design essential to doing so

An Expanded Role for NGOs and Academia



The University of New Orleans - Center for Hazards Assessment, Response and Technology (UNO-CHART)

Building
Disaster Resilient
Communities

reserve your seat today!

UNO-CHART EXECUTIVE PROGRAM

FRIDAY, APRIL 8, 2011 // 9:00AM - 2:00PM

REGISTRATION/CONTINENTAL BREAKFAST 8:00 - 9:00AM



EXECUTIVE PROGRAM IN ESILIENCE AND RISK MANAGEMENT

EXCLUSIVELY FOR LEADERS IN GOVERNMENT AND BUSINESS IN SOUTHEAST LOUISIANA

TO BE HELD AT THE LINDY C. BOGGS INTERNATIONAL CONFERENCE CENTER AT THE UNIVERSITY OF NEW ORLEANS // 2045 LAKESHORE DRIVE // NEW ORLEANS, LA 70122 // (504) 280-6680

For more information EARTHEA NANCE // UNO-CHART // (504) 280-5760 // CHART.UNO.EDU



OR (800) 258-8830







Guest Speakers:

DR. GAVIN SMITH, Executive Director, UNC Center for the Study of Natural Hazards and Disasters

DENNIS KNOBLOCH, Former Mayor, City of Valmeyer, IL

JOHN WILSON, Director of Public Safety, Lee County, FL (invited)

This project is funded by FEMA through the Louisiana Governor's Office of Homeland Security & Emergency
Preparedness (GOHSEP). Hazard Mitigation Community Education and Outreach (CEO) grant.

RSVP AT CHART@UNO.EDU BY APRIL 1⁵⁷ TO RESERVE YOUR SEAT!

Gulf of Mexico Alliance Coastal Resilience Index

Community Self-Assessment tool

- Designed to help a community assess its capacity to return to a normal level of functioning after a storm event.
- Can be unitized by a community to address weak spots in disaster response prior to an anticipated event
- Partners include Sea Grant Agencies from Texas, Louisiana Florida, Mississippi & Alabama and NOAA
- Twenty Communities have participated in Self Assessments by 2010. Facilitator training is ongoing

COASTAL RESILIENCE INDEX

"On the road to coastal resilience"



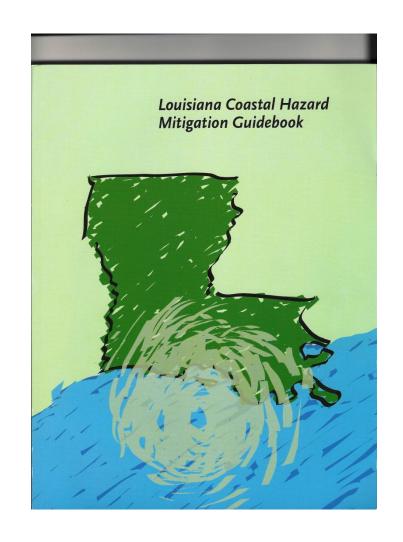
A Community Self-Assessment

Understanding how prepared your community is for a disaster

November 2010

Louisiana Coastal Hazard Mitigation Guidebook

- Bridges the gap between immediatepost disaster response and long-term recovery planning
- Brings together tools, techniques and policies to guide better decision making by coastal planners and elected leaders facing the ongoing threats posed by coastal hazards.



Louisiana Land Use tool Kit

- Project consisting of 5 phases
- Includes a natural resource ordinance component as well as a natural hazards ordinance components.
 - Historic overview and geomorphology
 - Assessment of risk in the study area
 - Tools to guide users through an analysis of common problems and solutions
 - Traditional and modern approaches and practices

Community Strategy:Prevention

- Structural Measures such as Hurricane Protection Systems that reduce risk from storm induced flooding are a necessity in many South La. Communities
 - Build levees, sediment diversions, fortify shorelines of flood prone areas, armor & fill
 - Build and maintain systems so that ecosystems remain dynamic and functional
 - Take steps to avoid induced flooding in low-lying communities



Community Strategy: Adapt to a Changing Environment

- Use Smart Growth Principles
 - Adopt and enforce appropriate land use and zoning regulations to ensure the long-term viability of the region
 - Prohibit development in wetland areas and require buffer zones near levees
 - Strictly enforce the National Flood Insurance Program regulations
 - Adopt and Enforce Appropriate Building Codes; Elevate,
 Retrofit or Buy Out Structures

Louisiana's 2012 Coastal Master Plan

- Non-Structural Project Measures being evaluated for cost- effectiveness relative to other project types
- Funding for implementation from other identified sources rather than coastal program funding.
- Goal is to link communities to appropriate resources for its particular need
- Resilience principles embedded in planning framework

Framework Development Team































































Questions?

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