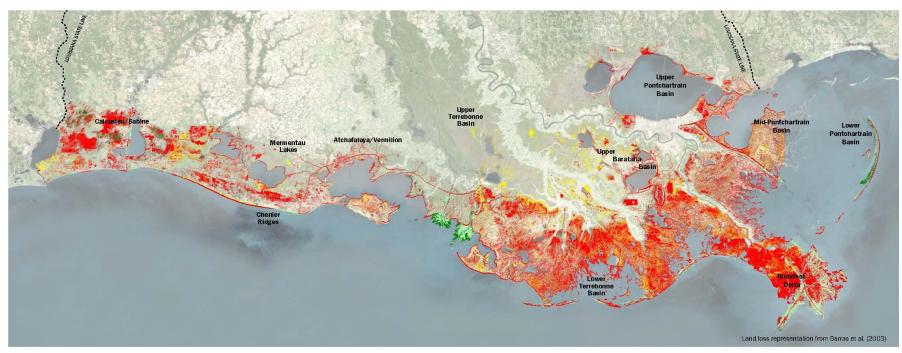
Louisiana's Perspective: Coastal Restoration and LCA Overview

Bren Haase
Louisiana Coastal Protection and Restoration Authority





Coastal Crisis



Land Loss 1932 - 2000 Potential Land Loss 2000 - 2050 Land Gain 1932 - 2000 Predicted Land Gain 2000 - 2050 Based on Coastal Louisiana has lost an average of 34 square miles of land, primarily marsh, per year for the last 50 years. From 1932 ic 2000 coastal Louisiana has lost an average of 34 square miles of land, ropingly marsh, per year for the last 50 years. From 1932 ic 2000 coastal Louisiana has lost 50 years. From 1932 ic 2000 coastal Louisiana has lost 50 years. From 1932 ic 2000 coastal Louisiana has lost 50 years. From 1932 ic 2000 coastal Louisiana has lost 50 years. From 1932 ic 2000 coastal Louisiana caccunited for an estimated 50 years. Further, Louisiana accounted for an estimated 50 years. Further, Louisiana scounted for an estimated 50 percent of the coastal marsh loss in the lower 48 states during the 1990s.





Early Evolution

Flood Control Act of 1965

- Caernarvon Freshwater Diversion
- Davis Pond Freshwater Diversion

CWPPRA 1990

Multiple small scale projects

LCA 2004/WRDA 2007

Large scale, Near-term critical

CIAP, Surplus \$



Katrina and Rita

199 mi² lost in 2 days, 13 years worth of coastal land loss



Master Plan 2007

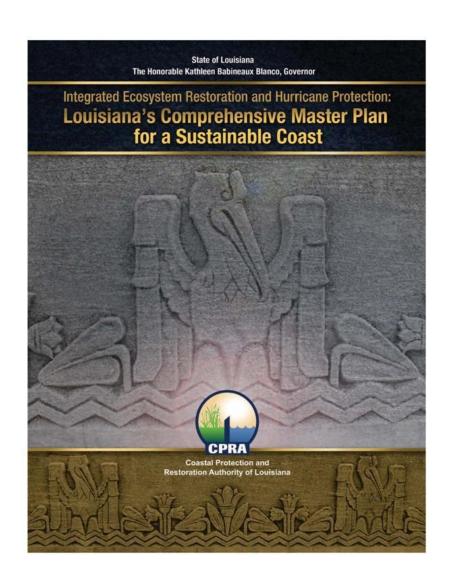
Set goals

- Reduce economic losses
- Sustainable coastal ecosystem
- Habitats to support commercial and recreational activities
- Sustain unique heritage and culture

Conceptual vision

Integrate flood risk reduction and coastal restoration

Living document



Master Plan 2012

Comprehensive systems approach
What do we want to achieve?
How do we get there? – Projects
Under what circumstances? – Funding, Sea level rise

- Vision
- Decision Criteria, Constraints, and Uncertainties
- Comprehensive Project-effects Models
- Prioritization Tool
- Prioritized Project Portfolios
- Expected Outcomes
- Adaptive Management and Implementation Plan
- Long-term Funding Scenarios

Builds on Other Efforts



Ongoing State/Federal Planning Efforts

- Miss. River Delta Management
- MRGO Ecosystem Restoration
- Southwest Coastal Study
- Donaldsonville to the Gulf
- Morganza to the Gulf
- LCA (15 Projects)
- CWPPRA (139 Projects)

Other Initiatives

- Coastal Sustainability Studio
- Dutch Perspective
- LA Speaks
- New Framework
- Envisioning the Future
- Drawing LA's New Map

• 2007 CPRA Master Plan

- Coast 2050
- LCA

Previous Planning Efforts

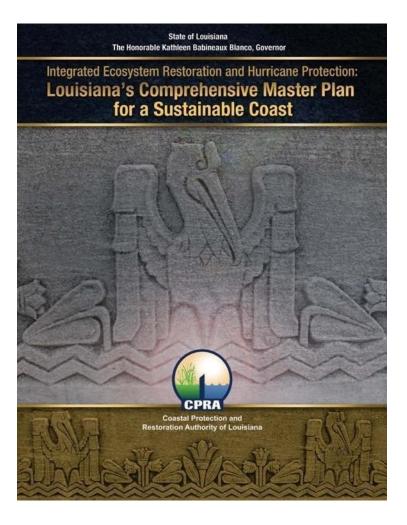
- LACPR
- Others

2012 CPRA Master Plan Update Building on Other Efforts



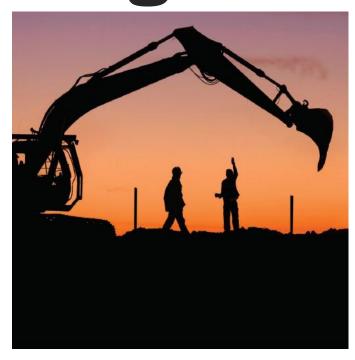


Links Back



- 1. Reduce economic losses from storm-based flooding
- 2. Promote a sustainable coastal ecosystem by harnessing natural system processes
- 3. Provide habitats suitable to support an array of commercial and recreational activities coastwide
- 4. Sustain Louisiana's unique heritage and culture
- 5. Provide a viable working coast to support industry.

Concepts and Broad Strategies

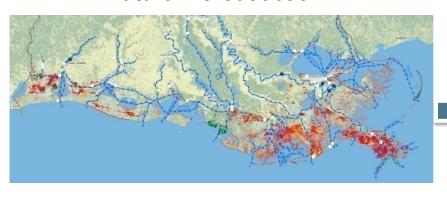




Implementation and Expected Outcomes

Planning Framework

Future without action



A sustainable future



- Severe land loss
- Increasing hurricane flood risk
- Loss of ecosystem services
- Loss of cultural heritage
- Reactive expenditures

- Sustainable coastline & ecosystems
- Resilient communities and assets
- Long-term cost savings through strategic investments

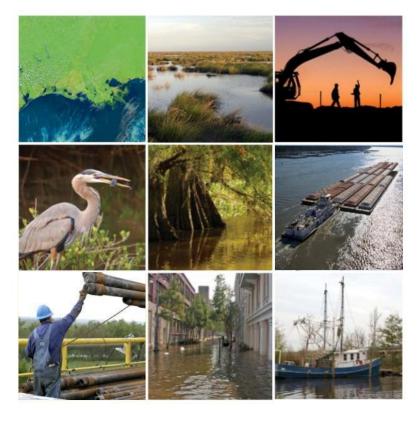
How do we get there?
What should we do now?
How can we adapt to evolving uncertainties and improved information?
What tradeoffs remain?

2012 Master Plan Outputs

- Maps showing ranges of Master Plan outcomes
 - Levels of flood protection
 - Levels of ecosystem services
 - Extent and character of landscape
- Adaptive management plan to guide implementation
 - Maps of near-term projects
 - Maps of potential future project
 - Schedule
 - Costs
 - Expected sources of funding

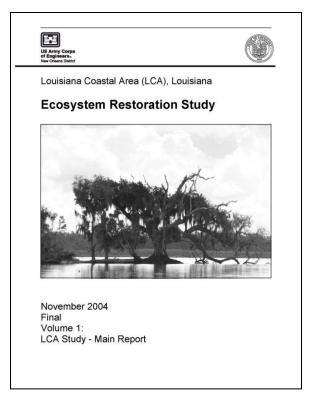






LCA How does LCA fit?

- Integral part of State's overall program
- First landscape scale projects
- Imperative to preserve future opportunity
- Largest in scale and \$
- Complicated



LCA Challenges

State technical lead on USACE projects

- Learning curve
- Collaboration
- Buy off by USACE
- Capacity

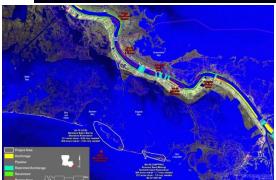


LCA Challenges

Schedule

- Compressed timeframe
- Similar process/requirements
- Stakeholder/agency priorities
- Contract execution
- Dynamic existing condition





LCA Challenges

Legal/Policy

- Implementation guidance
- Legal Interpretation/agreements
- Mid-course changes
- Crediting when, how, what?
- Other funding sources

LCA Success

Schedule met

- Building partnership
- Improved communication



Moving out on additional efforts



Questions?

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www.coastalmasterplan.gov www.lca.gov

