Louisiana's 2012 Coastal Master Plan

Hard Choices, Smart Investments for Our Future

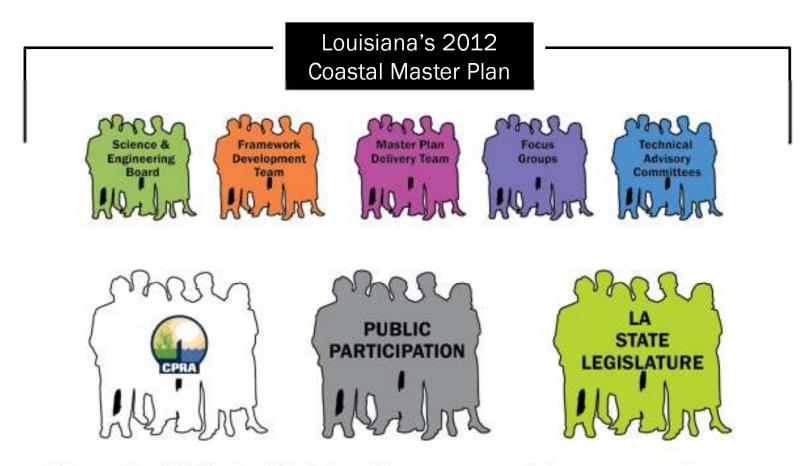
Regional Community Meetings Overview Presentation



Tonight's Agenda

- I. Introductions
- II. Coastal Master Plan Overview
- III. Vision and Services
- IV. Community Exercise Part I
- V. Future Without Action
- VI. Community Exercise Part II
- VII. Where We Are and Next Steps
- VIII. Public Discussions

Who Is Involved?



Nearly 100 individuals are working together to restore and protect our coast.

Ways to Provide Input

Fill out the Community Exercise

Have a conversation with one of the team members

Come to CPRA public meetings

Talk to your local leaders or representatives on the Framework Development Team

Tell your family, friends and co-workers!

Louisiana's 2012 Coastal Master Plan Tell us what you think during the comment period

Send us an email at MasterPlan@la.gov

Request a presentation for your citizen group

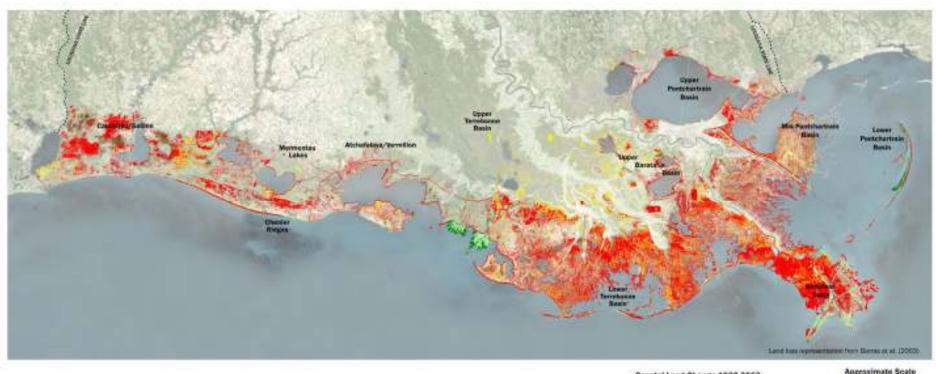
Check the website regularly at coastalmasterplan.la.gov

Coastal Master Plan Overview





Our Coastal Crisis









Wake Up Calls



4 Major Hurricanes in 5 Years

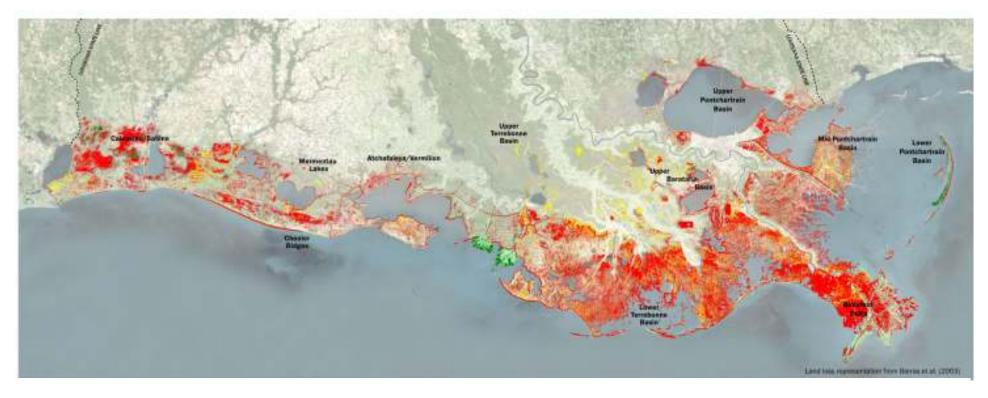


Nation's Largest Oil Spill



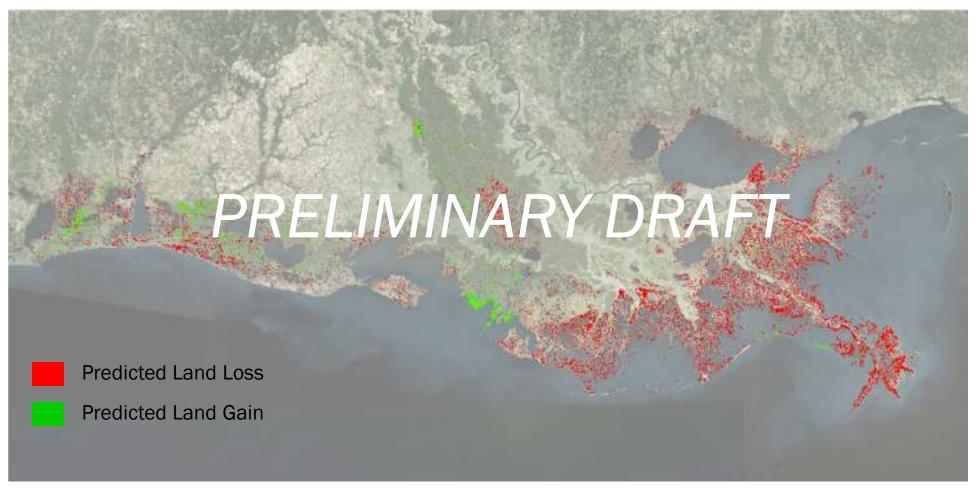
2011 High Water Event

Why haven't we been more effective?



- Too small to address this large-scale problem
- Focused on single projects instead of interconnected ecosystem and communities
- Allowed conflicts to lead to compromises that don't address the needs
- Did not fully understand the tradeoffs

What's at Stake?



Predicted Land-Water Change from 2010-2060

Building on Past and On-Going 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

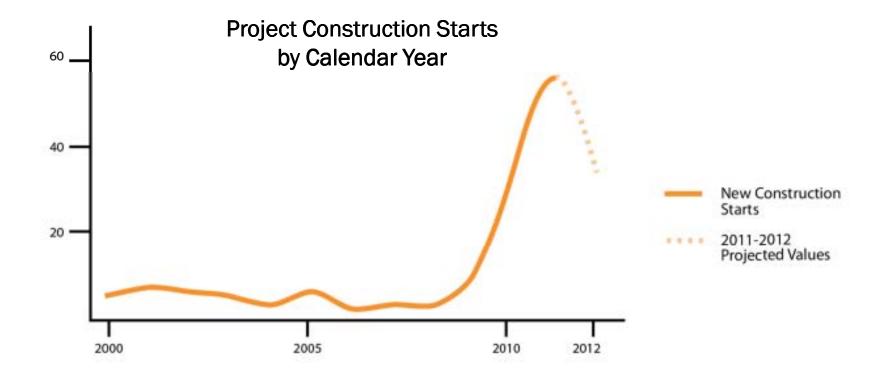
2012 CPRA Master Plan Update Building on Other Efforts





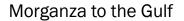
Actions Since 2007 Master Plan

- 1500% increase in program activity
- Expedited project implementation



Progress Since 2007 Master Plan







East Grand Terre



Black Lake Beneficial Use



LPV IHNC Surge Barrier

- 48 projects began new construction since the 2007 Master Plan was approved
- Construction has been on-going on the New Orleans Risk Reduction System

An Opportunity...

Potential Future Funding

- Natural Resources Damage Assessment credits from Deepwater Horizon Oil Spill
- Clean Water Act penalties from spill
- GOMESA funding
- Credits from restoration activities (carbon sequestration, nutrient uptake, etc.)

Current estimates show potential available funding in the range of \$20 to \$50 billion over the next 50 years

An Advanced Approach

- Seeks long-term, sustainable solutions
- Uses science-based tools to objectively compare projects and inform our decisions
- Understands interactions between restoration and protection projects
- Will provide a specific group of integrated projects that work together to protect and restore our coast
- Provides clear expectations of the anticipated outcomes
- Provides an implementation strategy



The 2012 Coastal Master Plan will pave the way for action.

It will be the first of Louisiana's coastal plans to outline a series of specific projects for addressing land loss and reducing flood risks.

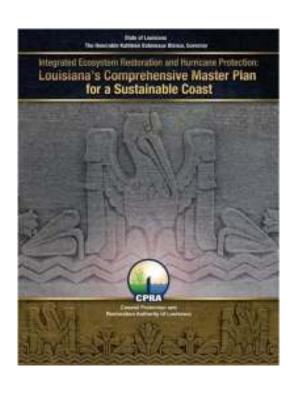
Vision and Services







Building on the 2007 Master Plan



OBJECTIVES

- Reduce economic losses from storm surge based flooding.
- Promote a sustainable coastal ecosystem by harnessing the processes of the natural system.
- Provide habitats suitable to support an array of commercial and recreational activities coast-wide.
- Sustain, to the extent practicable, the unique cultural heritage of coastal Louisiana.
- Promote a viable working coast to support businesses and industries.

Important Terms

Definition - Objectives

One of the five defining statements that express the overall purpose of the 2012 Coastal Master Plan

WHAT DO WE WANT TO ACHIEVE?

Definition - Vision

An articulation of a desirable future state for the coast that meets the objectives and is technically possible. WHAT DO WE WANT THE COAST TO PROVIDE IN THE FUTURE?

Master Plan Outcomes

Previous Outcomes

Acres of wetlands created and/or benefitted

Amount of water/sediment discharge

Miles of shoreline protected

Miles of levee constructed

Number of floodgates constructed

Number of homes elevated

New Outcomes

Availability of natural resources (oysters, alligators, fisheries, etc.)

Economic/production potential

(agriculture tourism: industry, Tetc.)

THE COAST TO

Level of risk reduction from storm surge flooding and waves

Ability to conserve cultural heritage

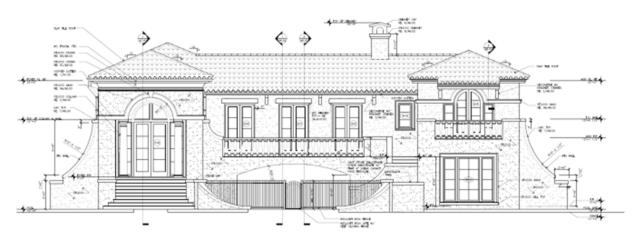
Importance of A Vision

- Past plans guided by broad goals and project-specific objectives
- Provides a common view about what we want to achieve
- A path to focus state investments
- Ability to understand and confront trade-offs



Developing a Vision

is like Building A House





The Vision consists of:



12 Ecosystem
Services



3 Levels of Flood Risk Reduction

Services are...



the reasons to restore and protect our coast



Protection Services are...

The benefits of the coast to provide a level of risk reduction from flooding due to storm surge and waves.



3 Levels of Flood Risk Reduction

Protection Services are provided by...







- Current landscape
- Structural projects (e.g., levees)
- Nonstructural projects (e.g., elevating structures)
- Ecosystem restoration projects
- Any combination of above

Draft Vision for Protection Services

- For Louisiana's 2012 Coastal Master Plan, we are focusing on 3 risk reduction levels
 - 50-Year Risk Reduction Level
 - 100-Year Risk Reduction Level
 - Greater than 100-Year Risk Reduction Level
- The Vision aims to provide a risk reduction level for each coastal community

The Vision does not guarantee that the level of risk reduction will be achievable.

Important Term

100-Year Risk Reduction Means:

Statistically means a 1% chance of flooding from an event in any given year.

A homeowner has a 26% chance of experiencing a storm surge/flood event during a 30 year mortgage.



Draft Vision for Protection Services

50-Year Risk Reduction Level (Rural Parish Areas)

- <1,000 people per square mile</p>
- < 5,000 total population</p>

100-Year Risk Reduction Level (*Urbanized Areas*)

- >1,000 people per square mile
- total population between 5,000 and 75,000

Greater than 100-Year Risk Reduction Level

(Metropolitan Areas)

- >1,000 people per square mile
- > 75,000 total population

What's to Come...

- Our tools are currently analyzing the Future Without Action risk reduction levels.
- It's important to know what levels of risk reduction are currently provided by the landscape and how that will change over the next 50 years.
- Once we have this information, we will be preparing maps to show the predicted future level of protection services.

When available, maps will be posted at coastalmasterplan.la.gov

Ecosystem Services are...

The natural benefits the coast provides to communities and the economy.



Ecosystem Services



Agriculture/ Aquaculture



Alligators



Freshwater Availability



Freshwater Recreational Fisheries



Nature Based Tourism



Oysters



Coastal Wildlife



Saltwater Fisheries



Shrimp



Storm Surge/ Wave Reduction

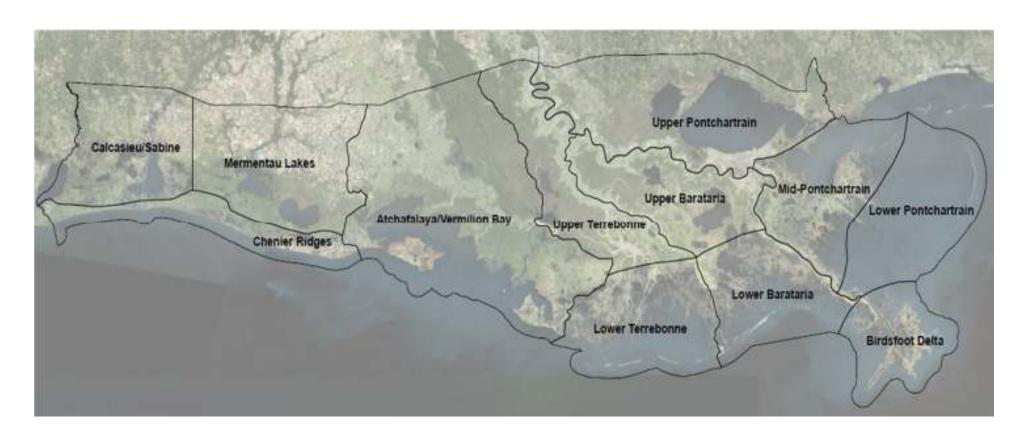


Waterfowl Hunting



Wild Crawfish

Ecosystem Services - 12 Regions



Evaluated over 12 Regions and Coastwide

What's to Come...

- Our tools are currently analyzing the service level under Future Without Action.
- It's important to know what levels of ecosystem services are currently provided by the coast and how that will change over the next 50 years.
- Once we have this information, we will be preparing maps to show the predicted future level of the ecosystem services.

When available, maps will be posted at coastalmasterplan.la.gov

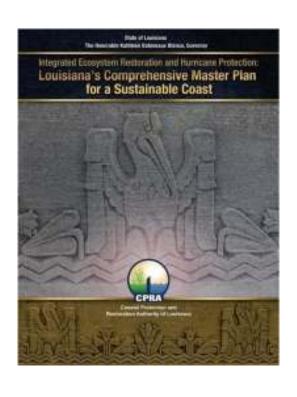
Community Exercise Part I







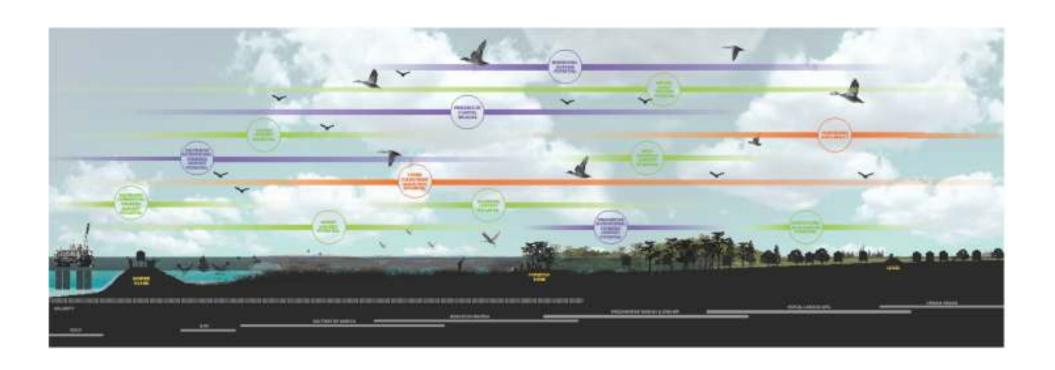
Building on the 2007 Master Plan



OBJECTIVES

- Reduce economic losses from storm surge based flooding.
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Ecosystem Services – Systems Based Approach

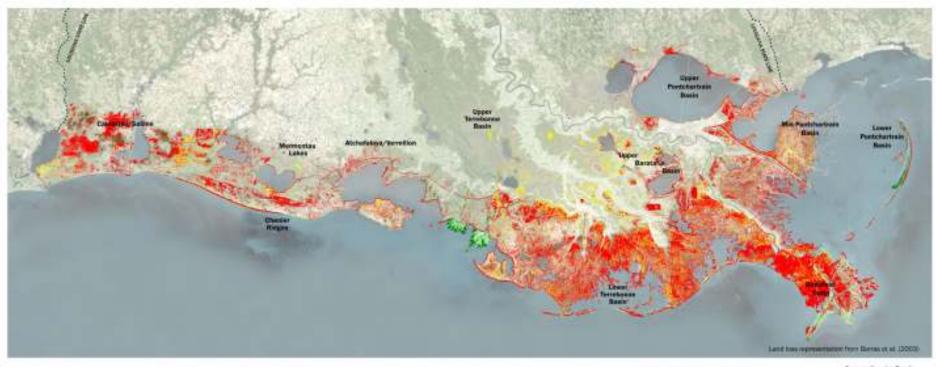


Future Without Action





Estimate of Historic Service Changes





Designates Historic Land Loss

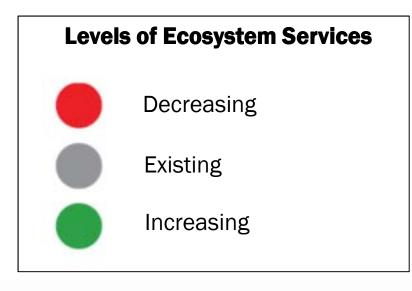




Coastwide Ecosystem Services

Icons denote a service or group of services that share a common habitat.

The color of the icon indicates if the level in increasing, decreasing, or stays the same as existing conditions.



What will these maps look like?

























Example Map



Coastwide Ecosystem Services

This example map shows how ecosystem services may have changed due to historic land loss

Future Without Action



Predicted Land-Water Change from 2010-2060

Future Without Action



Potential Funding for the Future

Current estimates show potential available funding in the range of \$20 to \$50 billion over the next 50 years

- For the plan, we estimate an average of \$400 million to \$1 billion every year for the next 50 years
- This funding level is not guaranteed
- Funding will be spaced out over 50 year period, so projects will not all be built at once
- Total implementation costs of all projects under analysis is approximately \$250 billion

Community Exercise Part II







Make your voice heard!



Tell your friends, family and co-workers to tell us what's most important to them

www.coastalmasterplan.la.gov

Where We Are and Next Steps







Louisiana's 2012 Coastal Master Plan

Project-Specific Planning

Select projects based on individual project effects

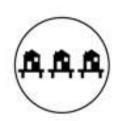
Difficult to compare different types of projects and project interactions



Levee



Wetland Restoration



Non-Structural Protection

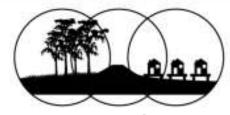
Systems-Based Planning

Predicts how projects interact: we can identify projects that benefit or conflict with each other

Allows comparison of different types of projects

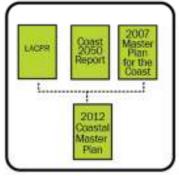
Provides a realistic understanding of what is achievable and sustainable

Depicts the best investments for the State



Integrated System

Master Plan Process



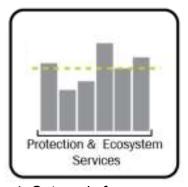
 Review and build on past planning projects.
 What do we need to carry forward?



2. Organize planning approach using systems-based analysis. What does the big picture tell us?



3. Understand future coastal conditions. What is at stake?



4. Set goals for protection and ecosystem services.
What do we want the coast to provide?



5. Evaluate projects. Which projects achieve results?



6. Analyze options?

How should we combine projects to deliver large scale benefits?

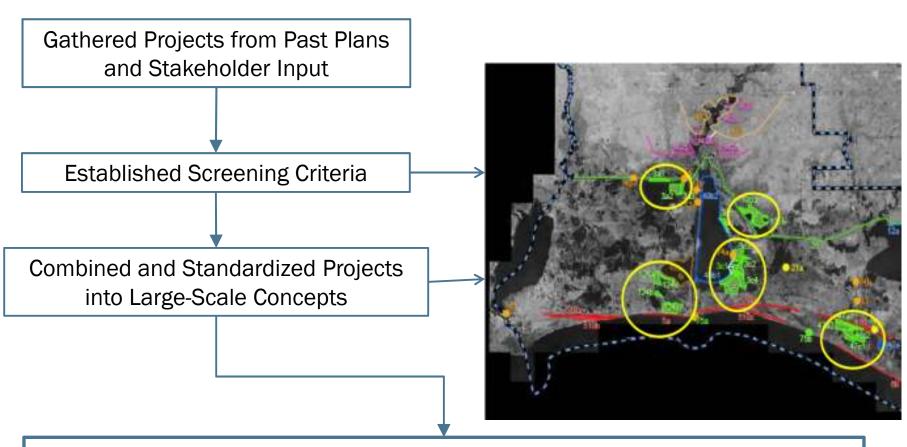


7. Develop recommendations for 2012 Coastal Master Plan. What combination of projects is best?



8. Propose 2012 Coastal Master Plan to LA State Legislature. Our proposal for guiding coastal investments into the future.

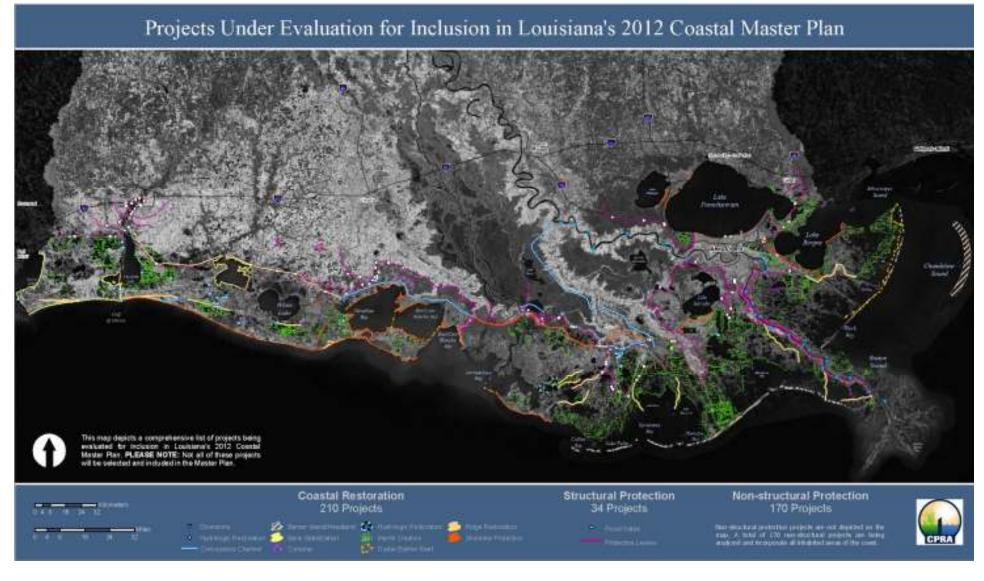
Projects for Analysis



List of Final Projects for Analysis under 2012 Coastal Master Plan

170 Non-Structural Projects34 Structural Projects210 Restoration Projects

TOTAL A14 Projects



Note: Map does not include Non-Structural Projects or Programs

New Science-Based Tools

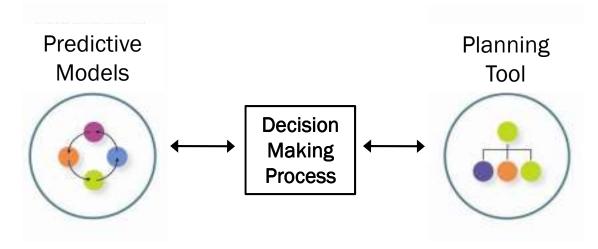
Developed for planning effort to provide technical and scientific information to support the decision-making process

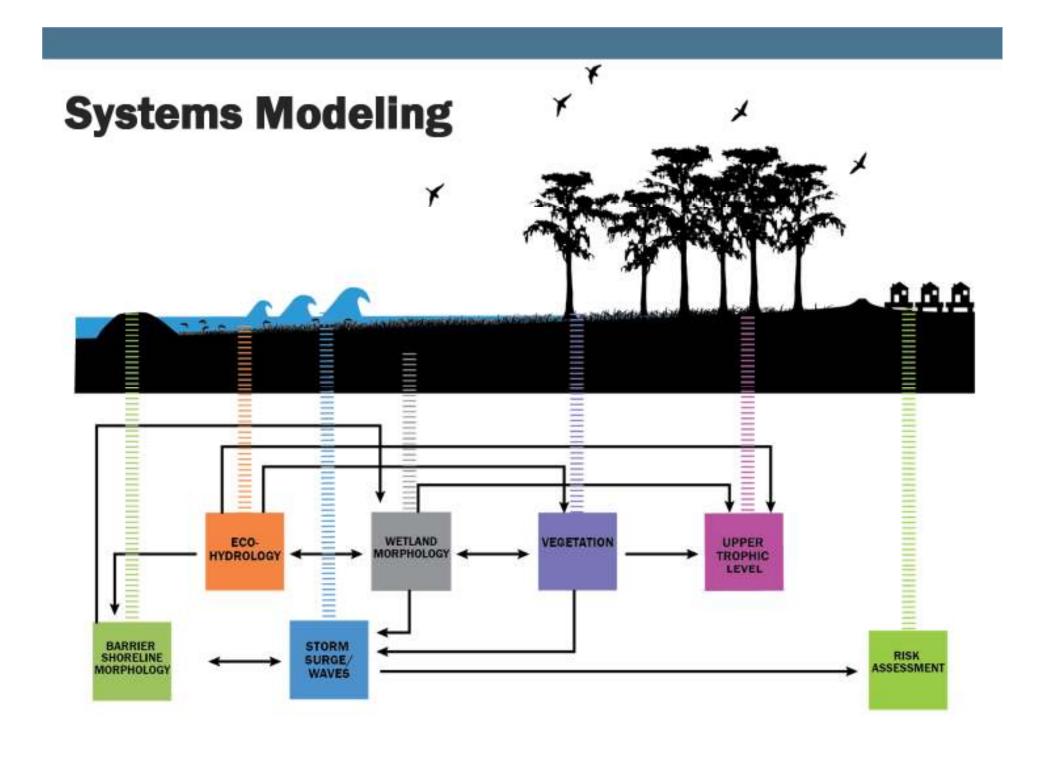
Predictive Models

 Used to predict the future without action and the effects of projects on the coast

Planning Tool

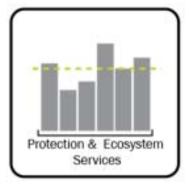
 Used to compare projects fairly and objectively and inform decision making.





Where are we now?

STEP 4



Set goals for protection and ecosystem services.

WHAT DO WE WANT
THE COAST TO
PROVIDE?

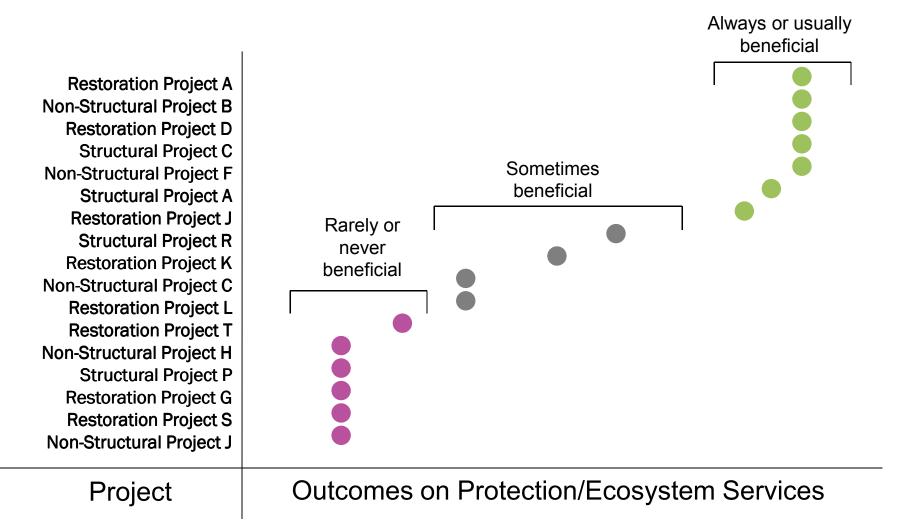
STEP 5



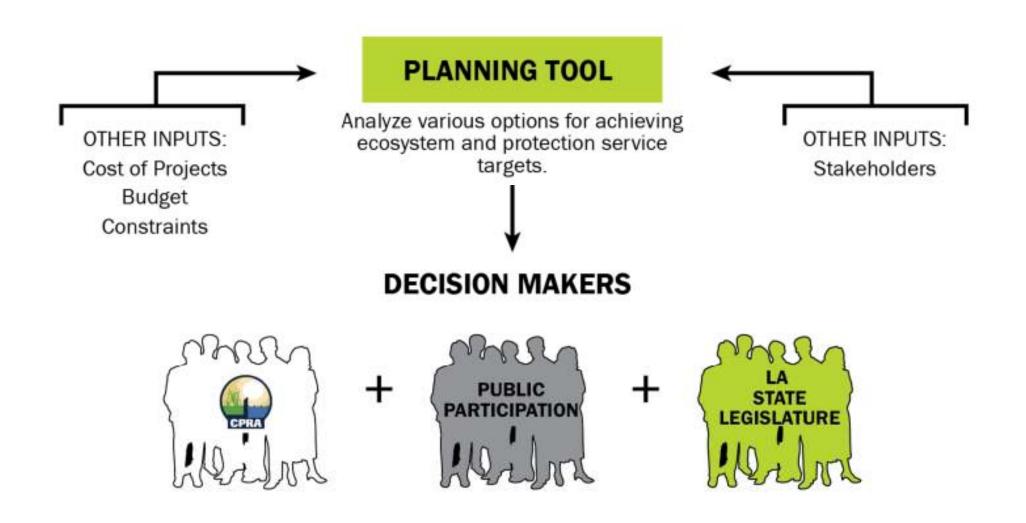
Evaluate projects.

WHICH PROJECTS ACHIEVE RESULTS?

Hundreds of Projects... 16 Different Services Affected Thousands of Possible Combinations



The Decision is Ours



Stay Informed on our Progress

website

CoastalMasterPlan.la.gov

email masterplan@la.gov



Louisiana's 2012 Coastal Master Plan

Public Meeting Schedule

The Coastal Protection and Restoration Authority (CPRA) has announced a series of regional community meetings to share information about Louisiana's 2012 Coastal Master Plan. Over the next few months, we will be developing the draft plan. Now is the time to come offer your ideas and learn about the state's work.

Join us as we make hard choices to secure our coast's future.

28	St. Bernard Parish Council Chambers Chalmette, LA
O9	Larose Civic Center Larose, LA
10	Ward 7 Community Center Chauvin, LA
11 11	Morgan City Auditorium Morgan City, LA
23	Abbeville Branch of Vermilion Parish Library Abbeville, LA
24	Belle Chasse Auditorium Belle Chasse, LA
30	Slidell Branch of St. Tammany Parish Public Library Slidell, LA
AUG 31	Lake Charles Civic Center Lake Charles, LA
SEP 01	Westbank Regional Public Library Harvey, LA
14	Pavilion of Two Sisters at City Park New Orleans, LA

Important Dates

2011

July – Sept Regional Community Meetings

July – Dec Continue Outreach Efforts

Website Updates with New Information

Available to Speak to Citizen Groups

2012

Jan Draft Coastal Master Plan Released

Jan 23 Public Meeting in New Orleans

Jan 24 Public Meeting in Houma

Jan 25 Public Meeting in Lake Charles

Jan – Feb Stakeholder Engagement and Feedback

March Submit Final Plan to LA Legislature

Once approved by the Louisiana Legislature, implementation of this plan will begin.



For more information:

Email MasterPlan@la.gov

Visit coastalmasterplan.la.gov