



2023 COASTAL MASTER PLAN
COMMITTED TO OUR COAST

LOUISIANA'S 2023 COASTAL MASTER PLAN

STUART BROWN



APRIL 19, 2023

[COASTAL.LA.GOV/OUR-PLAN](https://coastal.la.gov/our-plan) | MASTERPLAN@LA.GOV

WHAT IS THE COASTAL MASTER PLAN?

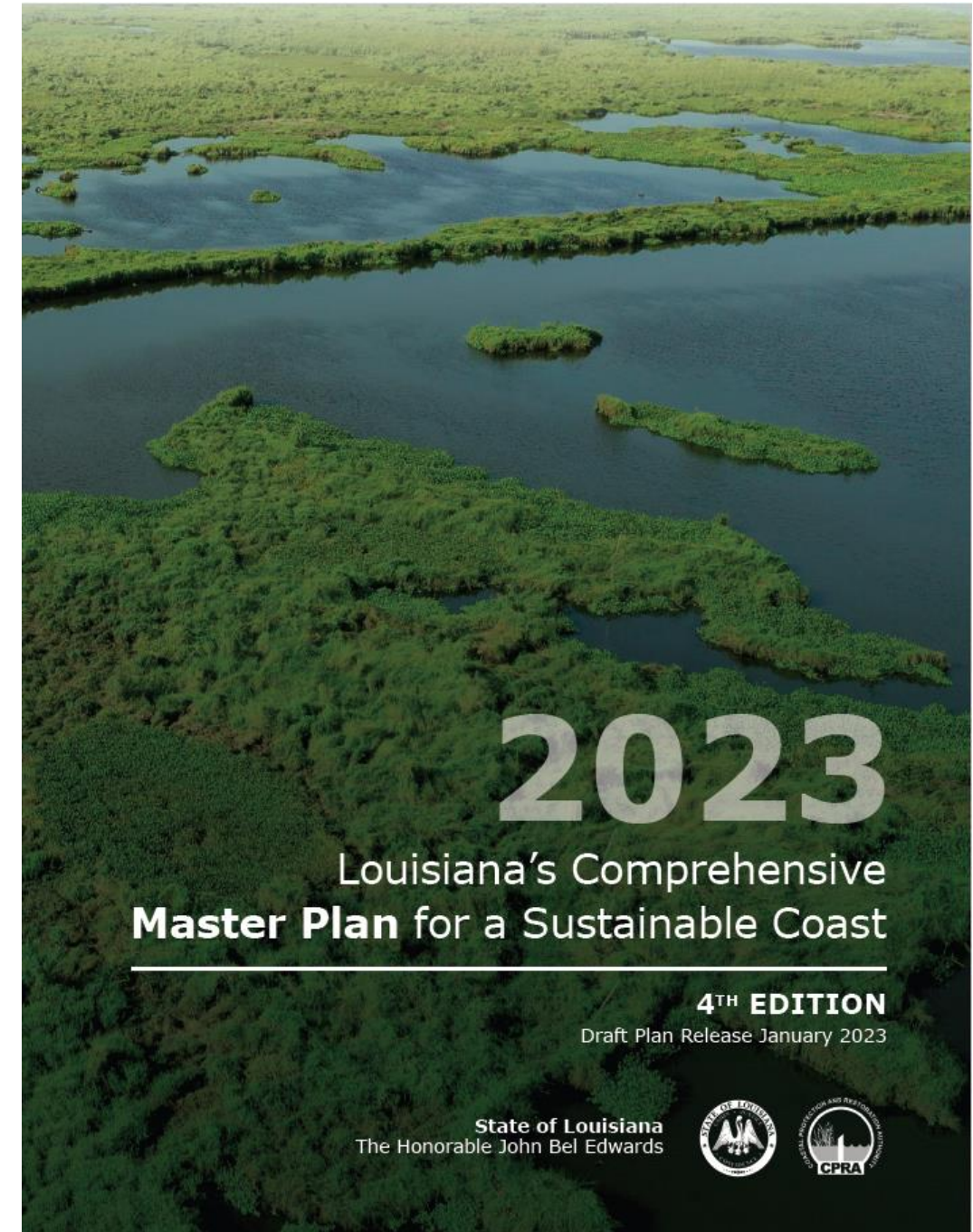
SCIENCE-BASED, STAKEHOLDER INFORMED

- Prioritization effort
 - How can the state spend its money most cost-effectively over the next 50 years to reduce storm surge-based flood risk and restore and maintain coastal wetlands?
- Developed through a process that ensures adaptive management
 - Required by law to be updated every 6 years
- Built on world class science and engineering
- Advances a comprehensive and integrated approach to restoration and risk reduction
- Incorporates extensive public input and review
- Illustrates how people and communities will experience a changing coast to allow preparation and adaptation into the future.

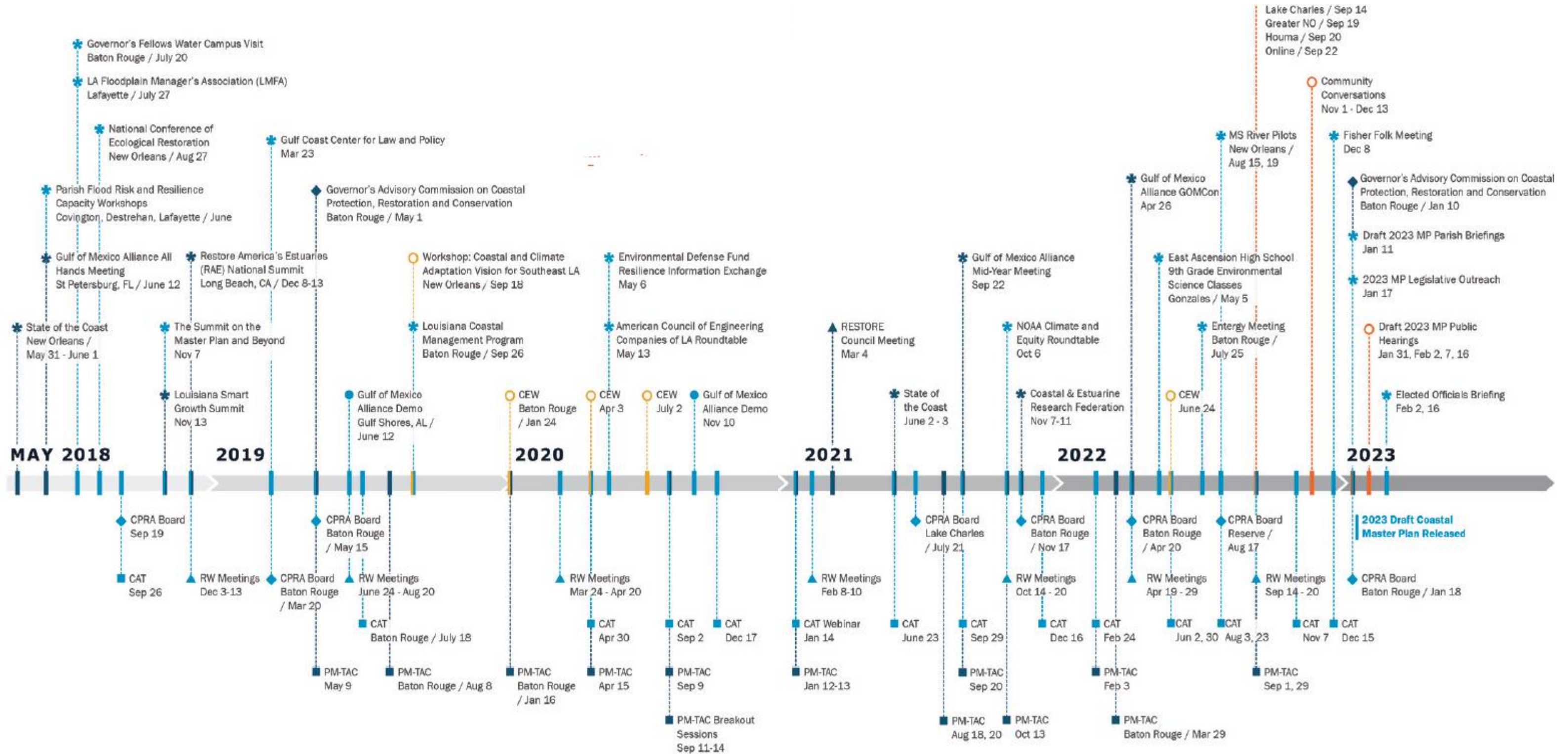


MASTER PLAN SCHEDULE

- Draft Plan Released January 6th
- Public Comment Period January 6th through March 25th
- Public Hearings (4) - January 31st - February 16th
- Revised Plan, incorporating public comments, presented to CPRA Board for approval - April 19th
- Submit Draft Final Plan to Legislature following CPRA Board approval



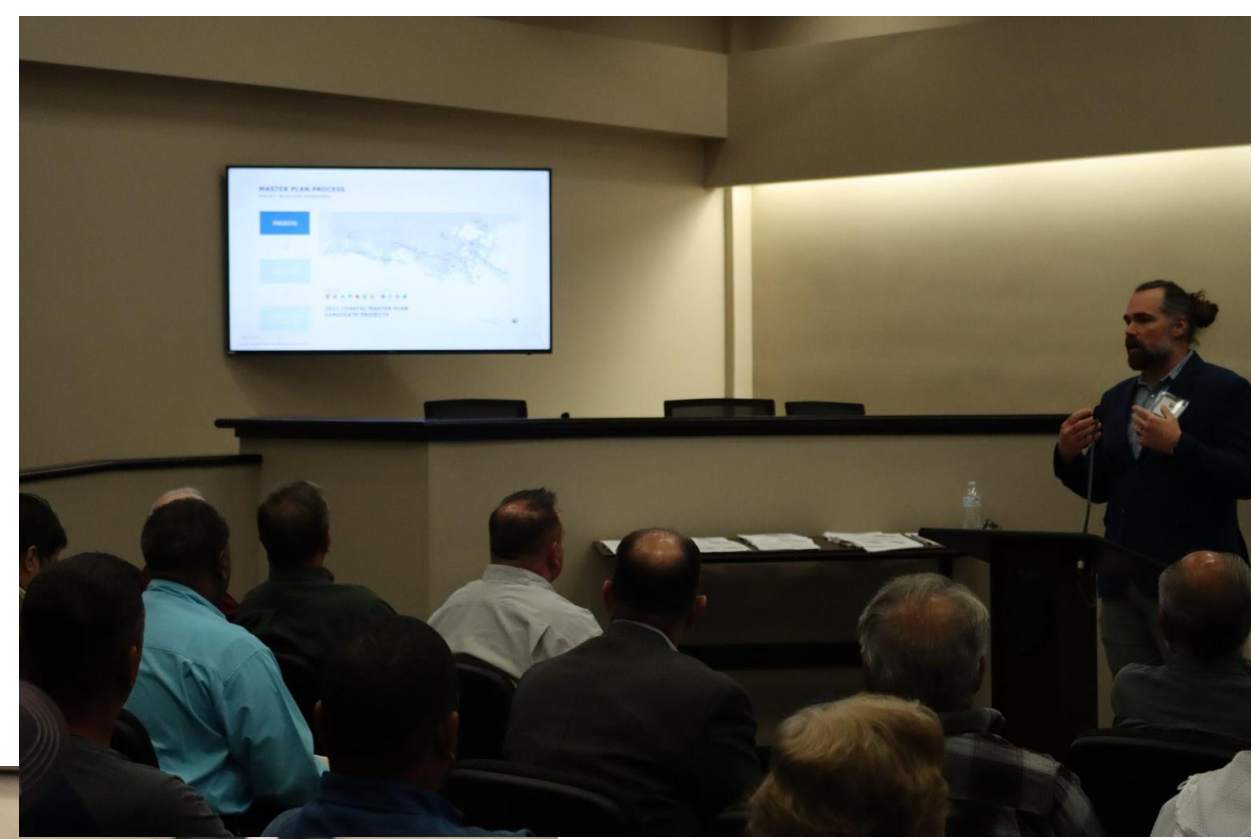
INCORPORATING PUBLIC FEEDBACK



DRAFT PLAN ENGAGEMENT

PUBLIC COMMENT PROCESS

- Public comment period: January 6th – March 25th, 2023
- 4 formal public hearings, additional meetings and informal conversations, elected officials, stakeholder groups, individuals
- Provided >600 printed plans
- Over 6,600 unique users accessed the online plan
- Over 1,800 unique views of the data viewer, 60,000 total views, average engagement time 4m 29s



DRAFT PLAN FEEDBACK

PUBLIC COMMENT PROCESS

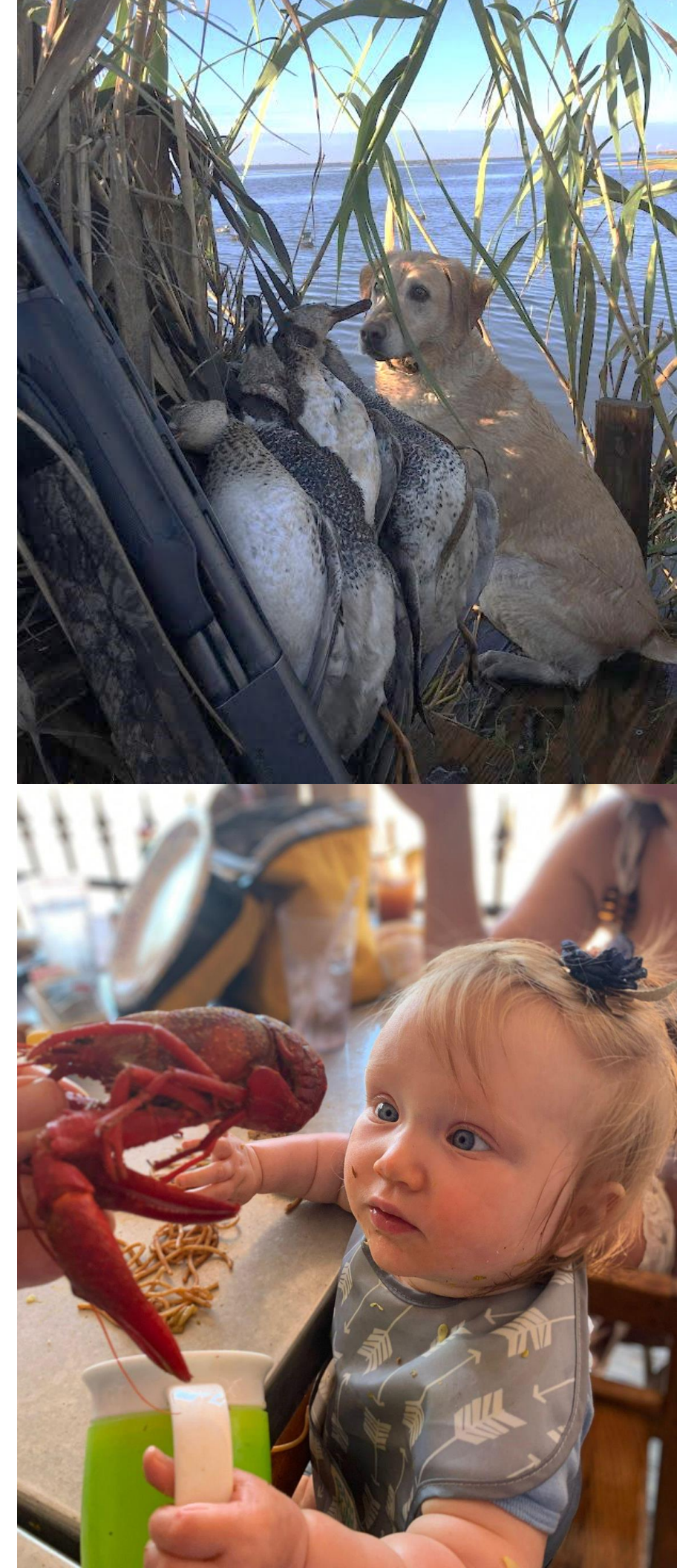
- Received **209** public comments
 - **47** at public meetings
 - **162** via email, web form, mail
- The majority of comments were supportive of the plan
- There were, of course, critical comments. Most were thoughtful and provided useful feedback on:
 - **Revisions to the 2023 Draft**
 - **Improvements to the process as we look forward to 2029**



DRAFT PLAN FEEDBACK

PUBLIC COMMENT THEMES

- Shoreline Protection and Risk Reduction in the Chenier Plain
- Ridge Restoration
- Risk Rating 2.0
- Hypoxia
- Coordination with the Louisiana Watershed Initiative
- Project-Specific Concerns, Project-Level Engagement
- Equity and Environmental Justice
- Outreach and Transparency of the Process
- Addressing the Causes of Climate Change



A scenic view of a coastal waterway. In the foreground, a white boat with a green canopy and a motor is moving through the water, leaving a wake. The water is a deep blue. To the left, there is a large clump of tall, golden-brown reeds. In the background, there is a line of green trees and a body of water under a blue sky with light clouds. A dark green banner with white text is overlaid on the middle of the image.

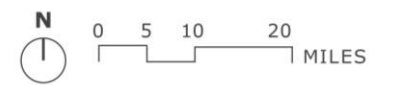
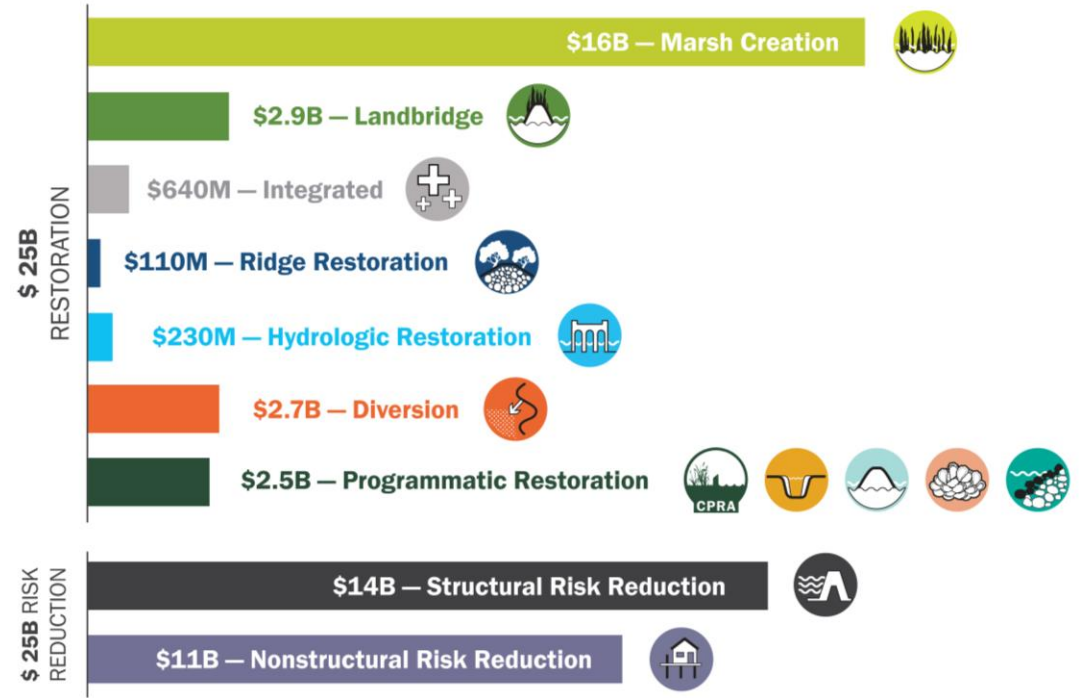
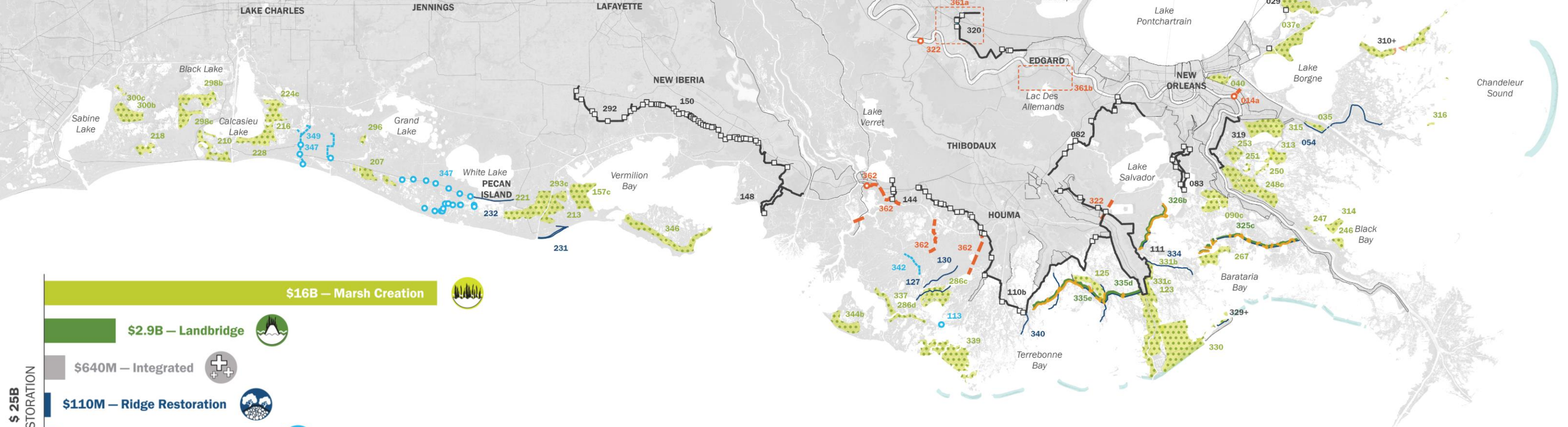
THE 2023 MASTER PLAN

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65 Restoration Projects

12 Structural Risk Reduction Projects

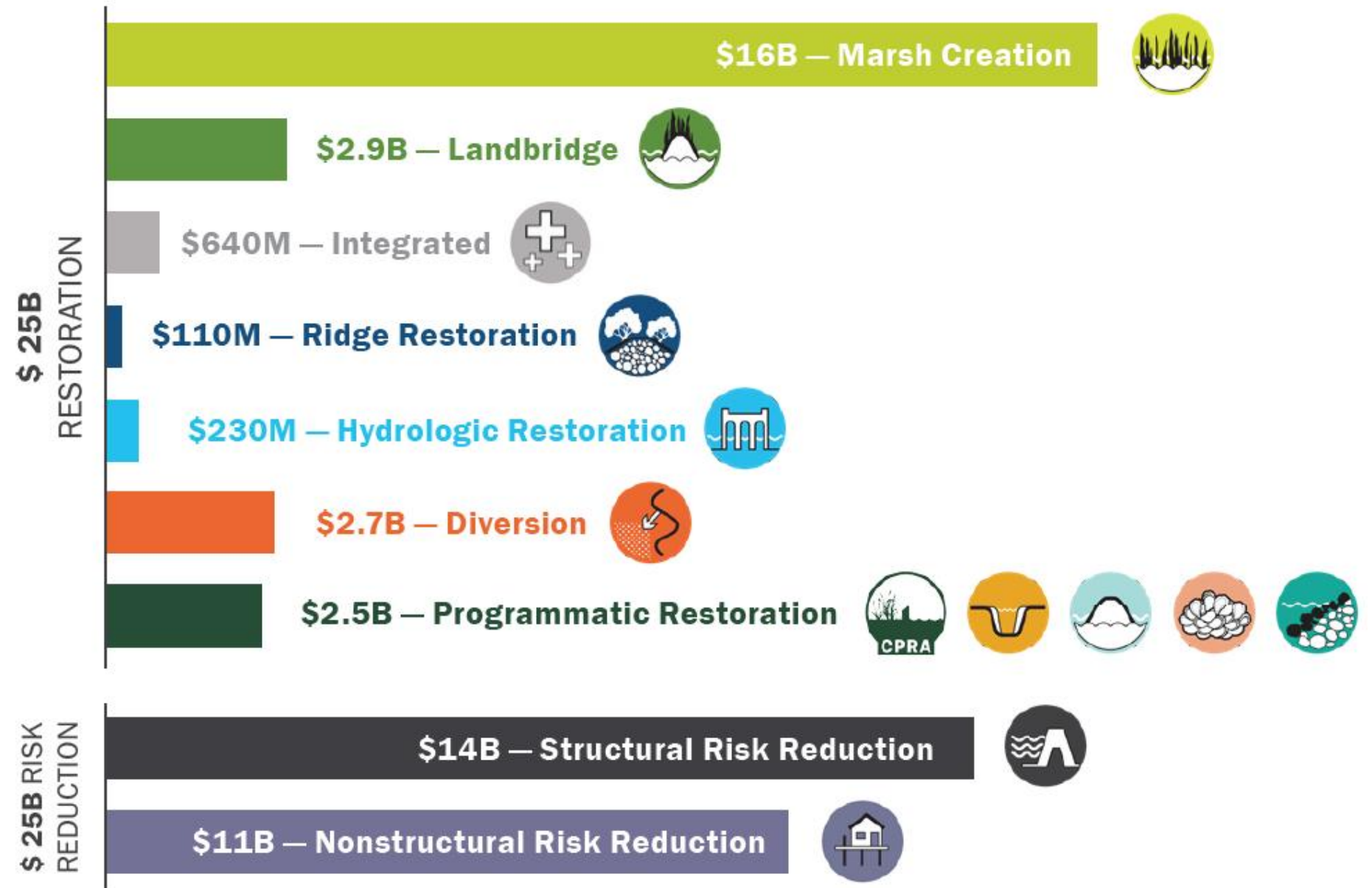
\$11B for Nonstructural Risk Reduction



THE 2023 COASTAL MASTER PLAN

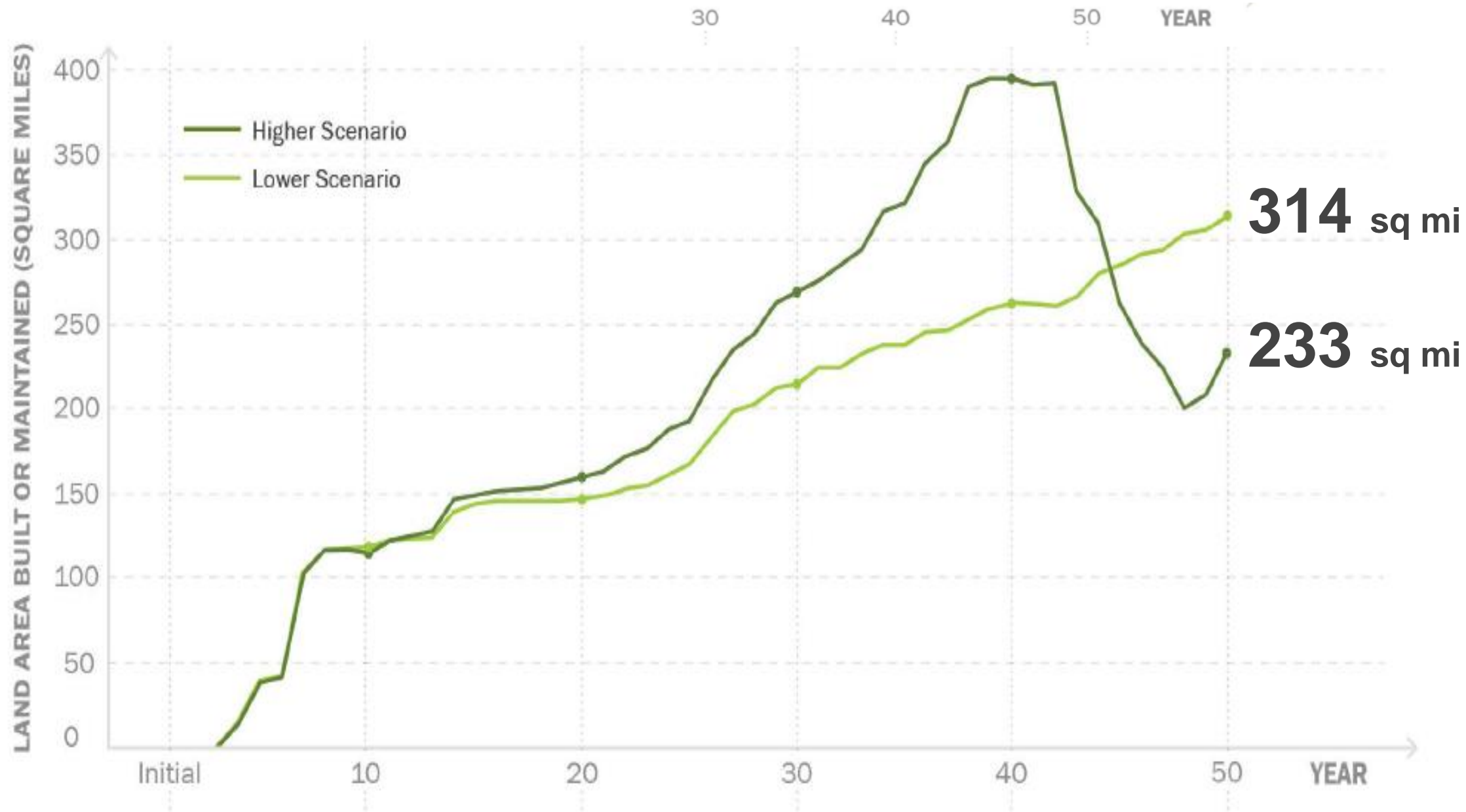
RESTORATION PROJECTS

- Over \$19B in dredging projects
- \$2.5B in Programmatic
 - Barrier Islands, small-scale hydrologic restoration, oyster reefs, shoreline protection
- Structural Risk Reduction
 - 12 projects, \$14 billion
- Nonstructural Risk Reduction
 - \$11.2 billion of the planning budget is identified for nonstructural risk reduction measures, such as elevations, floodproofing, and voluntary acquisition



THE 2023 COASTAL MASTER PLAN

RESTORATION PROJECT BENEFITS



...of land is built or maintained that would have otherwise been lost at Year 50.

THE 2023 COASTAL MASTER PLAN

RISK REDUCTION PROJECTS

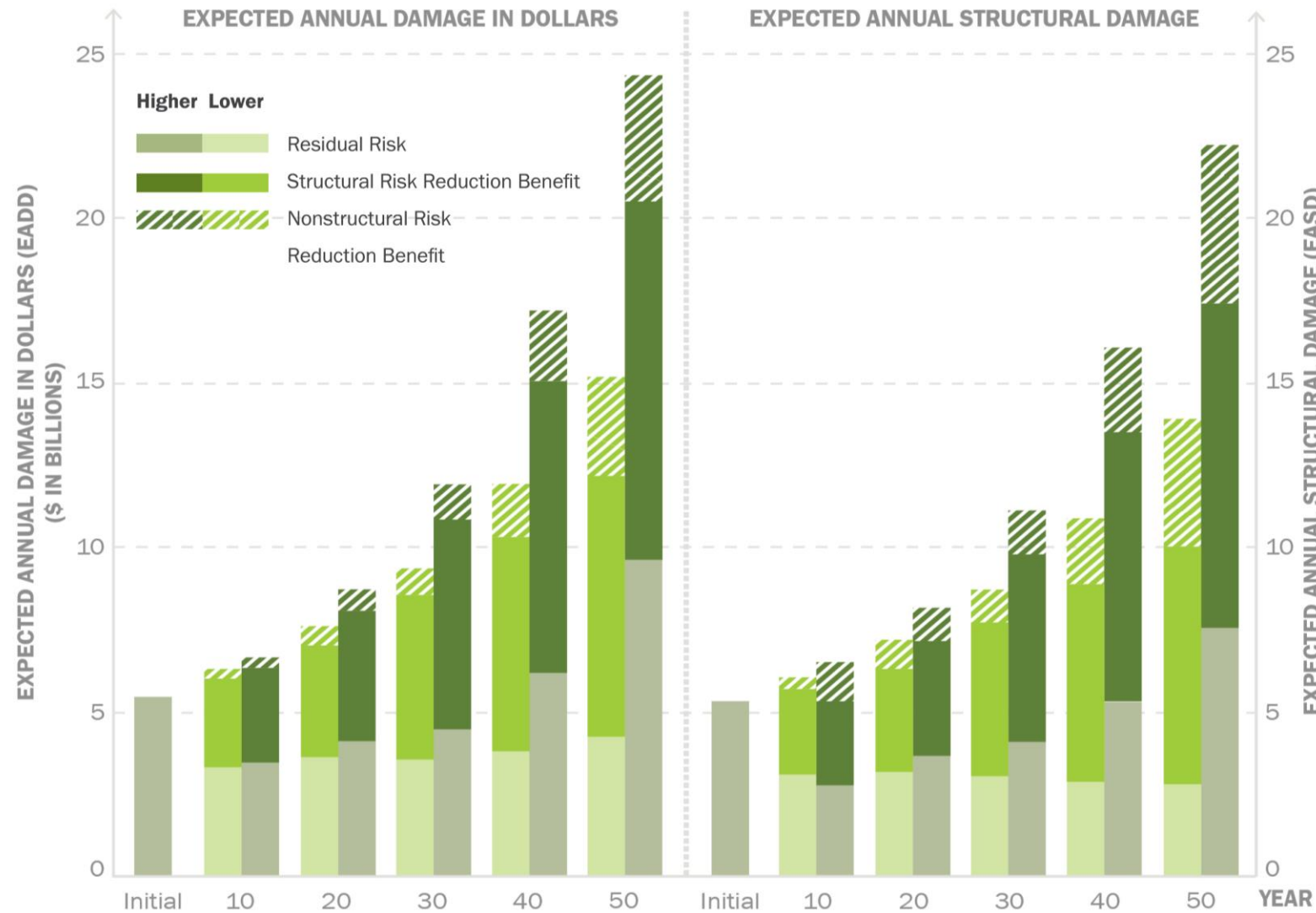


Figure: Amount of Total Annual Expected Damages in Dollars (left) and Structure Equivalents (right), Future With and Without Action, Higher and Lower Scenario.

Risk reduced at Year 50 compared to a future without action...

Lower Scenario

Higher Scenario

70%

60%

\$10.8 B

\$14.6 B

Measured in expected annual damage in dollars (EADD)

Measured in expected annual structural damage (EASD) the plan reduces coastwide risk by up to **78%** under the lower scenario and **65%** under the higher scenario.

THE 2023 COASTAL MASTER PLAN

RISK REDUCTION PROJECTS

This level of investment could mean that in 50 years, under the lower environmental scenario, Louisiana has less flood risk from hurricanes and tropical storms than we do today.

Risk reduced at year 50 compared to a future without action...

Lower Scenario

Higher Scenario

70%

60%

\$10.8 B

\$14.6 B

Measured in expected annual damage in dollars (EADD)

A scenic view of a coastal waterway. In the foreground, a white boat with a green canopy and a motor is moving across the blue water, leaving a white wake. To the left, there is a large clump of tall, golden-brown reeds. The background features a line of green trees and a clear blue sky with light clouds. A dark green banner with white text is overlaid in the center.

BEYOND PROJECTS

BEYOND PROJECTS



The Master Plan is more than a list of projects



Photo courtesy of Lindsey Janies Photography
2023 COASTAL MASTER PLAN

All photos courtesy of Louisiana Sea Grant unless otherwise noted

RESOURCES

COMMUNICATING THE 2023 PLAN

- Master Plan Data Viewer
- Fact Sheets
 - Regional
 - Parish
 - Project
 - Community
 - Community Data Sheets

mpdv.coastal.la.gov

LOUISIANA'S COASTAL MASTER PLAN 2023

GUIDED TOUR EXPLORE Search by address, project, or region

LAND CHANGE	VEGETATION TYPE	FLOOD DEPTH	DAMAGE	PROJECTS
IMPLEMENTATION YEAR: 50				
0 10 20 30 40 50				
Project Name	Project Type	Region	Imp. Y...	
Abbeville and Vicinity	Structural Risk Reduction	Central Coast	27	
Amelia Levee Improvements	Structural Risk Reduction	Terrebonne	25	
Atchafalaya Diversions	Diversion	Terrebonne	8	
Bayou Decade Ridge Restoration	Ridge Restoration	Terrebonne	5	
Bayou L'Ours Ridge Restoration	Ridge Restoration	Barataria	5	

VERMILION PARISH

Parish Location

About the Parish

Vermilion Parish is located in south central Louisiana and includes the communities of Abbeville (parish seat), Delcambre, Erath, Gueydan, Kaplan, and Maurice. The parish is known for its fresh seafood, bountiful agriculture, and a rich history of cultural and eco-tourism. Vermilion Parish is immediately adjacent to the Gulf of Mexico, making it ideal for the numerous companies needed to serve the region's oil and gas industry.

Population: ~46K
Low to Moderate Income Percentage of Population: 43%

This parish includes:

- Agricultural Communities
- Traditional Fishing Communities
- Oil and Gas Communities

Challenges for the Parish

Vermilion Parish faces increased wetland loss over the next 50 years under the lower environmental scenario. In addition, with no further action, the southern portion of the parish faces significantly increased future storm surge-based flood risk where 100-year flood depths increase to 16 feet and above in the areas around Pecan Island and Intercoastal City over the next 50 years (under the lower environmental scenario). Additionally, flood risk increases further inland as storm surge encroaches on communities such as Abbeville and Kaplan.

Map: Land Change, Future With Action, Lower Scenario, Year 50

Map: Flood Depths, Future With Action, 1% Annual Exceedance Probability, Lower Scenario, Year 50

2023 DRAFT COASTAL MASTER PLAN VERMILION PARISH - PAGE 1 OF 2

RESOURCES

COMMUNICATING THE 2023 PLAN

Executive Summary

- Partnering with MRD to translate (Spanish, French, Vietnamese)

Additional Reporting

- High Tide Flooding Report
- Historic Storm Reports



2023 COASTAL MASTER PLAN
AMELIA NEAREST RURAL HEALTH CLINIC DRIVE TIME

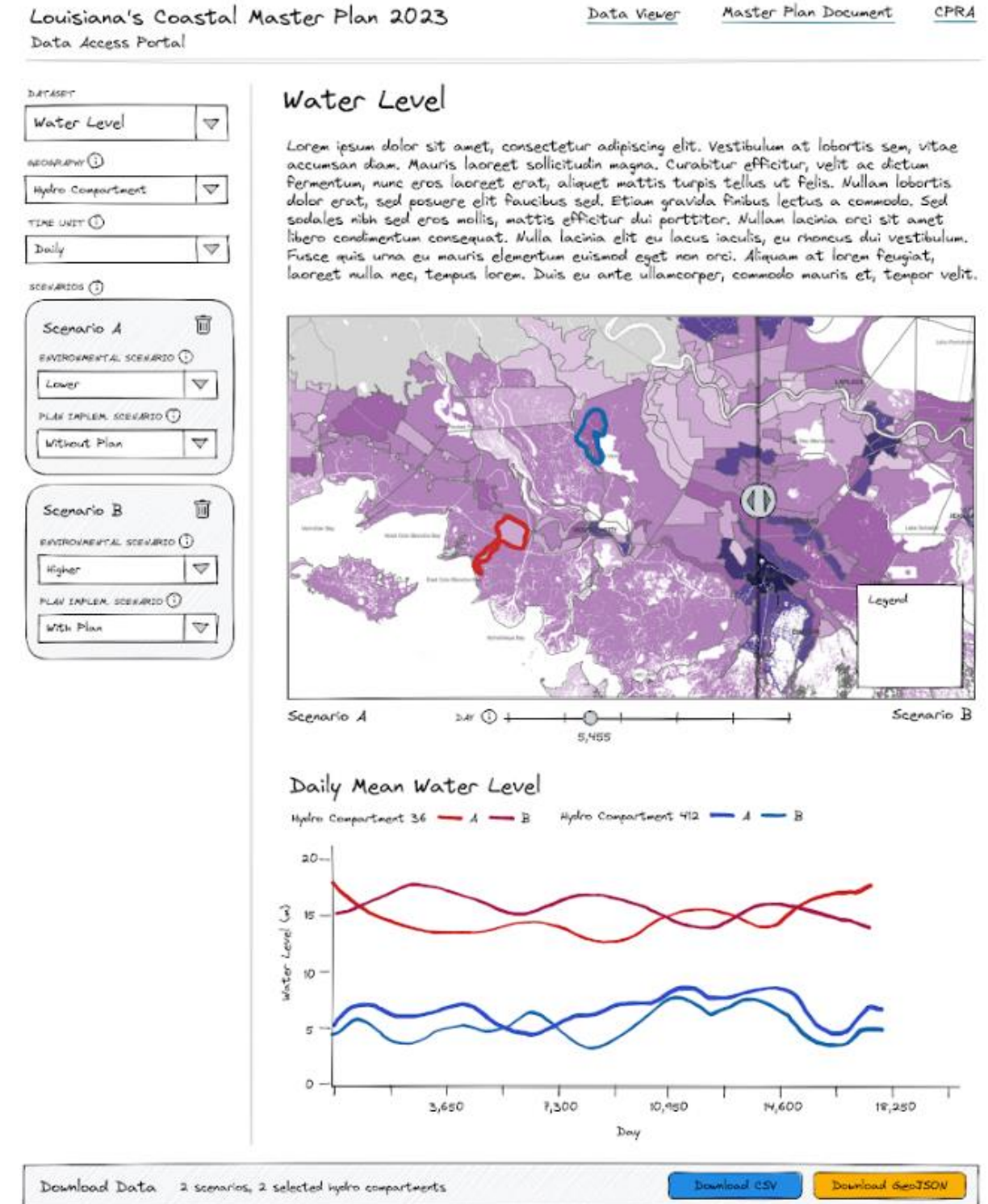


Figure 21. Drive time to nearest rural health clinic in Amelia, Louisiana.

RESOURCES

INFORMATION ACCESSIBILITY

- CPRA is developing a new **Data Access Portal (DAP)** to facilitate data requests
 - Central location for data sets
 - Provide select online data visualizations and image exports
 - by spatial unit
 - by variable(s)
 - Provide for bulk data downloads
 - Provide training on DAP for researchers, academics, others who are interested





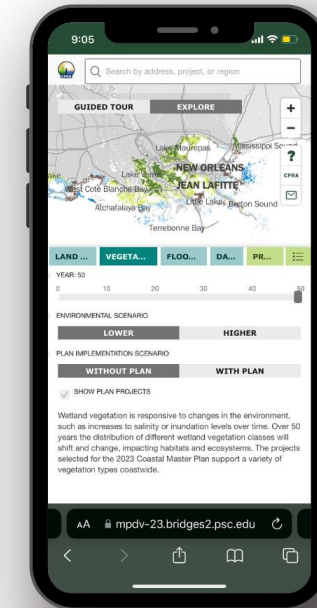
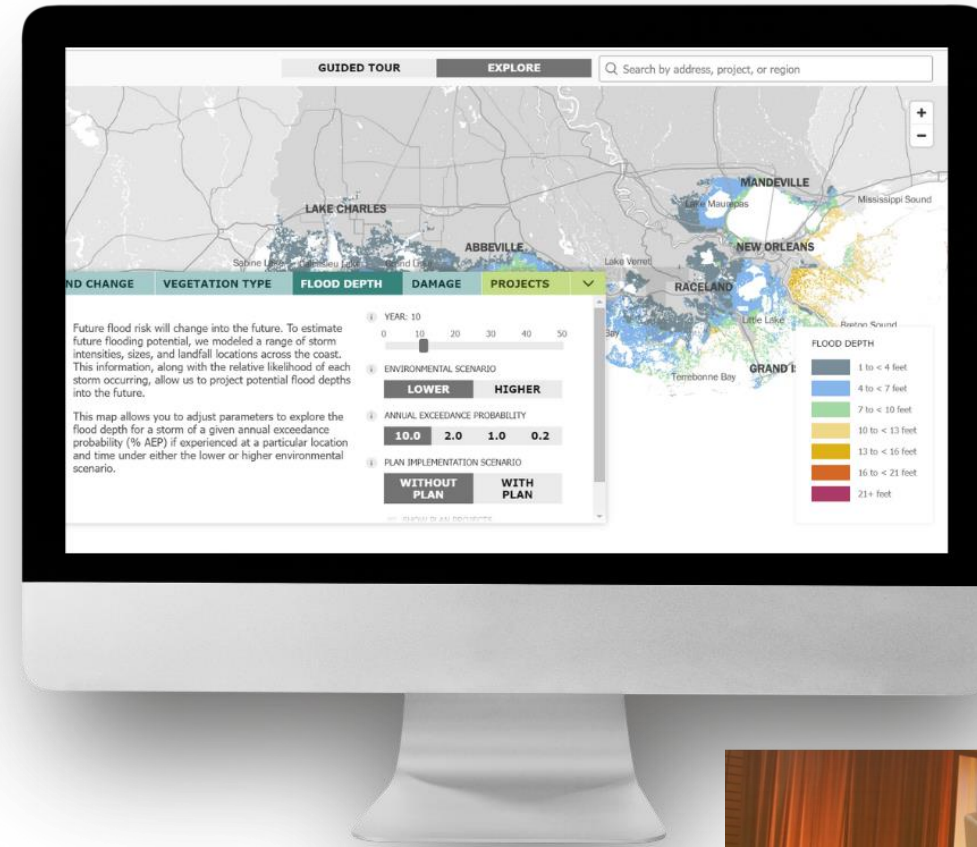
WHAT'S NEXT

CONTINUED OUTREACH

COMMUNICATING THE 2023 PLAN

- Continue giving presentations for stakeholder groups
- Partner with libraries to host master plan materials
- Provide training on MPDV for NGO, other partners, public
- Present aspects of the plan at conferences
 - State of the Coast
 - CERF

mpdv.coastal.la.gov



A scenic landscape featuring a body of water in the foreground. On the left, there is a large clump of tall, golden-brown reeds. In the middle ground, a white boat with a metal frame and a green outboard motor is moving across the water, leaving a white wake. The background consists of a line of green trees under a blue sky with scattered white clouds. A dark green horizontal bar is overlaid across the center of the image, containing the word "QUESTIONS" in white, bold, uppercase letters.

QUESTIONS