



# ***Deepwater Horizon* Natural Resource Damage Assessment**

## **Louisiana Trustee Implementation Group**

2021 Annual Public Meeting

October 27th, 2021



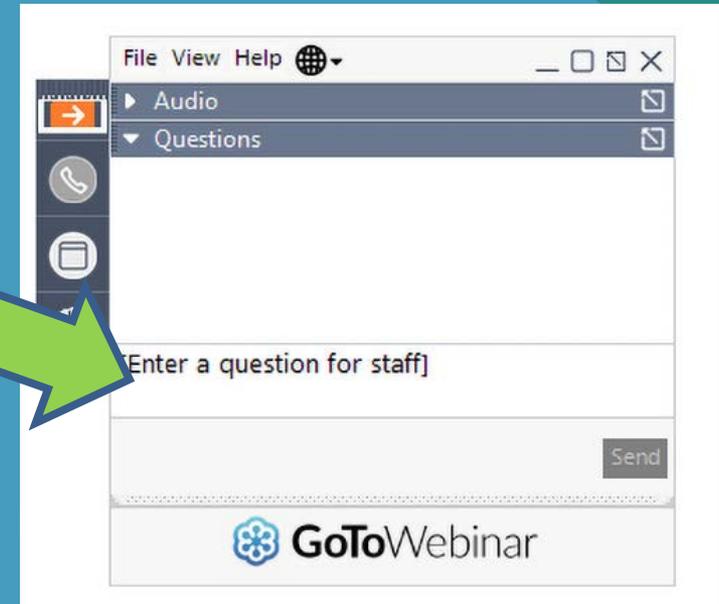
# Agenda

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- **Welcome & Instructions**
- **DWH Overview**
- **LA TIG Overview**
- **LA TIG Restoration Implementation and Planning Update**
- **Your Comments and Questions**

# Webinar Participation

- If you're using a phone, turn off your computer's microphone and speakers.
- When the Comment and Question session starts later, use the "Questions" box to type comments or questions for Trustee staff.





# Meeting Materials

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**All meeting materials will  
be available at:**

- <https://la-dwh.com/>
- <https://www.gulfspillrestoration.noaa.gov/>



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# Sources of DWH Oil Spill Funding

## NRDA

(Natural Resource Damage Assessment)  
Oil Pollution Act

## RESTORE Act

(Resources and Ecosystems  
Sustainability, Tourist  
Opportunities, and Revived  
Economies)  
CWA Civil

## NFWF

(National Fish & Wildlife  
Foundation)  
CWA Criminal



# DWH NRD Settlement

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- **LA TIG will receive \$5 billion for the Deepwater Horizon (DWH) oil spill Natural Resource Damages (NRD)**
- **Settlement funds to be paid by BP on or before April 4 of each year, beginning in 2017 through 2031**
- **Pursuant to the Oil Pollution Act (OPA), the natural resource trustees must use these funds to restore environmental damages caused by the DWH oil spill**

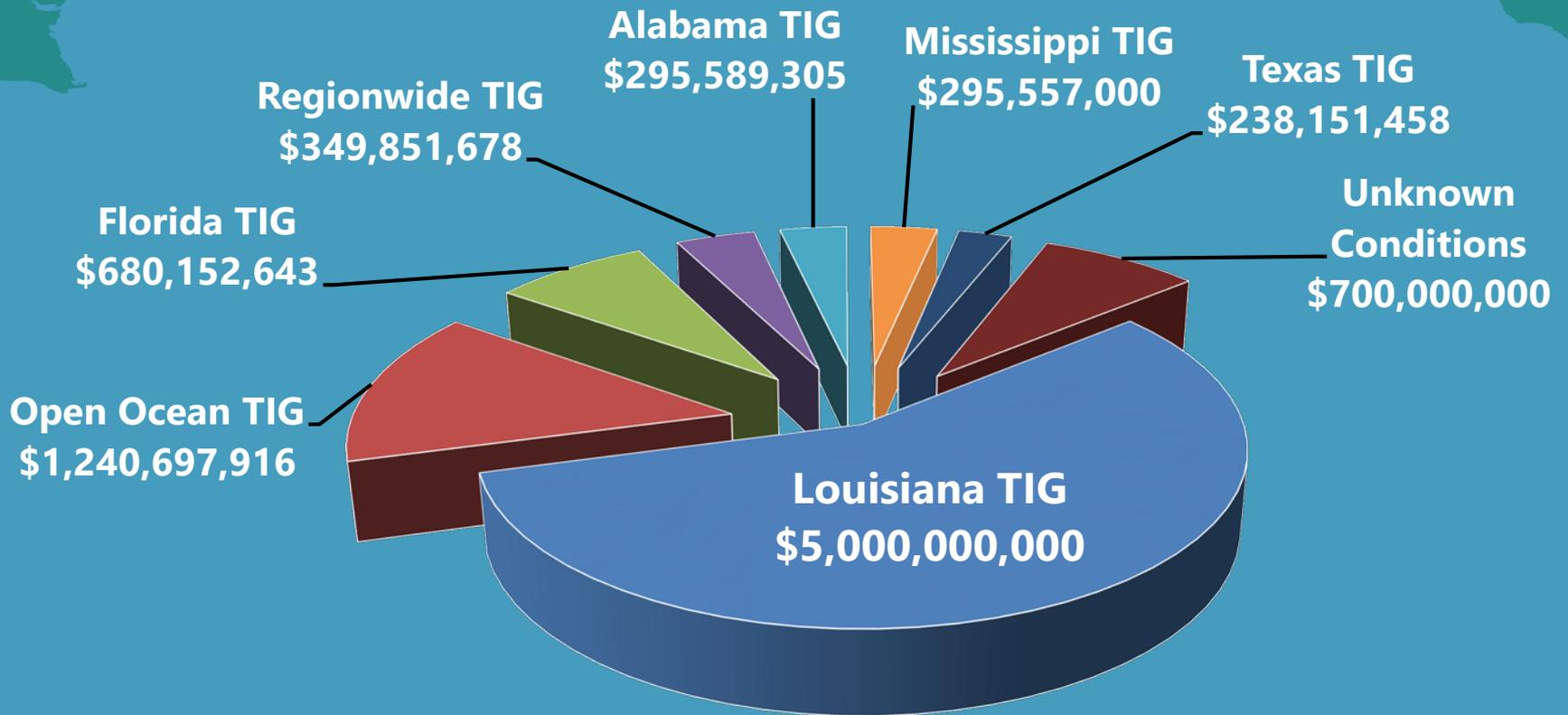
# Restoration Funding in Dollars

Major Restoration Categories	Unknown Conditions	Regionwide	Open Ocean	Alabama	Florida	LOUISIANA	Mississippi	Texas	Total Restoration Funding*
<b>1. Restore and Conserve Habitat</b>									
Wetlands, Coastal, and Nearshore Habitats				65,000,000	5,000,000	4,009,062,700	55,500,000	100,000,000	4,234,562,700
Habitat Projects on Federally Managed Lands				3,000,000	17,500,000	50,000,000	5,000,000		75,500,000
Early Restoration (through Phase IV)				28,110,000	15,629,367	259,625,700	80,000,000		383,365,067
<b>2. Restore Water Quality</b>									
Nutrient Reduction (Nonpoint Source)				5,000,000	35,000,000	20,000,000	27,500,000	22,500,000	110,000,000
Water Quality (e.g., Stormwater Treatments, Hydrologic Restoration, Reduction of Sedimentation, etc.)					300,000,000				300,000,000
<b>3. Replenish and Protect Living Coastal and Marine Resources</b>									
Fish and Water Column Invertebrates			380,000,000						380,000,000
Early Restoration Fish and Water Column Invertebrates			20,000,000						20,000,000
Sturgeon			15,000,000						15,000,000
Sea Turtles	60,000,000	55,000,000	5,500,000	20,000,000	10,000,000	5,000,000	7,500,000		163,000,000
Early Restoration Turtles	29,256,165						19,965,000		49,221,165
Submerged Aquatic Vegetation					22,000,000				22,000,000
Marine Mammals	19,000,000	55,000,000	5,000,000	5,000,000	50,000,000	10,000,000			144,000,000
Birds	70,400,000	70,000,000	30,000,000	40,000,000	148,500,000	25,000,000	20,000,000		403,900,000
Early Restoration Birds	1,823,100		145,000	2,835,000	71,937,300		20,603,770		97,344,170
Mesophotic and Deep Benthic Communities			273,300,000						273,300,000
Oysters	64,372,413			10,000,000	20,000,000	26,000,000	20,000,000	22,500,000	162,872,413
Early Restoration Oysters				3,329,000	5,370,596	14,874,300	13,600,000		37,173,896
<b>4. Provide and Enhance Recreational Opportunities</b>									
Provide and Enhance Recreational Opportunities				25,000,000	63,274,513	38,000,000	5,000,000		131,274,513
Early Restoration Recreational Opportunities			22,397,916	85,505,305	120,543,167	22,000,000	18,957,000	18,582,688	287,986,076
<b>5. Monitoring, Adaptive Management, and Administrative Oversight</b>									
Monitoring and Adaptive Management		65,000,000	200,000,000	10,000,000	10,000,000	225,000,000	7,500,000	2,500,000	520,000,000
Administrative Oversight and Comprehensive Planning		40,000,000	150,000,000	20,000,000	20,000,000	33,000,000	22,500,000	4,000,000	289,500,000
Adaptive Management NRD Payment for Unknown Conditions	700,000,000								700,000,000
<b>Total NRD Funding</b>	<b>\$700,000,000</b>	<b>\$349,851,678</b>	<b>\$1,240,697,916</b>	<b>\$295,589,305</b>	<b>\$680,152,600</b>	<b>\$5,000,000,000</b>	<b>\$95,557,000</b>	<b>\$238,151,458</b>	

\* The total restoration funding allocation for the Early Restoration work; each restoration type; and monitoring, adaptive management, and administrative oversight is \$5.1 billion (plus up to an additional \$700 million for adaptive management and unknown conditions).

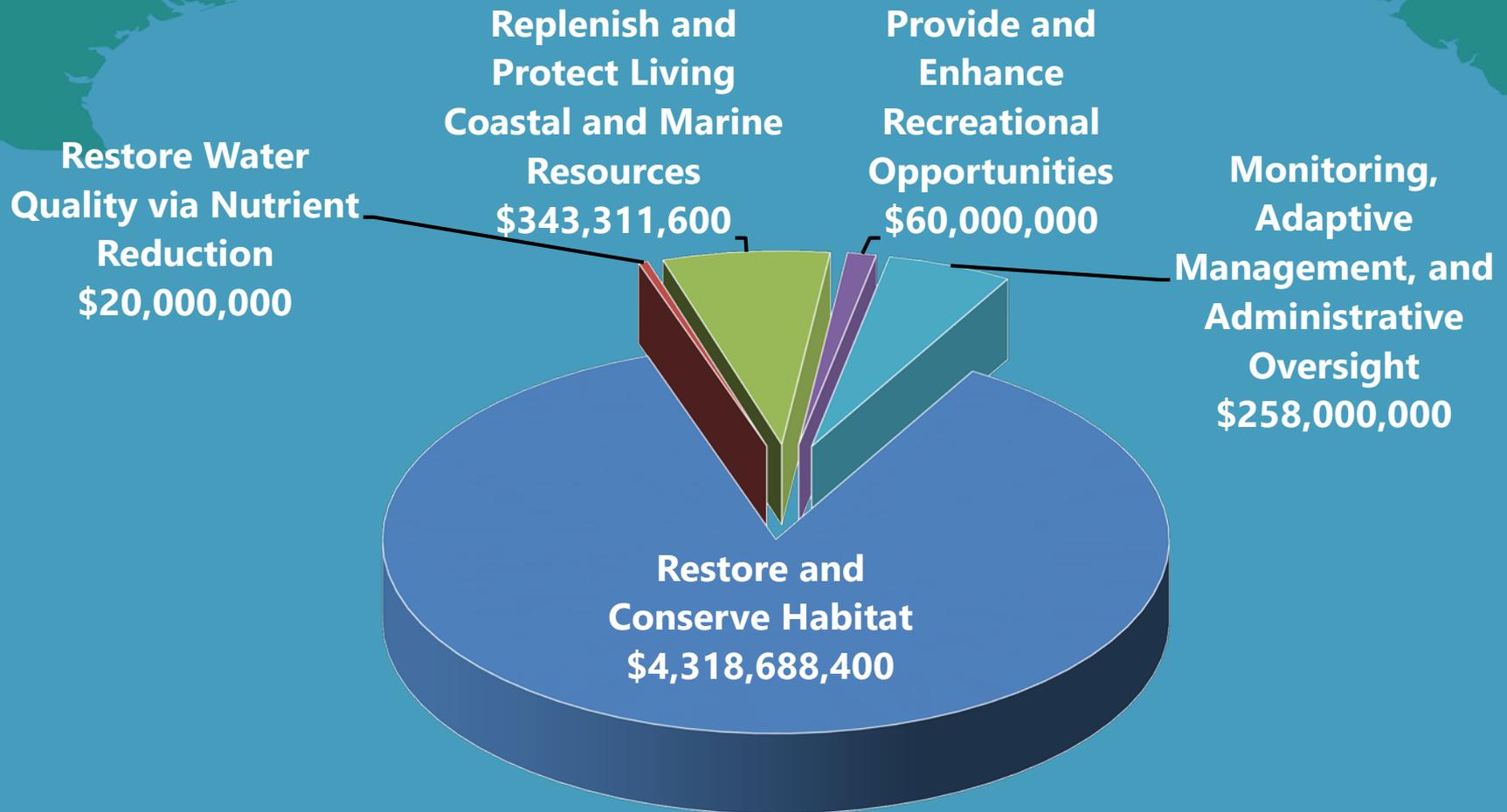


# Total Allocation





# LA TIG Allocation



# Louisiana Restoration Area Representatives

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**Bren Haase**

State of Louisiana

**Sarah Clardy**

Department of the Interior

**Mel Landry**

National Oceanic and Atmospheric Administration

**Doug Jacobson**

U.S. Environmental Protection Agency

**Ron Howard**

U.S. Department of Agriculture

# Typical NRDA & NEPA Process

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**NRDA**



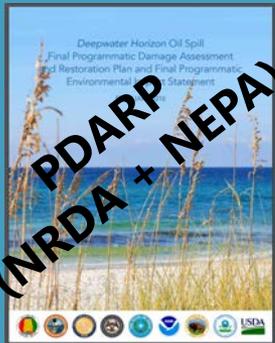
**NEPA**



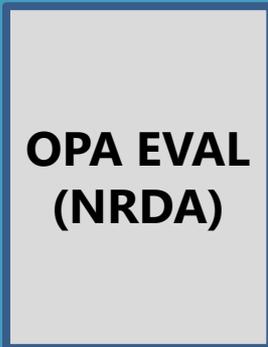
**RESTORATION PLAN**



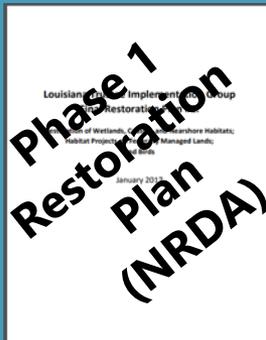
# DWH Phased NRDA & NEPA Process



**PDARP  
(NRDA + NEPA)**



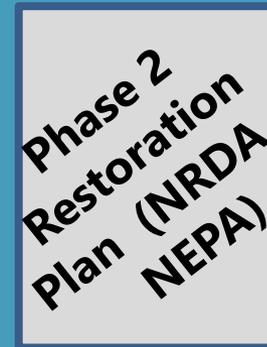
**OPA EVAL  
(NRDA)**



**Phase 1  
Restoration  
Plan  
(NRDA)**



**Project  
Design +  
Enviro  
Eval**



**Phase 2  
Restoration  
Plan (NRDA +  
NEPA)**



**Construction**

Approaches  
/ Techniques

Solicitation  
of Projects

Project  
Type/Location  
E&D Funding

Design  
Alternatives

Selection/  
Construction  
Funding

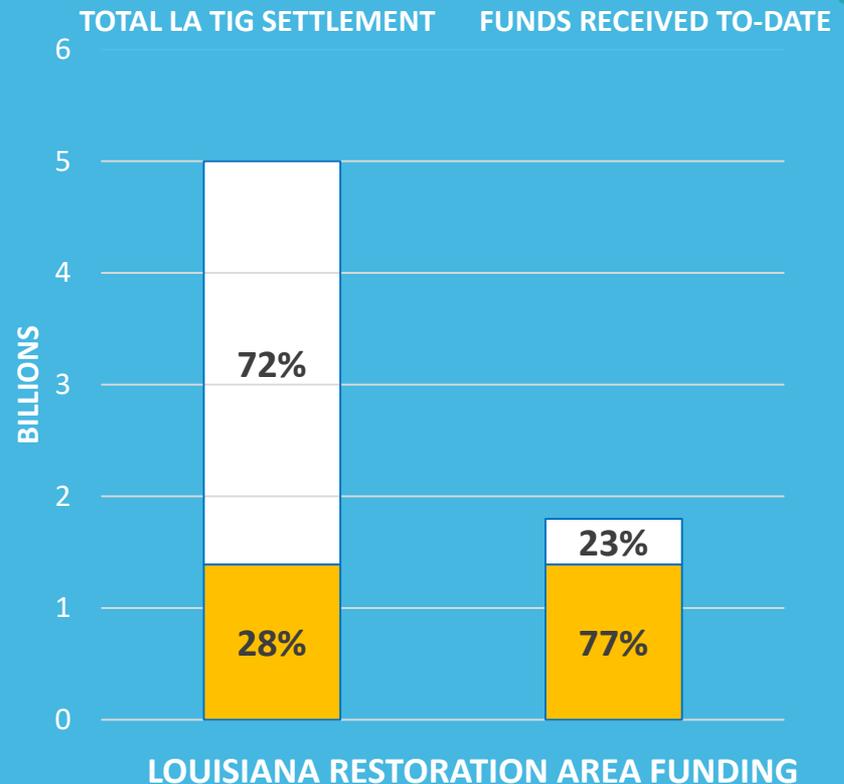


# **Restoration Implementation Update**



# Funding Update

- Committed approximately \$1.39 billion for projects and planning activities as of August 2021.
- The total allocation for Louisiana is \$5 billion.



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## **Restore and Conserve Habitat**

**Wetlands, Coastal, and Nearshore Habitats**

**Habitat Projects on Federally Managed Lands**

## **Restore Water Quality**

**Nutrient Reduction (Nonpoint Source)**

## **Replenish and Protect Living Coastal and Marine Resources**

**Sea Turtles**

**Submerged Aquatic Vegetation**

**Marine Mammals**

**Birds**

**Oysters**

## **Provide and Enhance Recreational Opportunities**

**Provide and Enhance Recreational Opportunities**

## **Monitoring, Adaptive Management, Administrative Oversight**

**Monitoring and Adaptive Management**

**Administrative Oversight and Comprehensive Planning**



# Restore and Conserve Habitat

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## Wetlands, Coastal and Nearshore Habitats

- Total Allocation: \$4.318 billion
- Allocated so far: ~ \$1.110 billion
- Thirteen projects

# Wetlands, Coastal and Nearshore Habitats

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- Marsh Creation and Ridge Restoration, Barrier Islands, Living Shorelines and Hydraulic Restoration
- Engineering and Design, Construction
- 11,168 acres

# Calliou Lake Headland Project



# Calliou Lake Headland Project





# West Grand Terre Island





# West Grand Terre Island

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# Restore and Conserve Habitat

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## Habitat Projects on Federally Managed Lands

Total Allocation: \$50 million

Allocated so far: ~ \$22.8 million

- Shoreline Protection at Jean Lafitte National Historical Park and Preserve

# Shoreline Protection at Jean Lafitte

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# Restore Water Quality

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## Nutrient Reduction (Nonpoint Source)

Total Allocation: \$20 million

Allocated so far: ~ \$9.7 million

- Four projects funded
- Guideline Development, Outreach and Education, Baseline water Quality monitoring, Landowner Coordination and Agreements, Plan Development, Site Specific Implementation and Post Implementation Monitoring.



# Nutrient Reduction

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- NR on Dairy Farms in St. Helena and Tangipahoa Parishes
  - 2 Active Landowner Contracts to improve the function of on farm dairy lagoons.
- WWH on Cropland in Vermilion and Cameron Parishes
  - 7 Active Landowner Contracts to filter nutrients and sediments on cropland. Approximately 750 acres enrolled.
- Nutrient Reduction in Bayou Folsé
  - 1 Active Landowner Contract to reduce nutrient and sediment runoff from pastureland. Approximately 45 acres enrolled.
- Baseline Water Quality monitoring has been started for all projects.



# Nutrient Reduction





# Replenish and Protect Living Coastal and Marine Resources

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## Five Restoration Types

- Sea Turtles - \$10,000,000
- Submerged Aquatic Vegetation - \$22,000,000
- Marine Mammals - \$50,000,000
- Birds - \$220,437,300
- Oysters - \$40,874,300



# Replenish and Protect Living Coastal and Marine Resources

## Marine Mammals

Total Allocation: \$50 million

Allocated so far: ~ \$3.57 million





# Replenish and Protect Living Coastal and Marine Resources

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## Birds

Total Allocation: \$148.5 million

Allocated so far: ~ 115.5 million

- Six projects
- Strategic Bird Habitat Restoration



# Rabbit Island





# Rabbit Island





# Rabbit Island





# Rabbit Island





# Replenish and Protect Living Coastal and Marine Resources

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## Oysters

Total Allocation: \$40.87 million

Allocated so far: \$40.87 million

- Four projects
- Clutch Placement, Hatchery-Based Restoration, Brood Reefs



# Oyster Cultch Placement



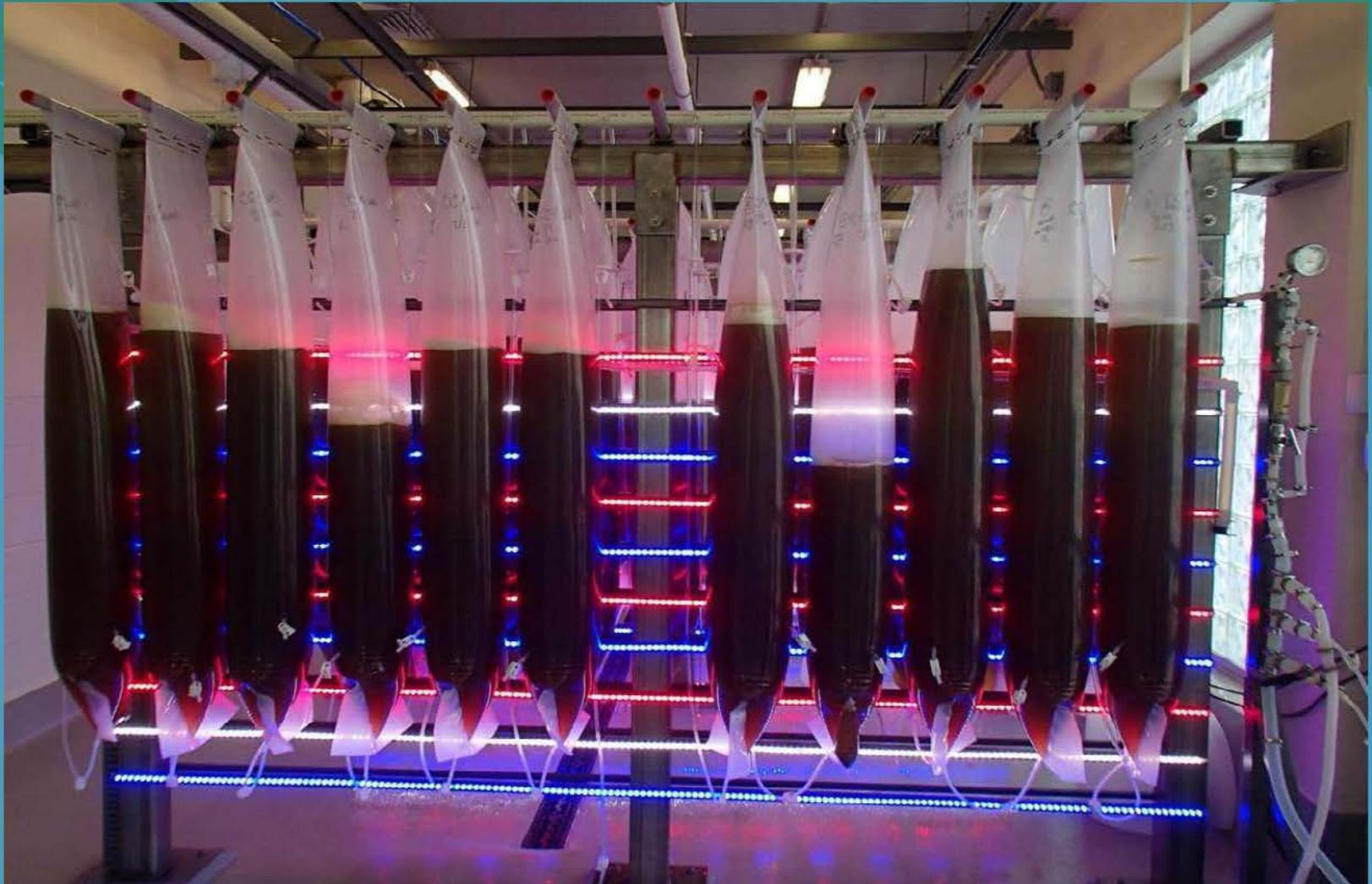


# Oyster Hatchery





# Oyster Hatchery



# Provide and Enhance Recreational Opportunities

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## Recreational Opportunities

Total Allocation: \$60 million

- Twenty-three total projects
- State and Federal Parks, Wildlife Management Areas and Refuges, Parish Properties and Tribal Lands.
- Fishing Piers and Public Access Improvements, Boat Launches, Campground Improvements, Signage, Artificial Reefs, Activities and Education Facilities

# Island Road Fishing Piers and Boat Launch



# Island Road Fishing Piers and Boat Launch



# Island Road Fishing Piers and Boat Launch

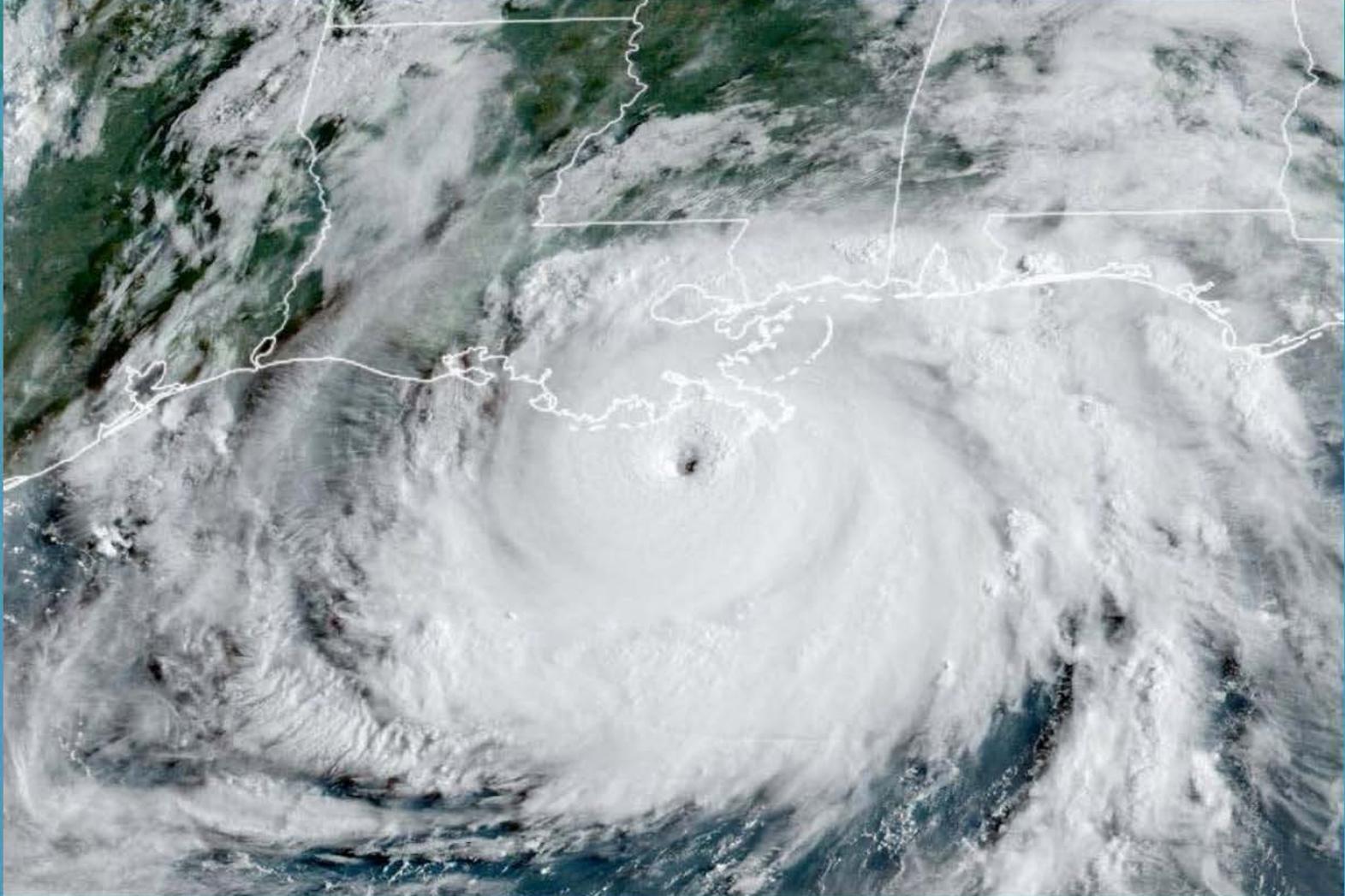


# Point Aux Chenes WMA Enhancements





# Hurricane IDA





# Monitoring and Adaptive Management

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Total Allocation: \$225 million

Allocated so far: ~ \$23.5 million

- 2 new projects were funded in the last year
- 7 projects have been funded with MAM allocation
  - Targeted data collection efforts
  - Support for long-term monitoring programs
  - Program-level strategic planning

# Monitoring and Adaptive Management: New Products

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Completed Programmatic MAM Strategy



Funded Lower Trophic Level Inventory planning



Drafted Avian Habitat Restoration and Monitoring Guidance



Published documents on low salinity effects on dolphins in Barataria Bay

# Monitoring and Adaptive Management: Continuing Projects



Secretive marsh birds survey



Colonial waterbirds survey



Fisheries-Independent Monitoring  
Program



Coastwide Reference Monitoring System



# Planned Future Efforts



# Restoration Plans in Development

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<b>Restoration Plan</b>	<b>Proposed Project Budget</b>
Draft Restoration Plan and Environmental Assessment #3.2 – Mid Barataria Sediment Diversion	Approximately \$2,000,000,000
Draft Restoration Plan and Environmental Assessment #8 – Wetlands, Coastal, and Nearshore Habitats	TBD (Spring 2022)



# Takeaways

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- **Louisiana will ultimately have \$5.0B available through NRDA allocated through the Louisiana TIG.**
- **Slightly over \$1.39B allocated to date.**
- **Thirteen Comprehensive Restoration Plans completed or underway**
- **60 projects initiated or completed.**



# Meeting Materials

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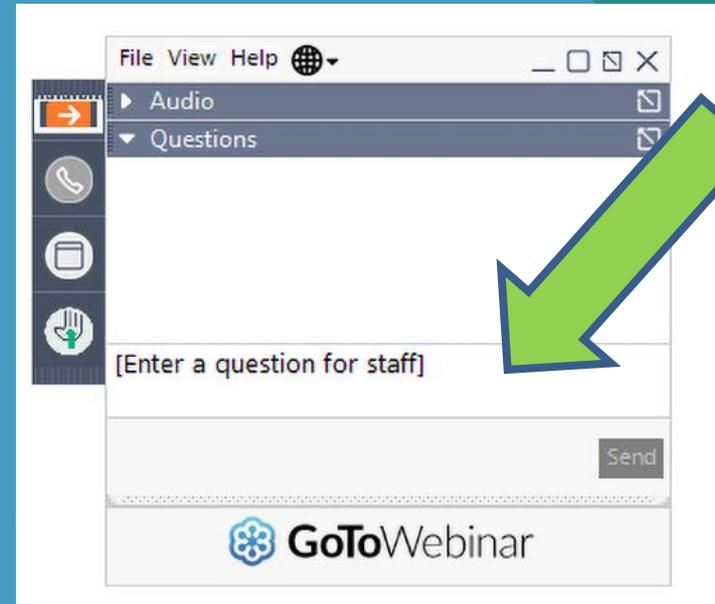
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# Comments and Questions

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- Comments will be read aloud, and questions answered, as time allows





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