



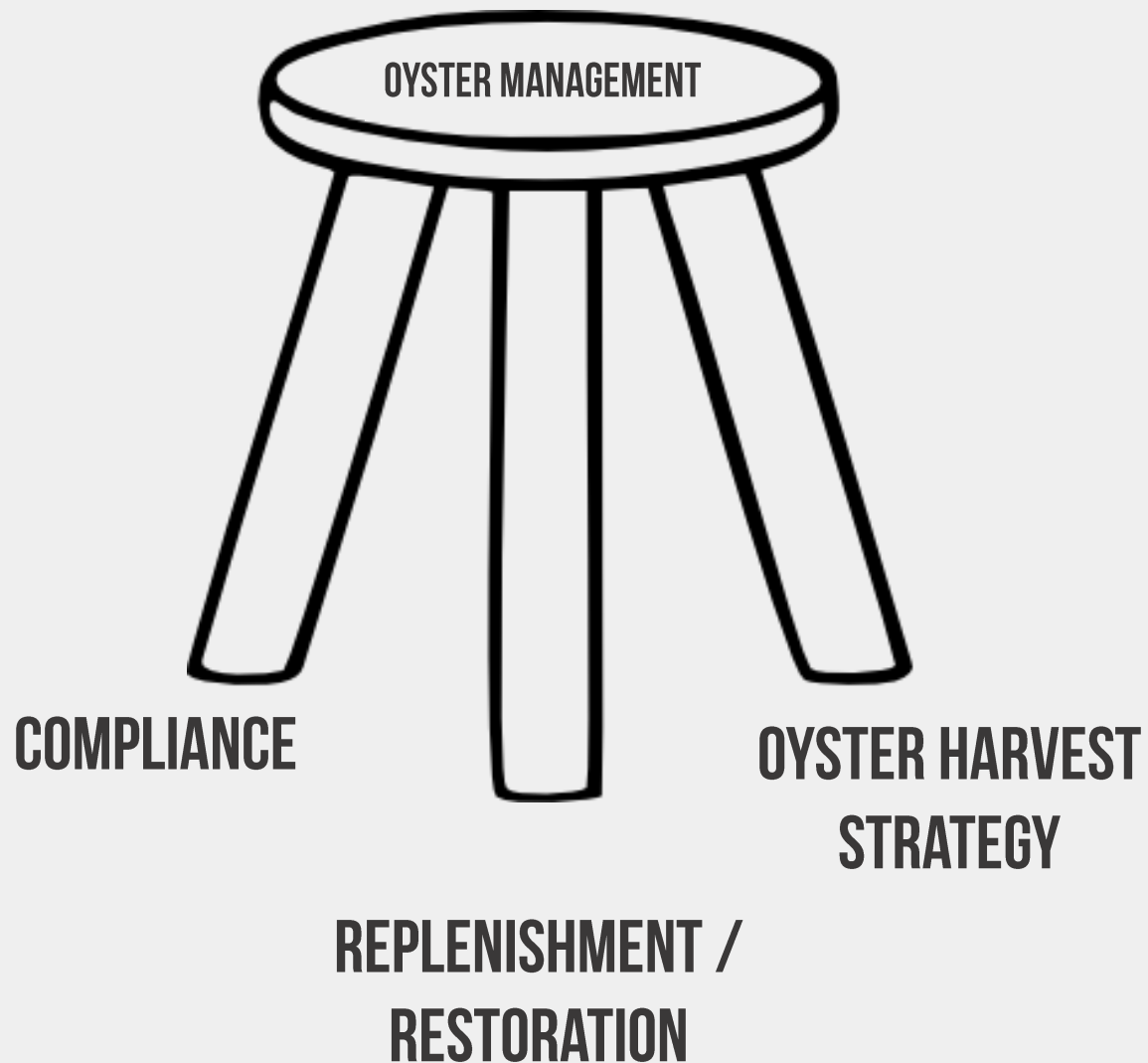
# OYSTERS

## GOALS, RESTORATION OBJECTIVES, AND PROGRESS



2017 RESTORATION SUMMIT

JOE JEWELL — MARINE FISHERIES DIRECTOR, MS DEPARTMENT OF MARINE RESOURCES  
ROBBIE KRÖGER — CHIEF SCIENTIFIC OFFICER, COVINGTON CIVIL AND ENVIRONMENTAL



# OYSTER RESTORATION 101

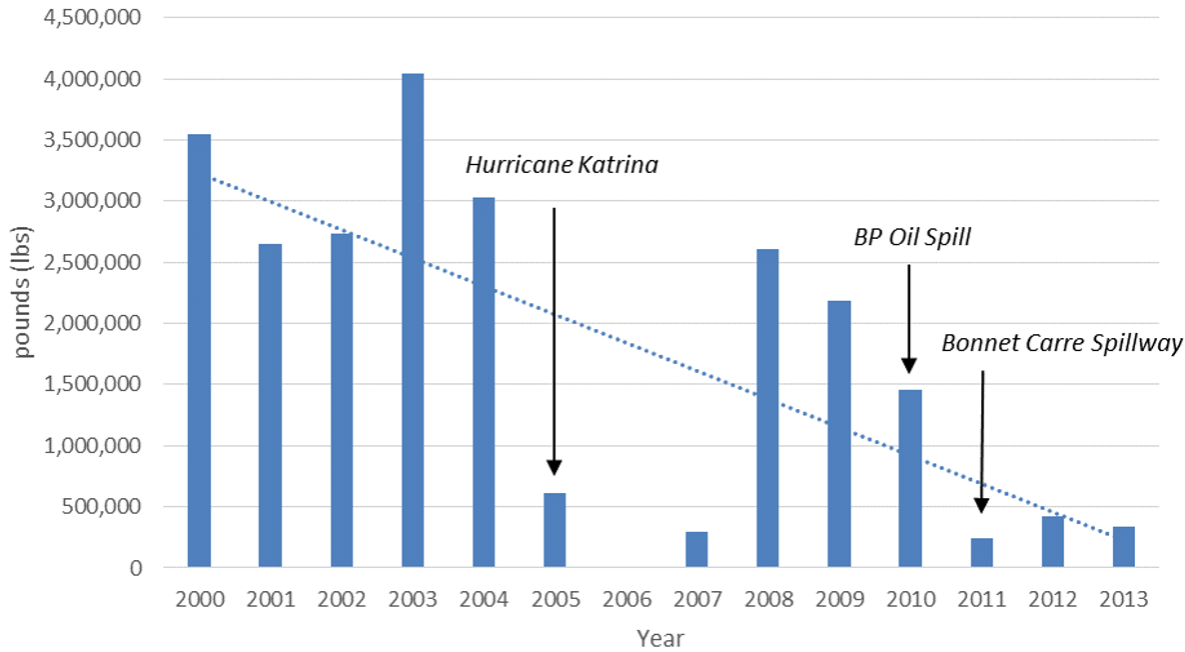
The MS Department of Marine Resources operates oyster restoration through three primary mechanisms.

Why do we need to restore oysters?

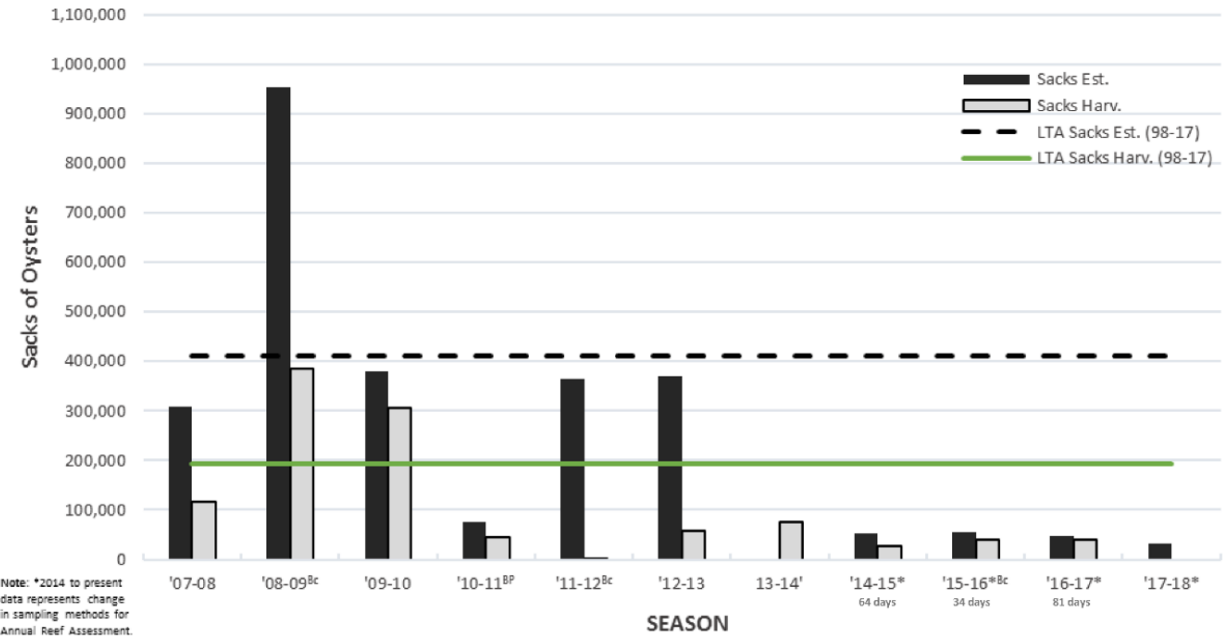


# THE WHY OF OYSTER RESTORATION

Mississippi Oyster Landings 2000-2013



2007-2017 Sacks Estimated vs. Harvested



Note: \*2014 to present data represents change in sampling methods for Annual Reef Assessment.





# MOVING FORWARD: GOVERNORS OYSTER COUNCIL



The Governor convened the Oyster Council to come up with recommendations to meet a goal:

**1 MILLION SACKS OF OYSTERS BY 2025**

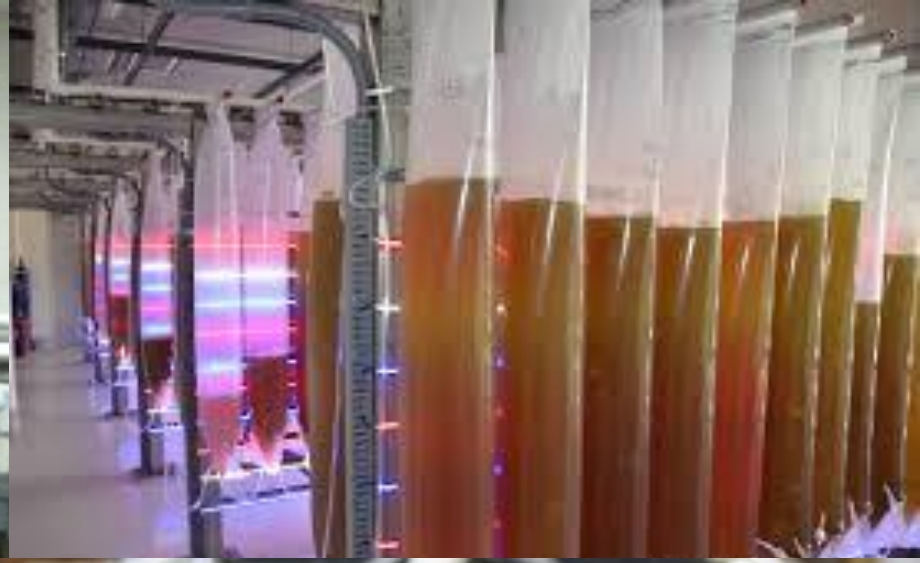
## TOP 3 PRIORITIES:

- **BE SELF RELIANT**
- **BE ABLE TO SCALE-UP REPLENISHMENT AND RESTORATION EFFORTS**
- **DIVERSIFY OYSTER HARVEST STRATEGIES**





**BE SELF RELIANT**





# BE ABLE TO SCALE



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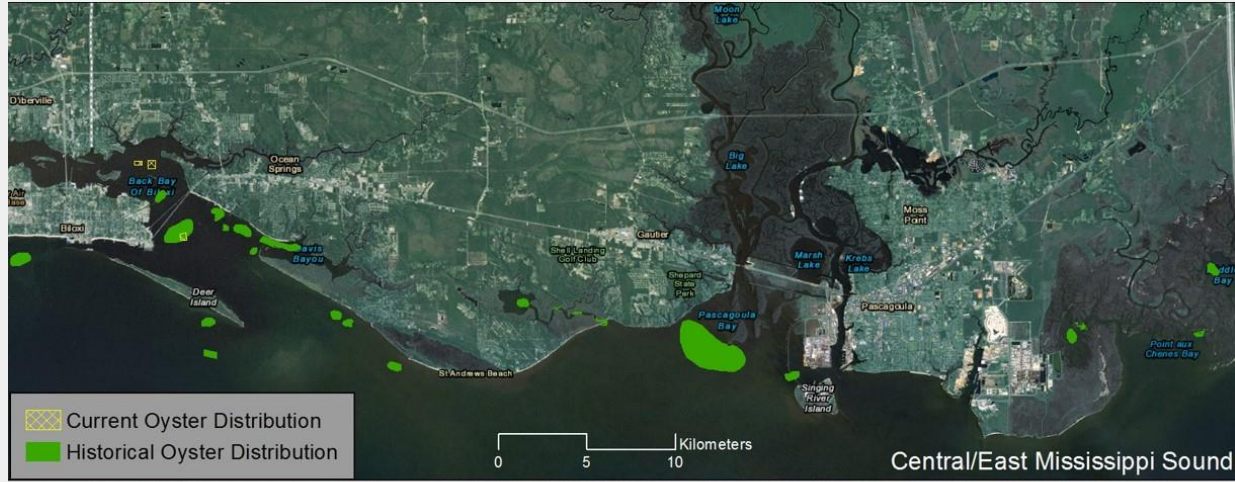


# DIVERSIFY OYSTER HARVEST STRATEGIES





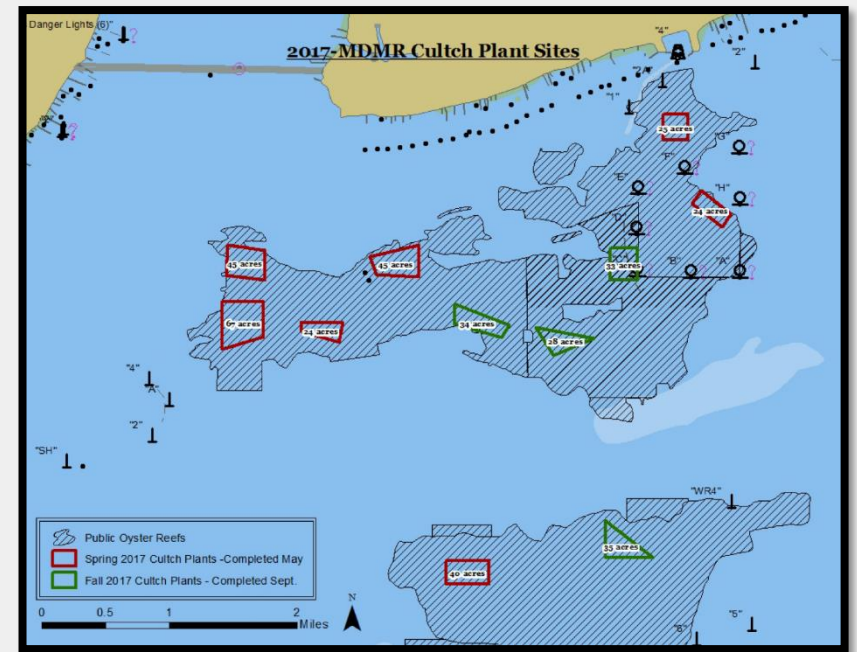
# CURRENT OYSTER REEF DISTRIBUTIONS



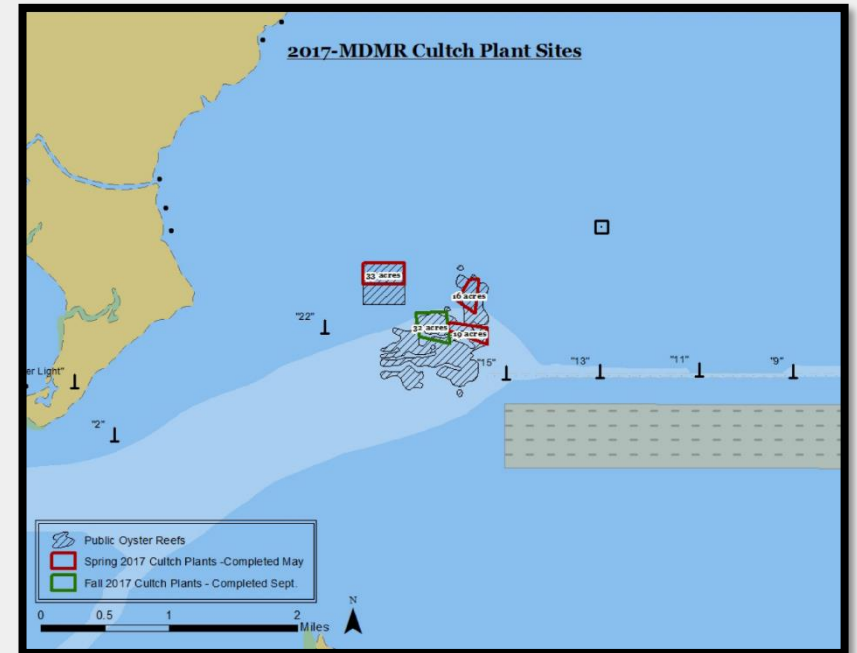
## CURRENT AND HISTORICAL DISTRIBUTIONS



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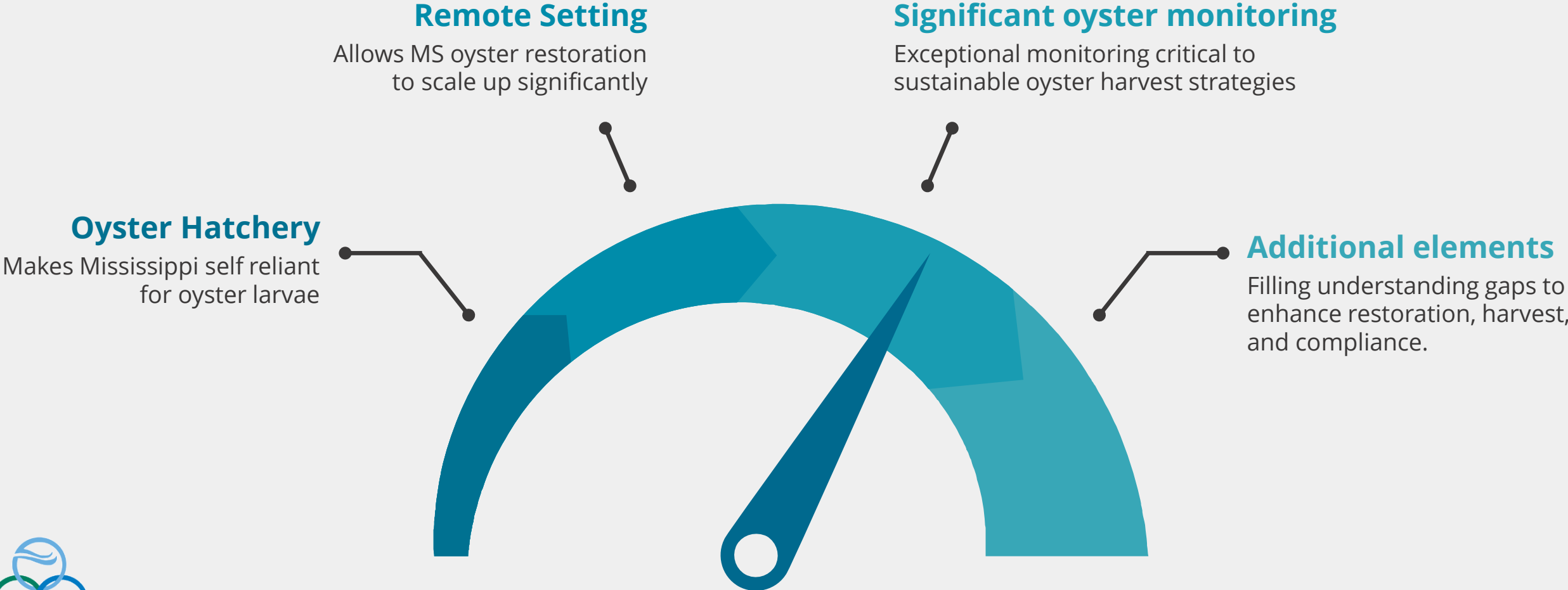


## FALL AND SPRING 2017 CULTCH PLANTS

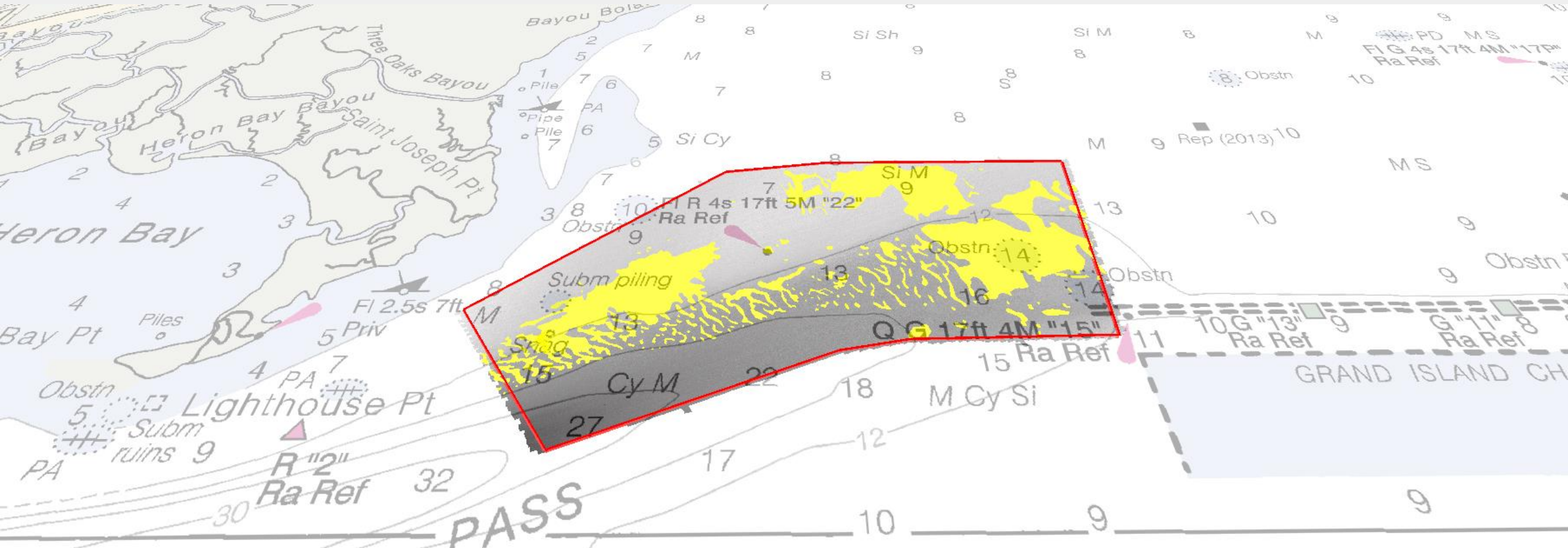




# PROGRESS ACHIEVING OYSTER GOALS



# BENTHIC HABITAT MAPPING



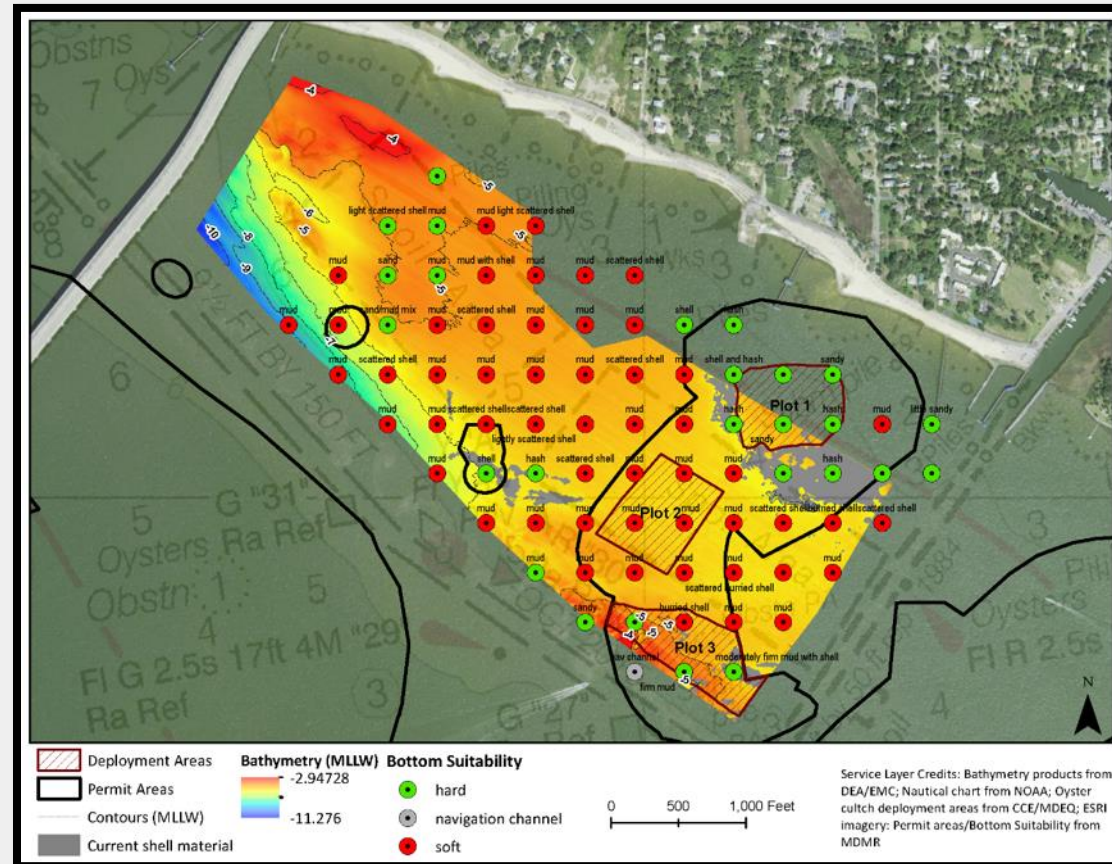
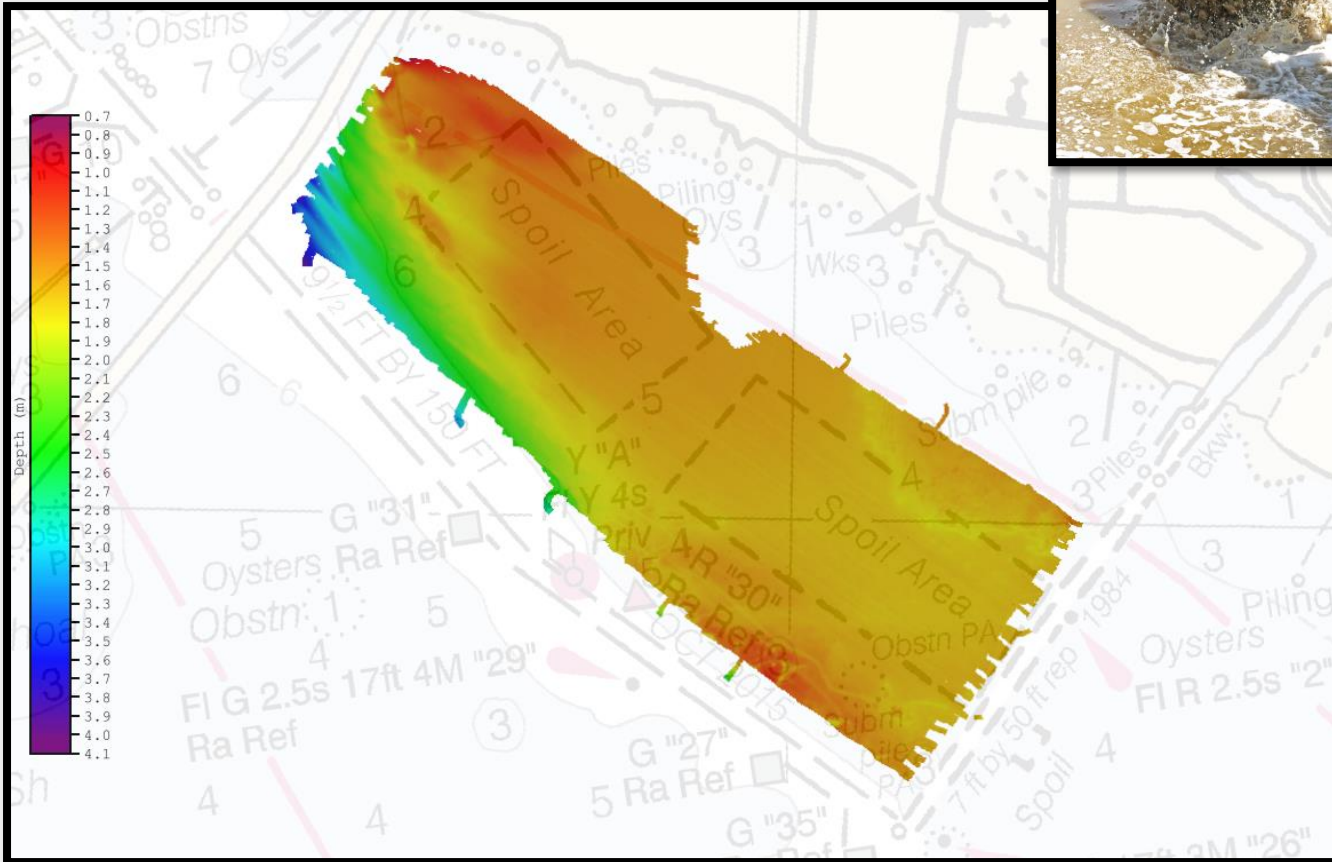
## MAPPING EXISTING DISTRIBUTIONS



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# TESTING CULTCH MATERIALS



## TESTING CRUSHED CONCRETE AGAINST LIMESTONE



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# BETTER UNDERSTANDING OF WATER QUALITY

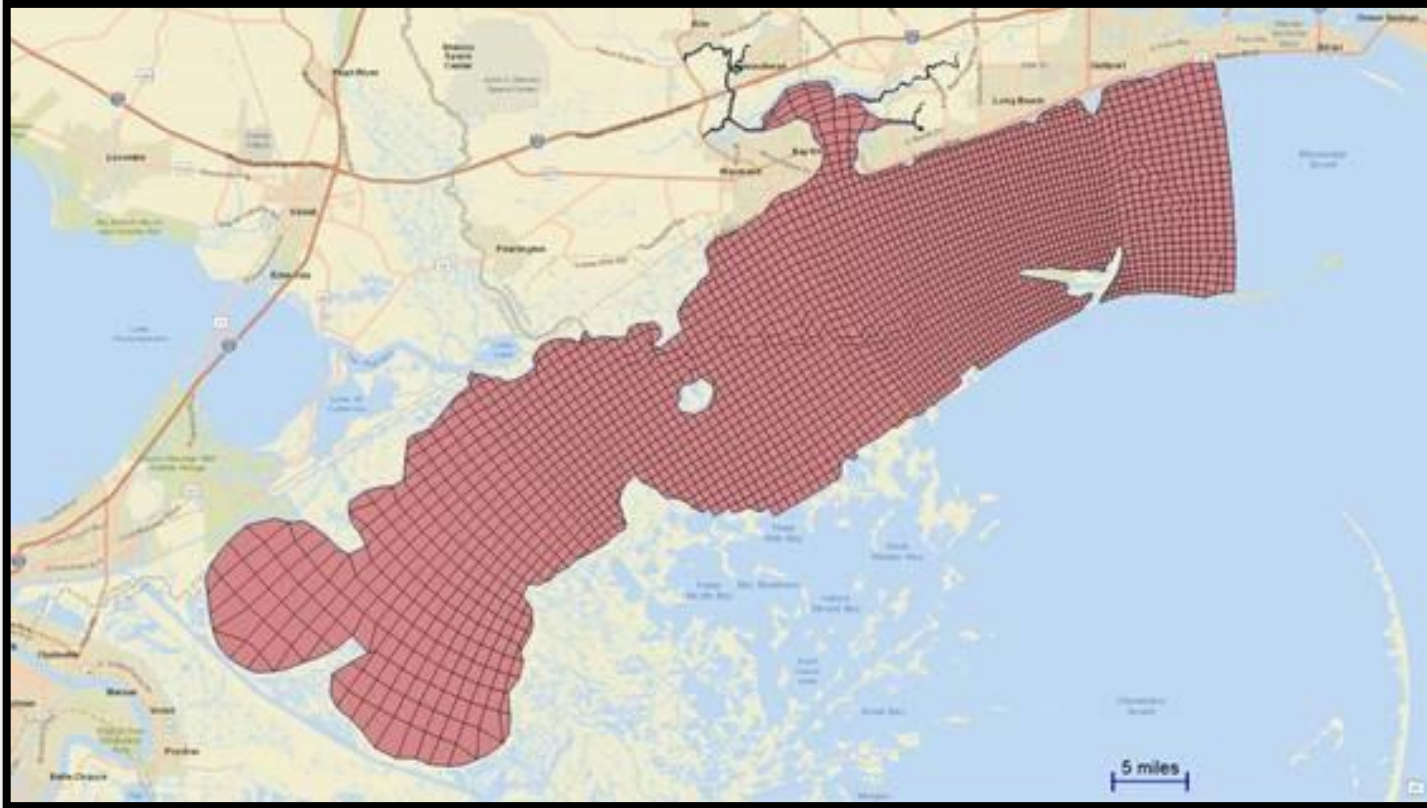


119 SITES FOR WATER QUALITY DETERMINATION QUARTERLY

0 10 Miles



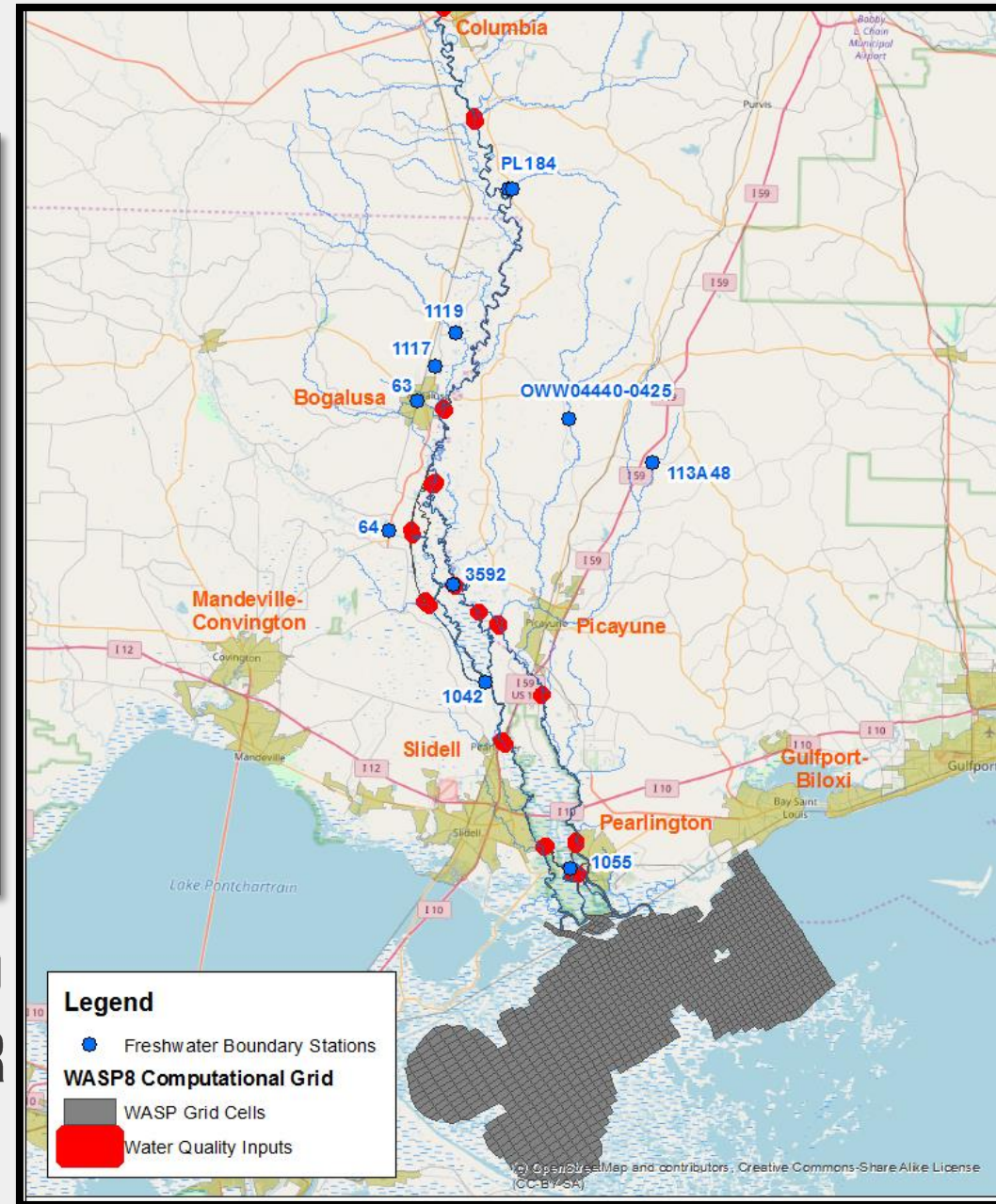
# BETTER UNDERSTANDING OF FLOWS



## HYDRODYNAMIC MODELLING OF WESTERN MS SOUND AND THE LOWER 65KM OF PEARL RIVER



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# DIVERSIFY OYSTER GROWTH

## Mississippi Oyster Gardening Program Sites





# DIVERSITY OYSTER GROWTH PT2



**DEVELOPING SUSTAINABLE  
RELAY  
PROGRAM FROM  
PASCAGOULA OYSTER REEF  
COMPLEX**

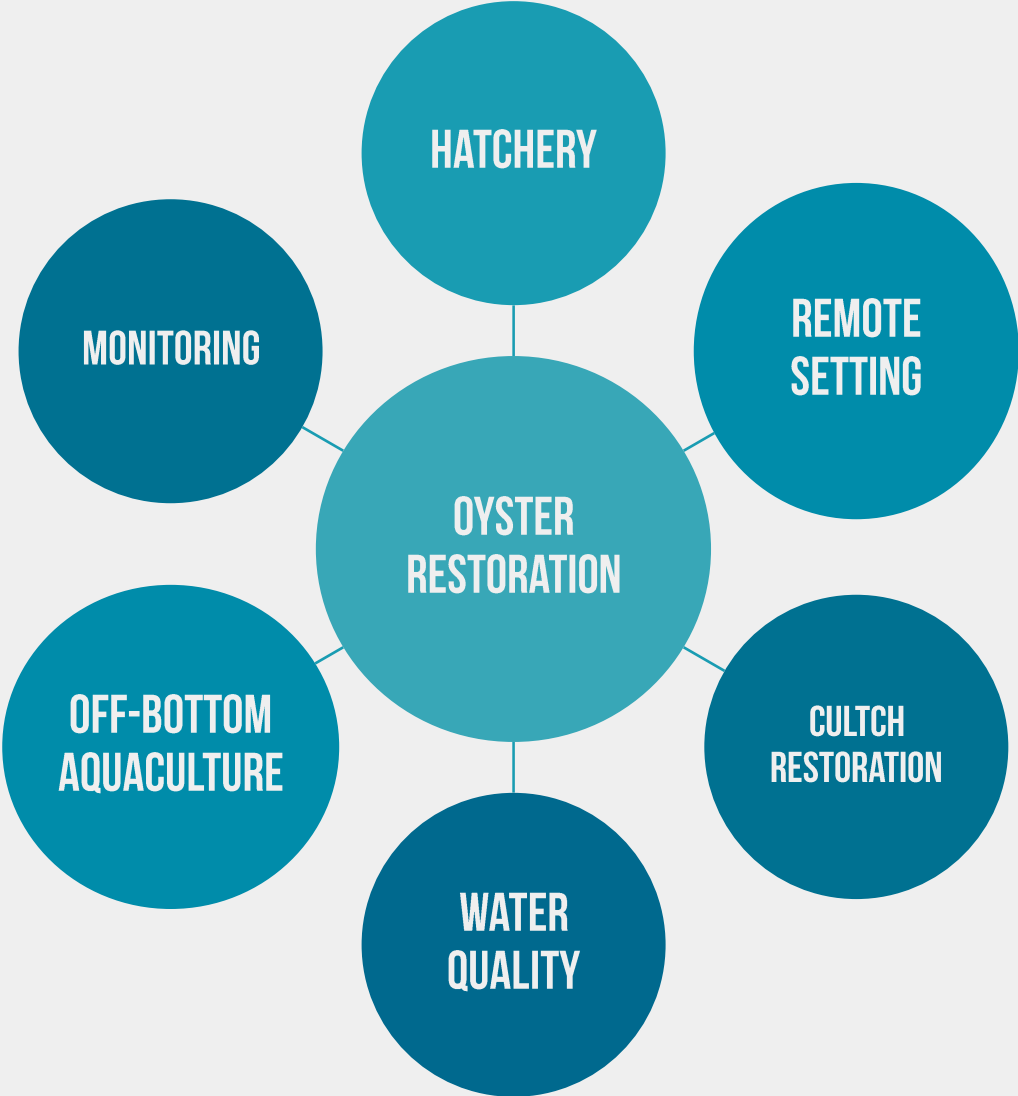


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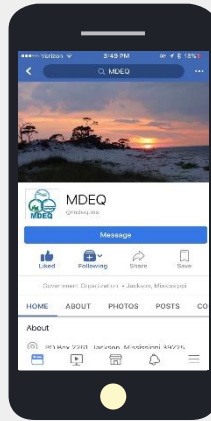
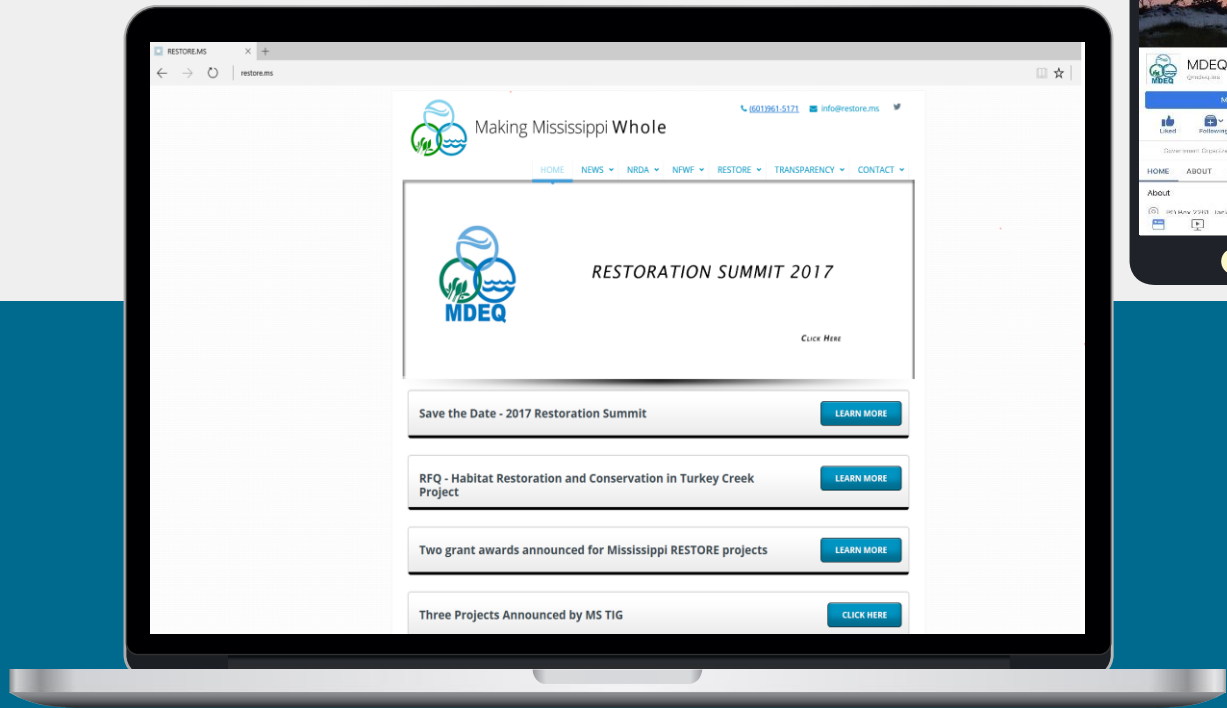
Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, OpenStreetMap contributors, and the GIS User Community

# BUILDING TOWARD THE FUTURE

- ✓ **MULTI-PRONGED EFFORT**
- ✓ **SIGNIFICANT AGENCY COORDINATION**







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