

# DREDGING INDUSTRY TRENDS



*Proceedings of Western Dredging  
Association and Texas A&M University  
Center for Dredging Studies*

*"Dredging Summit and Expo 2015"*

# Technology



# Technology



# Technology



# Technology



Monitoring



# Technology



Accuracy

AUTOMATION

# Digging Deeper



# Digging Deeper



# Investing for Anticipated Demand



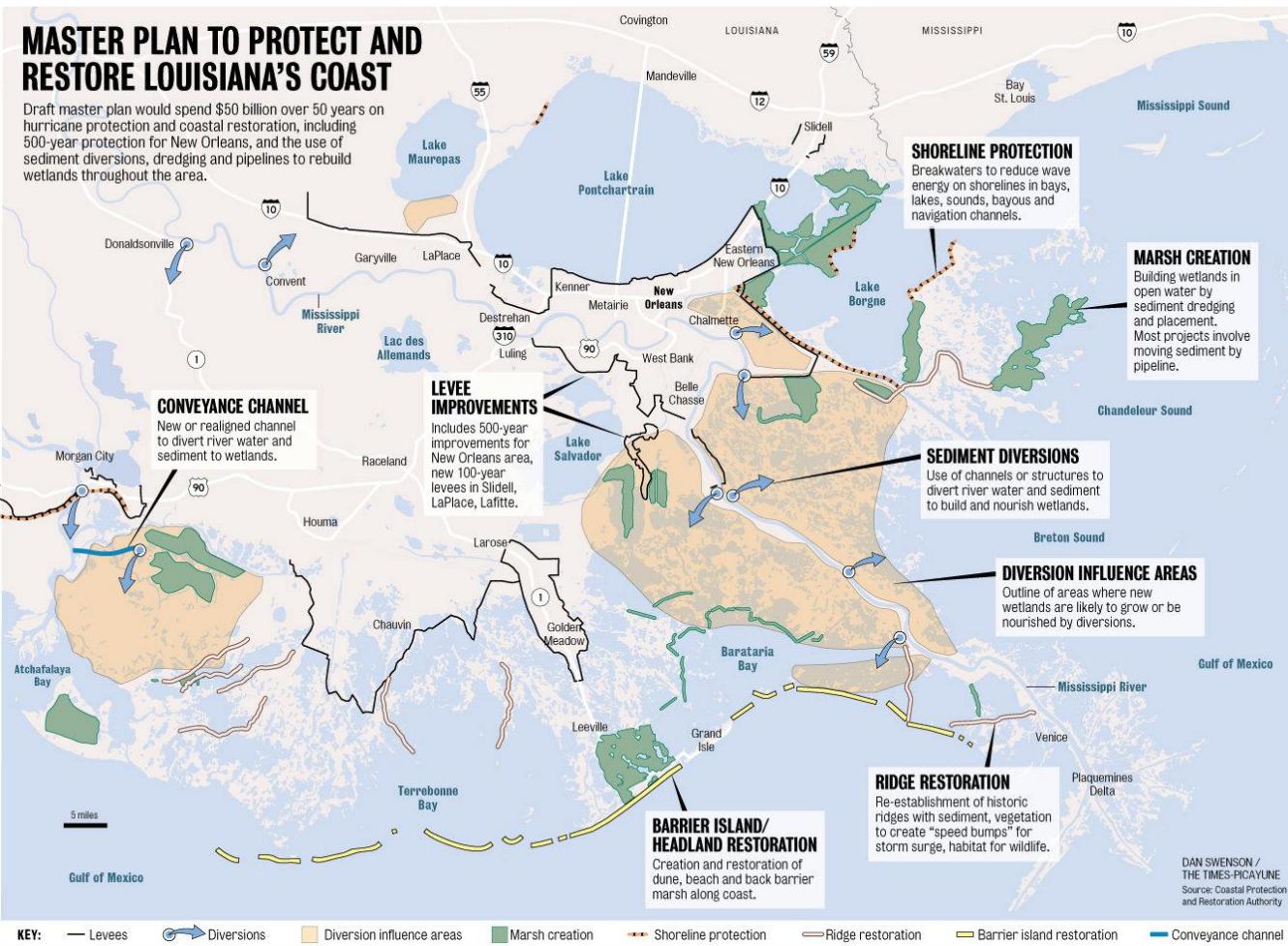
# Investing for Anticipated Demand



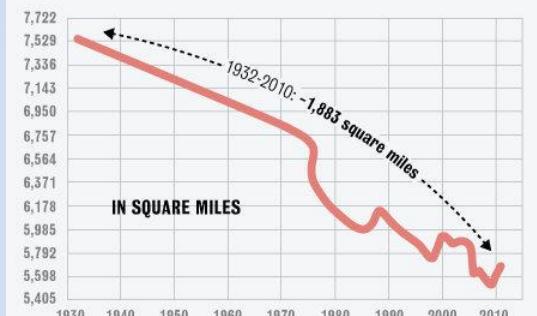
# Investing for Anticipated Demand



# Investing for Anticipated Demand



## COASTAL LOUISIANA LAND AREA DECREASING

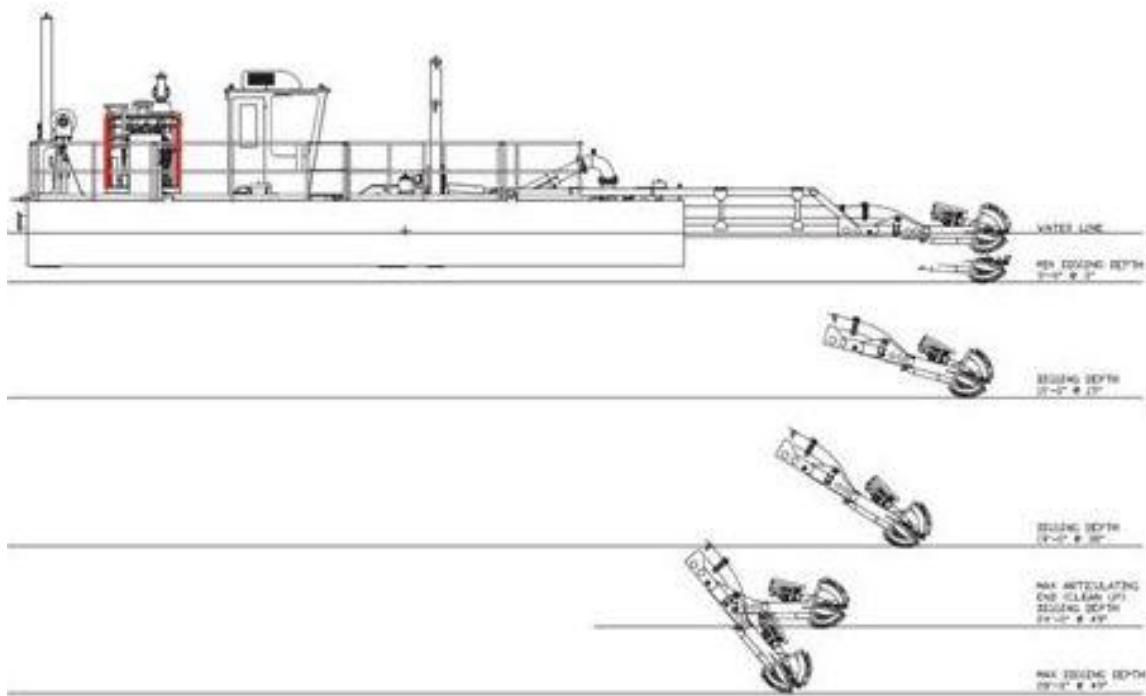


DAN SWENSON /  
THE TIMES-PICAYUNE  
Source: Coastal Protection  
and Restoration Authority

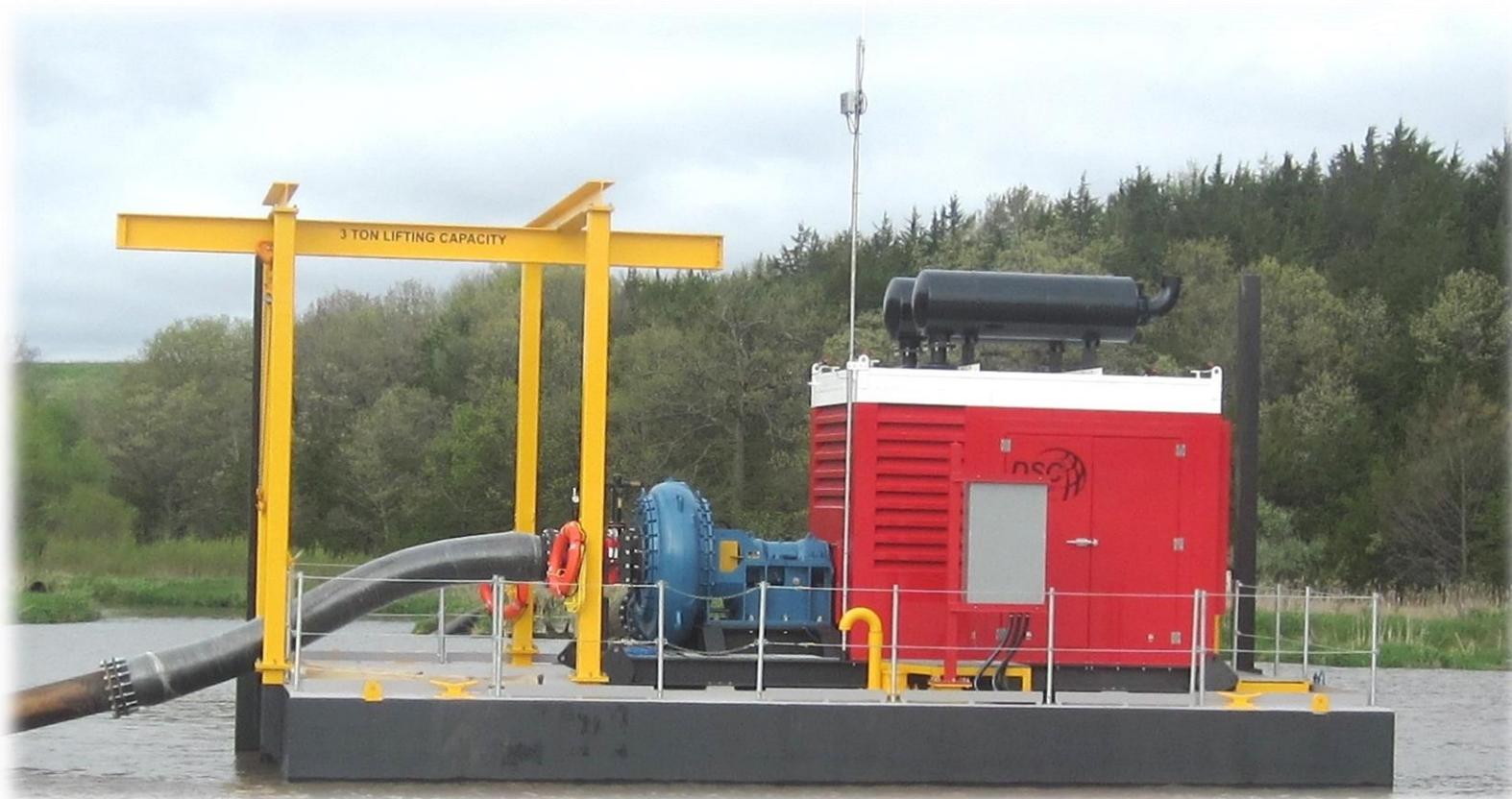


# Environmental Dredging

Precision



# Environmental Dredging



Sound attenuation

# Environmental Dredging

Capping Technology



# Environmental Dredging

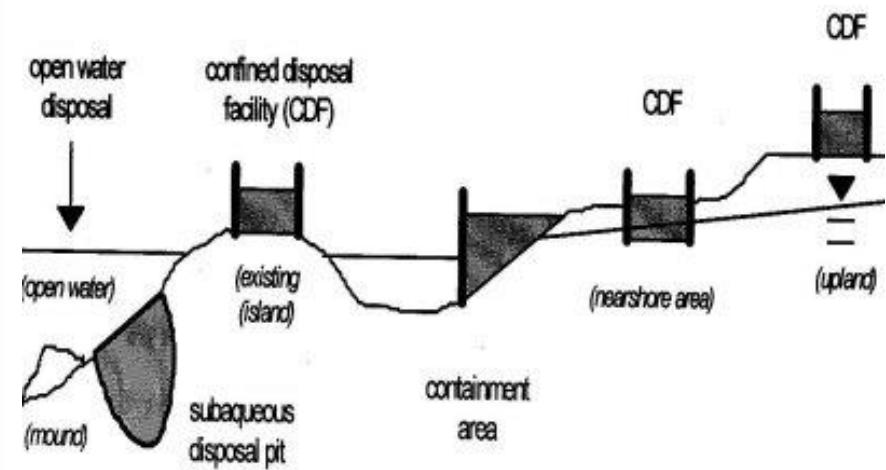
Excavation Technology



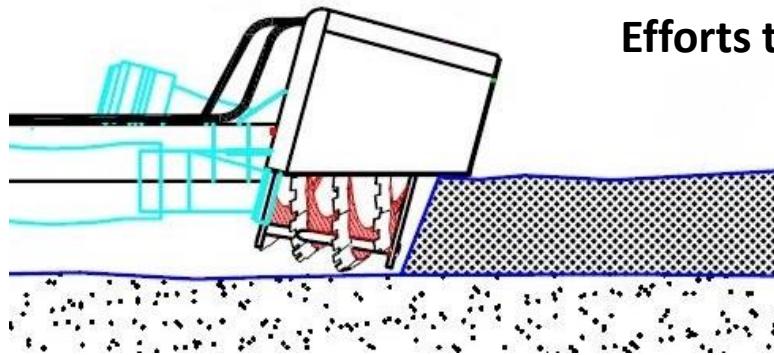
# Environmental Dredging



Confined Disposal Areas



# Environmental Dredging



Efforts to Reduce Re-suspension of Dredged Materials

# Education, Training & Certifications

Dredducation™

WHY IS  
Dredging  
GOOD?

Center for  
Dredging Studies  
Ocean Engineering Program



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"Dredging Summit and Expo 2015"*

## CERTIFICATION FOR DREDGE PROFESSIONALS- THE WHY AND HOW

A. Alcorn<sup>1</sup>, D. Hayes<sup>2</sup>, and R. Randall<sup>3</sup>



# We're Talking About Dredging



**WRERRDA**  
the WATER RESOURCES  
REFORM & DEVELOPMENT ACT

**TRANSPORT**  
TRANSPORTATION & INFRASTRUCTURE COMMITTEE

A graphic featuring the acronym WRERRDA in large white letters, followed by the full name of the act. Below it is the word "TRANSPORT" in a stylized font, with "TRANSPORTATION & INFRASTRUCTURE COMMITTEE" underneath. The background is a blurred image of a port or industrial area.

# We're Talking About Dredging



Big River Coalition



WEDA Environmental Commission

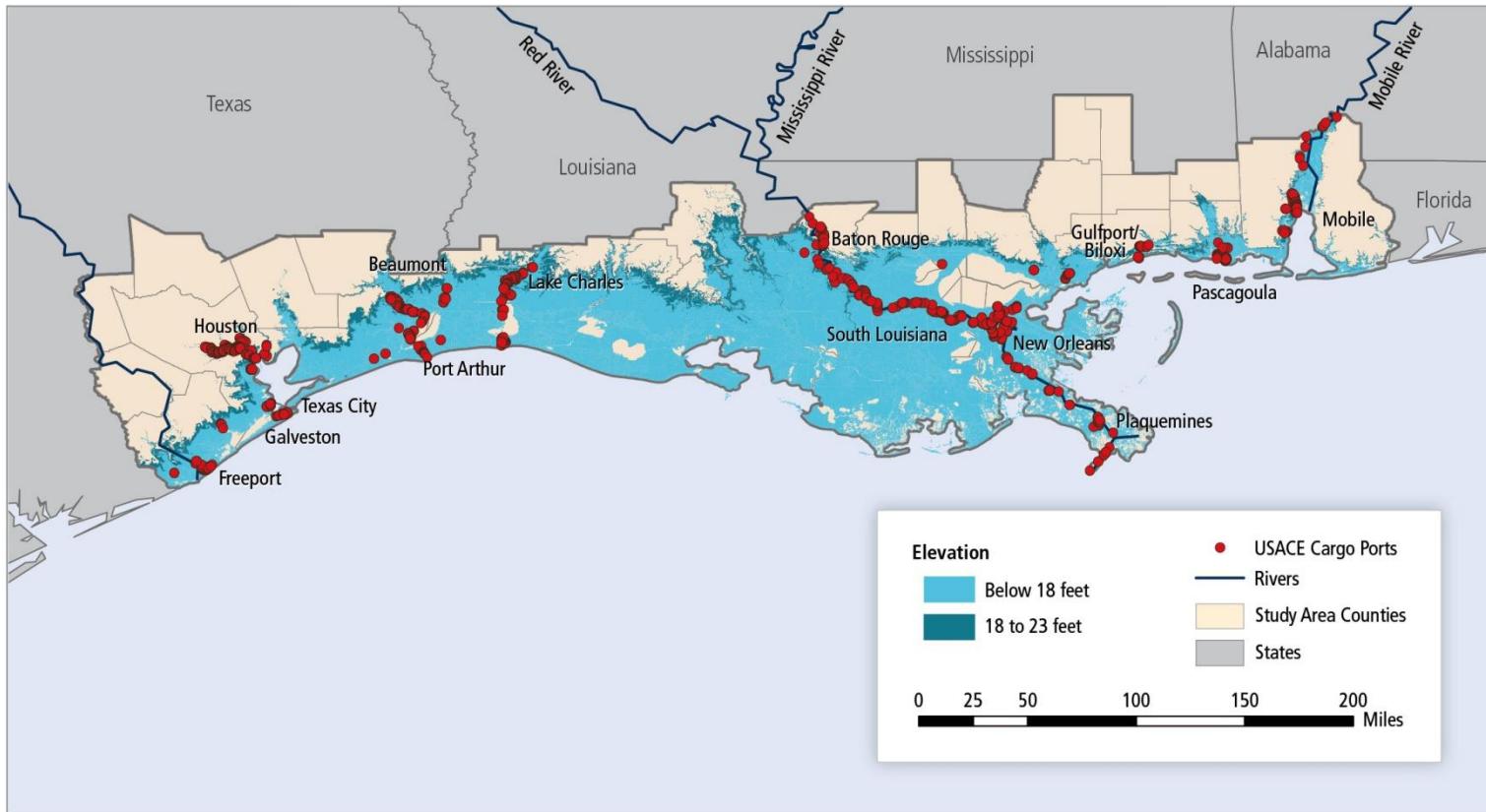
*WEDA Environmental Excellence Awards*



***The Save Louisiana Coalition***



# We're Talking About Dredging



Potential Future of the Gulf Coast



# We're Talking About Dredging

## What is the basis of the range of scenarios for global mean sea level rise?

We have very high confidence (greater than 9 in 10 chances) that global mean sea level (based on mean sea level in 1992) will rise at least 8 inches (0.2 meters) and no more than 6.6 feet (2 meters) by 2100. The biggest source of uncertainty within this range is the contribution of water from melting ice sheets and glaciers in Greenland and West Antarctica.

- The lowest sea level change scenario (8 inch rise) is based on historic rates of observed sea level change. This scenario should be considered where there is a high tolerance for risk (e.g. projects with a short lifespan or flexibility to adapt within the near-term)
- The intermediate-low scenario (1.6 feet) is based on projected ocean warming
- The intermediate-high scenario (3.9 feet) is based on projected ocean warming and recent ice sheet loss
- The highest sea level change scenario (6.6 foot rise) reflects ocean warming and the maximum plausible contribution of ice sheet loss and glacial melting. This highest scenario should be considered in situations where there is little tolerance for risk.

## Rising Sea Levels



# Safety & Regulatory



Dredging Safety Management Program



US Army Corps  
of Engineers ®

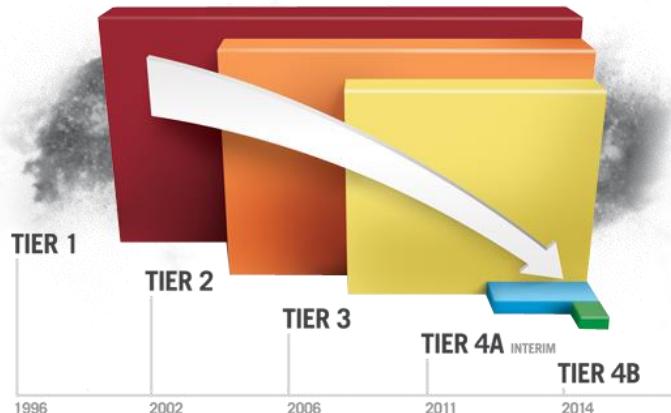


WEDA Safety Commission Panel

*Safety Awards*



# Safety & Regulatory



CAT C7 Tier 3



CAT C7 Tier 4 Final



# Industry Trends

*not market specific*



## AUTOMATION

## Environmental Lubricants



Increased pumping distance



# DREDGING INDUSTRY TRENDS



**Questions?**