USACE Perspective and Evolving Role in Louisiana Coastal Restoration

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US Army Corps of Engineers
BUILDING STRONG



Outline

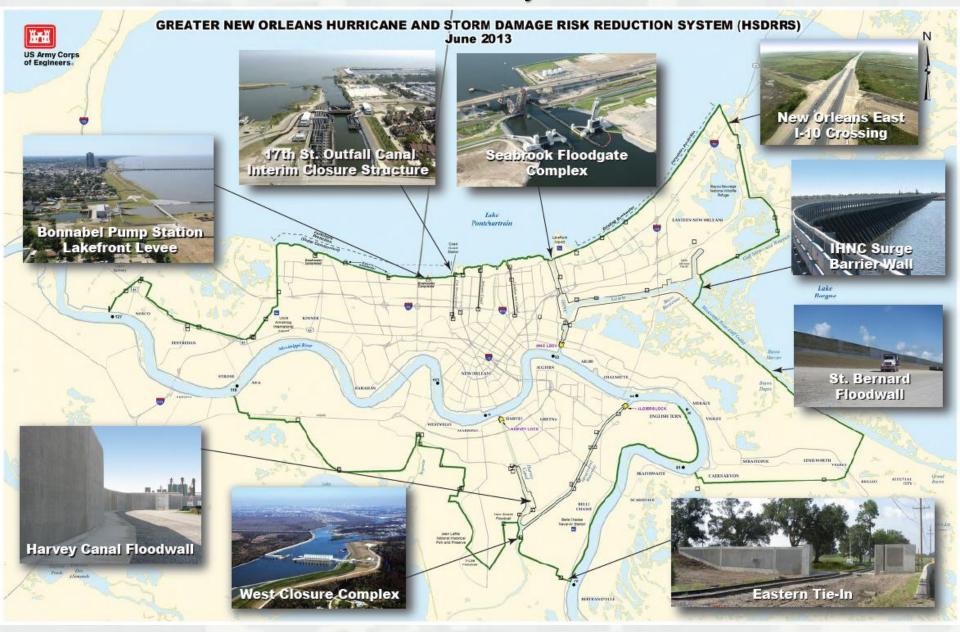
USACE Perspective and Role

Evolving Role

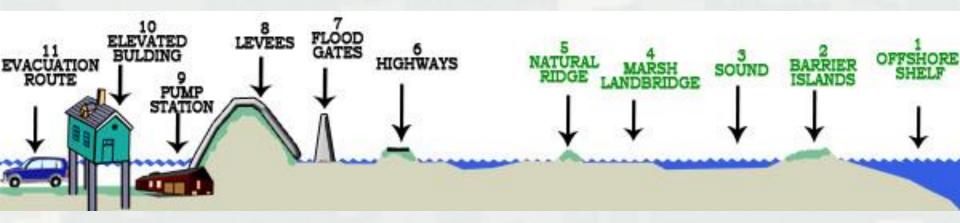
Challenges



Greater New Orleans Hurricane and Storm Damage Risk Reduction System



Multiple Lines of Defense



(Graphic from www.mlods.org)

Elements include:

- Coastal restoration/protection
- Structural measures
- Non-structural features



USACE Perspective and Role

- New Orleans District is actively engaged in ecosystem restoration and planning
 - ► Louisiana Coastal Area (LCA)
 - ▶ MRGO Ecosystem Restoration
 - ► Beneficial Use of Dredge Material
 - Coastal Wetlands Planning, Protection and Restoration Act Program
- All efforts focus on environmental sustainability and balance of interests

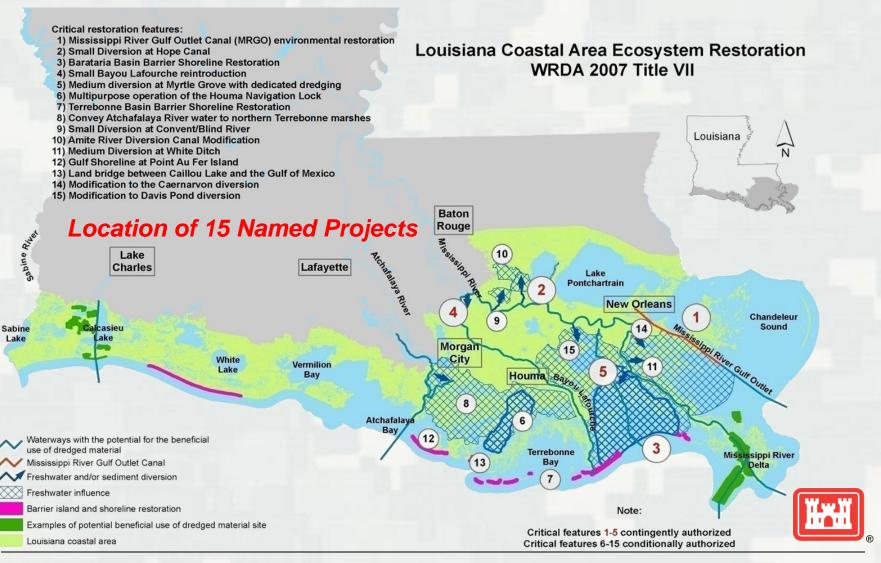




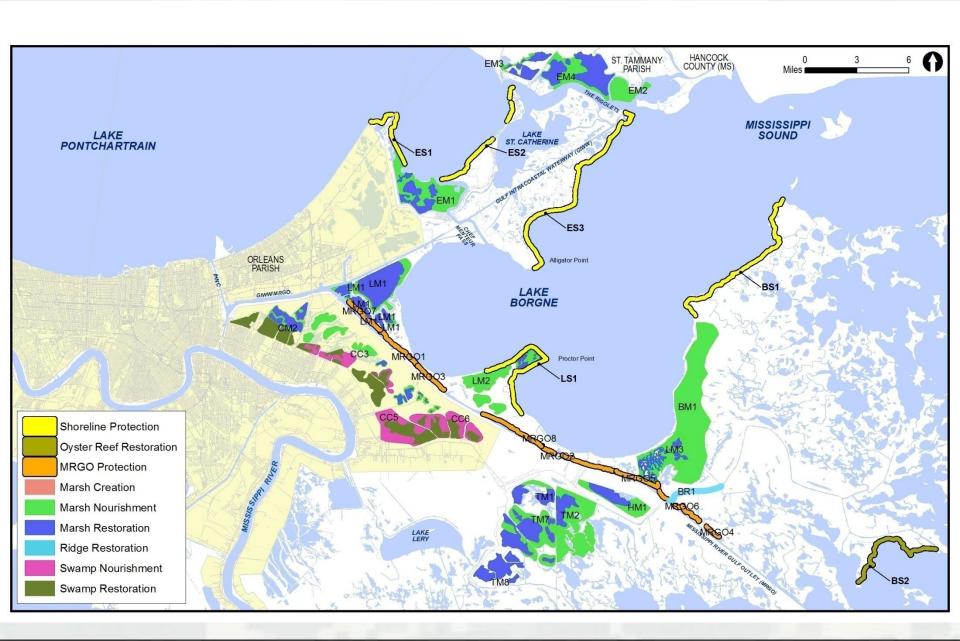
Foundation of Sound Science and Engineering



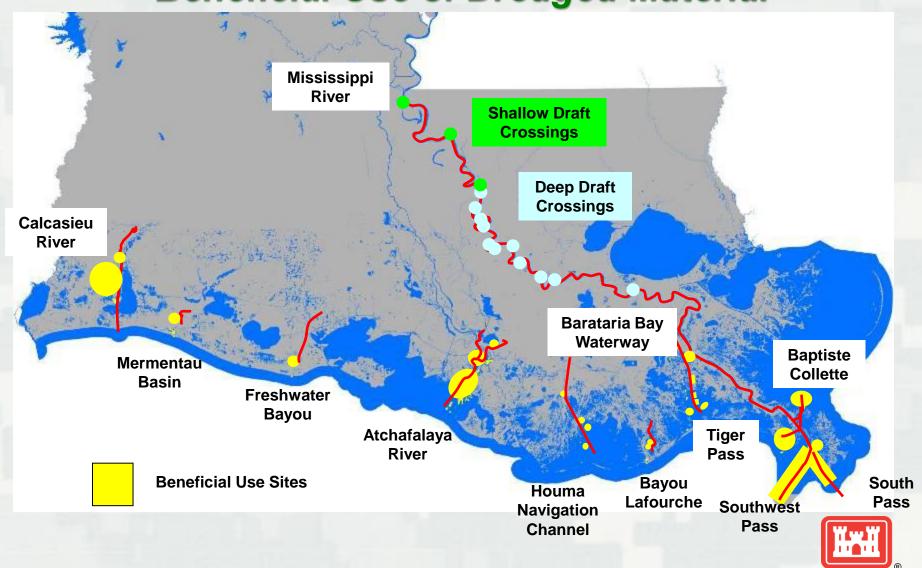
Louisiana Coastal Area (LCA) Near-Term Plan



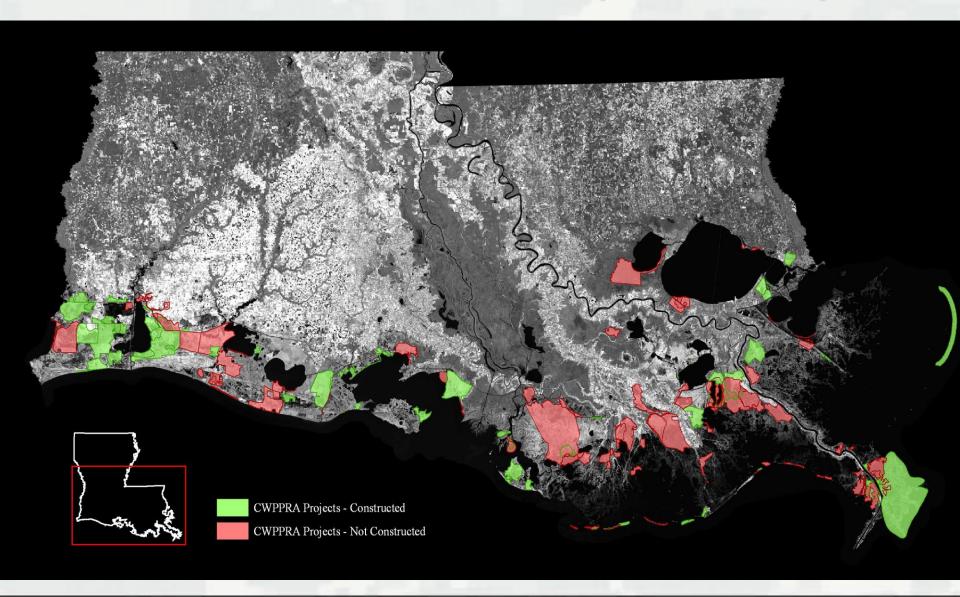
MRGO Ecosystem Restoration Plan



O&M Program Beneficial Use of Dredged Material



Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA)



Priority: Supporting Gulf Coast Restoration

- ► Maximize use of opportunities
- ► Support RESTORE Council
- ► Alignment with NFS
- ► Permitting capacity
- ► Using best available science in decision making



Maximize Use of Opportunities LCA Elements Currently Being Advanced

Diversions

- Medium Diversion at White Ditch
- Small Diversion at Convent/Blind River
- Medium Diversion at Myrtle Grove

Barrier Islands

- ► Barataria Basin Barrier Shoreline
- Land and Marsh Creation
 - ▶ Beneficial Use of Dredge Material
- Science and Engineering
 - ► Mississippi River Hydro/Delta Management
 - Above cited feasibility and design efforts



Alignment with NFS/Permitting Capacity



Advancing Science and Engineering Mississippi River Hydro/Delta Management Study

- Feasibility study initiated Aug 2011
 - ► Detailed modeling of Mississippi River, from Old River Control Structure to Gulf
 - ► Assess impacts of:
 - Existing/planned diversions on navigation
 - Sediment Transport
 - Flow patterns
 - Impact of 2 large diversions above Head of Passes
- Incorporate lessons learned from previous efforts
- Balance navigation, flood risk management and ecosystem restoration



Challenges & Issues

- Funding
- Available Science
- Willing Non-Federal Sponsor
- Divergent Viewpoints

