2018 STATE OF THE COAST

MISSISSIPPI RIVER SEDIMENT DIVERSION PROGRAM – THE STATE OF THE PROGRAM

BRAD BARTH



MID-BASIN SEDIMENT DIVERSION

PROGRAM

Vision: Building and sustaining land in the Barataria and Breton Basins by reconnecting the river.

Mission: Improve Louisiana's Coastal sustainability through CMP's five objectives, flood protection, natural processes, coastal habitat, cultural heritage, and a working coast.

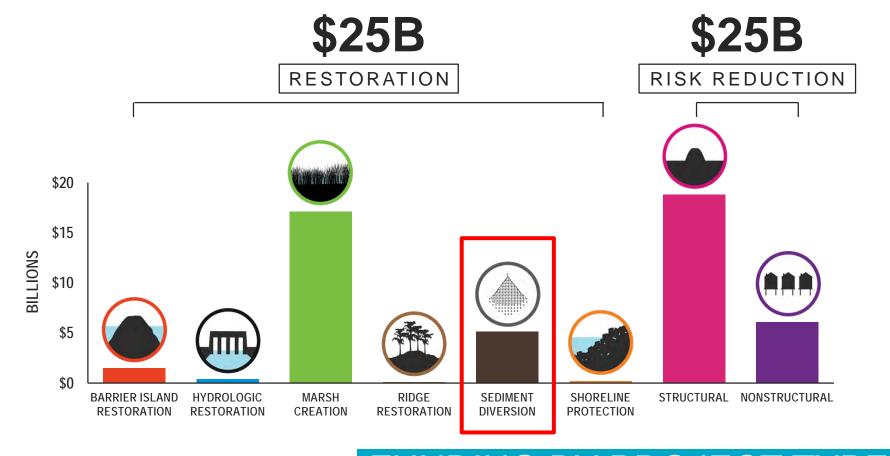




COASTAL MASTER PLAN

TOTAL FUNDING:

\$50B





FUNDING BY PROJECT TYPE

COASTAL MASTER PLAN

21% DIVERSIONS 79% DREDGING

SEDIMENT DELIVERY: \$23.8B

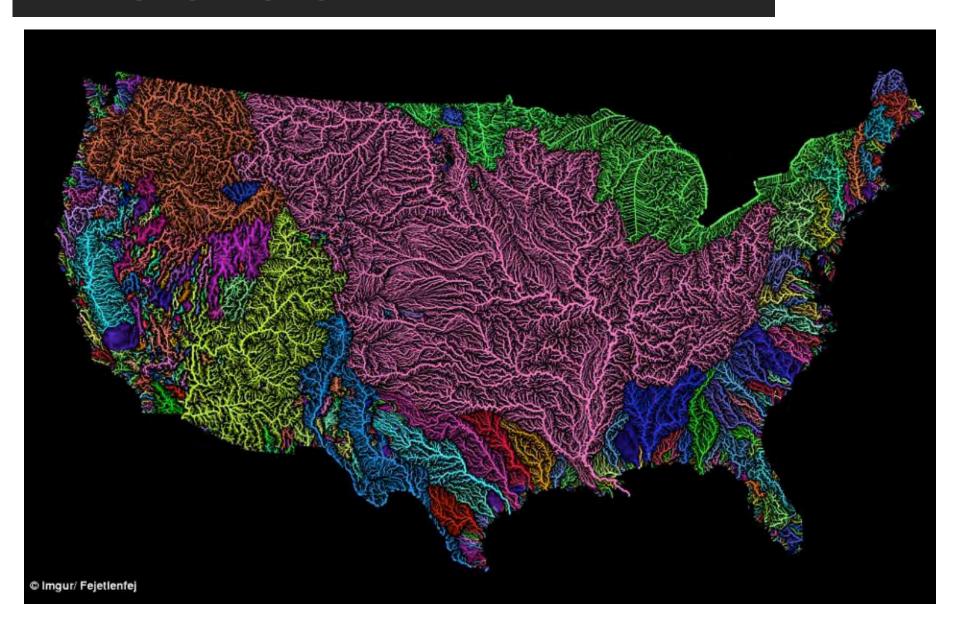


LOUISIANA'S LAND LOSS

.006 SQU Gulf of Mexico LAND LOST LAND GAINED



MISSISSIPPI RIVER



WHY ARE WE IN THIS

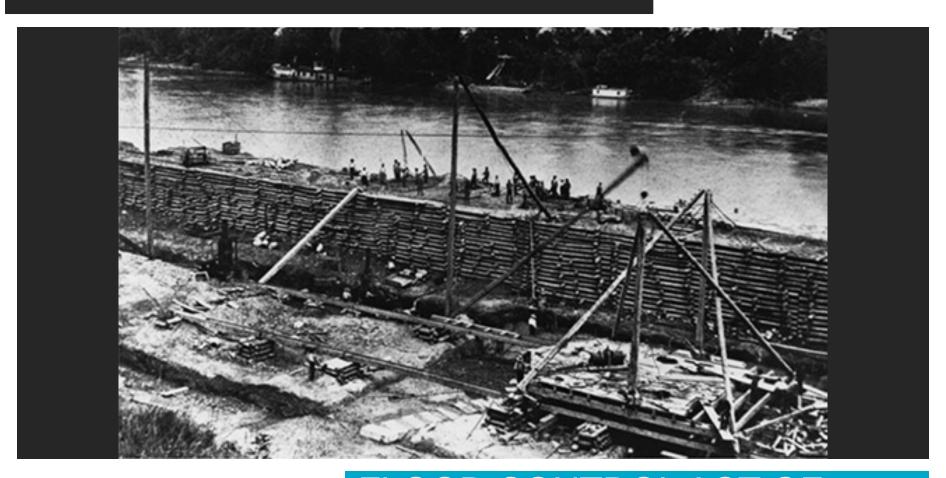
PREDICAMENT?



GREAT FLOOD OF 1927

WHY ARE WE IN THIS

PREDICAMENT?



FLOOD CONTROL ACT OF 1928



11

HISTORIC LAND LOSS



WASHINGTON D.C.'s



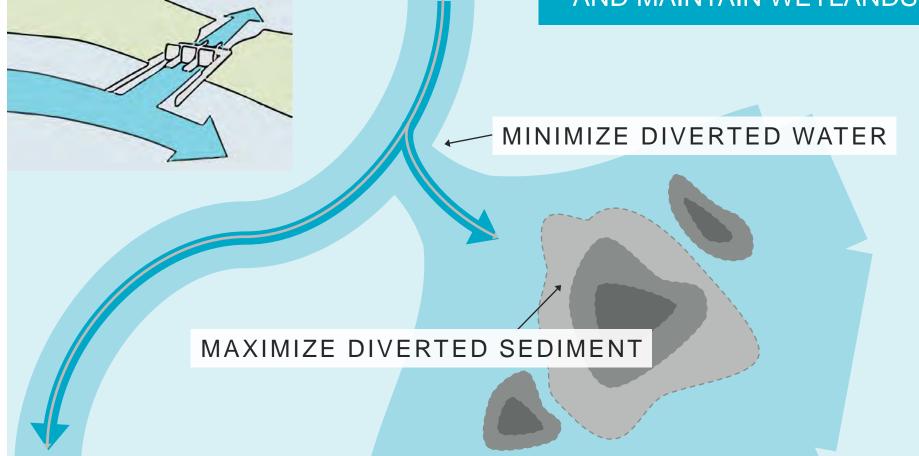


BOLD ACTION IS REQUIRED

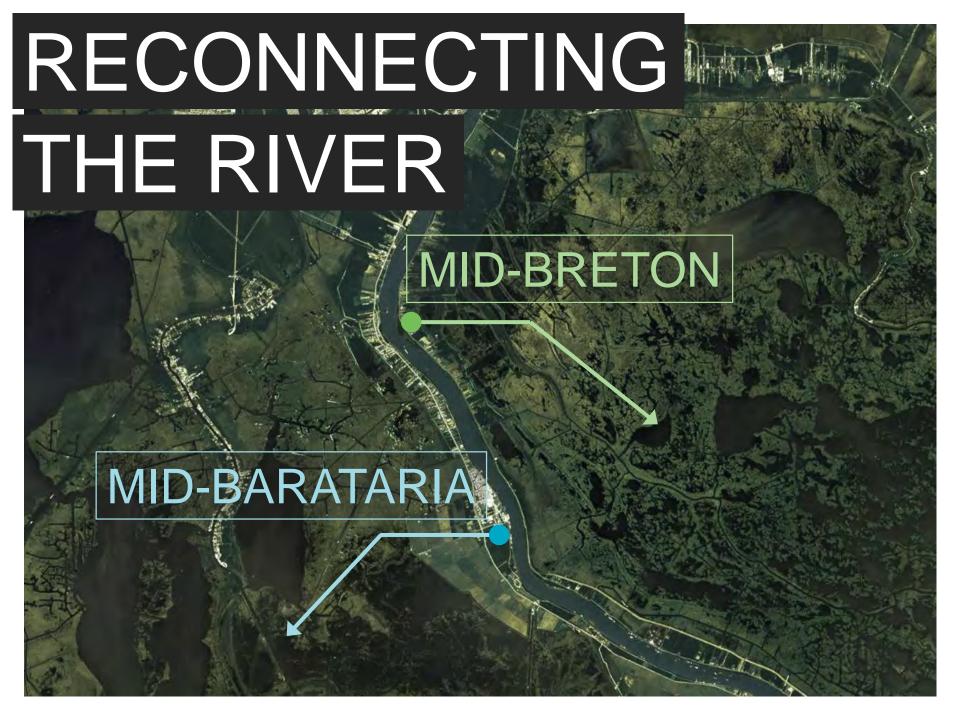
MID-BASIN SEDIMENT DIVERSION PROGRAM

SEDIMENT DIVERSIONS

- BUILD AND SUSTAIN LAND
- INCREASE NUTRIENTS
 AND SEDIMENT
 DEPOSITION TO SUSTAIN
 AND MAINTAIN WETLANDS







PROJECTED COSTS AND FUNDING \$696M





















FUNDING STREAMS

FUNDING OPTIONS RELATED TO DEEP WATER HORIZON:

State of Louisiana The Honorable John Bel Edwards, Governor Louisiana's Comprehensive Master Plan for a Sustainable Coast committed to our coast Effective June 2, 2017

\$1.2B

CRIMINAL FINES/NFWF

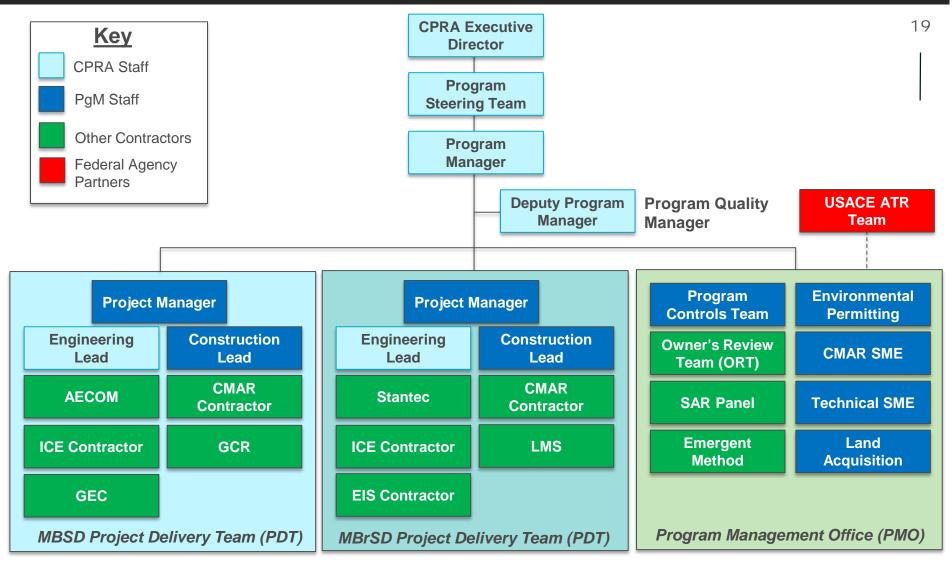
\$988M

CIVIL FINES/ RESTORE ACT \$5B

NATURAL RESOURCE DAMAGE



PROGRAM ORGANIZATIONAL CHART



Program Management Team (PMT)



20

PERMITTING AND CONSTRUCTION

APPROVALS

START EIS

NEPA COMPLIANCE

408 APPROVAL (USACE)

COASTAL USE (LDNR), NAVIGATION, **AND WETLANDS**

- Section 10 (USACE Navigation)/404 (USACE Wetlands) and Coastal Use Permit (INDR CUP)
- Permit Public Notice and Comment
- Coastal Use Permit
- Coastal Use Permit Public Act **Notice and Comment**
- Coastal Use Permit Approval
- Section 10/404 Approval
- Project Implementation and Monitoring

NATIONAL ENVIRONMENTAL POLICY ACT

- Solicitation of Views (2013)
- Notice of Intent for EIS
- Start EIS
- Public scoping meeting
- Draft EIS
- USACE (HQ/MVD) Approves Draft EIS for Release
- Public Comment on Draft EIS
- Final EIS
- Public Review on Final EIS
- Complete EIS (Record of Decision)

REQUEST TO ALTER A FEDERAL PROJECT OR PROJECT WITH FEDERAL INTEREST NO DIRECT PUBLIC INVOLVEMENT

- 408 Request
- 60% Plans and Specifications Review
 - District PDT
 - Agency Technical Review (ATR)
 - IEPR-SAR Review
- USACE (HQ/MVD) Preliminary 408 Approval
- Record of Decision (408)
- 408 Approval
- 408 Construction Oversight







COASTAL PERMIT

Authorization to execute a project in Louisiana's Coast Zone that is in compliance with the guidelines of the Louisiana Coastal Resources Program

404/10 PERMIT

Authorization for the construction of any structure in or over any navigable water and the discharge of fill material into the wetlands

408 REQUEST

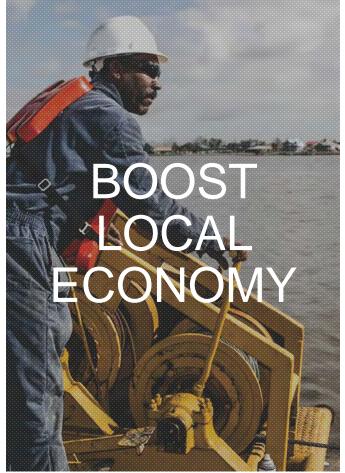
Authorization for the alteration of a USACE civil works project if the Secretary determines the activity will not be injurious to public interest and will not impair the usefulness of the project



PROJECT BENEFITS







FACTORS USED TO DETERMINE LOCATION



PROJECT LOCATION PROPOSED PUMP STATION **PROPOSED** R.R. ALIGNMENT **PROPOSED** A 23 BRIDGE PROPOSED DROP STRUCTURE WILKINSON CANAL PUMP STATION

MID-BARATARIA SEDIMENT DIVERSION

PROJECT LOCATION

LOCATION

IRONTON, LOUISIANA

TASKS

- Funding E&D, Construction
- Permitting and Construction Approvals
- Environmental (EIS)
- Land Rights
- Engineering and Design
- Operations

PEAK FLOW

75,000

PROJECT FEATURES

- Inlet, Conveyance Structure, Outlet
- Interior Drainage Pump Station
- Highway Modifications
- Rail Road Modifications





MID-BRETON SEDIMENT DIVERSION

PROJECT LOCATION

LOCATION

WILL'S POINT/ BERTRANDVILLE, LA

TASKS

- Funding E&D, Construction
- Permitting and Construction Approvals
- Environmental (EIS)
- Land Rights
- Engineering and Design
- Operations

PEAK FLOW

35,000

PROJECT FEATURES

- Inlet, Conveyance Structure, Outlet
- Interior Drainage Pump Station
- Highway Modifications





DIVERSION STRUCTURE

INLET CHANNEL

MISSISSIPPI RIVE

TRANSITION STRUCTURE

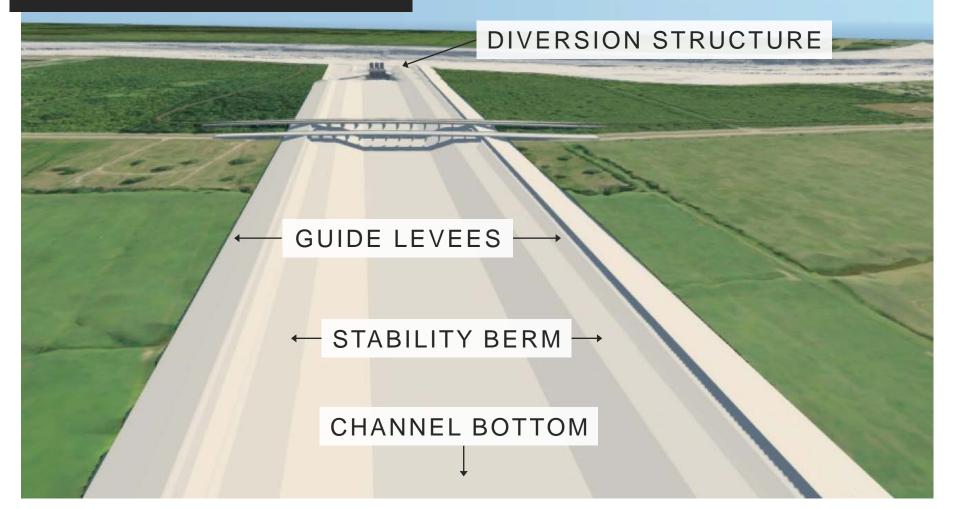
RADIAL ARM GATES

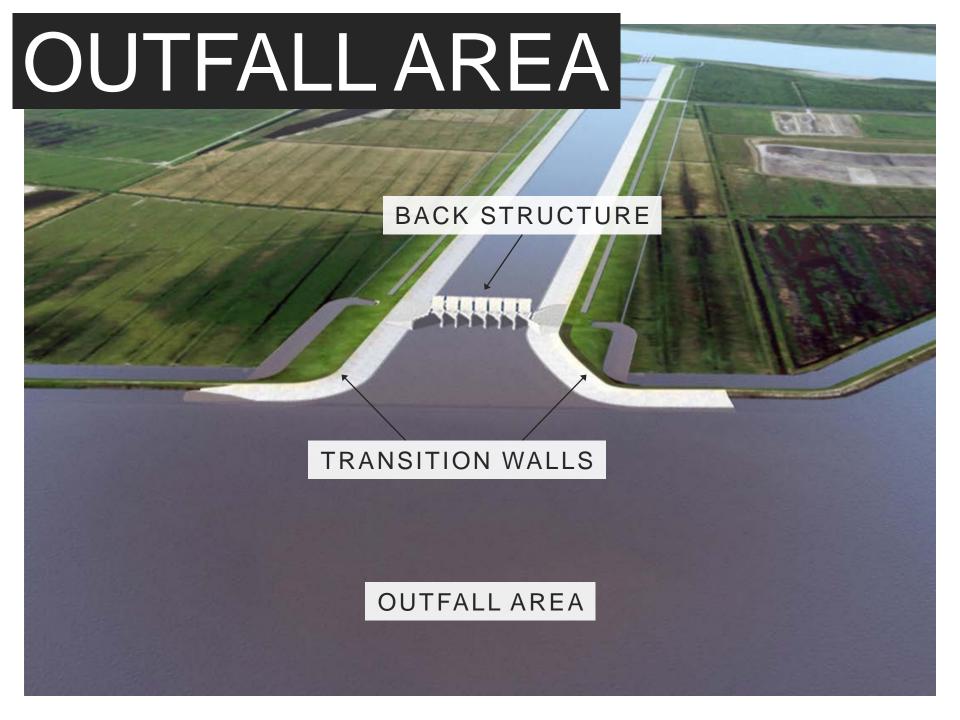
OUTLET CHANNEL

TRANSITION WALLS

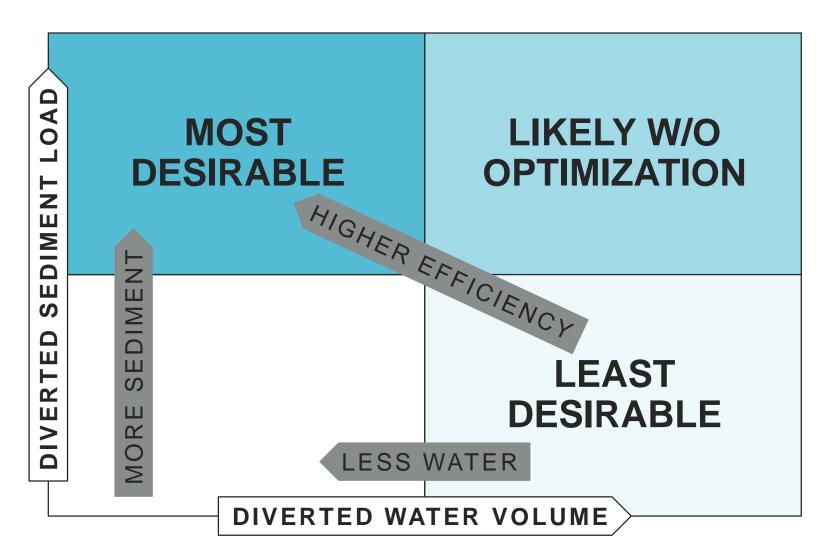
DIVERSION CHANNEL

CONVEYANCE CHANNEL





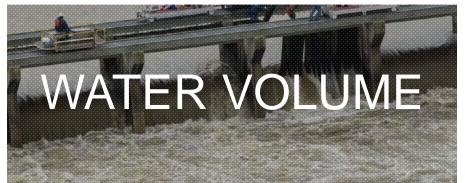
OPERATIONS PLAN





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CONSIDERATIONS











BASIN SIDE

ADAPTIVE MANAGEMENT



Real time monitoring of river side turbidity (supported by frequent/periodical sediment measurements)



Real time monitoring of receiving area salinity, water level, water quality parameters, and natural resources



Forecasting tools to support adaptive management of structures



OPERATIONS STRATEGY

START EIS

- Plan to assess impact to the human environment
- Simple, practical, implementable
- Most opportunistic operations which can avoid, minimize, or if necessary mitigate impact
- Natural Process
- Flexible

FINAL EIS

- Simple, practical, implementable
- Serves as the basic permit conditions for the Section 10/404 Permit
- Natural Process
- Flexible

POST-CONSTRUCTION

- Meets Section 10/404
 Permit
- Real Time Monitoring/ Forecasting Tools
- Natural Process
- Flexible Adaptively
 Manage to Maximize the
 Sediment/Water Ratio,
 the Changing
 Environment, and the
 Measured Project
 Performance



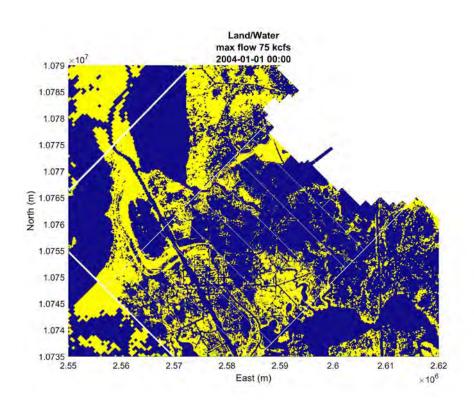
SYNERGISTIC APPROACH

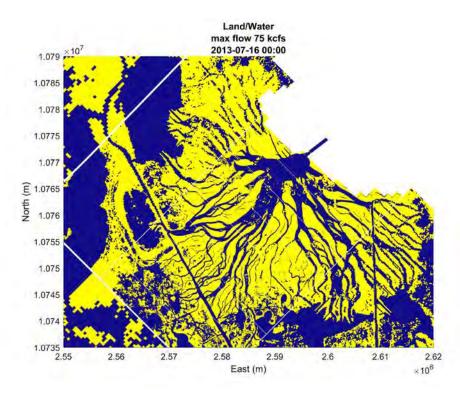


DREDGING + DIVERSIONS = SUSTAINABLE LAND GAIN

LAND/WATER DISTRIBUTION

OUTFALLAREA





INITIAL

AFTER 10 YEARS





39

CURRENT PROJECT ACTIVITY

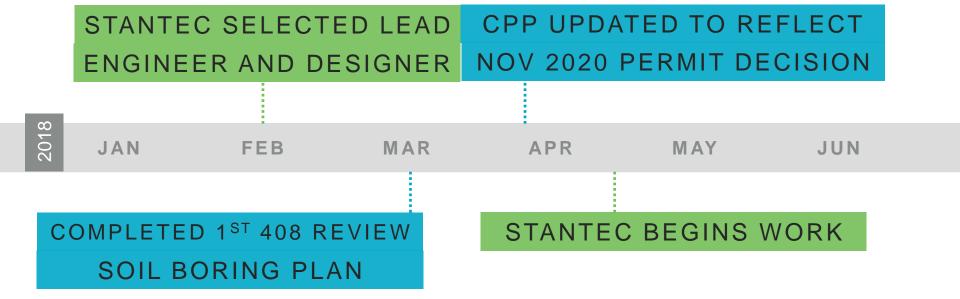
EIS UNDERWAY ENGINEERING AND DESIGN SOLICITATION POSTED PUBLIC SCOPING MEETINGS HELD JULY 20, 25, 27 JUL AUG SEP OCT NOV DEC AECOM SELECTED LEAD CMAR RFQ AECOM BEGINS **ENGINEER AND DESIGNER** AD POSTED WORK





40

CURRENT PROJECT ACTIVITY



MID-BARATARIA

41

SCOPING PROCESS

SCOPING MEETINGS

COMMENTS

20

26

27

SCOPING PERIOD CLOSED SEPTEMBER 5

OVER 100

FROM
OUTSIDE OF
LOUISIANA

OVER **500**

INDIVIDUAL (FORM) LETTERS OVER 40

"AFFILIATIONS"
WITHIN
COMMENTS



RECENT

ACCOMPLISHMENTS



- Diversion Complex (fastlands)
 - Phase II Cultural Resources
 Complete
- St. Rosalie Plantation (16PL107)
 - Reviewed by SHPO
 - Not Eligible for Nomination to the National Register of Historic Places



ONGOING

WORK / EFFORTS



- Mid-Barataria DEIS Alternative / Impact / Cumulative Impact Analyses
- Mid-Barataria DEIS Affected Environment
- Mid-Barataria Basin Monitoring Plan
- Mid-Barataria CMAR Selection

WORK / EFFORTS





 In-River Monitoring and Sediment Sampling – Breton and Barataria



WORK / EFFORTS



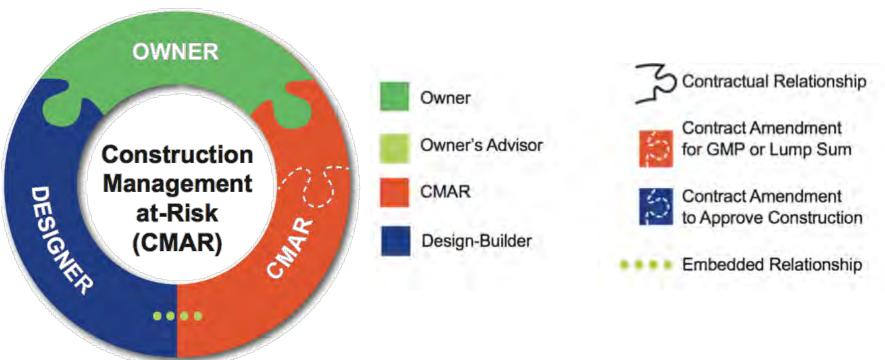


Barataria

- Land Survey
- Aerial Drone Survey/Video
- Traffic Counts



WORK / EFFORTS











2017 OUTREACH

48

AND ENGAGEMENT

MEETINGS



27

PUBLIC OUTREACH EVENTS 18

ADVISORY GROUP MEETINGS 12

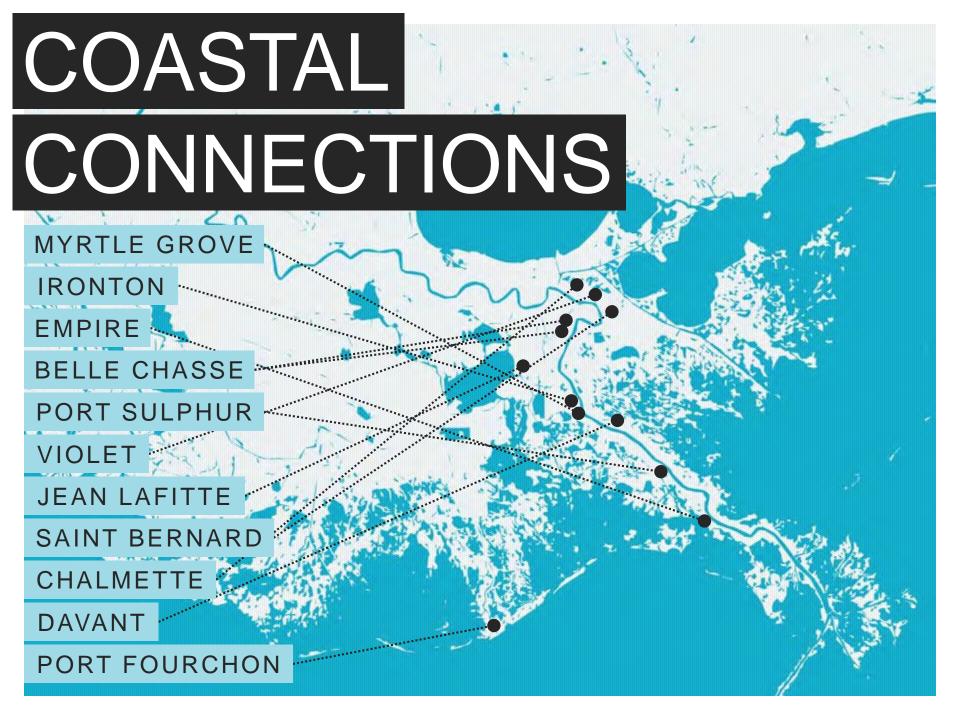
GENERAL PRESENTATION BREIFINGS



4,125

PEOPLE REACHED





COASTAL

50

CONNECTIONS

4,327

MILES TRAVELED 20 COASTAL CONNECTIONS

LOCATIONS

512 ôôôôôôôôô ATTENDEES



RESOURCES

MISSISSIPPI RIVER SEDIMENT DIVERSIONS WEBPAGE



Educational Brochures • Past Presentations • FAQ's

THANK YOU



@LOUISIANACPRA



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