Mid-Basin Sediment Diversion Program

Coastal Protection and Restoration Authority

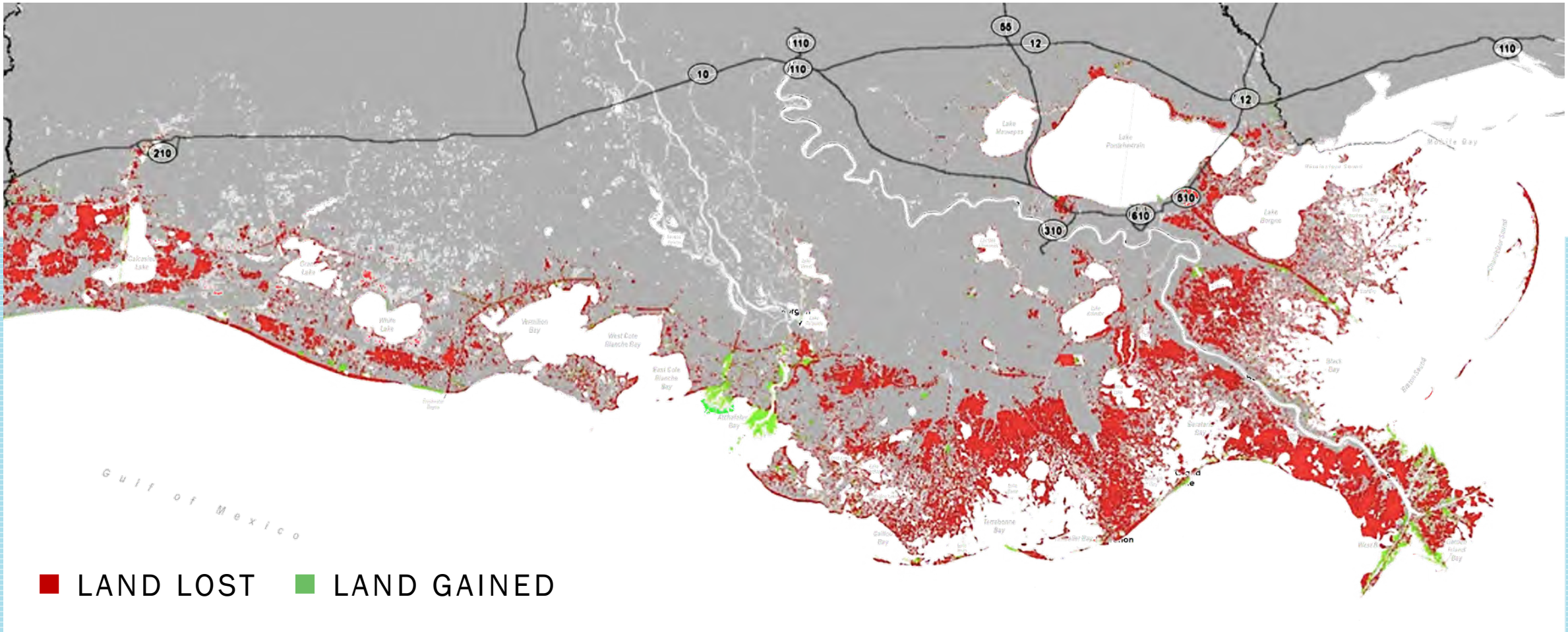
Single state entity with authority to articulate a clear statement of priorities to achieve comprehensive coastal protection for Louisiana.

Mandate is to develop, implement, and enforce a comprehensive coastal protection and restoration master plan.

Louisiana's Land Loss

SINCE 1932

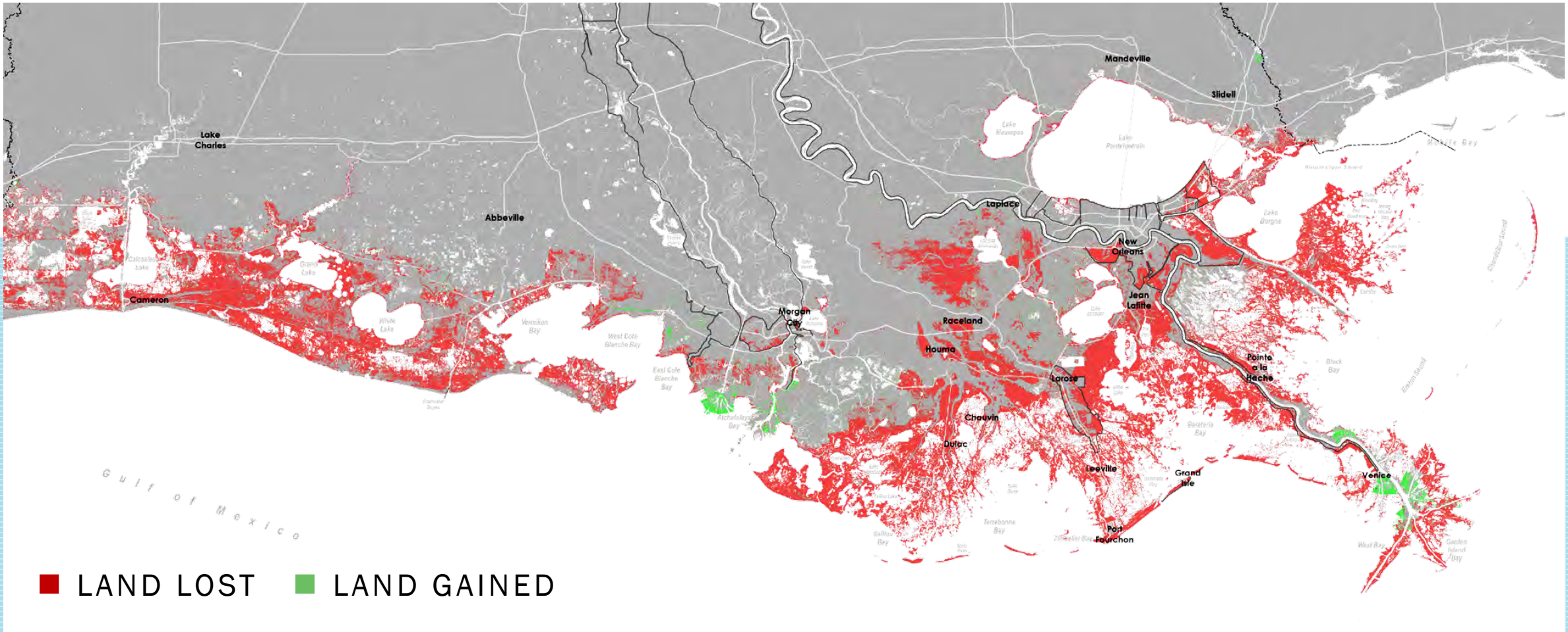
2,006 square miles



What We Stand To Lose

YEAR 50

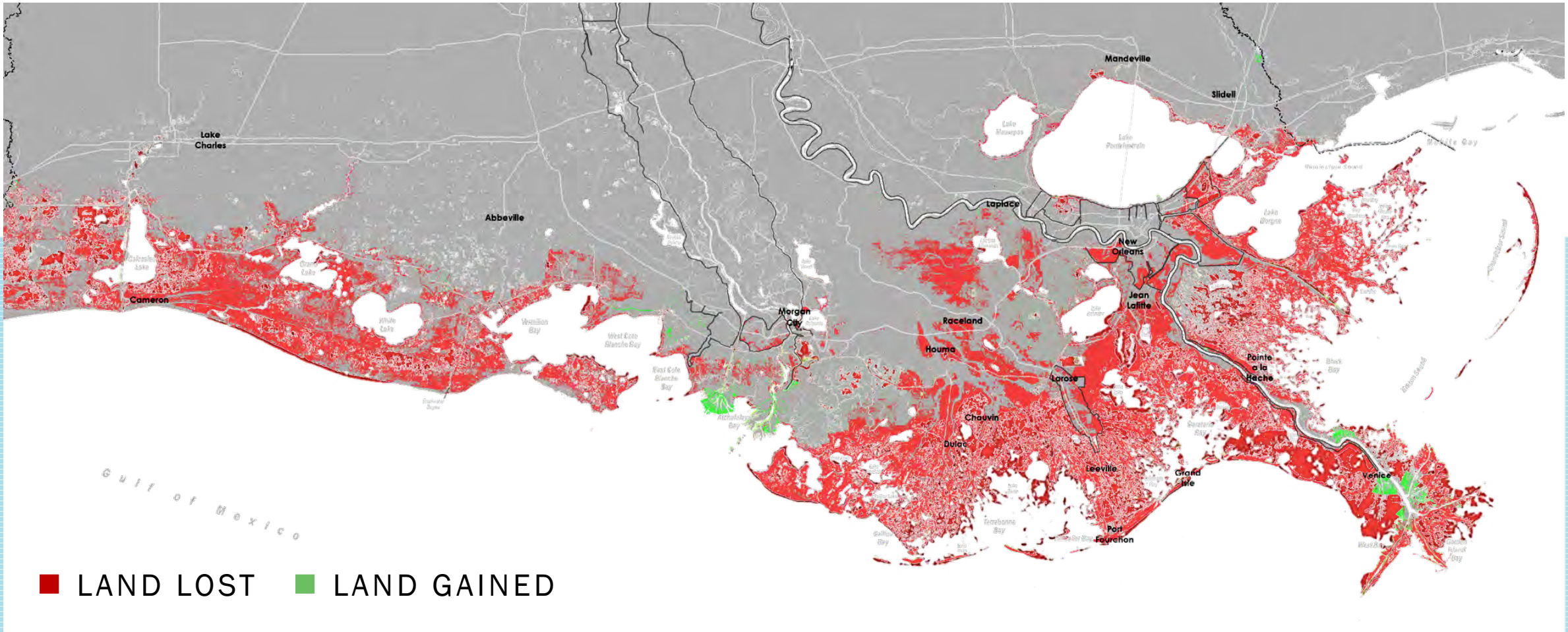
4,200 square miles



What We Stand To Lose

SINCE 1932 + YEAR 50

6,206 square miles



Why are we in this predicament?

THE GREAT FLOOD OF 1927

Coastal Master Plan

$50B total funding

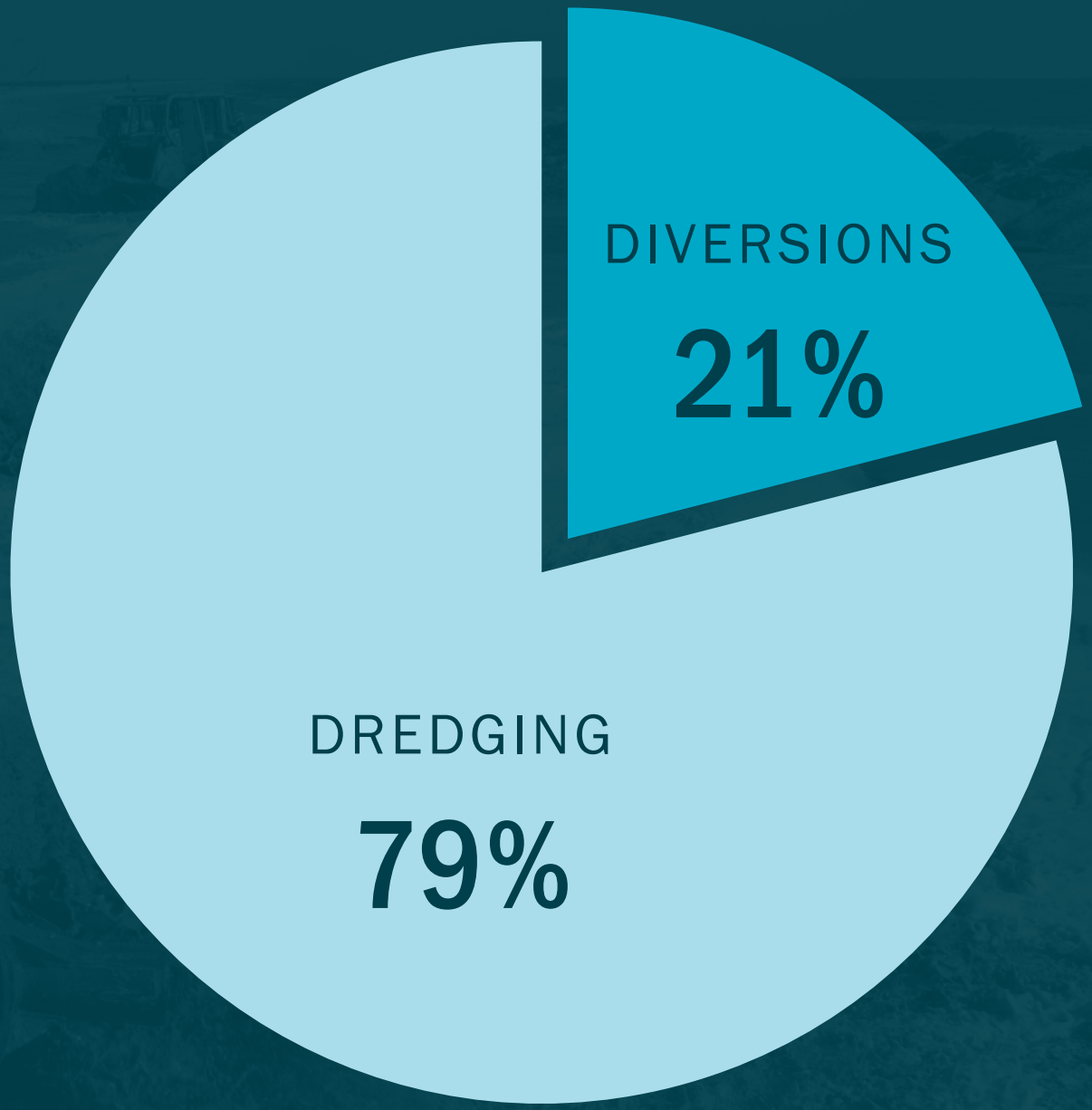
RESTORATION **$25B**

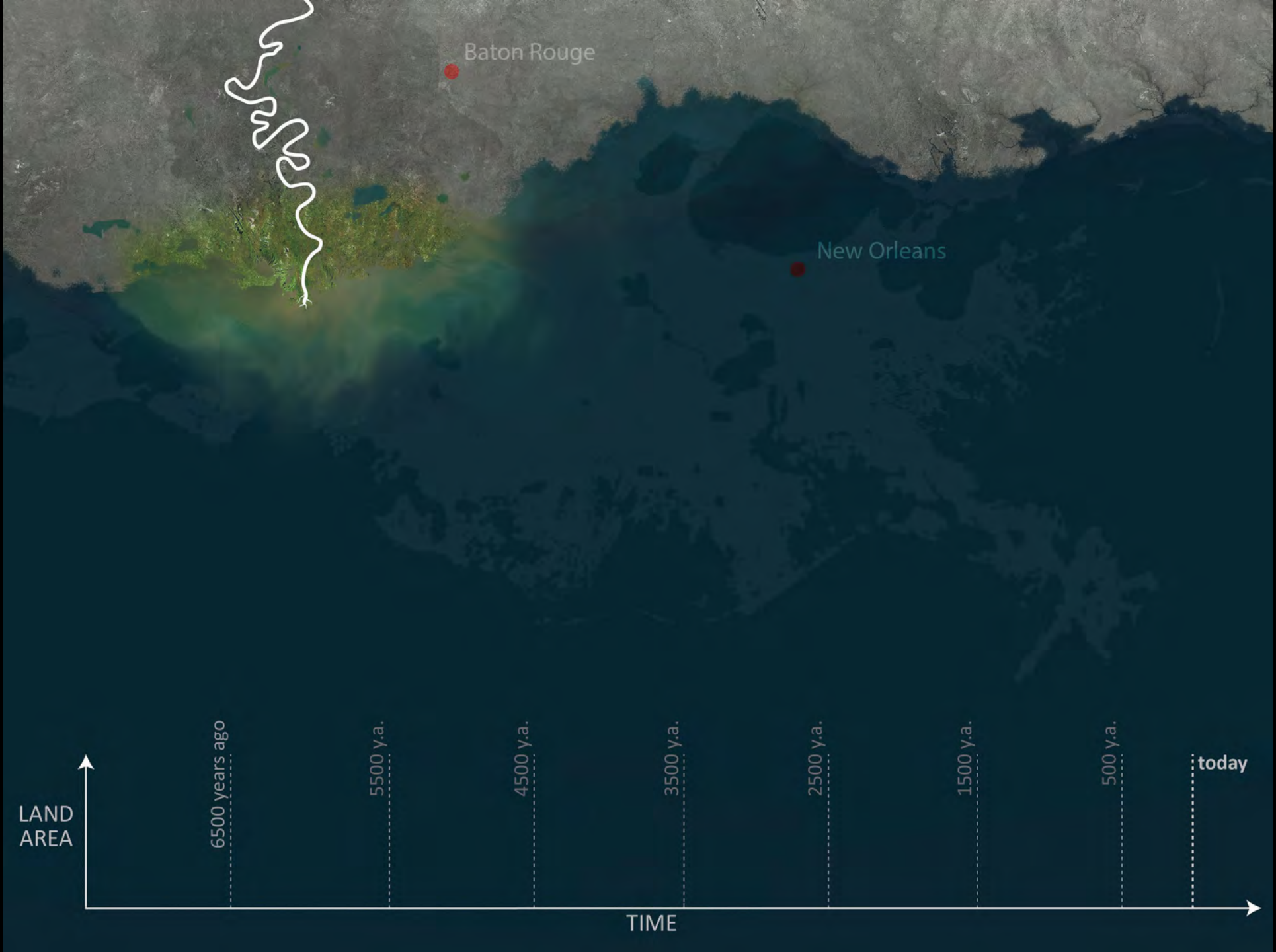
RISK REDUCTION **$25B**

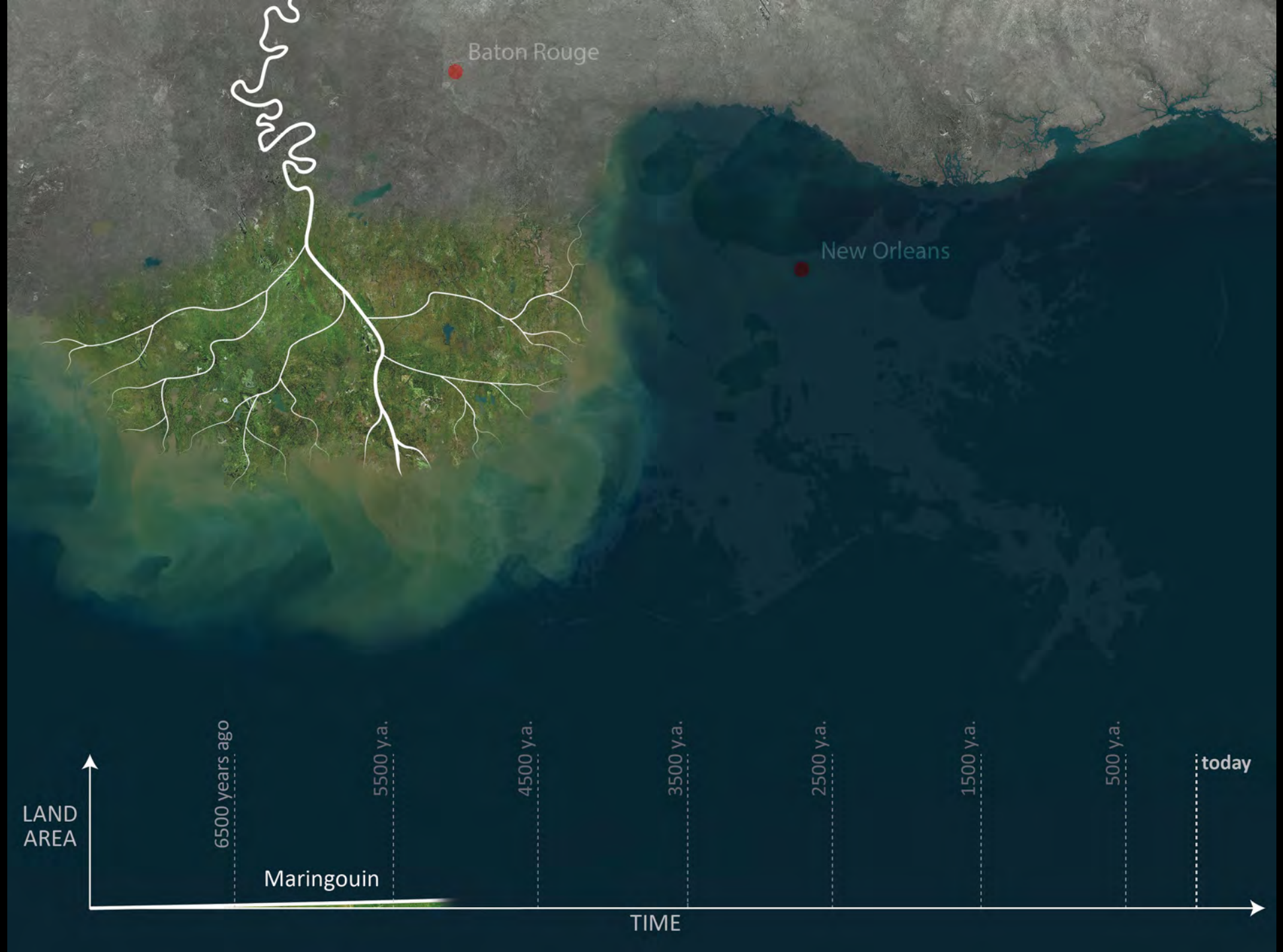
Coastal Master Plan

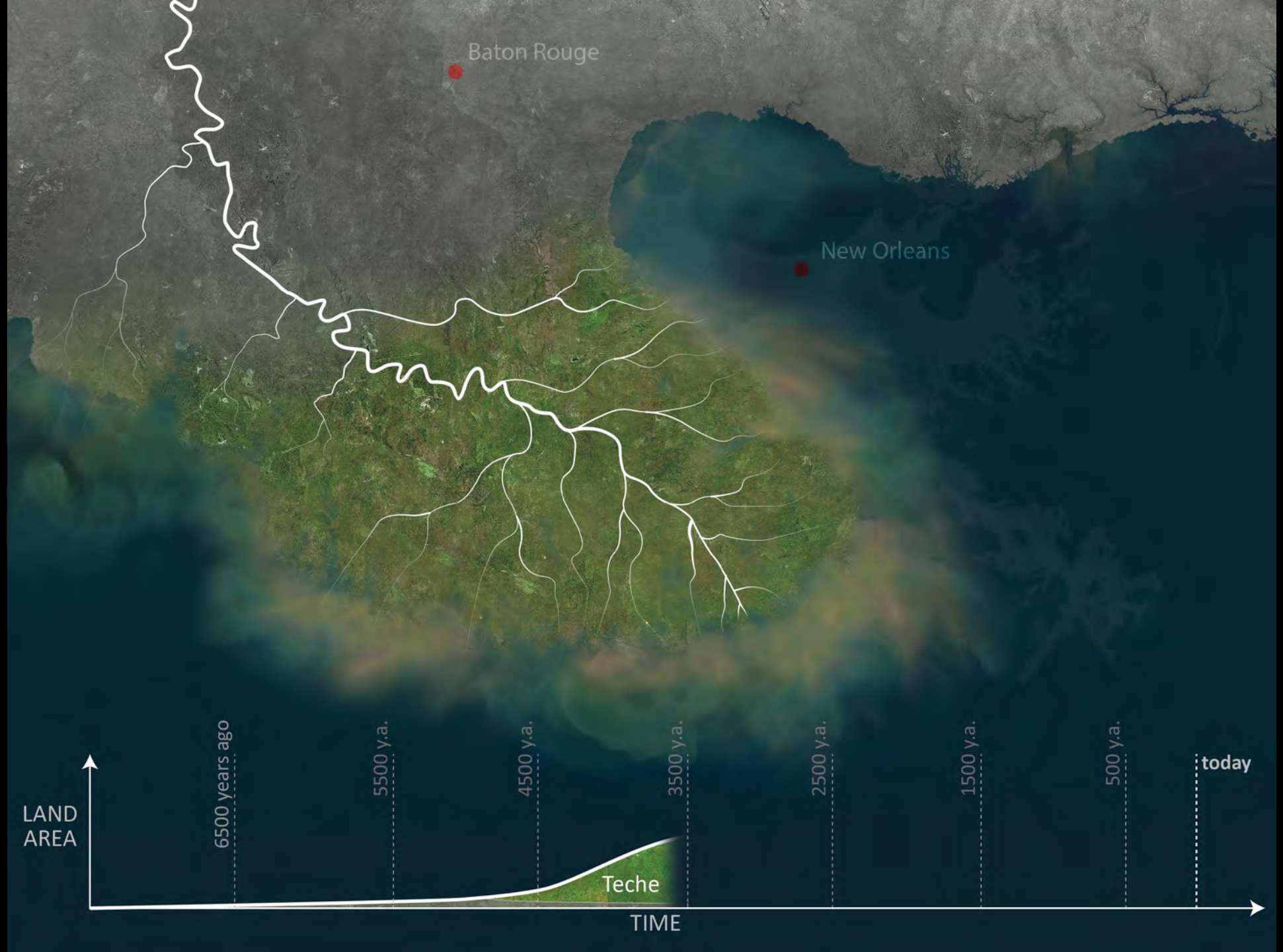
SEDIMENT DELIVERY

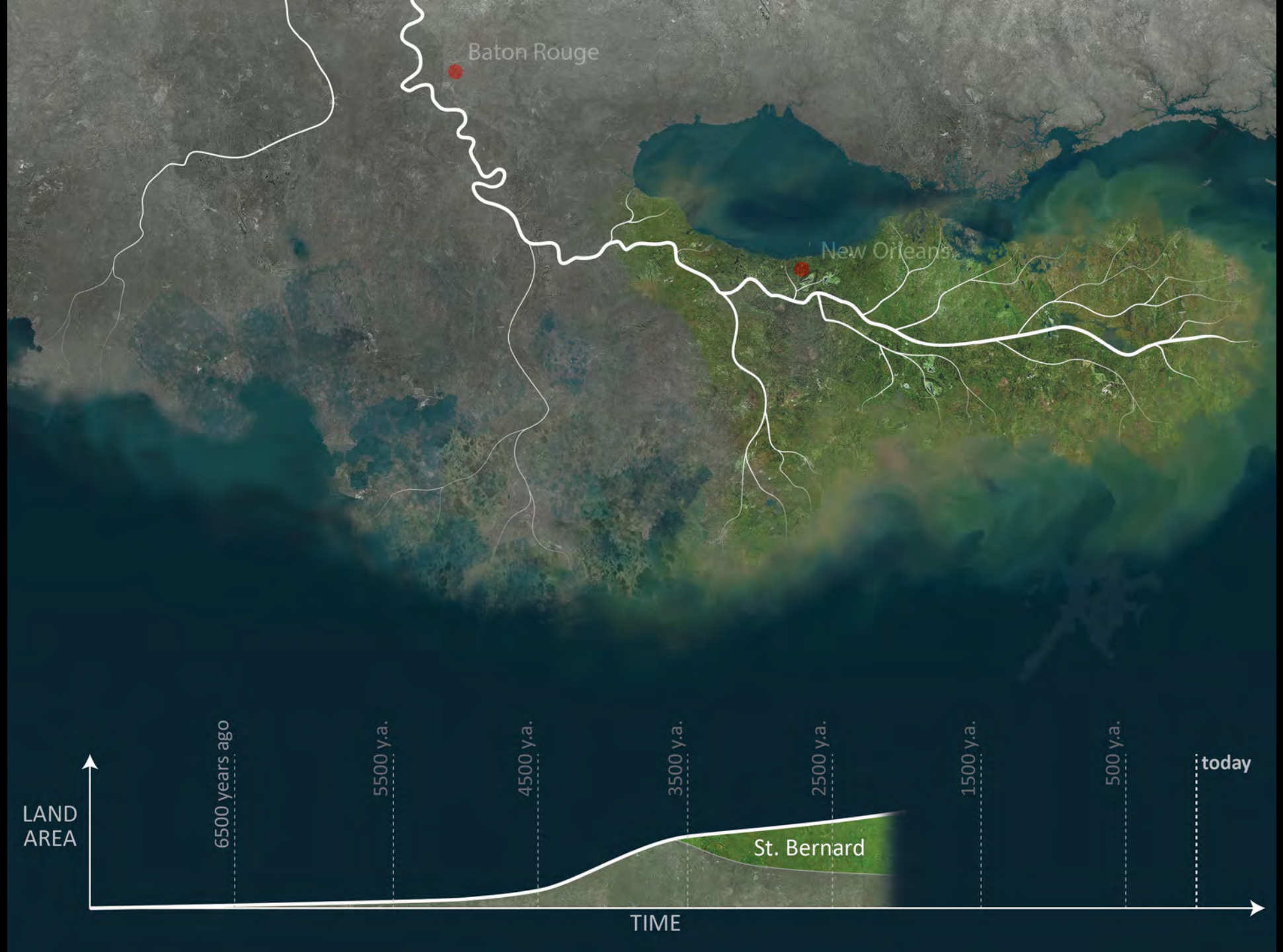
$23.8B




Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
TIME


Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
Maringouin
TIME


Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
Teche
TIME


Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
St. Bernard
TIME

Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
Lafourche
TIME

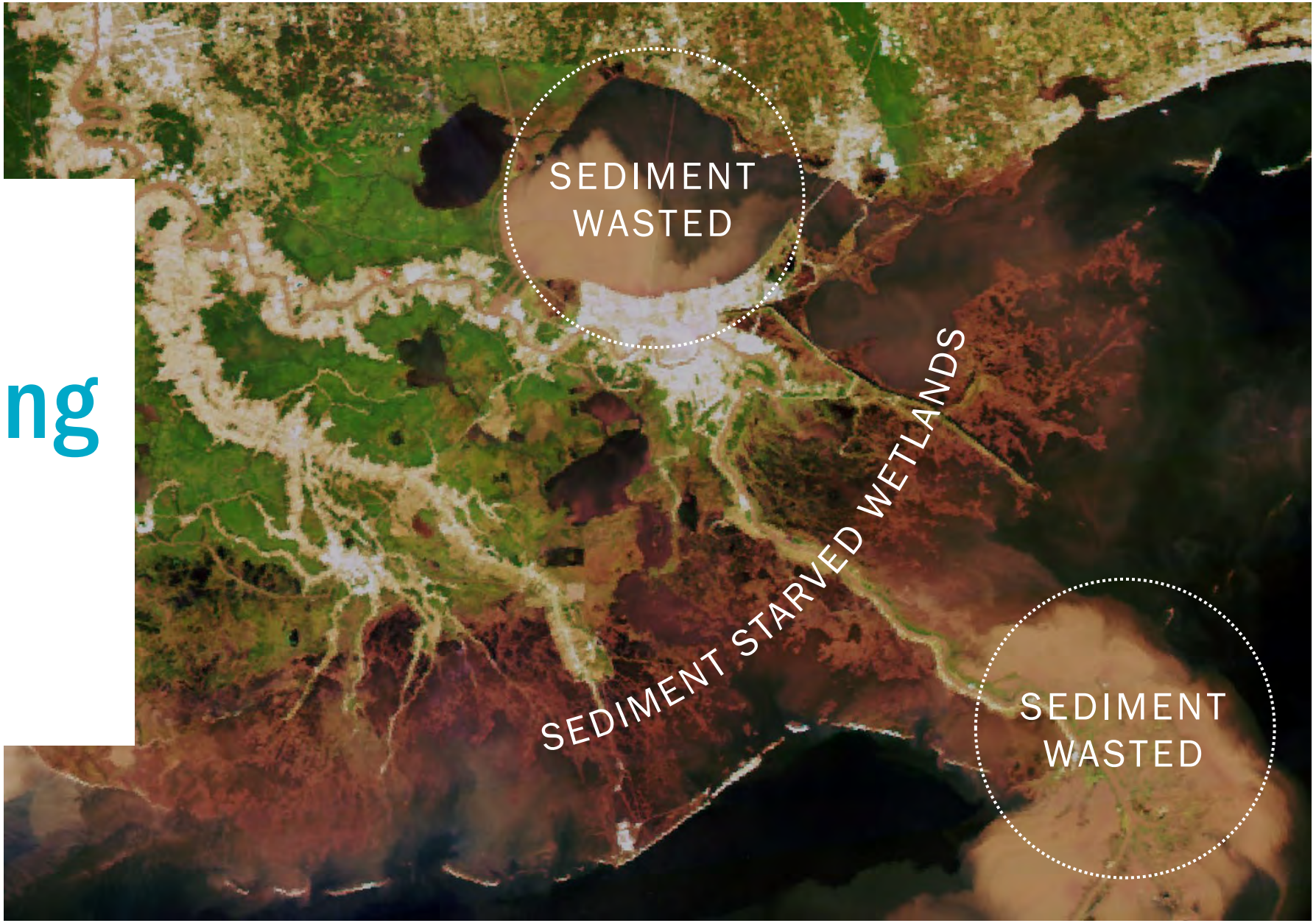
Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
Plaquemines
TIME

Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
levees
TIME

Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
levees
TIME

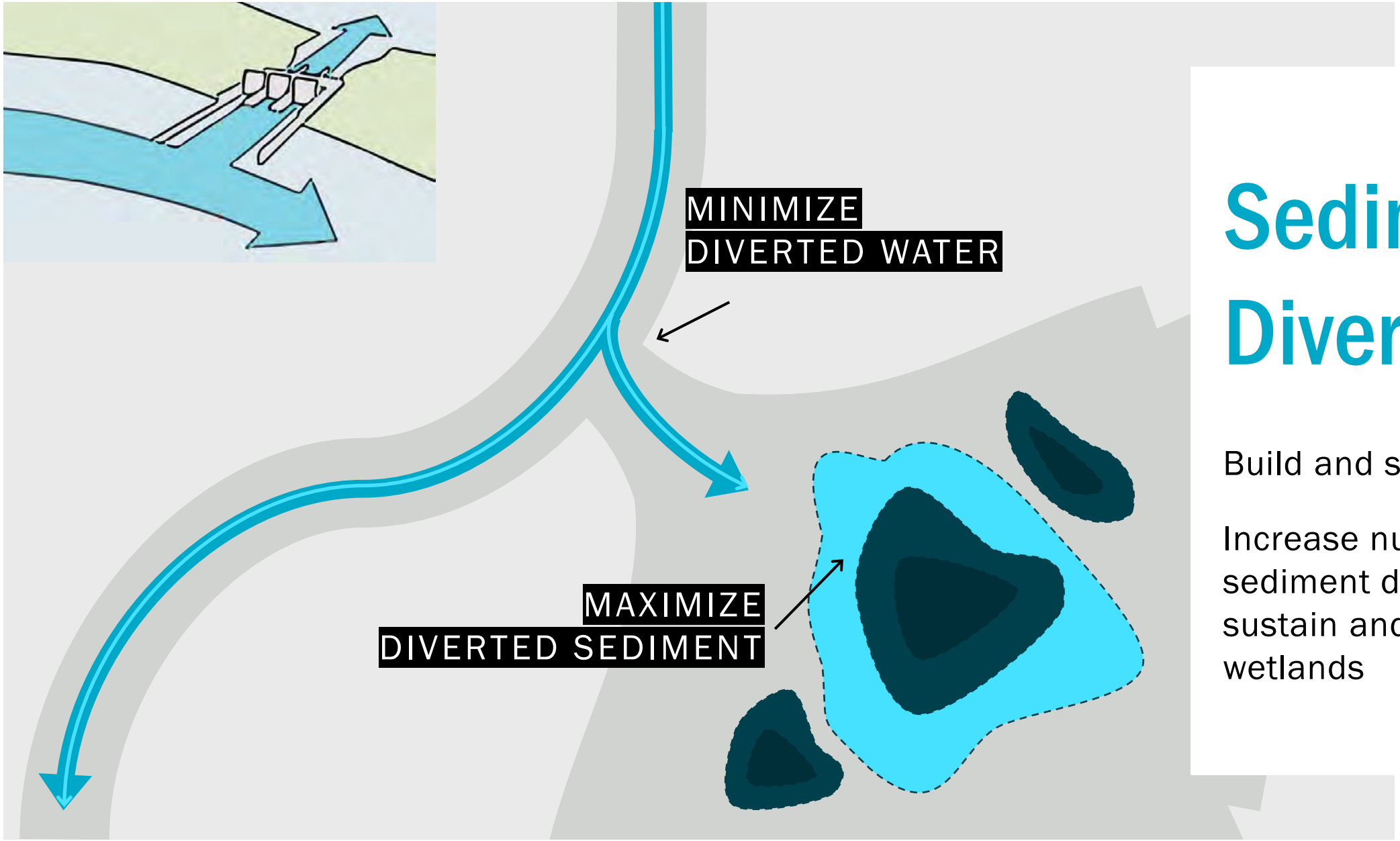
Baton Rouge
New Orleans
LAND AREA
6500 years ago
5500 y.a.
4500 y.a.
3500 y.a.
2500 y.a.
1500 y.a.
500 y.a.
today
levees
TIME

Reconnecting the River



ACCESS TO
SEDIMENT, NUTRIENTS,
AND FRESHWATER
NO ACCESS TO
SEDIMENT,
NUTRIENTS,
AND FRESHWATER

Reconnecting the River

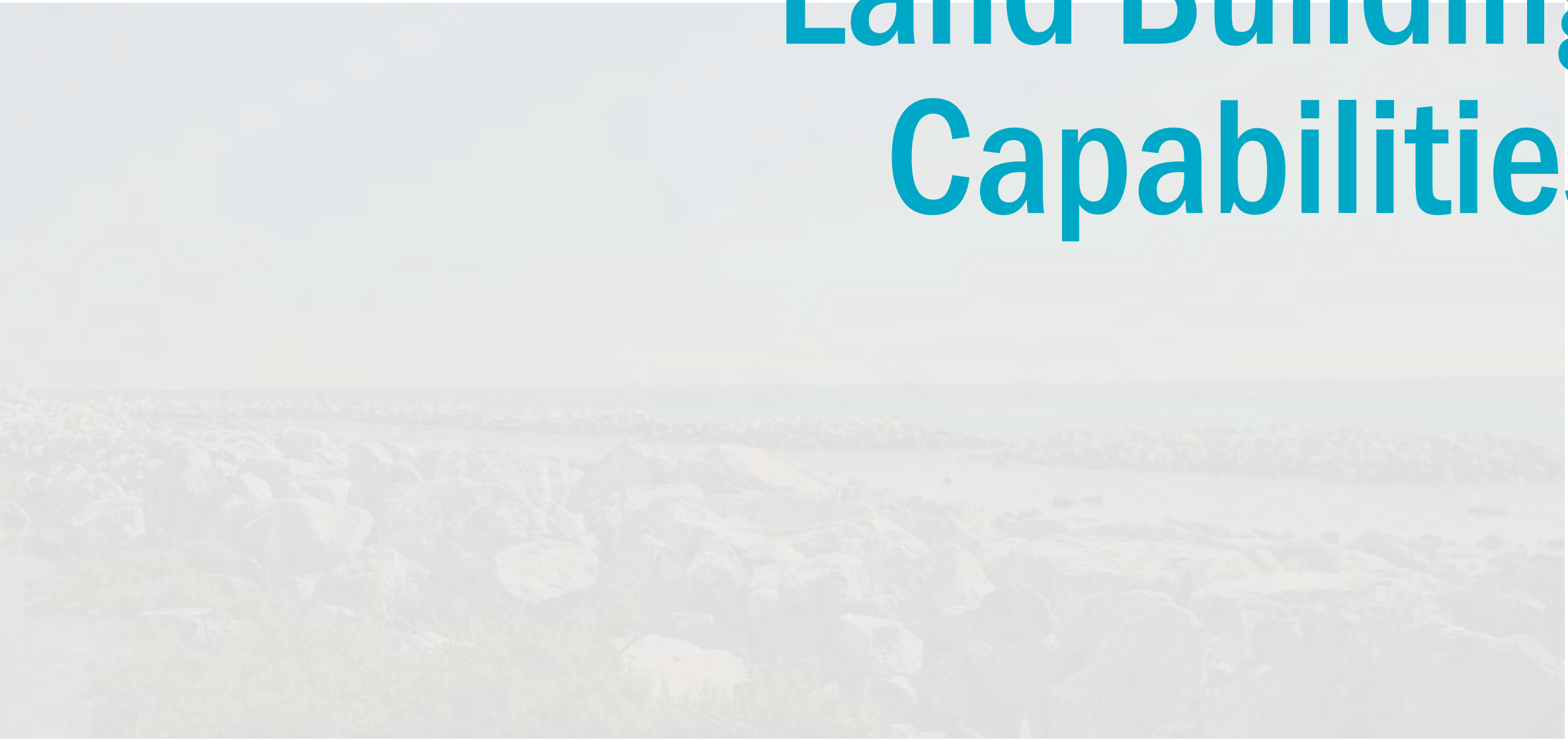


Sediment Diversions

Build and sustain land

Increase nutrients and sediment deposition to sustain and maintain wetlands

Land Building Capabilities



PROVEN SUCCESS

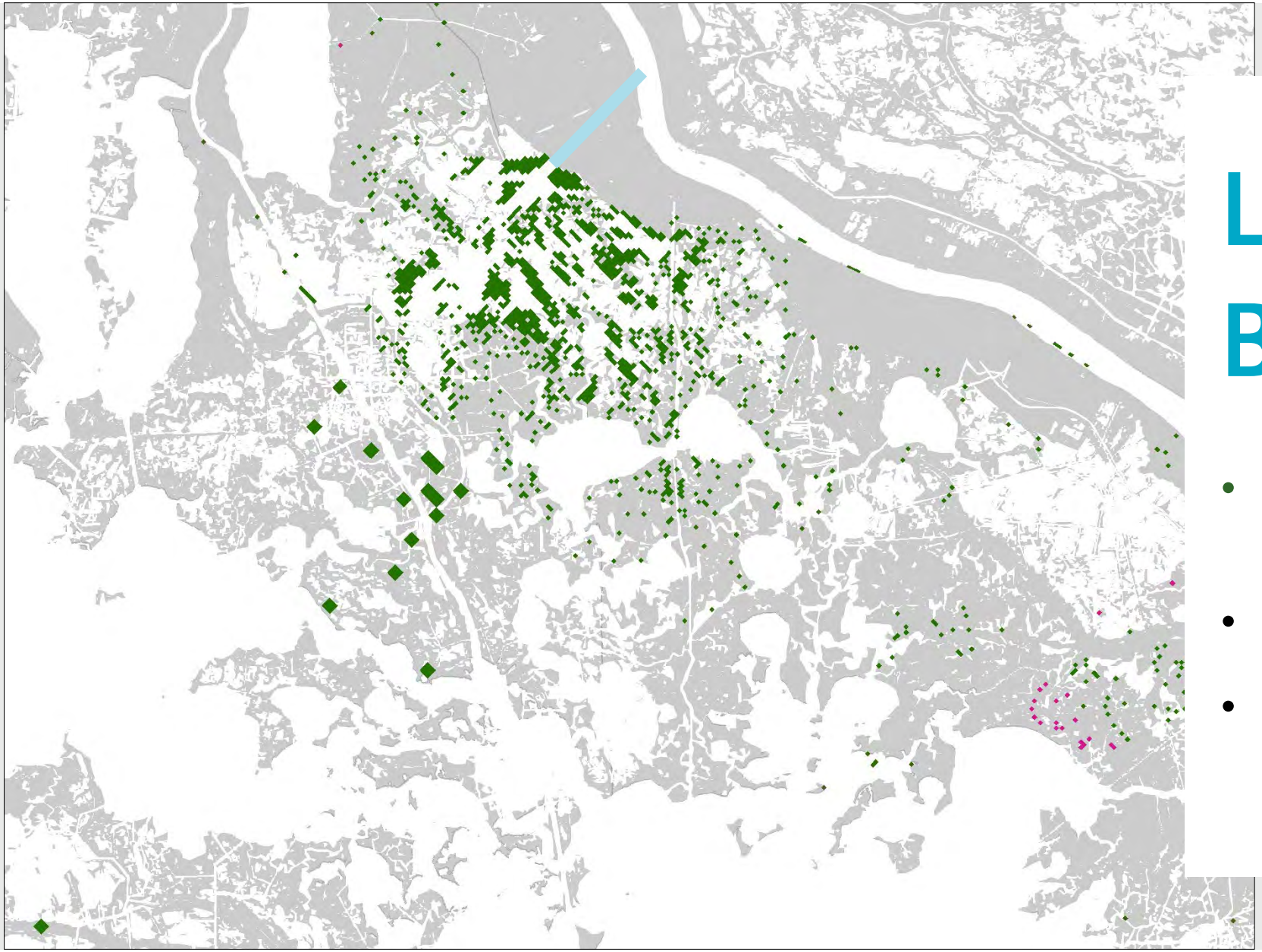
Fort St. Philip

PROVEN SUCCESS

Davis Pond

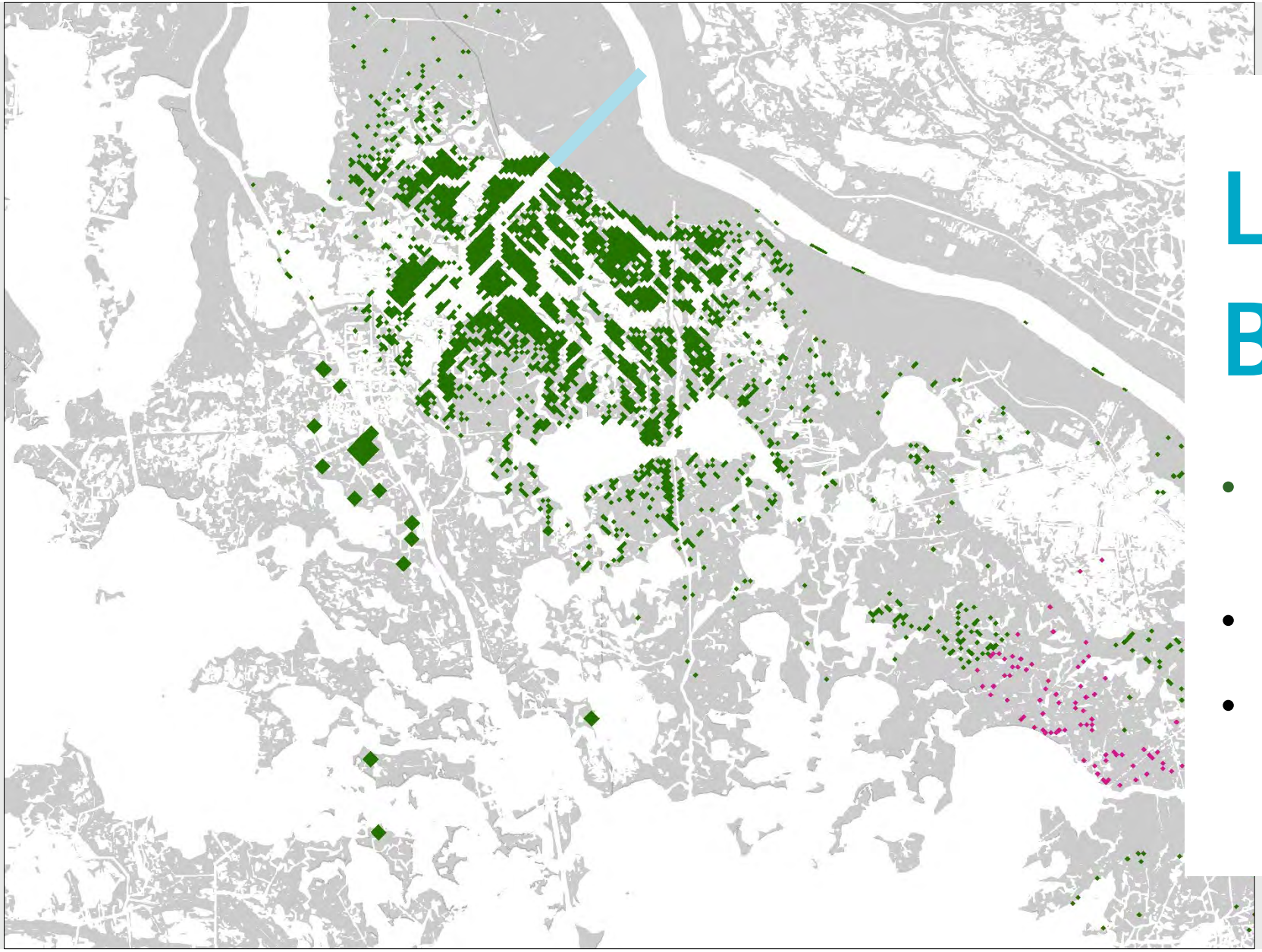
PROVEN SUCCESS

Pivach Cut



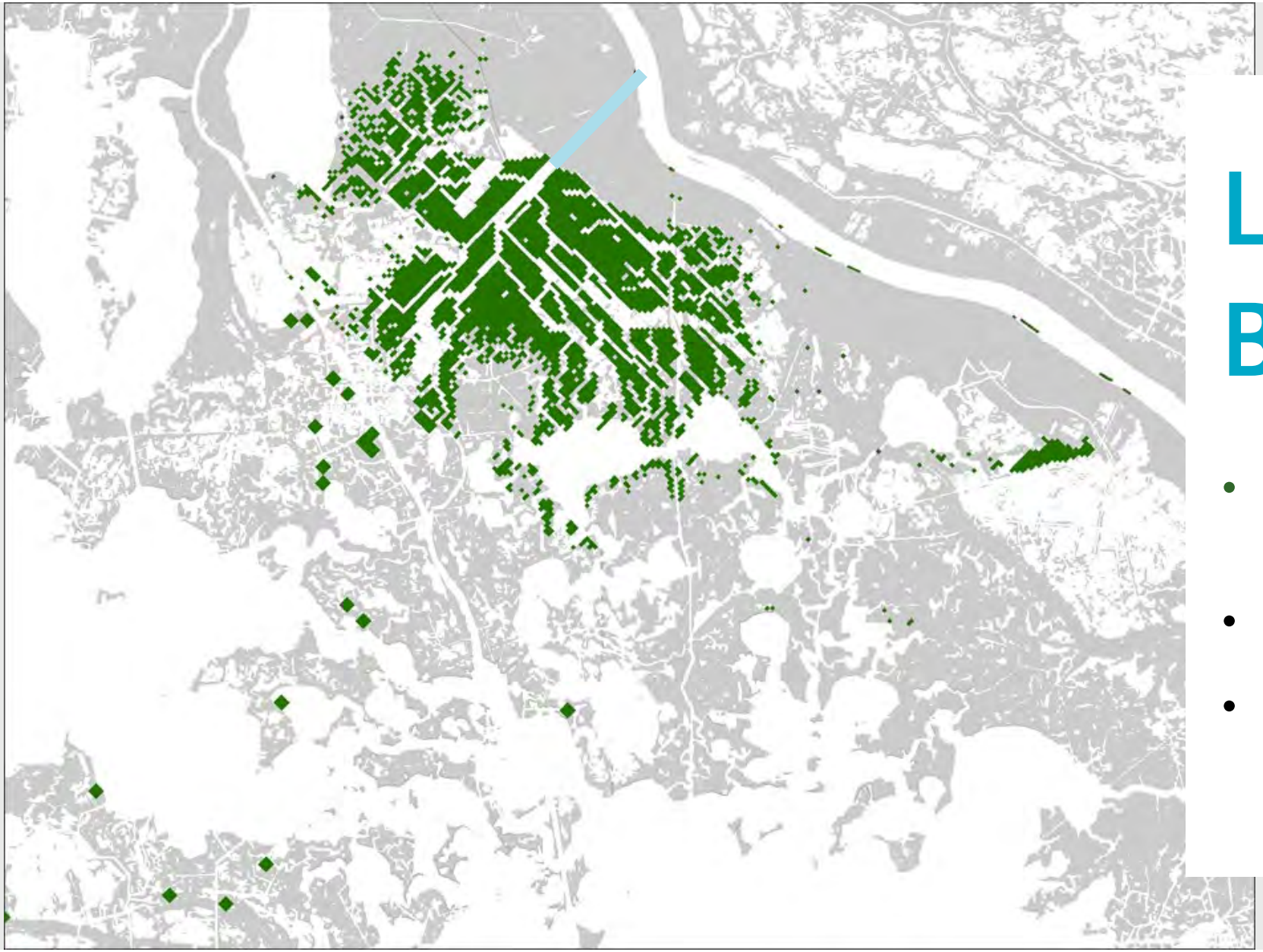
Land Building

- Land Gained and Sustained
- Year 10
- 1.5 SLR



Land Building

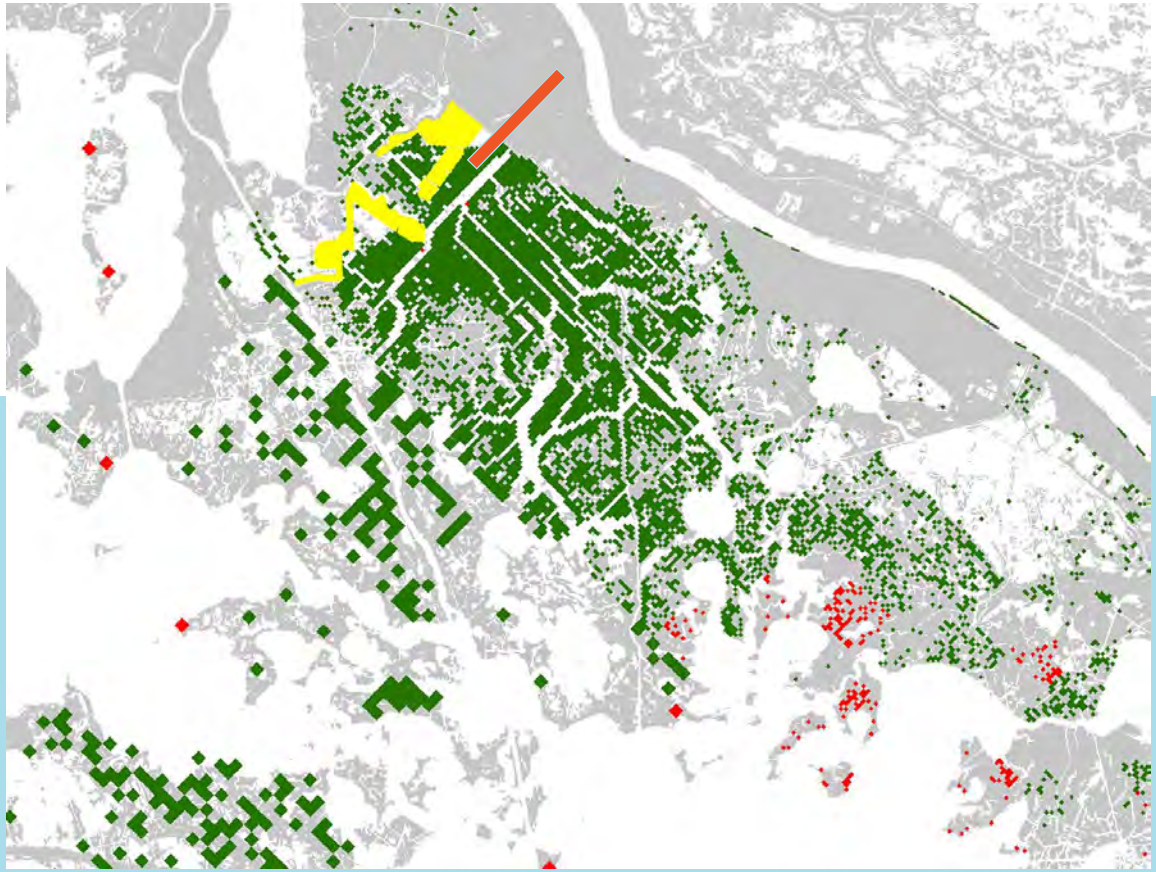
- Land Gained and Sustained
- Year 20
- 1.5 SLR



Land Building

- Land Gained and Sustained
- Year 40
- 1.5 SLR

Marsh Creation Comparison

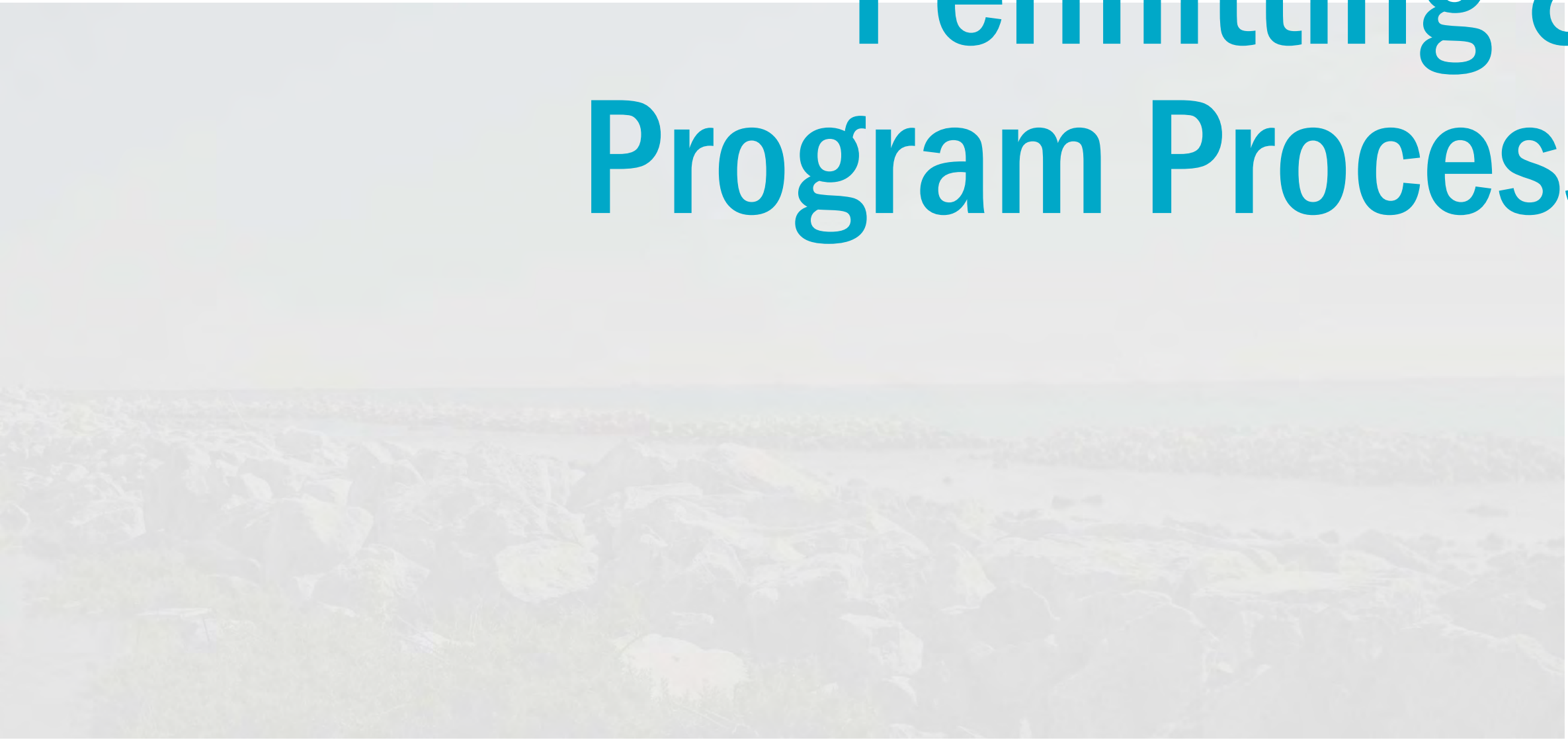


PROPOSED MID-BARATARIA PROJECT SITE

LAND GAINED AND SUSTAINED

MARSH CREATION PROJECT

Permitting & Program Process



PROJECT ENGINEERING & DESIGN

FEDERAL PERMITTING PROCESS

CPRA Submits Joint Permit Application
- Coastal Use Permit (Section 10/404)
- Request to Alter a Federal Project (Section 408)

→

Public Scoping Meeting

→

USACE Develops Draft Environmental Impact Statement (DEIS)

→

Public Comment Period

→

EIS revisions based on Public Comment

→

USACE develops Final Environmental Impact Statement (FEIS)

→

Final Public Review

→

USACE Record of Decision

Permitting and Construction Approvals

Start Permitting

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

Start EIS

National Environmental Policy Act

- Solicitation of Views
- 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)

408 Approval (USACE)

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

EIS Progress Impact Analyses

- Noise
- Oil and gas resources
- Prime Farmland
- Public Safety (Flood Risk Reduction)
- Recreation (including fishing)
- Soils/Sediment (River and Basin)
- Socioeconomic (population, tax revenue, housing, etc.)
- Storm Surge/Flooding
- Threatened and Endangered Species (T&E)
- Water Quality (salinity/nutrients)
- Wetlands and Waters of the U.S.
- Aesthetic and Visual Resources
- Air Quality
- Aquatic Resources
- Terrestrial Resources
- Commercial Fisheries (industry impacts)
- Cultural Resources
- Environmental Justice (EJ)
- Essential Fish Habitat (EFH)
- Groundwater
- Land Use
- Marine Mammals
- Navigation (deep draft and tows)

Mid-Barataria Sediment Diversion

Project Location

LOCATION

Ironton, LA

E&D FUNDING

NFWF

TASKS

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

PROJECT DETAILS

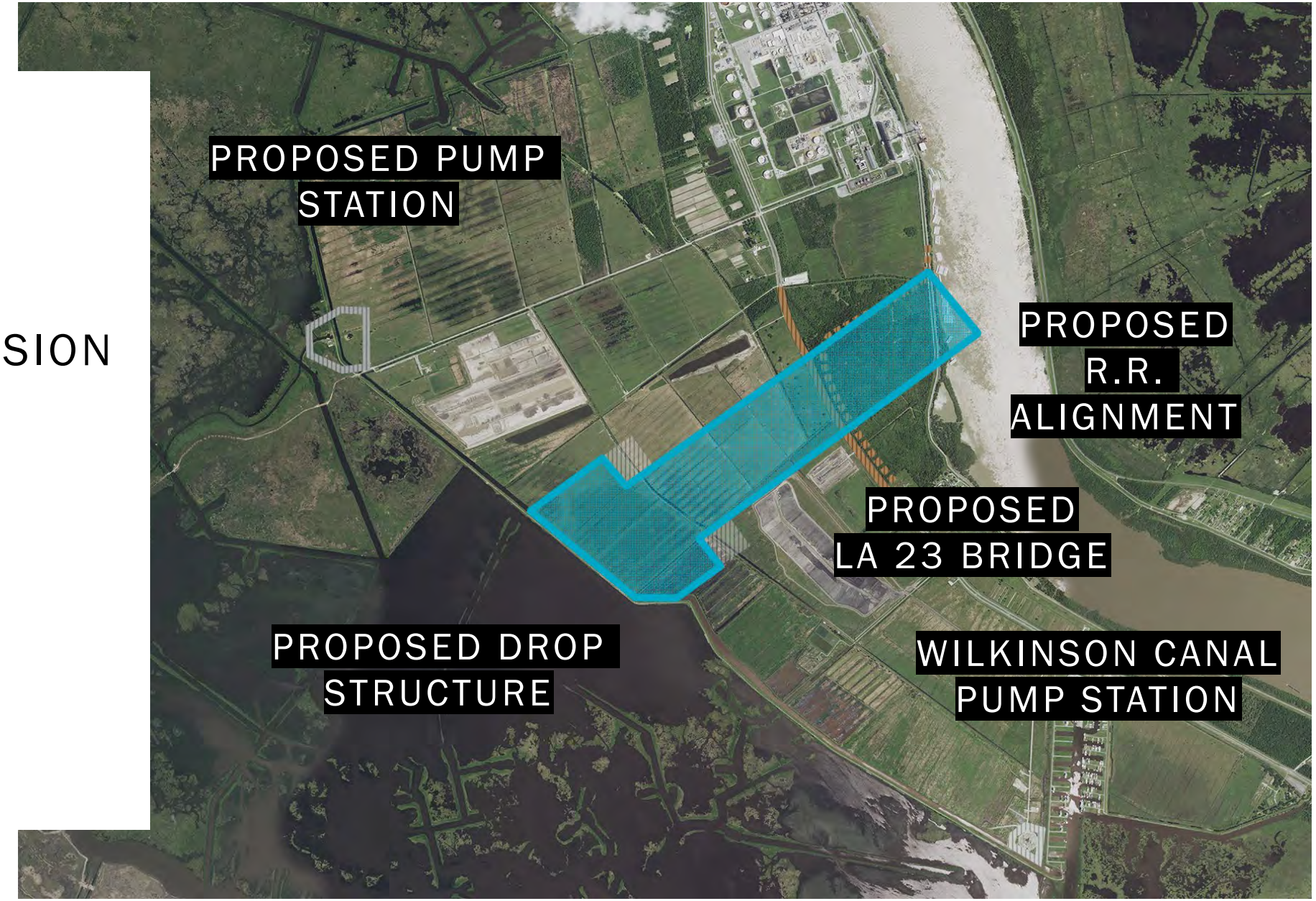
- Inlet: Elev. -40 feet
- Width: 1,600 foot Corridor
- Length: Approx. 2 miles
- Capacity: est. up to 75,000 cfs

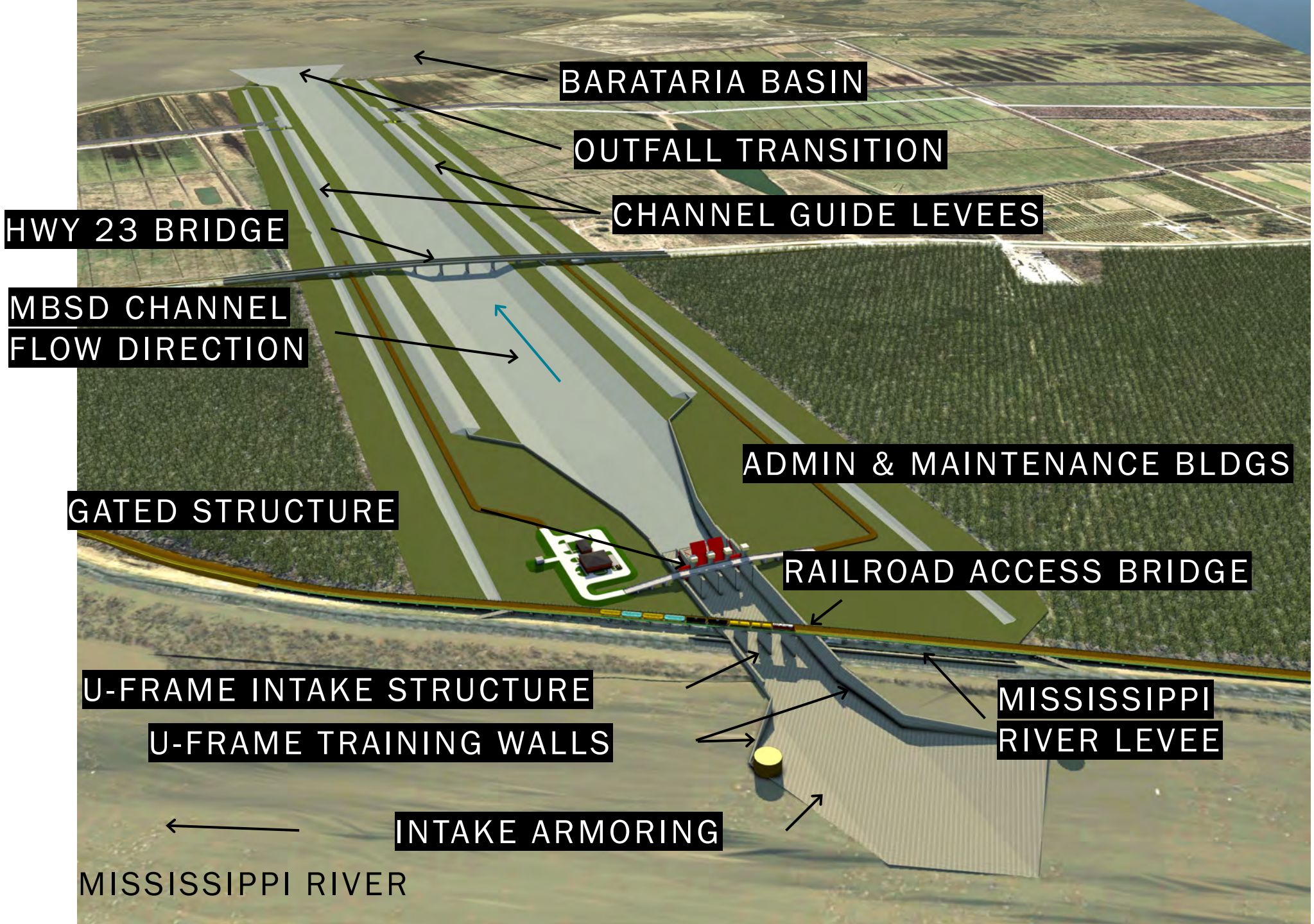
PROJECT FEATURES

- Inlet, Conveyance Structure, Outlet
- Interior Drainage Modifications
- Highway Modifications
- Railroad Modifications

MID-BARATARIA
SEDIMENT DIVERSION

Project Location




BARATARIA BASIN
OUTFALL TRANSITION
CHANNEL GUIDE LEVEES
HWY 23 BRIDGE
MBSD CHANNEL
FLOW DIRECTION
ADMIN & MAINTENANCE BLDGS
GATED STRUCTURE
RAILROAD ACCESS BRIDGE
U-FRAME INTAKE STRUCTURE
U-FRAME TRAINING WALLS
MISSISSIPPI
RIVER LEVEE
INTAKE ARMORING
MISSISSIPPI RIVER

MID-BARATARIA SEDIMENT DIVERSION

Ongoing Efforts

DATA COLLECTION

Geotechnical Borings, Pump Tests, and Field Consolidation Tests

PHYSICAL MODELING EFFORTS

ENGINEERING & DESIGN: 30% DESIGN

SITE LAYOUT COORDINATION

OUTREACH & ENGAGEMENT

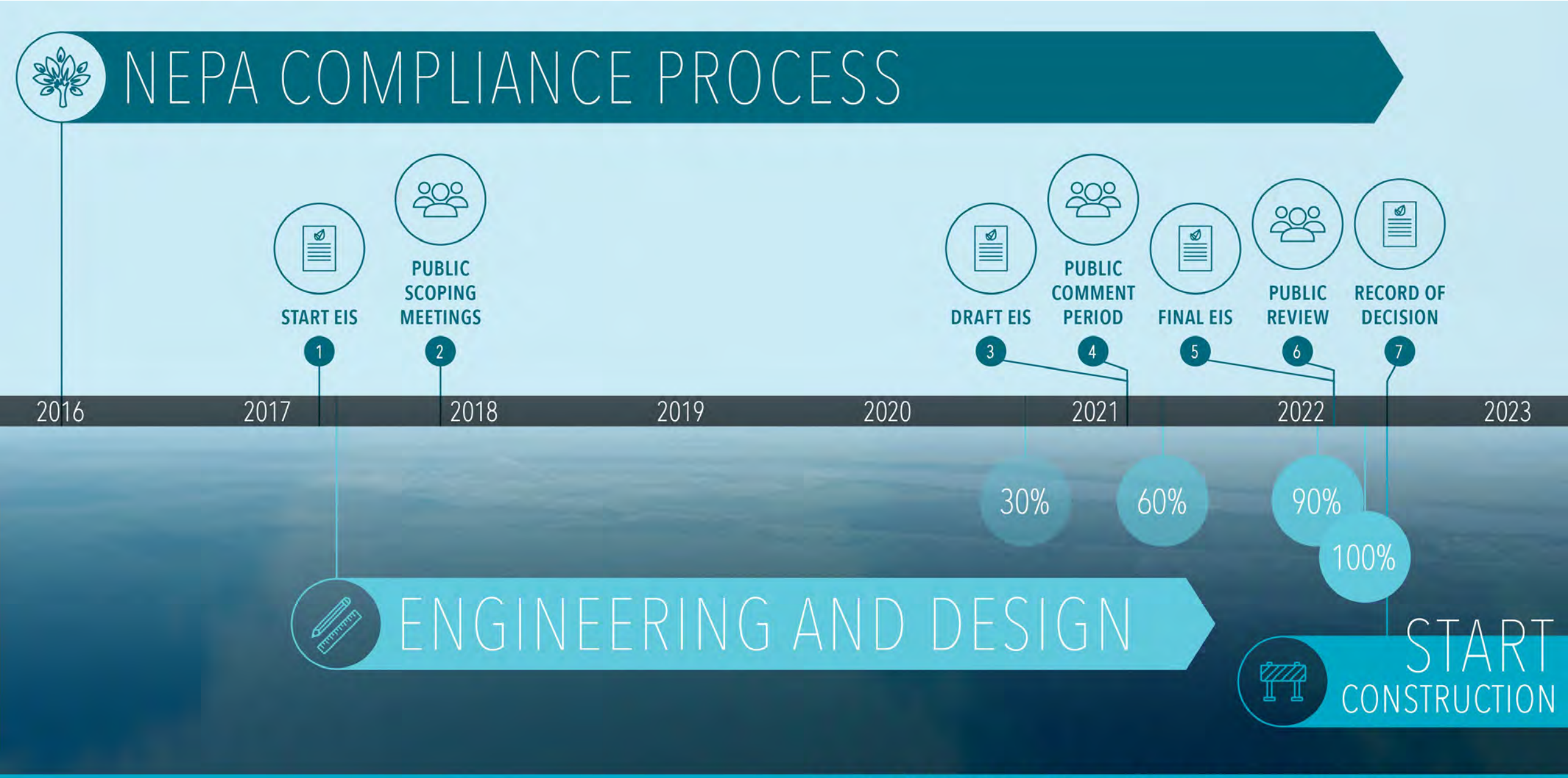
Next Steps

EIS

- USACE & other federal agencies will analyze impacts using best available science and data
- Continued coordination with communities and stakeholders
- Refine operational controls, adaptive management plan, and mitigation strategies
- Coordinate with USACE and federal family on the project's impact analysis → avoid, minimize, mitigate any significant impacts

Engineering and Design

Progressing from 30% to 60% design effort



MID-BARATARIA SUMMARY SCHEDULE

Mid-Breton Sediment Diversion

Project Location

LOCATION

River Mile 68
WILL'S POINT / BERTRANDVILLE, LA

E&D FUNDING

NFWF

TASKS

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

PROJECT DETAILS

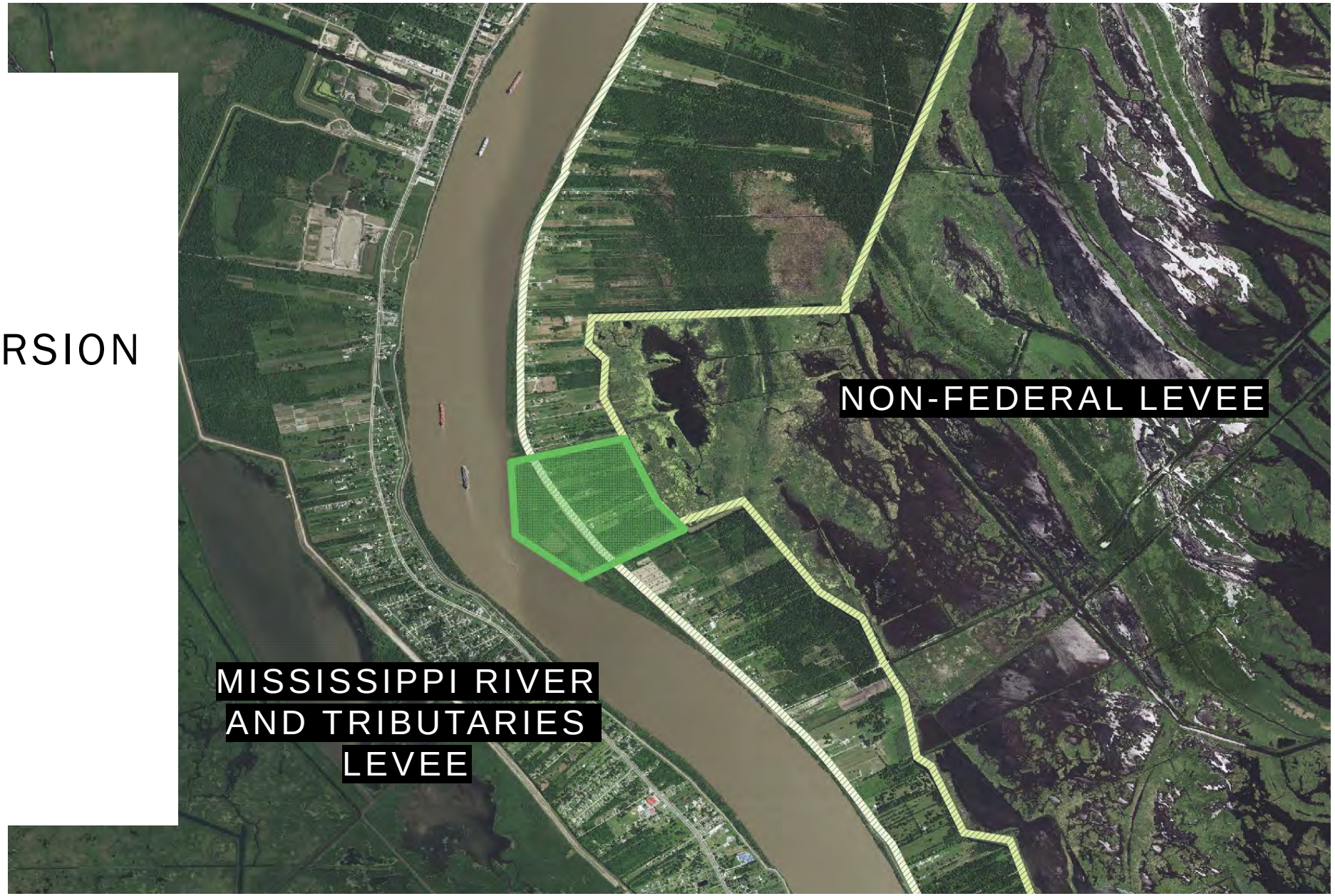
- Inlet: Elev. -20 to -35 feet
- Width: 1,400-foot Corridor
- Length: Approx. 0.5 miles
- Capacity: est. up to 75,000 cfs

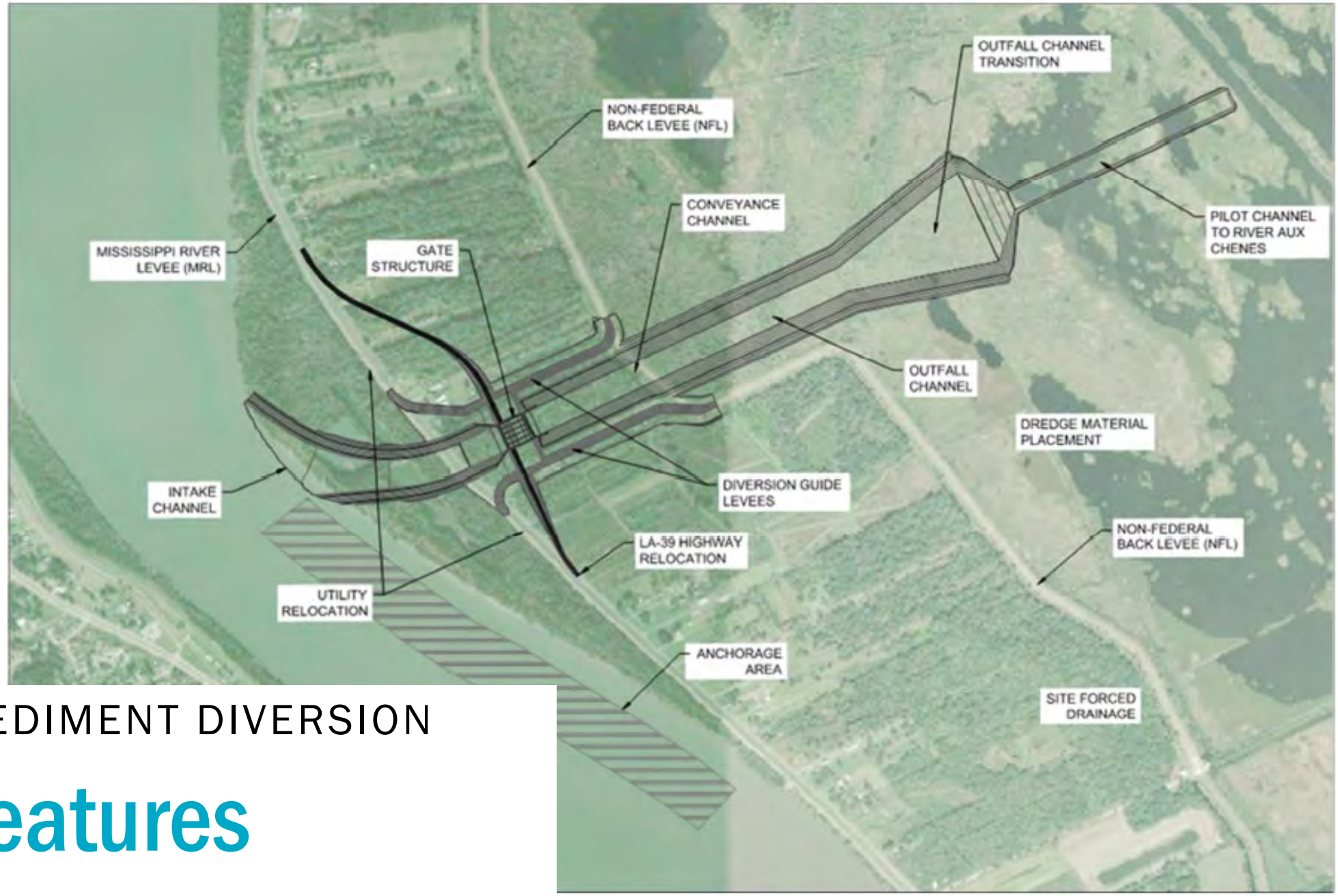
PROJECT FEATURES

- Inlet, Conveyance Structure, Outlet
- Interior Drainage Modifications
- Highway Relocation

MID-BRETON
SEDIMENT DIVERSION

Project Location





MID-BRETON SEDIMENT DIVERSION

Project Features

MID-BRETON SEDIMENT DIVERSION

Ongoing Efforts

- RIVER SEDIMENT/BASIN SAMPLING
- ENGINEERING & DESIGN – 15 % EFFORT
- PHYSICAL MODEL TESTING
- OUTREACH & ENGAGEMENT

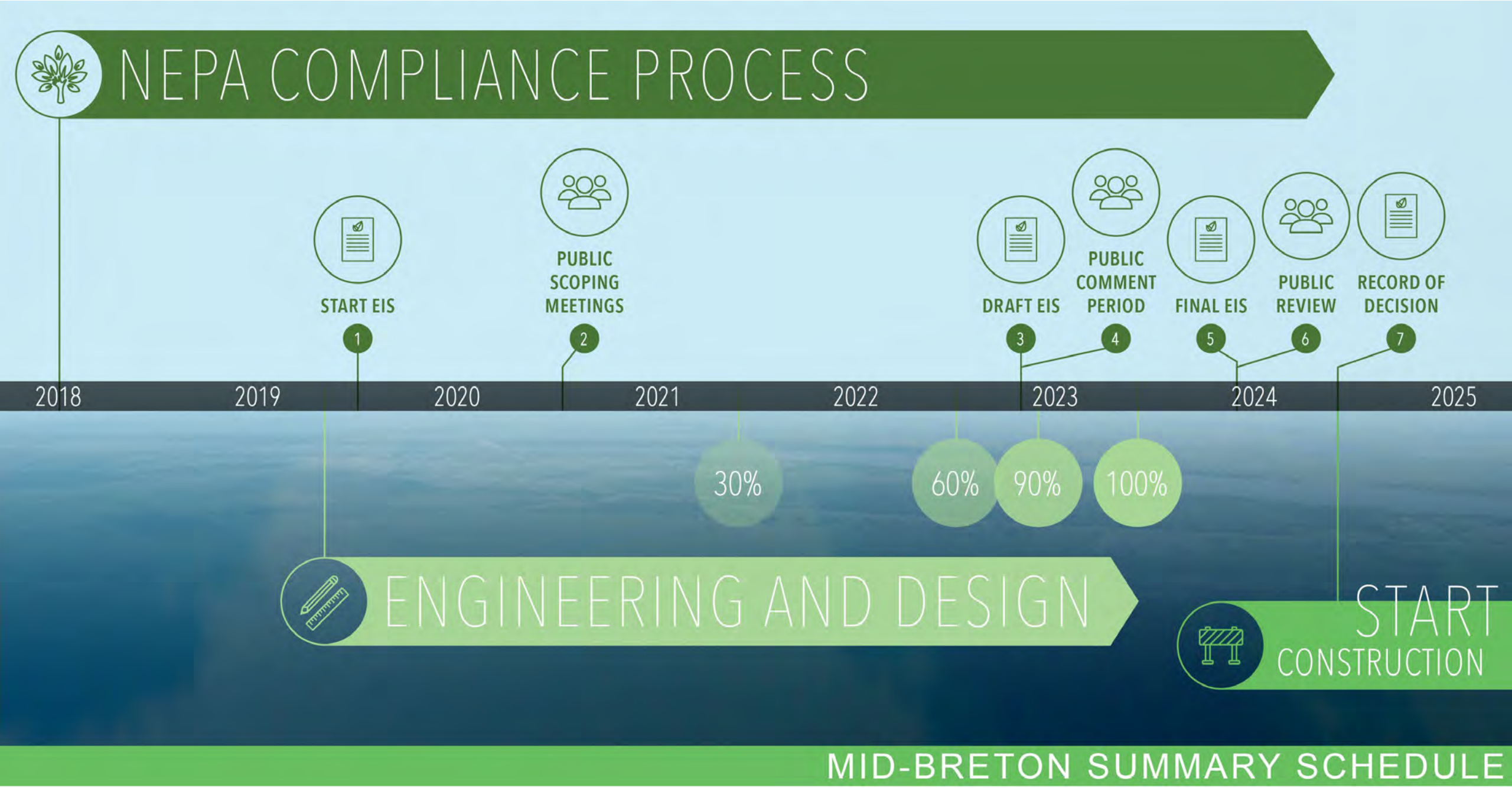
Next Steps

EIS

- Scoping meetings scheduled for early 2020
- Continued coordination with communities and stakeholders
- Refine operational controls, adaptive management plan, and mitigation strategies

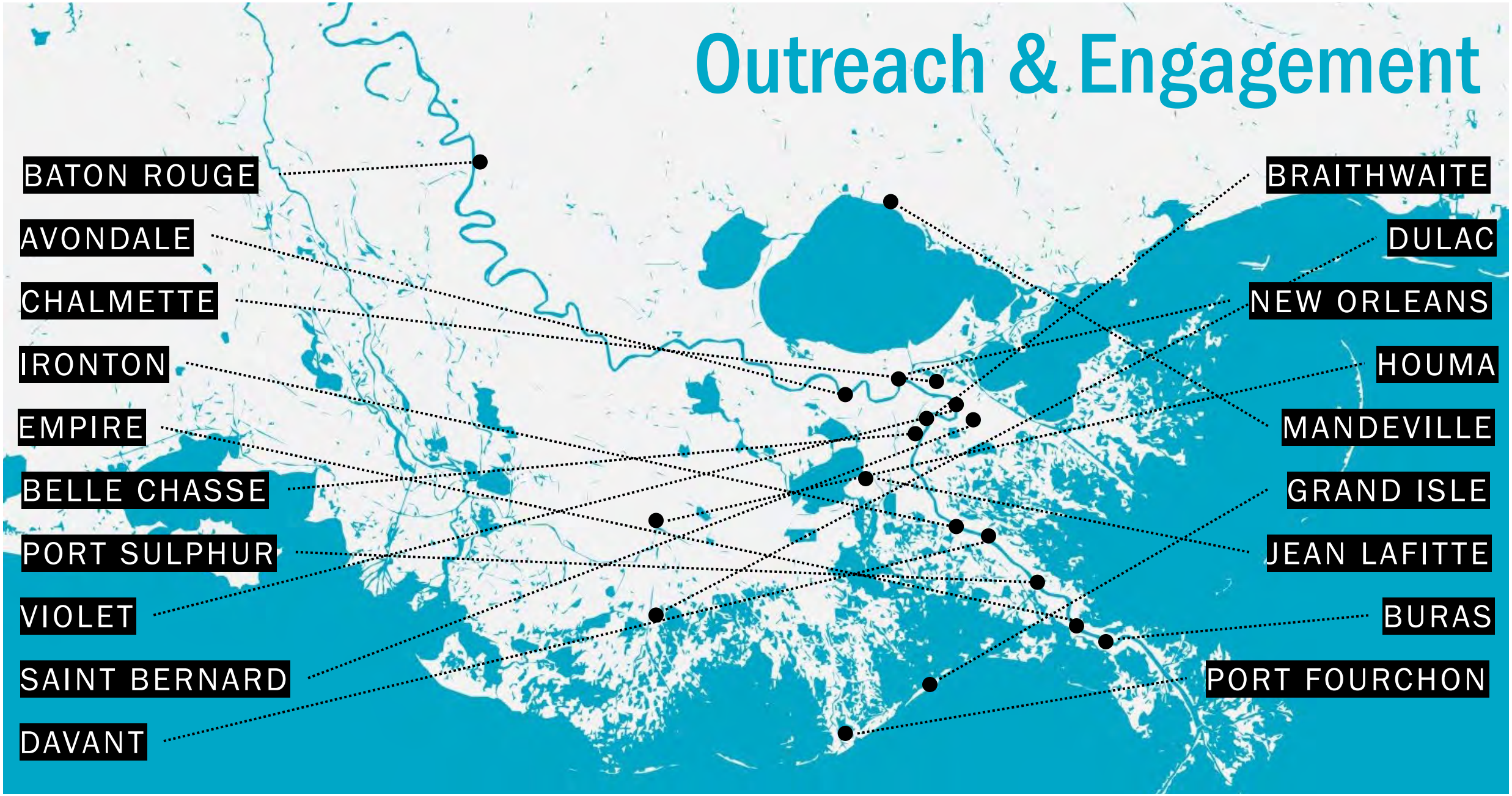
Engineering and Design

Progressing from 15% to 30% design effort


NEPA COMPLIANCE PROCESS
START EIS
1
PUBLIC SCOPING MEETINGS
2
DRAFT EIS
3
PUBLIC COMMENT PERIOD
4
FINAL EIS
5
PUBLIC REVIEW
6
RECORD OF DECISION
7
2018
2019
2020
2021
2022
2023
2024
2025
30%
60%
90%
100%
ENGINEERING AND DESIGN
START CONSTRUCTION
MID-BRETON SUMMARY SCHEDULE

Outreach & Engagement

Outreach & Engagement



Outreach & Engagement

195 MEETINGS

- ELECTED & PARISH OFFICIALS
- SEAFOOD INDUSTRY
- RECREATION INDUSTRY
- COMMUNITIES NEAR PROJECT SITES
- NGO, NONPROFIT, AND STAKEHOLDER GROUPS
- GENERAL PUBLIC

8,000

STAKEHOLDERS REACHED

THANK YOU

COASTAL PROTECTION AND RESTORATION AUTHORITY

CPRA