COASTAL PROTECTION AND RESTORATION AUTHORITY

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

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

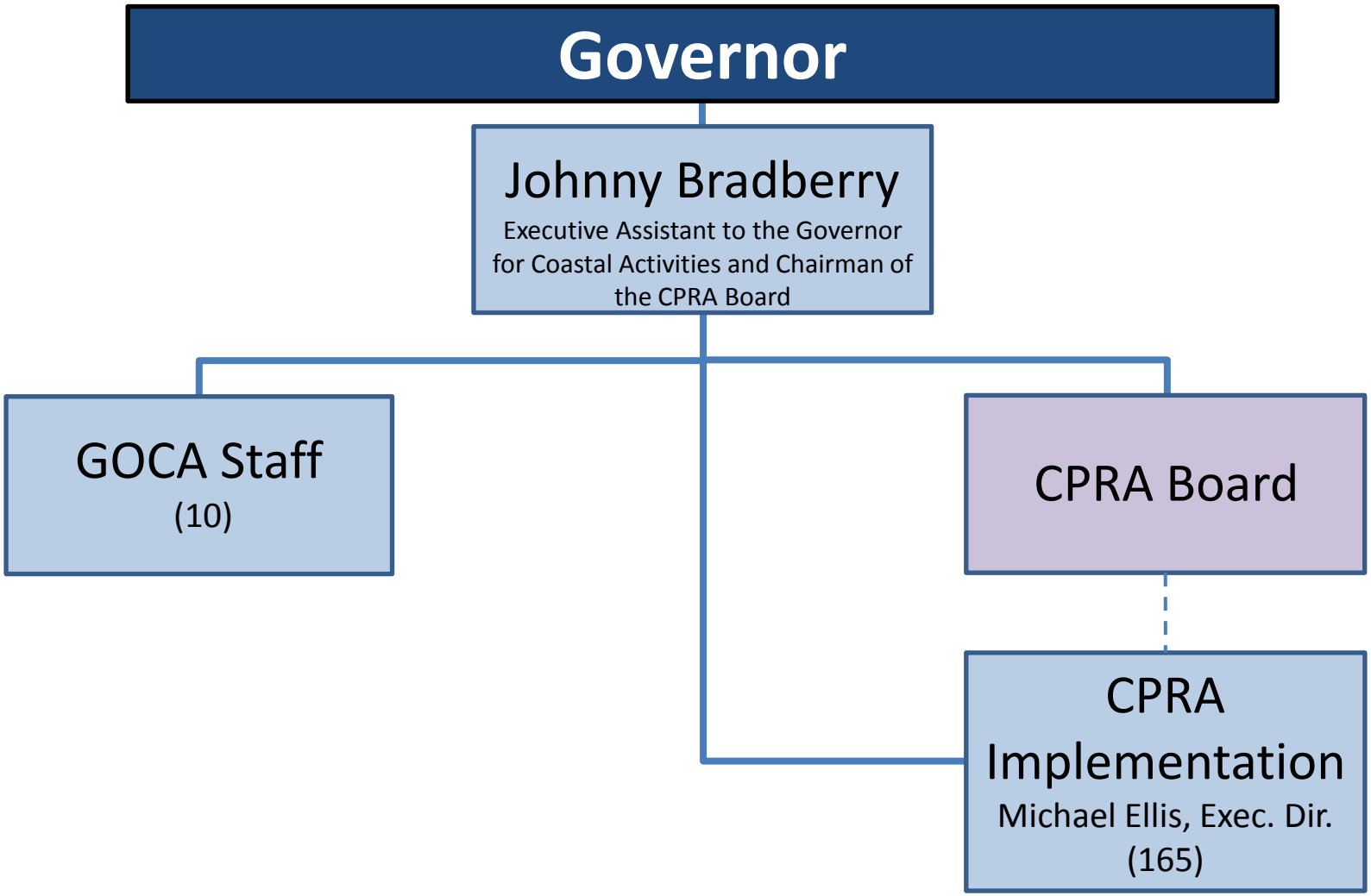
committed to **our coast**

Our Organization

committed to **our coast**

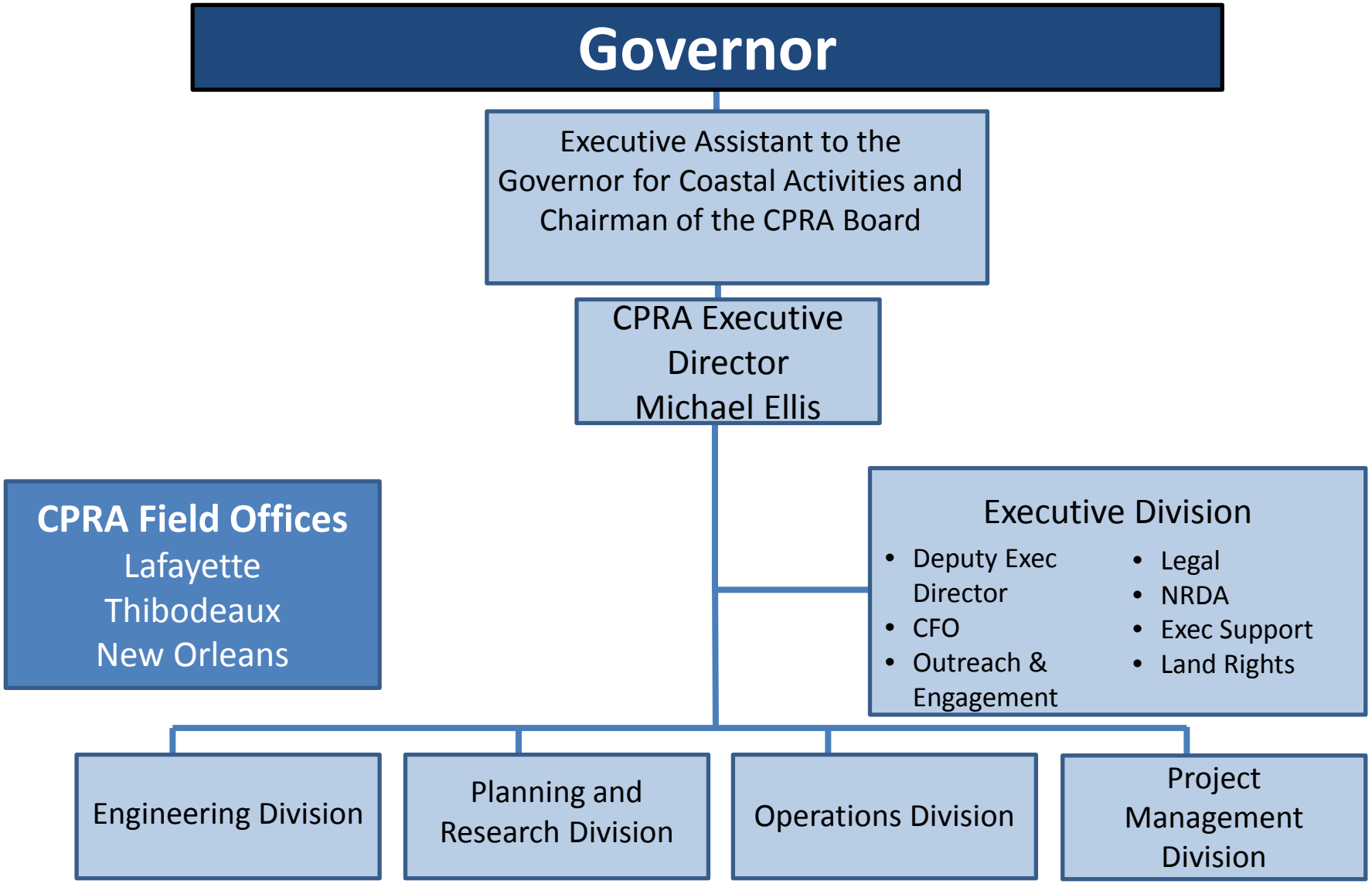
Our Organization

Organization Alignment



Our Organization

CPRA Implementation



Our Organization

CPRA Implementation Agency

165 **Total employees**

46% hold advanced degrees

67 Scientists

43 Engineers (79% P.E. designation)

54 Leadership, Admin, Finance, HR, O & E, Legal

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Our Organization

Coastal Protection and Restoration Authority Board (CPRA Board)

- 20 Member Board
  - Executive Assistant to the Governor for Coastal Activities—Chairman
  - 9 State Agencies: DOA, DEQ, LED, LDWF, DNR, GOHSEP, DOTD, Agriculture, Insurance
  - Chairman of the Governor's Advisory Commission
  - 7 Regional Appointees of the Governor
  - 2 Legislative, Ex-Officio Members

- Monthly Meetings
- Overall Mission to Approve the Master Plan and Annual Plan and Direct Implementation

Our Plan

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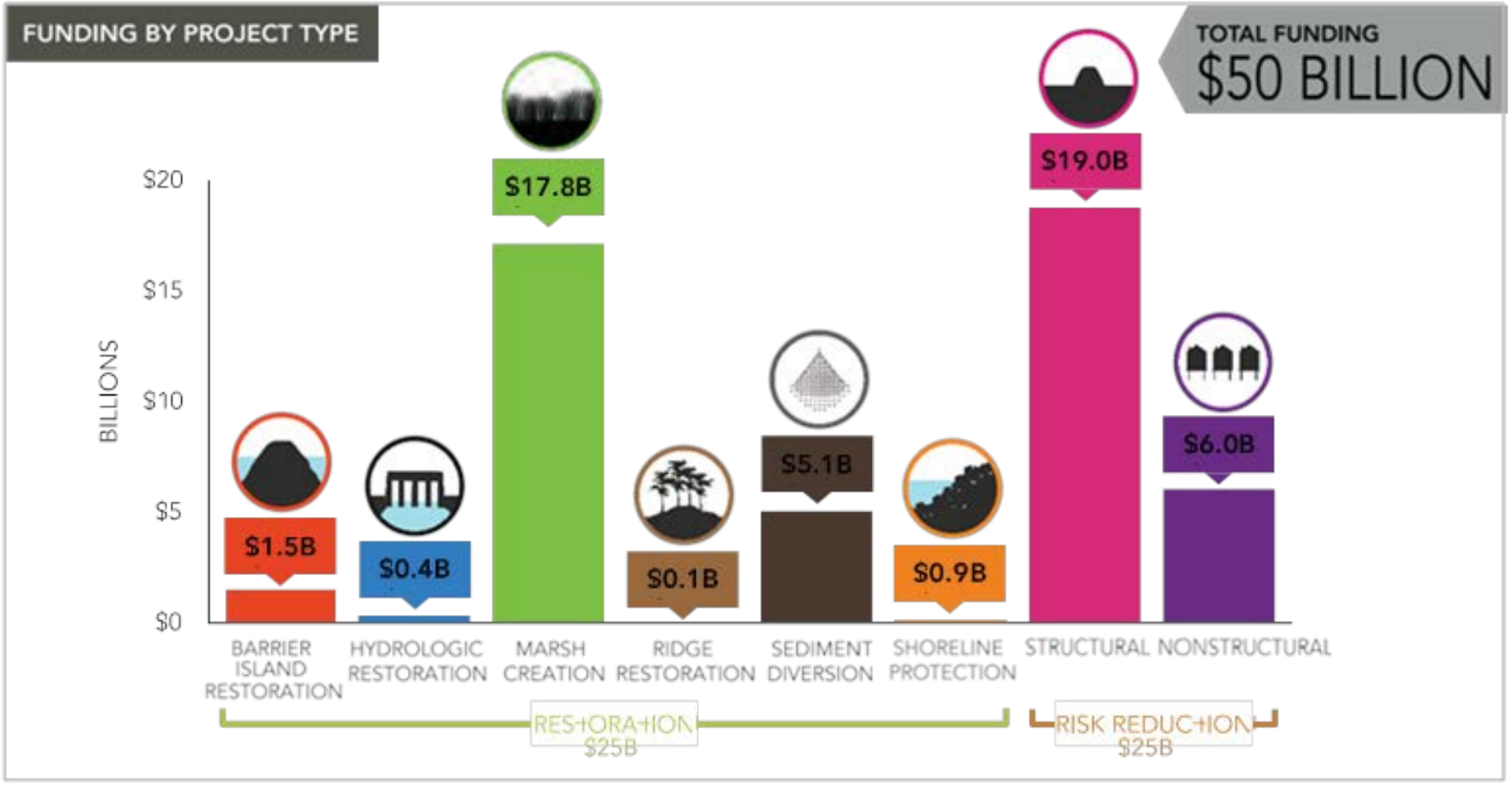
Our Plan

Louisiana's Comprehensive Master Plan for a Sustainable Coast

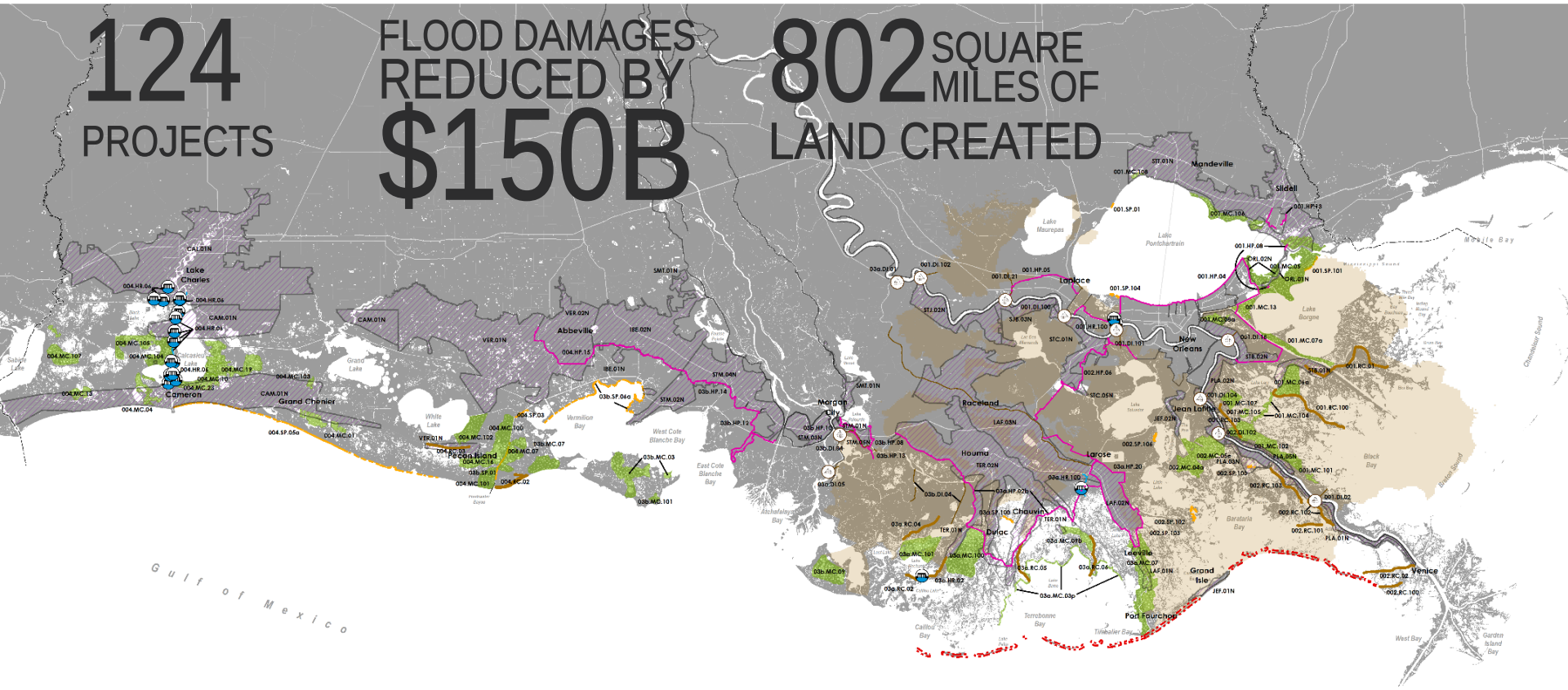
Our Plan

Funding by Project Type

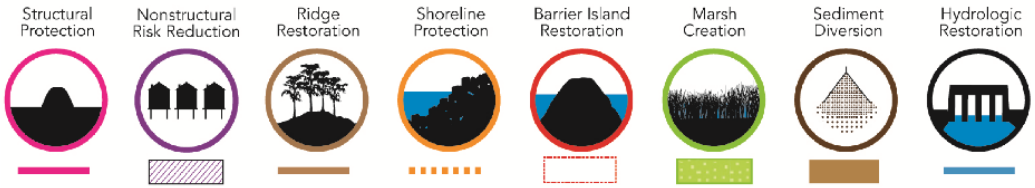


Our Plan

Project Types



PROJECT TYPES



Small scale hydrologic restoration and oyster reef/living shoreline projects are included programmatically in the 2017 Coastal Master Plan. Consistency of individual projects will be determined on a case-by-case basis.

Our Budget

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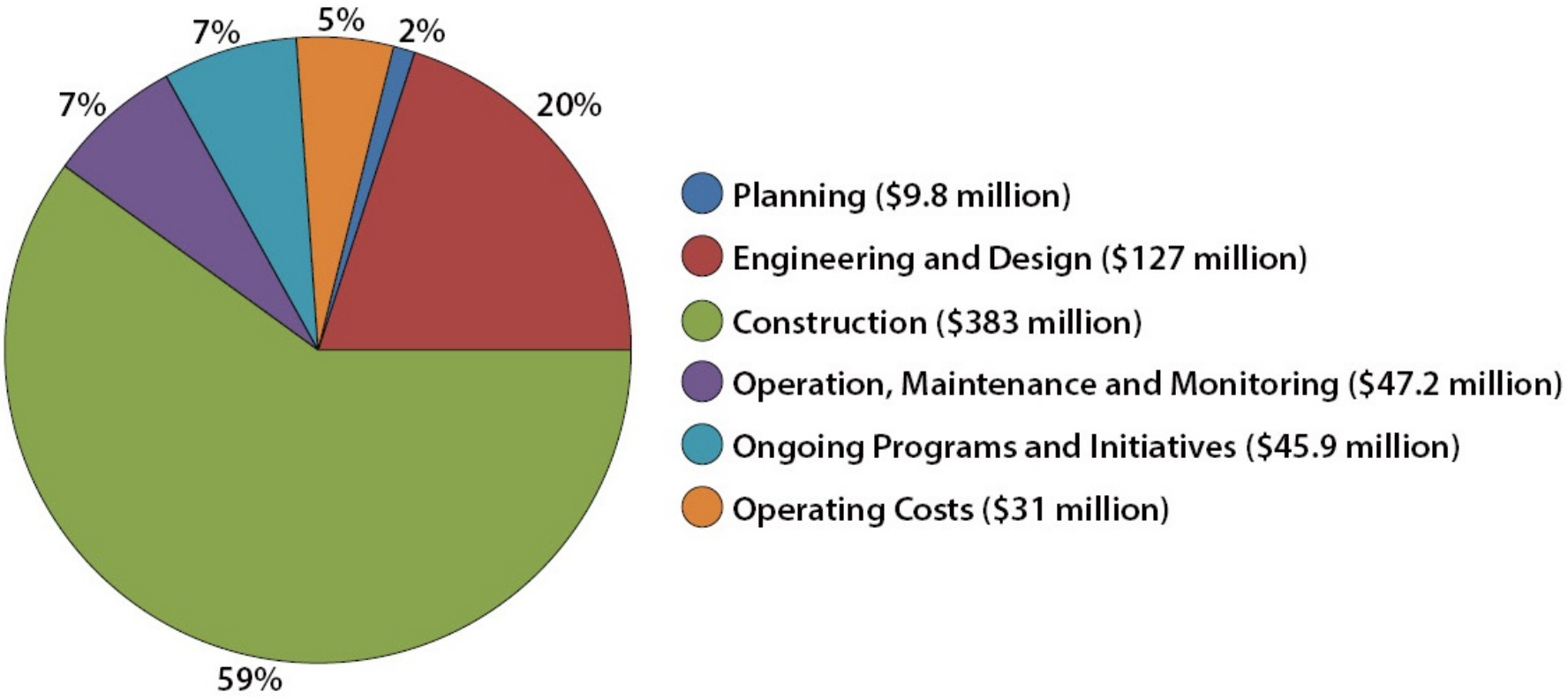
Our Budget

Projected FY18 Expenditures – Project Phase

Figure ES-1: Projected FY 2018 Expenditures by Project Phase



Notes

- Construction includes Beneficial Use ($1.7 million)
- OM&M includes BIMP ($2.6 million), Repair/Rehabilitation of Projects ($759,739), Marine Debris Removal ($1.6 million)

TOTAL Expenditures
$644 million

Our Budget

FY 2018 Project Associated Costs

Construction → **30 projects, $383 million**

15 protection:15 restoration projects

Engineering & Design → **42 projects, $127 million**

3 protection:39 restoration

Planning → **3 projects, $10 million**

OM&M → **143 projects, $47 million**

Our Projects

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Our Projects

Caillou Lake Headlands

Our Projects

Unprecedented Scale

Program Year	E & D	Construction
2015	$16 Million	$190 Million
2016	$14 Million	$183 Million
2017	$107 Million	$310 Million
2018	$103 Million	$430 Million
2019	$93 Million	$750 Million
2020	$62 Million	$920 Million

In 2015-2016, CPRA spent $30M in E & D and $373M in Construction.

In 2017-2020, CPRA will spend $365M in E & D and $2.4B in Construction.

Our Projects

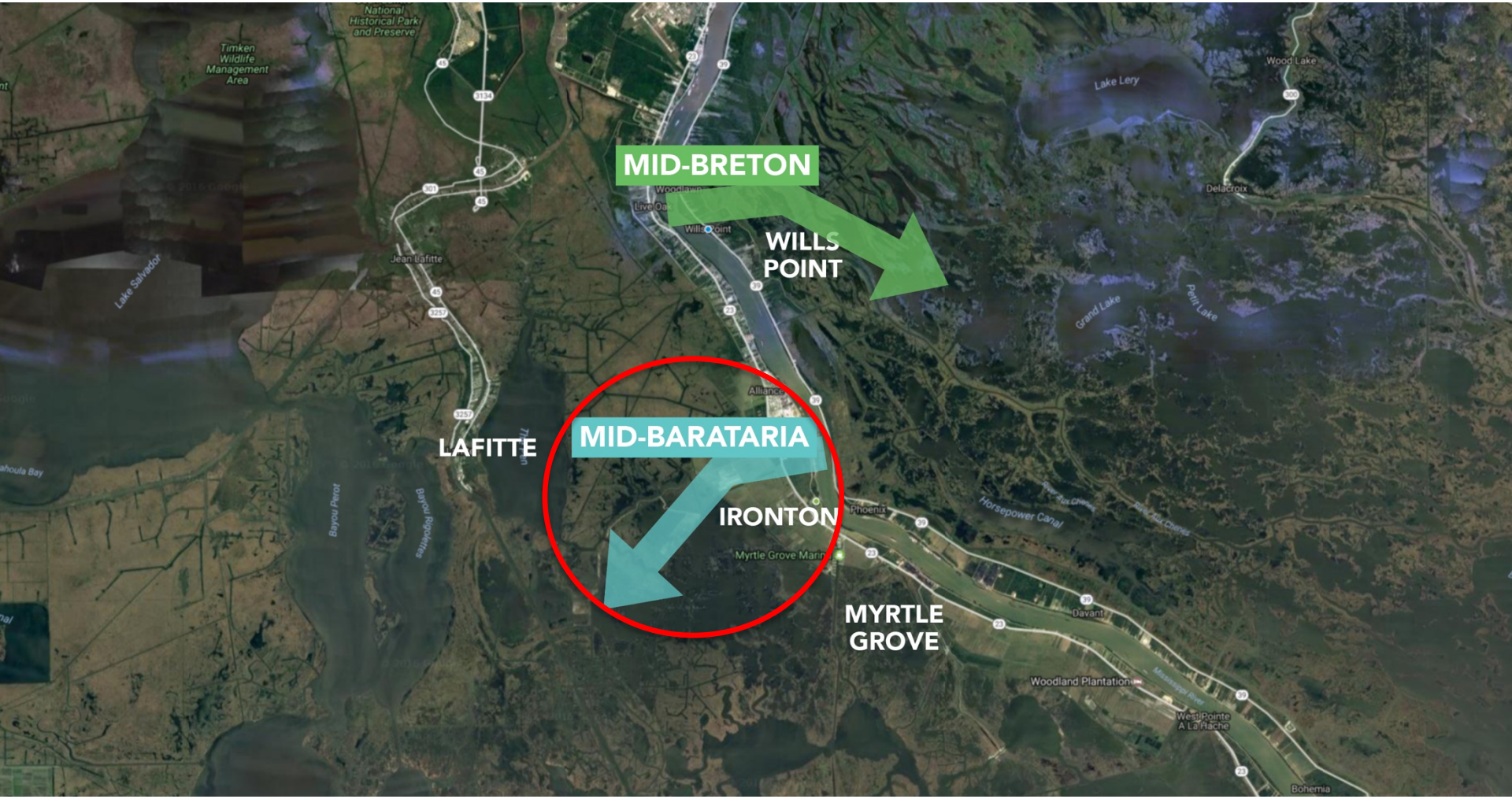
Unprecedented Scope

Life of Project	E & D	Construction	TOTAL
Calcasieu Salinity Control Measures	$36.4 Million	$263 Million	$299 Million
Increase Atchafalaya Flow to Terrebonne	$37 Million	$431 Million	$468 Million
East Timbalier Island Restoration	$5.4 Million	$150 Million	$155 Million
Houma Navigation Lock Complex	$34 Million	$323 Million	$357 Million
Mid-Barataria Sediment Diversion	$127 Million	$1.3 Billion	$1.4 Billion
Mid-Breton Sediment Diversion	$99 Million	$660 Million	$759 Million
River Reintroduction to Maurepas Swamp	$14.2 Million	$161 Million	$175 Million
TOTALS:	$353 Million	$3.3 Billion	$3.6 Billion

PROGRAM AND PROJECT OVERVIEW

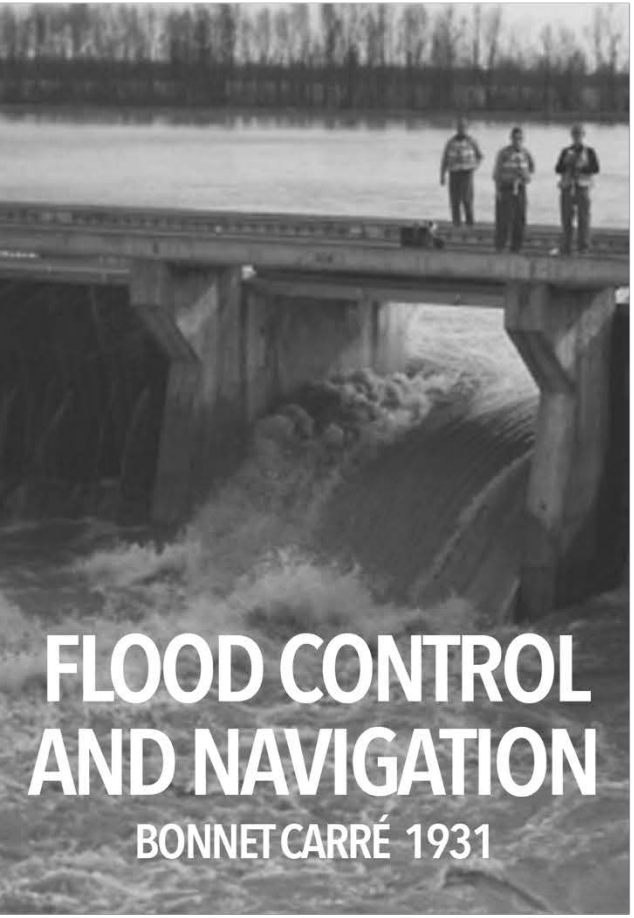
Our Projects

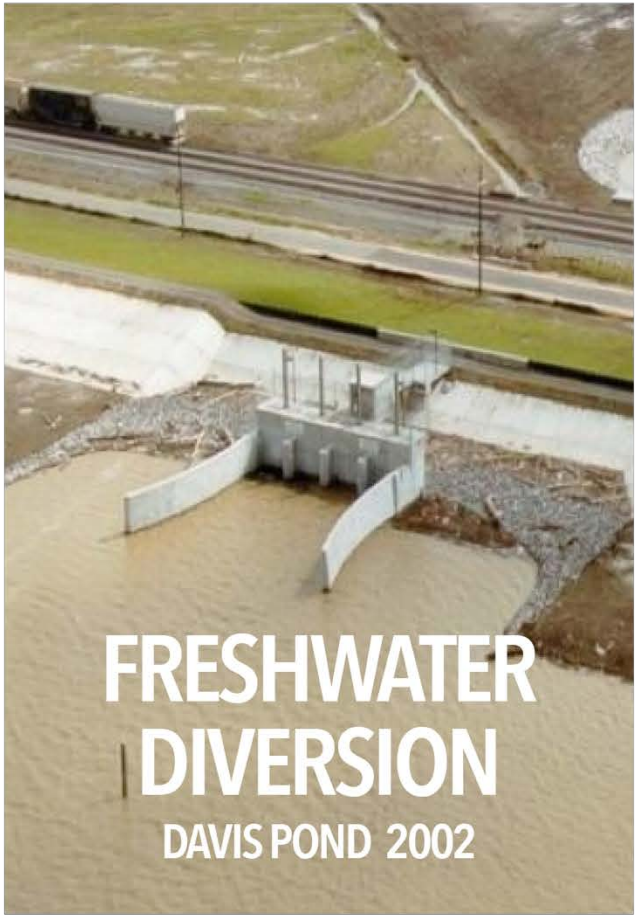
Mid-Barataria Sediment Diversion

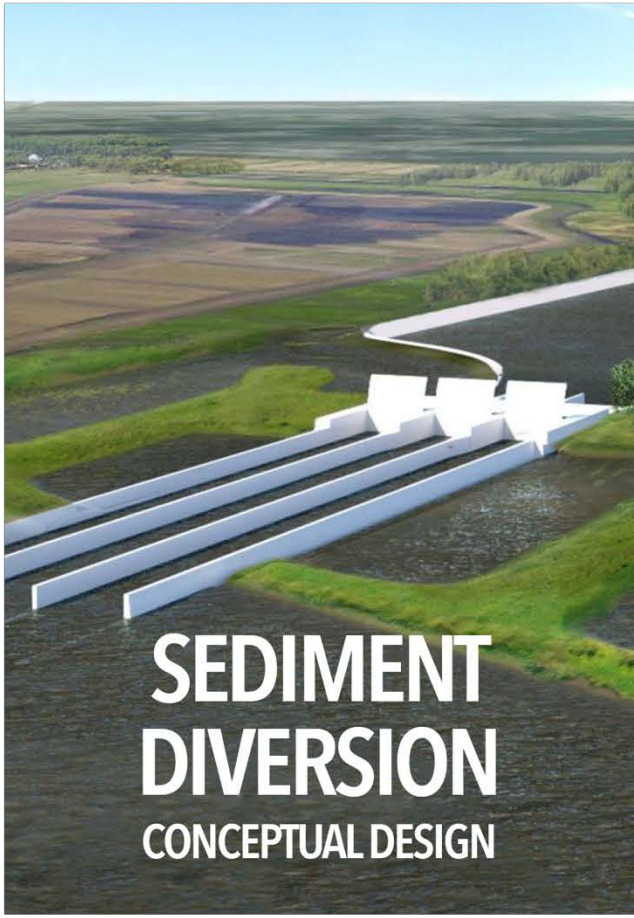


Our Projects

Controlled Diversion Types

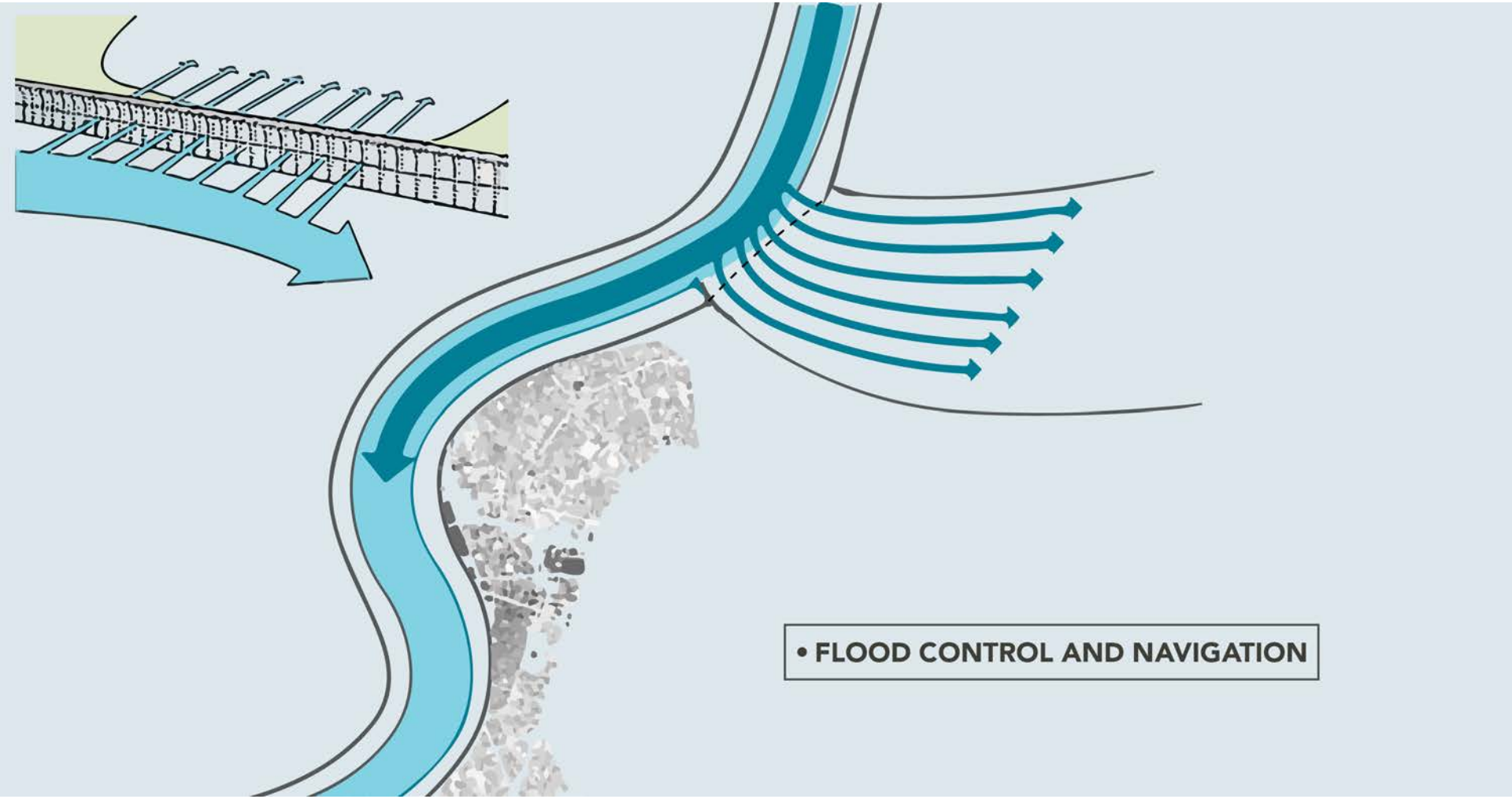






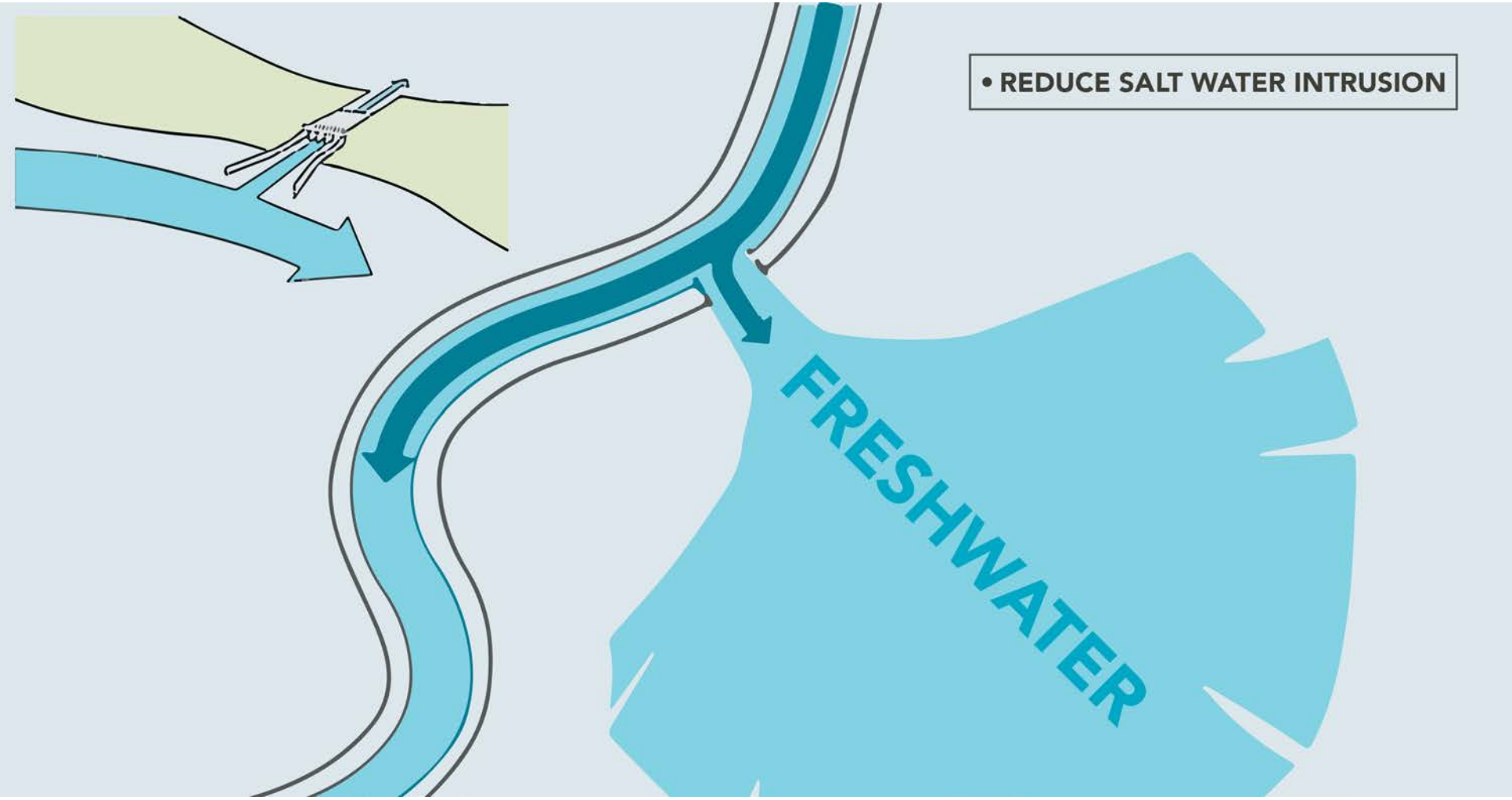
Our Projects

Flood Control Structure



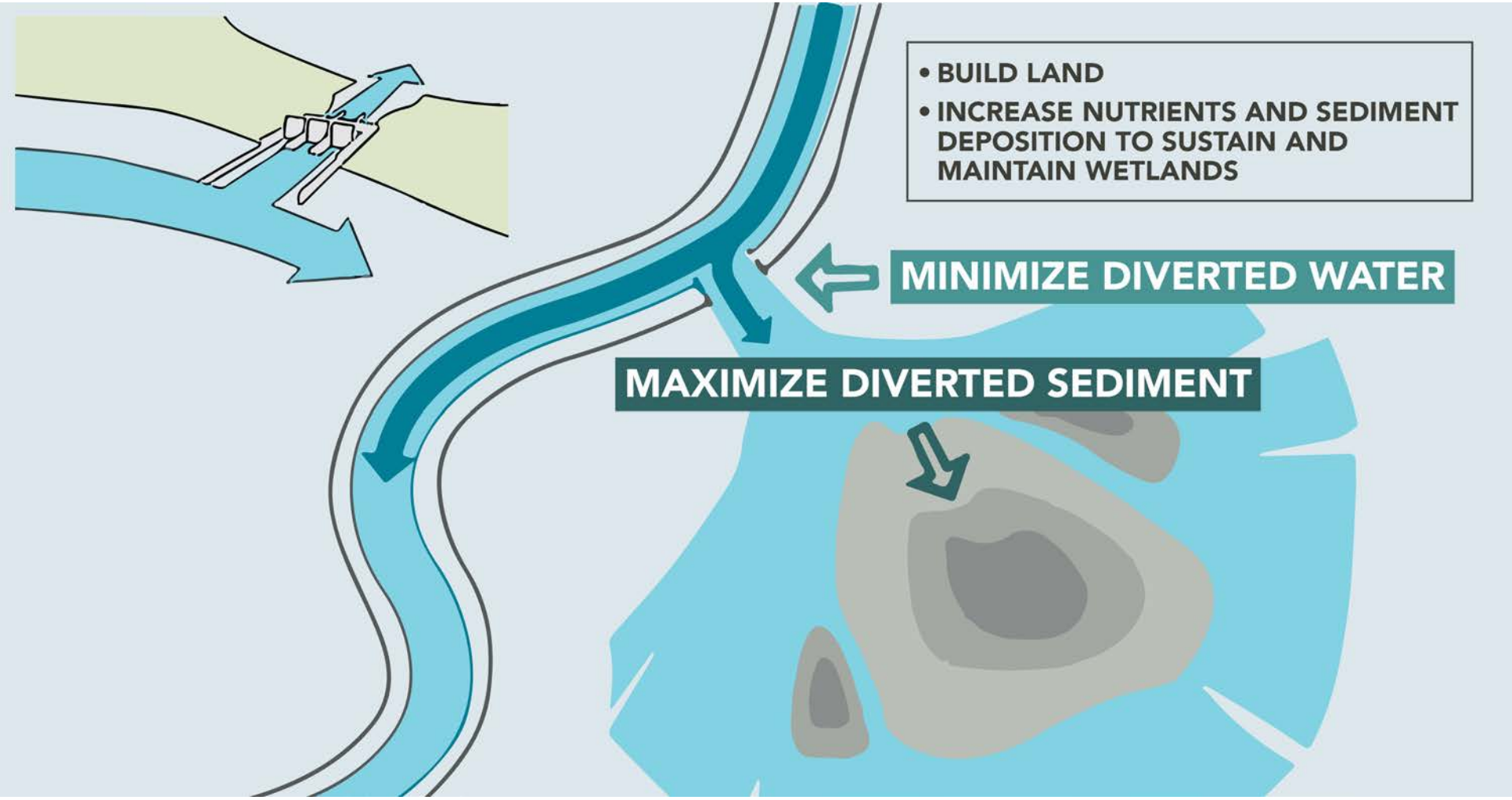
Our Projects

Freshwater Diversion



Our Projects

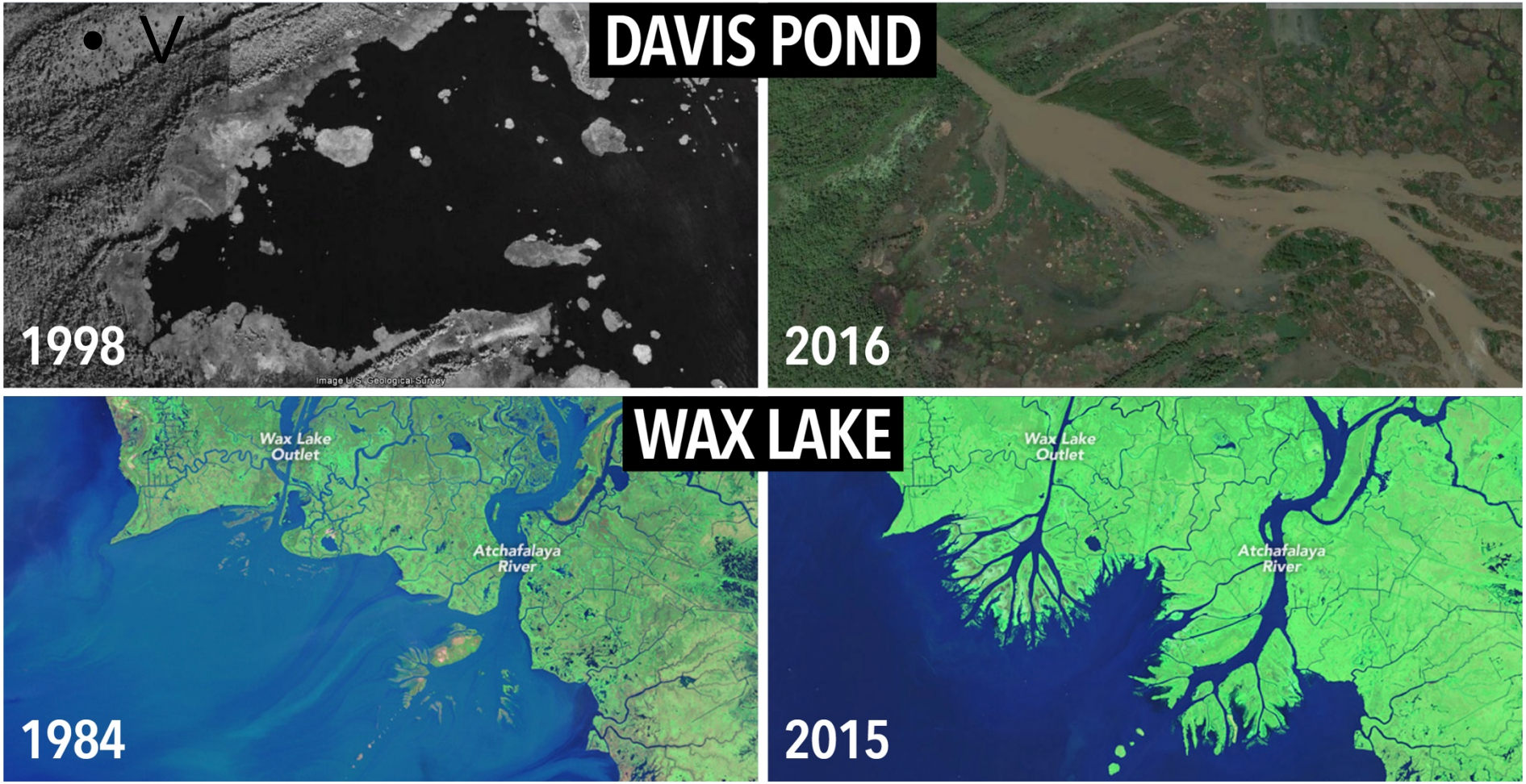
Sediment Diversions



Our Projects

Proven Success: Land-building examples

- V



Our Projects

Proven Success: Land-building examples

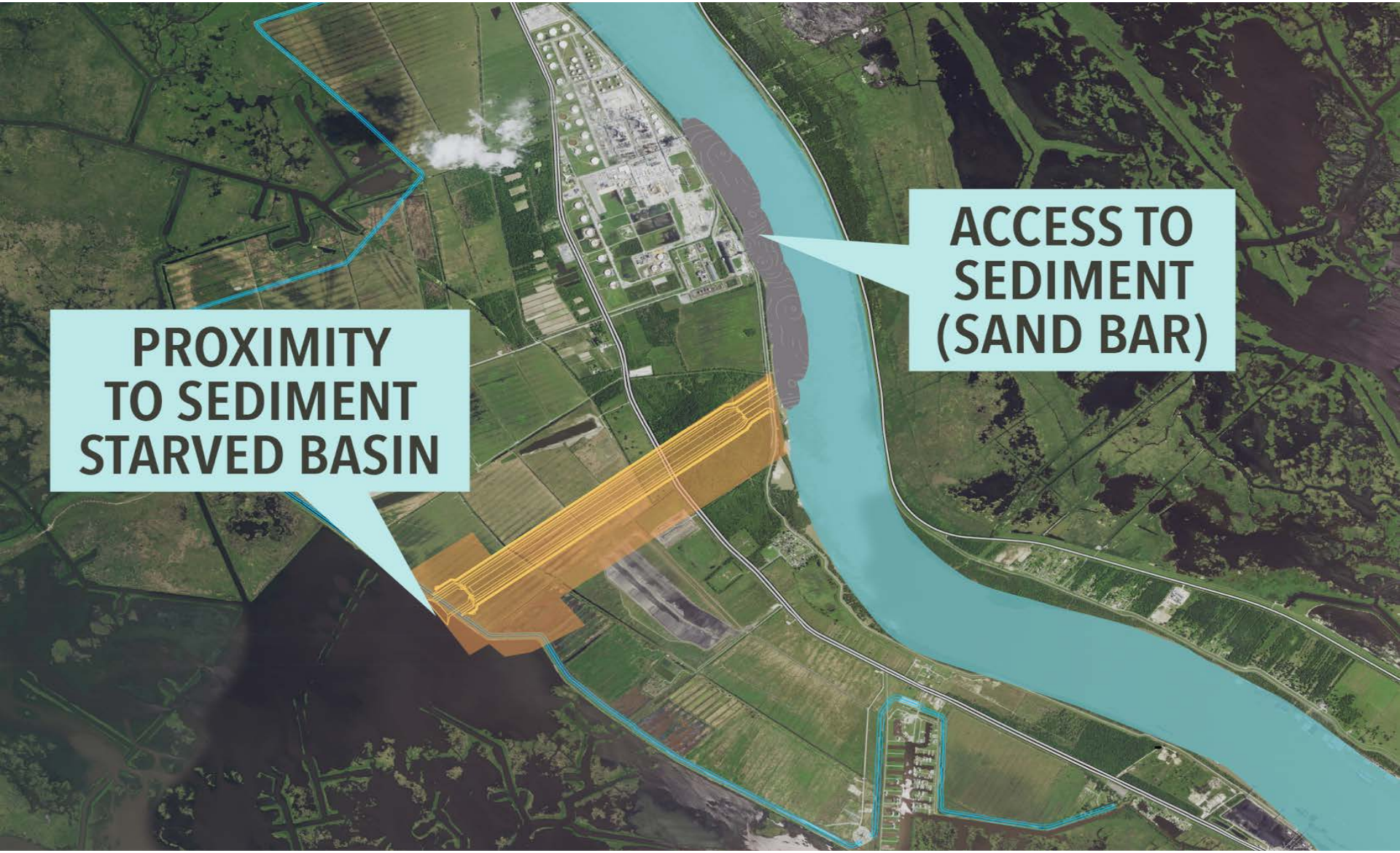
Our Projects

Projected program costs and Funding

	MID-BARATARIA	MID-BRETON
Estimated Cost	**$1.3B**	**$696M**

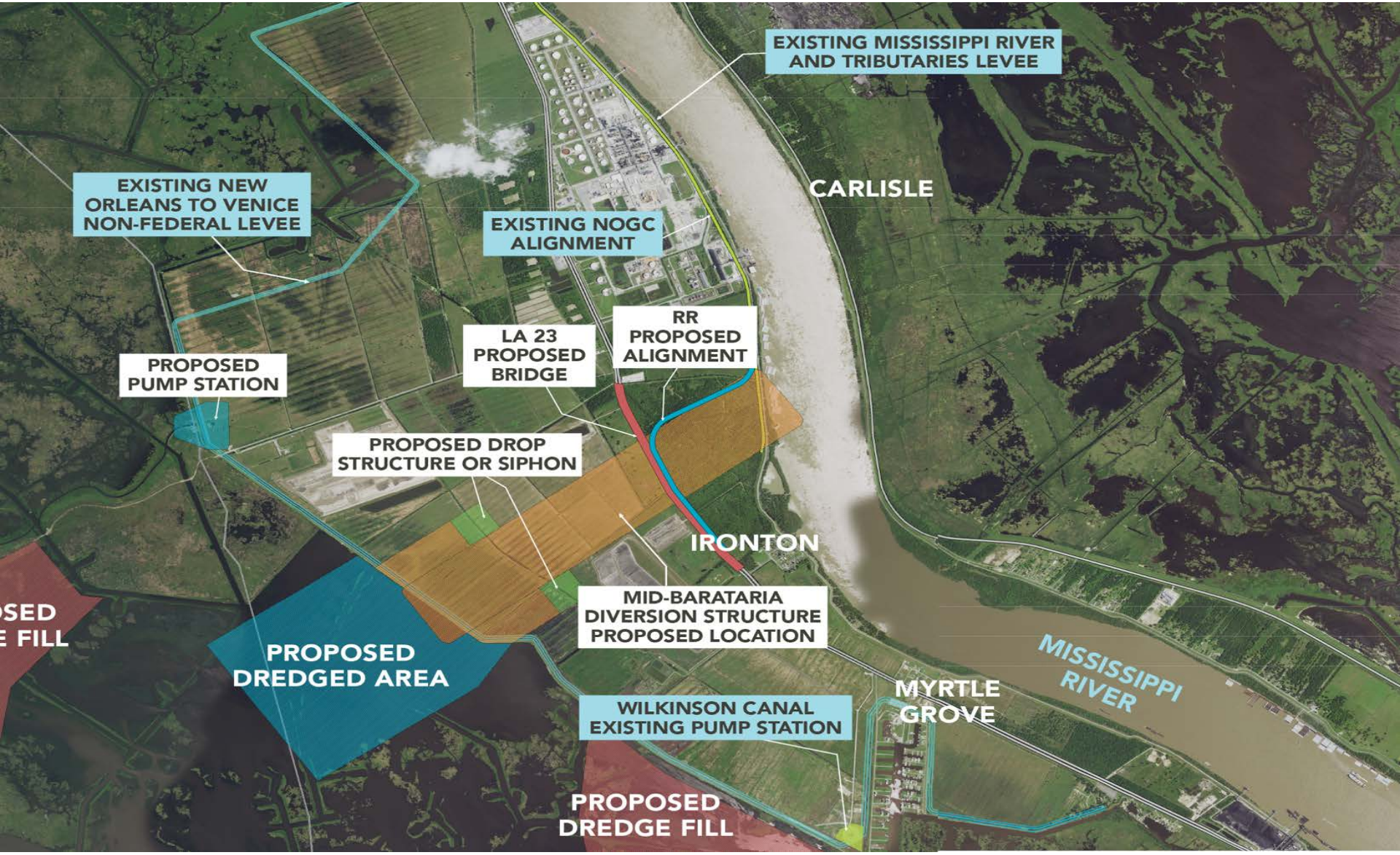
Our Projects

MBSD Project Location



Our Projects

MBSD Project Features

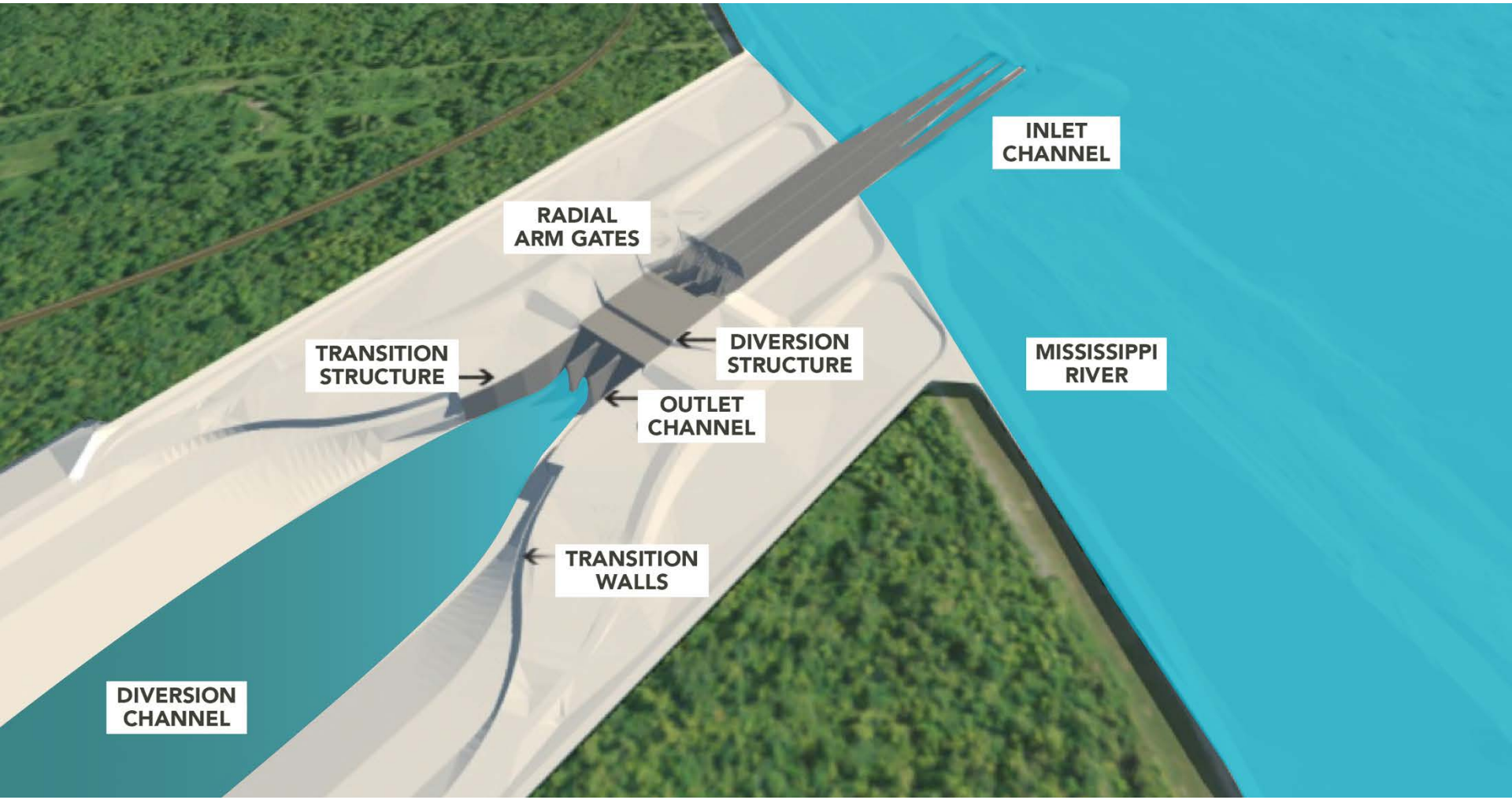


Our Projects

MBSD Project Features: Diversion Operations

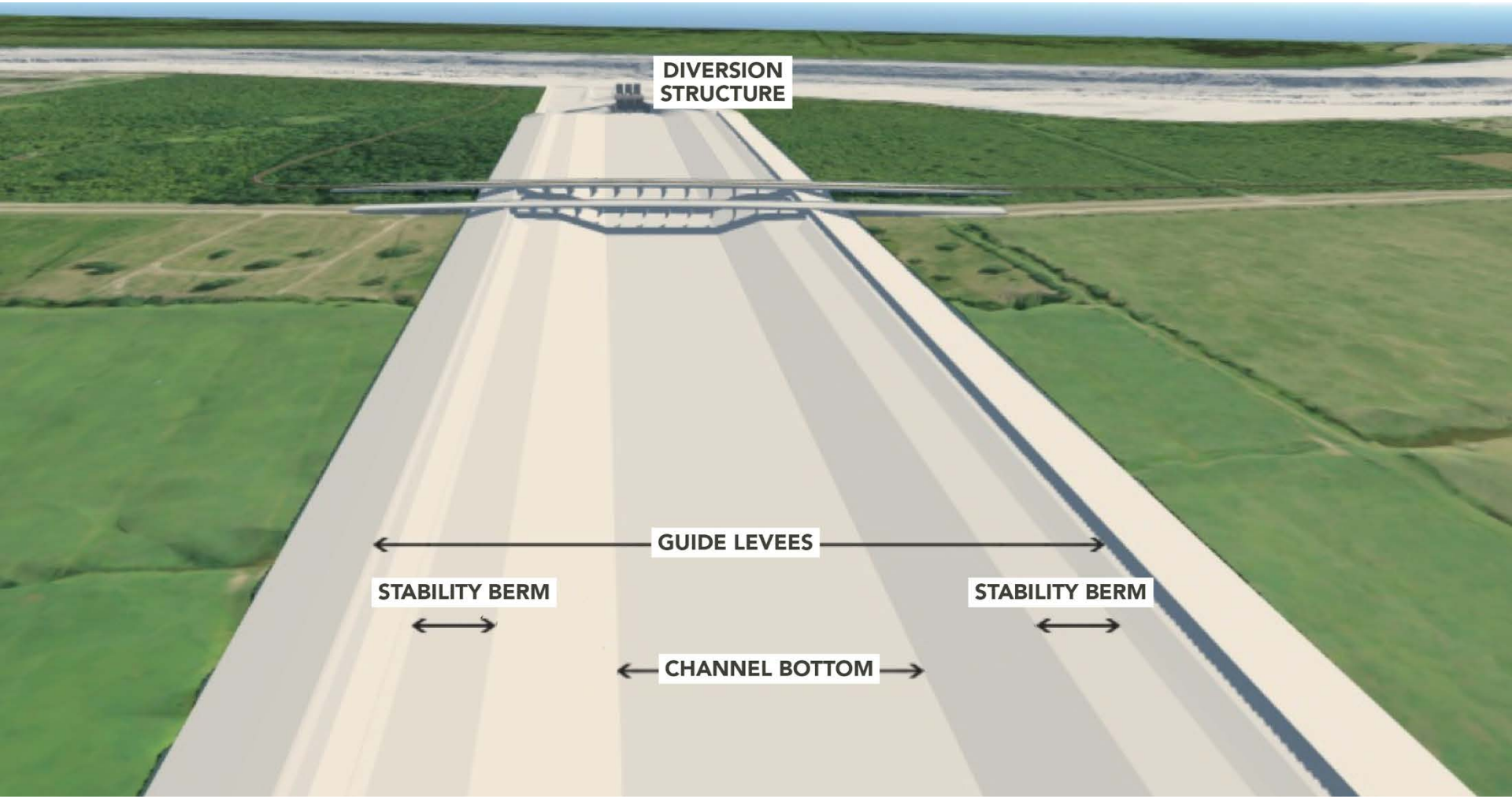
Our Projects

MBSD Project Features: Diversion Structure



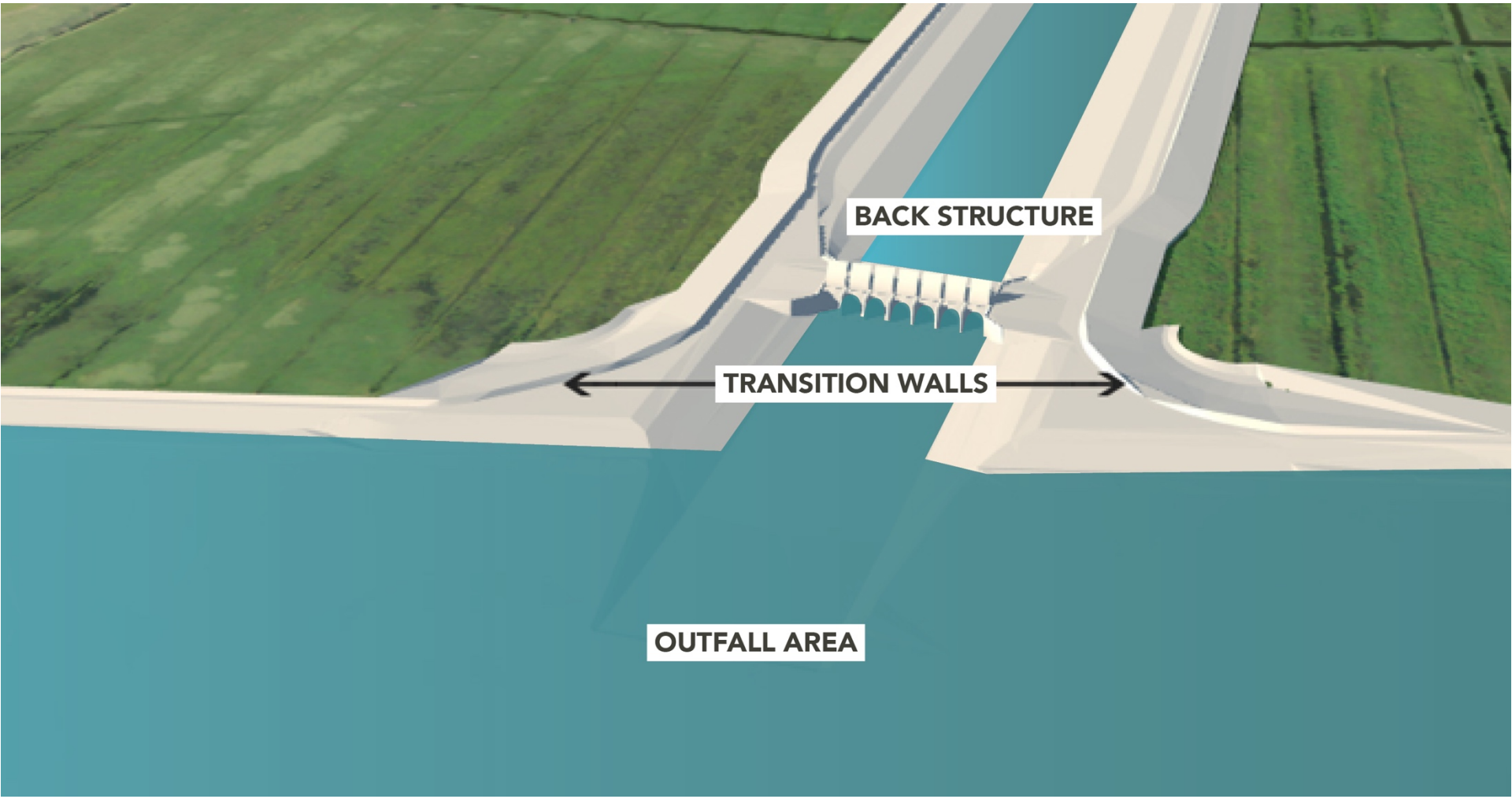
Our Projects

MBSD Project Features: Conveyance Channel



Our Projects

MBSD Project Features: Outfall Area



Our Projects

MBSD Permitting and Regulatory

Permitting
Coastal Use (LDNR), Navigation, and Wetlands

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

NEPA Compliance
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 of 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

Our Projects

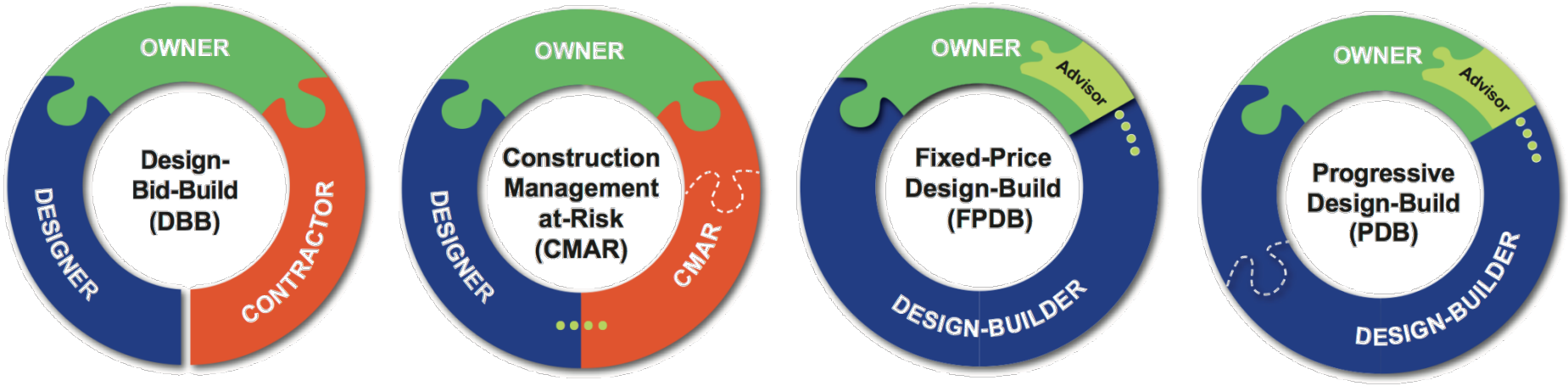
MBSD Project Status: Engineering and Design

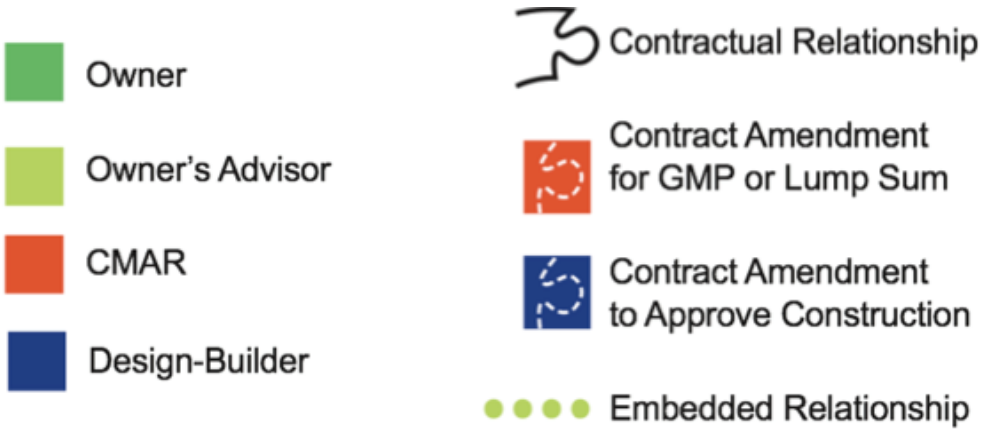
- A previous design firm advanced the design to < 30% level referred to as "2014 Base Design”
- DESIGN TEAM selection is currently underway; anticipated NTP is Fall 2017
- Project concepts of “2014 Base Design” to be validated by DESIGN TEAM during Basis of Design (15%) phase

Construction management at-risk (CMAR)

Our Program

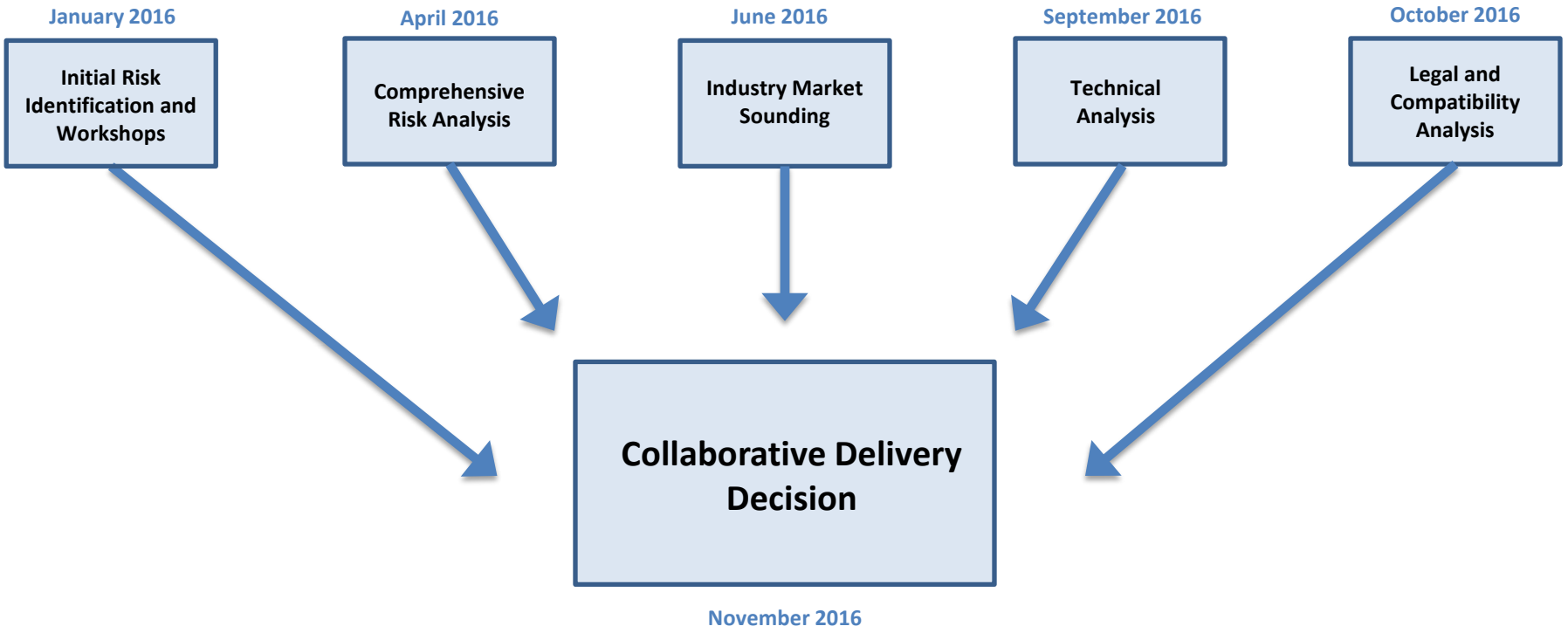
Collaborative delivery analysis





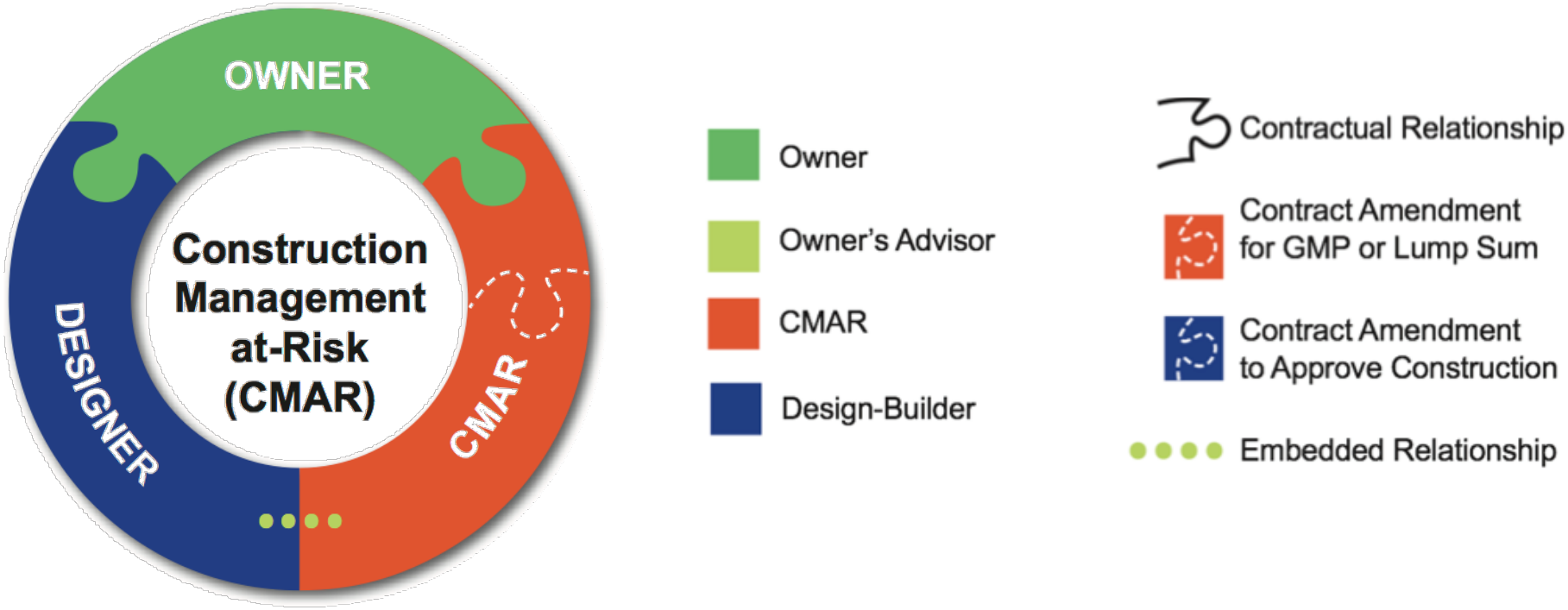
Our Program

Collaborative delivery analysis



Our Program

Collaborative delivery model - CMAR



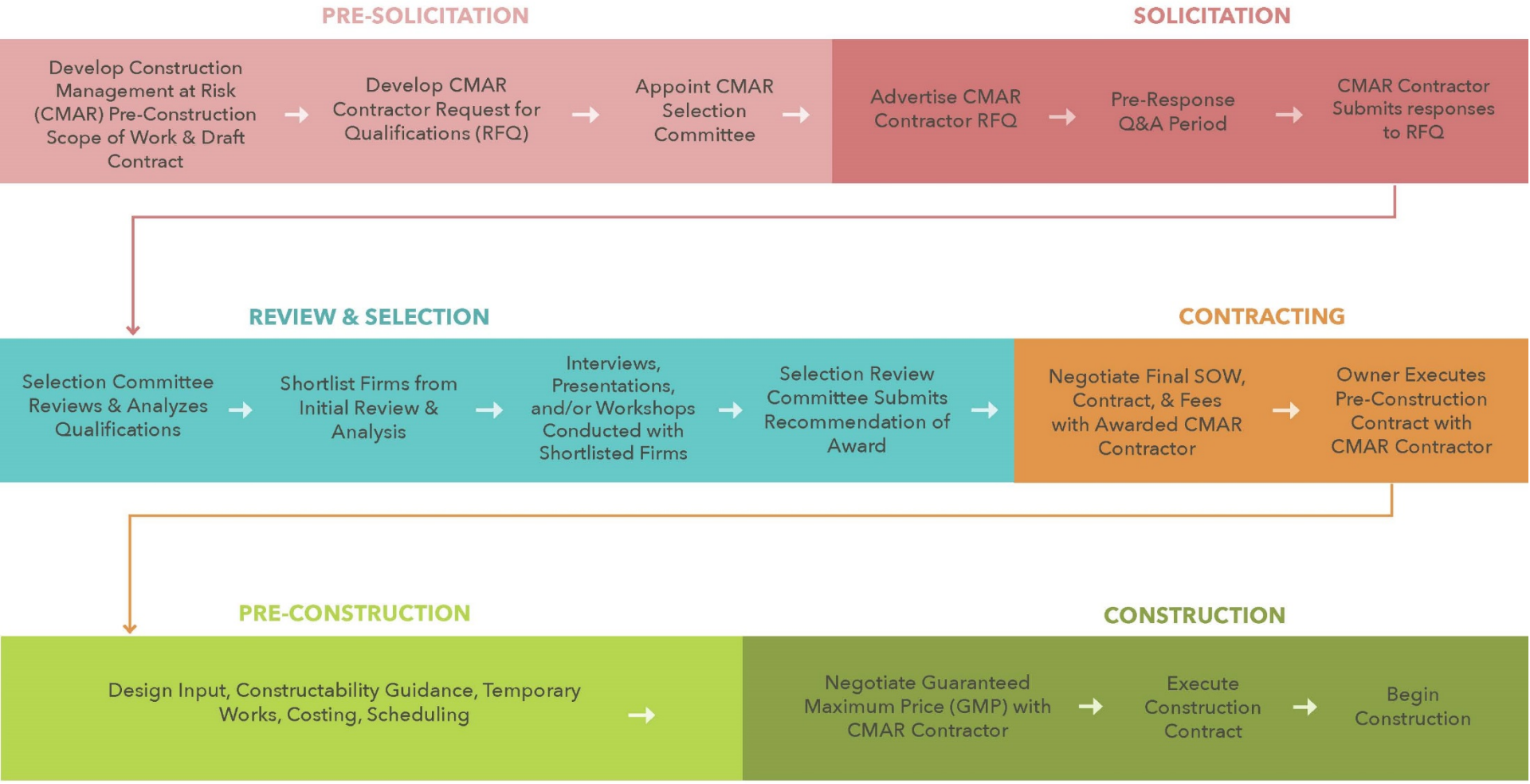
Our Program

Advantages of CMAR

- Legislation has been established for policies/procedures and protection against legal challenges (RS 38:2225.2.4)
- Provides contractor-led estimates earlier and allows scope revision during design to meet project budget
- Can reduce overall project risks and contingency; also may reduce design misunderstandings and change orders
- More suitable for the USACE/NEPA permitting and regulatory process than any form of Design-Build
- Widely accepted by both engineering and construction industry

Our Program

CMAR Process



Our Program

MSBD Schedule

August 2017-Anticipated advertisement for CMAR Procurement

November 2018-Anticipated completion of the 30% Design Phase

November 2019-Anticipated completion of the 60% Design Phase

June 2020-Anticipated completion of the 90% Design Phase

May 2021-Anticipated start of Construction Phase

Our Initiatives

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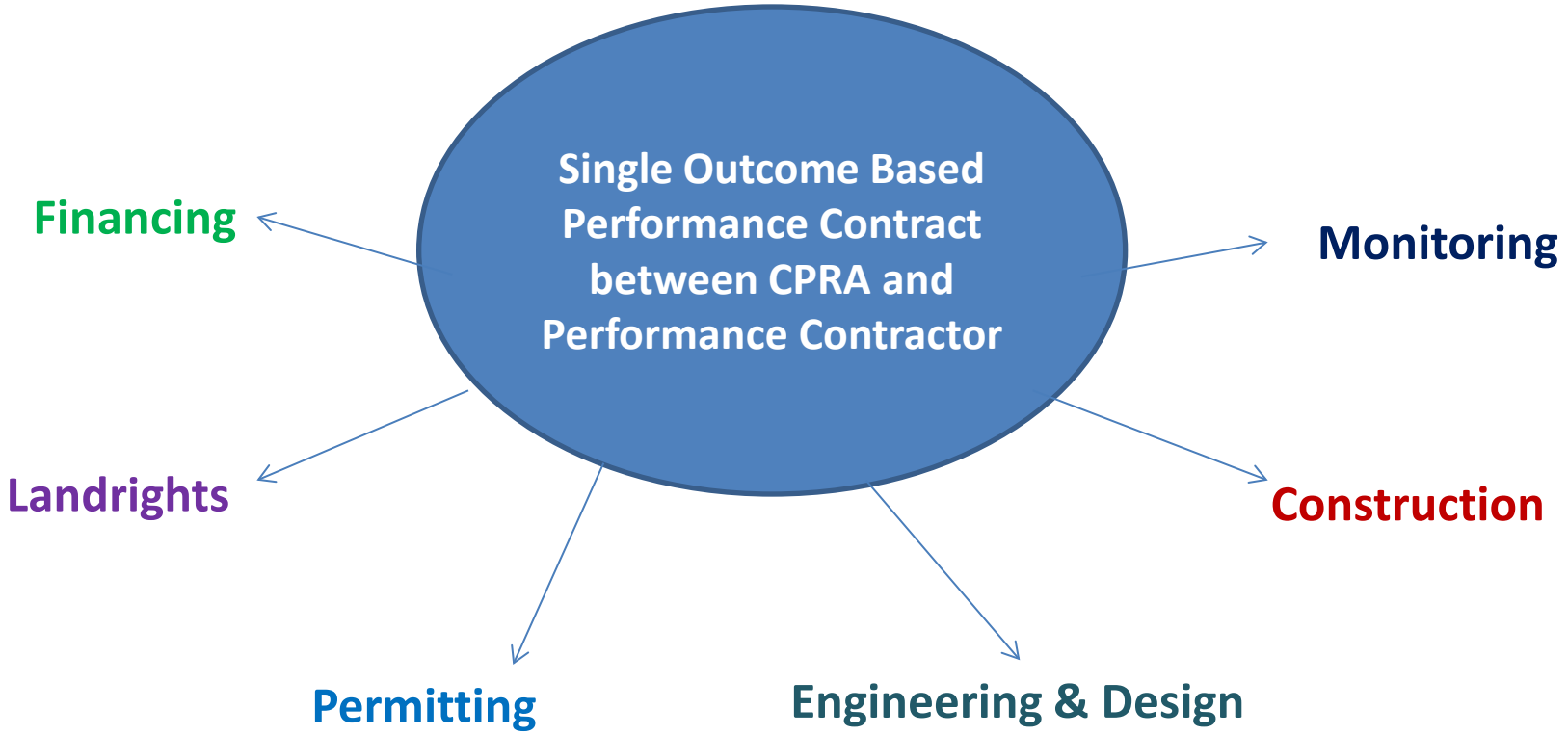
Our Initiatives

Outcome-Based Performance Contracting

- Clear definition of **performance criteria and objectives** by which to measure project performance.
- Clearly defined **assessment methodology and collection of data** on the performance criteria to assess project performance
- Schedule of **consequences** for Contractor, such as provision of rewards or imposition of performance adjustments based on meeting performance criteria and objectives for the project.

Our Initiatives

Outcome-Based Performance Contracting



Our Initiatives

Outcome-Based Performance Contracting

- Opportunity to utilize up-front private investment to get projects on the ground faster
- Significant risk-shift of project success to Contractor rather than CPRA
- Obtain better overall value (quality and price), innovation, and more efficiency
- Payment is based on Contractor meeting defined performance criteria for the Project not merely project completion, hence CPRA will only **"Pay for Success"** through an outcome-based performance contract

Our Initiatives

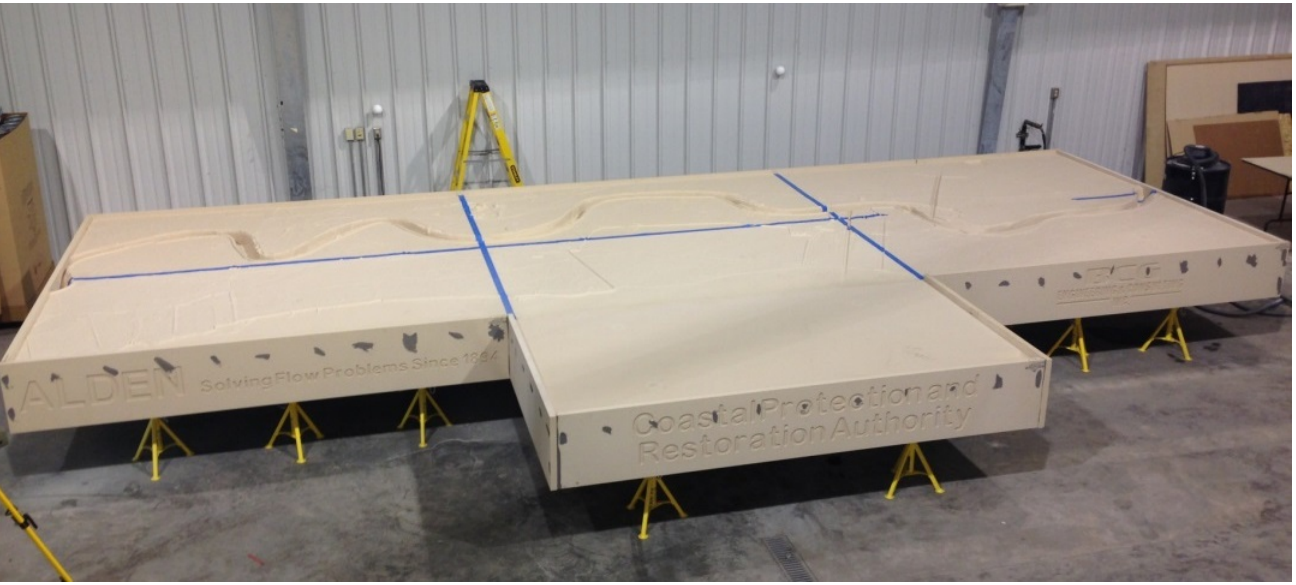
Center for River Studies

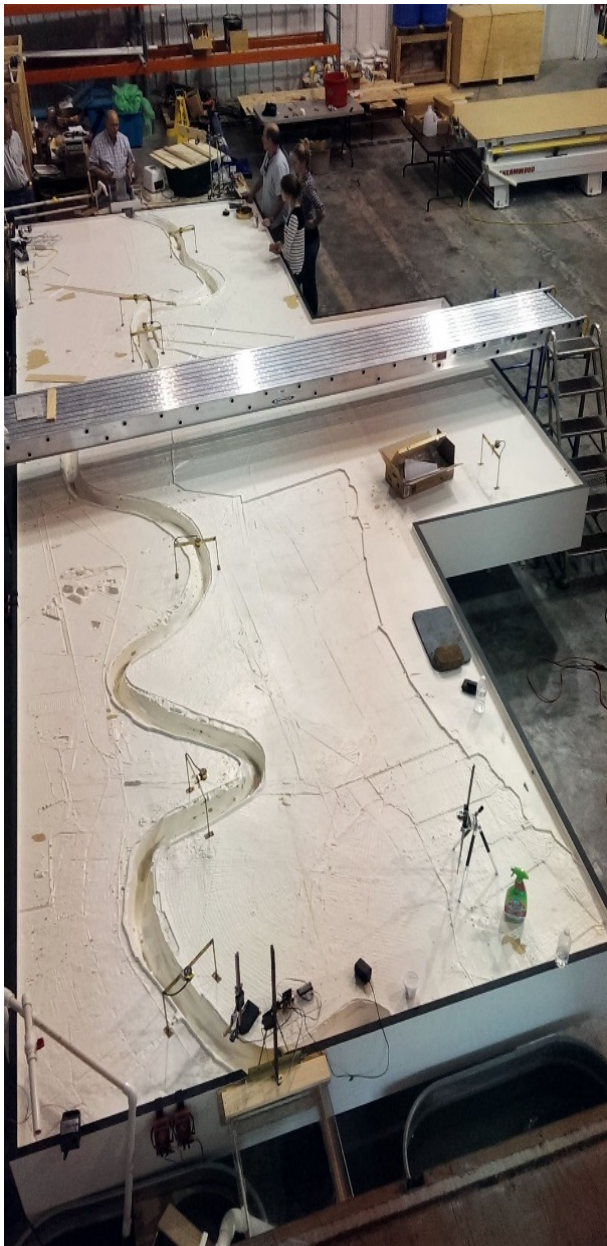
- Partnership between CPRA and LSU
  - Explore river management strategies for the Lower Mississippi River

- Opportunity to communicate Louisiana's coastal crisis, showcase the coastal program, and display depth of ongoing research and innovation

Our Initiatives

Lower Mississippi River Physical Model





Our Initiatives

Coastal Exhibit Area

Achieving Our Mission for Coastal Louisiana's Future

CPRA was established as the single, centralized, State of Louisiana Authority, to consolidate state, parish and federal personnel and resources to create, coordinate and implement a Comprehensive Master Plan of unified vision for remediation, restoration and protection, to reduce hurricane storm surge flood impact, to restore our bountiful natural resources, to protect our nation's critical energy infrastructure, and to secure Louisiana's coast now and for future generations.

CONNECT WITH US!

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Instagram: **@la_cpra**

Email Sign up: **www.coastal.la.gov**