

2029 COASTAL MASTER PLAN COMMITTED TO OUR COAST

DECISION FRAMEWORK AND PLANNING TOOL

MICHAEL T WILSON CHRISTINA PANIS



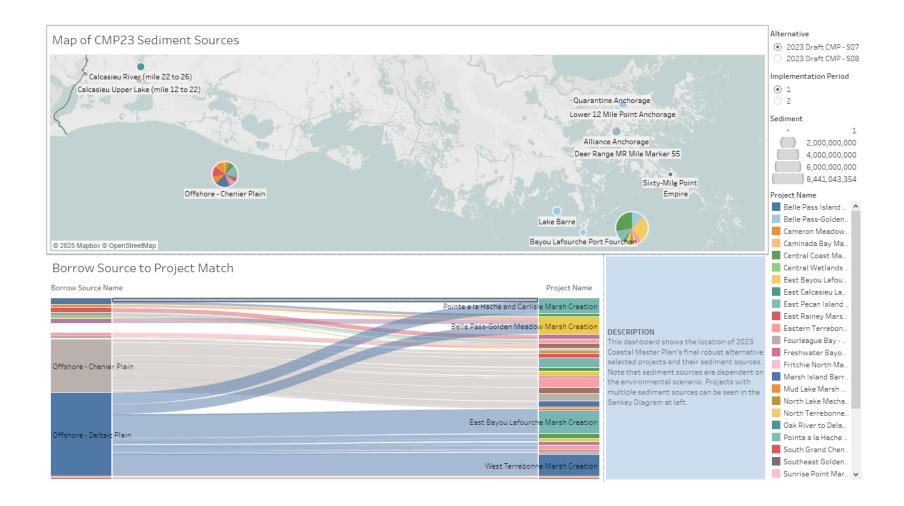




MAY 21, 2025

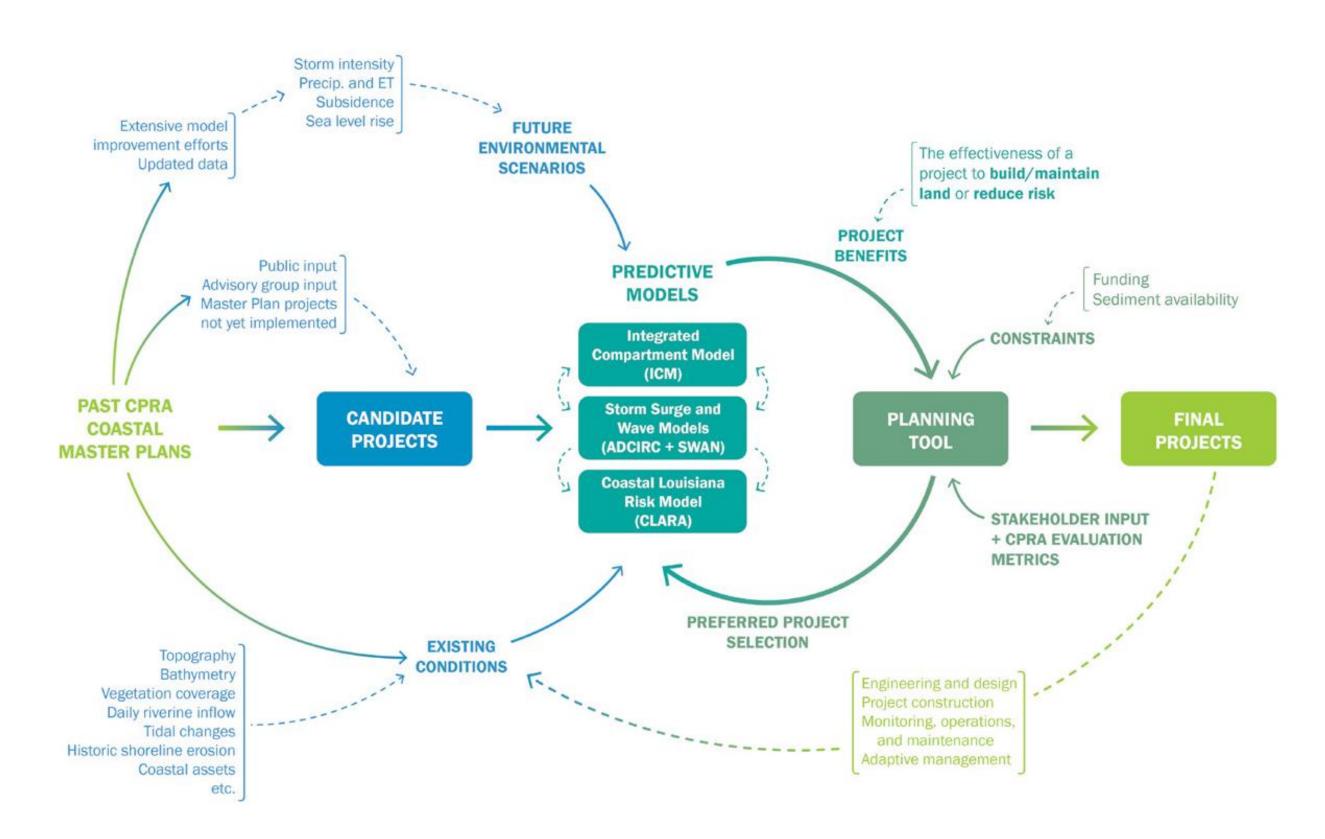
MEETING THE GOALS OF THE MP29 PROCESS

- Building on successes of previous master plans
- •Improving usefulness and accessibility of master plan modeling
- •Communicating the potential futures of our coast for coastal communities
- •Aligning master plan decision-making with how CPRA implements projects



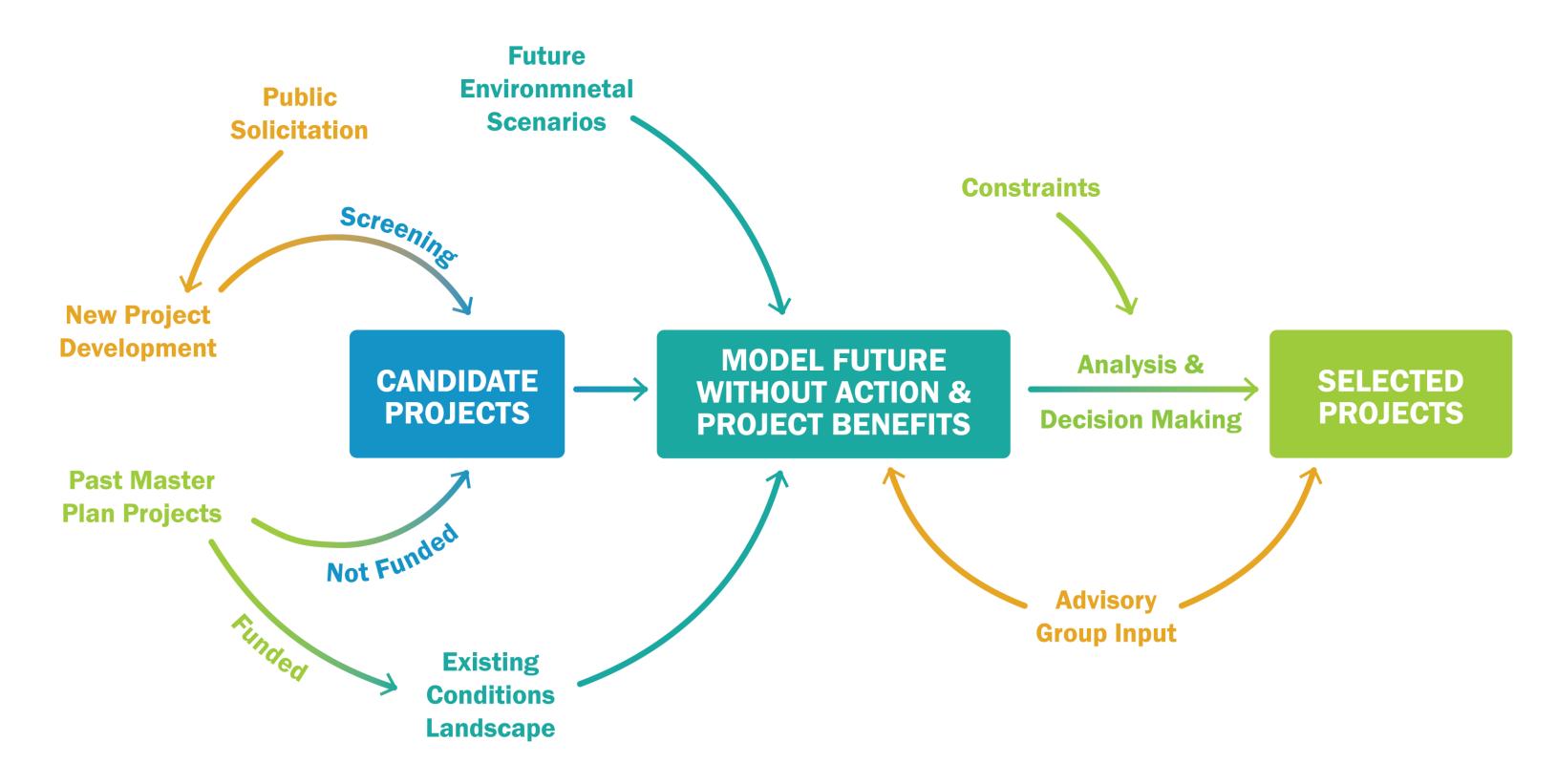
For example, we started by taking a deeper look at MP23 sediment sources. Were some sources constraining? Were river sources being maximized?

RELATIONSHIP AND ROLE OF THE PLANNING TOOL

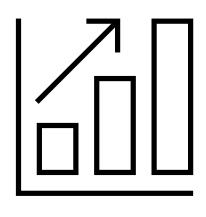


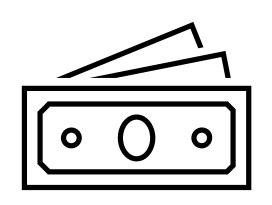
The Planning Tool is a key opportunity to incorporate feedback into the decisionmaking process.

ZOOMING IN ON THE PLANNING TOOL PROCESS...

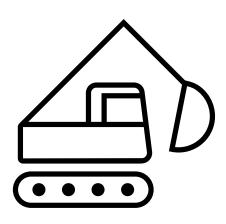


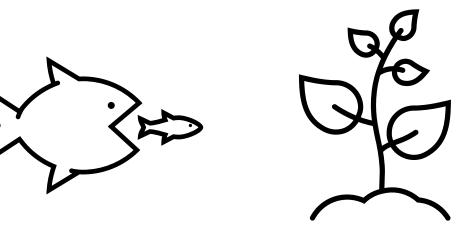
WHAT MIGHT CONSTRAIN PROJECT SELECTION?











Benefits over Time

Budget
Size and Type

Construction Feasibility

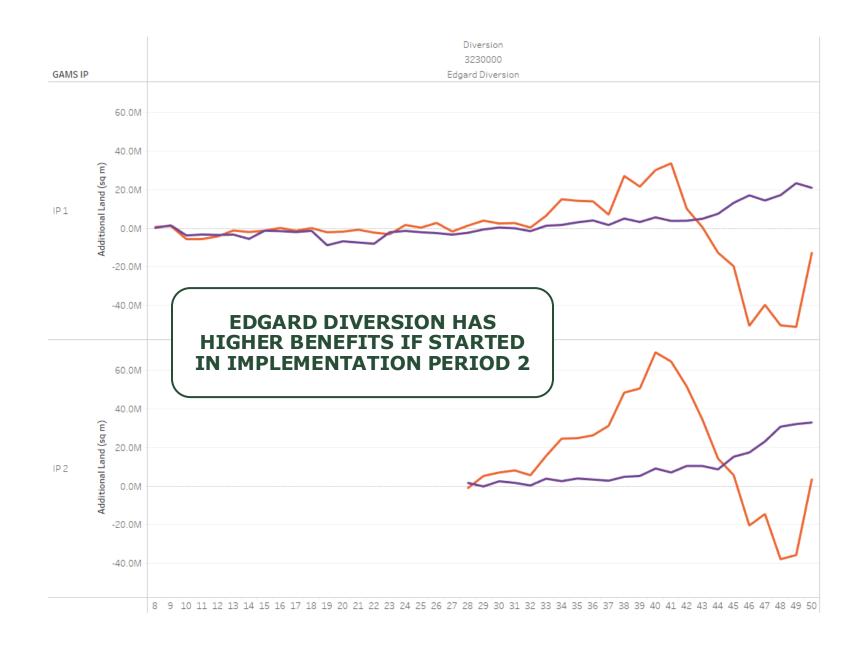
Available Sediment and Location

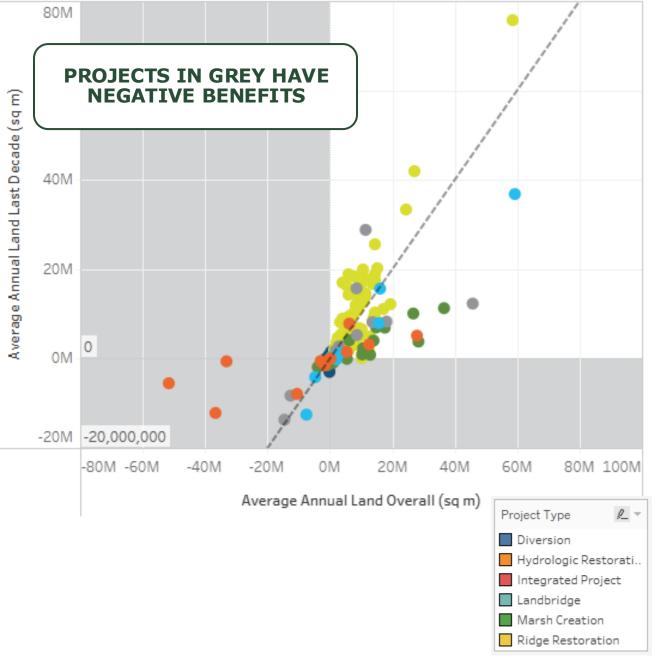
Relative Competitiveness

Environmental Scenarios

BENEFITS OVER TIME

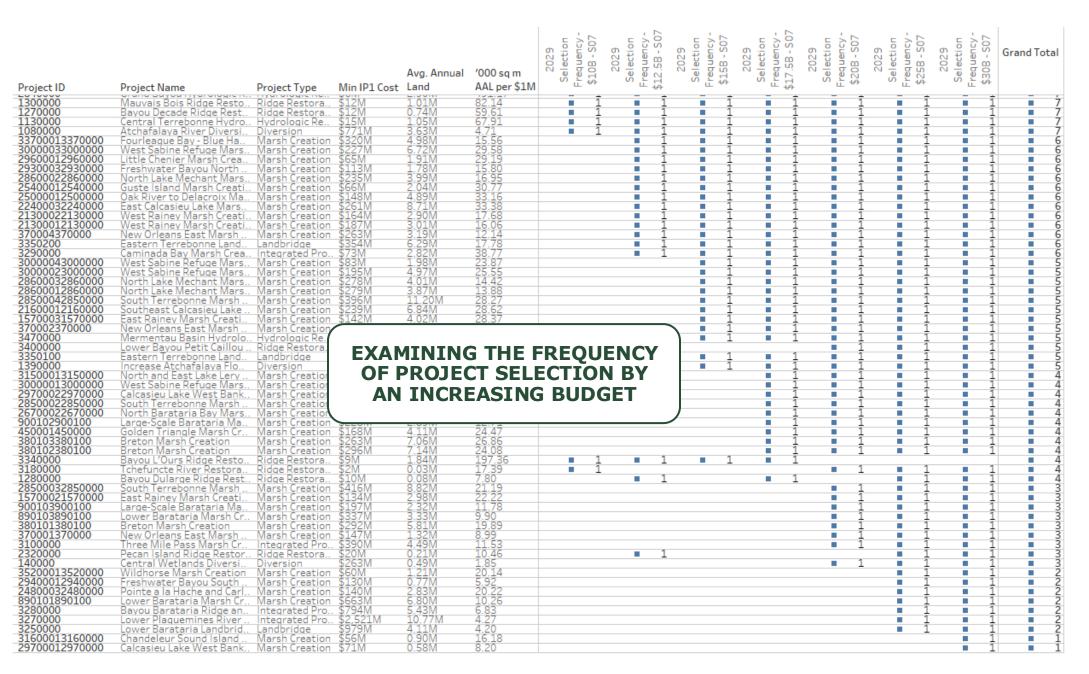
Analysis from MP23 included Robustness and Land Sustainability

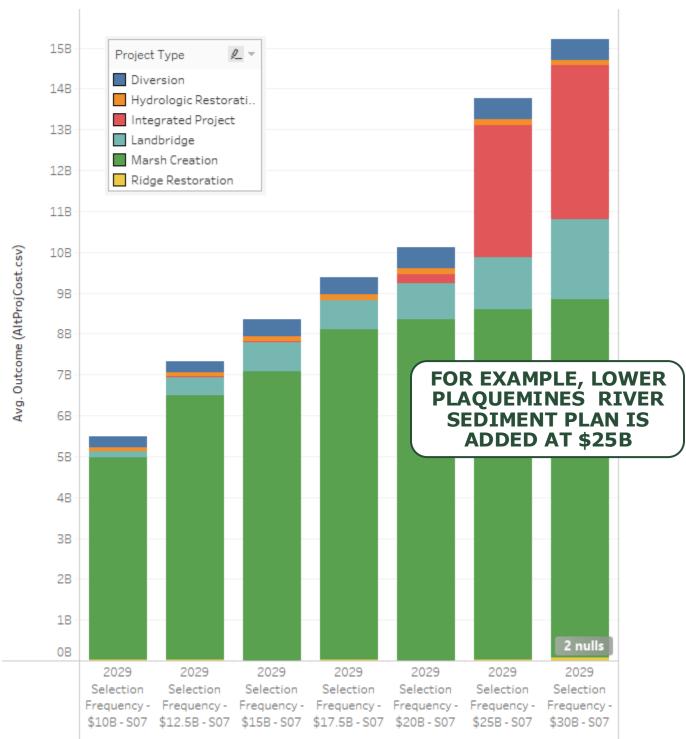




BUDGET SIZE

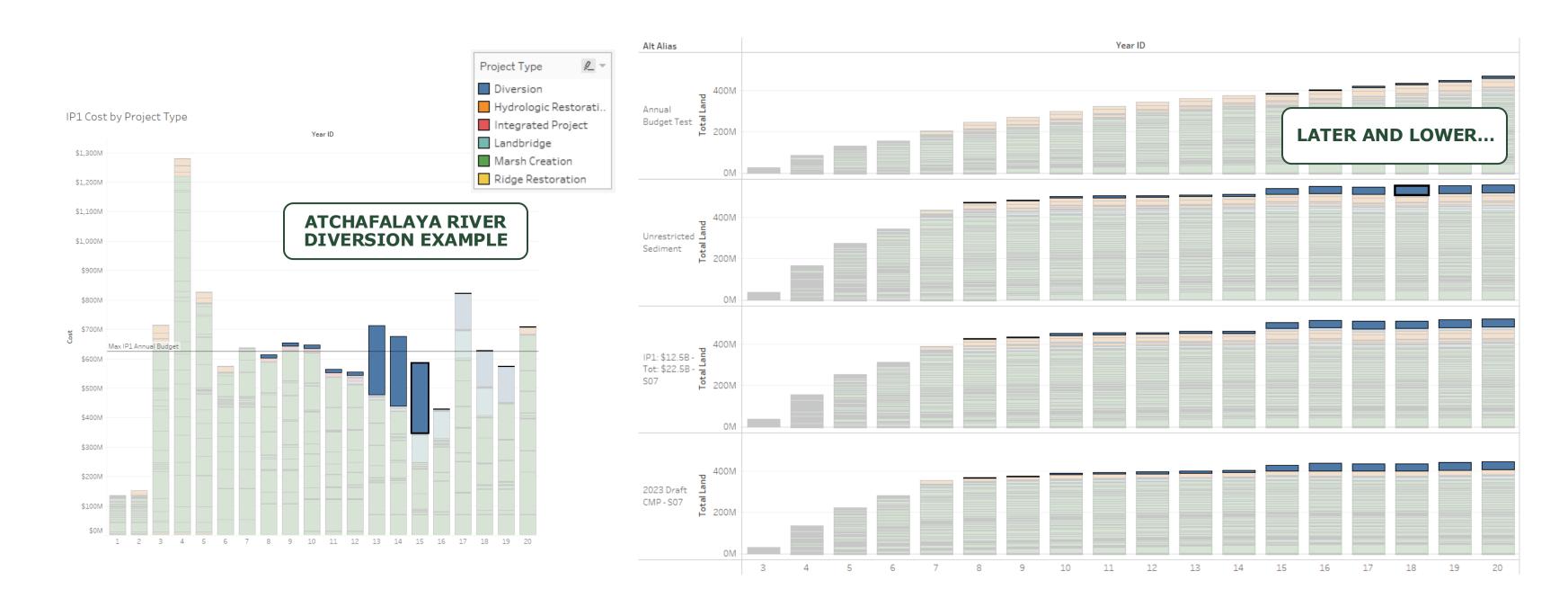
Project Selection Unlimited by Sediment





BUDGET TYPE

Foresight Improves Use of River Sediment and Shifts Benefits in Time



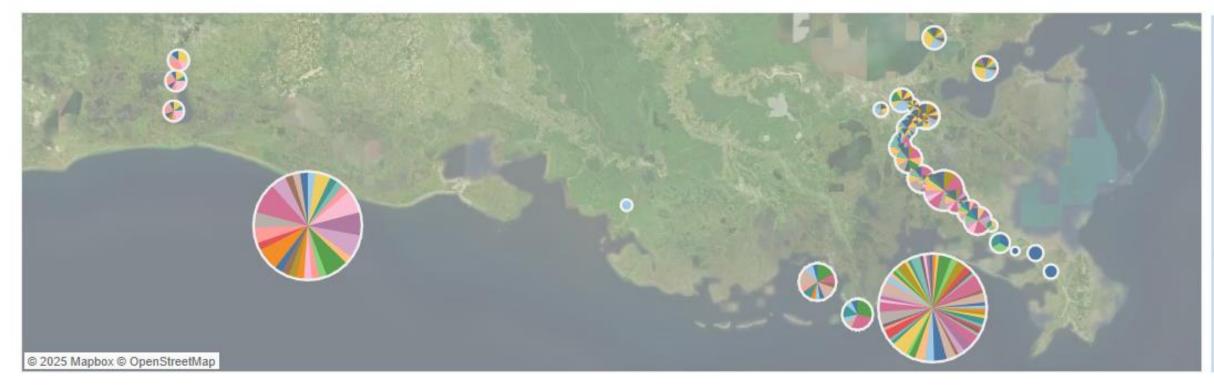
CONSTRUCTION FEASIBILITY

Annualized Phasing Offers a New Understanding of Projects



SEDIMENT LOCATION

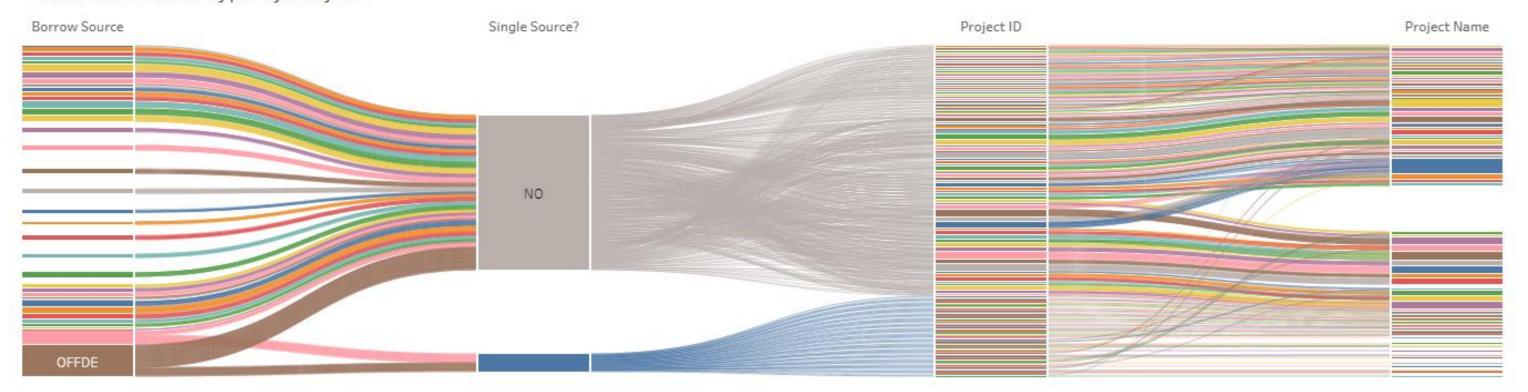
Understanding Project-Level Borrow Source Choices



DESCRIPTION

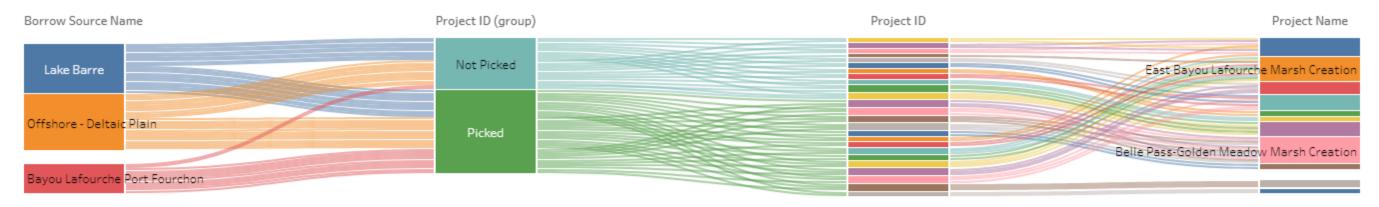
The map at left displays interior, river, and offshore sediment source locations. The borrow requirements of each element are pie sectors, color coded by project. The Sankey Diagram below can be used to trace a borrow source to its potential elements, or a project back to its potential borrow sources. Single source indicates whether an element can only use that particular borrow. Clicking on the thread brings up a tool tip, whereas selecting a box highlights all of that project, borrow, source, etc. Subsequent tabs allow for filtering by individual projects or sediments.

Sediment Source Type by Project



SEDIMENT AVAILABILITY

Lake Barre Sediment Source Projects Comparison



Projects Selected in IP1 under S07 for \$12.5B Budget

			Optima	l Source?	
Sediment Source Characteristic	Project Name	Project ID	Not Optimal Sediment	Optimal Sediment	
Picked Optimal	Belle Pass-Golden Meadow	12300011230000			^
Sediment	Marsh Creation	12300021230000			
		12300031230000			
		12300041230000			
	North Terrebonne Bay Ma	12500011250000			
Not Enough of Optima	Eastern Terrebonne Land	33500013350000			
Picked Not Optimal	East Bayou Lafourche	33000013300000			
Sediment	Marsh Creation	33000033300000			
		33000043300000			
		33000053300000			
	Eastern Terrebonne Fring	33800013380000			U
	0 1 7 1 11 1	00500000050000	_		

Projects Not Selected in IP1 under S07 for \$12.5B Budget

			Not Optimal Source?	
Sediment Source Characteristic	Project Name	Project ID	Not Optimal Sediment	Optimal Sediment
Optimal Sediment Source	Eastern Terrebonne Landbridge	33500023350000		
		33500033350000		
	Eastern Terrebonne Landbrid	33500023350200		
	Eastern Terrebonne Landbrid	33500033350100		
	Greater Terrebonne Bay Rim	33600063360000		
	Ridge Restoration with Marsh	33600073360000		
	South Terrebonne Marsh	28500022850000		
	Creation	28500032850000		
Less Cost Effecti	South Terrebonne Marsh Crea	28500042850000		

Pake Barre

DESCRIPTION

The above table examines the characteristics of sediment sources selected:

Picked Optimal Sediment - was available and competed favorably

Not Enough of Optimal Sediment Source – some elements competitive for optimal sediment, but others were able to be effective using another source (landbridge and integrated projects)

Picked Not Optimal Sediment - was wholly outcompeted by other projects selected in MP23, but even when using sources other than the most optimal, it was still an effective project

Picked IP/Landbridge - part of a broader project

DESCRIPTION

The Sankey Diagram at top explores one source of sediment, Lake Barre, to understand how projects accessed one of the more competitive borrows. Selecting whether elements were picked or not points back to the sources or the projects.

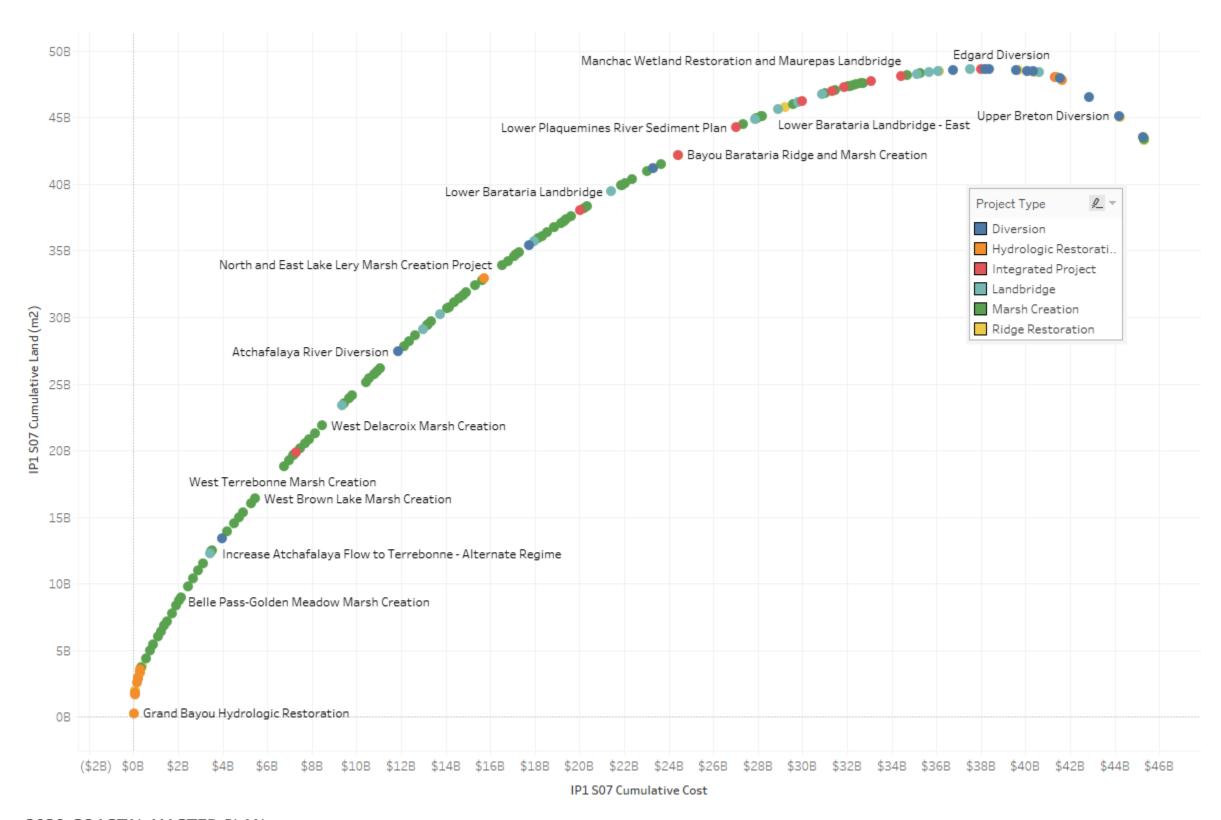
The above table examines the characteristics of sediment sources for projects not selected:

Not Enough of Optimal Sediment Source - was partially outcompeted, and was not effective using another source (landbridge and integrated projects)

Less Cost Effective than Average Project - even if another low-cost source was available, would not be effective

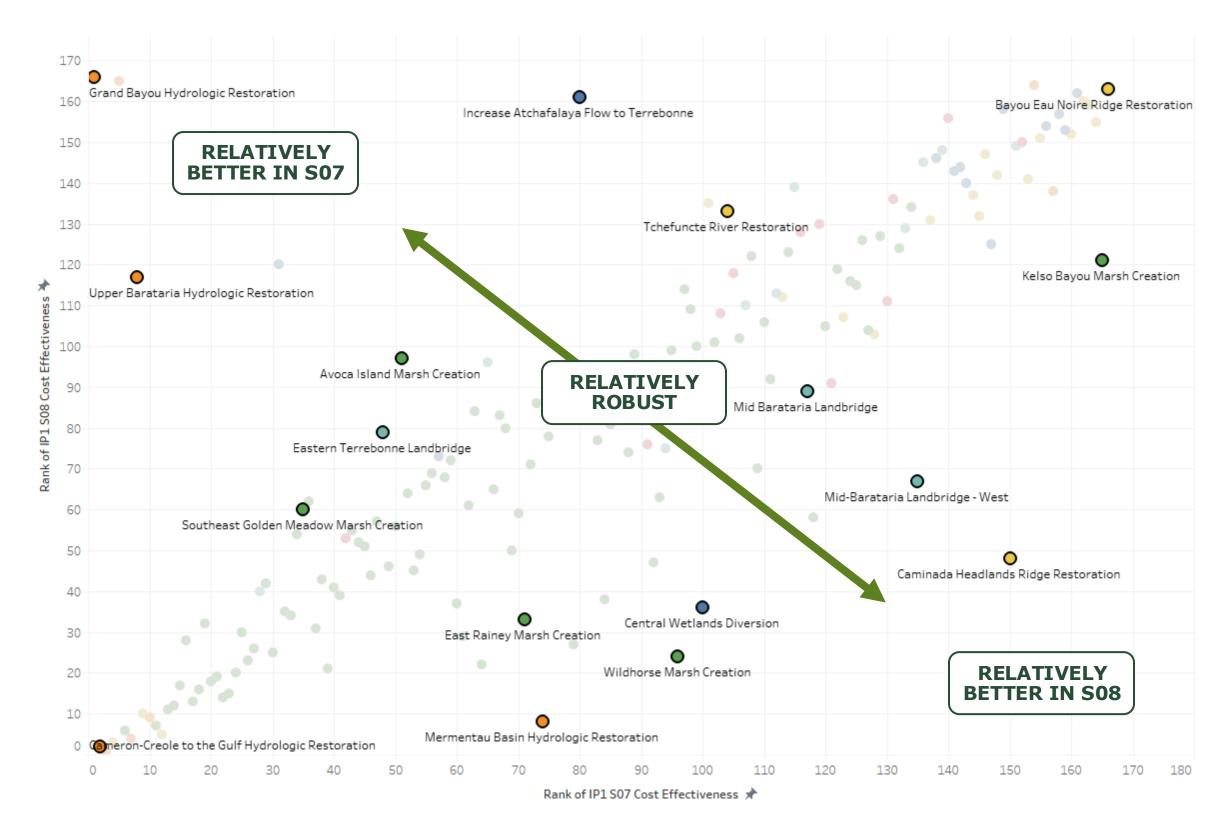


RELATIVE COMPETITIVENESS



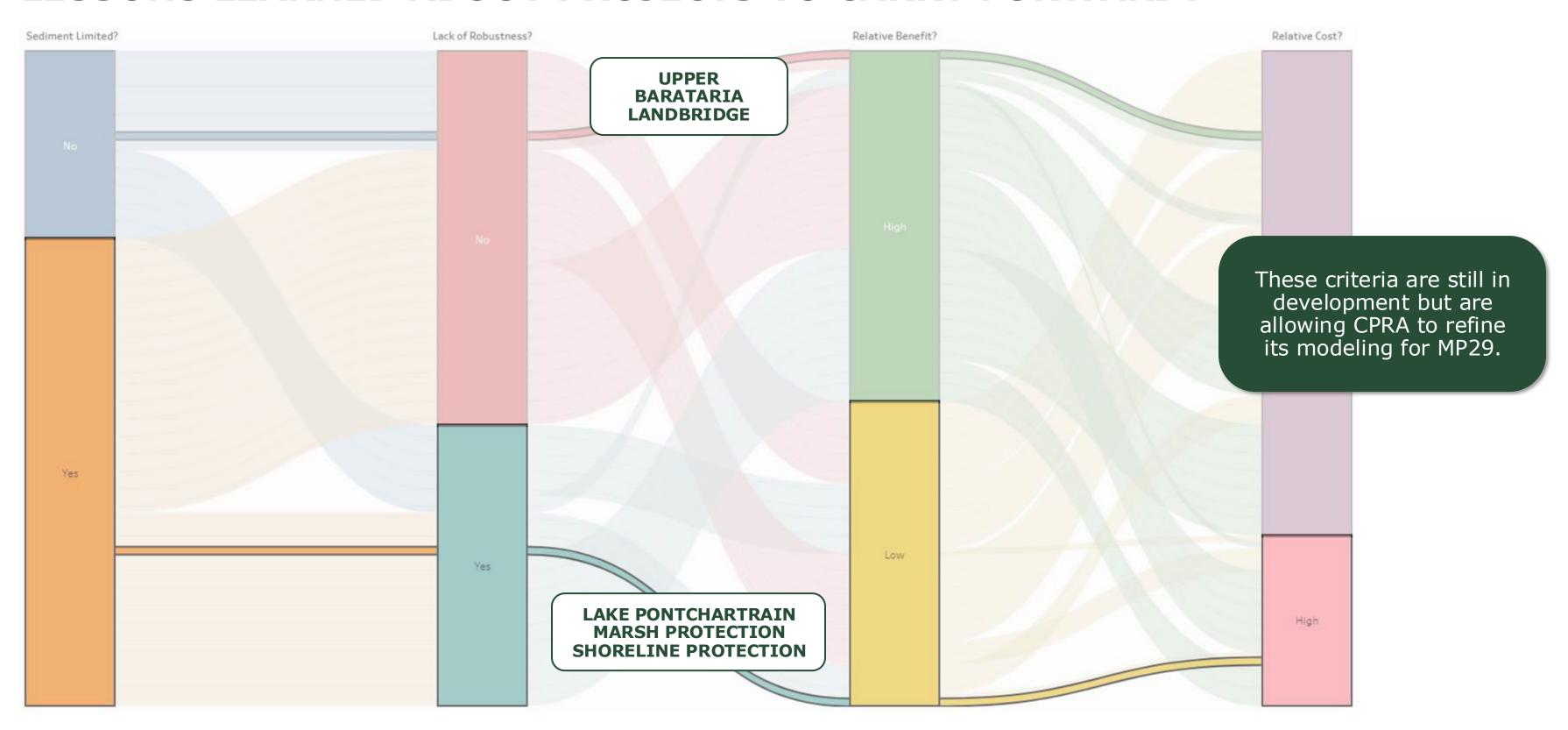
Ordering cumulative cost and benefit by rank gives a sense of the marginal next best project, with an inflection point for IP1 S07 around the Edgard Diversion example seen earlier.

ROBUSTNESS TO ENVIRONMENTAL SCENARIO



Comparing the S07 vs S08 rank orders for IP1 highlights the importance of robustness decision framework to the MP23 Planning Tool.

LESSONS LEARNED ABOUT PROJECTS TO CARRY FORWARD?



THANK YOU!

masterplan@la.gov

Ashley Cobb, Brett McMann, Jessica Converse, Jordan Fischbach, Katie Freer-Leonards, Valencia Henderson, Sam Martin, Christina Panis, Denise Reed, Eric White