

Corey Thomas Miller Outreach & Engagement Director Managing Natural Resource Conflicts while Implementing Large-Scale Ecosystem Restoration



# History, Culture, Significance

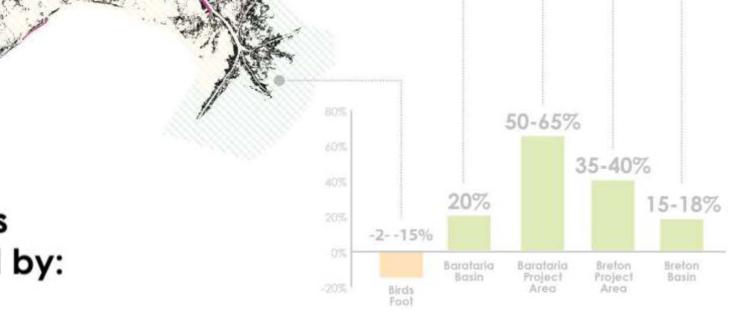


### **CPRA Recommendation:**

Advance Mid Barataria and Mid Breton sediment diversions to engineering and design. DIVERSION DECISIONS & FISHERIES IMPACTS

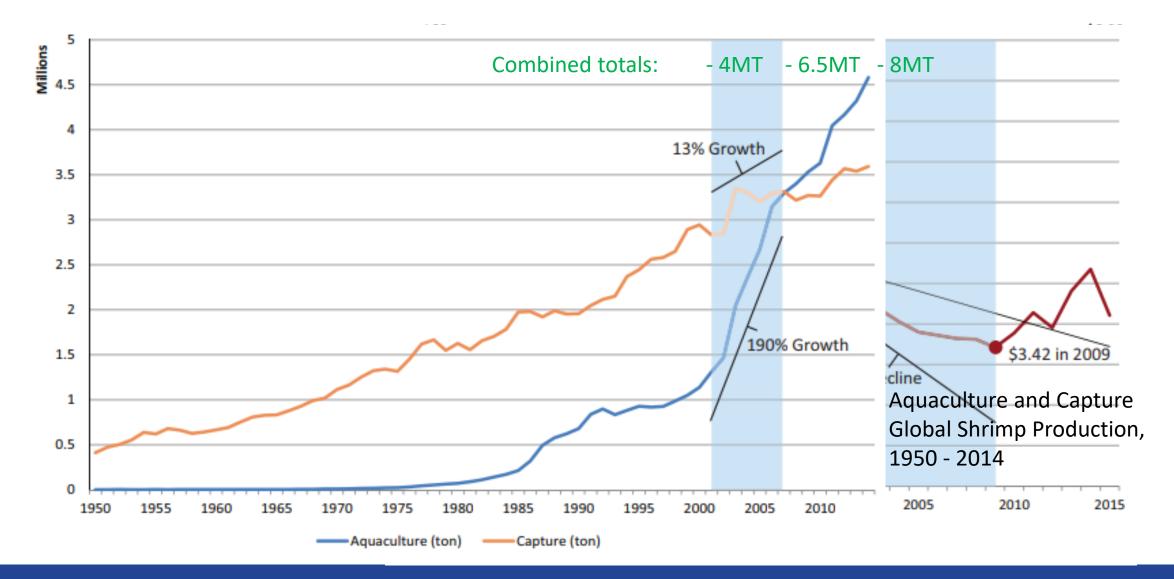
> FWA VS. FWAO

Land Loss Reduced by:



### LA's Shrimp Value Chain





### Sell more shrimp directly...



...And within that, sell shrimp for higher value through improved handling and marketing....



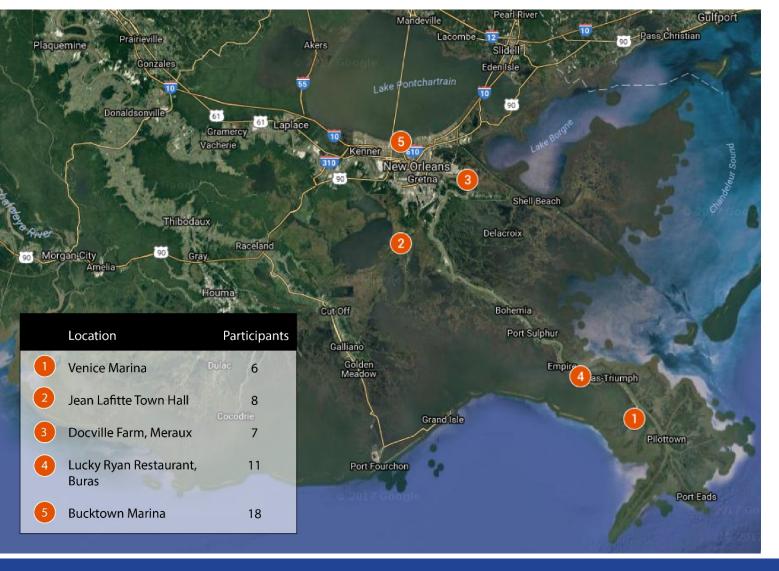
# **Shrimping with Diversions**

#### Mix of socioeconomics

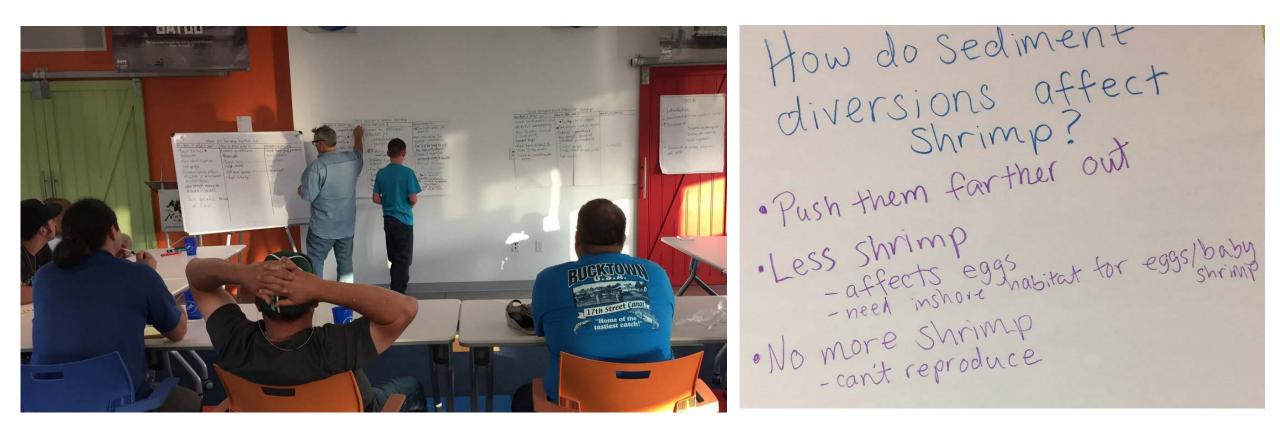
- Age (range of 22-78 years old; 64% of participants were 45-65 years old)
- Sources of income: 55% part-time shrimper, 45% fulltime

Mix of business operations

• Boat and gear type



## **Shrimping With Diversions**



## SHRIMPING WITH DIVERSIONS



	No brown Shrimp (esp. Empire + Venice)			
	How does it affect you?	How to deal with it	Needs Obstacks	
	No shrimping business -no work, no income	<ul> <li>Switch to crabbing or other fisheries</li> <li>New career</li> </ul>	• Can't get license for oysters + other fisheries - Need to apprentimestip	
>/	· Less Fishing opportunity · Buy a different boat	•Need assistance finding new jobs ble de language barrier	"Few job options here	
$\times$	to fish other species -invest money	-Hered Help identifying new place to	· Might not be able to sell boat + house	
	·Stay home •Move some place else to	move + job options + more flood protected - Sell boat "Works for people who haven't invested - Sell house For people who haven't invested For people who have been stringing for existen - Bun-out order and BI, not enough a Houston	· Language barrier · Moved From Vietnom to	
	Find New careers	and and be all wine premase in our	· Louisiana to more	
		else would buy the boat-sevenybody would want to move "Get money to move * Job that bays at least SIS/per how?	-Lites the freedom of the USA. Fisheries are affected too, investment is not worth it	
		To Job That pays at least SIS/per how?	affecting too, investig	

### SHRIMPING WITH DIVERSIONS

#### **Catch More Shrimp**

1	Strategies And Avenues To Accomplish Adaptation	Obstacles To The Avenues
•	Improve currently owned fishing vessel by upgrading the fishing versatility and capacity. (Examples include gear and storage upgrades.) Help accessing subsidies <sup>2</sup> , grants, or low interest loans to offset upgrade expenses.	<ul> <li>Improvements may be too expensive or require too much additional labor time from the shrimper.</li> <li>Upgrades may not be compatible for current vessel size, configuration.</li> <li>Current loan opportunities are unavailable or undesirable.</li> </ul>
•	Work more hours/days per trip (increase fishing effort).	<ul> <li>More time working places burden on business, family and overall quality of life.</li> </ul>
•	Limit entry of new commercial shrimpers to regulate fishing pressure <sup>1</sup> .	(Nothing formally commented; see researcher observation below.)     The researchers acknowledge that restrictions on access to commercial fisheries has rarely occurred without conten- tion from some segments of the industry.
• •	Increase range of fishing trips (travel further to seek greater distribution/ more productive areas). Access to fuel subsidies or rebates from the state based on boat type/size that would cover increased costs. Access to gear and engine fuel efficiency upgrades.	<ul> <li>Insufficient investment capital for purchasing additional fuel and supplies to maintain boat and crew.</li> <li>Required to be away from home for too long, dock in remote areas that are less secure and stay in temporary housing such as motels.</li> </ul>
•	Move household and shrimping business to an alternate community near areas with more shrimp (i.e. relocate to a different basin). Access to relocation assistance could facilitate.	A relocation trend may result in excessive fishing pressure in those areas and be counter-productive.     Families/businesses may be unable or unwilling to pay the costs of relocation.     Relocation may be too demanding on elderly shrimpers and families.
•	Convert to an offshore <sup>4</sup> (deep water) vessel. Financial assistance programs could facilitate upgrade to a larger boat (> 50 ft.) and appropriate gear type suitable for offshore conditions. Trainings for learning a new type of shrimping practice and business operation could assist transition.	Capital investment to acquire, operate, and maintain the large vessels required for offshore could be cost-prohibitive (more expensive gear, larger crew, longer trips, more fuel, added supplies, etc.)     Offshore fishing conditions are less safe.     Difficulty and cost of having to learn a new type of shrimp- ing in unknown waters.     Consolidating fleet in these areas could result in excessive fishing pressure.     Can be difficult to keep stable deckhands.     Diminished quality of life due to longer hours/days at sea.

#### Sell Catch for More Money

#### Strategies And Avenues To Accomplish Adaptation Obstacles To The Avenues Strategies And Avenues To Accomplish Adaptation Obstacles To The Avenues Fish other fisheries. Legacy issues of historic over-fishing practices . Could include existing commercially harvested saltwater or Entry into other fisheries (e.g. mullet, oysters) is too limited Take steps to address the dockside price issues caused (Nothing formally commented; see researcher observation freshwater species or allow entry into currently restricted Harvestability of other saltwater species might dwindle by imported shrimp placing downward pressure on local below.) species. Allow the use of more effective finfish fishing similarly to shrimp. shrimp economy. Ideas that were suggested included: However, it should be noted that these avenues are largely methods such as gillnets or strike nets. Sport fishermen lobby seen as a strong opponent in Leadership (in the form of lobby, unionization, or some countering efforts to allow commercial harvest of certain advocate for tariff on imported shrimp (to President outside the control of individual shrimpers and could other organization) will likely be required to enact legal enaciae Trump), federal government program that buys domestic literally take an act of congress. Regardless, the researchers changes. New management protocols could provide Market for freshwater species is undeveloped and small. Buying new gear could be too high of a cost and low intershrimp at guaranteed price (contract), increase inspection believe it is an important avenue to investigate since an sustainable regulation of newly accessible fisheries. Assistance with accessing subsidies or loans could support est loans are difficult to qualify for. of imports, consumer education, and proof on menu. increase in dockside price is the ONE avenue that increases purchasing appropriate boats and/or equipment to fish Takes time for investment to payoff, may not be feasible for economic resilience across the full range of vulnerability. other fisheries. Trainings could educate on how to harvest older fishermen. other fisheries Some fisheries require an apprenticeship before fishermen Saltwater species that could be utilized: redfish, mullet, can obtain a license Direct market shrimp to skip steps in the supply chain and Direct sale requires a significant additional effort beyond speckled trout, white trout, sheepshead, crab, shark, and sell directly to consumers or retail vendors (restaurants, selling to the dock and will only help a small percentage of ovsters. Freshwater species that could be utilized: catfish or garfish. grocery stores, etc.). Selling value added products (like shrimpers who are able to transition to that model. Jobs in local industry like oil, navigation, or restoration. Elderly age, lack of education or experience outside of Vermilion Bay Sweet model<sup>5</sup>) was identified as being an Requires more work to run direct to market business-Labor jobs such as welding were identified as possible shrimping, and language barriers can be prohibitive. effective way to accomplish direct sales. Programs to assist permits, transport, time, effort, etc. options within those industries. Training programs might Local industries, like oil and gas, may not be a good option help fishermen gain access to these local industry jobs. Stop because they are dwindling or have too restrictive hiring in training, equipment, and marketing could increase access May need to process the products to achieve greater eating shrimp (must spend more on groceries), may grow processes markets by peeling, deveining, or packaging/preserving to these models. Undesirable changes to quality of life including loss of vegetables to supplement groceries. Create market for smaller shrimp which currently receive which requires buying equipment and compliance with shrimping culture, subsistence food, and other losses of personal freedoms such as not being as autonomous. almost cost-prohibitive dockside prices. Board of Health regulations Issues with no prior experience, socioeconomics, and unde-Relocate to a region with more job options. Assistance for Time spent selling shrimp is lost time for catching shrimp; Consumer education on superior product handling and finding new place to live and work could facilitate. sirable changes to quality of life (similar to the above cell) quality could increase demand. need more employees to offset this which cost money and In one group discussion, a participant stated, "move me may be exacerbated by a relocation. requires additional responsibility. some place where I'm safer (from storms/flooding) and Some shrimping communities speak English as a second have security of a job paying \$15/hr" would make her language, so there could be language barrier issues. content Take steps to address pricing control by docks. Incentivizing Historical attempts for shrimpers to open cooperatives Sell boat and house. Buyout program to assist in fair-value Might not be able to sell boat and house (especially if a more docks and processors to be open, increasing have faced insurmountable state/political opposition from liquidation of these assets. May require political will and decrease in demand after diversions.) Creating a fair buyout leadership program likely difficult since large variation between people current dock owners. This requires considerable startup competition. Set up a dock or processing cooperative. who haven't invested much compared to those who have capital. been shrimping a long time. Some perceived buyouts as unfair because it will wipe out supporting community. Provide assistance with accessing Social Services such as: Not desirable to receive "handouts" and prefer a way to Change management policy for shrimp fishery to restrict supplemented income or welfare. continue working. Reclassifying shrimpers as farmers/harvesters so that they Social services were perceived as being difficult to qualify harvest time to periods vielding larger, more marketable can fit under Department of Agriculture and receive farm for and to navigate bureaucratic processes. sized shrimp. bill benefits may provide assistance. May be economically infeasible for government. Go back to school. Less desirable for older people. College is expensive and risky



**Find Alternative Income** 

## SHRIMPING WITH DIVERSIONS

### Adaptation Category: Catch More Shrimp

	Strategies And Avenues To Accomplish Adaptation	Obstacles To The Avenue
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•	Work more hours/days per trip (increase fishing effort).	<ul> <li>More time working places burden on business, family and overall quality of life.</li> </ul>



### **Our Findings**

1. <u>There is a wide range of vulnerability</u> <u>and resilience amongst shrimpers</u>

Defined by:

- a. Way of operating business
- b. Socioeconomic status
- 2. <u>Some shrimpers may not be able to</u> <u>continue their current way of</u> <u>shrimping; assistance can facilitate</u> <u>transition</u>

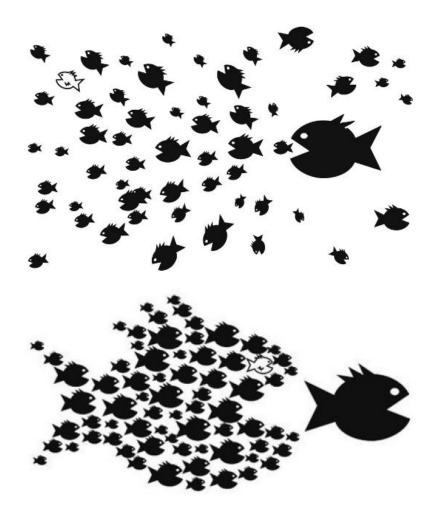
### 3. There are solutions!

Shrimpers have lots of ideas about potential avenues to adaptation:

- a. Individual efforts (adjustments to business operations)
- b. Organizational efforts (systemic adjustments)

# Shrimping in Louisiana: Supporting Innovation in the Face of Coastal Change

- Shared, collective action offers best path forward
   Includes industry, management, restoration
   scientist & managers, environmentalists, etc.
- A common, base-level understanding of shrimp, shrimping, and shrimpers
  - management to biology to economics to TEK and culture
- o Recommendations:
  - o Data collection
  - o Communication
  - o Assistance



# Conclusions

- Shrimping and shrimpers fac There are Significant challengesrebuthtere comunication Need clearly defined roles an collaboration and collective this is a de walic, nor leveraged to assist in the tran can overcome these conflicts!





# Thank you!



# Questions?