



Coastal Protection and  
Restoration Authority of Louisiana

# CPRA Basinwide Socio- Economic Analysis

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committed to our coast

# Collaborators

## *Basin-Wide Analysis*



## *Economic Study*

## *Coastal Atlas*

## *Commercial Fisheries Study*



THE WATER INSTITUTE  
OF THE GULF



## *Diversion Modeling*



Experience | Innovation | Results

# Basinwide Socio-Economic Analysis

## Scope of Work

- Earth Economics & Royal will assist CPRA in assessing the impacts of proposed diversion projects and translating the social and economic outcomes of a future without action and a future with the 4 diversion projects
- Scope of work is from November 2014 – November 2015
  - Task 1 – Review literature and determine any data gaps
  - Task 2 – Develop a framework/methodology on which to conduct the analysis
  - Task 3 – Validate the socio-economic analysis methods with 1-2 past diversions
    - Perform socio-economic analysis of all four of the diversions



# Basinwide Socio-Economic Analysis Literature Review

<b>Biophysical Impacts</b>
Carbon sequestration/ storage
Fisheries
Flood risk reduction
Habitat
Navigation
Nutrients
Salinity
Sediment
Storm buffering
Water supply

<b>Social Impacts</b>
Agriculture
Built infrastructure
Cultural Impacts
Fisheries
Navigation
Recreation and tourism
Community
Displacement

<b>Economic Impacts</b>
Agriculture
Built infrastructure
Carbon sequestration and storage
Cultural Impacts
Fisheries
Flood risk reduction
Habitat
Navigation
Recreation and tourism
Storm buffering
Water supply
Workforce Development

# Basinwide Socio-Economic Analysis

## Scope of Work

Earth Economics & Royal Engineers will analyze the following model output data from multiple hydrodynamic/sediment-transport models and ecological/fisheries models:

- Water Level
- Water Velocity
- Water Temperature
- Salinity
- Nutrient/Pollutant Concentration
- Sediment Concentration
- Elevation Change
- Vegetation Type/Density
- Organic Matter
- Relative distribution and abundance of fish biomass

# Basinwide Socio-Economic Analysis

## Scope of Work

- Draft and Final Paper which describes the historic and current socio-economic conditions of the 3 basins. This will include community population, employment, and demographic trends; past diversions and restoration projects; land loss and hurricane impacts; socio-economic drivers and fisheries distribution.
- Illustrations and descriptions of the 4 diversions cause & effect dynamics on the health and economic vitality of communities, using 21 categories of socio-economic indicators including fisheries, flood risk reduction, storm surge risk reduction, aesthetic value, and recreational value.
- Include maps, graphs, charts and animations to describe the analysis outcomes and illustrate change over time.

# Socio-Economic Analysis Next Steps

- **Where we've been:** Literature review, synopsis of existing data gaps, and initial data collection has been completed.
- **Where we are:** Draft model output data is being analyzed by the project team to determine the appropriate bio-physical linkages to the socio-economic analysis. The team is currently coordinating with Modeling Teams and reviewing output data templates and formats for incorporation into the analysis.
- **What's next:** A draft framework for the analysis will be recommended which will outline the methodology for assessing socio-economic impacts of diversion activities.

**THANK YOU**