

# CREVASSE:

## COASTAL RESILIENCE THROUGH EFFECTIVE VERSATILE ADAPTATION AND SEDIMENT STRATEGIES FOR SEA-LEVEL RISE ENGAGEMENT



Harnessing the river to create and maintain the wetlands that nourish and protect communities in the Mississippi River Delta while ensuring that the same river meets the needs of navigation, water supply, and flood protection is an exceptionally challenging task. The use of crevasses, small cuts in the channel bank through which water and sediment can flow from the river into the surrounding wetlands, have become a vital yet inexpensive restoration tool to address this challenge.

### FINDING RESTORATION SOLUTIONS FOR A COMPLEX RIVER SYSTEM THROUGH COLLABORATION.

The Coastal Resilience through Effective Versatile Adaptation and Sediment Strategies for Sea-Level Rise Engagement (CREVASSE) incubator will provide engineered and designed options for crevasse restoration projects that are ready for implementation, as well as guidance for those seeking to adaptively manage crevasse restoration projects within the Mississippi River Delta. It will also provide a lasting forum for crevasse management innovation and workforce development.

### PROJECT GOALS

- Shared understanding of the factors that influence crevasse success from the perspective of river science, community, and management decision-making
- Updated science of delta geomorphology that incorporates flow and sediment pathways in river deltas that are intentionally influenced by human actions
- Enable innovation and workforce development to produce practitioners in the local community that can design and monitor crevasses as well as balance the environmental and economic interests surrounding this restoration tool

### QUESTIONS?

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### PROJECT PARTNERS



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