

MIAMI-DADE BACK BAY COASTAL STORM RISK MANAGEMENT Feasibility Study

February 10, 2023

*Biscayne Bay Watershed Management
Advisory Board Meeting*

Jim Murley

Chief Resilience Officer
Miami-Dade County

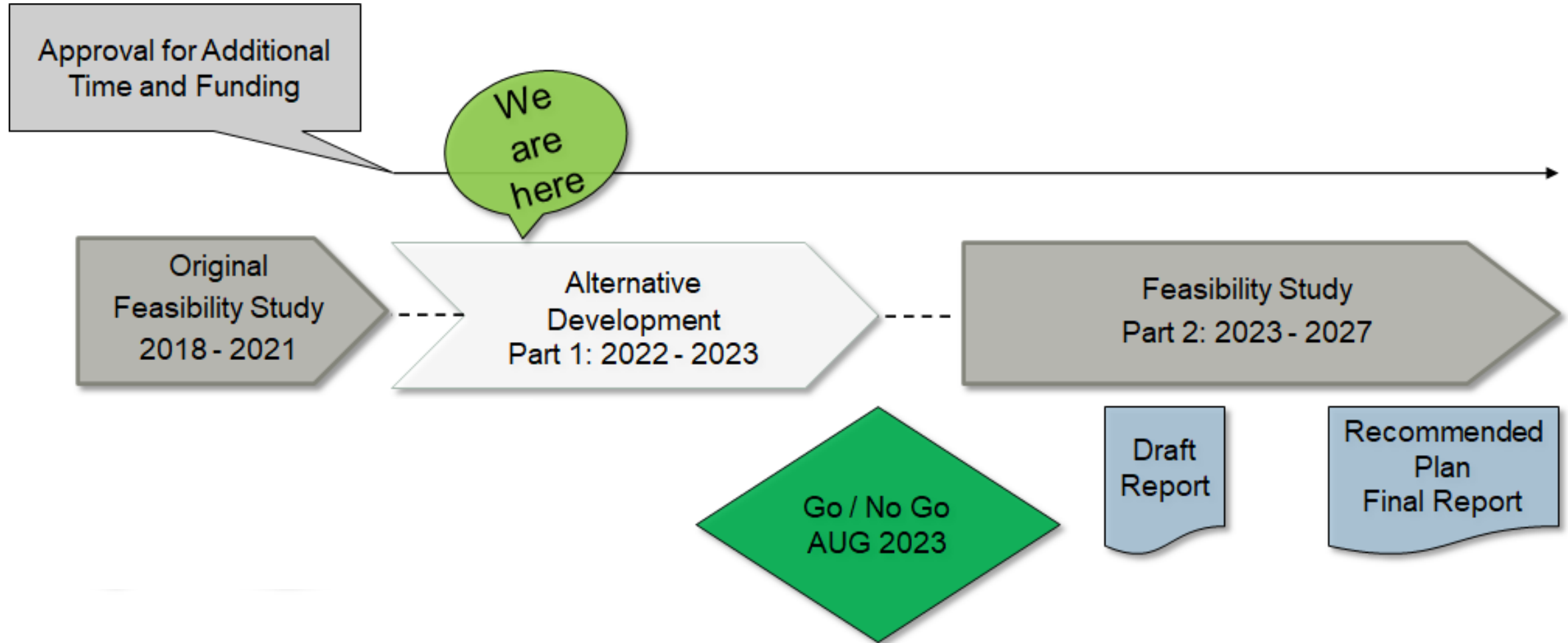


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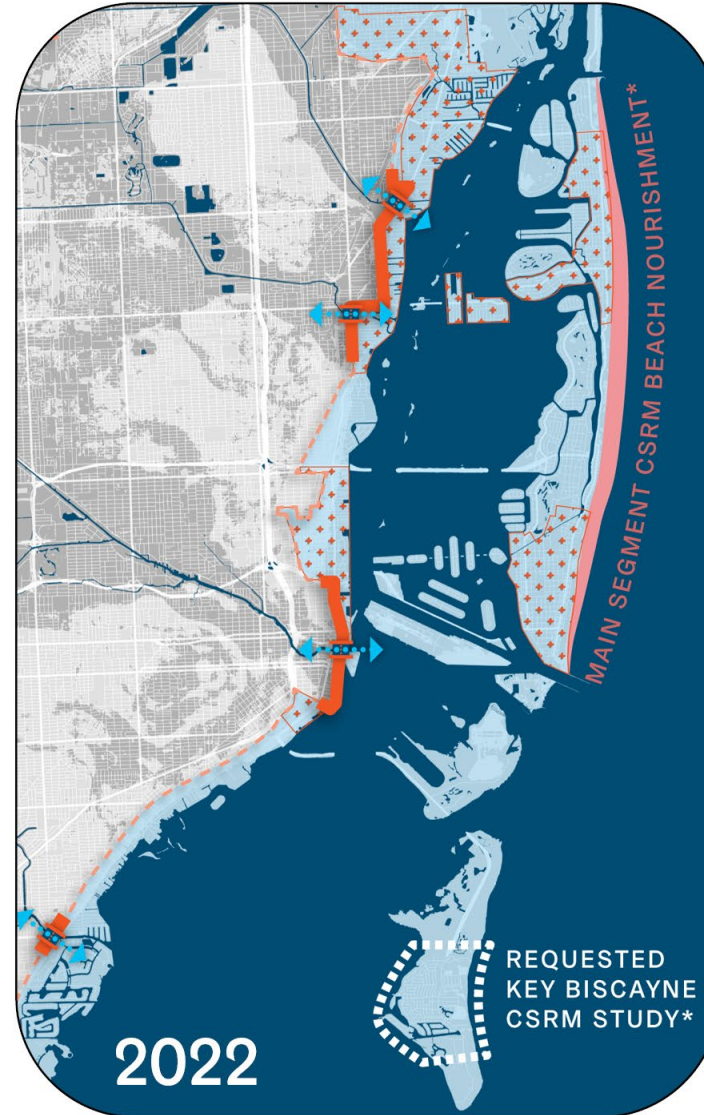
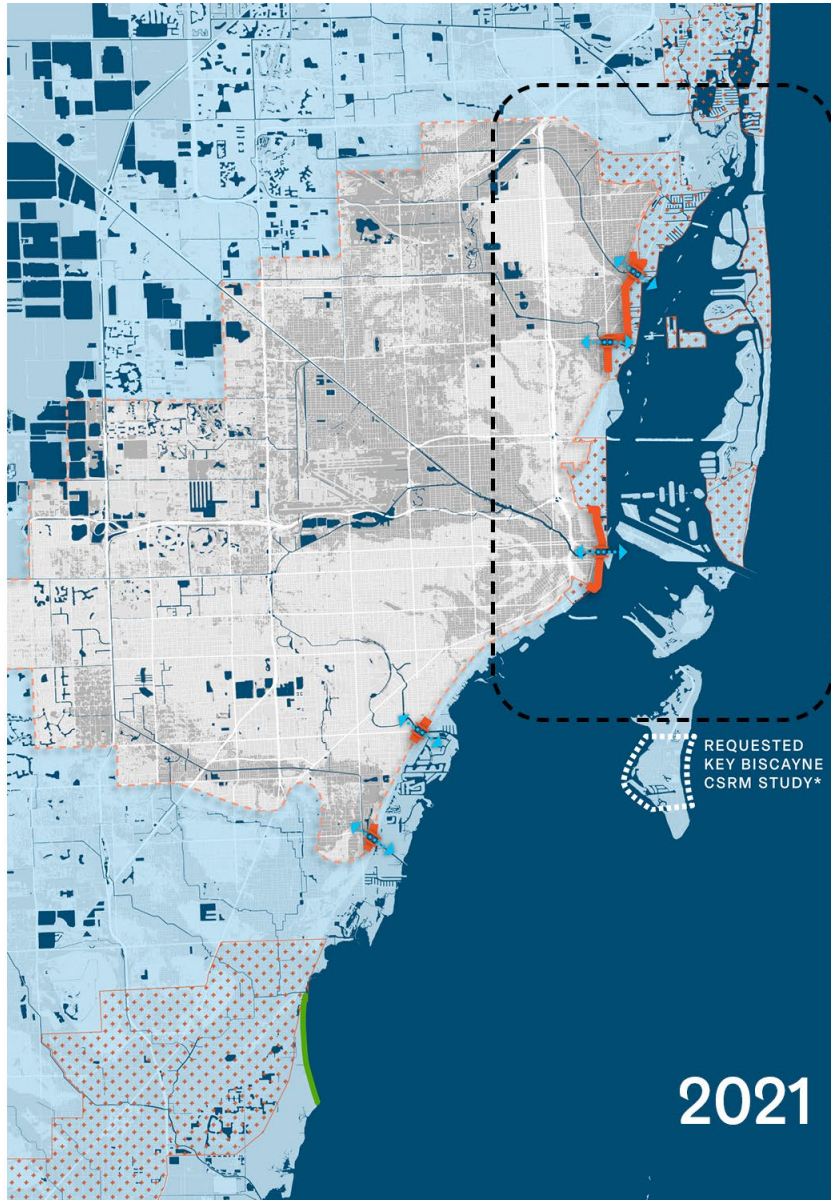
<https://www.saj.usace.army.mil/MiamiDadeBackBayCSRMFfeasibilityStudy/>

Miami-Dade 'Back Bay' Study Timeline



USACE 2021/22 Alternative

Not supported by Miami-Dade County



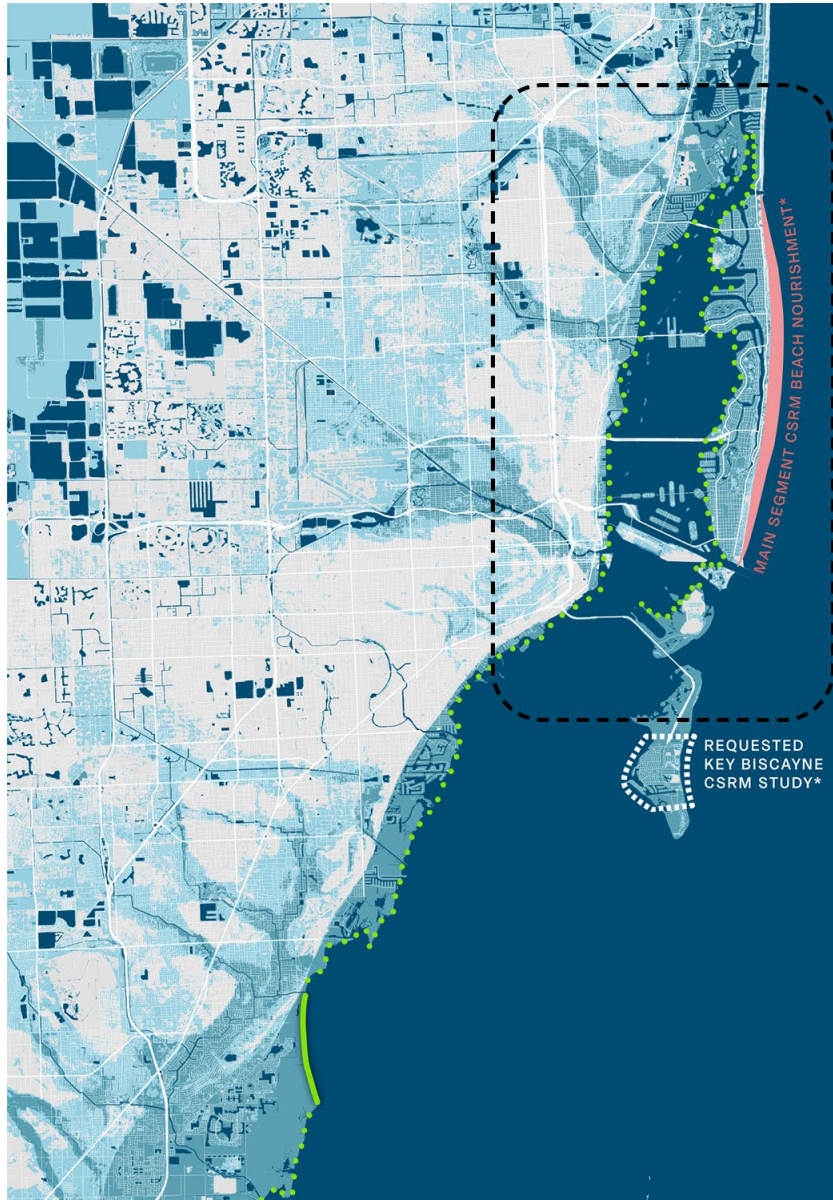
LEGEND

- USACE Alignment
- Gates or Control Structures
- Outside of Alignment
- Non-Structural Measures
- Proposed Nature Based Solutions
- Miami-Dade County, Florida Main Segment Coastal Storm Risk Management Final Integrated Feasibility Report And Environmental Assessment

*Not included in the Miami-Dade County Back Bay CSRM Study



Proposed Non-Structural Alternative

Elevation and Floodproofing



LEGEND

Flood Depth (SACS Data)
200 Year Storm + 2.98 ft
Sea Level Rise by 2120

 Shallower than 3 ft
 Deeper than 3 ft

 Non-Structural Measures

 Proposed Nature Based Solutions

 Possible Nature Based Solutions

 Miami-Dade County, Florida Main Segment Coastal Storm Risk Management Final Integrated Feasibility Report And Environmental Assessment

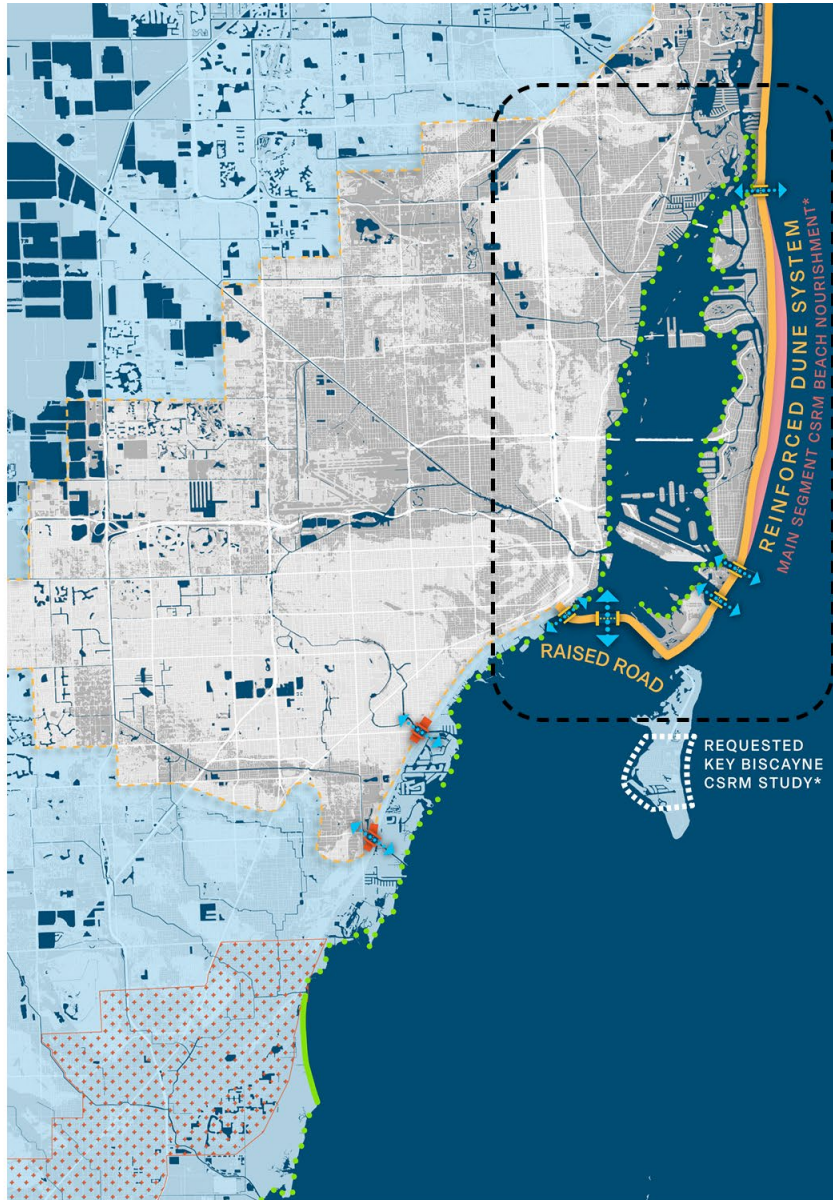
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Proposed Atlantic Coastline Alternative









Illustrative concepts inclusive of November 2022 Charrette and January 2023 Meetings



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LEGEND

-  Atlantic Alignment
 -  Navigation Gates / Control Structures
 -  Outside of Alignment
 -  Navigation Gates / Control Structures
 -  Non-Structural Measures
 -  Proposed Nature Based Solutions
 -  Possible Nature Based Solutions
 -  Miami-Dade County, Florida Main Segment Coastal Storm Risk Management Final Integrated Feasibility Report And Environmental Assessment
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Proposed Atlantic Coastline Alternative

Illustrative concepts inclusive of November 2022 Charrette and January 2023 Meetings



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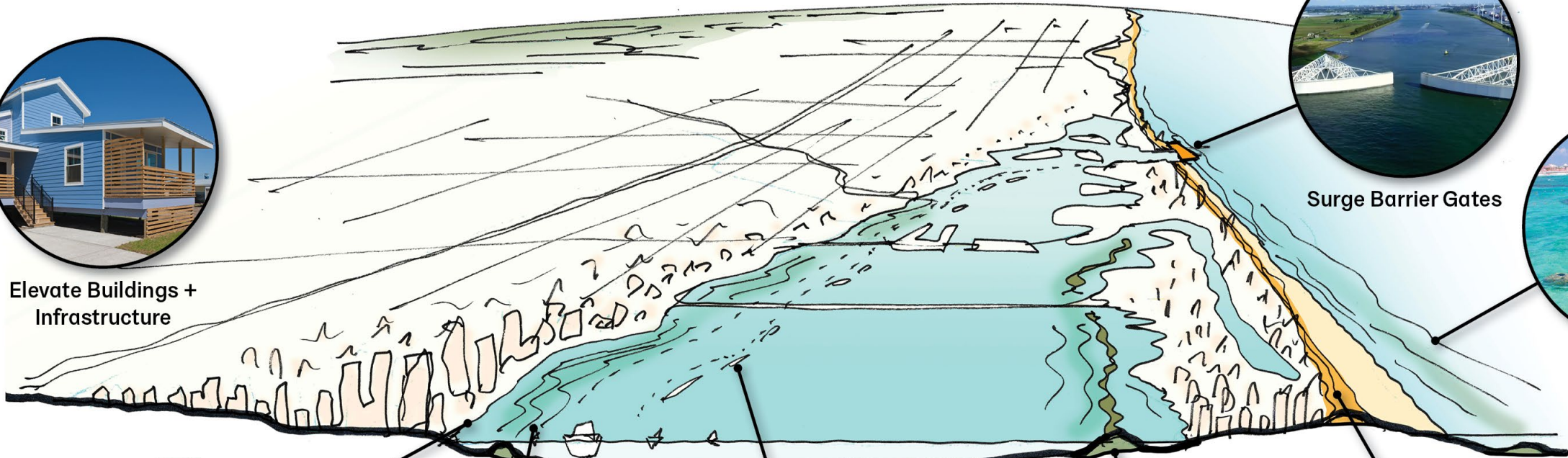
Elevate Buildings + Infrastructure



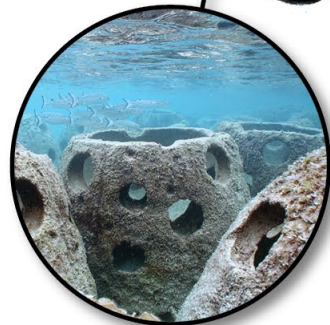
Surge Barrier Gates



Artificial Reef



SLR Adapted Sea Walls + Living Shoreline



Submerged Breakwater



Enhanced Islands



Mangroves



Reinforced Dune System

Upcoming Public Engagement Opportunities



Virtual Public Meeting
Thursday
February 23rd | 5:00pm
RSVP: <https://bit.ly/40GsKkN>



Charrette #2
Wednesday - Friday
March 1st-3rd | All-day
Location: PortMiami (Details TBD)



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