Agenda

• 9:30 – 9:45  Welcome & Introductions
• 9:45 – 10:15 What is Beach Preservation?
• 10:15 – 10:45 Shoreline Stabilization – OCRM Perspective
• 10:45 – 11:00 BREAK
• 11:00 – 12:00 Best Practices: Process Pathways
• 12:00 – 12:45 LUNCH
• 12:45 – 1:15 Breakout: Process Pathways
• 1:15 – 1:30 Wrap up + Next Steps
TAC Charge & Expected Outcomes

**Examine**

Examine research and information

- Shoreline Stabilization
- Beach Nourishment
- Dune Restoration
- Land Management

**Evaluate**

Evaluate existing and alternative shoreline policies

- Current state statutes and regulations

**Inform**

Inform the SC Beach Preservation Committee

- Final Report summarizing:
  - Discussion and deliberation
  - Policy options for consideration
In 2018, the South Carolina Beachfront Management Act (Act) was amended, and a new policy of beach preservation was adopted. In light of this change and the increasingly complex challenges faced by local and state governments, there is a need to evaluate current and future beachfront management tools.
SC Beach Preservation Process

Step 01: Technical Advisory Committee

Step 02: Research, Evaluate, Inform

Step 03: Final Report to Beach Preservation Committee

Step 04: Beach Preservation Committee Meetings

Step 05: Final Recommendations
TAC Timeline

- **TAC Kickoff Meeting** (October 2021)
- **Beach Nourishment** (February 2022)
- **Shoreline Stabilization** (December 2021)
- **Land Management** (March 2022)
- **Final Info Gathering** (April 2022)
- **Draft Report** (May 2022)
- **Final Report** (May 2022)
What is Beach Preservation?
What is Beach Preservation?

**Maintaining** the current state or status quo

**Preserving** natural functions

**Pro-actively** maintaining the functionality of the beach/dune system

**Protecting** and **enhancing** natural beach processes

**Balancing** habitat and environmental concerns with current development

**Protecting** the highly dynamic ecological processes and functions that shape, form and maintain the beach, dunes and nearshore habitat.
Shoreline Stabilization

OCRM Perspective
Shoreline Stabilization

**Long term:**
- Nourishment
- Nourishment and Groins
- Offshore Breakwater

**General Permits**

**Short term:**
Emergency Orders
- minor renourishment
- sand scraping
- sand bags
- other technology, methodology or structure
Nourishment
Nourishment
Nourishment with Groins
Offshore Breakwaters

https://gis.dhec.sc.gov/renourishment/
General permits
Emergency Orders
(C) ....the Office of Ocean and Coastal Resource Management, may allow the use in a pilot project of any technology, methodology, or structure, whether or not referenced in this chapter, if it is reasonably anticipated that the use will be successful in addressing an erosional issue in a beach or dune area.
Proviso 34.44 Wave Dissipation Device

• The deployment of a qualified wave dissipation device seaward of the setback line or baseline pursuant to a study conducted by the Citadel or a research university is not construction and meets the permitting exception contained in Section 48-39-130(D)(2).
A qualified wave dissipation device is a device that:

• (1) is placed mostly parallel to the shoreline;
• (2) is designed to dissipate wave energy;
• (3) is designed to minimize scouring seaward of and adjacent to the device by permitting sand to move landward and seaward through the device;
• (4) the horizontal panels designed to dissipate wave energy can be deployed within one-hundred twenty hours or less and can be removed within one-hundred twenty hours or less;
• (5) does not negatively impact or inhibit sea turtle nesting or other fauna;
• (6) can be adjusted after initial deployment in response to fluctuations in beach elevations; and
• (7) otherwise prevents down-coast erosion, protects property, and limits negative impacts to public safety and welfare, beach access, and the health of the beach dune system.
Lessons Learned and Challenges

• The need for robust and sound scientific methodology to study new technologies.
  • The state spent nearly $100,000 in order to thoroughly study the proposed technology.

• Pay close attention to any potential impacts to threatened or endangered species, as well as native flora/fauna.
  • The state was sued for violation of the Endangered Species Act.
  • The state spent approximately $17,000 on legal fees.

• The need for a removal process of the proposed technology once the study is complete.
  • The state paid to remove the pilot structures on Harbor Island.
Lessons Learned and Challenges here

• Ensure that public access is maintained.
  • At some locations, there was no public access along the beach for large portions of the tidal cycle.

• Be aware of future activities on the beach that may be impacted by or impact the study and technology.
  • Future renourishment or sand scraping could be affected.

• Consider potential impacts to adjacent properties.

• Ensure that the technology isn’t having a negative effect on the beach; if it does, have a process to address it.
Short Break
What’s Working Well
• Processes
• Approaches
• Best Practices

Challenges & Hurdles
• Current Challenges with the Process

How can OCRM be more efficient, effective & flexible in considering and evaluating new technologies for shoreline stabilization?
Lunch
Process Pathways & Approaches

- **Current Process / Approach**
  - If there is a *new* technology, could current best practices or processes be used to evaluate what is most appropriate?

- **Modified or New Process**
  - Do existing pathways need to be modified or new ones (ie, ad hoc advisory panel) need to be created?
Next Steps

• **Meeting Summary**
  - A high-level summary of the meeting (presentation slides, decision points and takeaways) will be provided within the next 2 weeks

• **Next Meeting**
  - Opportunity to further discussions from today
  - Identify and Discuss Study Parameters
    - Minimum requirements, establishing controls, thresholds, evaluating impacts, etc.
  - January 2022

• **Provide Your Feedback**
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Final Report
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Thank You