

DRAFT

Appendix B
Information Regarding March 2022
Meeting

DRAFT

Meeting 2 Invite List

Organization	Name	Email
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OC Bike Coalition	Pete Van Nuys	petevannuys@cox.net
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San Clemente Beaches, Park and Recreation Commission	Jorine Campopiano	aspensorine@msn.com
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	Chris Newton	--
	Rick Erkeneff	--
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USGS	Sean Vitousek	svitousek@usgs.gov

Notes:
 Caltrans: California Department of Transportation
 HOA: homeowner association
 OC: Orange County
 OCPW: Orange County Public Works
 OCTA: Orange County Transportation Authority
 SCAG: Southern California Association of Governments
 USGS: U.S. Geological Survey

South Orange County Regional Coastal Resilience Strategic Plan

March 21, 2022



Grant Overview

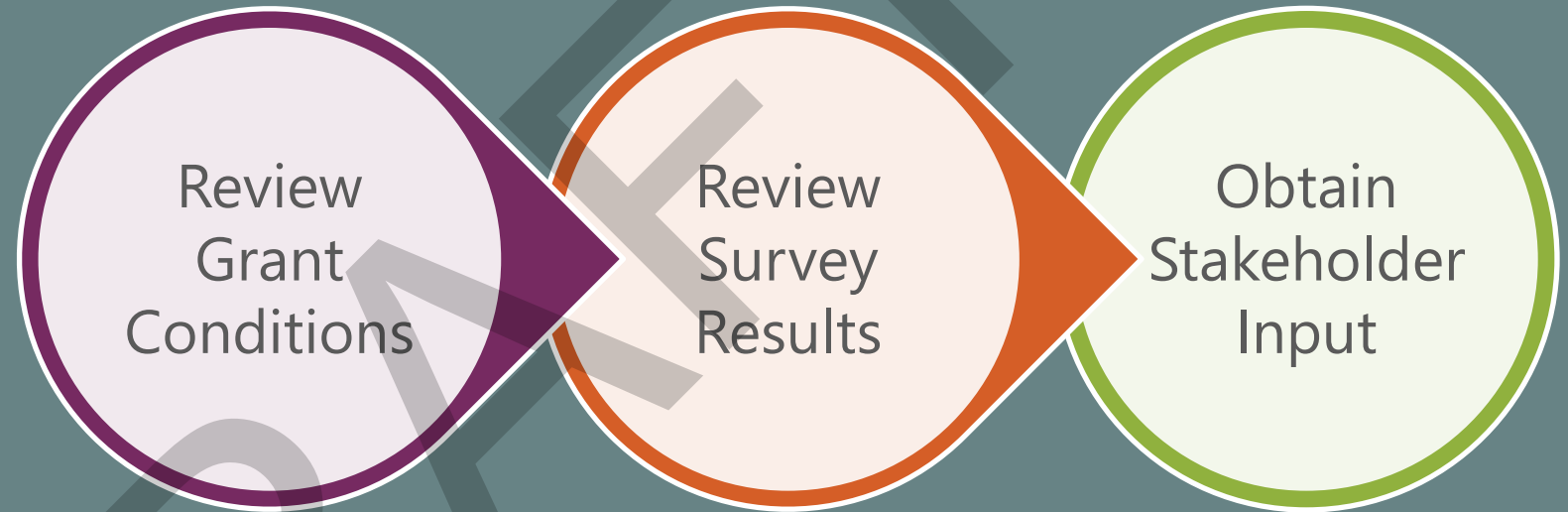
- **Goal:** Develop a regional, collaborative strategic plan to facilitate implementation of regional shoreline management activities to address chronically eroding shorelines in southern Orange County
- **Main objective:** Assess, prioritize, and advance resilience opportunities to reduce the risk to residents and to increase the viability of south Orange County beaches



Scope of Work and Stakeholder Engagement Review

In Progress

- Evaluate Existing Data
- Stakeholder Meetings



Up Next

- Cost Estimates, Economic Analysis, Funding, and Prioritization
- Develop Draft Plan
- Final Plan and Draft Cooperative Agreements

Meeting Objectives

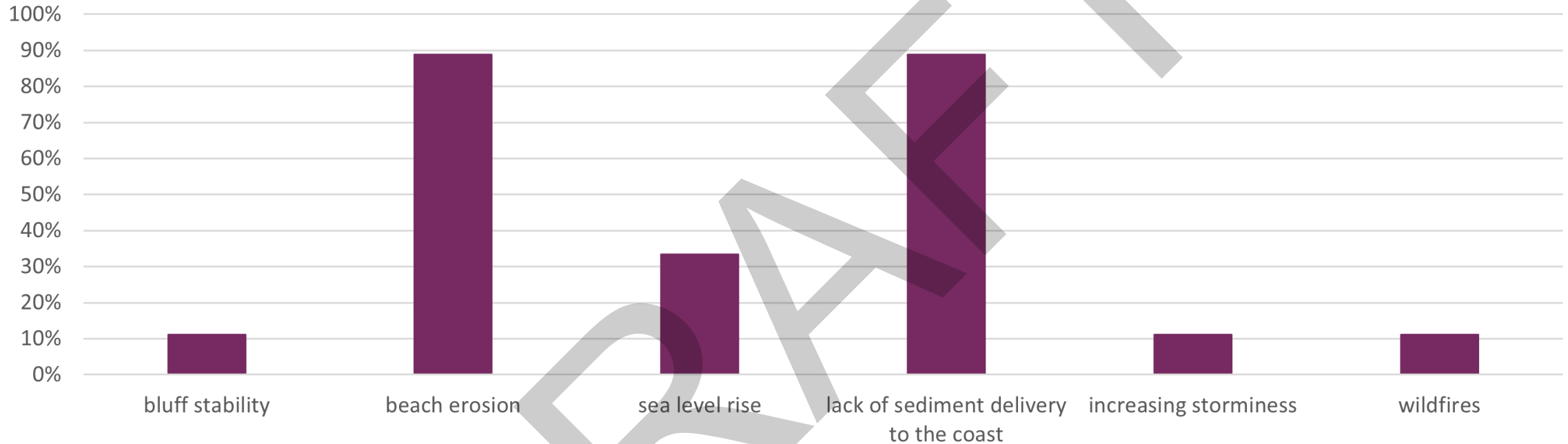


- Comply with grant conditions (e.g., Stakeholder engagement meeting)
- Overview of project development process
- Present results of stakeholder engagement surveys
- Solicit stakeholder input on erosion causes, problem area, governance, and additional stakeholders

Survey Results Summary



Current and Historical Threats



- Top threats identified by the stakeholders:
 - **Beach erosion** (88.9%)
 - **Lack of sediment delivery to the coast** (88.9%)

* Percentages are based on n=9



Causes of Current and Historical Threats

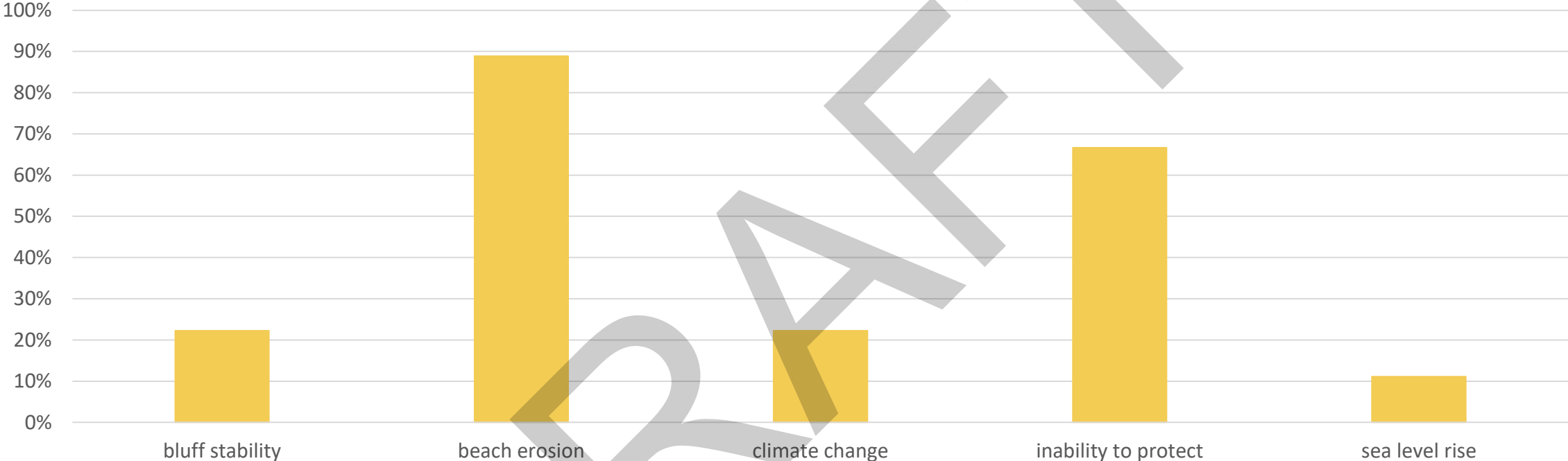


- Top cause identified by the stakeholders:
 - **Reduction of sediment delivery to the coast** (100% of stakeholders)

* Percentages are based on n=9



Future Threats



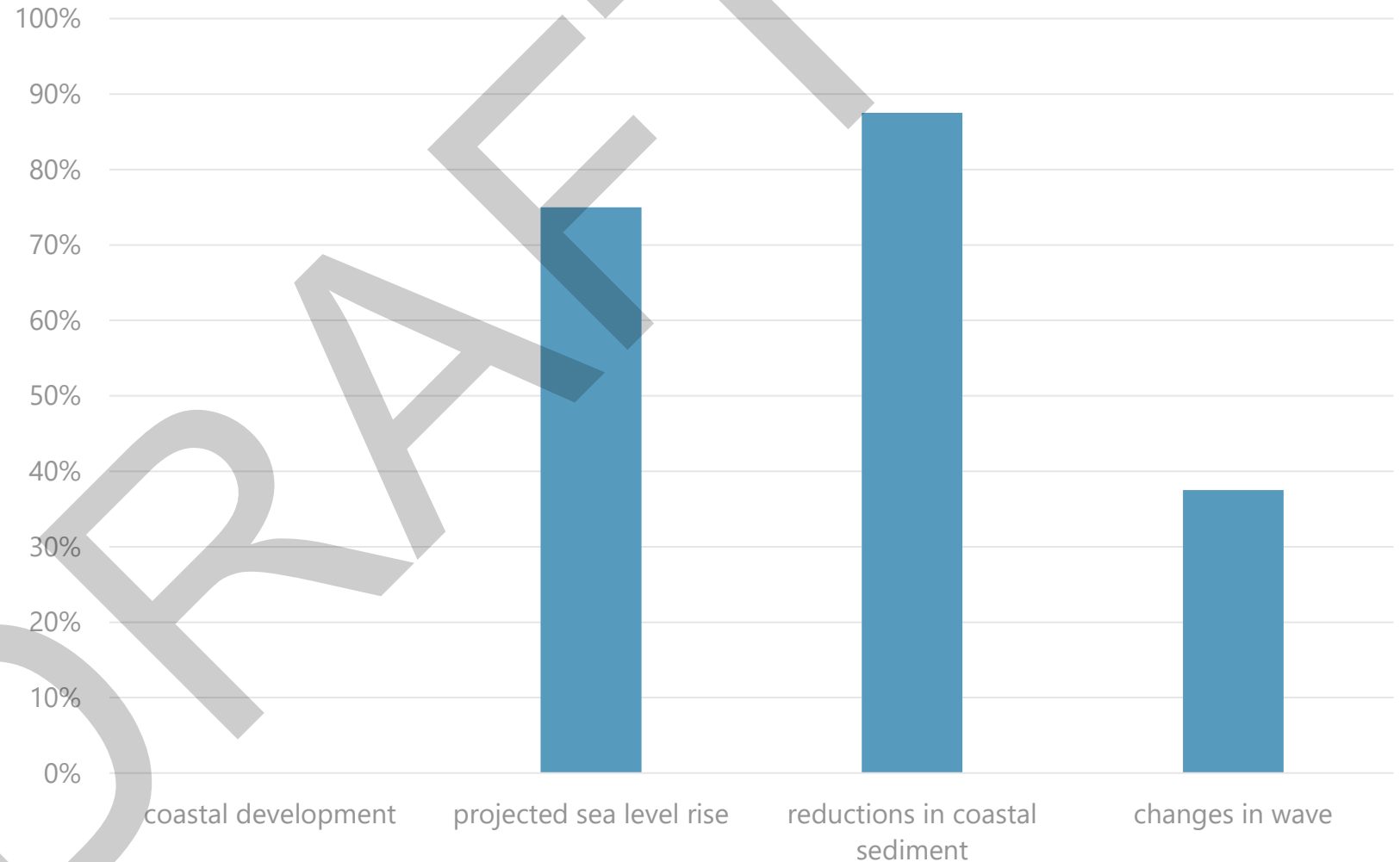
- Top threats identified by the stakeholders:
 - **Beach erosion** (88.9%* of stakeholders)
 - **Inability to protect** (66.7%* of stakeholders)

* Percentages are based on n=9



Causes of Future Threats

- Top threats identified by the stakeholders:
 - **Projected sea level rise** (77.8%* of stakeholders)
 - **Reductions in coastal sediment** (88.9%* of stakeholders)

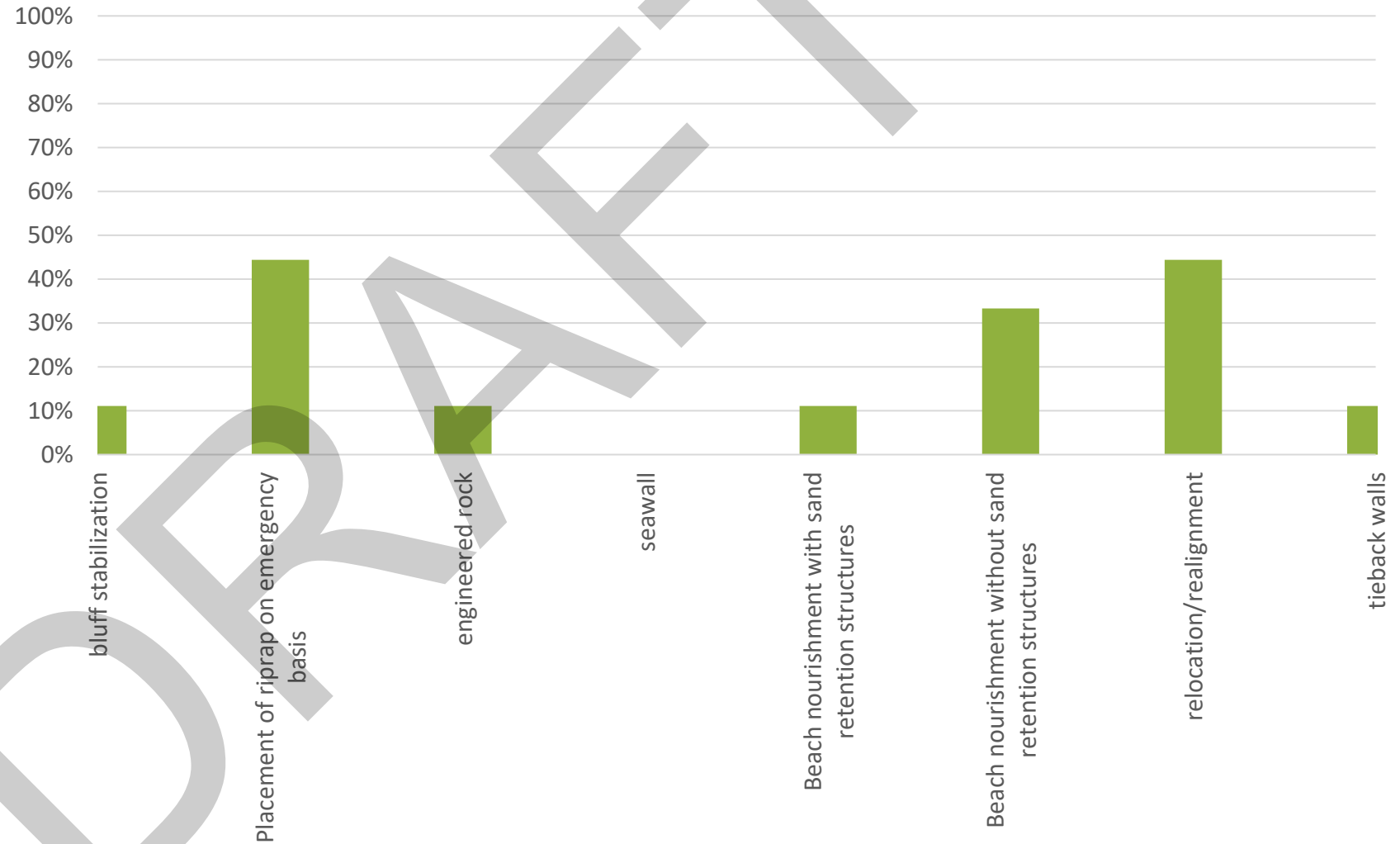


* Percentages are based on n=9



Remedial Measures

- Top measures identified to address these threats:
 - **Placement of riprap** (44.4% of stakeholders)
 - **Relocation and realignment** (44.4%)* of stakeholders)

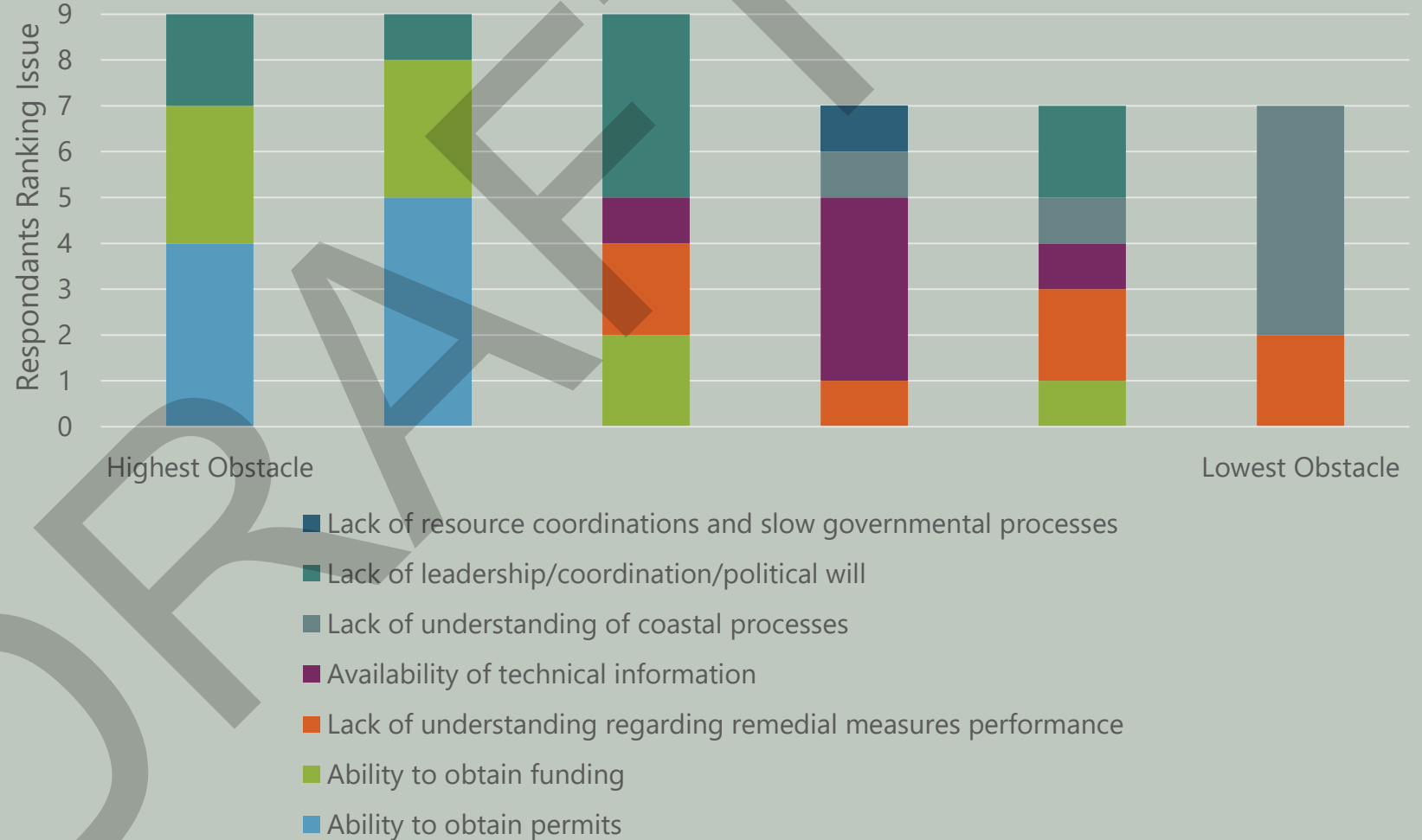


* Percentages are based on n=9



Obstacles Most Cited by Stakeholders

- Top obstacles to implementing sea level rise adaptation measures:
 1. **Ability to obtain permits**
 2. **Ability to obtain funding**
 3. **Lack of leadership/coordination/political will**



*Percentages are based on n=9

**City of Dana Point and Capo Bay District only ranked top 3 obstacles



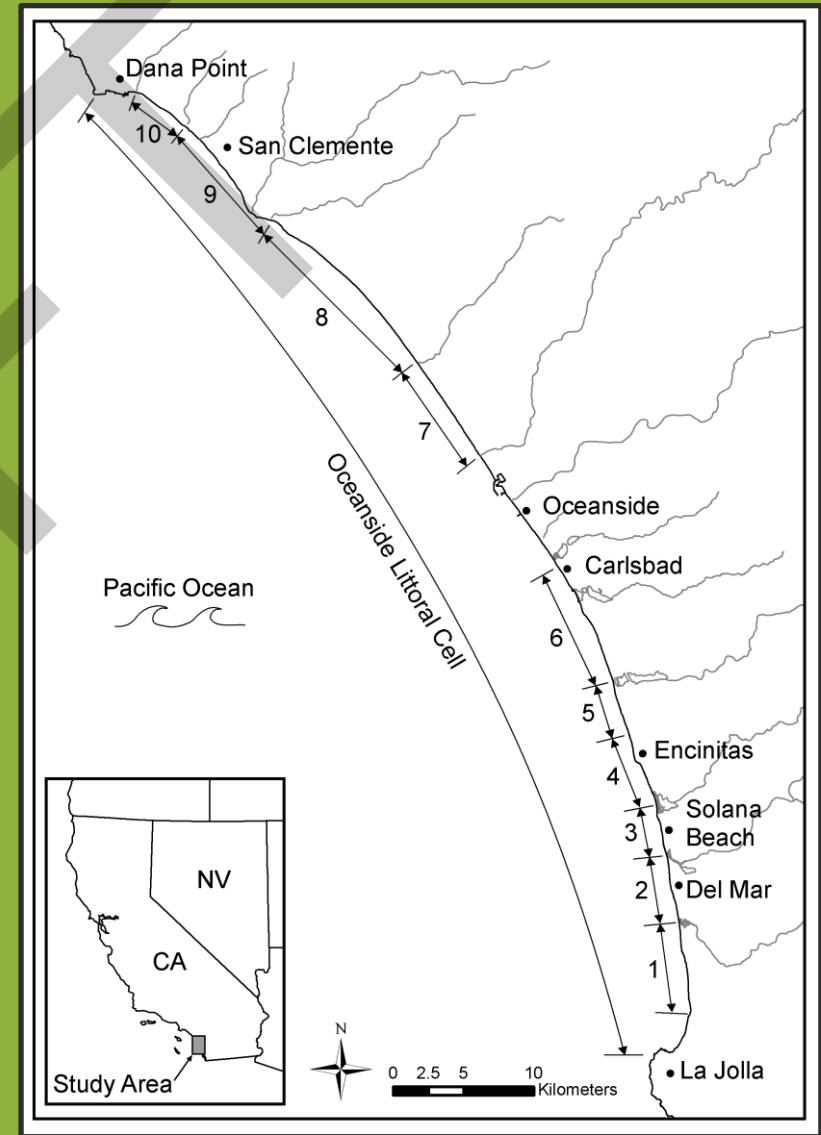
Survey Responses with Zero Selections

- **No respondents** identified:
 - **Changes in wave height, frequency, and direction** as a top cause of current/historical threats to property or assets
 - **Coastal development** as a top cause of future threats to property or assets
 - **Seawall** as a remedial measure to address the threats to property or asset

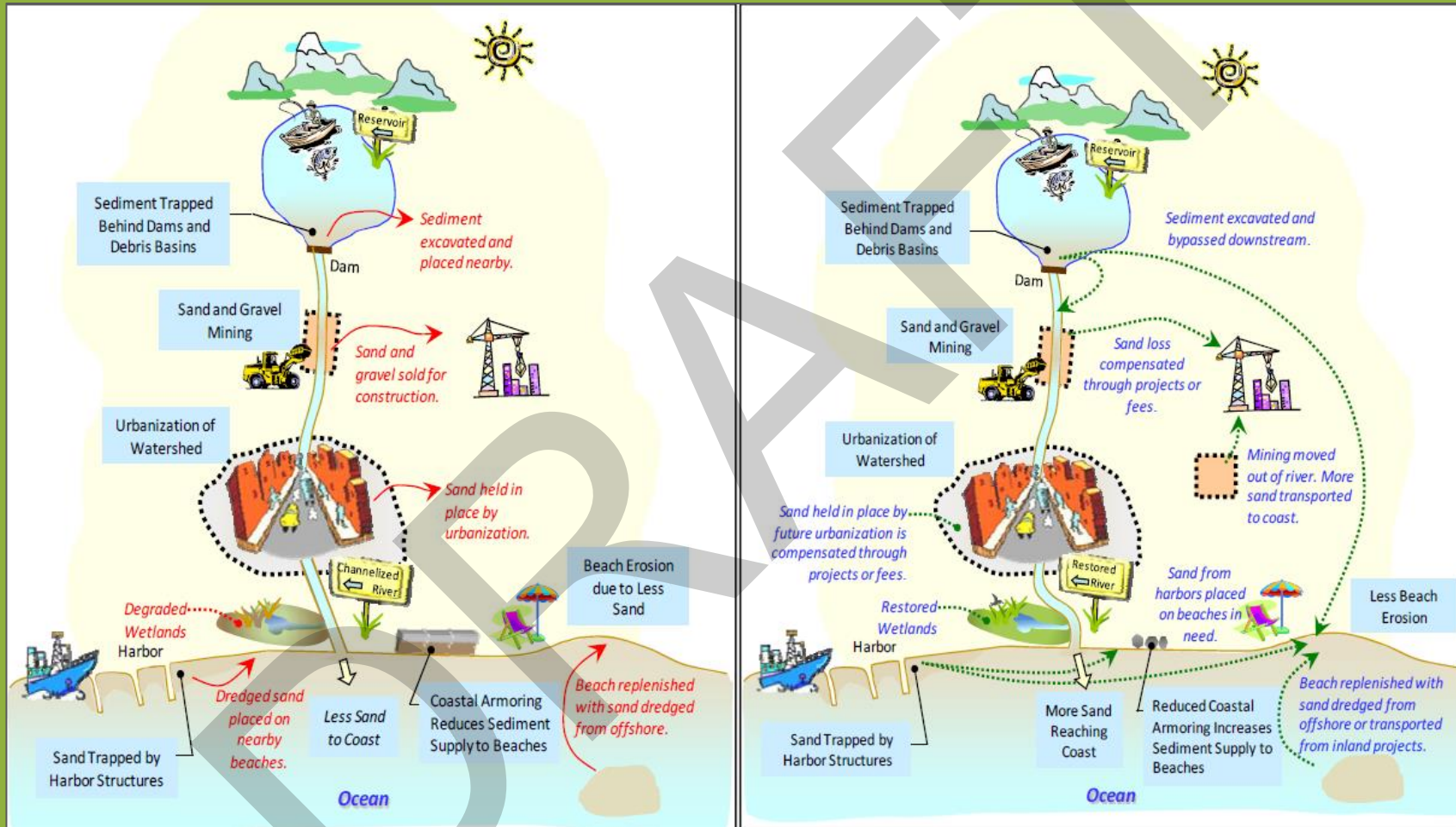


Causes of Erosion

- Natural Factors
- Human Factors



Sediment Management



Coastal Area Delineations and Problem Areas



LEGEND:

- State
- County
- City
- Private
- Metrolink

Regional Beach Erosion



- Beach erosion across entire littoral cell
 - Excludes Dana Point Harbor
- Waves reach:
 - Metrolink track
 - Residential development
- System-wide beach narrowing
- Requires system-wide approach to address



Doheny State Beach

- Beach Erosion
 - Loss of beach width
 - Loss of sand increasing exposed cobble
- Damage
 - Parking lots
 - Bike path
 - Palm trees
- Focused protective rock revetment



Capistrano Beach

- Beach erosion
- Infrastructure Damage
 - Boardwalk
 - Ball Court
 - Restroom
 - Parking Lot
 - Coastal Trail
 - Seawall



Capistrano Bay District

- Beach erosion
- Impacts to residential structures
- North extent access provided through Capistrano Beach
 - reliance on County maintaining Capistrano Beach
- Individual home protective structures vary



Shorecliffs Beach Club

- Impacts to structure
- Impaired Access



Capistrano Shores

- Beach erosion
- Impacts to residential structures



San Clemente Beaches

- Beach erosion up to railroad revetment or seawall
- Access tunnels eroded during high tides
- Metrolink shut-downs due to waves
 - Temporary protection by rock placement
 - Need to relocate or restore sediment
- Parking lot flooding at the San Clemente State Beach
- Pier exposed to high surf



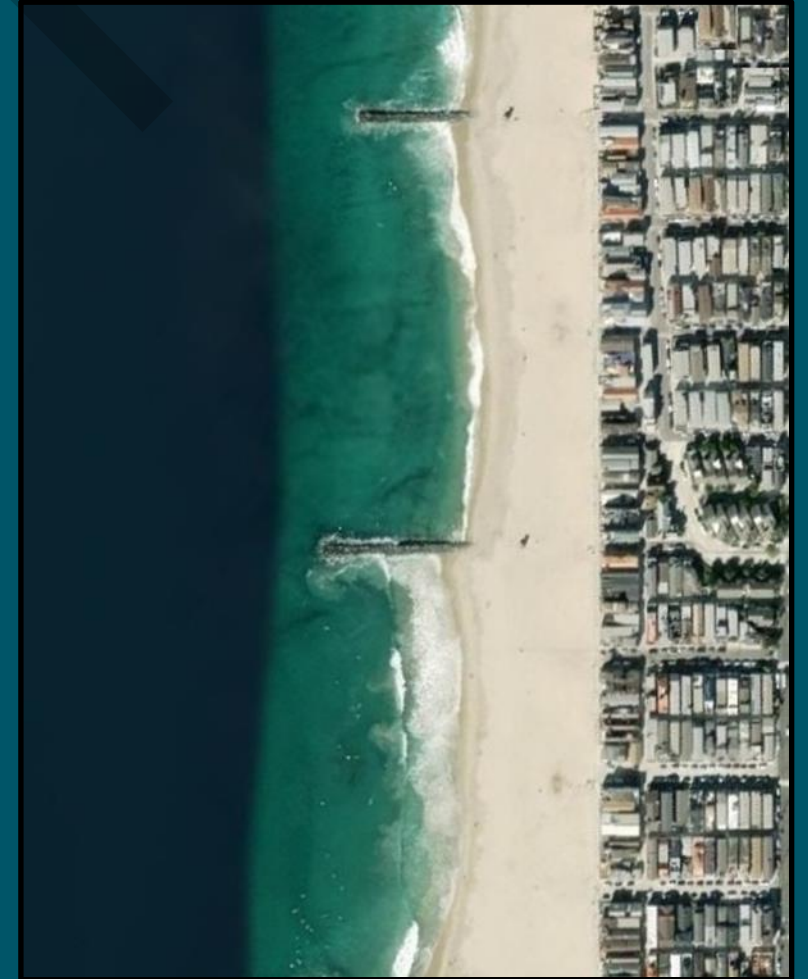
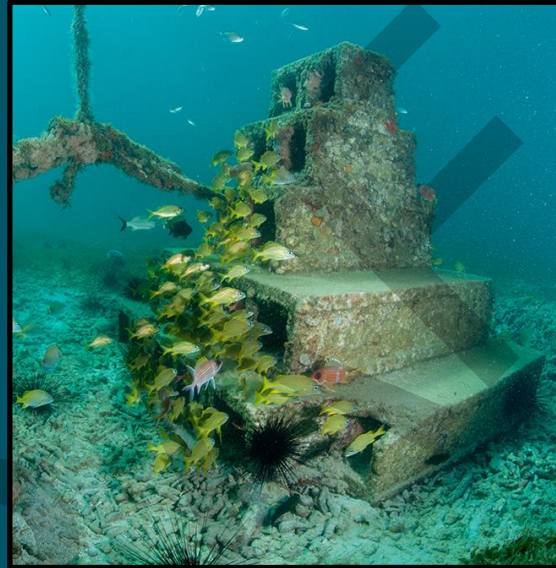
Cyprus Shores and Cotton Point



- Recent movement of the bluff has caused infrastructure damage
 - HOA parking lot
 - Roads
 - Utilities
- Residential property damage
 - Cracking in floors and ceilings
- Cracking and slope failure
 - Result of coastal erosion along tail of the bluff
 - Lack of sand on beach below believed to be the primary cause

Potential Solutions and Funding

- Beach nourishment without retention structures
- Beach nourishment with retention structures
- Offshore multipurpose reef
- Funding Sources
 - Federal
 - State
 - Local
 - Private



Governance Models

- Joint Powers Authority
 - SANDAG
 - BEACON
- GHAD
 - Broad Beach
- Cooperative Agreement
 - Dare County (North Carolina)
- Government Agency Led
 - South Orange County Watershed Management Area



Stakeholder Engagement Process

- Stakeholder group roles and responsibilities
- Big picture stakeholder engagement schedule



Next Steps and Discussion

March 21, 2022

- Stakeholder Meeting

Spring 2022

- Further outreach and engagement
- Analysis and research
- Draft agreement outlines

Summer 2022

- Stakeholder Meeting

Fall 2022 / Early 2023

- Draft plan development
- Further outreach and engagement

Spring 2023

- Final Plan Developed
- Stakeholder Meeting

