



# THE HAWAI'I OCEAN RESOURCES MANAGEMENT PLAN

----- 2020 -----

COLLABORATIVE COASTAL ZONE MANAGEMENT FROM MAUKA TO MAKAI

## ORMP Coordinated Working Group

May 18, 2023



OFFICE OF PLANNING &  
SUSTAINABLE DEVELOPMENT  
STATE OF HAWAI'I

hawai'i ocean resources management plan

# Agenda

- I. Welcome and Introductions
- II. CZM and ORMP Updates
- III. 2023 Legislative Session Wrap-up**
- IV. ORMP Project Updates
- V. Roundtable Updates & Announcements
- VI. Next Meeting Date
- VII. Adjourn & **Reconnect!**



The background of the slide features a repeating pattern of stylized, light brown illustrations on a white background. The illustrations include palm trees, flying birds (likely frigatebirds), and various types of fish, creating a tropical and marine theme.

# **Welcome**

# **Introductions**

# CZM and ORMP Updates

## **Update on OPSD Leadership**

## **Funding Opportunity Announcements**

- Project of Special Merit FY23 Submitted – DHHL Shoreline Rules Study
- Infrastructure Investment Jobs Act (IIJA/BIL) – anticipated LOI's due mid-July

## **ORMP Meeting Restructuring**

- Collaborate with State Climate Commission
- Event-driven meeting schedule

# 2023 Legislative Session Wrap-Up

## CZM-Tracked Bills

**SB1291/HB300** – appropriates funds to OPSD to develop a standardized process for State facilities to assess vulnerability to SLR (follow-up to Act 178, SLH 2021)

**SB 1417** – requires HCDA to consider the impacts of climate change and SLR in the design and siting of buildings in Kaka‘ako and Kalaeloa

**HB365** – expands list of exclusions from the definition of “development” as it applies to SMA

## Bills tracked by ORMP Partners

OCCL: **HB1091, SB1391**

DAR: **HB819, HCR80, SCR113**



# Project Updates





# Focus Area 1: Coastal Hazards





# A Guide to Coastal Adaptation Strategies Suitable for Hawaii's Coastlines

**Status:** Completed; StoryMap & Info Cards launched soon

**Objective:** Present the complex issue of coastal adaptation in an easily accessible format that is **digestible for all audiences**. Help users understand the **range of available options**, the pros and cons of each, and the permitting process needed to implement them.

**Deliverable:** An **informational resource** that identifies **over 40 adaptation strategies** to protect from coastal hazards. Includes a central website, Adaptation Strategy Matrix, Info Cards, interactive map, links to agencies with relevant permits and approvals

**Next Steps:** Share the resource widely with agencies/organizations from various sectors

**PROTECT**  
Non-Structural Stabilization Measure | Bank or Dune Stabilization with Vegetation



Muskegon Dunes

**DESCRIPTION:**

Dune sands are readily moved and shaped by wind and water action. Bank or dune stabilization with vegetation involves the planting of salt-tolerant plants with extensive root systems along dunes to prevent erosion. Vegetation helps capture and anchor sand and provides a buffer to protect inland areas from waves, flooding, and erosion.

Vegetation must be able to survive sand blasting, sand burial, salt spray, saltwater flooding, heat, drought, and a limited nutrient supply. Only a few plant species can tolerate these coastal stresses.

**ADVANTAGES:**

- Lower environmental impact than structural measures
- Easy to install compared to structural or water-based measures
- Redesigned with relative ease
- Vegetation strengthens dunes and increases resilience to storm events. It captures wind-blown sand to help nourish dunes, and also serves as a barrier to human foot traffic in erosion-prone areas
- Maintains natural coastal landform
- Provides bird and wildlife habitat and ecosystem services
- Absorbs and dissipates wave energy thus reducing flooding, erosion, storm surge
- Reduces erosion from runoff by absorbing water, breaking the impact of rain drops or wave splashes, and reducing the speed and flow of overland runoff

**DISADVANTAGES:**

- Requires continual supply of sand resources for renourishment
- Appropriate in limited situations

ADAPTATION STRATEGIES FACT SHEET

**PROTECTS FROM**

- Erosion
- Storm Flooding
- Wave Impact Force
- Sea Level Rise Flooding

**COST**

\$   \$\$\$\$   \$\$\$

**MAINTENANCE**

\$   \$\$\$\$   \$\$\$

**LIFE SPAN**

SHORT ————— LONG

Office of Planning and Sustainable Development

PROTECT | NON-STRUCTURAL STABILIZATION MEASURE



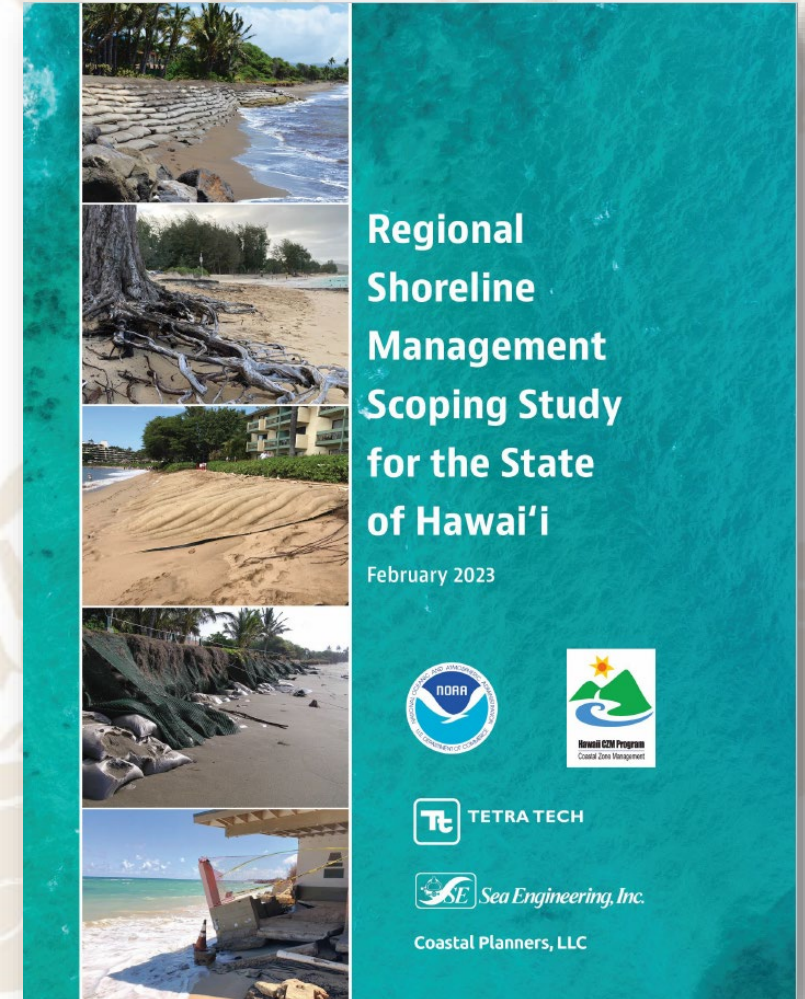
# Regional Shoreline Management Scoping Study

**Status:** Completed; Final Report & StoryMap coming soon

**Objective:** First step in a larger initiative to open up opportunities for more **coordinated, large-scale and proactive interventions** based on how environmental conditions interact with the natural environment and development, rather than property lines

**Deliverable:** Proposed **methodology for defining shoreline regions** that incorporates range of factors; Identified challenges and opportunities with implementing a regional shoreline management strategy

**Next Steps:** Outreach to agencies with land use/resource management responsibilities; apply proposed methodology to test sites around the State



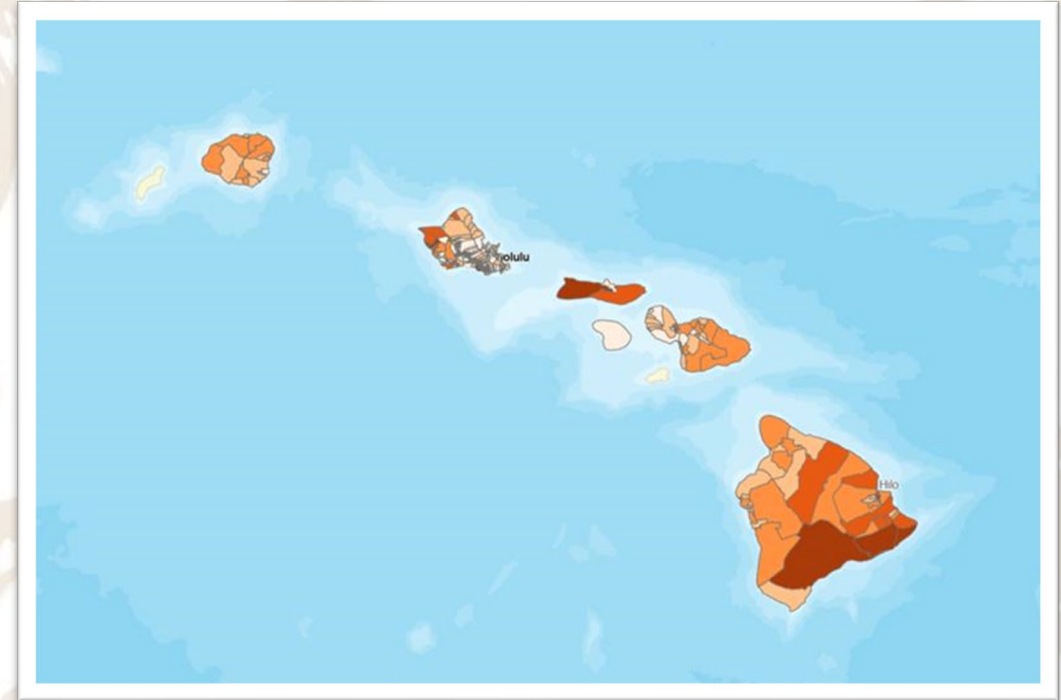
# Social Vulnerability and Coastal Hazards

**Status:** In progress, Social Vulnerability indicators have been identified and an initial spatial analysis has been conducted

**Objective:** To use the concept of Social Vulnerability to **identify communities with a disproportionate risk to sea level rise and coastal erosion hazards.** This will help inform future work of the CZM program to **apply for funding opportunities and to inform equitable policies** for coastal communities in Hawai'i.

**Deliverable:** A **final document** summarizing the findings of the analysis and outreach of the project. **Community profiles** will be included in the document to highlight community needs for adaptation to sea level rise.

**Next Steps:** Continue spatial analysis; Anticipated project completion July 31, 2024





# Managed Retreat Analysis

**Status:** Procurement stage; Anticipated Contract Start mid-June 2023

**Objective:** Build off the findings of the 2019 Managed Retreat Feasibility Report **to further understand the implications of implementing managed retreat** as a strategy for coastal hazard adaptation.

**Deliverable:** A **legal framework** for implementing MR, including potential amendments & their implications; an analysis of **financing and funding strategies**; conceptual application of legal framework, and funding mechanism to two case study sites.

**Next Steps:** Assemble Action Team; Anticipated project completion March 31, 2024





# Focus Area 2: Land-Based Pollution





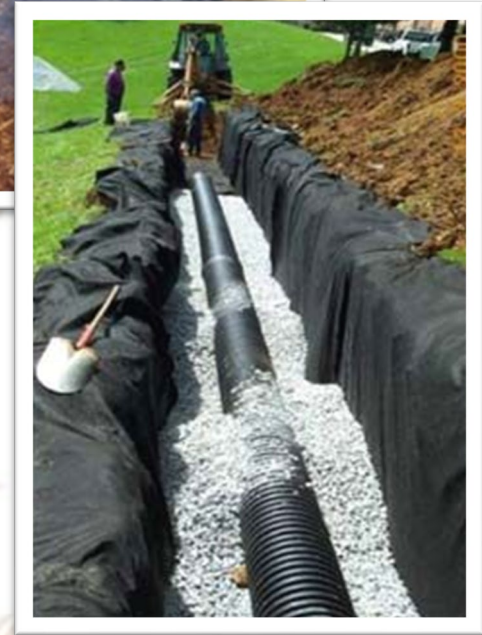
# Reimagined Low Impact Development (LID) A Users Guide

**Status:** Procurement stage; Anticipated Contract Start in late June 2023

**Objective:** Refresh, repurpose, and update the 2006 LID, A Users Guide so that it can be used an effective **planning tool for stormwater runoff management/green infrastructure.**

**Deliverable:** The updated LID Users Guide will **reorganize** the 2006 document, utilize better **graphics, interactive maps**, and be available in a printed format, as well as a standalone electronic version

**Next Steps:** Issue solicitation. Completion date December 2023





# Focus Area 3: Marine Ecosystems





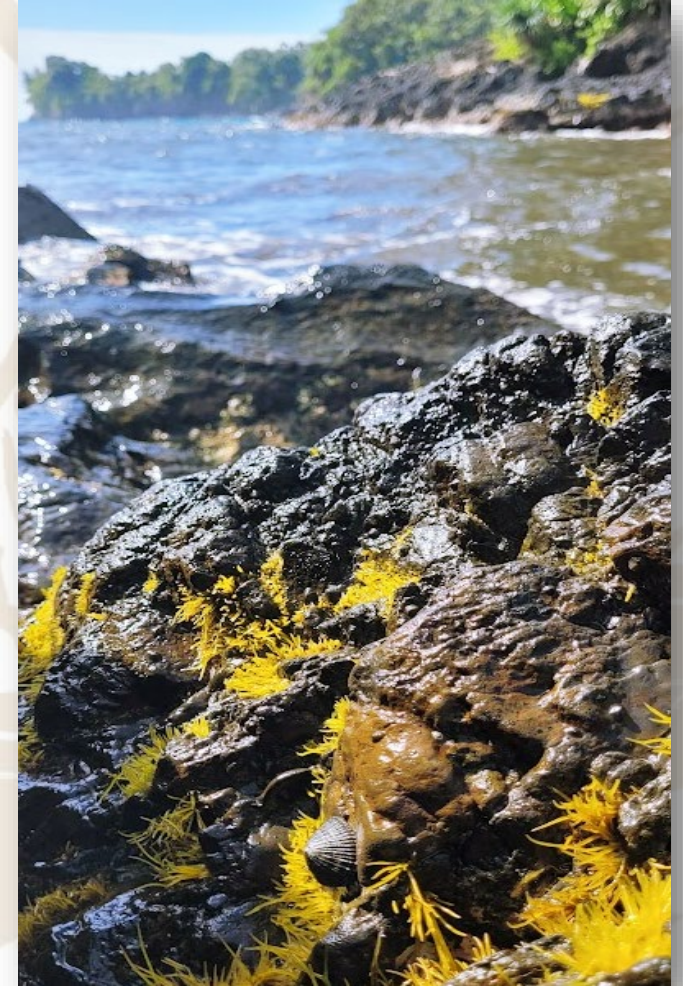
# Kōkua Community-based Monitoring Project

**Status:** Ongoing. The framework is drafted and currently being circulated to partners for feedback. Training materials and monitoring protocols are in development.

**Objective:** To develop a framework for community-based monitoring of nearshore subsistence resources to **fill gaps and support adaptive management**.

**Deliverable:** A **framework** for community-based monitoring; **co-developed protocols** for 'opihi and limu; **training materials and monitoring kits** to support communities; framework and monitoring protocols piloted in interested communities.

**Next Steps:** Complete circulating draft framework w/project partners for feedback. Finalize sites and initiate pilots with interested communities. Revise framework based on lessons learned from implementation.





# **Roundtable Updates & Announcements**



# Next Meeting:

**State Climate Commission Meeting:** June 22, 2023

**ORMP Coordinated Working Group Meeting:** October 2023

- Discussion of PSM FY24 project proposals



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## Mahalo!

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