

Shared Governance of our Aquatic *Kuleana*

Kahawai-Muliwai-Kahakai

A photograph of a person standing on a dark, rocky shoreline, using a long spear to hunt in the ocean. The person is wearing a blue shirt and light-colored shorts. The ocean is a deep blue with white foam from the waves crashing against the rocks. In the background, a steep, forested cliff rises from the water's edge under a bright blue sky with scattered white clouds.

Bob Nishimoto
Hāmākua CDP-AC member

CDP Action Guide

4.2 Protect Coastal Resources

Community Action 3

Develop a **Coastal Resource management plan** as part of Watershed Management plans

Community Action 4

Support the organization of a community-based *hui* for the **fisher** people of the **Hāmākua Coast**



...what happens mauka,
does not stay mauka.

12 8 '02

Muliwai is keystone to coastal resource management

- *Bridges *kahawai* to *kahakai*
- *Nursery habitat for marine coastal fishes
- *Gateway to native stream species



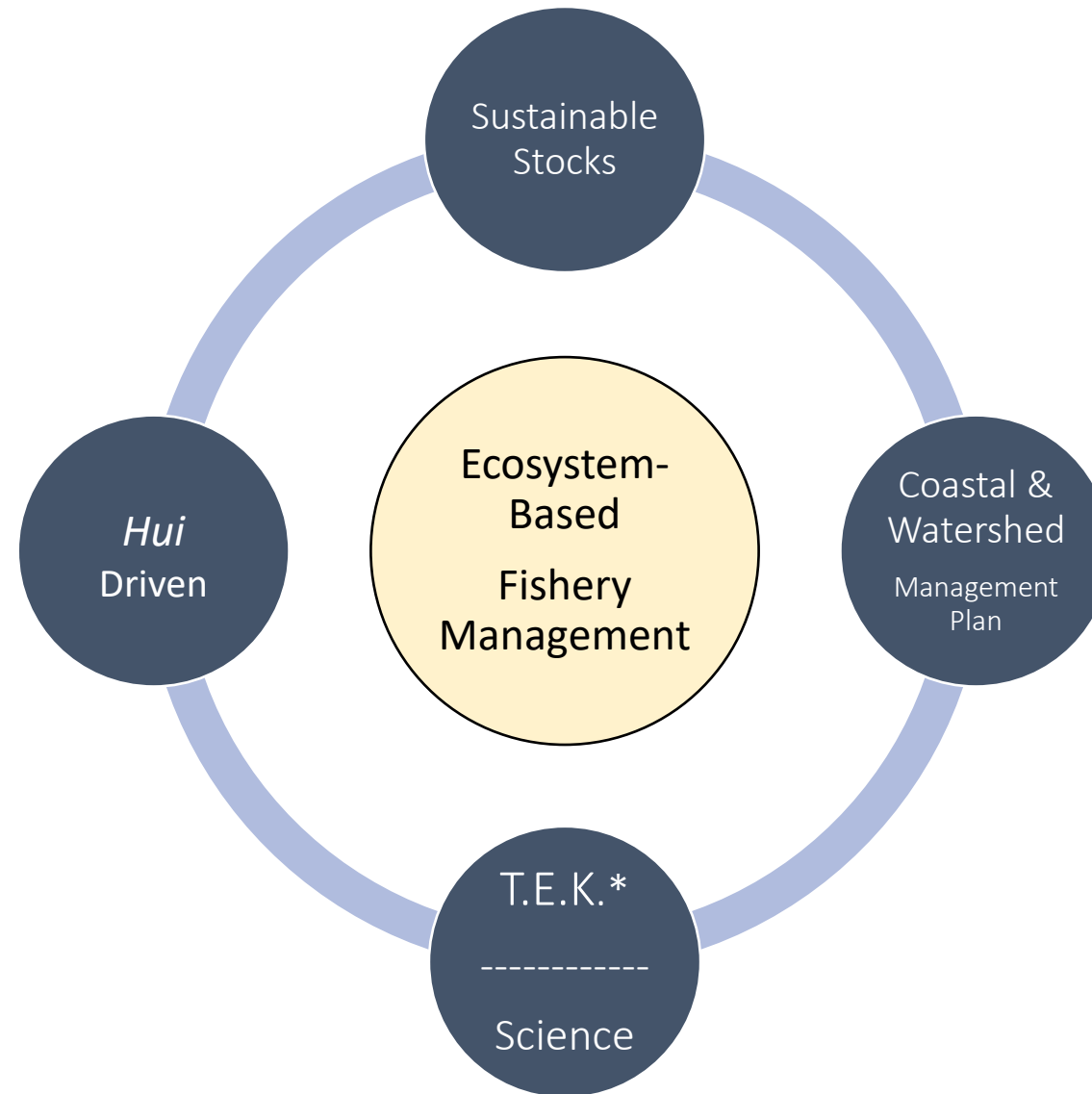
Bottom-up Fishery Management (FM)

Community-Based FM

- +Fishers who live and work in their community with historical knowledge
- +Focus ocean resource management to individual/village areas
- +Qualitative not quantitative data for rule-making

Ecosystem-Based FM

- +Managing fisheries on coast-wide scale
- +Maintain ecosystem in a healthy, productive, resilient condition
- +Can apply to management of protected species



*Traditional Ecological Knowledge

Hāmākua *Hui*

Hawai'i County

Hāmākua Development Plan Action Committee (HDP-AC)

Public Access, Open Space, and Natural Resources (PONC)

State of Hawai'i

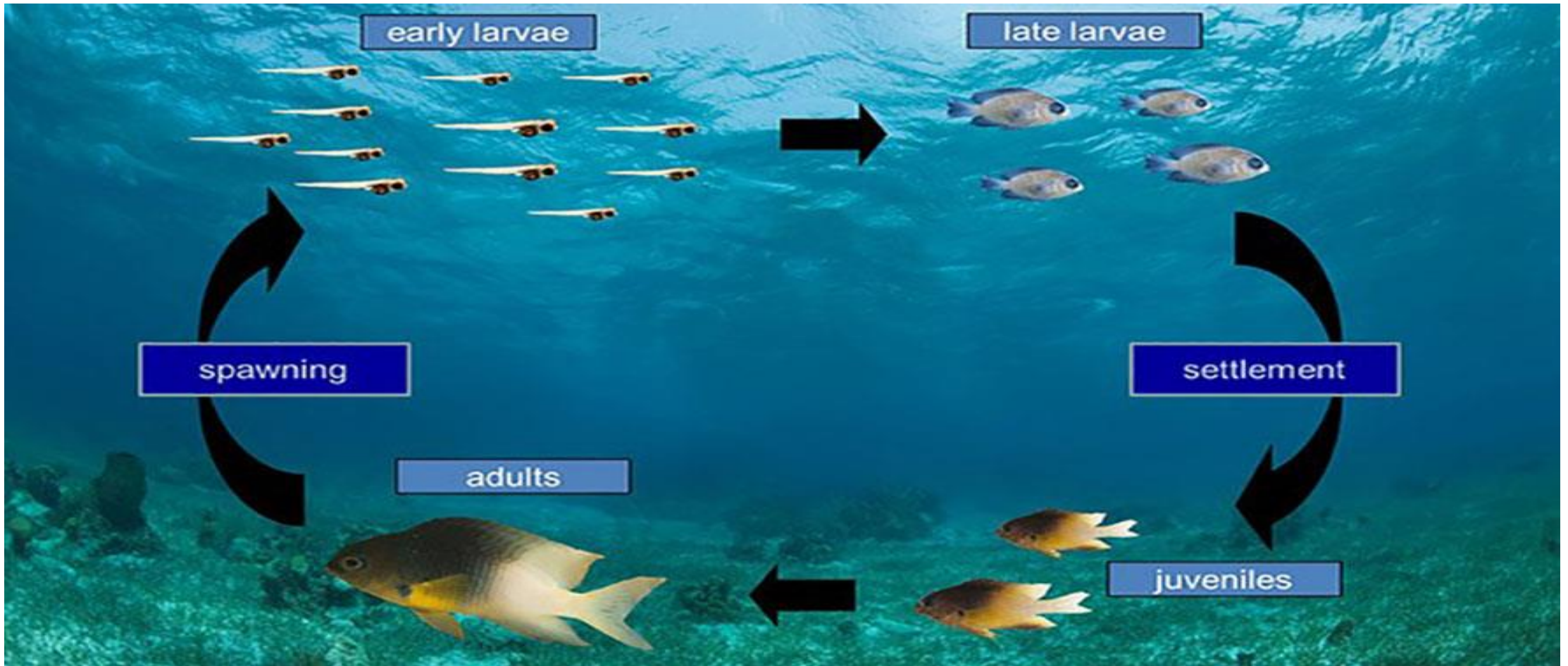
Hawai'i Division of Aquatic Resources (HDAR)

Marine and Coastal Zone Advocacy Committee (MACZAC)

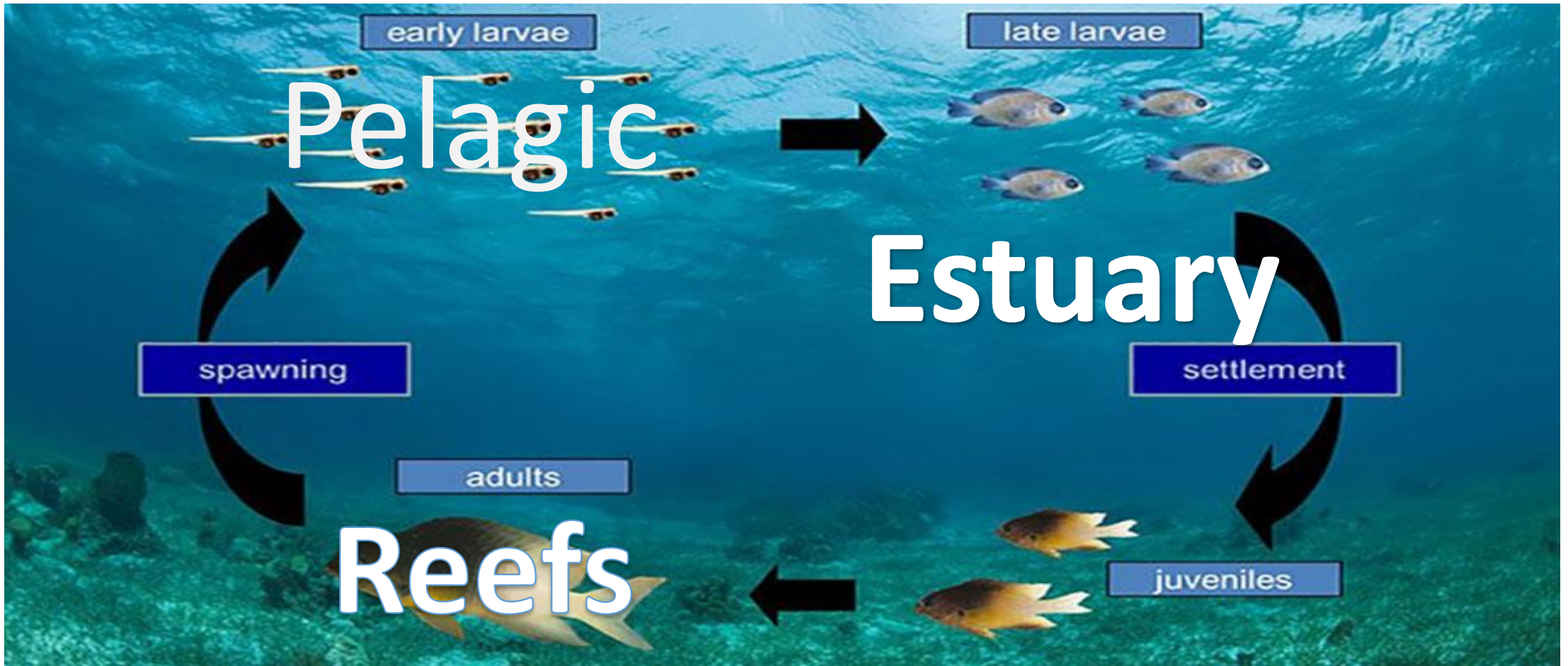
Fisher Community

Hawai'i Fishermen's Alliance for Conservation and Tradition (HFACT)

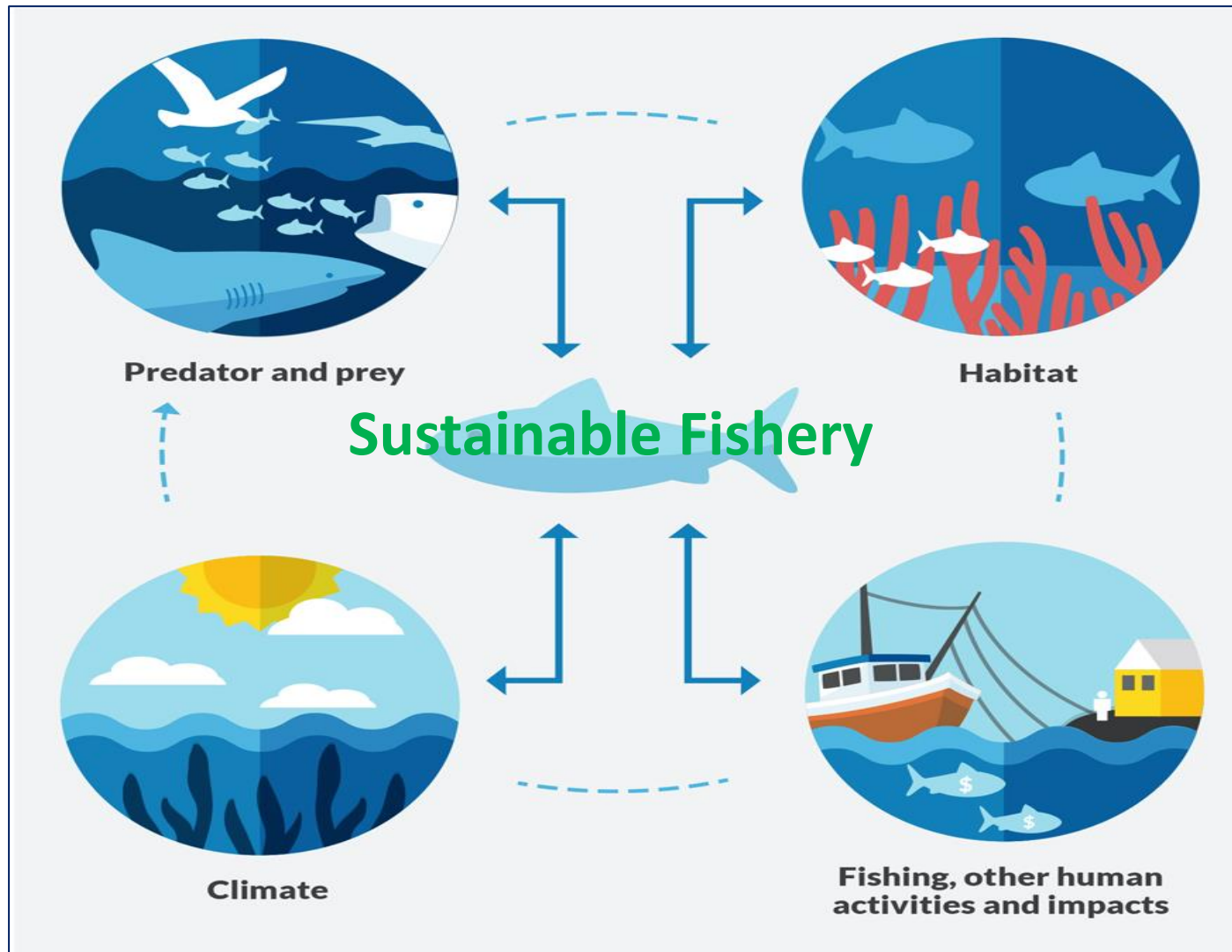
Life Cycle of our Coastal Fish



Ecosystem Management of our Coastal Fisheries



Threats & Solutions to Hāmākua Coast Subsistence Fisheries



*Diet for Juvenile
Hawksbill turtle*

*Maintain ecosystem
health*

*Estuary as essential fish habitat
for sustainable fishery*

*'Fish is a by-product of a healthy
habitat'*

*Climate threat of sea
level rise, severe
weather*

*Build resilience with
healthy nursery habitat*

*Land-based pollution,
sediment runoff, cliff slides*

*Protect natural streamflow to
the ocean*

Goals for Community Actions #3 & 4

1. Adopt Hawaiian perspective of '*Mauka-Muliwai-Makai*'

“Native Forest → Natural Stream Flow → Momona Ocean”

2. Focus on nursery habitat (estuary) degradation, not overfishing, will gain fisher partnerships, coastal community support, climate resiliency
3. Use Chapter 37 of the Hawaii County Code, **Sustainability, Climate, Equity, and Resilience** (OSCER) as guidepost

Next step...

1. Recognize estuary as the keystone aquatic habitat
2. Organize regional *hui* for coastal resource management
3. OSCER* bridges County & State jurisdictions

An aerial photograph of a coastal region. In the upper right, a large, deep blue body of water (likely a bay or harbor) stretches towards the horizon. To the left of the water, a city with various buildings and parking lots is visible. In the center, a large, irregularly shaped body of water (a lagoon or pond) is surrounded by green grass and trees. To the right of the lagoon, a golf course with several green fairways and a clubhouse is visible. In the foreground, there are more buildings, parking lots, and a small swimming pool. The text "Not my kuleana... is not an option" is overlaid in yellow, handwritten-style font in the upper right quadrant of the image.

Not my *kuleana*...
is not an option