Mahuahua Ai o Hoi

Presentation to the
Ocean Resources Management Plan (ORMP)
Policy Group,
February 3, 2010.

J. Kanekoa Kekua-Shultz, The Nature Conservancy

2009 ORMP Implementation Project in partnership with:
  KakoʻoʻOiwi
  Koʻolaupoko Hawaiian Civic Club
  Hawaii Community Development Authority
  Hawaii Coastal Zone Management Program
  National Oceanic and Atmospheric Administration
Mission Our mission is to create economic, cultural, social and biological value and to lead a sustained, long-term public/private commitment to establish Hoi as a puuhonua (sanctuary, place to heal) through planning, partnership, advocacy, pule, and management.

Vision

- A Hawaiian estuary where Hawaiian culture is being practiced and families are thriving, feeding and educating throughout Hoi, Heeia, Koolaupoko, and Hawaii.

Objectives

- **RESTORE CULTURAL CONNECTION** between the Koʻolaupoko ahupuaʻa and the Hawaiian community.
- Establish a **LAND MANAGEMENT PROGRAM** to restore 70% or more of the property into active, organic kalo fields and sustainable food crops. Encourage sustainable, organic food production in the State of Hawaiʻi and develop new farm-to-market strategies for local produce.
- Create **EDUCATIONAL PROGRAM** that can use the living site of a functioning ahupuaʻa, to transfer knowledge of traditional Hawaiian farming practices and customs to a new generation. Thereby becoming a positive identifier for the community and schools to help create life behavioral changes to strengthen the connection between the people and the ʻaina.
- Establish a **RESEARCH PROGRAM** to study the role that traditional Hawaiian taro patches and fishpond aquaculture systems can play in the ecology of Kāneʻohe Bay by controlling flooding, relieving sediment build-up, and providing a habitat for native birds and aquatic species.
- Restore a section as a **NATURAL WETLAND** to allow for growth of native wetland flora and fauna.
- Provide **ECONOMIC SUSTAINABILITY** for the communities of Koʻolaupoko by providing jobs and community based businesses close to home.
- **ENCOURAGE AND MENTOR** other community groups to study and improve upon our model in their own communities and ahupuaʻa. Also create a protocol for other groups wanting to join and support Māhuahua ʻAi o
CZM Funding and Support

- Management Goal 1, to improve coastal water quality by reducing land-based sources of pollution and restoring natural habitats by establishing coastal water quality baseline information by recording water sampling results of shoreline, mid-streambed, and mauka streambed and by incorporating traditional Hawaiian practices to design a wetland system of auwae, loʻi, dryland catchment and natural filter grid;
- Management Goal 2, to improve the health of coastal and ocean resources for sustainable traditional, subsistence, recreational, and commercial uses by interviewing, video-taping, and recording oral histories from kupuna about place, subsistence, and historical strategies and cultural practices
- Management Goal 3, to enhance public access and appropriate coastal dependent uses of the shoreline by establishing and administering protocol allowing appropriate access and activities for the wetlands and shoreline
- ORMP Perspective 3, Management Goal 1, Strategic Action 2, to apply integrated and place-based approaches to the management of natural and cultural resources by building capacity for community participation in natural and cultural resources management, specifically by creating an advisory group of kupuna, community members, businesses, and an economist within Heʻeia.
A Typical Ahupua’a:
Project Mahuahua`Ai o Hoi
Mahuahua 'Ai O Hoi

Community

Resource

Culture

Economic
Ahupua`a and Community

He`eia Ahupua`a Map

- Restoration efforts within He`eia, Hawaii’s Community Development Authority (HCDA) and Ho`o restoration highlighted in yellow.

Hawaii’s State GIS Program
hawaiicountygis.org
Philosophies We Employ

• Kupuna Driven Policy
• Experiences and Mo`olelo drive policy, and interactions with the environment
• Community First
• NGO-protect Community from Community
Strategies

RST - POL results chain
Hoi-He `eia Corridor, Kaneohe Bay

- Reduced force (decelerated volume) of freshwater release into Bay
- Reduced or eliminated effluent plume and debris into Bay
- Reduced rate of freshwater release at maul wa`i into Bay
- Reduced mass of suspended sediments released onto reefs in Bay
- Reduced land pollution onto inshore reef in Bay

(IUCN: "9.3 Agricultural and Forestry Effluents"); "9.1 Household Sewage and Urban Wastewater")

Loko `a are operating in Hoi-He `eia corridor
Volume of rainwater transport is reduced via ponding in loko `a

- Suspended sediments settle out of water within effluent ponds
- Increased nutrient uptake by native system in loko `a
- Increased water retention in the system
- Increased distribution of freshwater throughout the Bay
- Stabilized primary productivity in nearshore waters adjacent to puna and mau iwa

Increased primary productivity of inshore reefs in Bay

(IUCN: "1.2 Ecosystem Degradation")

RST - DEG results chain
Engaging the community, youth, and *na kupuna*
Developing Food Sovereignty

- Cleaning Community
- Cleaning Land
- Resiliency
- Farmer Apprentices
- Revenue Streams
Opportunities we encountered and will encounter with CZM

- Community
- Government
- NGO
- State of Hoi
- Politics
- Planning
- Permitting
Lessons, Success, Needs

- Anything Possible
- Pule, Pule, Pule
- Everybody is an asset
- There is a need for cultural restoration
- Fast Tracking development of Traditional systems in permitting process
Mahalo