

# Indigenous People's Conservation Practices and Knowledge Systems Building on a Legacy of Collaboration in the Pacific: A Biocultural Approach to Facilitate Implementation

2012 National Landscape Conservation Cooperative Workshop

28 Malaki 2008



*That which dwells above in the stratum of the firmament,  
this is Hawaii, this is who we are*



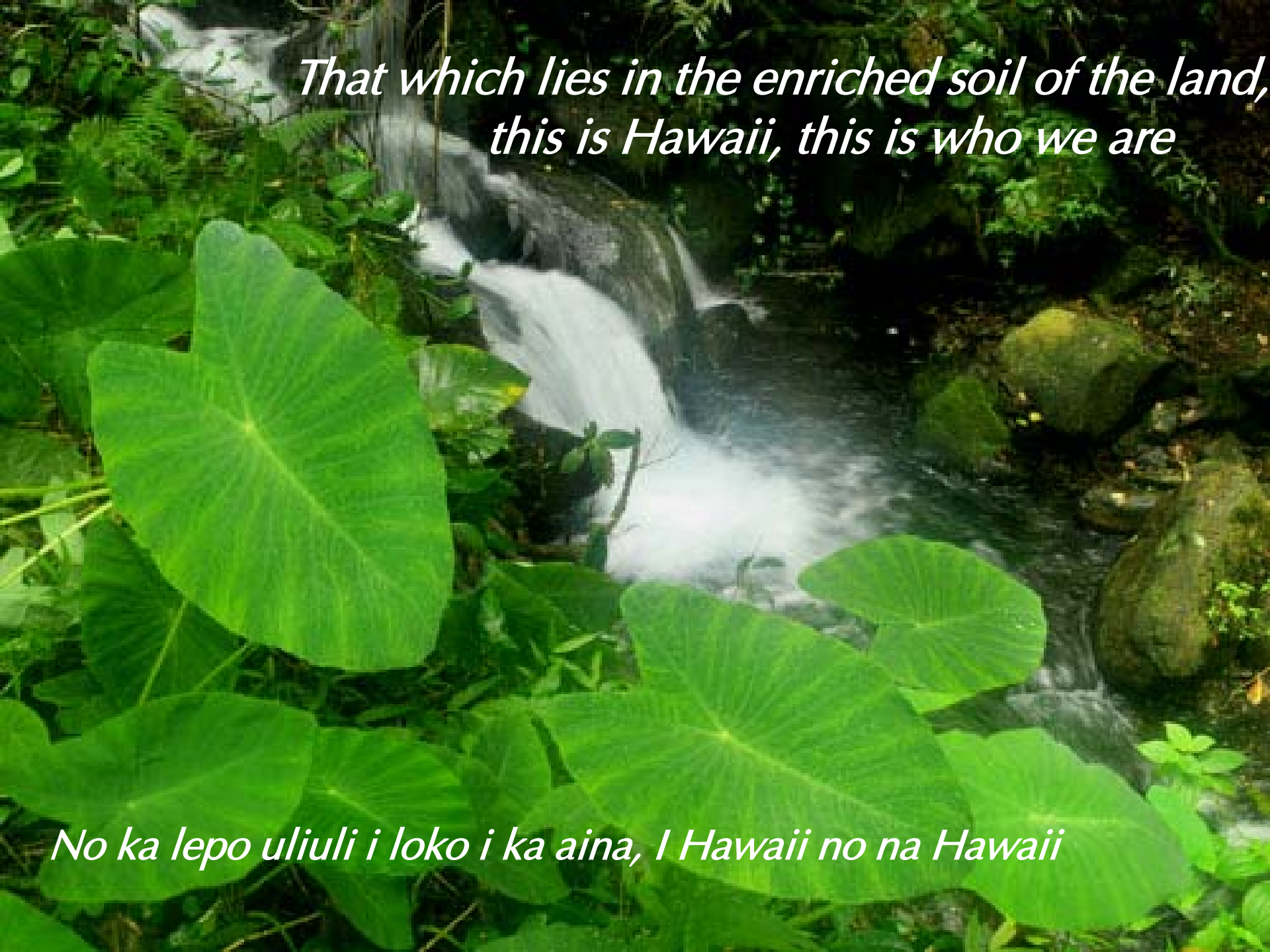
*No ke aouli i luna i ka lewa, I Hawaii no na Hawaii*

An underwater photograph showing a large school of fish swimming in clear blue water. The fish are silvery with dark outlines, moving in a loose formation. Below them is a dark, rocky reef structure. Sunlight filters down from the surface, creating a bright, hazy glow at the top of the frame.

*No ke kai uli i lalo i ka moana, I Hawaii no na Hawaii*

*That which is deeply submerged in the depth of the ocean,  
this is Hawaii, this is who we are*





*That which lies in the enriched soil of the land,  
this is Hawaii, this is who we are*

*No ka lepo uliuli i loko i ka aina, I Hawaii no na Hawaii*

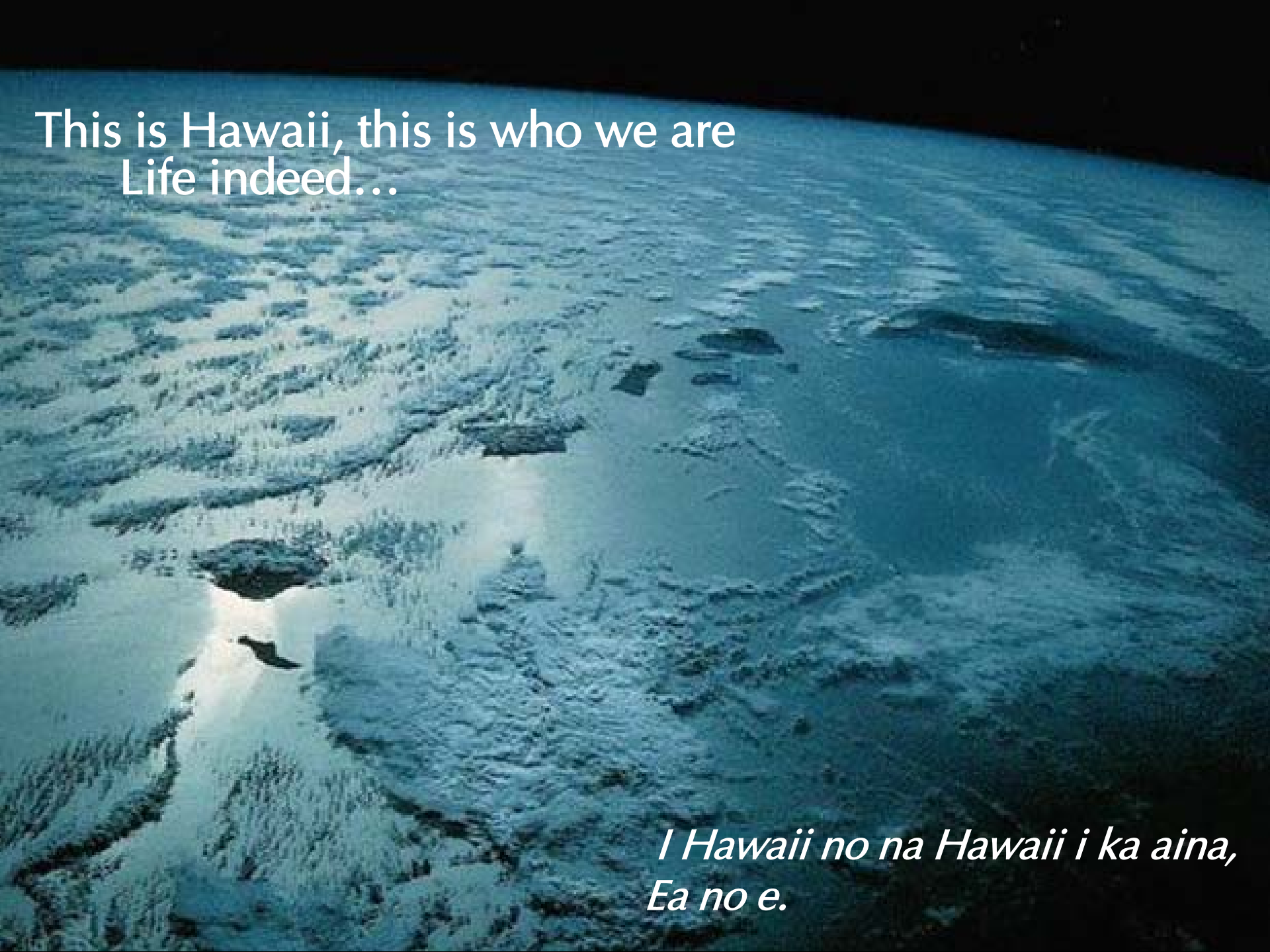




*Affirmed, established,  
united by relationship  
and responsibilities,*

*E kuina i luna, E kuina i lalo,  
E kuina i ko kakou mau loko,*



An aerial photograph of a Hawaiian coastline. The image shows a white sandy beach curving along the edge of the ocean. The water is a vibrant turquoise color, with visible ripples and small waves breaking near the shore. The coastline is rugged, with dark, rocky areas interspersed with the lighter sand. The overall scene is serene and beautiful, capturing the natural beauty of Hawaii.

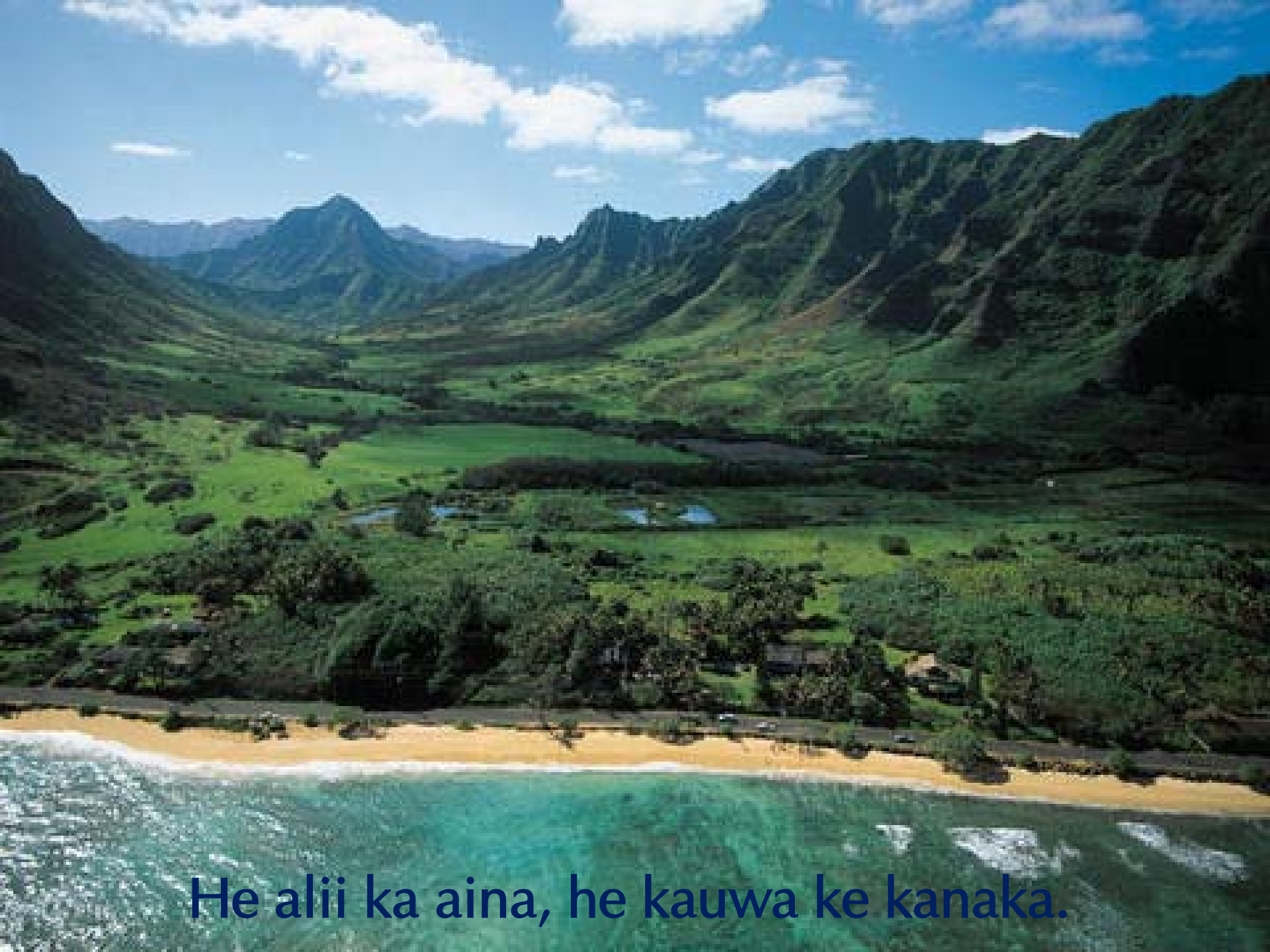
This is Hawaii, this is who we are  
Life indeed...

*I Hawaii no na Hawaii i ka aina,  
Ea no e.*

This is Hawaiki, Avaiti, Savaii, this is who we are  
Life indeed...



*Pacific Islands Climate Change Cooperative*



He alii ka aina, he kauwa ke kanaka.







## *Categories of Ecosystem Services*

## *Categories of Benefit-Values*

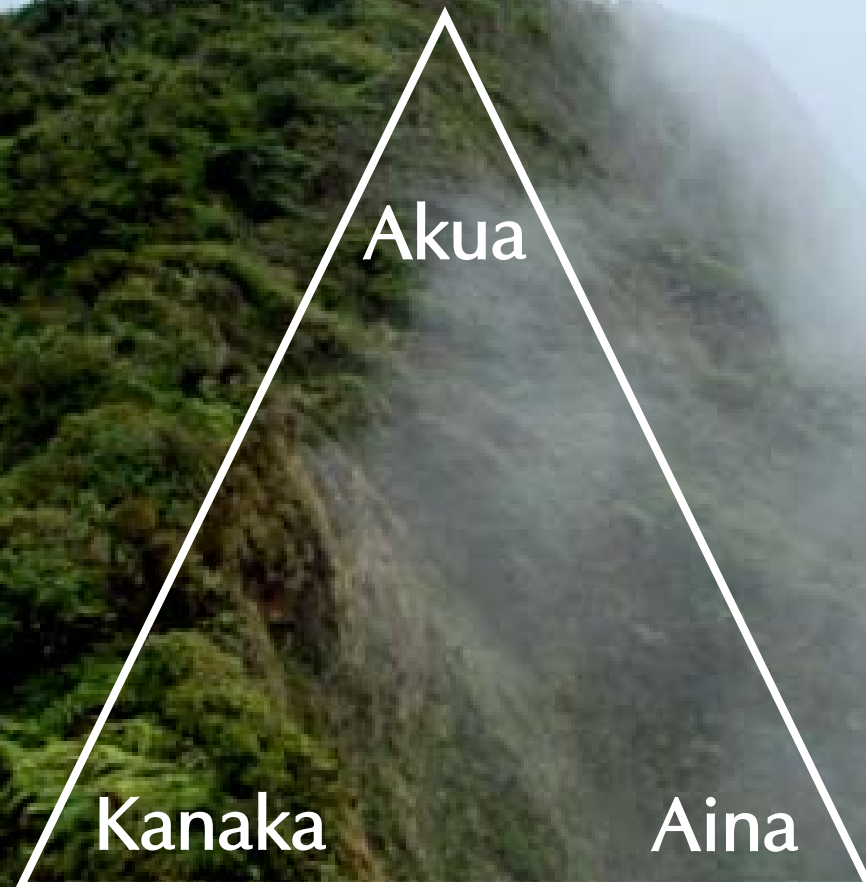






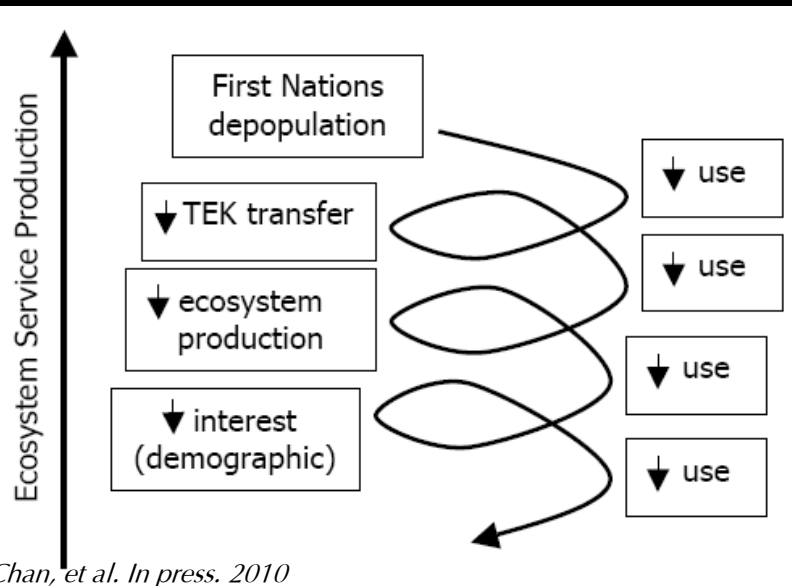






Life supporting services were once paramount

# Change Agent: New Values



- New religion = No longer familial, separation
- Depopulation = Rural subsistence impossible
- New economy = Large landscapes altered
- New land ownership = Access and control



# Change Agent: Effect on use



- TEK Loss = Limited individuals retain practice
- Substitution = Introduced species used
- Fragmentation = Systems thinking breakdown
- Identity Separation = Hawaiian is ancient

# Renaissance: Restoration

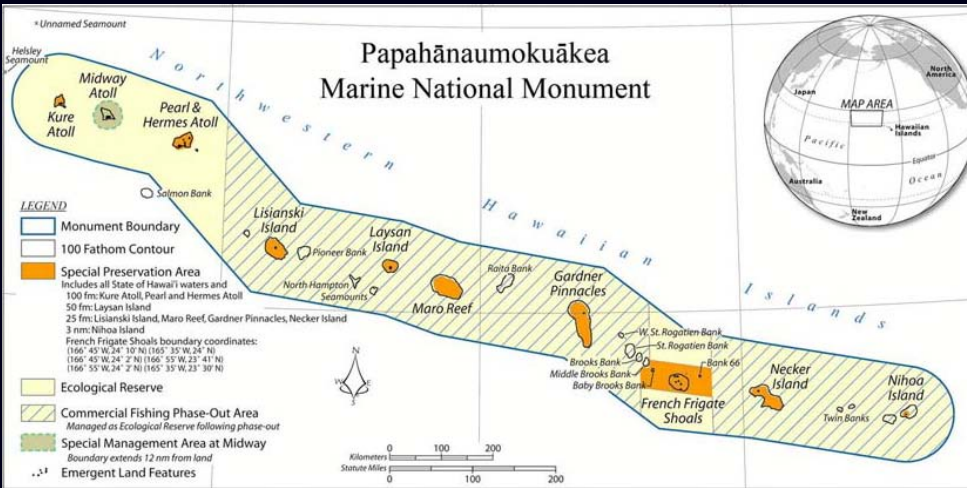


- TEK Revival = New generation of masters
- Species = Increased propagation and use
- Integrated System = Holistic management
- Contemporary Identity = Hawaiian is dynamic



# Papahānaumokuākea: Marine National Monument

## First mixed (natural and cultural) UNESCO World Heritage Site in U.S.





# Landowner and Univ. of Hawaii Collaboration: Cultural Resources Professional Internship





# NPS and Univ. of Hawaii Collaboration

## A framework to address CC impacts on CR



# PICCC Mission Statement

The PICCC will improve the ability of native island species and ecosystems to accommodate future climate change and related perturbations, and support the long-term protection of key cultural resources by providing useful projects of climate and natural resource change in the Pacific Islands, innovative management options, and a membership that supports coordinated action among institutional and community stakeholders.



# PICCC (a few) Core Assumptions



- Adaptive management models need to consider and incorporate climate change effects on ecosystem services that will negatively impact Pacific Island cultures and critical cultural resources.

# PICCC (a few) Core Assumptions



- Successful conservation in the context of global and regional changes requires the understanding, support, and meaningful participation of the Pacific Island communities. Restoration of native ecosystems can enhance and draw upon Pacific Island cultural identity, knowledge, and practice in equal measure.



# PICCC Culture and Communities Work Group

## Working Definition of Cultural Resources

Any physical, biological, and human elements that strengthen a people's evolving relationship with a defined place, and maintain their unique set of customs, beliefs, language, traditional knowledge, objects and built environment.

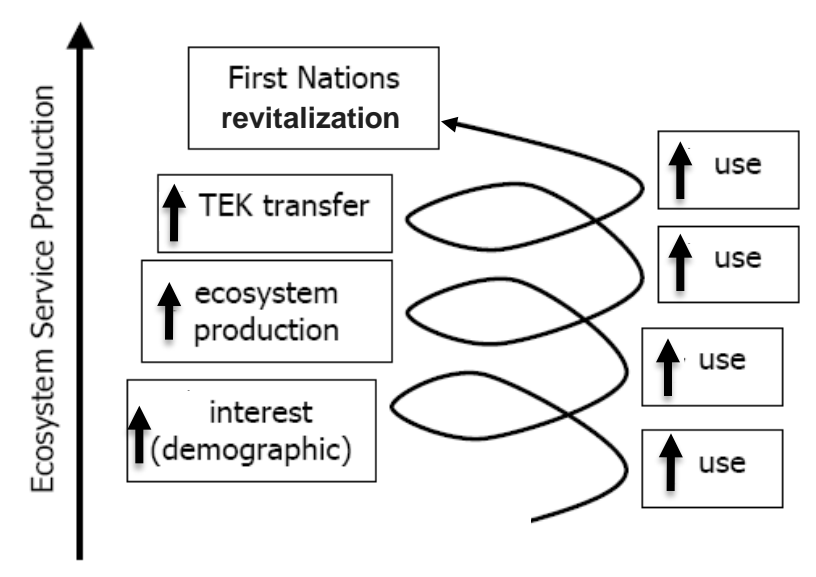


1. Different thought process; it's a bio-cultural, ethno-ecological landscape.
2. NR are CR. It's integrated, it's complex. Stove-piping doesn't help.
3. Acknowledgment of roles; meaningful engagement early and consistently.
4. Respect for, and from, traditional knowledge keepers, develop research together.
5. Respect generational relationships; report back, give back, be relevant.
6. Stationarity is dead, not just for climate... indigenous culture is living and dynamic.
7. Each ecosystem is unique...so is its corresponding indigenous community.



I Hawaii no na Hawaii i ka aina.





I Hawaii no na Hawaii i ka aina.



American Bird Conservancy  
Bishop Museum  
Hawaii Wetland Joint Venture  
Kamehameha Schools  
National Oceanic and Atmospheric Administration  
National Climate Data Center Climate Services  
National Marine Fisheries Service  
Pacific Services Center  
Papahānaumokuākea Marine National Monument  
Office of Hawaiian Affairs  
State Dept. of Land and Natural Resources  
Division of Forestry and Wildlife  
The Nature Conservancy Hawaii Office  
Univ. of Hawaii Manoa  
Social Science Research Institute  
U.S. Forest Service  
Institute for Pacific Islands Forestry  
U.S. Dept. of Agriculture  
Natural Resources Conservation Service  
U.S. Fish and Wildlife Service  
Ecological Services Pacific Islands  
Migratory Birds and Habitat Programs  
National Wildlife Refuge System  
Wildlife and Sport Fish Restoration  
U.S. Geological Survey  
Pacific Basin Information Node  
Pacific Island Ecosystem Research Center

# MAHALO!

