# Lessons learned from community co-management in the Western Pacific

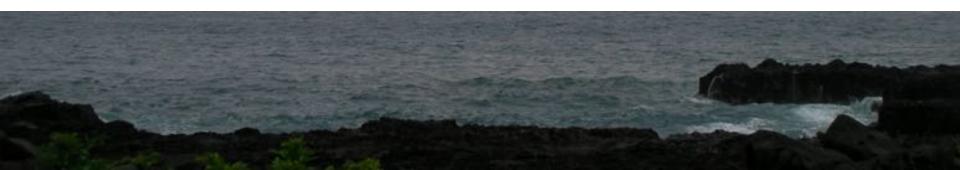
What factors influence to program outcomes; With examples from Hawaii and American Samoa

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#### **Overview**

- Background: Co-management what is needed for it to work? (meta-analyses and frameworks)
- Case examples: Hawaii and American Samoa
- Contextual and design factors influencing program outcomes
- **Discussion/Conclusions:** What does this mean for fisheries co-management?



### Community Fisheries Co-management

 Local communities and government agencies partner in creating and sustaining systems for local marine resource management

 Can (under the right conditions) lead to more sustainable resource management and improved livelihoods

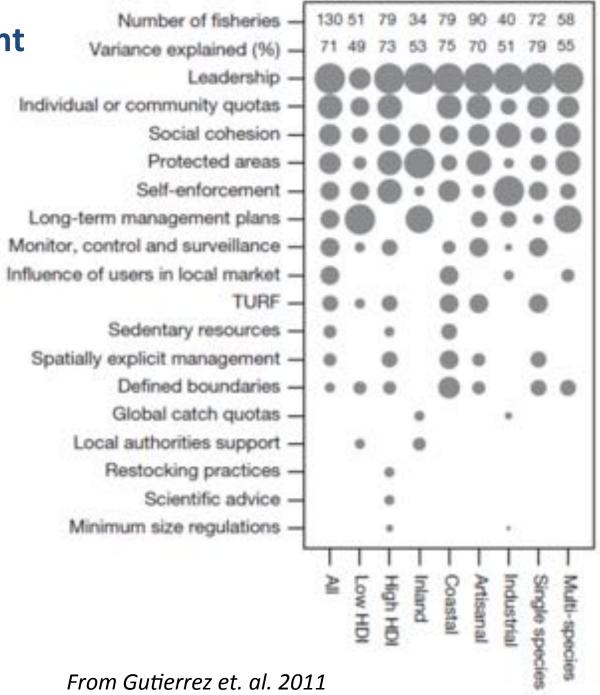
 "...the only realistic solution for the majority of the world's fisheries." (Gutierrez et al. 2011)

### **Community Fisheries Co-management**

- Promising in theory, but meets political, social, economic, ecological, and logistical challenges in implementation
- Challenging to develop new institutional arrangements to devolve power to local communities
- Issues in community capacity, differing ideas regarding what and how things should be "managed"
- Institutional and social contexts

Key co-management attributes for fishery success

From a study of 130 co-management regimes worldwide



#### Design principles for fishery co-management

- 1. Clearly defined geographic boundaries and membership rights;
- 2. The development and enforcement of rules that limit resource use;
- 3. Congruence between rules and local conditions (i.e. scale and appropriateness);
- 4. Resource users have rights to make, enforce, and change the rules;
- 5. Individuals affected by the rules can participate in changing the rules;
- 6. **Monitoring** of the resources;
- 7. The presence of **accountability mechanisms** for those monitoring the rules;
- 8. Sanctions that increase with repeat offences or severity of offences (graduated sanctions);
- 9. The presence of **conflict resolution mechanisms**; and
- 10. The degree to which co-management arrangements are **nested** within other institutions

From Cinner et. al. (2009), based on Ostrom (1990) and additional fishery-related studies

#### **Contextual factors**

- Culture, ethnicity, diversity
- Social organizations and institutions
- Community structure
- Leadership
- Ecology
- History
- Economy
- And many others....



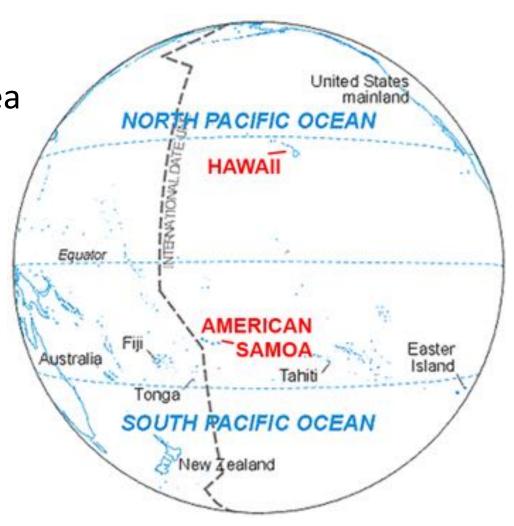
### Community Co-management Programs in the US Pacific

Hawai'i:

Community-based
Subsistence Fisheries Area
(CBSFA) Legislation

- 2 designated communities
- No approved rules
- American Samoa:

   Community-based
   Fisheries Management
   Program (CFMP)
  - 11 participating villages
  - Legal framework supports community management plans





### Hawaii's Community Based Subsistence Fishing Area (CBSFA) Legislation

"For the purpose of reaffirming and protecting fishing practices customarily and traditionally exercised for purposes of native Hawaiian subsistence, culture, and religion"

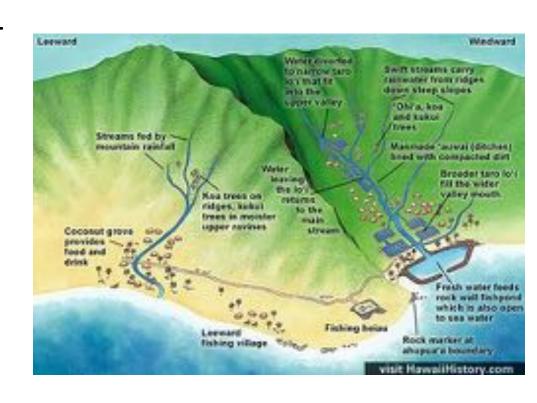
(Hawaii Revised Statutes, Ch. 188-22.6)

- Initiated in 1994
- Based on the idea of strengthening traditional Hawaiian practices of natural resource management
- Multi-ethnic society native
   Hawaiians are a minority



### Traditional marine management in Hawaii: *Ahupua'a*

- Stretched from the top of the mountain to the sea
- Included agricultural areas in the uplands and allowed for the harvest marine resources in the coastal areas
- Local resource tenure outsiders could not harvest from another ahupua'a without first receiving permission (exclusion)
- Kapu enforcement
- Persisted over 1500 years



#### Breakdown of Hawaiian traditional systems

- Western colonization and breakdown of traditional systems
- Imported diseases
- Market economies
- Ahupua'a boundaries were split, land privatized
- Now well-integrated into the global economy





### Community-based Subsistence Fishing Area (CBSFA) Program and Legislation

- Protection of Hawaiian traditional subsistence rights called for in HI constitution
- CBSFA legislation established to protect Hawaiian subsistence rights/practices, improve marine resource management





### **Communities pursuing CBSFA designation**

Community	Progress on CBSFA Management:	
Moʻomomi (Molokaʻi)	Designated as pilot in 1994, dropped out in 1997 due to bureaucratic frustration; currently re-entering process to develop rules and management plan	
Miloliʻi (Hawaiʻi)	Designated in 2005 through the Hawai'i State Legislature. Management plan developed in 2008 – not approved. There are no state approved rules or management plan for this CBSFA.	
Ha'ena (Kaua'i)	Designated in 2006 through the Hawai'i State Legislature.  Developed a management plan and proposed rules, submitted to DAR in early 2012. Rules held up for years –hearings regarding proposed rules now scheduled for late 2014.	
Hoʻokena (Hawaiʻi)	Community organized and developed a management plan and rule package. Sought designation through the legislature in 2010, which failed.	
Additional Communities:  Kauaʻi (2), Oʻahu (5),  Molokaʻi (2), Maui (6),  Hawaiʻi (2), Nijibau (1)	At least 18 additional communities have been involved in the CBSFA process in some way, many expressing interest in CBSFA designation and beginning preliminary organizing to seek designation and develop management plans.	

Bureaucracy: Chapter 91 rule designation process



http://diggingperu.wordpress.com/2012/07/07/beaucracy-and-red-tape/

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- Challenge of defining "community"



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- Lack of state support



- Bureaucracy: Chapter 91 rule designation process
- Challenge of defining "community"
- Lack of state support
- Challenge of converting Hawaiian traditional management practices into a Western legal

The Constitution of the State of Hatoa

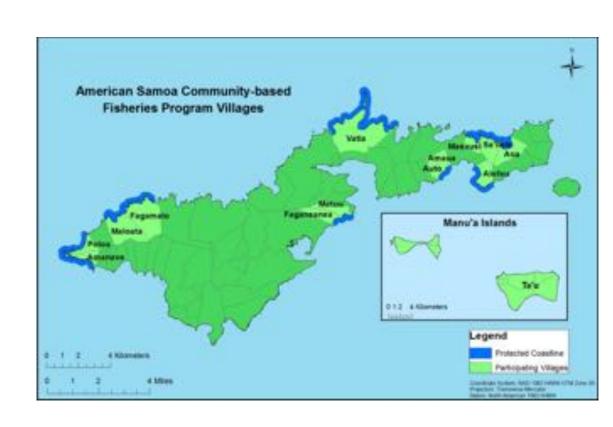
framework

- Bureaucracy: Chapter 91 rule designation process
- Challenge of defining "community"
- Lack of state support
- Challenge of converting Hawaiian traditional management practices into a Western legal framework
- Unclear mechanisms for enforcement



### American Samoa's Community Based Fisheries Management Program (CFMP)

- Initiated in 2000
- Currently 11 villages across the islands
- Village-based management in collaboration with the territorial government – Department of Marine and Wildlife Resources (DMWR)





### Community-based Fisheries Management Program (CFMP)

- Based on Samoan strong hierarchical social structure and cultural traditions, still intact today
- Homogeneous society over 90% Samoan
- Near-shore fishing largely subsistence with limited market demand
- Isolated location, very little tourism

#### **CFMP Village Consultation Process**



1. Village Chiefs (matai)



2. Untitled men (aumaga)



3. Women's group

### AFIO MAI I FAGANEANEA & MATU'U



#### FA'ASILASILAGA:

Mo ni Solitulafono Fa'afeso'ota'i le Ofisa o Faigafaiva 633–4456 ma le Ofisa a le NOAA-OLE i le 633–7628.

NOFOAGA O LE GATAIFALE FAASAO.

### **CFMP Villages in American Samoa**

	Process	
Village	initiated	Management status
Alofau	2001	Open 1 day/week (Saturday) to villagers only.
Amaua & Auto	2003	No-take for 3 years, open again for 1 month, closed again. Currently open to villagers only to fish.
Aoa	2005	No-take as of early 2008. Previously only open 1 day/week (Saturday).
Fagamalo	2003	No-take
Matu'u & Faganeanea		Closed for 3 years, now open periodically (at chief's discretion) to villagers only
Amanave		Closed to all. Finishing management plan, delayed by tsunami damage.
Fagasa		Recent designation – on portion of the bay closed to fishing; in the process of finishing management plan.
Poloa	2001	Only villagers allowed to fish
Sa'ilele	2005	No-take
Alega		Recent designation – in the process of finishing management plan.  No-take. Reserve was opened 1.5 years ago for 3 months, then closed



### **CFMP Enforcement and Regulations**

- Good local compliance, strong local enforcement (for the most part)
- Legal recognition and support at the territorial level
- Some village regulations are not legal under territorial law and cannot be enforced if outsiders violate them (ie. outsider exclusion)

**American Samoa** 

Hawaii



- Cultural and ethnic diversity, traditional systems, and community structures
  - Homogeneity in Samoa vs. diversity in Hawaii
  - Intact vs. disrupted traditional systems
  - Clear hierarchical community structures vs. less clearly defined communities



- Cultural and ethnic diversity, traditional systems, and community structures
- Leadership and resource management processes



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- Support from collaborating co-management agencies





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- Enforcement



Photo credit: Evelyn Lili'o, Fagasa

- Cultural and ethnic diversity, traditional systems, and community structures
- Leadership and resource management processes
- Support from collaborating co-management agencies
- Exclusion of outsiders
- Enforcement
- Appropriate institutional frameworks and adaptive capacity

### **Conclusions / Discussion**

Importance of local contextual and design factors



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- Many of these factors are fragile



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- Importance of local contextual and design factors
- Many of these factors are fragile
- Understanding these factors is critical to designing and implementing successful fisheries co-management programs



