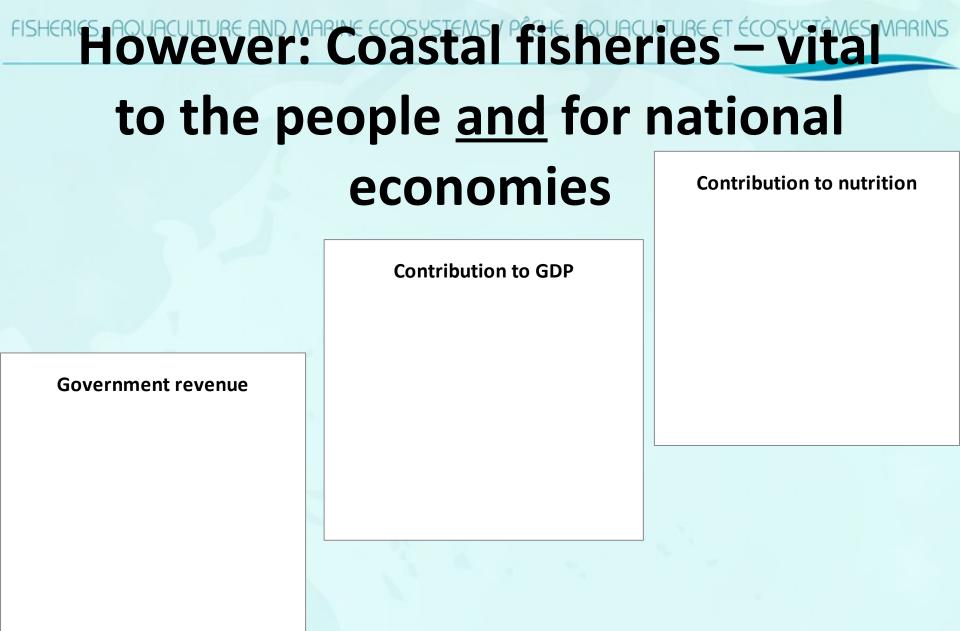
Promoting community resource management in Small Island Developing States

Knowledge exchange and information in the Locally Managed Marine Area Network

Hugh Govan

LMMA Network





Relative importance of off-shore and coastal fisheries in terms of types of benefits in the Pacific Islands Region

(Govan 2014 and data from Gillett 2009)

Maiana, Kiribati

STÈMES MARINS

What is the problem?

A ferspake has

Maiana, Kiribati

Winning M

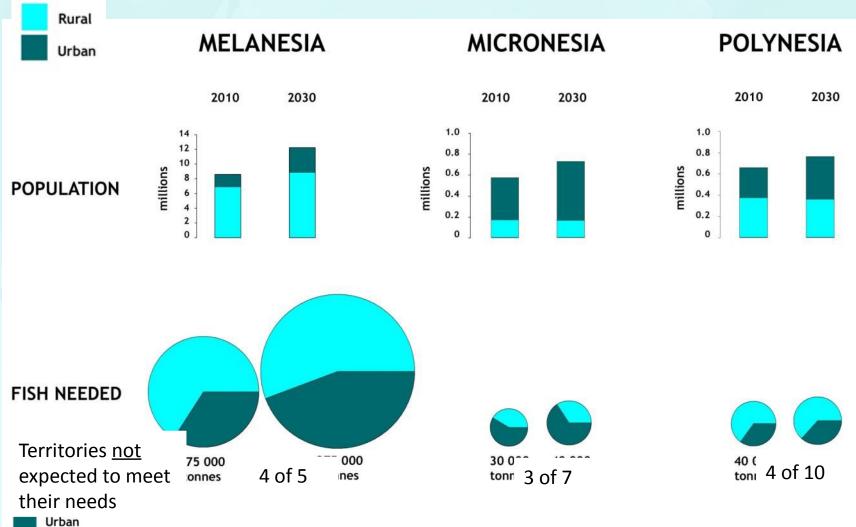
FISHERIES, AQUACULTURE AND MARINE ECOSYSTEMS / PÊCHE, AQUACULTURE ET ÉCOSYSTÈMES MARINS Causes for concern – particularly in Melanesia

- Most commercial invertebrate fisheries are over-exploited e.g. moratoria on sea cucumbers in most countries
- · And:

•

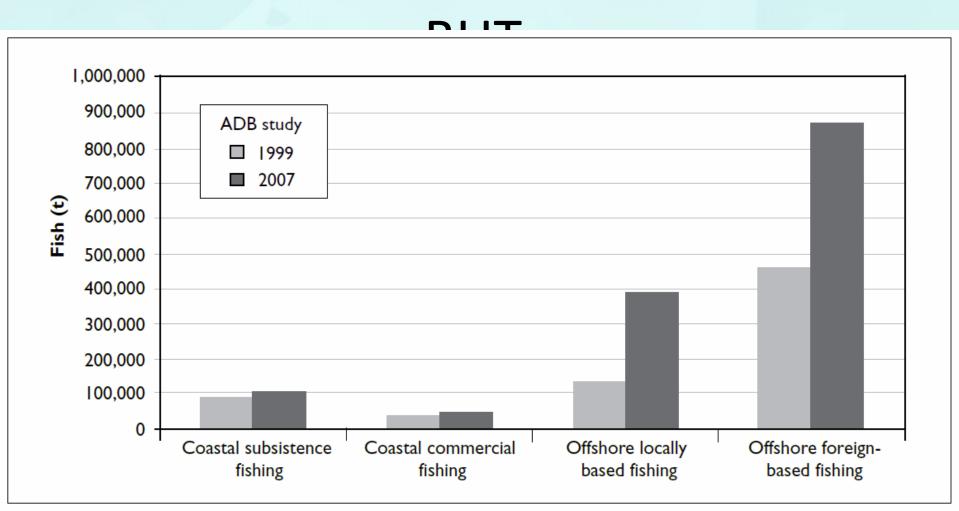
FISHERIES, AQUACULTURE AND MARINE ECOSYSTEMS / PÊCHE, AQUACULTURE ET ÉCOSYSTÈMES MARINS Causes for concern – particularly in

Melanesia





Much investment in coastal and off-shore fisheries <u>development</u>



Gillett and Cartwright 2010



What was the proposed solution (in 2000)?

Set up a network to:

- Promote coastal resource management
- Learn what works and why
- Build capacity
- Develop and establish favourable policy

But first... a key assessment

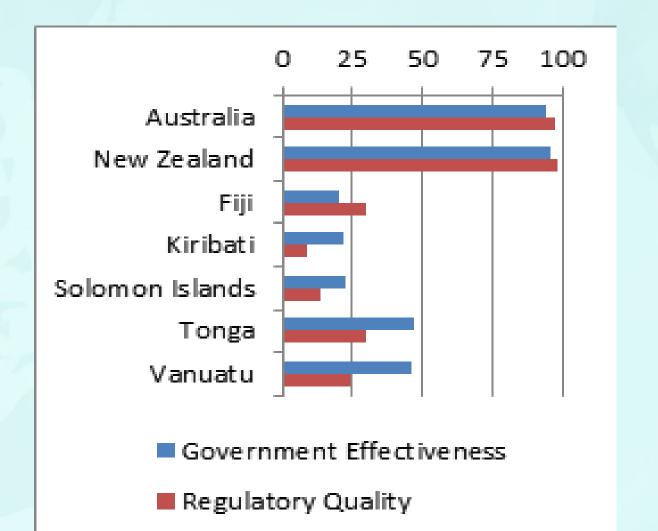
- · Who are the decision-makers?
- How are decisions made?

Governance assessment

then

- What type and form of information is needed?
- How to deliver this info?

A challenge: Governments – poor regulatory quality and government effectiveness (and \$\$)

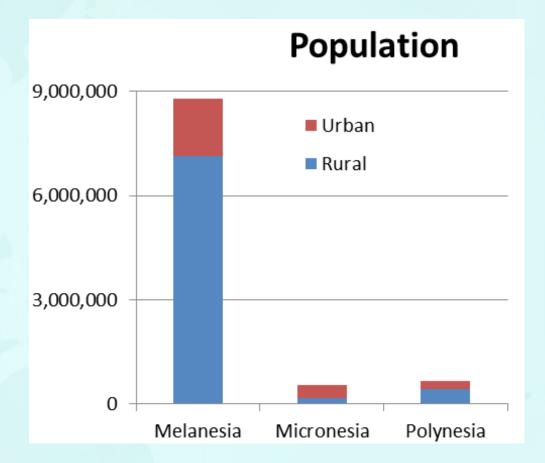


FISHERIES, AQUACULTURE AND MARINE ECOSYSTEMS / PÊCHE, AQUACULTURE ET ÉCOSYSTÈMES MARINS Low government expenditure on coastal fisheries management

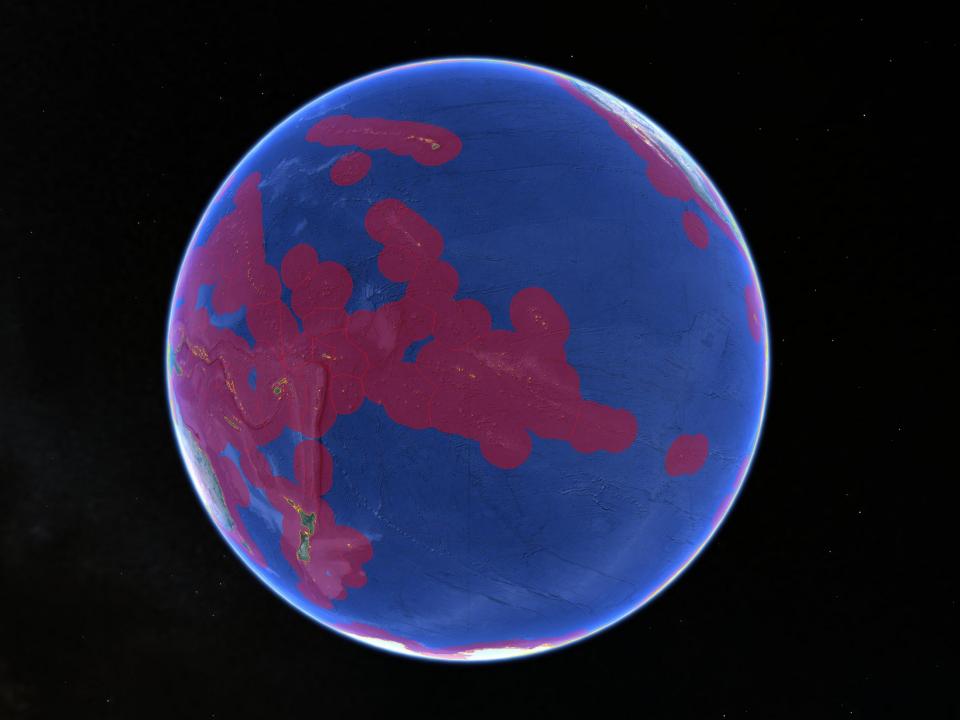
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Sources: Report and analysis Govan 2013 using value data Gillett 2009 and budget data Fisheries Departments 2012

FISHERIES, AQUACULTURE AND MARINE ECOSYSTEMS / PÊCHE, AQUACULTURE ET ÉCOSYSTÈMES MARINS Pacific Island population

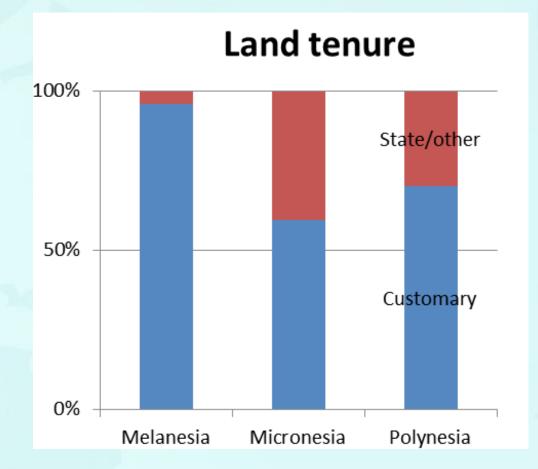


(SPC 2011)



FISHERIES, AQUACHTURE PLOTMARINE COSYSTEMS PÊCHE, AQUACULTURE ET ÉCOSYSTÈMES MARINS Pacific Island land tenure

Marine tenure follows similar patterns



(Ausaid 2008)



So...

• Who are the decision-makers?

Communities and fishers – local management

• How are decisions made?

Locally more than by central government

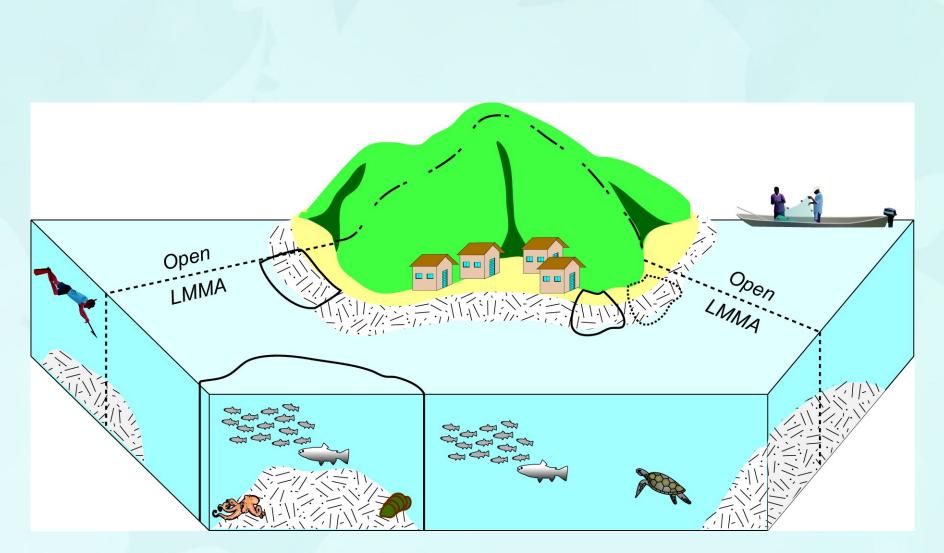
• What type and form of information?

Problem/solutions for local priorities i.e. livelihoods, through local adaptive management

Tarawa, Kiribati

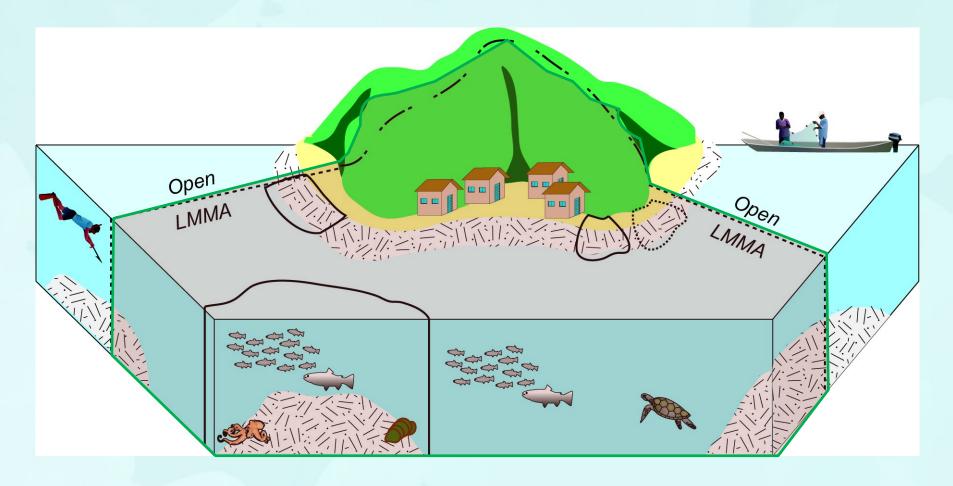
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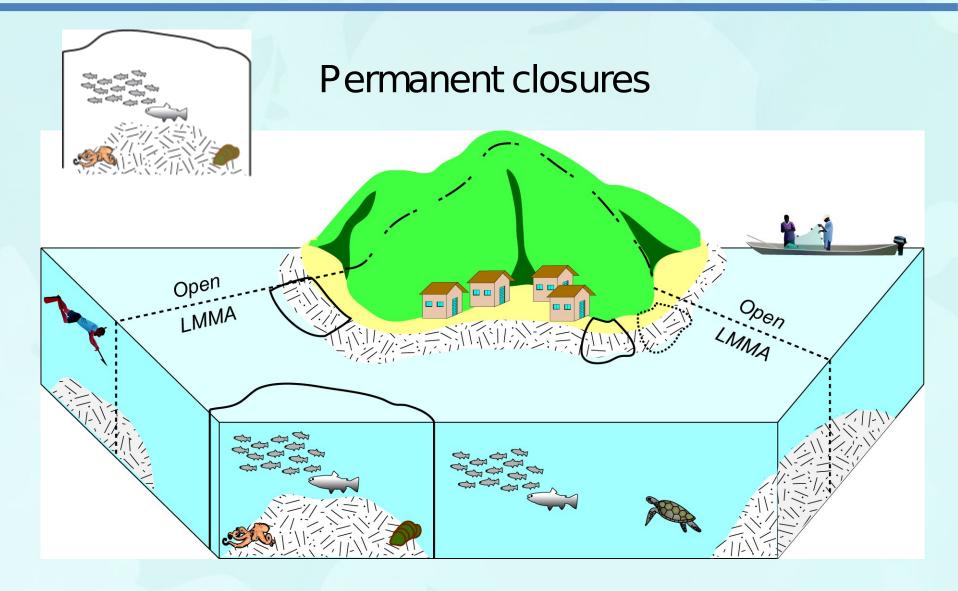
FISHERIES, AQUACULTURE AND MARINE ECOSYSTEMS / PÊCHE, AQUACULTURE ET ÉCOSYSTÈMES MARINS Locally Managed Marine Areas - LMMAs

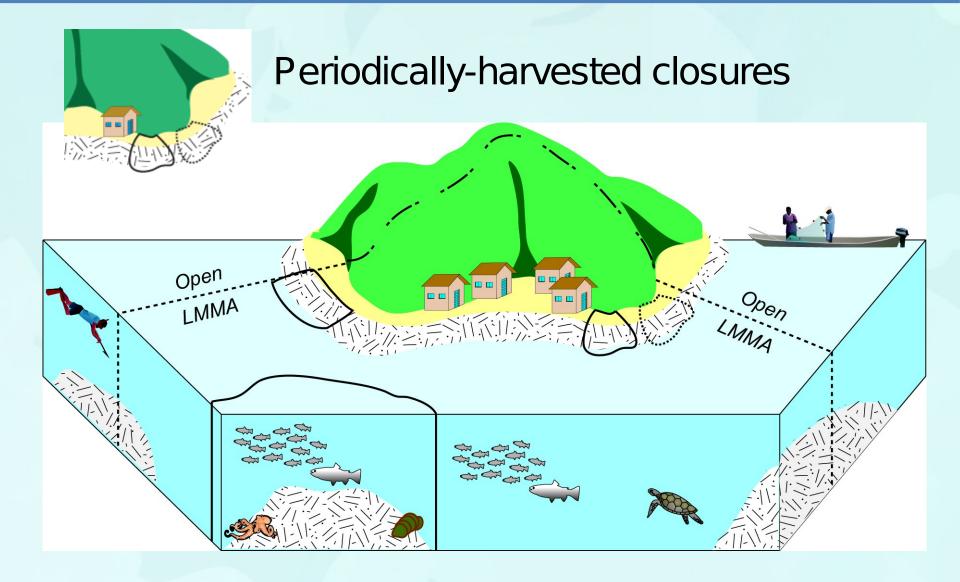


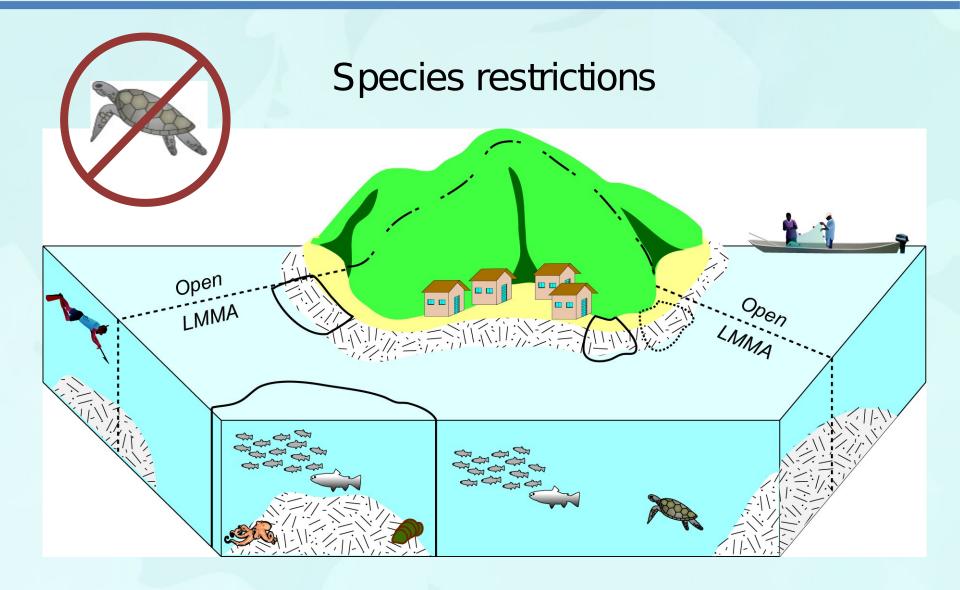
Jupiter et al. 2014 Pacific Conservation Biology

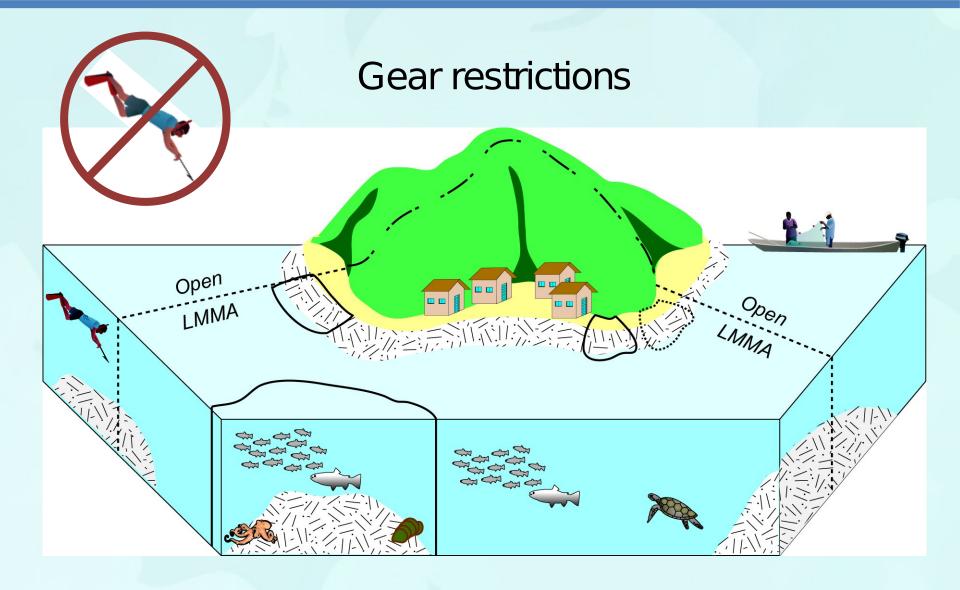
Land, watershed, ridge to reef actions

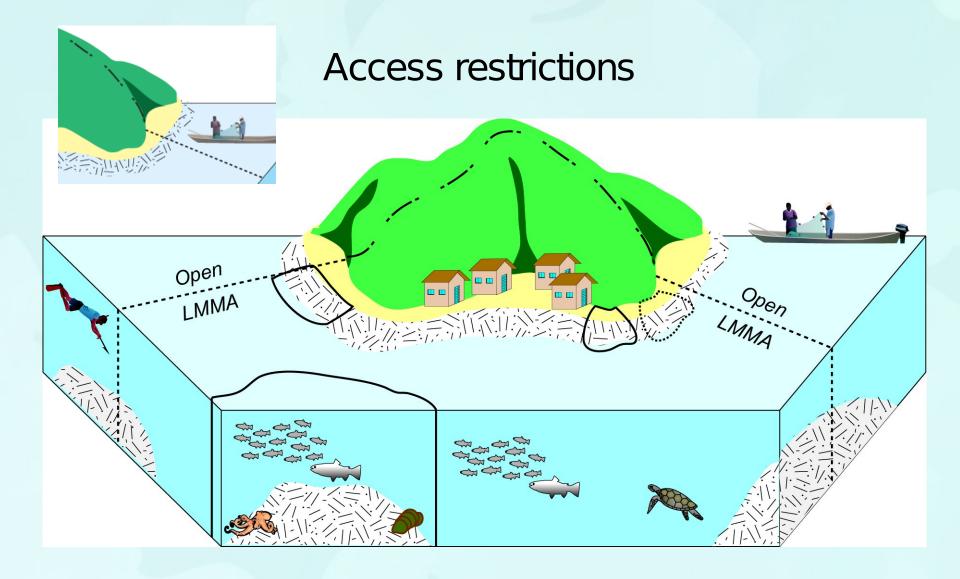












FISHERIES, Community "adaptive management"



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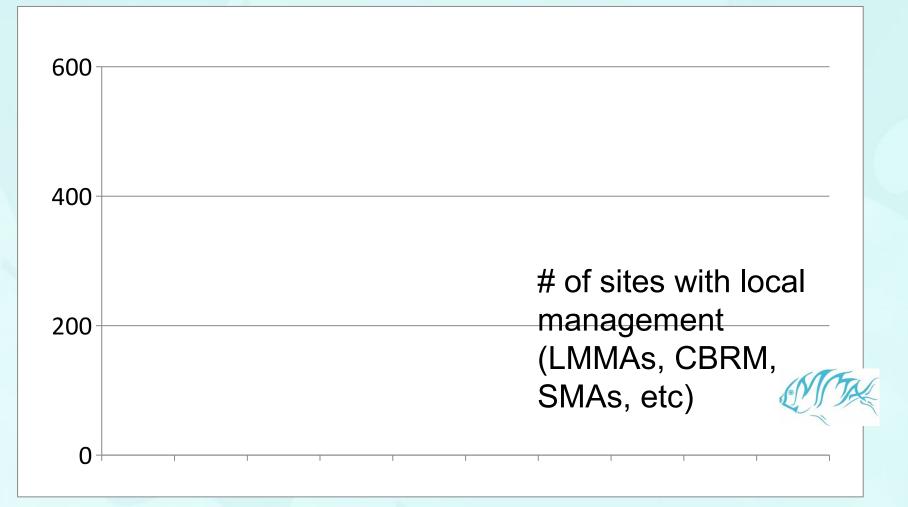
Modern approaches -Signing management

plan

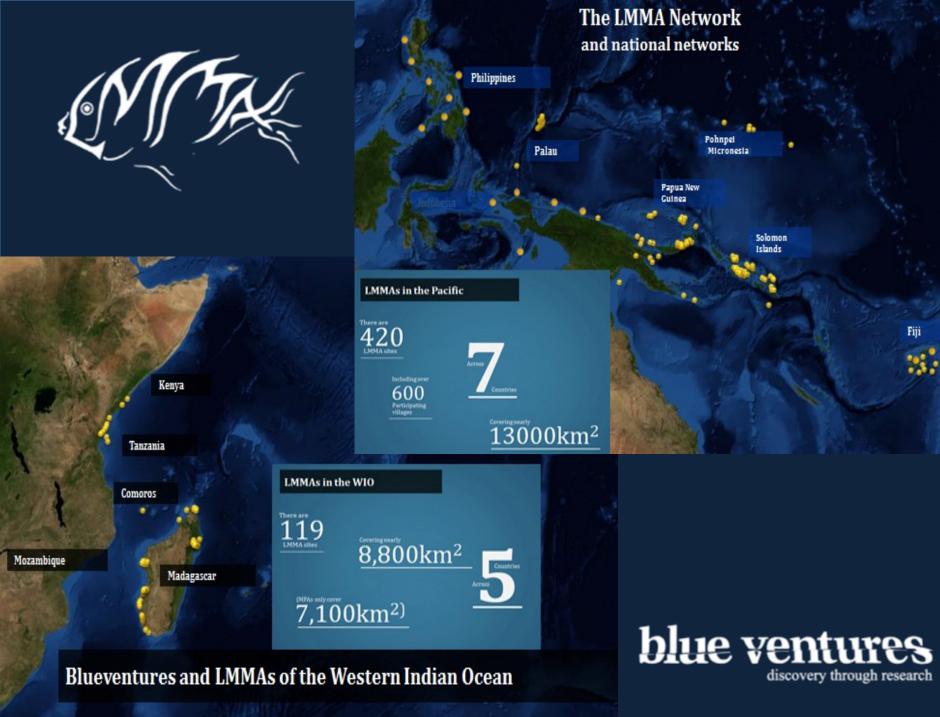
And customary approaches - closing tabu with a pig killing

Vanuatu, Efate Q T. Obed

Rapid growth in the South Pacific



Source: LMMA Network and Govan et al 2009

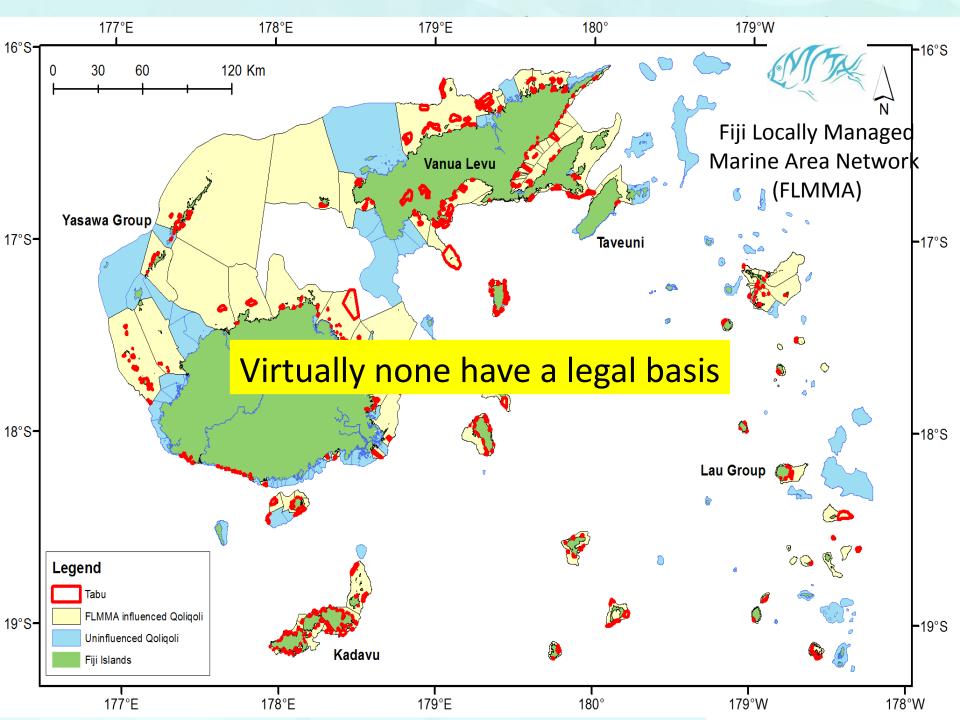


Reasons for rapid uptake

- Supporting multiple community aspirations (e.g. livelihoods, securing tenure)
- In line with historical / traditional approach (tabus)
- Opportunistic use of initiatives and windows science needs to be available at short notice
 - Use of social networks traditional and new at district, provincial, national and regional scales

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Solomon Islands Coastal CBRM sites 2010

Solomon Islands Coastal CBRM sites 2010 But 1000s of villages to go!

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The big challenges

- Reaching all the communities that would benefit from sustainable resource management support
- Forming and sustaining nationally useful systems of resource management and resilience
- Interference from the MPA mindset i.e. achieving 10% coverage is success?

Looks good.....?

450

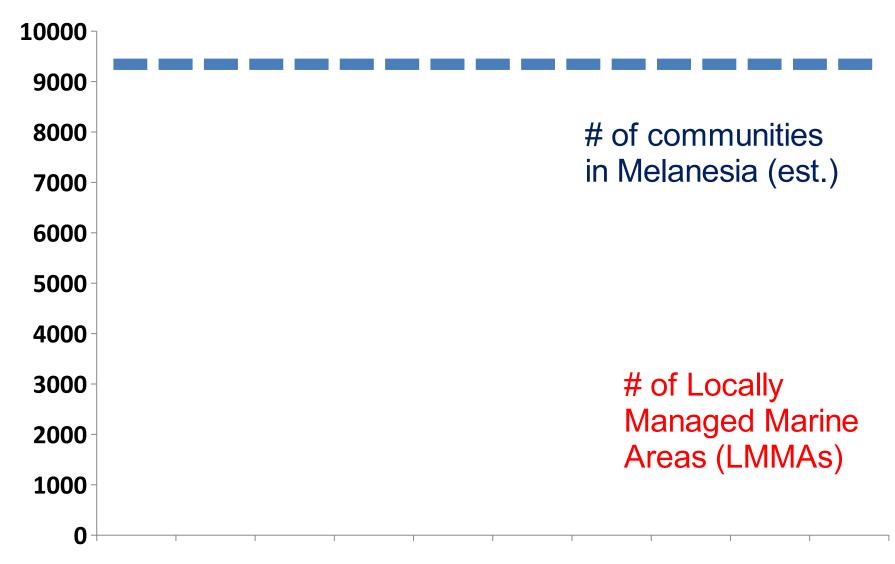
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- 300 -

Source: LMMA Network

But... a long long way to go





Why? LMMA has promoted

policy...

- Regional and national policies swung towards community-based and co-management approaches
- But... almost no fisheries departments' have changed structure or functions
- NGOs have (unwittingly) usurped the public service delivery roles of government...

 the models piloted are not usually appropriate for government adoption

FISHERIES, AQUACULTURE AND MARINE ECOSYSTEMS / PÊCHE, AQUACULTURE ET ÉCOSYSTÈMES MARINS Why? Approaches are too expensive



Country	Number of coastal villages		
	and settlements		
Fiji	770 - 850		
PNG	3,600 - 4,300		
Solomon Islands	3 - 4,000		
Vanuatu	550 - 1,400		



Example costs for a Solomon Islands LMMA

Main output: Information for community decision-makers (10-15%) Main costs: travel and personnel / time (50%)

Govan et al. 2009



Ways forward

- Improve quality and targeting of information
- Understand better the triggers of community management
- Develop more strategic approaches appropriate for govs including use of mass media
- Government service delivery to reflect decentralized and "extension" approaches



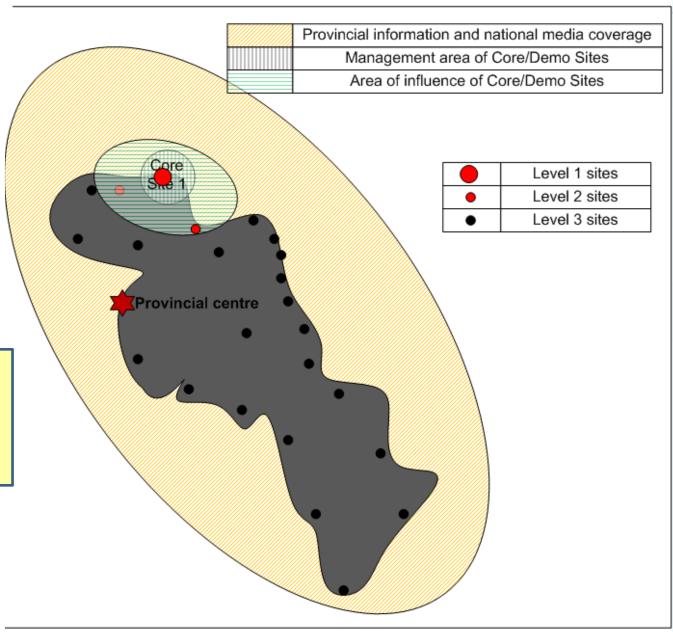
Guide and information sheets for fishing communities

- Produced by the Secretariat of the Pacific Community in collaboration with the LMMA Network.
- Polled network members and associates on priority species for communities
- · Reviewed draft sheets
- Distribution to communities and community partners



Strategies

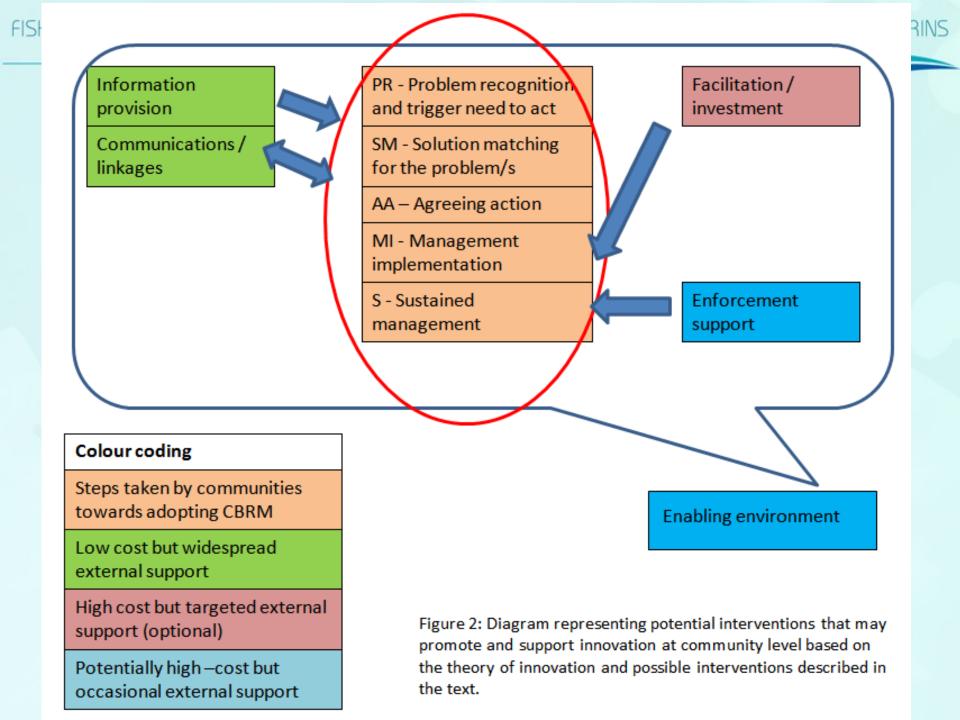
- Decentralized
- Concentrate on information provision and sharing
 - Integration e.g. disaster, fisheries, agric.
- Strategize use of scarce fuel and personnel

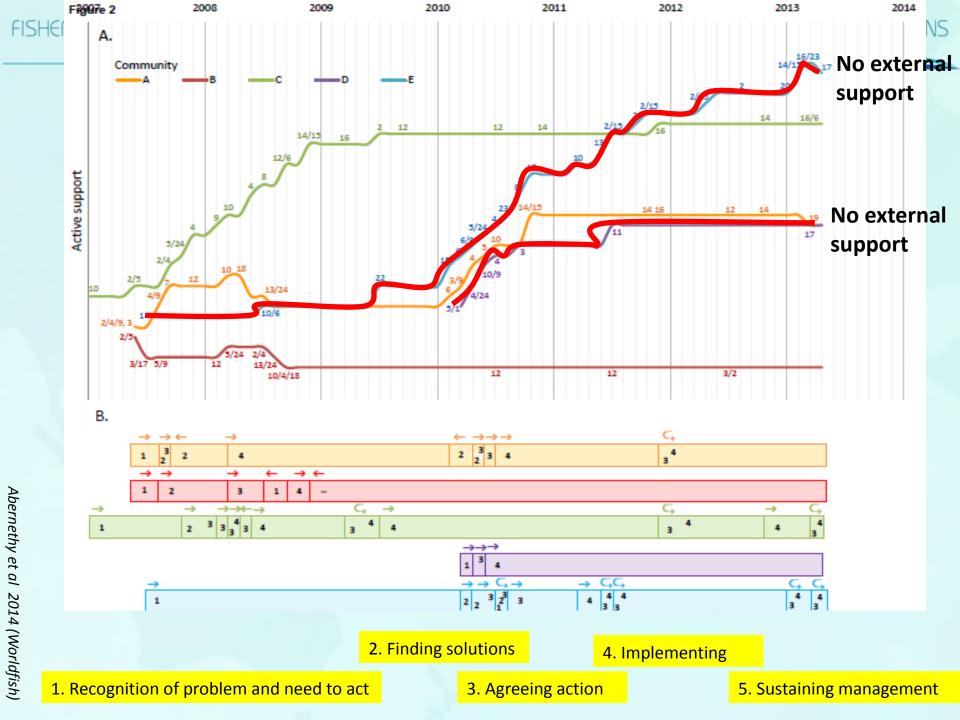


Better understand the way

communities untake innovation

Rogers 1962	Abernethy et al. (2014)	Govan & Bennett 2014	Notes
Agenda setting	Problem and need to act recognized	Problem recognition (PR)	
Matching	Selecting a potential solution/s for the problem	Solution matching (SM)	
Redefining/ restructuring	The solution/s are developed and refined into agreed actions or rules	Agreeing action (AA)	Results in agreed course of action, maybe rules, but only sometimes a documented plan
Clarifying	Actions or rules are implemented and progress observed, modified or improved if necessary	Management implementation (MI)	Trying out the actions / management
Routinizing	A more or less stable ongoing adaptive management	Sustained management (S)	Adaptive management or sustained rules or modified behaviour







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- Melanesian Spearhead Group Inshore Fisheries Working Group 2013. Roadmap for Inshore Fisheries Management in Solomon Islands, Fiji, PNG, New Caledonia and Vanuatu. With Ian Cartwritght facilitated and drafted Roadmap text with Fisheries Departments and SPC. <u>http://bit.ly/1jT1sjT</u>