



Pacific
Community
Communauté
du Pacifique

Monitoring, evaluation and adaptation

Suivi, évaluation et adaptation

Increasing challenges: Fiji, Tonga,
Chile....





Le case de Verata, Fidji



VERATAVOU

“NA KEDRA SASALU TAWA MUDU
NA NODA KAWA”

Verata tikina





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Suivi



- Formation de la population aux techniques de suivi
- Mise en place du plan de suivi
 - Biologique
 - Socio-economique



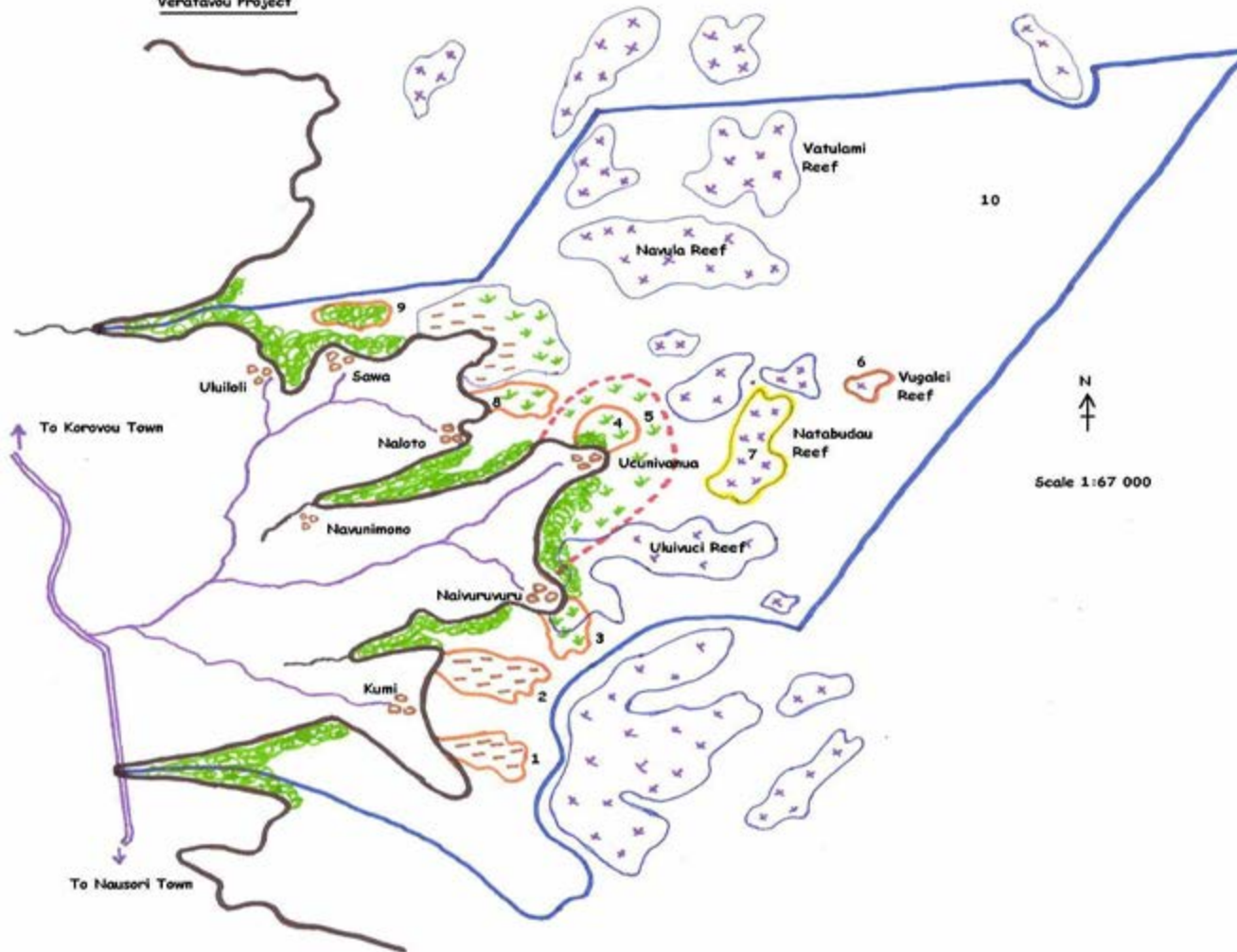
Mesure de la taille



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Data: Tikina
Verata and USP



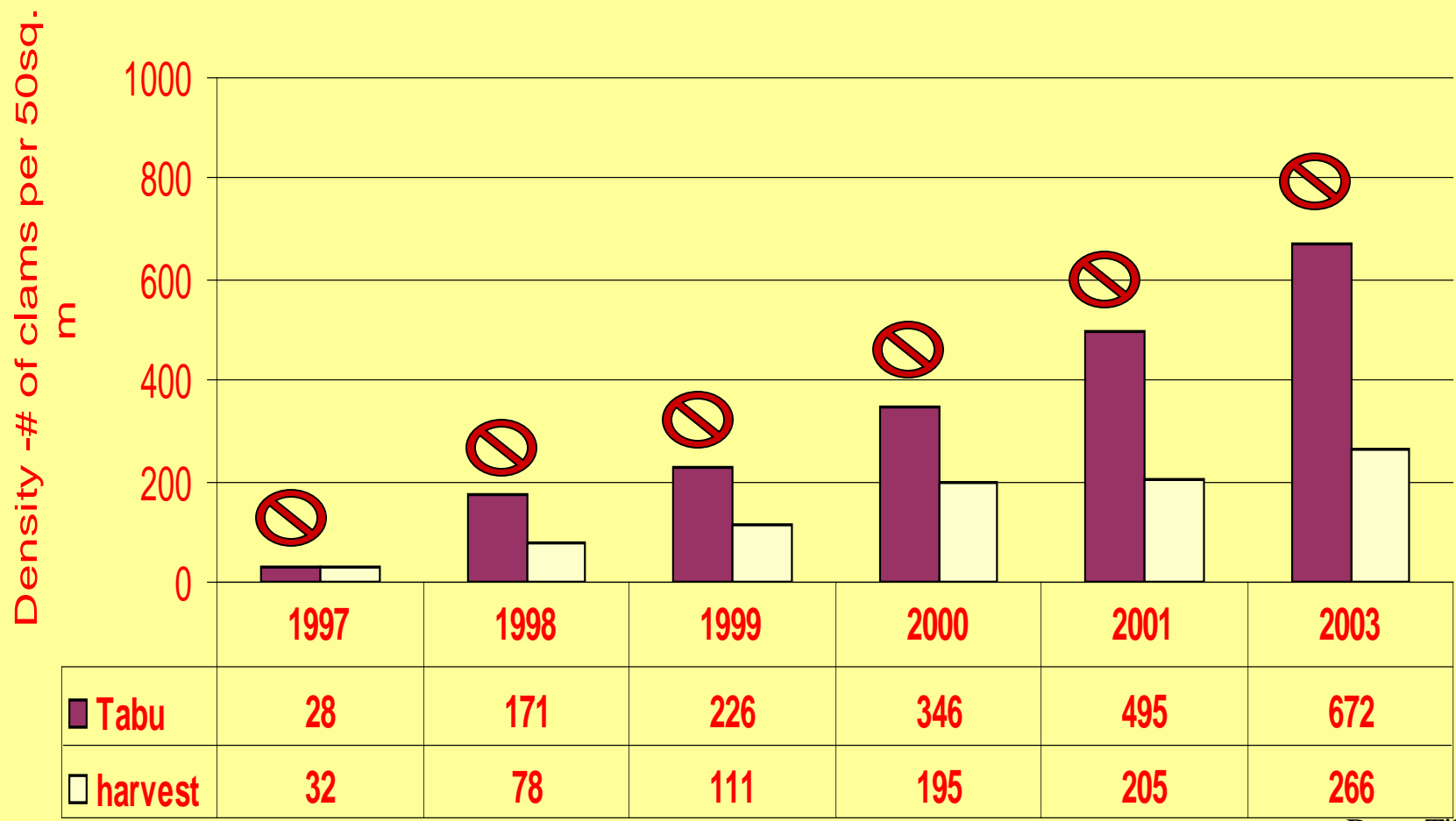
KEY FOR TOOL TYPES

-  - Full Reserve
-  - Species Specific
-  - Effort/Gear Restriction (Verata Qaliqali)
-  - Proposed Giant Clam Restocking Site

-  - Mangrove Forests
-  - Seagrassbeds
-  - Coral Reefs
-  - Mudflats
-  - Villages
-  - Main Road
-  - Feeder Road

Note: All managed areas are not more than 30 minutes walk from the nearest population center (villages).
 Refer to Table for more details on each site.

Survey results from Ucunivanua village-permanent tabu area

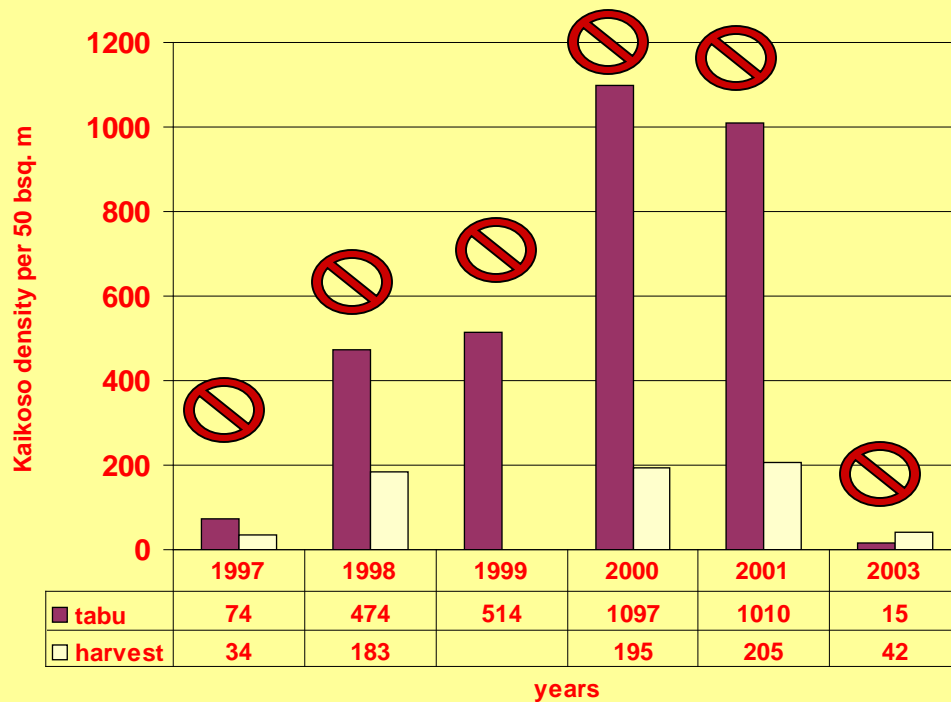


Annual monitoring

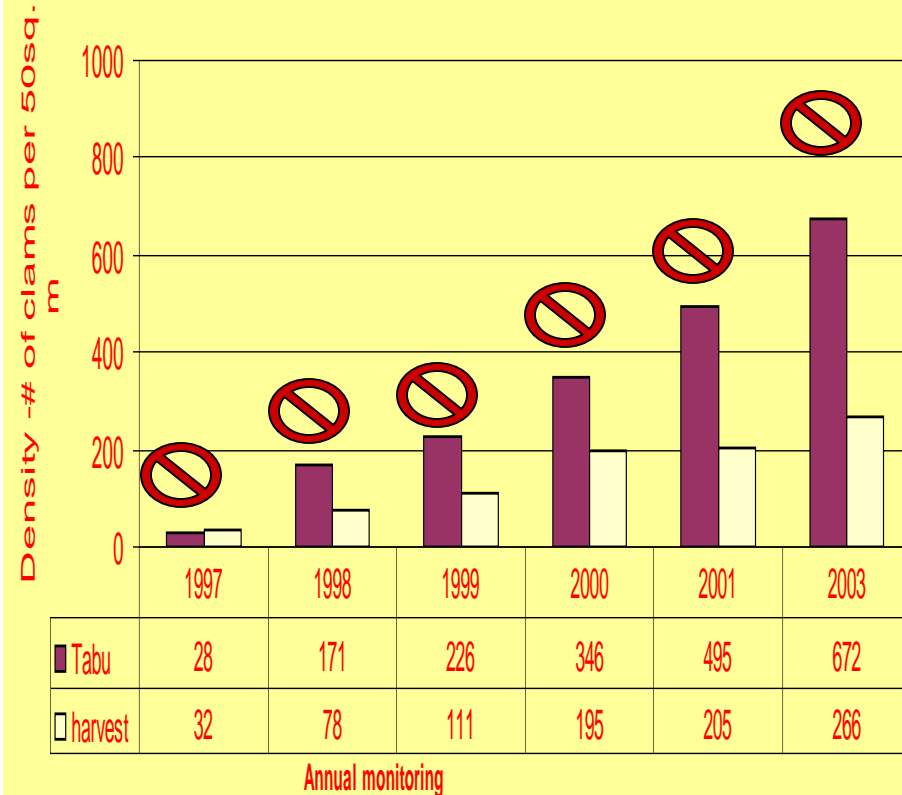
Data: Tikina Verata and USP

Suivi effectué par les locaux – comparaison de réserves permanentes et tournantes

Survey results from Kumi - rotational harvest



Survey results from Ucunivanua village-permanent tabu area



Monitoring expanded to all LMMA sites

- Learning framework 70+ factors
- Fish (UVCs)
- Socio-economic and governance
- Many trainings and investment

BUT!

- “It is unlikely that the data as they are now can be reliably used to detect effects of management on the marine species being counted.” [Kaly 2008]
- Monitoring extremely expensive compared to other activities
- Information not useful for intended purposes e.g. community adaptive management, stock assessment, scientific (Govan et al. 2011)

Fiji LMMA 3 Levels of monitoring

- 1) Basic Community monitoring** (checklist based on anecdotal evidence) = ALL COMMUNITIES
- 2) Advanced Community monitoring** (actual data collection) = Core sites / learning sites by communities supported by partners (NGOs)
- 3) Partner monitoring** (intensive research) = Research sites – carried out by partners (NGOs)

Interviewer:

Interviewee:

Village/District/Province:



#		Response	
TABU			
1	<u>Tabu</u> exists	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2	Any opening of <u>tabu</u> since establishment?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
3	Any shift of <u>tabu</u> ?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
4	Restocking and rehabilitation?: mangrove <input type="checkbox"/> , clam <input type="checkbox"/> , coral <input type="checkbox"/> , giant clam <input type="checkbox"/> , other <input type="checkbox"/>		
MANAGEMENT			
GOVERNANCE AND MANAGEMENT			
5	Committee in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
6	Frequency of Meetings?	<input type="checkbox"/> monthly / <input type="checkbox"/> Quarter / <input type="checkbox"/> Biannual / <input type="checkbox"/> Annual	
7	Is the committee transparent and accountable in its work: <ul style="list-style-type: none"> • to the committee members and other village committees, • Record and documentation of meeting proceeds • Communication of proceeds to the village members 	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No
Management Plan Review			
8	Does a management plan exist?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
9	Has the plan been reviewed in the past 12 months?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
10	Did this monitoring took place last year: <ol style="list-style-type: none"> 1. UVC 2. Catch per unit Effort 3. Socioeconomic 	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No
Compliance and Enforcement			
11	Does the initiative bring about more conflict?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
12	Is poaching in the <u>tabu</u> happeing by : <ol style="list-style-type: none"> 1). In the village 2). External 	<input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No



RESULTS

Biological/ecological

17	How has the abundance and sizes of fish and invertebrates changes over the last year?	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> No change
18	Any rare, uncommon or endemic marine species identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Socio-economic

19	How has the fishing trip duration changed?	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> No change
20	What is the status of income changed since initiation of management?	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> No change
21	How have the sources of marine food changed for each household?	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> No change
22	How has community responded in support of a healthy and clean village?	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> No change



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Strategic monitoring

Fisheries agencies and communities have to distribute very few \$\$\$ over duties such as:

- Awareness and information
- Enforcement
- Administration
- Monitoring

When working with 100s of communities would a simple questionnaire / perception report be adequate? Why?



Les services des peches et les communqutes doivent repartir leur budget/effort sur des taches telles que:

- Sensibilisation et information
- Mise en application
- Gestion administrative
- Suivi

Quand des centaines de sites sont concernes, un simple rapport issu d'un questionnaire ou des perceptions serait-il approprié?





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