



Design and implementation of rahui network in Tahiti Peninsula

Tahiti, France

Pauline FABRE, Ewen MORIN, Marguerite TAIARUI







1. Context- what?







Methodological assistance to implement locally managed area for natural resource in Tahiti peninsula

- •Our approach is:
- With and for communities across Taiarapu
- Collaborative action with local and regional institutions
- Associate local and scientific knowledge







1. Context- who?







The stakeholders:

- Administratives authorities, governemental directions (environment, culture, fisheries)
- Lagoon fishermen, farmers, aquaculture activities, tourism activities, local experts (tahu'a)
- Local associations, organizations, traditional activities





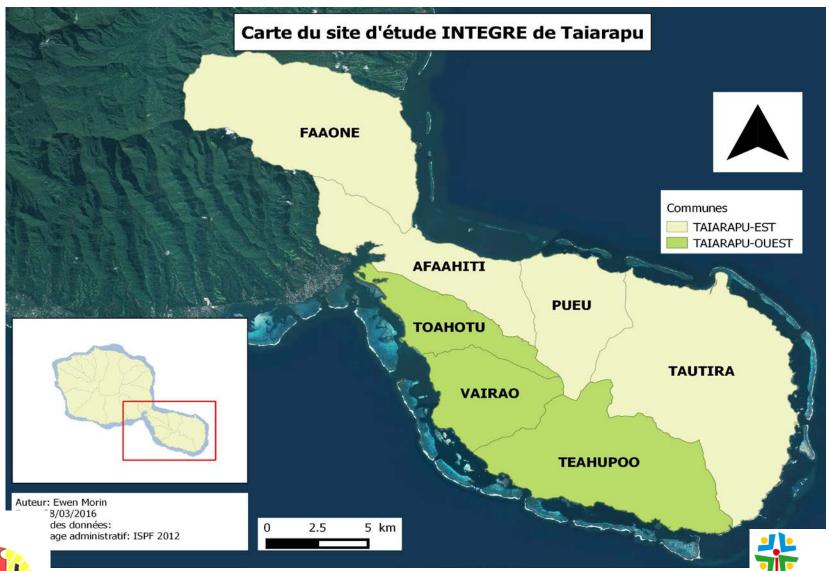


1. Context – where?





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1. Context – where?





One rahui implemented today







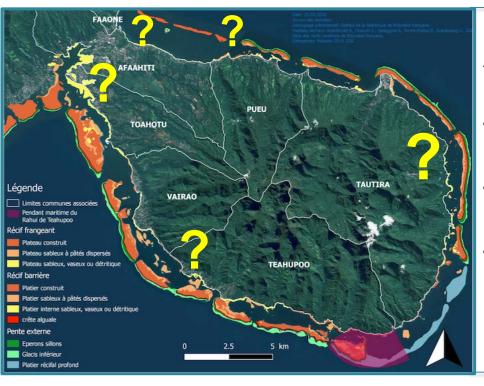


1. Context – where?





> Several *rahui* project across Tahiti peninsula



Anticipated outcomes:

- Ecological connectivity
- Local issues
- Cultural identity and social equity in resource management

>> Opportunities of local communities to decide of management committee, rules and boundaries





2. Methods





- Organizing work with local communities
- Interviews: place's name, history, local knowledge, economic activities, management attempts, priorities...





Interview name of lagoon places - April 2015





2. Methods







• Fieldwork observations



Visit of possible *rahui* by an experimented fisherman in Faaone - April 2017



Aoma Valley observations - January 2015







2. Methods





Concertation meetings with local communities



Meeting at Toahotu - January 2015



Meeting with fishermen of Fenua Aihere - March 2017











~ Some of our work ~

- Local name of places in valleys and lagoon of Tahiti peninsula
- Ecological monitoring of lagoon and identification of juveniles nursery (July, August 2016, January 2017)
- Fishing Surveys across Taiarapu (from July to November 2016)











Local names and values of places (land/seascape)

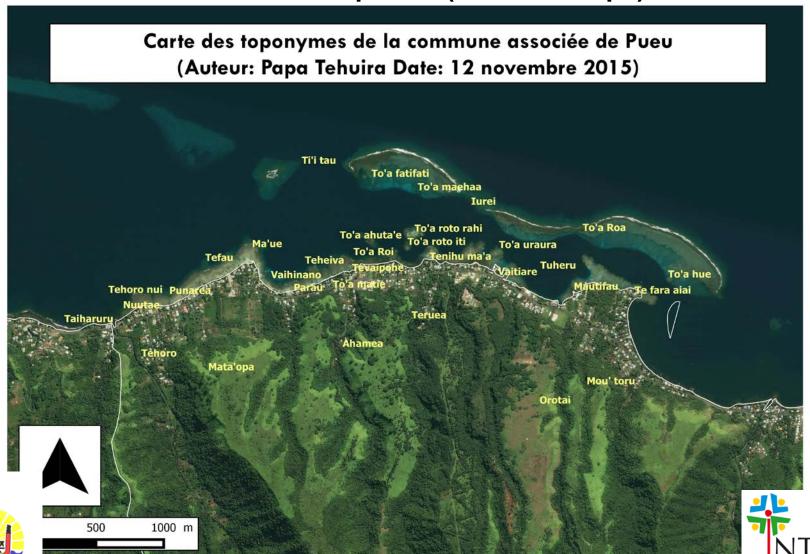








Local names and values of places (land/seascape)

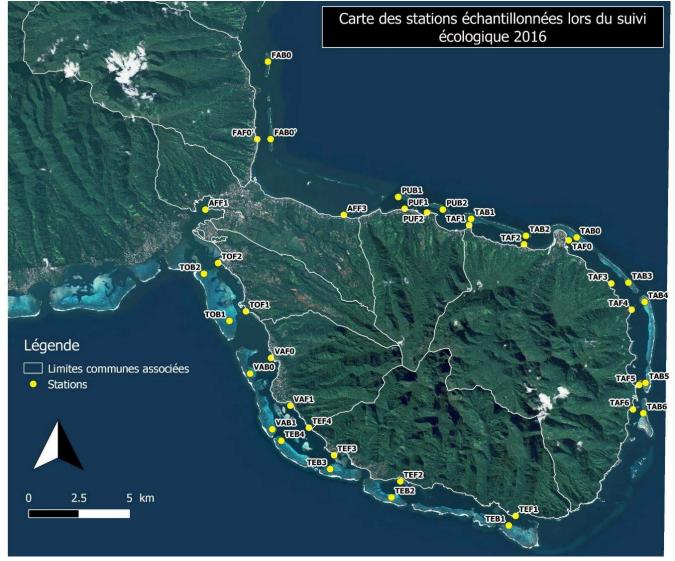








Monitoring of fishes, benthos and substrat











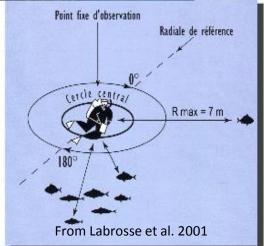


How?

- Substrate: 25m Point-intercept-transects
- Invertebrates: 25 X 2m Belt-transects

- Commercial fishes: Stationary-point-count technique
- 3 replicates for each technique





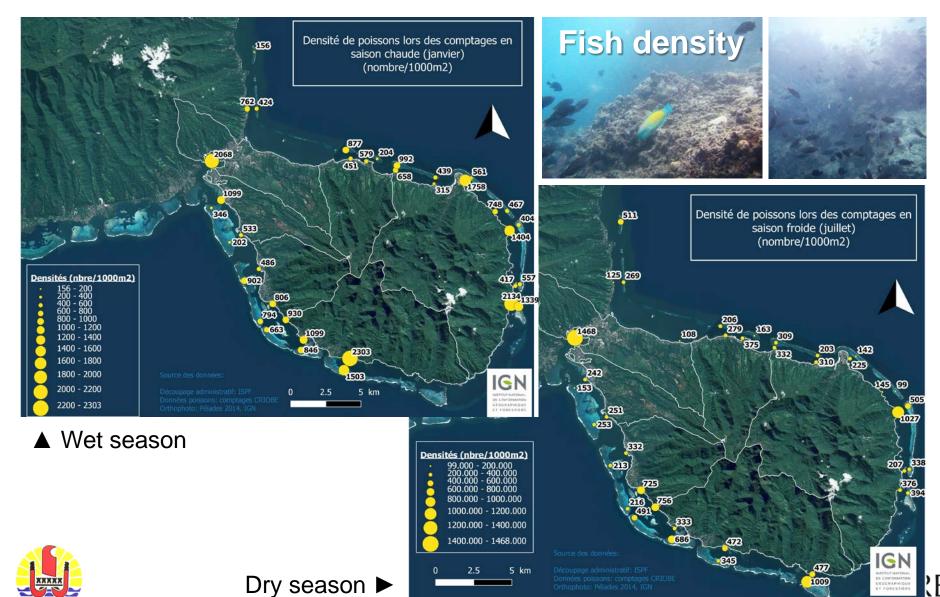








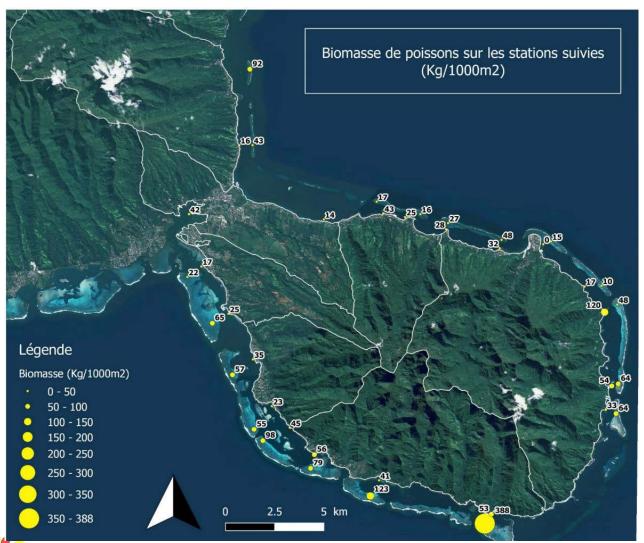




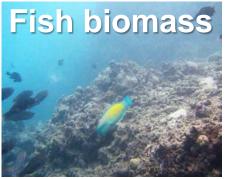




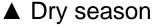




















~ Fishing surveys ~

- Quota sampling using the latest population & housing census (ISPF, 2012)
- Semi-structured questionnaire
 - Part 1 Socio-economic information
 - Part 2 Fishing activity
 - ▶ Part 3 Management measures
 - > Total of 30 questions
- 96 local fishers interviewed in July-October 2016
 - > 9 women and 87 men
 - ➤ Age range: 19 83



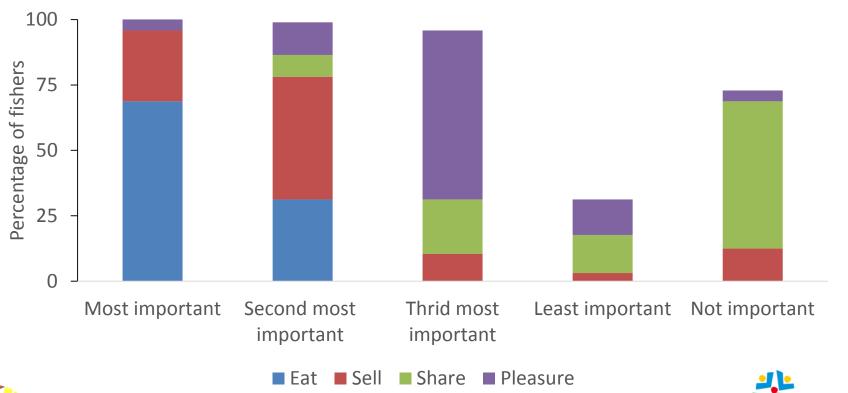








Fishing = highly important in fishers' livelihood





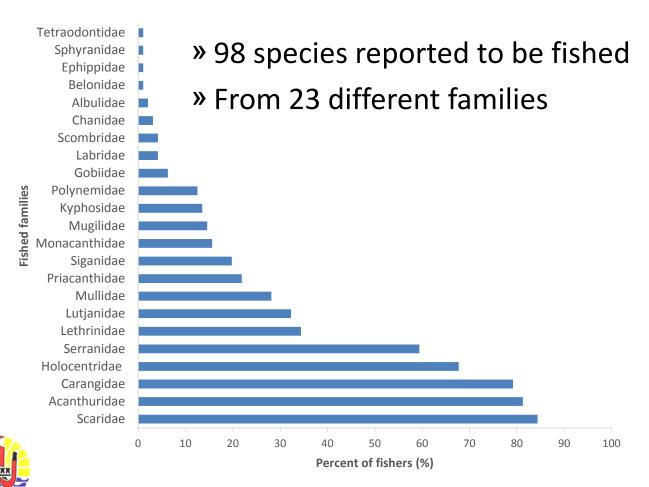








Coastal fishery = very diverse





















- Less fish
- 2) Fish go deeper and further away
- 3) Species composition changed

Attributed these changes to:

- 1) Overfishing
- 2) Fishing small individuals
- 3) Pollution
- 4) Cyclone
- 5) Climate change
- 6) Low recruitment



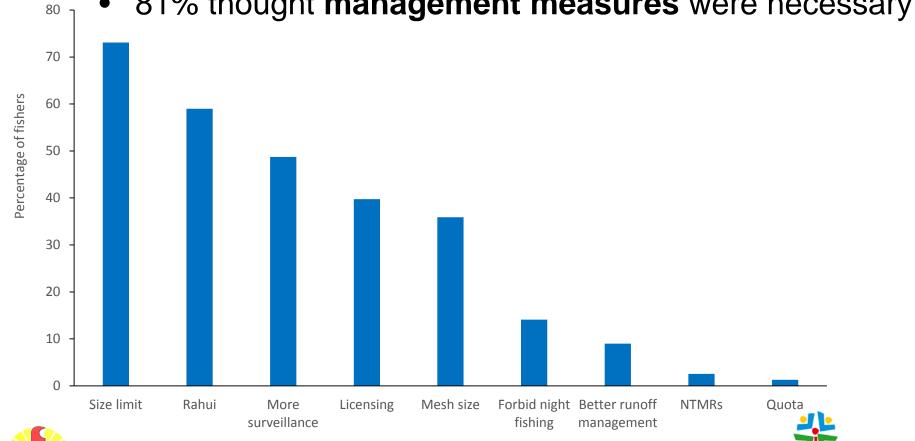




















~ Further work ~

- Raise awareness (e.g. explain why size limits are important)
- Conduct a catch-per-unit-effort survey over at least one full-year
 - Quantify the coastal fishery production and local fishers' dependency
 - Investigate the seasonality of the fishery







4. Assessment





- First time of such a work at Tahiti peninsula scale.
- Ongoing studies and support on local socioeconomic profiles, rahui rights, hybrid governance to help the design and implementation.
- To bring meaningful information with and for local communities.
- Decision of rahui belongs to local stakeholders.



