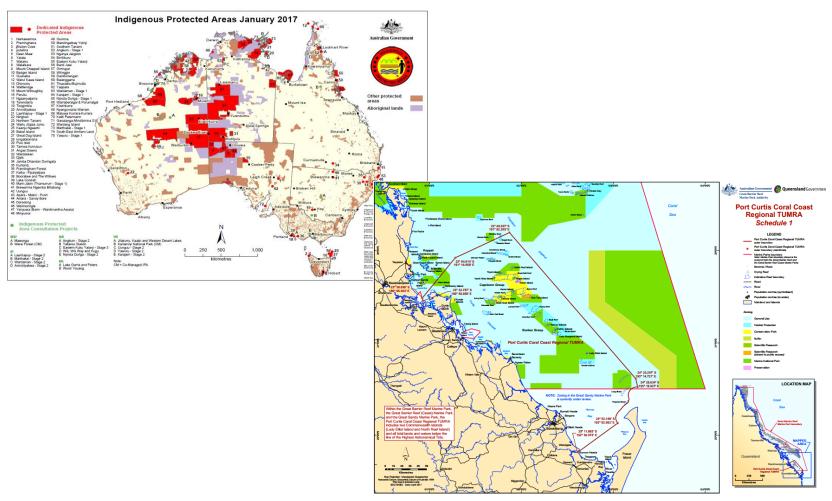


# Traditional owners in southern Great Barrier Reef region, Australia



# Purpose: to understand Indigenous measures of effectiveness

- 1. Indigenous elders are co-researchers
- 2. Questionnaire developed
- 3. Co-researchers lead the interviews





Directions: Please make sure each interviewee is (1) given an information sheet to keep, (2) signs a consent form, and (3) provides basic data for the interview sheet. Location: Gladstone, Bundaberg, Queensland There are five key areas we want to evolore with interviewees in the semi-structure interviews. 6. General connection to Port Curtis Coral Coast Region Specific connection to natural environment/marine/coastal area 8. Health of environment/country, now and in past 9. Looking after country, activities and roles 10. Social and environmental benefits/costs of land and sea management Note for interviewer: For each of these areas, this guide provides some open-ended ques you might use to encourage discussion. An interview can be brief (10 minutes) or up to an hour or more depending on the enthusiasm of the interviewee. While we want to ensure each participant responds to all five key areas, their story may weave between the different questions or just some of ☐ What is your relationship to this area? (cultural aspects or other) □ Do you live here? What community or group do you belong to? Are there things here that make it unique or different from other places? Are there particular places here that are important to you and your family? Where are they Q2. Connection to the natural environment and Country (ask these questions if different from the discussion above) Are there things you particularly like/value about the environment here? (fishing, turtles, hunting, bush foods, recreation, etc.) Please tell me about your relationship to the <u>coastal/marine area</u> in particular. How do you associate with the coastal area? Do you feel connected to it, and how? O's Health of Environment /Country ☐ What do you think about the natural environment/landscape in the PCCC? What is the current state or health of your land and sea country?
What changes have you noticed about this region over your lifetime? (open-ended, but help them to determine a reference of time if possible; since childhood, in past 2 years/5



- the Great Barrier Reef, the Great Sandy Marine Park, Mon Repos Conservation Park, etc.)

  What do you know or think about the protected areas? Are they important, and why? Are
- Do you know that there is a PCCC Strategic Plan? What do you think of the following statement?

The PCCC Strategic Plan 2012-2030, entitled "Investing in our shared Future: United in Focus, spirit, Culture and identity" states that "Our cultural heritage, land, see and environment are our most volved, respected and priced passessions and each need to be afforded the utmost respect, care and attention".

#### Q5. Social and environmental benefits/costs of land and sea management

- What benefits or value does the natural environment/Healthy Country grouping to you?
   (sometimes these are called ecosystem services, like freshwater, clean air, food, materials)
- (sometimes these are called ecosystem services, like fresh water, clean air, food, materials)

  What benefits or values does managing or looking after Country give to you? To your family?
- To your community?

  What are some of the challenees or costs associated with looking after Country?
- If you and your family had an expanded role in management, what would be the costs of
- this? The benefits?
- D What are some of the challenges or costs associated with the protected areas?

#### there anything else the participant wanted to talk about?

Thank you for taking the time to share! You can find information about the project and use of information on the information sheet.

## Gidarjil Immersion Weekend







## "What does country look like to you?"



# Conducting interviews









# Stories of changes



# Gidarjil Rangers monitoring turtles

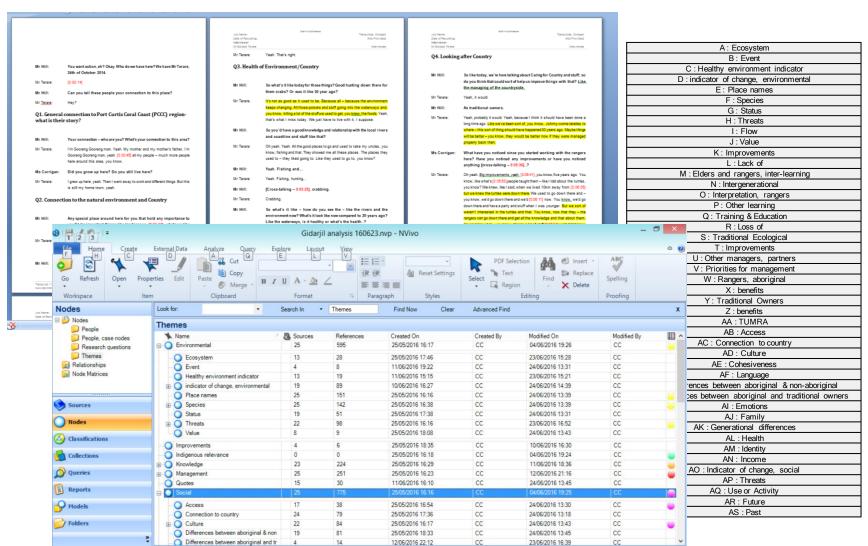




#### Changes to environment over time

- It's gone. There's no more swamp. You know, there's nothing there. You drive out there now and it's just all houses. There's nothing there at all. (female, age in 70s)
- They're bulldozing everything. (female, age in 60s)
- The homes that our families lived in and the little riverlet and the lagoon where I swam in; it doesn't exist anymore. It's now all built up area (female, age in 60s)
- We going 50 years ago, you know, you get that river and you catch a good feed. But today, it's flat out catching anything. (male, age 80)
- There's a lot of dams and that going on the Burnett. You know, they're sort of mucking the flow of the river up. (male, age 82)
- You get all these poisons and fertilisers and everything going into the waterways and killing all the stuff off. Kill all the vegetation off that the fish and crabs and all that normally feed on. It's a lot worse now than what it was back in our day. (male, age 66)
- + Reckon it's getting better, especially for wildlife because of the technology available (eg for turtle monitoring etc) (male, 20s, ranger)
- + After the 2013 floods, It's beautiful. It's a lovely river. It is, it's lovely and green. (female, age 65)
- + I'm hoping that one day I can come back here when I get older and it's still going to be in the same pristine state like it was growing up (female, age 27)

# Coding transcripts for analysis



& CC 66 Items

Google Chrome

#### **Environmental and Social indicators**

Indicator Doma	in	Elders (15)	Youth (10)	Total	% of total	Avg # indicator references per elder	Avg # indicator references per youth
Environmental	+	40	11	51	10.6	2.7	1.1
	-	93	32	125	26.0	6.2	3.2
Social	+	104	64	168	34.9	6.9	6.4
	-	93	44	137	28.5	6.2	4.4
		330	151	481	100		
		Female (15)	Male (10)			Avg # indicator references per female	Avg # indicators references per male
Environmental	+	33	18	51	10.6	2.2	1.8
	-	75	50	125	26.0	5.0	5.0
Social	+	106	62	168	34.9	7.1	6.2
	-	88	49	137	28.5	5.9	4.9

# Positive and negative Indigenous social indicators

SDTelement	Negative Social Indicators					Positive Social Indicators			
	Total	%	Description	Total	%	Description			
Autonomy	24	17.9	Regards challenges in having a voice or involvement in decisions	35	20.7	Awareness that some progress has been made for being consulted with and included in broader society; having an Aboriginal corporation and strategic plan			
Competence	49	36.6	Concern about the youth generation and their lack of training, motivation, mental health issues	84	49.7	Value of existing knowledge; learning from or providing knowledge to other generations; Indigenous ranger training, activities, job; learning from elders and rangers			
Relatedness	61	45.5	Degraded country to country that affect relationships to it, such as fewer fish; environmental impacts from development; inability to access areas for traditional, subsistence or family reasons	50	29.6	Having a relationship with country, with family, or having memories of these connections; caring for country or gaining health from relating to country; belonging to country and community, identity			
Total	134			169					
				Proport indica futi	tors in	Rationale			
			Autonomy	21	60.0	Having recognition, ability to make decisions, and choice to be involved in future			
			Competence	12	14.3	Potential for Indigenous training opportunities, societal valuation of traditional knowledge			
			Relatedness	3	6.0	Future generations having ability and access to country			

## Resilience and Learning

- "You know, like how certain turtles, they come back every year like for 30 years, eh. It's amazing. They travel to the other side of the world nearly, you know, over to South America and that. Then they come back again. Who ever knew that?" (male, 60s).
- "And I just realised now, by living up there next to the rangers and living on country, it's been ... a great thing for me to be able to learn all this stuff again." (female, 60s).
- It's not only learning, it gives them that sense of pride too, and the skills, of knowing that they're caring for their country and they're putting things back in. (female, age in 70s)

## **Emergent** issues

- Significance of family and inter-generational relationships- passing knowledge forward/but also looking backward
- Significance of access to country/increased limitations---- for various reasons--- traditional use, subsistence, health, cultural importance, intrinsic connection
- Health of the environment--- signified by flow, unrestricted flow---knowledge of systems as well as species---- lack of flow
- Acknowledgement of change but also maintenance of "pristine" status or quality of country for future generations
- Indicators of change/ threats (built environment, development, youth learning, overfishing, etc)
- Variation in generational baseline knowledge of environment (older generation vs younger generation
- Negative impact on culture, connection, country, knowledge
- Sense of respect and obligation for each other and for the environment
- Value of Indigenous rangers

## Self-determination Theory

- from Ryan and Deci 2000
- Intrinsic (self-driven) motivation is facilitated by:
  - Autonomy- choice, acknowledgment of feelings, and opportunities for self direction
  - 2. Relatedness- connecting to others, being cared about, caring for
  - **3. Competence** having the capacity to complete an action, goal, process, etc