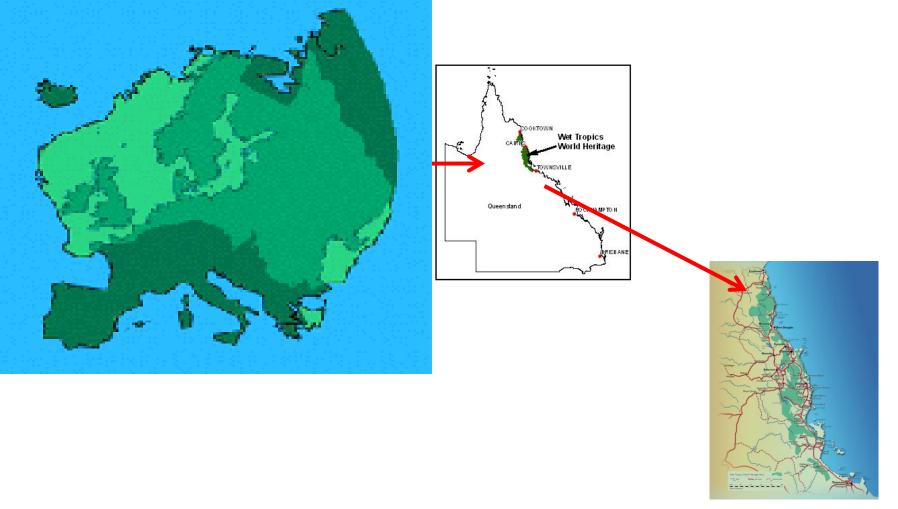
Application of TEK to examine the links between well-being of Aboriginal people and ES from the Tropical Rainforests in north Queensland

SGA presentation on the 27th of Nov 2012 by Kamaljit K. Sangha
James Cook University, Australia

Outline

- Background
- TEK in the Aboriginal Australian context
- How we applied TEK in the MA case study?
- Conclusions
- Questions?

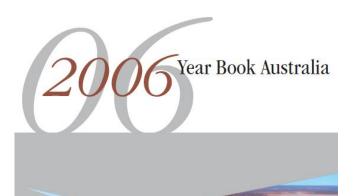
Beauty of tropical rainforests......





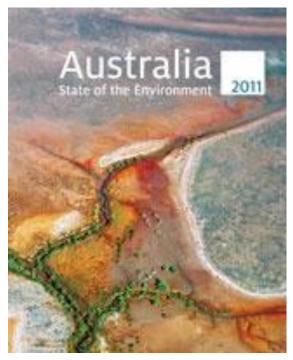


Background



A comprehensive source of information about Australia.





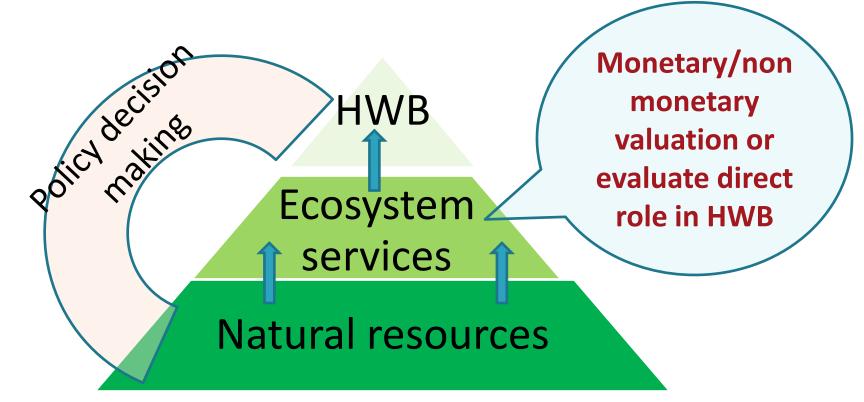




IS LIFE IN AUSTRALIA GETTING BETTER?

What am I doing here?

 ES and their LINKS to HWB, not just the status of ECOSYSTEMS



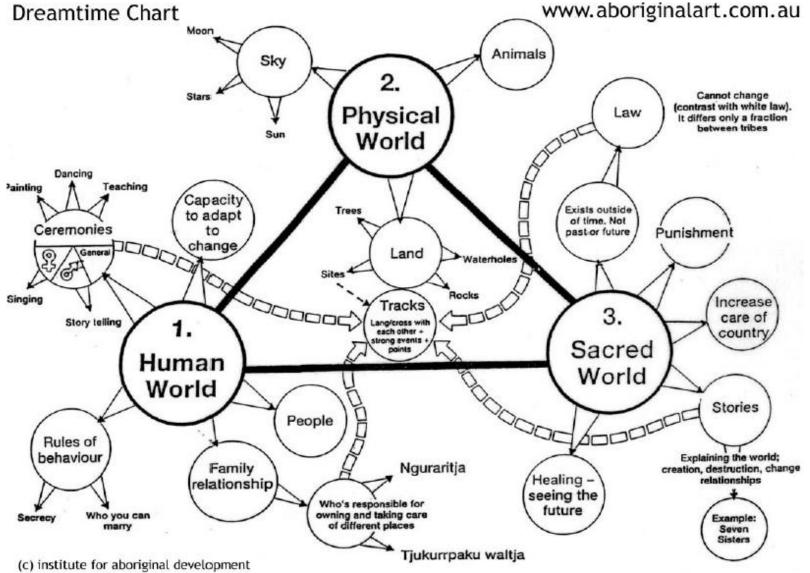
Background

	Aboriginal	Non-Aboriginal
Natural resources:		
Land	Related, Sacred	Ownership, Secular
Environment	Adapt to	Exploit
Other social values:		
Society	Unified	Diverse
Relationships	Extensive	Limited
Basic unit	Society	Individual
Reality	Spiritual	Material
Possessions	Share, Use	Acquisitive, Accumulate

(Source: Edwards 1988)

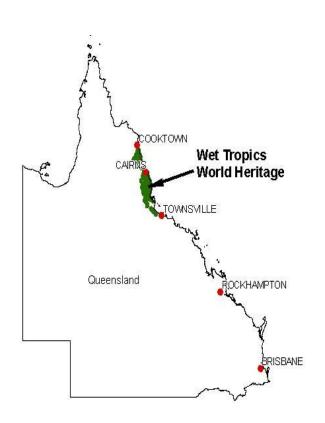
Interconnected physical, spiritual and human world





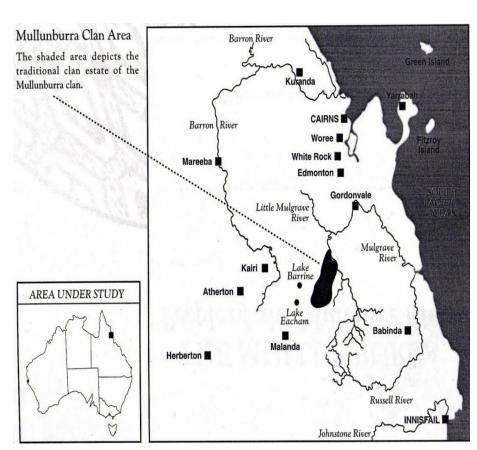
Wet Tropics: Case study

- The Wet Tropics World Heritage area (WTWHA) is recognised as a series of living cultural landscapes being the homelands of rainforest Aboriginal people (WTMA, 1998).
- People' lives, customs and beliefs are intricately entwined with the plants, animals, waterways and seasons of the tropical rainforests which have provided food, shelter, medicine and other numerous services since Aboriginal settlement over 40 000 years ago (Lee long, 1992).



Wet Tropics: Case study

- Indeed the entire region is imbued with cultural meaning and Aboriginal history, and can be described as an Aboriginal cultural landscape (Review Steering Committee 1998)
- Currently, there are a total of 18
 Aboriginal tribal groups
 representing around 50 clans in
 the WTWHA, with
 approximately 20 000 Aboriginal
 people living in the region
 (WTMA, 2006).



Approach

- Applied the MA framework to identify the links between ecosystem services and the constituents of human well-being
- Qualitative approach: Focus group meetings with the community

Main aspects of the study

What well-being means to people?

- "To feel good...both in my body and in my mind"
- "Spend time with my grand-children"
- "To be happy with myself"
- "To have time to do what I want"
- "Spend time with my family...or the other ladies"
- "It is to be on country"
- "It is to be free to go on country when I want".

Main benefits that people associated with the country

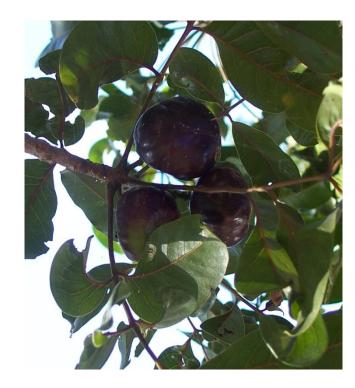
- "Food, because it is fresh, natural and healthy"
- "Medicines, because they are natural, and still used by the people"
- "Spiritual connection through initiation and dreaming stories"
- "Healing place, good for health"
- "Provides a sense of identity. For example, country provides material for shield making that is always different from one clan to another, and this is our identity"
- "Provides places to practice our traditional and cultural ways"













Marking cultural and other places on the map

 Significant wild resource use places by Mullunburra-Yidinji men (Map of the clan area)

 Total 70 places, under 4 categories: Recreational/Cultur al, Story, Burial and Food areas

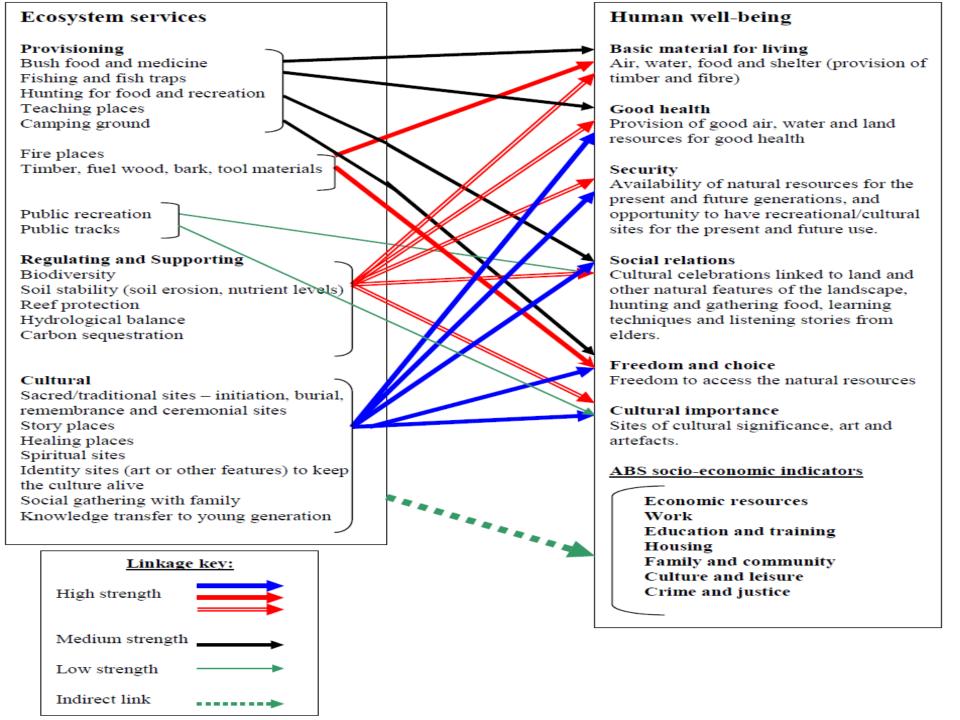


Ranking of significant areas

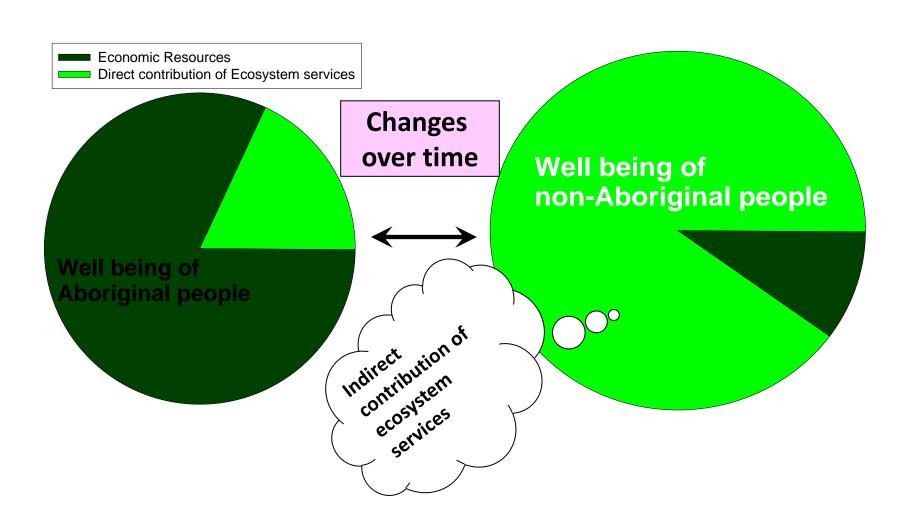
Low	Medium	High
MEN:		
Public	Walking tracks,	Fire places, Story places, Burial
recreational	Camping grounds,	sites, Ceremonial places, Food
areas,	Teaching areas and	areas, Initiation areas, Hunting
Public tracks	Fish traps	areas, and Areas for tool
		materials
WOMEN:		
Recreation	Walking tracks, Fish	Story places, Burial sites,
areas	traps, and Hunting	Healing places, Camping
	areas	grounds, Initiation areas,
		Medicine and food areas

Ranking of benefits from natural areas

Low	Medium	High
MEN:		
Recreation	Food and Medicine	Spiritual values, Language,
		Identity values, Tools and
		Cultural values
WOMEN:		
Recreation	Food,	Spiritual values, Language,
	Fishing/hunting and	Identity values for keeping
	Gathering with the	the culture alive and
	family	Transfer of knowledge



Proportional (direct) contribution of ecosystem services in the well-being of Aboriginal and non-Aboriginal people (hypothetical figures)



Main results

- Mullunburra- Yidinji people's well-being is strongly linked to the Cultural and Provisional services of natural resources.
- None of these attributes are considered in the well-being attributes applied by the Australian Bureau of Statistics.
- We are trying to develop an integrated framework that includes <u>socio-economic and</u> <u>ecological</u> attributes to accurately reflect the well-being of Indigenous people.

Next....

- We'll be conducting a detailed study in the southern part of Queensland to explore the links between well-being and ES, including:
- ES: types, valuing, mapping, impacts of climate change (at the regional and local scale)
- and linking each aspect of ES to the wellbeing of Aboriginal people

References

- Kamaljit Kaur (2007). Linking ecosystem services to well-being: A case study of Aboriginal communities in north Australia. Australian Aboriginal Studies, Issue 2 (2007): 145-147.
- Kamaljit Kaur Sangha, James Burtler, Aurelie Delisle and Owen Stanley (2011). Identifying links between ecosystem services and Aboriginal well-being and livelihoods in north Australia: applying the Millennium Ecosystem Assessment framework. Journal of Environmental Science and Engineering (issue 5, 2011), pp. 381-387.
- MTSRF project report, and M.Sc. thesis by Aurelie Delisle, JCU.
- Kamaljit Kaur (2006). The role of ecosystem services from tropical savannas in well-being of Aboriginal people: A scoping study. A report for the Tropical Savannas Cooperative Research Centre, Darwin, NT.
- Review Steering Committee 1998 Which Way Our Cultural Survival— The review of Aboriginal involvement in the management of the Wet Tropics World Heritage Area. Wet Tropics Management Authority. Cairns.



Acknowledgements

- Mulluburra-Yidijni people
- James Cook University and MTSRF (CSIRO)
- SGA network

Contact: kamaljit.kaur@jcu.edu.au