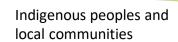
The role of communities and indigenous knowledge for stewardship across scales

Dr Ro Hill, CSIRO Land and Water and James Cook University, Cairns, Australia





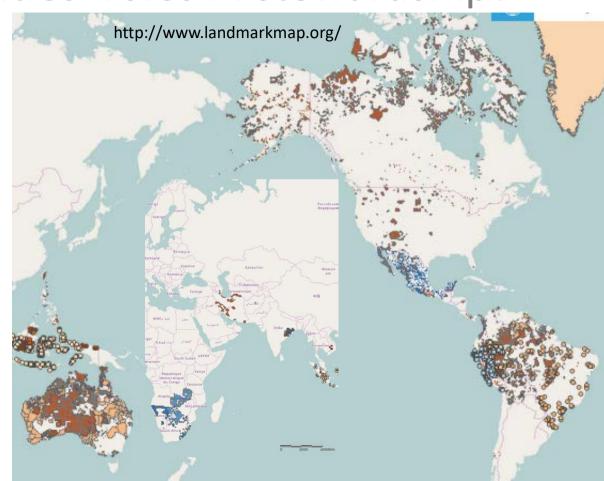




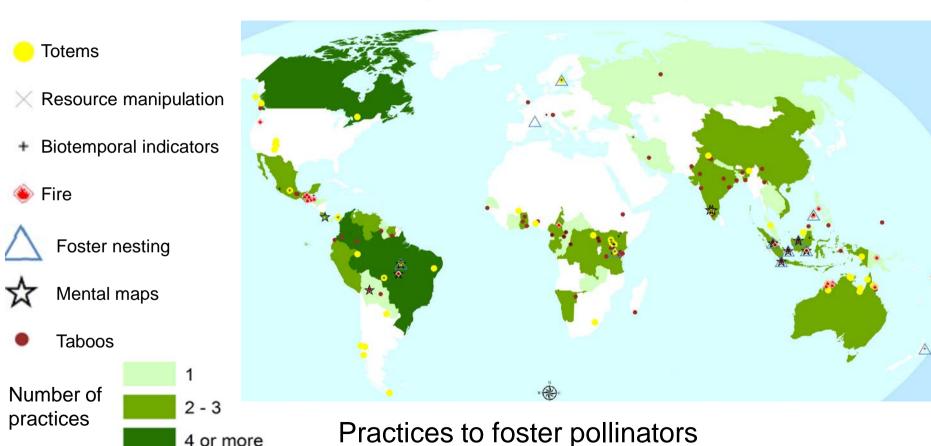
Why communities' roles in stewardship?

- Extent of planet where their decisions will determine or influence the future
- Diverse knowledge and governance systems that offer stewardship options





What does community "stewardship" look like?



4 or more

What does community "stewardship" look like?



Biotemporal indicators – seasonal calendars

Milpa – pollinators' resources manipulated over time and space



"Stewardship" – a bridging concept?

- "Caring for country" in Australia
- "The Law of the Rights of Mother Earth" in Bolivia





Indigenous Land and Sea Rangers, Australia wilayah adat, himas, agdals, territorios de vida, territorios del buen vivir, tagal, qoroq-e bumi, yerli qorukh, faritra ifempivelomana, qoroq (ICCA Consortium web-site)

Based on Indigenous and local knowledge ILK as well as science



What does working across knowledge systems look like?

Explaining totems (Indigenous created wheel)

Revealed multiple connected social-ecological entities

Reciprocity

Deep sense of responsibility

What does working across knowledge systems look like?



Timeline from Indigenous people and scientific data Revealed synergies and TRENDS

Key stewardship tensions: agency

Tagbanua people of Palawan Island view ultimate authority for their swidden-honey complex lies with two bee deities, diwata and panya'en, living in the forest and karst

IPBFS Pollination Assessment

- Spirits and/or the land stewards the people
- Country talks to you and tells you what to do e.g. when to burn



Key stewardship tensions: scale



 Support "biocultural diversity" conservation approaches through recognition of rights, tenure and strengthening of indigenous and local knowledge and traditional governance that supports pollinators

- Indigenous peoples and local communities are organising globally
- Often skip nation-state as a result of colonial history
- Common themes e.g. Indigenous and Community Conserved Areas, biocultural diversity, rights and responsibility, reciprocity

Key stewardship tensions: power imbalances



- Indigenous partnerships with scientists welcomed when Indigenous people in control
- Often bluntly rejected otherwise
- History of stolen remains, objects, and ongoing poor practice

Stewardship opportunity



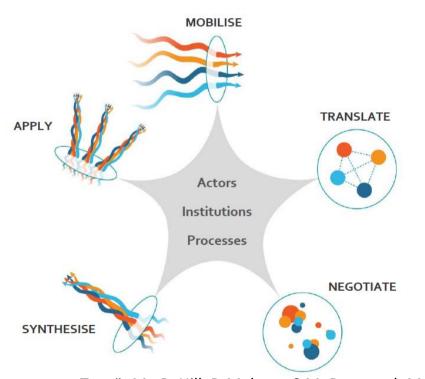


Anthony Watson, Chair, Kimberley Land Council

- Who decides what is stewardship?
- Pragmatism and leadership from Indigenous peoples and local communities to address tensions
- Neither romanticized or scientized but equitability engaging e.g science and ILK of climate change = stronger Paris Agreement

Jarlmadangah, Nyinkina Mangala, NW Australia

Building a "stewardship coalition"



Deep mutual respect

Knowledge AND governance AND people

Multiple knowledge systems approach

New methods – Indigenousdriven; community-driven research

Tengö, M., R. Hill, P. Malmer, C.M. Raymond, M. Spierenburg, F. Danielsen, T. Elmqvist, and C. Folke. 2017. *Current Opinion in Environmental Sustainability*.

Thank you!

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