Can scenarioplanning tools aid co-production of knowledge for natural resource management?







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- Why scenario-planning?
- How did we study this?
- What did we find?



Knowledge co-production

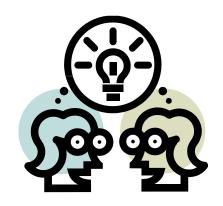


Knowledge co-production

- K is socially constructed
- Interactions of multiple actors, pre-existing Ks, context
 production, perception, understanding and use of K

Helpful tools

- Promote communication & interaction
- Incorporate wide range of issues
- Input from multiple actors



Likely effects

- changing understandings
- of problems, other actors, potential responses
- by multiple actors



Scenario-planning



- Scenario-planning
 - Methods for strategic planning considering "drivers of change"
 - Origins in business/military planning



May stimulate
dialogue
new ideas about future
 changes, challenges & responses
systems thinking.

Potential?
 Now increasingly popular in environmental sector

What is a 'scenario'?

A coherent, internally consistent, and plausible description of a possible future state (including both social and natural aspects). It is not a forecast; rather, each scenario is one alternative image of how the future can unfold.



Our study



FP7 COMET-LA project

 Support sustainable community-based governance for natural resource management, in face of future changes

3 different cases







Our study



- Project activities
 - Focused on community
 - Trials methods for building understanding of
 - (1) socio-ecological system,
 - (2) links between issues,
 - (3) future changes& response options.
- Environmental K
 - > / ≠scientific K
 - > single biophysical issues





Our study



Our role

Propose scenario-planning method

Support implementation (March-July 2014)

Evaluate method





 Written reports, interviews about experiences, discussion session on method, some direct observations



- The method (briefly)
 - Exploratory method
 - 4 phases
 - Systematic consideration of effects of drivers on system variables (via matrix)
 - Use matrix to create narrative scenarios (guided by archetypes)
 - Identify response options
 - Discuss 'robustness' and implications
 - Focus attention on implications for local adaptive management



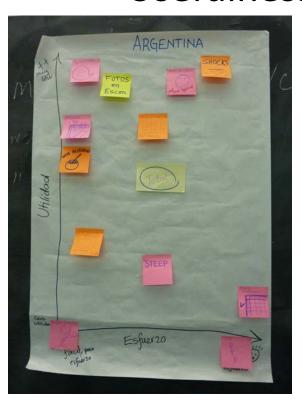


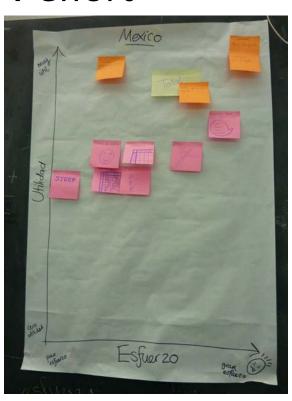
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Usefulness v effort







Overall, worth it.Why useful?





Why useful?

"it represents a fundamental step in adaptive management and systems thinking..."

(Argentinian partner, May 14)

"it opened their minds to a perspective of 20 years" (Mexican project partner, July 14)

"it allowed us to discover the complexity of relationships" ... [within a socio-ecological system]

(Colombian project partner, July 14)

→ New perspectives, understandings & knowledge







How was it useful?

"Provided a space for discussion" (Mexican partner, April 14)

"[one group] complemented what other group said... it enabled a deeper and wider discussion"

(Colombian partner, June 14)

"This has opened to them the ability to look beyond, to see farther [... as] there are elements of each scenario that they are analysing" (Mexican partner, June 14)

"They [participants] can see that maybe one of the response option starts to relate to the other one... so start being aware of all those linkages" (Colombian partner, July 14)

- Arose through/during group interaction
 Details of method & facilitation matter
 - → Useful tool for co-production?





- Scenarios as a magic bullet?
 - Teams say they could have used other tools
 - Quality of facilitation is critical

- Co-production as envisaged?
 - Whose knowledges are involved?
 "This project is totally biased towards the social sciences"
 (Argentinian partner, Nov 13)
 - Who is learning?
 - "We never thought that the community councils were going to be as aware as they are"

(Colombian partner, June 14)



Conclusion



- Scenario-planning useful
 - Co-produce new understandings of socioecological system, as well as visions of the future
- But...
 - Cannot obviate need for: facilitation skills +time, careful choice of tools.
- What is co-production anyway?
 - Scientific + Local K?



Any questions?

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