Is climate change adaptation all about water?



International conference | 25-26 April 2023 | Brussels

Societal (stakeholders involvement) perspective

Luc Janssens de Bisthoven (Royal Belgian Institute for Natural Sciences, CEBioS

Prominent elements of the context

Science > International Union for Conservation of Nature >



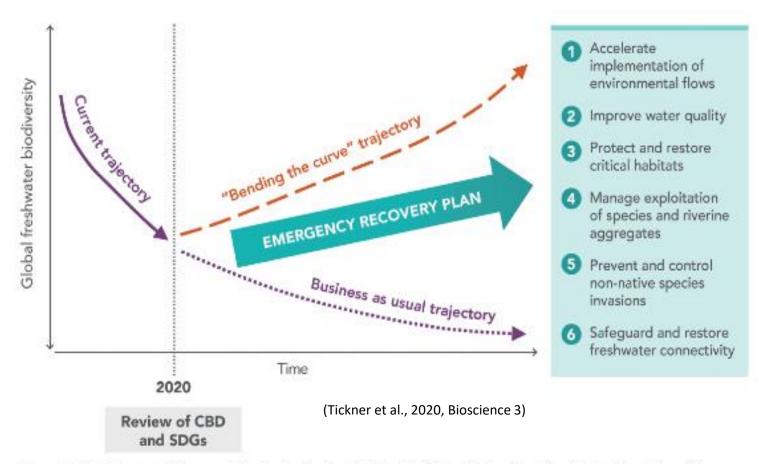


Figure 2. The Emergency Recovery Plan for freshwater biodiversity: Six priority actions for global action to bend the curve of freshwater biodiversity loss that should be reflected in the post-2020 biodiversity framework. Threats to freshwater biodiversity are often synergistic so coherent planning of interacting priority actions to address such threats is necessary.

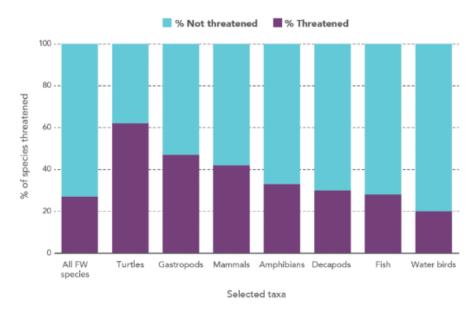


Figure 1. Proportions of freshwater taxa threatened with extinction. Source: IUCN (2019).

"Freshwater biodiversity is disproportionally threatened and underpriotized relative to the marine and terrestrial biota, despite supporting a richness of species and ecosystems with their own intrinsic value and providing multiple essential ecosystem services." (Van Rees et al., 2020. Conservation Letters)

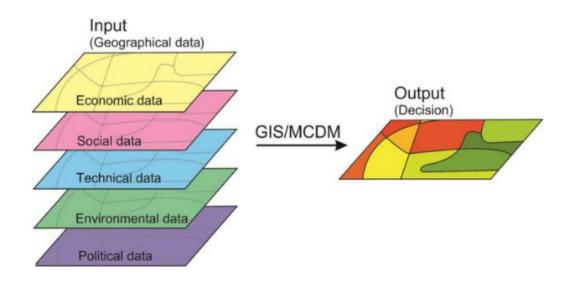
→ Intergovernmental Platform for Biodiversity and Ecosystem Services → Convention on Biological Diversity / Global Biodiversity Framework → Solutions?





indigenous peoples and local communities show ongoing deterioration of elements of nature important to them

IPBES



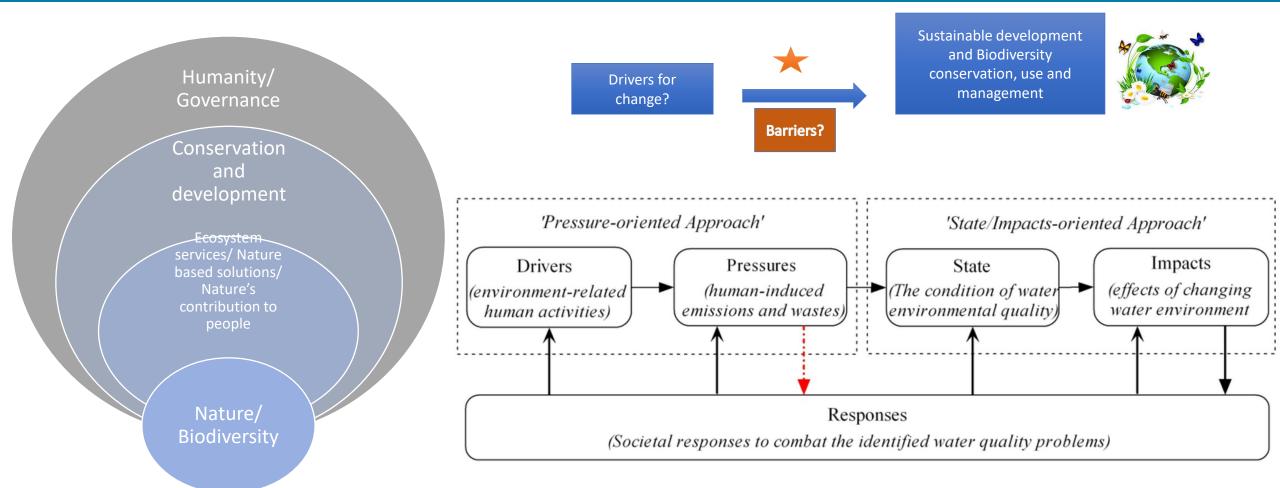
Kunming-Montreal Global Biodiversity Framework: 23 targets

TARGET 1

Ensure that all areas are under participatory integrated biodiversity inclusive spatial planning and/or effective management processes addressing land and sea use change, to bring the loss of areas of high biodiversity importance, including ecosystems of high ecological integrity, close to zero by 2030, while respecting the rights of indigenous peoples and local communities,

Resilient socio-ecological systems





"Innovative" features

Listen to stakeholders to find solutions for the management of freshwater



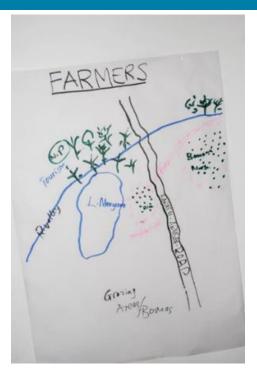
Lake Manyara, **Tanzania**



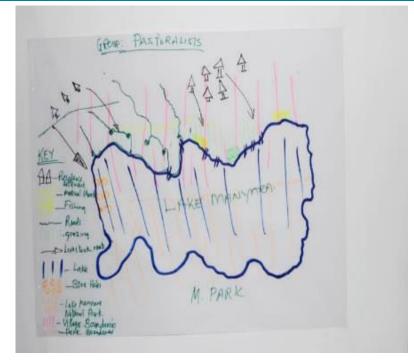


Community mapping











Contents lists available at ScienceDirect

Journal of Environmental Management

journal homepage: http://www.elsevier.com/locate/je



Research article

Social-ecological assessment of Lake Manyara basin, Tanzania: A mixed method approach



- L. Janssens de Bisthoven a, A.P.M. Vanhove a, b, c, l, m, A.-J. Rochette a, J. Hugé J, k, n, o,
- S. Verbesselt , R. Machunda , L. Munishi , M. Wynants , A. Steensels , M. Malan-Meerkotter ,
- S. Henok f, T. Nhiwatiwa g, B. Casier h, Y.A. Kiwango l, R. Kaitila l, H. Komakech d, L. Brendonck l



Belgium

partner in development

Valuation of ecosystem services



lam

a policy maker.

decision maker.

politician,

authority





I am a

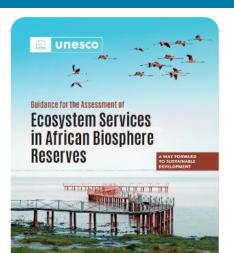
Biosphere

Reserve

manager



https://unesdoc.unesco.org/ark:/48223/pf0000382278





I would like to...

STRUCTURE OF THE MANUAL

FIGURE 1.

Better understand the concept of ecosystem services

lam

a community

representative,

community leader,

NGO representative

Refresh my understanding of MAB

Have some idea about existing rapid assessment tools for assessing ecosystem services

Understand how to value ES and have some examples Understand Payments for Ecosystem Services

Translate this knowledge into concrete actions towards better conservation, sustainable development and a greener economy



CHAPTER 1
Ecosystem services



CHAPTER 2 Biosphere Reserves



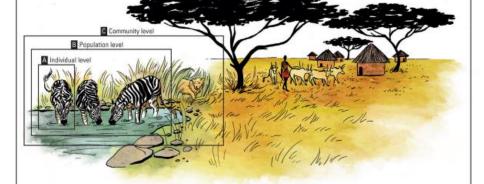
CHAPTER 3
Ecosystem Services Assessment Tools



CHAPTER 4
How to value ecosystem services?



CHAPTER 5 From ecosystem services assessement to real changes



And throughout the manual

Examples and case studies from African Biosphere Reserves

References to additional useful resources at the end of each chapter

Illustration: Mado Berthet, RBINS

Good practices



To elicit perceptions and judgements, ideas, traditional knowledge

With structured, moderated conversation, dialogue, debate with stakeholders, tiered and multi-actor process

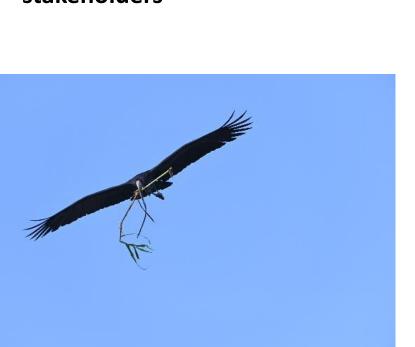


- → increased **information** and **knowledge** for all parties
- →increased understanding of each other, of the situation, environmental conflict, trade-offs (arbitrages)
- → Provide **transparent** governance, **fair**, **equitable** and effective **decisions**, strategies, plans and implementation of management
- → **DECISION SUPPORT SYSTEM** based on different knowledge systems (science, traditional)
- → Increased **ownership** of conservation & other processes!
- →Increased chance of **success** (and **impact**!) of decisions, measures, management of freshwaters & other ecosystems

Lessons learned



UN Water Conference and main conclusions → related to stakeholders



- 1. Professionalisation of (multi-actor & South-South) stakeholder engagement (and budget accordingly)
- 2. Holistic & integrative approach, focus on RESILIENCE
- 3. Innovation within existing institutions
- 4. → capacity building
- 5. Multi-disciplinarity teams
- 6. Embrace complexity!
- 7. <u>Development Cooperation</u> is about change management with people
- 8. Nature-based solutions work if they are human-based → human in the sense of humanity, respectful stewart of people & nature → Nature's contributions to people

Thank you!













