

from a biodiversity policy perspective

opportunities, concerns and their relationship with other terms under the CBD

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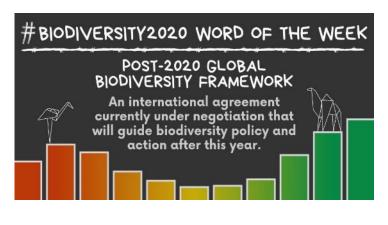


On behalf of



Nature-based Solutions in the CBD negotiations – supported by many, contested by others, but why?

One reason is because there is a long history of other CBD concepts









Since 2010 COP 10. Japan

Ecosystem-based approaches for adaptation and mitigation (CBD COP Dec/X/33)



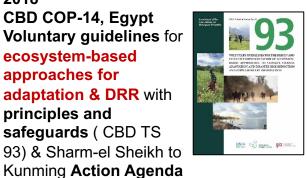
Since 2010 Rio Conventions Pavilions biodiversity, climate change & land management with NbS as key topic



2018

promoting NbS

2016 **CBD COP-13, Mexico** Synthesis report on ecosystembased approaches for adaptation & DRR (CBD TS 85) & Review of ecosystem-based mitigation actions beyond forests (CBD TS 86)



2021-2022 CBD COP-15, China & Canada Global Biodiversity Framework, incl. targets with NbS & ecosystem-based approaches &, Kunming Declaration)

22

2021-2022

UNEA-5, Kenya



Since 2009

Ecosystem-based adaptation:

'The use of biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to climate change' (CBD TS 41)



UNGA Biodiversity Summit, NY. Leaders Pledge for Nature with 93

20

2020

21

ecosystem-based approaches environment

Since 2000 COP 5, Kenya

Ecosystem approach & 12 Principles (2004)

'Strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way' = primary framework for action under the CBD (COP 5 Decision V/6)

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Since 2014 COP 12, Republic of Korea **Ecosystem-based approaches** for climate change adaptation & DRR (CBD COP Dec/XII/20



assembly

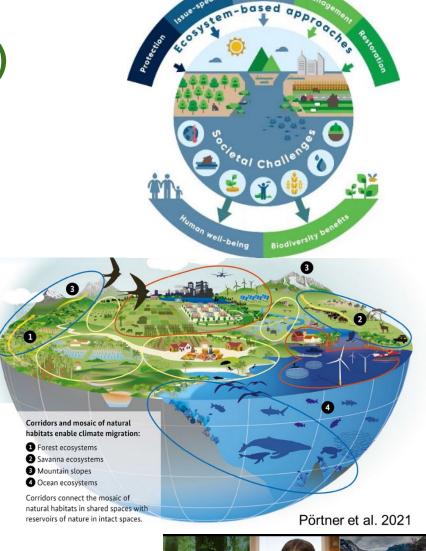
Resolution 5.5 on NbS incl.

definition, recognizing the

ecosystem approach and

Opportunities (from biodiversity perspective)

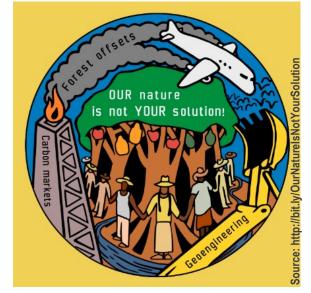
- NbS = "holistic problem solving" approach with and for biodiversity, building bridges between Agenda 2030 & Rio conventions e.g.
 - Policies & plans: Integration of NbS into NDC, revision of NBSAPs & NAPs
 - Finance: Joint financing via public, private, international & domestic sources
 - Action: Transformative & systemic, using the ecosystems perspective, addressing many issues – including biodiversity loss – in wide range of land- and seascapes areas;
- Communication & awareness raising tool: easy to communicate seen as positive by decision makers, business & finance, wider public;
- Mainstreaming tool: Integrates, combines & builds upon various established concepts in a "large family", integrating biodiversity into policy and planning is more explicit than in other ecosystem-based approaches





Concerns (not only from a biodiversity perspective)

- Misuse as carbon offsetting option: pushed by 'climate community' neglecting need for rapidly phasing out fossil fuel emissions, carbon sequestration limits or tipping points
- Lack of stakeholder & rightsholder involvement: privatization & commodification of nature; marginalization of stakeholders & limited involvement of IPLCs; lack of clear reference to fair and equitable sharing of benefits
- 'Tyranny of trees' & focus on restoration only: Neglecting conservation, overlooking crucial biodiversity values of other nonforested ecosystems; use of non-native species.
- Lack of adequate monitoring: need for robust monitoring frameworks that cover multiple benefits (not only carbon)
- Broadness/vagueness of concept: oversimplification; inclusion of BECCS, ocean fertilization etc; no clear links with existing approaches.







Comparing NbS with the CBD ecosystem approach

Nature-based Solutions Global Standard & 8 criteria (IUCN, 2020)



- 1) Effectively address societal challenges
- 2) Design informed by scale
- 3) Net gain of **biodiversity & ecosystem integrity**
- 4) Economic viable
- 5) Inclusive, transparent and empowering **governance** processes
- 6) Equitably balance **trade offs** between primary goal & multiple benefits
- 7) Adaptive management based on evidence
- 8) **Sustainable** & **mainstreamed** within appropriate jurisdictional context

Ecosystem approach & 12 principles (CBD, 2004)



- 1) Resource management objectives a matter of societal choice
- 2) Management decentralized to the lowest appropriate level
- 3) Consider the **effects** (actual or potential) of activities on adjacent & other ecosystems
- 4) Recognise potential **gains** from management & manage the ecosystem in **economic context** (market distortions, incentives, internalize costs & benefits)
- 5) **Conservation** of ecosystem structure & functioning as priority target
- 6) Manage ecosystems within limits of their functioning
- 7) Appropriate spatial & temporal scale
- 8) Long-term objectives, recognizing temporal scales, lag-effects
- 9) Change management
- 10) Appropriate balance between conservation & use
- 11) Consider all forms of **information**, **IPLC knowledge & practices**
- 12) Involve all relevant sectors of society & science

Conclusion – What is needed?

More trust-building among policymakers, planners, practitioners (in particular within CBD community) including by:

- 1) Ensuring the quality, credibility & clear scope of NbS by operationalizing the definition (UNEA 5) making effective use of existing and applied concepts, safeguards, principles (e.g. CBD), criteria and standards (e.g. IUCN, etc); BECCS, ocean fertilization, etc. are no NbS!
- 2) Planning & implementing NbS with, by and for people: empowering & engaging local people; securing land rights; ensuring decision making; showing that own actions matter; operationalizing core governance principles (e.g. socially inclusive and rights based approaches, benefit sharing, and adaptive management).
- 3) Keeping the dual role of biodiversity in mind: biodiversity as a mean to address societal challenges + biodiversity benefits as a key outome maintaining and increasing ecosystem integrity; e.g. balance between conservation, restoration and sustainable use.
- **4) Better evaluating the full range of benefits:** go beyond carbon and measure what matters (e.g. human wellbeing, ecosystem services, resilience, biodiversity); identify, manage, and mitigate trade-offs and conflicts.







Thank you very much for your attention!

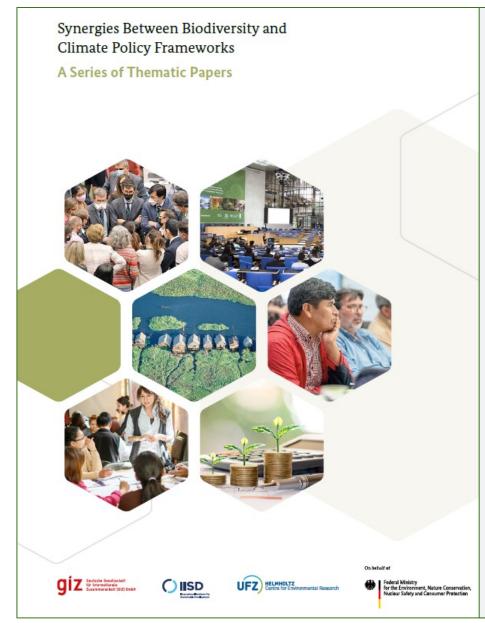
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New thematic paper series by GIZ, IISD and UFZ on **synergies** between biodiversity and climate policy frameworks available here:

https://www.adaptationcommunity.net/





- Linkages and synergies between international instruments on biodiversity and climate change
- The role of science–policy–practice interfaces for ensuring coherent policies and actions
- Nature-based solutions: an approach for joint implementation of climate and biodiversity commitments
- Good governance for integrated climate and biodiversity policy-making
- From national to local implementation:
 a collaborative, multi-level effort to achieve
 joint climate and biodiversity goals
- 6 Delivering financing for joint biodiversity and climate solutions

22.08.22

Backup Slides



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Terms under CBD: Ecosystem-based approach & Ecosystem Approach & Nature-based Solutions

Under the CBD, NbS were originally discussed as "ecosystem-based approaches"

= **Umbrella term** for various ecosystem-based planning and management approaches. In CBD context ecosystem-based approaches for climate change adaptation (EbA) and disaster risk reduction (Eco-DRR) are important.

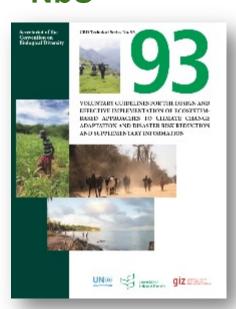
Sometimes mixed up with ecosystem approach, described by the Convention on Biological Diversity (CBD, 2000) is a strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way

= primary framework for action under the CBD and therefore the term ecosystem-based approaches at present is preferred by many member countries.(CBD, 2004).

But **CBD Technical Series 93 also refers to NbS** as an umbrella concept for various ecosystem-based approaches (e.g. EbA and EcoDRR)



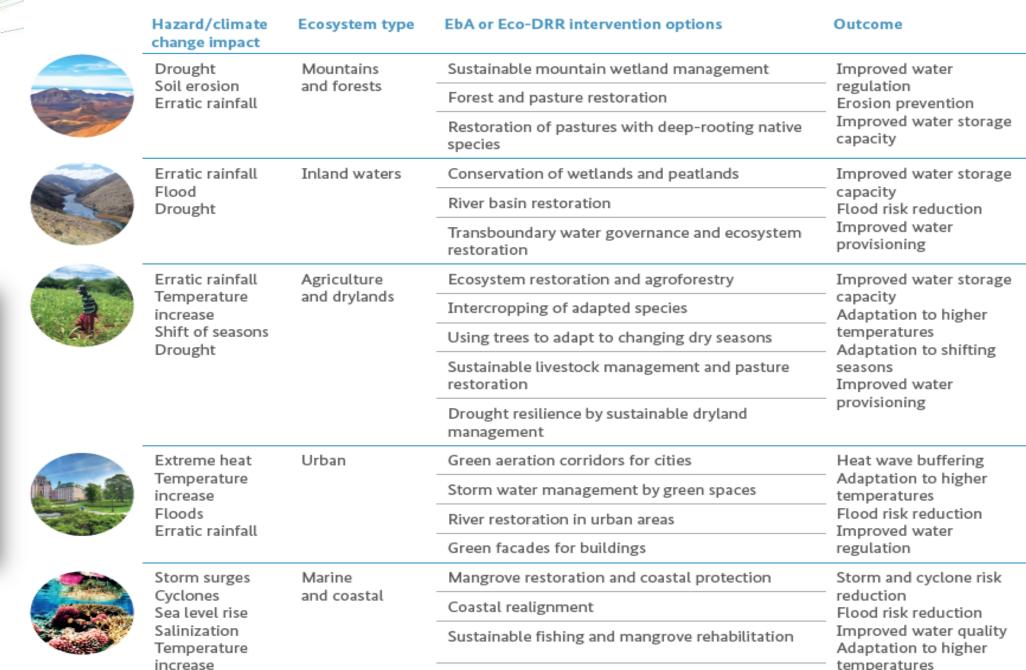
All EbA & Eco-DRR measures qualify as NbS



Source: CBD, 2019

https://www.cbd.int/ts/

Ocean acidification



Coral reef restoration

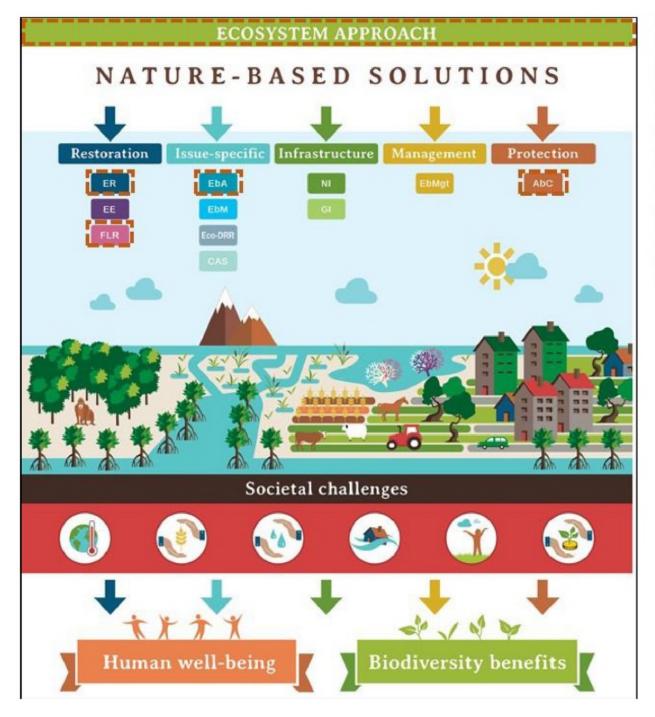


Fig. 1. Conceptual representation of the NbS umbrella for five categories of ecosystem-based approaches (adapted from Fig. 6 Cohen-Shacham et al., 2016). Acronyms used: Ecological Restoration (ER); Ecological Engineering (EE); Forest Landscape Restoration (FLR); Ecosystem-based Adaptation (EbA); Ecosystem-based Mitigation (EbM); Climate Adaptation Services (CAS); Ecosystem-based Disaster Risk Reduction (Eco-DRR); Natural Infrastructure (NI); Green Infrastructure (GI); Ecosystem-based Management (EbMgt); Area-based Conservation (AbC). The approaches in brown dashed boxes are those selected for the comparative analysis. The lower circles represent the societal challenges they address: climate change, food security, water security, disaster risk, human health, and social and economic development.

Source: Cohen-Shacham, E., et al 2019: Core principles for successfully implementing and upscaling Nature-based Solutions

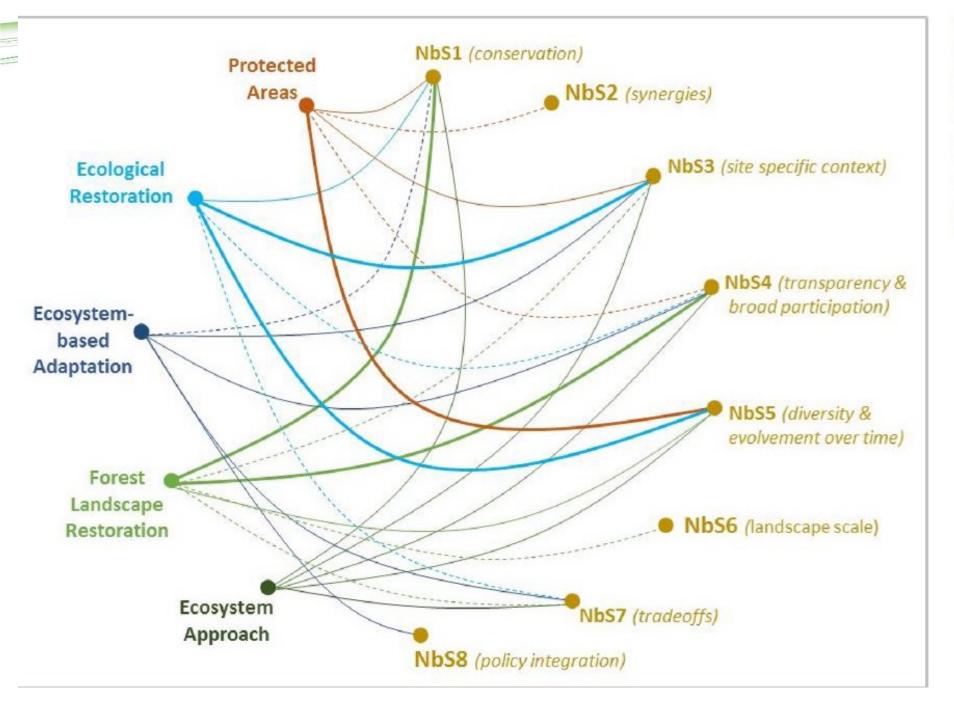


Fig. 2. Extent to which each of the eight NbS principles is included within the principles of the other five analyzed approaches. Line weight represents the number of times the NbS principle is referenced in the principles of other frameworks' (dashed lines = one time, thin lines = two times, thicker lines = three times). Codes for each NbS principle are provided in Table 1.

Source: Cohen-Shacham, E., et al 2019: Core principles for successfully implementing and upscaling Naturebased Solutions