



The nature of progress

Concept and science of Nature-based Solutions: Unlocking its potential to address climate change

UNFCCC Standing Committee on Finance Forum on Financing Nature-based Solutions

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What are Nature-based Solutions (NbS)?



Nature-based solutions are: "actions to protect, sustainably manage and restore natural or modified ecosystems, that address societal challenges (e.g. climate change, food and water security or natural disasters) effectively and adaptively, simultaneously providing human wellbeing and biodiversity benefits"

- Unanimously adopted by 1,400+ IUCN members (states, government agencies, international/national NGOs and IPOs)
- Represents the most widely-used definition globally
- Cited by IPCC and IPBES in 2021
- Cited in 2000+ peer reviewed articles in recent years







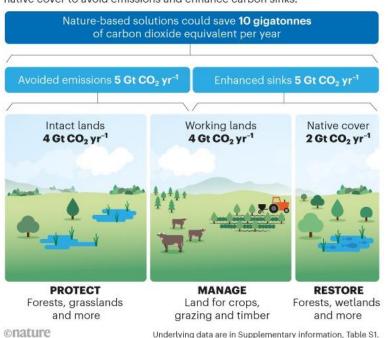


NbS for Climate Change Mitigation



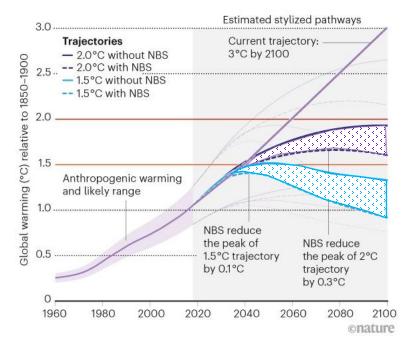
THREE STEPS TO NATURAL COOLING

Protect intact ecosystems, manage working lands and restore native cover to avoid emissions and enhance carbon sinks.



THE LONG GAME

Nature-based solutions (NBS) could reduce the global peak temperature and suppress warming beyond 2100-if they are ambitious and designed for longevity.



Source: Cécile A. J. Girardin, Stuart Jenkins, Nathalie Seddon, Myles Allen, Simon L. Lewis, Charlotte E. Wheeler, Bronson W. Griscom & Yadvinder Malhi. 2021. 'Nature-based solutions can help cool the planet — if we act now'. *Nature*. 12 May.

NbS for Climate Change Adaptation

Mangroves → Coastal Resilience

- Mangroves provide over \$65 billion in flood protection, and safeguard 15 million people against flooding per annum¹
- Of all the world's ecosystems, mangroves are the most effective per unit area at trapping and storing carbon²

Green spaces → Urban Resilience

- Green spaces absorb storm water run-off, reduce urban heat-island effect, and lower drought impacts and remove carbon
- Sponge City Xiamen, China
- Green Cities, Clean Waters Philadelphia, USA

1 Menéndez, P., Losada, I.J., Torres-Ortega, S., Narayan, S., & Beck, M.W. 2020. 'The Global Flood Protection Benefits of Mangroves', *Scientific Reports*, 10: 4044). 2 Spalding, Mark D and Leal, Maricé (eds). 2021. *The State of the World's Mangroves 2021*. Global Mangrove Alliance.



Growing policy uptake and recognition of NbS



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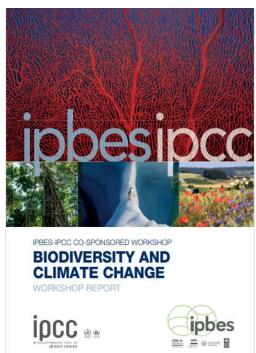












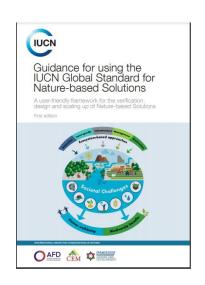
Established best practice for NbS implementation



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IUCN Global Standard for NbS[™]





Underpinned by four operational caveats

01

CUT EMISSIONS

02

CONSERVE & PROTECT EXISTING ECOSYSTEMS

03

BE SOCIALLY RESPONSIBLE

04

BE ECOLOGICALLY RESPONSIBLE

The IUCN Global Standard for NbS[™]



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Societal challenges



Design at scale



Biodiversity net gain



Economic feasibility



Inclusive governance



Balance tradeoffs



Adaptive management



Mainstreaming for sustainability

- 8 Criteria and 28 Indicators for designing (new) and assessing (existing/past) NbS
- Measured against calibrated metrics
- Developed with +800 contributors and 9 expert groups through 2 years of public consultations
- Facilitative standard to support transitioning to NbS
- Piloted across Asia, Africa, Latin America, and parts of Europe
- Translated by partners into 7 languages so far

Assurance with 3rd Party Certification by 2022



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IUCN to develop collaborative certification scheme for Nature-based Solutions

■ Tue, 07 Sep 2021

Marseille, France, 2021 (IUCN) – At the 2021 World Conservation Congress, IUCN unveiled a plan to develop a collaborative certification system to ensure that the changes resulting from Nature-based Solutions for Societal Challenges (NbS) are truly sustainable.





Partnerships

- Delivery through existing, accredited, schemes
- Currently six partners on board for development phase: Forest Stewardship Council, Gold Standard, Initiative for Responsible Mining Assurance, FairTrade International, Global Sustainable Tourism Council

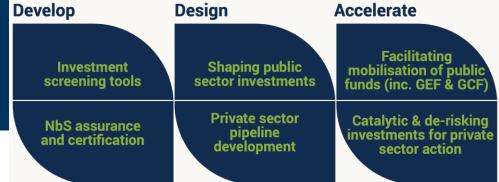
Priorities

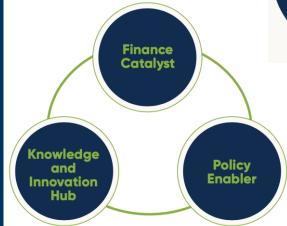
- A seamless monitoring, evaluation and auditing process with recognised partner schemes
- Accelerating uptake of NbS through leveraging growing interests in private sector markets and finance
- **High quality and responsive technical services** through the *IUCN Global Facility for NbS*





NbS Global Facility











Training on Coastal Resilience through Integrated Nature-Based Solutions 24–26 November 2020, 2:00–5:00pm (Manila Time), via Zoom

Several financing vehicles available for NbS



- Enhanced & innovative public sector financing including repurposing of negative subsidies
- ❖ Innovation in restructuring and management of national debt
- De-risked private sector investments through blended finance arrangements
- Inclusive financing increasing access to fair & competitive lines of credits for farmers & rural communities













Concluding comments



- The concept and science of Nature-based Solutions is clear, well established and builds upon 20 years of experience
- A widely accepted NbS definition and best practice exists and regularly used, including by many governments and private sector
- Several innovative finance models already established and piloted
 - the challenge now is to scale them up

Thank you for your attention

For more information:



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