

Further Reading on NbS

1.1 General information on biodiversity and NbS

- IPBES global assessment: <https://ipbes.net/global-assessment>
- Global Biodiversity outlook 5: <https://www.cbd.int/gbo5>
- NbS Initiative, University of Oxford: <https://www.naturebasedsolutionsinitiative.org/>
- IUCN (2020): IUCN Global Standard for Nature-based Solutions. <https://portals.iucn.org/library/sites/library/files/documents/2020-020-En.pdf>
- **Cohen-Shacham, E., Walters, G., Janzen, C. and Maginnis, S. (eds.) 2016. Nature-based Solutions to address global societal challenges** <https://portals.iucn.org/library/sites/library/files/documents/2016-036.pdf>
- **OECD (2020): Nature-based solutions for adapting to water-related climate risks.** https://issuu.com/oecd.publishing/docs/nature-based-solutions-for-adapting-to-water_relat
- Barber, C.V., R. Petersen, V. Young, B. Mackey, C. Kormos. 2020. *The Nexus Report: Nature Based Solutions to the Biodiversity and Climate Crisis*. F20 Foundations, Campaign for Nature and SEE Foundation. <https://www.foundations-20.org/wp-content/uploads/2020/11/The-Nexus-Report.pdf>
- **Dasgupta Review (2021) The Economics of Biodiversity** <https://www.gov.uk/government/publications/final-report-the-economics-of-biodiversity-the-dasgupta-review>
- **CBD (2019): Voluntary guidelines** for the design and effective implementation of ecosystem-based approaches to climate change adaptation and disaster risk reduction and supplementary information. Technical Series No. 93. <https://www.adaptationcommunity.net/wp-content/uploads/2019/06/2019-cbd-eba-ecodrr-guidelines-part1-2-3-web.pdf>
- **The Nature Conservancy (2018): Strategies for Operationalizing Nature-Based Solutions in the Private Sector.** <https://www.nature.org/content/dam/tnc/nature/en/documents/NBSWhitePaper.pdf>
- **IUCN / University Oxford (2019): Strengthening NbS in national climate-commitments / NDCs** <https://www.iucn.org/theme/climate-change/resources/key-publications/strengthening-nature-based-solutions-national-climate-commitments>
- **German International Climate Initiative (IKI): Biodiversity criteria for climate change projects** https://www.international-climate-initiative.com/en/?iki_lang=en
<https://www.unep-wcmc.org/resources-and-data/biodiversity-criteria-in-iki>
- FEBA (Friends of Ecosystem-based Adaptation), 2017. **Making Ecosystem-based Adaptation Effective: A Framework for Defining Qualification Criteria and Quality Standards** (FEBA technical paper developed for UNFCCC-SBSTA 46) <https://pubs.iied.org/pdfs/G04167.pdf>
- N.Doswald, R.Munroe, D Roe, A.Giuliani, I.Castelli, J.Stephens, I.Möller, T.Spencer, B.Vira & H.Reid, 2014. **Effectiveness of ecosystem-based approaches for adaptation: review of the evidence-base** <https://www.tandfonline.com/doi/abs/10.1080/17565529.2013.867247>
- Reid H, Hou Jones X, Porras I, Hicks C, Wicander S, Seddon N, Kapos V, Rizvi A R, Roe D. (2019): **Is ecosystem-based adaptation effective?** Perceptions and lessons learned from 13 project sites. IIED, London <https://pubs.iied.org/pdfs/17651IIED.pdf>
- N.Kabisch, H.Korn, J.Stadler, A.Bonn (2017): **Nature-Based Solutions to Climate Change Adaptation in Urban Areas** (open access book): <https://link.springer.com/book/10.1007%2F978-3-319-56091-5>

- Marselle M., Stadler J., Korn H., Irvine K., Bonn A. (eds, 2019): **Biodiversity and Health in the Face of Climate Change**. Springer, Cham. https://doi.org/10.1007/978-3-030-02318-8_14
- Vignola, R., C.A.Harvey, P.Bautista-Solis, J.Avelino, B.Rapidel, C.Donatti, and R.Martinez. (2015): **Ecosystem-based adaptation for smallholder farmers: Definitions, opportunities and constraints**. Agriculture, Ecosystems & Environment 211
https://www.researchgate.net/publication/278727373_Ecosystem-based_adaptation_for_smallholder_farmers_Definitions_opportunities_and_constraints
- DELTARES, University Wageningen: **Resilient City Toolbox**: <https://crctool.org/en/about/> (supported by: Asian Development Bank), background info about the planning tool: <https://publicwiki.deltares.nl/display/AST/AST2.0+Documentation> ex. for optional layers: green benefits <https://publicwiki.deltares.nl/display/AST/Green+benefits>
- **Natural Capital Protocol Toolkit**, developed by World Business Council for Sustainable Development, WBCSD (tools, methodologies and approaches available for natural capital measurement and valuation) https://capitalscoalition.org/impact/?fwp_filter_tabs=publication
 - Capitals Coalition and Cambridge Conservation Initiative. 2020. "Integrating biodiversity into natural capital assessments". (Online) Available at: www.capitalscoalition.org

Knowledge products of the GIZ project „Mainstreaming EbA – strengthening ecosystem-based adaptation in planning and decision-making processes“:

- **GIZ (2017) Making EbA Effective: A Framework for Defining Qualification Criteria and Quality Standards** (ENG,ESP,FR) This Technical Paper provides a practical assessment framework for designing, implementing and monitoring EbA measures by proposing a set of 3 elements, 5 qualification criteria and 20 quality standards with example indicators (GIZ, IUCN, IIED, FEBA). https://www.iucn.org/sites/dev/files/feba_eba_qualification_and_quality_criteria_final_en.pdf
- **GIZ (2017) Four Learning Briefs from EbA Community of practice Workshop** (ENG) Showcasing experiences from practitioners on entry points for mainstreaming EbA, how to generate evidence and finance EbA, and on monitoring and evaluation systems. <https://www.adaptationcommunity.net/publications/?topic=ecosystem-based-adaptation>
- **GIZ (2018) Climate Risk Assessments – Supplement for EbA measures** (ENG,ESP) A guidebook for planners and practitioners, providing a standardized approach to assess risks within social-ecological systems based on two application examples (river basin and coastal zone management). It helps to improve adaptation planning by considering holistic 'adaptation packages' including EbA. (GIZ, EURAC & UNU). <https://www.adaptationcommunity.net/wp-content/uploads/2018/06/giz-eurac-unu-2018-en-guidebook-climate-risk-asesment-eba.pdf>
- **GIZ (2017) Solutions in Focus: EbA from Mountains to Oceans – How people adapt to climate change by using nature** (ENG) An illustration of the diversity of EbA in practice: 30 applied EbA measures (solutions) in a broad range of Report countries and ecosystems as inspiration for decision makers and project developers. https://www.adaptationcommunity.net/wp-content/uploads/2018/09/giz2018-en-panorama-EbA-solutions-in-focus_web.pdf
- **GIZ (2019) Voluntary guidelines for the design and effective implementation of ecosystem-based approaches** (ENG) The guidelines provide a flexible framework for planning and implementing ecosystem-based adaptation and disaster risk reduction initiatives (SCBD, UN Environment & GIZ). <https://www.cbd.int/doc/publications/cbd-ts-93-en.pdf>

1.2 NbS and green recovery

- IPBES pandemics report: <https://ipbes.net/pandemics>

- IPBES guest article Prof. Settele: COVID-19 Stimulus measures must save lives, protect livelihoods and safeguard nature <https://ipbes.net/covid19stimulus>
- McElwee et al. (2020): Ensuring a post-COVID-19 economic agenda tackles global biodiversity loss: https://digitalcommons.library.umaine.edu/cgi/viewcontent.cgi?article=1055&context=c19_teach_d_oc
- OECD: Biodiversity and the economic response to COVID-19: Ensuring a green and resilient recovery: https://read.oecd-ilibrary.org/view/?ref=136_136726-x5msnju6xg&title=Biodiversity-and-the-economic-response-to-COVID-19-Ensuring-a-green-and-resilient-recovery
- WRI: COVID-19 Response and recovery: <https://files.wri.org/s3fs-public/covid-19-response-and-recovery-joint-policy-recs-nov-9-en.pdf>
- WHO Manifesto for a healthy recovery: <https://www.who.int/news-room/feature-stories/detail/who-manifesto-for-a-healthy-recovery-from-covid-19>
- White paper on GEF COVID-19 response strategy: <https://www.thegef.org/council-meeting-documents/white-paper-gef-covid-19-response-strategy>
- WWF: Nature Hires https://wwfeu.awsassets.panda.org/downloads/nature_hires_report_wwf_ilo.pdf

1.3 Mainstreaming NbS

- **GIZ (2018) Entry Points for Mainstreaming Ecosystem-Based Adaptation (ENG)** A series of four case studies from South Africa, the Philippines, Peru and Mexico, which summarizes promising policy entry points and governance structures for EbA mainstreaming at policy and Manual practitioner's level. <https://www.adaptationcommunity.net/publications/?topic=ecosystem-based-adaptation>
- **GIZ (2019) Emerging lessons for mainstreaming Ecosystem-based Adaptation: Strategic entry points and processes (ENG)** This study highlights success factors and entry points for mainstreaming EbA based on 16 practical case studies from Mexico, Peru, South Africa, Philippines and Viet Nam. https://www.adaptationcommunity.net/wp-content/uploads/2019/04/giz2019-en-study_Emerging-lessons-for-EbA-mainstreaming_web.pdf

1.4 Governing NbS

- **GIZ (2019) Governance for EbA: Understanding the diversity of actors & quality of arrangements (ENG)** background information on key concepts on EbA governance for decision makers and practitioners, with 18 practical examples. <https://www.adaptationcommunity.net/wp-content/uploads/2019/09/giz2019-en-eba-governance-study-low-res.pdf>
- **EUROCLIMA+ (2021) Natural Resource Governance.** Emerging lessons on its catalyst role for effective NDC implementation in Latin America. GIZ.
- **Bennett, N., Satterfield, T. (2018):** Environmental governance: Practical Framework to guide design, evaluation and analysis. *Conservation Letters*.
- <https://conbio.onlinelibrary.wiley.com/doi/full/10.1111/conl.12600>
- **Blomquist, W. (2009): Multi-level governance and natural resource management:** The challenges of complexity, diversity, and uncertainty. *Institutions and Sustainability*.
- Campese, J., B. Nakangu, M. Jones, A. Silverman, and J. Springer (2016): **The NRGF Assessment Guide:** Learning for Improved Natural Resource Governance – Gland, Switzerland: IUCN and CEESP https://www.iucn.org/sites/dev/files/content/documents/the_nrgf_assessment_guide_working_paper.pdf

1.5 Financing NbS

- **GIZ (2019) EbA and Insurance: Success, Challenges and Opportunities** (ENG) This research looks into opportunities to integrate Nature-based Solutions and insurance mechanisms. 11 case studies and examples help formulate recommendations for insurances, NGOs, academia, governments, donors and investors about climate risk financing and EbA (GIZ, Munich-Re, UC Santa Cruz, Social Impact Partners & The Nature Conservancy). https://www.adaptationcommunity.net/wp-content/uploads/2019/11/EbA_insurance_publication_2019_web.pdf
- **GIZ (2018) Finance options and instruments for Ecosystem-based Adaptation** (ENG) Overview of finance options and compilation of ten examples to inspire project developers and practitioners interested in exploring different ways to access resources and engagement models for EbA financing. <https://www.adaptationcommunity.net/wp-content/uploads/2018/06/giz2018-en-eba-finance-guidebook-low-res.pdf>
- **GIZ (2017) Valuing the Benefits, Costs and Impacts of EbA Measures** (ENG,ESP) This sourcebook helps to assist adaptation planners and decision-makers in building awareness, knowledge and capacity for valuing the costs, benefits and impacts of EbA It combines information on valuation theory and methods with 40 real-world examples, as well as, practical steps for commissioning, designing and implementing EbA valuation studies. https://www.adaptationcommunity.net/wp-content/uploads/2017/12/EbA-Valuations-Sb_en_online.pdf

1.6 Monitoring NbS

- **GIZ (2020) Guidebook for Monitoring and Evaluating EbA.** This is a practical guide for planners and practitioners to better understand the outcomes and impacts of on-the-ground Ecosystem-based Adaptation (EbA) projects, working with and enhancing nature to reduce the negative impacts of climate change on people. <https://www.adaptationcommunity.net/publications/guidebook-for-monitoring-and-evaluating-eba/>

1.7 Networks on NbS and EbA

Panorama Solutions <https://panorama.solutions/en/portal/ecosystem-based-adaptation>

Adaptation Community <https://www.adaptationcommunity.net/>

EU, Nature-based solutions portal: https://ec.europa.eu/info/research-and-innovation/research-area/environment/nature-based-solutions_en

Oppla (platform for natural capital, ecosystem-services and NBS): <https://oppla.eu/>

Climate-ADAPT (platform for climate change adaptation): www.climate-adapt.eea.europa.eu

CBD thematic website on biodiversity and climate change: <https://www.cbd.int/climate/>

IUCN webpages:

- Nature-based Solutions <https://www.iucn.org/theme/nature-based-solutions>
- Blue Solutions, ocean NbS <http://bluesolutions.info>
- NbS, Commission on Ecosystem Management <https://www.iucn.org/commissions/commission-ecosystem-management/our-work/nature-based-solutions>
- Protected and Conserved Areas as Natural Solutions <https://www.iucn.org/commissions/world-commission-protected-areas/our-work/natural-solutions>

- Ecosystem-based Disaster Risk Reduction (Eco-DRR) <https://www.iucn.org/theme/ecosystem-management/our-work/environment-and-disasters>
- UN Decade Ecosystem Restoration – <http://www.onebigrobot.com/IUCN/>
 - Restoration tools, etc. <http://www.onebigrobot.com/IUCN/iucn-restoration-tools>