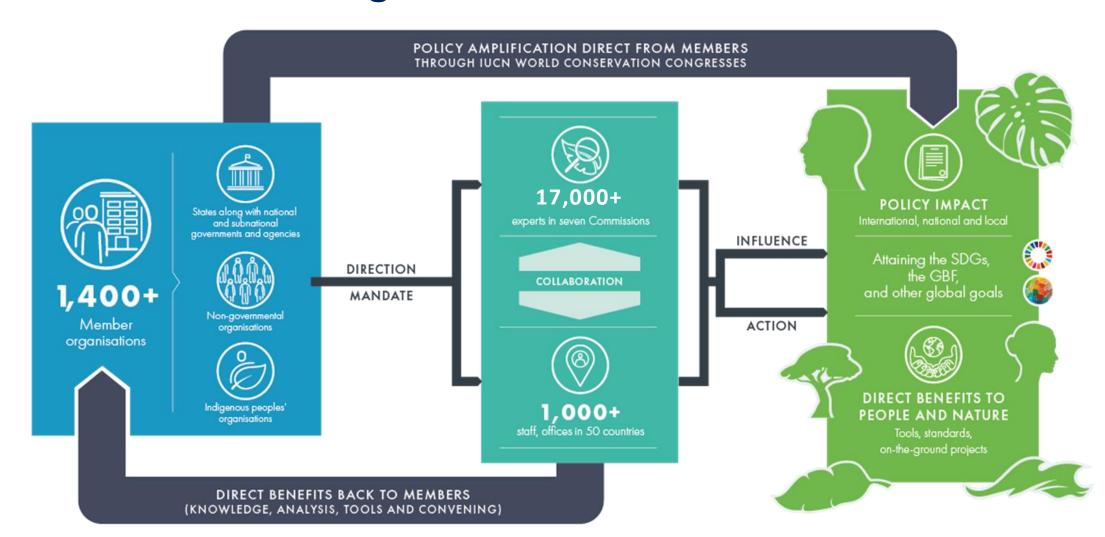






The nature of progress

IUCN: The world's largest environmental network





A powerful Union

Commission on Education and Communication

IUCN Members

- State and government agencies
- Non-governmental organisations
- Indigenous Peoples' organisations

IUCN Commissions

- Commission on Education and Communication (CEC)
- Commission on Environmental, Economic and Social Policy (CEESP)
- World Commission on Environmental Law (WCEL)
- Commission on Ecosystem Management (CEM)
- Species Survival Commission (SSC)
- World Commission on Protected Areas (WCPA)
- Climate Crisis commission

Secretariat

 Coordinates and collaborates with IUCN Members and Commissions to implement the IUCN Programme















IUCN as a provider of decision making tools





IUCN Nature Positive approach



















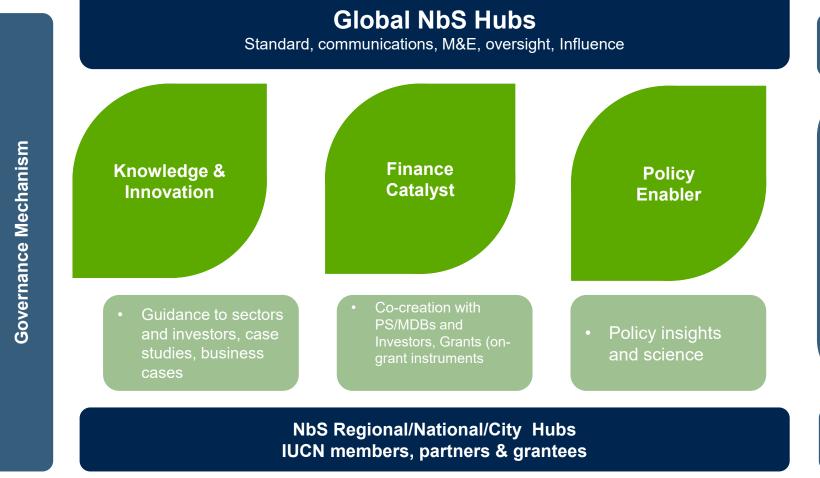




Linking Global and Regional Hubs to Scale up NbS



The nature of progress

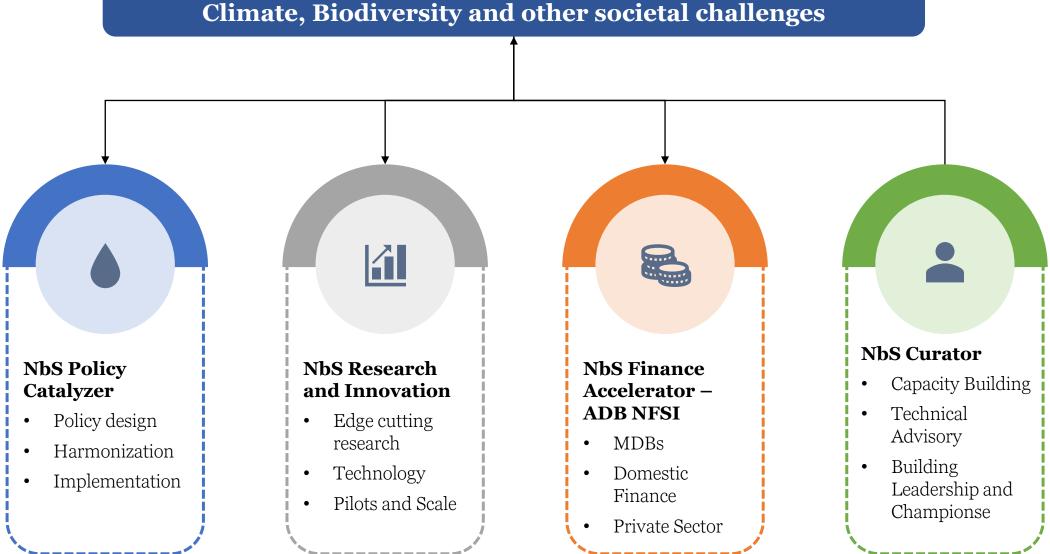


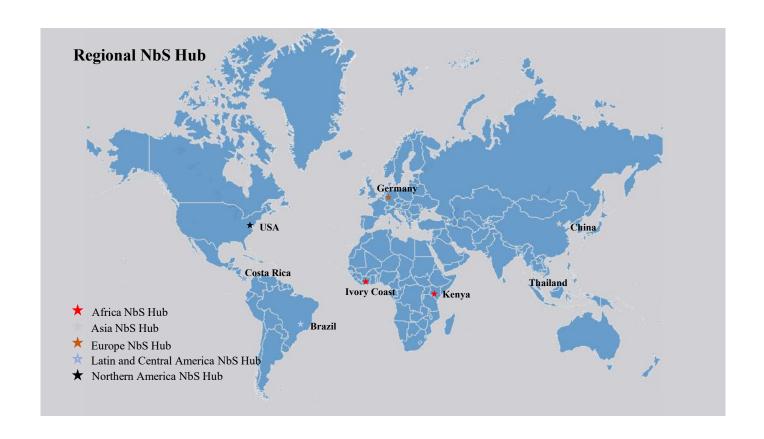
Implementation **Delivery Instruments** Develop Design Accelerate Execution



NbS Regional Hubs will Support the Scale Up of NbS

Accelerating Implementation of Effective NbS to address Climate, Biodiversity and other societal challenges









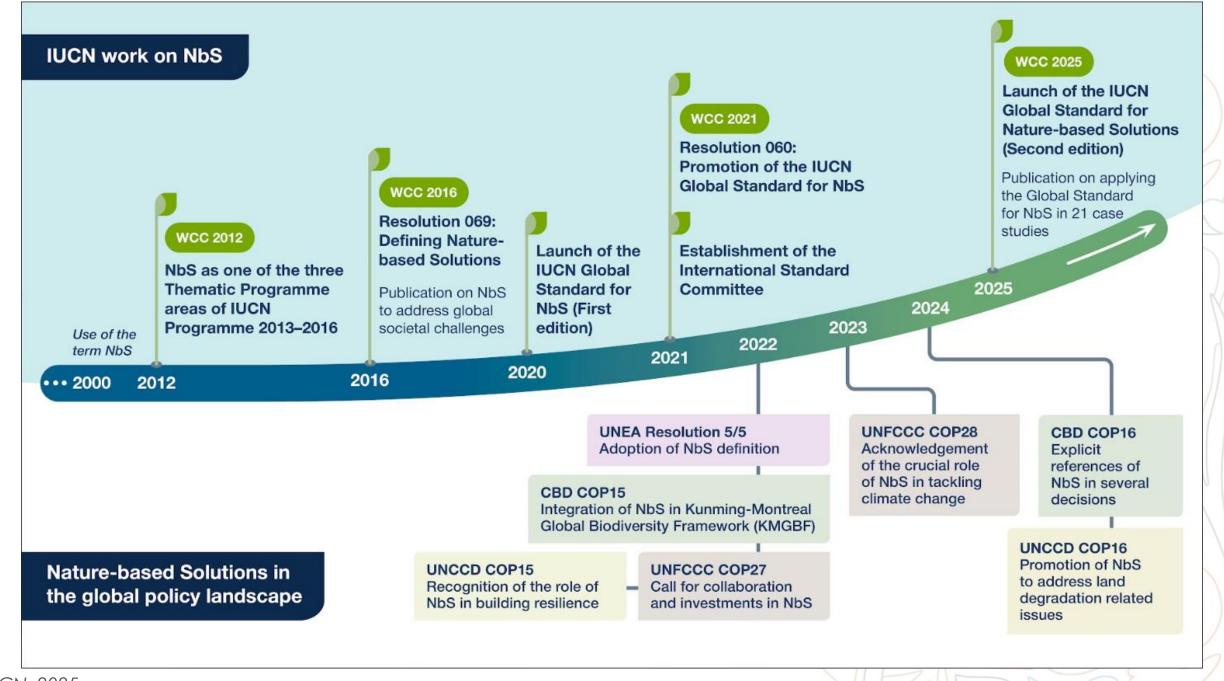








Federal Ministry for the Environment, Climate Action, Nature Conservation and Nuclear Safety







Defining NbS

NbS are defined as "actions to protect, conserve, restore, sustainably use and manage natural or modified **terrestrial**, freshwater, coastal and marine ecosystems, which address social, economic and environmental challenges effectively and adaptively, while simultaneously providing human well-being, ecosystem services and **resilience** and biodiversity benefits."

-WCC 2016, Resolution 069

-UNEA-5 2020 Resolution



Building on decades of work

1. Ecosystem restoration approaches



2. Issue-specific ecosystem-related



3. Infrastructure-related approaches

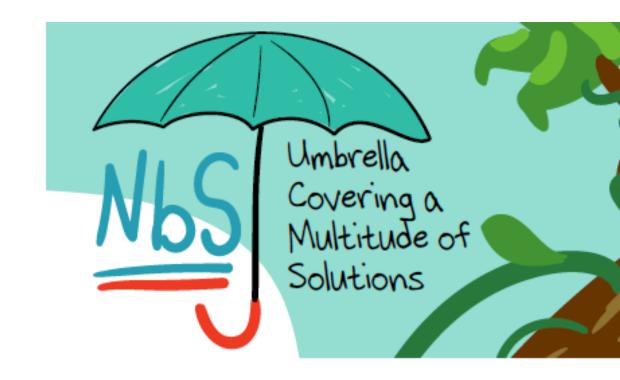


4. Ecosystem-based management



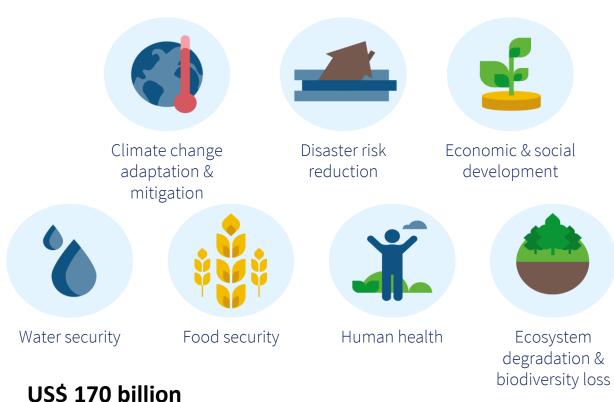
5. Ecosystem protection approaches







NbS have significant potential to address our societal challenges



US\$ 170 billion

Estimated global benefits in ecosystem services from Naturebased Solutions focused on climate



37%

Amount of climate mitigation Nature-based Solutions can contribute to meeting Paris climate goal



The Global Imperative to accelerate Nature-Based Solutions



Nature-based solutions could mitigate 10-12 gigatonnes of CO_2 annually—roughly one-third of required reductions to meet $1.5^{\circ}C$ climate goals. This includes afforestation, reforestation, peatland restoration, and mangrove conservation.



NbS provide multi-dimensional benefits: enhancing biodiversity, regulating water cycles, reducing urban heat, and supporting livelihoods, especially in vulnerable regions.



Only ~3% of global climate finance goes to NbS, despite estimates showing \$1 invested can return \$4 in socio-economic and environmental benefits.



Recent COP decisions and IPCC guidance recognize NbS as vital. UNFCCC, UNCBD, UNCCD



Valuing Nature-Based Solutions

High return on investment - For every \$1 invested in NbS, there is an estimated return of \$4 in avoided costs, improved health, and economic co-benefits.

Job creation through restoration - NbS can generate more jobs per dollar than traditional infrastructure. Ecosystem restoration projects support both skilled and community-level employment.



Natural capital integration - Valuing ecosystems in economic and infrastructure planning ensures that NbS are treated as assets, not externalities.

Private sector mobilization needed - Investment in NbS remains dominated by public finance. Incentives, policy signals, and blended finance are needed to scale private involvement.



Asia's Untapped NbS Potential

Asia tropical forests, peatlands, and mangroves represents 30% of global NbS mitigation potential.

Rapid urbanization, deforestation, and wetland loss are degrading natural systems

Despite high potential, national climate strategies often underprioritize NbS. Limited domestic and international finance hampers large-scale deployment.

Integration of NbS into climate adaptation and biodiversity policies is increasing with over 130 countries include NbS in their NDCs, signalling a global push for ecosystem-based climate action.

What are Nature-based Solutions (NbS)?

NbS are defined by IUCN as "actions to address societal challenges through the protection, sustainable management and restoration of ecosystems, benefiting both biodiversity and human well-being." They use the power of nature and functioning ecosystems as infrastructure to provide natural services to benefit society and the environment.

NbS have prime potential to help address global challenges such as:



climate change



economic and social development



human health



food and water security



disaster risk reduction



ecosystem degradation



biodiversity loss

NbS can provide long-term environmental, societal and economic benefits:



adaptation to climate change



green jobs



community resilience



health benefits



healthy and accessible food



clean air and water



disaster risk reduction



ecosystem integrity

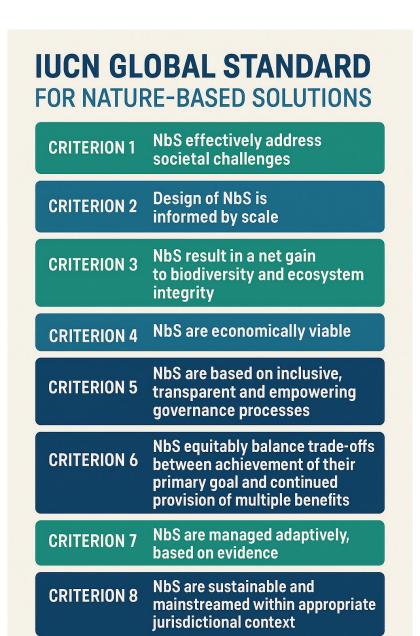


biodiversity net gain



Risks and Integrity in Nature-Based Solutions

- NbS carbon claims can be overstated or non-permanent. Strong MRV systems and long-term stewardship are essential.
- Poorly designed NbS may involve monocultures or exotic species that harm local ecosystems. Ecological integrity must be central.
- NbS must respect indigenous land tenure and local governance to avoid displacement and inequitable outcomes.



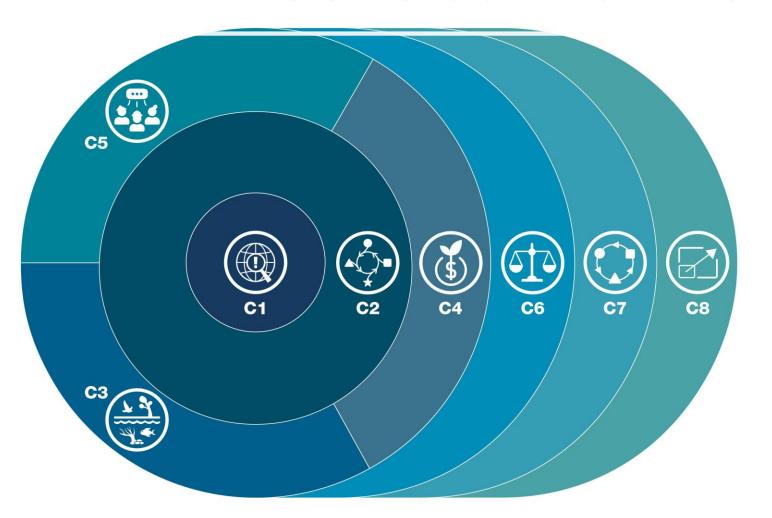


IUCN Global Standard on Nature-based Solutions™



The nature of progress

8 Criteria and 28 indicators



C1 3 Indicators

C2 3 Indicators

C3 4 Indicators

C4 3 Indicators

C5 5 Indicators (one optional)

C6 3 Indicators

C7 3 Indicators

C8 3 Indicators





C2. Integrated systems perspective



C4. Financial feasibility and economic justification

C3. Enhanced biodiversity,

ecosystem integrity and connectivity



C5. Inclusive governance and equity



C6. Balancing goals and impacts



C7. Adaptive management



C8. Enhancing sustainability and mainstreaming



C1. Societal challenges

- 1.1 The societal challenges addressed are clearly identified, understood, and documented
- 1.2 Prioritise societal challenges
- 1.3 Identify, benchmark and assess NbS outcomes for people and nature



C4. Financial feasibility and economic justification

- 4.1 Understand and document the distribution of financial and societal costs and benefits to ensure distributional equity
- 4.2 NbS are economically and financially justifiable against alternative solutions
- 4.3 Identify and secure financial mechanisms to ensure NbS long-term viability



C7. Adaptive management

- 7.1 Define and make explicit the assumptions on how desired NbS outcomes are achieved
- 7.2 Periodically test the validity of the assumptions
- 7.3 Define and implement the necessary changes to the management of the NbS through an inclusive and participatory approach



C2. Integrated systems perspective

- **2.1** Recognise and respond to interactions between the economy, society, ecosystems, and cultural norms
- 2.2 Seek synergies across sectors and with complementary interventions
- 2.3 Incorporate risk identification and management



C5. Inclusive governance and equity

- 5.1 Identify and invite stakeholders, rights-holders, and Indigenous peoples to participate in all processes
- 5.2 Grievance and conflict resolution mechanism are available, accessible and implemented
- 5.3 NbS are based on inclusive participation, mutual respect, and equality
- 5.4 Decision-making processes document and respond to the rights and interests of affected stakeholders, rightsholders, and IPLCs
- 5.5 Establish mechanisms for joint decision-making beyond NbS jurisdictional boundaries (optional)



23. Enhanced biodiversity, ecosystem integrity and connectivity

- 3.1 Identify, assess, and document the state of ecosystems, and drivers of ecosystem degradation and biodiversity loss
- 3.2 Identify, assess, and document opportunities to enhance ecosystem integrity
- 3.3 Identify, benchmark, assess, and review measurable biodiversity outcomes, according to evidence-based assessments
- 3.4 Periodically assess and address unintended consequences on nature arising from the NbS



C6. Balancing goals and impacts

- 6.1 Establish safeguards and associated corrective actions to address the intended and unintended negative social or environmental impacts of NbS
- **6.2** Document, make available and accessible, and implement safeguards and corrective actions
- 6.3 Periodically review safeguards and corrective action



C8. Enhancing sustainability and mainstreaming

- 8.1 Capture and document lessons learnt from NbS design and implementation
- 8.2 NbS inform and enhance the policy, finance and regulatory frameworks enabling their mainstreaming
- 8.3 NbS contribute to relevant jurisdictional environmental, economic, and social targets and frameworks participatory approach



Updated
Global
Standard for
NbS





Scaling Nature-Based Solutions

- Act with urgency and integrity: Delays reduce options. High-integrity, science-based NbS must be accelerated now to align with 2030 and 2050 climate goals.
- Empower local communities: Community-led NbS ensures cultural relevance, local buy-in, and long-term stewardship for lasting climate resilience.
- Foster cross-sector collaboration: Academia, government, business, and civil society must coordinate to align NbS with climate, biodiversity, and SDG frameworks.
- Invest in education and youth leadership: Build the next generation of climate and ecological stewards through training, mentorship, and hands-on projects.





Opportunities for Academic ccontributions to Nature-Based Solutions

Research on ecosystem services and valuation Universities are advancing methods for quantifying climate, biodiversity, and economic benefits of NbS through interdisciplinary studies.

Curriculum integration

Environmental science, urban planning, and public policy programs are incorporating NbS into teaching, training future practitioners.

Student-led restoration projects

Campus greening, mangrove replanting, and biodiversity mapping initiatives are engaging students as active climate participants.

Policy advisory and global partnerships

Academics support government and international frameworks with evidence-based recommendations on NbS design and governance.

