

Our experience in mobilising nature based solutions James Dalton Head, Water and Land Management Team



NbS have significant potential to address our societal challenges

US\$ 57 billion

Flooding damages averted by mangroves in China, India, Mexico, US and Viet Nam each year



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37% Amount of climate mitigation nature-based solutions can contribute to meeting Paris climate goal

#### US\$ 170 billion

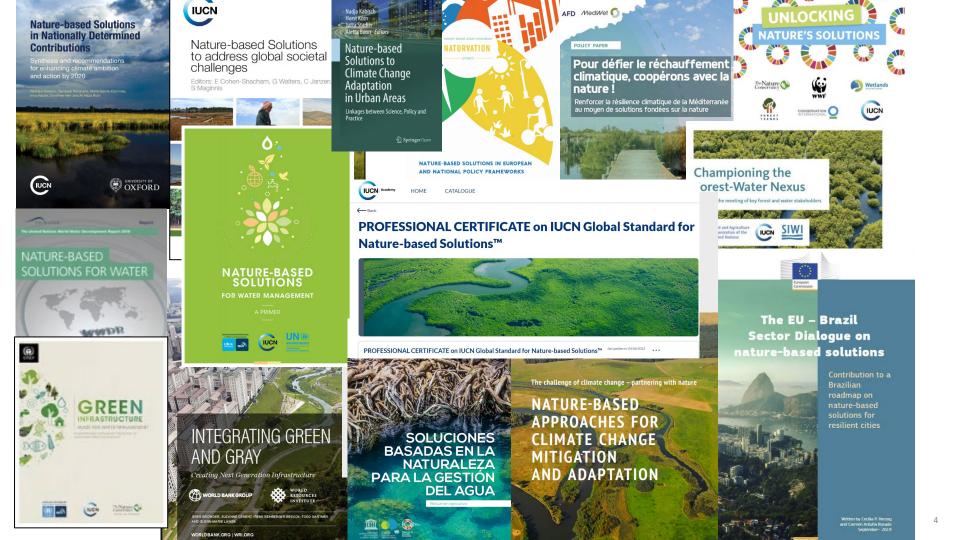
Estimated global benefits in ecosystem services from naturebased solutions focused on climate

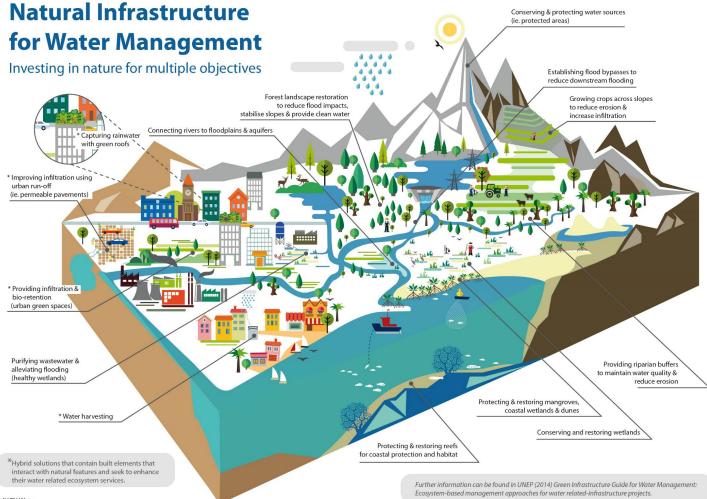
# A problem solving approach for sustainable development



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NBS builds on an established track record:- e.g. Landscape Restoration and public policy influence



**63+** regulatory mechanisms, reassigned subsidies and other government-supported initiatives after the Bonn Challenge commitment was made

~US\$ 11.2 billion invested in FLR (80% domestic funding)

1.379 billion tonnes of CO2eq sequestered over a decade

Real re-orientation of public sector financing to **reduce transaction costs** and improve private investment **options** 



62 country commitments 172.35 million ha pledged

<sup>1</sup>/<sub>2</sub> billion ha assessed

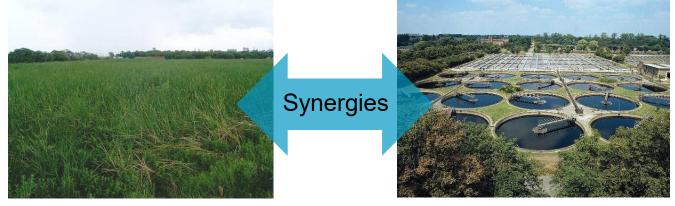
of 13 countries reporting on progress

**43.7** million ha under restoration (56% of commitments)

354,000 jobs created or secured



# Hybrid approaches, utilizing a combination of natural and grey infrastructure



### Natural infrastructure

### Grey infrastructure

INTERN INTERNATIONAL UNION FOR CONSERVATION OF NATURE

#### What do Nature-based Solutions look like?





Protection – Switzerland, since the 19<sup>th</sup> century



Restoration - Loess Plateau, China, 1994





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## Building on decades of work



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#### 1. Ecosystem restoration approaches FLR ER EE 2. Issue-specific ecosystem-related EbA EbM Eco-DRR 3. Infrastructure-related approaches NI 4. Ecosystem-based management EbMgt 5. Ecosystem protection approaches AbC



### The IUCN Global Standard on NbS<sup>™</sup>



Societal challenges Design at scale **Biodiversity net** Economic feasibility gain Inclusive governance Balance trade-Adaptive Mainstreaming offs for management 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
- Translated by partners into 7 languages so far, including in Chinese by Ministry for Natural Resources, China

### How do you use the Standard?



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#### Uses of the self-assessment sheet:

- Assess whether an intervention/proposal adheres to the Standard
- Inform internal and external stakeholders on the means of verification in place/used (or lack of) to measure the indicators
- Identify areas for improvement



#### IUCN What does the Standard look like? Nature based **Solutions** 🖻 🖯 🗟 ŵ -9 a DRAFT NbS self assessment pilot v3 - protected - Excel The Standa Page Lavout Formulas Data Review View The nature of progress with brief g X Cut 🖶 Wrap Text Calibri + 12 General indicators. Copy . Paste Conditional Format as Cell → Herge & Center \$ - % €.0 .00 💉 Format Painter Formatting - Table - Styles informative Clipboard 5 Font Ex. Alignment Es. Number E. Styles photo exar J4 fx Recommendations, opportunities and challenges D A G 2 Criterion 1: NbS effectively address one or more societal challenges 3 4 Indica How well has the indicator been met? Indicator **Guiding questions** or No. Strong Adequate Partial The most pressing Are societal challenges identified? Are rights Specific societal challenges Yes. The most pressing societal General societal challenges No. No clear societal challenges o Criteria societal challenges for holders and beneficiaries consulted? Are the challenges prioritized based on ful dentified with some consultation identified with limited input from identified and/or no consultation 11 rights holders and most pressing societal challenges for rights consultation with rights holders with rights holders and some rights holders and with any rights holders and and beneficiaries. beneficiaries. beneficiaries only. beneficiaries. beneficiaries are holders and beneficiaries prioritised? prioritised 6 7 Are the drivers and responses to the societal Yes. The drivers of and response Drivers of and responses to No. Superficial/limited ocietal challenges framed in term to identified societal challenges identified societal challenges are The societal challenges challenges identified? Are the societal consistent with widely accepted understanding of drivers of and is, each with 2 addresses the fact that even if the execution are well understood, including wit broadly understood within the addressed are clearly challenges understood at the relevant narratives but multiple responses to identified societal ngly build on of the solution is at a site level or smaller scale, 1.2 reference to the relevant relevant context although some documentation and contextchallenges with limited or no understood and national/local context? Are the societal ational/local context, and are full documentation and knowledge adhark from the larger scale level considerations can greatly specific knowledge gaps persist documentation. documented challenges documented and accessible to gaps persist. documented and accessible. inform the robustness and durability of the affected stakeholders? 8 solution, beyond its implementation. Oriteria 3. 9 4 and 5 outline processes that can enhance the determining chances of positive outcomes for biodiversity. holders and Are human wellbeing outcomes relevant to the abilitize as society and the economy, However, in order to Yes, SMART human well-being Specific human well-being identified societal challenges identified? Are achieve these three Criteria with respect to both coportunties outcomes and benchmarks, outcomes and benchmarks. Human wellbeing General human well-being No. Human well-being outcomes there benchmarks in place to monitor impact? relevant to the identified societal relevant to the identified societal the solution immediate, short-term and long-term outcomes outcomes arising from outcomes and benchmarks are not identified or are vague and Are outcomes and benchmarks assessed at challenges and national/local challenges and national/local trade-offs need to be determined and made taking into 13 the NbS are identified. identified but no provision has II defined with no benchmarks and context, are identified and are context, are identified and regularly occurring intervals? Are human onomic and which are directly addressed in Otherion 6. In been made for their assessment. no provision for assessment. benchmarked and assessed at regularly occurring ssessed at least once during t wellbeing outcomes incorporated into the he challenge order to give this issue visibility and importance. periodically assessed intervals. intervention period. strategy for the intervention? The decision-making processes for any trade-2. Criterion 10 offs that are made need to be transparent and 11 equitable and could be within the context of 12 one or more of Criteria 1, 4 and 5. In addition, principles of adaptive management underplaned Distants in Mid effectively entries review/ challenge by a theory of charge and berative learning processes, as per Criterion 7, can also enhance

the success of NoS. Criterion 8 focuses on

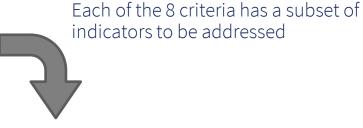
Societal challenges:

## **Measure of standard adherence**



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Criterion 3. NbS result in net gain to biodiversity and ecosystem integrity



Indicator 3.1 NbS actions directly respond to evidence-based assessment of the current state of the ecosystem and prevailing drivers of degradation and loss

Strong

Adequate Partial

Insufficient

The adherence of the intervention to each indicator is rated

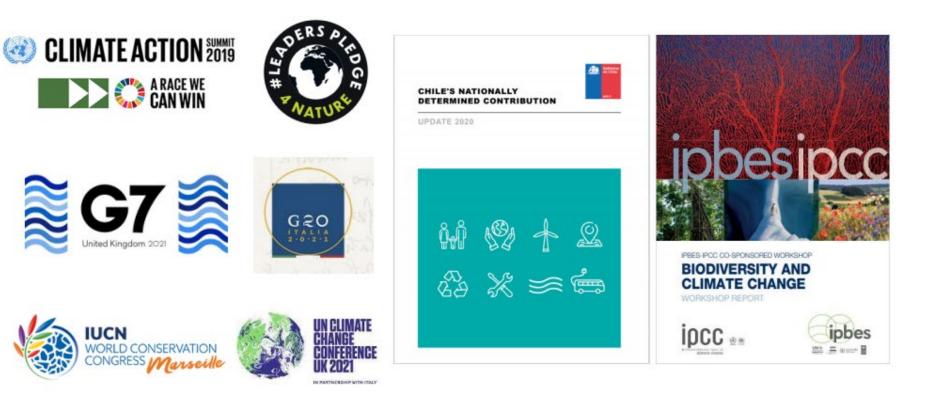


Giving an overall output of whether the intervention is in adherence with the Standard and how strong that adherence is

| Кеу          | Output  |
|--------------|---|
| Strong       |   |
| Adequate     | Intevention adheres to the IUCN Global Standard for NbS.          |
| Partial      |   |
| Insufficient | Intervention does not adhere to the IUCN Global Standard for NbS. |

### Growing recognition in global policy circles





### Growing momentum behind NbS – partnerships for action

SUSTAINABLE

PARTNERSHIP

THE SDGS

wbcsd

**Boskalis** 

Nature-Based Solutions

Innovating for Forest Ecosystem Services

United Nations

BUSINESS

FOR NATURE

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WHO WE ARE

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PARTICIPATION TAKE ACTION

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NATURE-BASED INFRASTRUCTURE GLOBAL RESOURCE CENTRE

Nature-based solutions and Shell | New Energies

### Cerrado Water Consortium, Brazil

A multi-stakeholder group addressing ecosystem degradation at scale.

- A key biodiversity hotspot threatened by unsustainable agriculture, affecting soils and water supplies.
- ➤ The region produces 12% of the country's coffee and 40% of its freshwater. The Consortium's focuses on the Feio River Basin.

# Public-private investments supporting multiple benefits for nature and people.

- Investment from: 36 local coffee producers & international coffee companies, the trading company Expocaccer, IUCN, NGOs and the Critical Ecosystem Partnership Fund.
- The region's water and sanitation utility provide 0.5% of annual public revenue to assist the Consortium as a key public commitment to this private led initiative.

The Consortium's interventions focus on agro-forestry, restoration of soil, restoring landscape habitats and climate change adaptation for the producers.





### **Enabling finance : public and private**





Nature+ Accelerator Fund

#### Innovation and pipeline

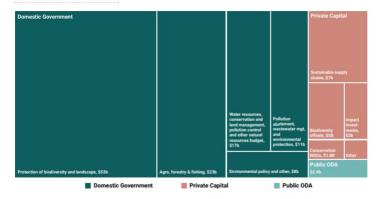
development

Commercially operated blended fund with a US\$ 200M portfolio of NbS projects and TA



Scaling and mainstreaming NbS into climate investments US\$ 750M equity fund and US\$ 28M TA

#### **Classification of NbS finance**



#### .....

Note: These figures are the midpoint between the lower and upper bounds of annual investment. Source: Vivid Economics, adapted from OECD, IMF and other public data sources listed in the Annex. BNCFF Blue Natural Capital Financing Facility Support for costal investments One its kind TA for coastal NbS projects



#### Fast-track support to upscaling EbA Rapid and targeted grants to innovative and catalytic projects



#### **1 billion USD\$ investment in NbS**



IUCN 💐

LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG Ministère de l'Environnement, du Climat et du Développement durable Blue Natural Capital Financing Facility – applying nature-based solutions to socio-environmental challenges

### **Current Challenges**



- Shortfall in both viable pipeline of projects/investments, and questions over performance due to governance challenges, poor monitoring
- Learning is improving, and brings the opportunity to apply tacgics and approaches for learning, indicator review and development
- Research shows that there is a **lack of cross-sectoral policy coherence** REDD has taught us this, and the Bonn Challenge has, and is, trying to address this acceleration in NBS investment requires **acceleration in policy coherence**.
- Integration needs to improve within sectors, within technical interventions, with investments where NBS can provide hybrid solutions as a compliment to existing investments is where success is likely this is improving quickly
- The need for NBS interventions to better consider landscape possibilities, scale efficiencies that can be gained through **new partnerships**

Thank you for your attention. For more information:



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