Nature Investments Workshop

14 November 2023



Agenda

- Opening Remarks Joan van Heijster, Coalition Co-Chair Sherpa Representative from The Netherlands, Policy Advisor International Financial Institutions at Ministry of Finance
- Nature Investments Lessons Learned from 2022 Coalition Nature report – Pekka Moren, Special Representative on Climate Action, Finland's Finance Ministry
- Scaling up Nature-related Investments -Fiona Stewart, Lead Financial Sector Specialist, World Bank
- TNFD's <u>final recommendations on nature-related issues</u> Thomas Viegas, Partnerships Lead, TNFD

• Sustainable debt and private sector perspective - Slav Gatchev, Managing Director, Sustainable Debt, The Nature Conservancy







Nature loss & climate change are inter-related

Neither crisis can be successfully resolved unless both are tackled together.





IPBES-IPCC CO-SPONSORED WORKSHOP BIODIVERSITY AND CLIMATE CHANGE

WORKSHOP REPORT





Types of naturerelated risks





Potential risk transmission channels



The Coalition of Finance Ministers for Climate Action Potential policy actions for Ministries of Finance





- The roles of MoFs to manage nature-related risks differ across countries.
- However, it is important that in all countries, MoFs coordinate with relevant ministries on this agenda, as well as with the regulator, supervisor, and the central bank.

Actions for 'greening finance'



Identifying naturealigned investments Integrated climatenature financial sector policy framework or strategy

Sovereign naturerelated disclosure Corporate naturerelated disclosure and accounting

Financial institution nature transition strategies

Financial sector

regulation,

supervision, and risk

assessment

Fiduciary duty reform to promote long-term investment approach International networks on green economics/ finance

• MoFs can take steps to mobilize finance for nature – both through greening finance and driving systemic change

• Targeted policy, regulation, and guidance can ensure systematic integration of nature risk and opportunities in financial decisions and align financial flows with nature targets.

Actions for 'financing green'



Environmental taxes & tradable permits	Payments for ecosystem services programs	Common asset trusts	Sovereign green & sustainability-linked bonds
Debt for nature swaps	Sub-national access to bond markets and support to issue green bonds	Nature investment plans	Protected areas as anchor investments
Investment in global public goods	Blended finance, incubators, & accelerators	Data & decision support tools	Robust & transparent private sector net zero commitments

• MoFs can develop and implement tools and incentives that contribute to the alignment of economic activity and financial flows with nature goals and nature-related risk reduction.

Scaling Nature Investments

Fiona Stewart, Lead Financial Sector Specialist, World Bank



Linking Nature Macro Models to **Financial Sector**

- Central bank nature risk assessments 1.
- 2. Credit rating country risk assessments
- 3. Financial instruments with performance payouts

Global Risks Report 2023

Top 10 Risks

"Please estimate the likely impact (severity) of the following risks over a 2-year and 10-year period"

2 years

- Natural disasters and extreme weather 2 З 4 ailure to mitigate climate change rosion of social cohesion and 5 arge-scale environmental mage incidents ailure of climate-change adaption Widespread cybercrime and 8 yber insecurity
- 9
- 10 arge-scale involuntary migration

10 years

2

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4

5

6

8

9

Failure to mitigate climate change Failure of climate-change adaption Natural disasters and extreme weather events Biodiversity loss and ecosystem collapse arge-scale involuntary migration Natural resource crises Widespread cybercrime and cyber nsecurity _arge-scale environmental damage 10

WORLD ECONOMIC FORUM

Risk categories

Economic Environmental

Technological Geopolitical Societal

Source: World Economic Forum, Global Risks Perception Survey 2022-2023



1. Nature risk assessments

- Founded on nature macro modeling
- A nature-risk exposure assessment for Malaysia was conducted together with Bank Negara Malaysia
 - <u>An Exploration of Nature-Related Financial Risks in</u> <u>Malaysia</u>
 - 54% of commercial lending from Malaysian banks is exposed to nature-related financial risks and 87% is exposed to sectors that strongly impact ecosystem services
- More countries in the pipeline going forward
- Leading the nature risk scenario working group Network for Greening Financial Sector (NGFS)



2. Credit Rating Agency (CRA) risk assessments etc.

- CRAs starting to incorporate natural assets and nature degradation into their country risk assessments – looking for more data and policy analysis from WB experts
- FTSE Russell major global index provider with trillions of assets passively invested against their indices – adjusted <u>Sovereign ESG methodology</u> to incorporate WB analysis (income-bias / natural capital) - >\$2billion shift funds allocated EMDEs with higher natural capital assets
- Natural capital and wealth data available via widely-used WB <u>Sovereign ESG Data Portal</u>







3. Performance-related instruments

- Sustainability-linked bonds (SLBs) pay out (interest rate) depends on issuer meeting key-performance indicators (KPIs)
- Uruguay issued 1st SLB with nature KPI (natural forest cover)
- WB Global Program on Sustainability (GPS) team devised <u>FAB</u> <u>framework for measuring ambition and feasibility</u> of sovereign KPI targets



to no effort and may have been reached in any case

Uruguay's Sovereign Sustainability-Linked Bond

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(SSLB) Framework FOR SUSTAINABILITY-LINKED BONDS FOCUSED ON CLIMATE ANI NATURE-BASED TARGETS



Nature financing instruments



Туре	Instrument		
Policy	Fiscal and financial reform, taxes, fees, fines, penalties		
Debt	MDB Concessional loans		
	MDB Non-Concessional loans		
	MDB Guarantees/ risk transfers		
	Social, Green/SDG Bonds ["] Use of Proceeds" Bonds		
	Sustainability-linked Bonds (KPIs linked Bond)		
	Sustainability-linked loans		
	Debt for Climate and Nature (DFCN) Project Swap		
	DFCN programmatic swap		
	Asset-backed securities (ABS, green securitization)		
Non-Debt	Grants		
	Insurance: Catastrophe bonds		
	Biodiversity offsets		
	Carbon offsets		
	Green commodity private equity fund		
	Natural Asset Companies (NACs, publicly traded equity)		
	Private Sector Green Value-chain Initiatives		

Replicating Rhinos

- CORAL BOND?
- MANGROVE BOND?
- BLUE WHALE BOND?



Monetization of nature?





¿How to monetize and attract investments in Ecosystem Services?

Nature-Backed Securities (NBS)

Elias Albagli Director of Monetary Policy Division & Chief Economist Central Bank of Chile World Economic Forum Annual Meeting Learn more >

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How biodiversity credits can deliver benefits for business, nature and local communities

Dec 9, 2022

P Facility

HOME / NEWS & EVENTS / CORAL REEF INSURANCE - PROTECTION IS NECESSARY AND POSSIBLE

Coral reef insurance - protection is necessary and possible

POSTED ON SEPTEMBER 30, 2022

The TNFD recommendations & additional guidance

The Coalition of Finance Ministers for Climate Action: Nature Investments workshop

Thomas Viegas, TNFD Partnerships Lead

14 November 2023



Taskforce on Nature-related Financial Disclosures



The TNFD Recommendations and Additional Guidance



Approach to disclosure: Consistent with TCFD, ISSB, GRI & GBF



- Same structure, language and approach as TCFD
- Consistent with ISSB's IFRS-S1 General Requirements and GRI requirements
- Aligned with GBF as naturerelated risks, dependencies and impacts all covered
- The TNFD's general requirements are designed to ensure consistency in the information disclosed by report preparers

The recommended disclosures: Building, advancing and integrating





TNFD recommended disclosures



- 14 recommended disclosures.
 Same structure, language and approach as TCFD, and organised around four pillars.
- All 11 TCFD recommended disclosures carried over
 - Build on existing market practice, and encourage integrated (climate+nature) reporting
 - 3 further disclosures added, covering three important areas for nature:
 - Engagement
 - Sensitive locations
 - Value chains

Providing a focused & flexible set of 'leading indicators'

- Extensive input from knowledge partners
- Market user concerns about metrics in use today – time lags, consistency and comparability
- 'Leading indicators' approach necessary for disclosure – as with company financial accounts and national economic accounts
- For disclosure metrics, a threetiered approach to provide comparability (for report users) and flexibility (for report preparers)



The recommended disclosures: Guidance for financial institutions







TNFD recommended disclosures

Governance	Strategy	Risk & impact management	Metrics & targets
Disclose the organisation's governance of nature-related dependencies, impacts, risks and opportunities.	Disclose the effects of nature-related dependencies, impacts, risks and opportunities on the organisation's business model, strategy and financial planning where such information is material.	Describe the processes used by the organisation to identify, assess, prioritise and monitor nature-related dependencies, impacts, risks and opportunities.	Disclose the metrics and targets used to assess and manage material nature-related dependencies, impacts, risks and opportunities.
Recommended disclosures	Recommended disclosures	Recommended disclosures	Recommended disclosures
 A. Describe the board's oversight of nature-related dependencies, impacts, risks and opportunities. B. Describe management's role in assessing and managing nature-related dependencies, impacts, risks and opportunities. C. Describe the organisation's human rights policies and engagement activities, and oversight by the board and management, with respect to Indigenous Peoples, Local Communities. 	 A. Describe the nature-related dependencies, impacts, risks and opportunities the organisation has identified over the short, medium and long term. B. Describe the effect nature-related dependencies, impacts, risks and opportunities have had on the organisation's business model, value chain, strategy and financial planning, as well as any transition plans or analysis in place. C. Describe the resilience of the organisation's strategy 	 A(i) Describe the organisation's processes for identifying, assessing and prioritising nature-related dependencies, impacts, risks and opportunities in its direct operations. A(ii) Describe the organisation's processes for identifying, assessing and prioritising nature-related dependencies, impacts, risks and opportunities in its upstream and downstream value chain(s). B. Describe the organisation's 	 A. Disclose the metrics used by the organisation to assess and manage material nature-related risks and opportunities in line with its strategy and risk management process. B. Disclose the metrics used by the organisation to assess and manage dependencies and impacts on nature. C. Describe the targets and goals used by the organisation to manage nature-related dependencies, impacts, risks and opportunities and its performance against these.
other stakeholders, in the organisation's assessment of, and response to, nature-related dependencies, impacts, risks and opportunities.	the organisation's strategy to nature-related risks and opportunities, taking into consideration different scenarios.	B. Describe the organisation's processes for managing nature-related dependencies, impacts, risks and opportunities.	penormance against these.
	D. Disclose the locations of assets and/or activities in the organisation's direct operations and, where possible, upstream and downstream value chain(s) that meet the criteria for priority	C. Describe how processes for identifying, assessing, prioritising and monitoring nature-related risks are integrated into and inform the organisation's overall risk	

management processes

locations

Highlights

- Additional disclosure guidance for • financial institutions for each recommended disclosure, where appropriate
- It can be used by banks, insurance companies, asset managers and owners, and development finance institutions
- Two draft core disclosure metrics proposed and open for consultation and feedback

Additional guidance – the LEAP approach

Metrics and Targets B







Risk and Impact Management B

Risk and Impact Management C Metrics and Target A Metrics and Targets B Metrics and Targets C

Highlights

- Suggested guidance not required to make TNFD disclosures
- It can also help organisations operating in jurisdictions where standards and regulation on nature are emerging e.g. EU's CSRD

Review

and

repeat

- Designed as a reference manual for an internal assessment team
- Extensive market feedback and pilot tested by over 240 institutions across sectors, geographies and biomes.

Additional guidance – Incorporation of pilot testing insights



Box 11: An asset manager's Locate analysis for deforestation risk - Storebrand

Storebrand is one of the largest private asset managers in the Nordic region, with over NOK 1,000 billion invested in more than 5,000 companies around the world.

Deforestation has been an early area of focus for Storebrand's na deforestation policy implemented in 2019 and a target of zero de 2025. As part of this commitment, Storebrand will not knowingly



sourcing boundaries with available data on forested areas (Starling Satellite), peatlands

nistry of Environment and Forestry) and customary lands (Ancestral Domain Registration

). This enabled a better understanding of where sourcing areas overlap with areas of high

sk, conversion risk, or associated human rights impacts

Box 18: Identifying dependencies on ecosystem services to an asset-centric materiality analysis – AXA Climate

AXA Climate is part of the AXA Group, piloting the TNFD framework with AXA Investment Management. For this initial pilot, the group looked into the viticulture sector, given its dependency to ecosystem services, including provisioning (e.g. clean water, energy), regulating (e.g. climate, soil health, biodiversity), and cultural services (e.g. supporting identities, promoting goodwill). However, vine growing, like any monoculture system, is highly vulnerable to vine diseases, pests, biodiversity loss, wildlife habitat degradation, and soil degradation. By assessing vine cultivation as well as its supply chain, valuable insights can be gained into the company's dependencies, impacts and potential action plans to effectively manage and mitigate risks.

For example, in the case of our wine industry company with vineyards across Europe, using the ENCORE methodology and propriety analyses allows for mapping dependencies and impacts at each location based on business activity information. This analysis considers factors such as the availability, quality and accessibility of ecosystem services, as well as the potential risks or vulnerabilities associated with their availability.

Synthesis of the dependencies on ecosystem services based on the sector of the assets



Highlights

- Valuable and practical insights from corporates and financial institutions
- Examples of outputs generated (e.g. heatmaps)
- Tips on data sources used and constraints experienced
- Innovative ways to overcome value chain data dependencies
- Links to TNFD Tools Catalogue

Case studies from Storebrand, Nestle, AXA, and more

Additional guidance – Sector guidance and Biome guidance





ith proposed metrics in this discussion pape D Additional Guidance for Financial Institutions

omobiles							
parts	Realms				Environmental asse	its	
rital 8 sing		0		\bigcirc	Atmosoheric systems	Underwater mineral and energy resources	Marine (ocean) ecosystems
e lines	Land Biomes	Freshwater	Ocean	Atmosphere	Renewable energy resources	Land	Terrestrial (land based) ecosystems
trans-	Tropical and sub-tropical forests (T1)	Rivers and streams (F1)	Marine shelf (M1)		Cultivated	Mineral and energy	Water resources
ins-	Temperate boreal forests and woodlands (T2)	Lakes (F2)	Open ocean waters (M2)		subterranean	resources	
s- n 1s-	Shrublands and shrubby woodlands (T3)	Artificial wetlands (F3)	Deep sea floors (M3)		ecosystems Ecosystem services		
on	Savannas and grasslands (T4)	Vegetated wetlands (TF1)	Artificial marine systems (M4)		Provisioning service		
	Deserts and semi	Subterranean	Subterranean		Water supply	Genetic material	Biomass provisioning
	deserts (T5) Polar/alpine	freshwaters (SF1) Artificial	tidal (SM1) Shoreline		Regulating 6 mainte		Soil and
	(T8)	subterranean freshwaters (SF2) Subterranean	systems (MT1)		Polination	Biological control	sediment retention
	Intensive land use systems (T7)	cave and rock systems (S1)	Maritime vegetation (MT2)		Flood mitigation	Water flow regulation	Rainfall pattern regulation
	Artificial subternanean spaces (S2)		Artificial shorelines (MT3)		Local (micro and meso) climate regulation	Global climate regulation	Nursery population and habitat maintenance
			Coastal inlets and lagoons (FM1)		Solid waste remediation	Soil quality regulation	Storm mitigation
			Brackish tidal systems (MFT1)		Water purification	Airfiltration	Noise attenuation
					Other regulating and maintenance services		
					Cultural services		
					Recreation- related services	Visual amenity services	Education, scientific and research services
					Other cultural services	Spiritual, artistic and symbolic services	

- On Sector guidance:
 - Other real economy sector guidance documents on LEAP approach being prepared
 - Plan to start publishing draft sector guides in November for feedback and finalise in 2024
- **On Biome Guidance:**
 - key knowledge development for market participants given placebased context for nature-related issues
 - Intended as a reference source to supplement LEAP assessment
 - Will be expanded in 2024 based on market interest

Additional guidance – Getting Started with the TNFD recommendations



T N Teshforce on Nature-rel F D Financial Disclosures





239 responses from companies and financial institutions across 11 sectors, headquartered in 36 countries.

- Developed with input from a range of leading business and finance organisations (including UNEP FI, PRI, WBCSD, WEF and others)
- Key steps for an organisation to consider when getting started with the TNFD Recommendations
- Practical considerations when developing TNFD-aligned disclosures
- Insights from a 2023 Global Survey of organisations on adoption of the TNFD Recommendations

Time to get started – TNFD Adopters campaign

Highlights

- Based on the extensive market engagement and global survey results, the TNFD and partners are rallying early TNFD Adopters
- Those organisations that are ready \bullet to start adopting the TNFD recommendations and reporting in their financial reporting package for either FY2024 <u>or</u> FY2025 outcomes
- Cohort of early adopters to be ulletannounced in January 2024 at the World Economic Forum in Davos

Become an Early Adopter of the TNFD

TNFD Adopters are organisations (report preparers) making disclosures aligned with the TNFD **Recommendations in their mainstream** annual corporate reporting.

Why nature? Why now?

Nature is now a strategic risk management issue

It is clear that nature is no longer just a corporate social responsibility issue, but a core and strategic risk management issue alongside climate change. Accelerating nature loss is increasing physical and transition risks to business and investors.

Leading companies are already preparing to adopt

Leading businesses are already starting to adopt the TNFD recommendations. 70% of companies we surveyed before the launch of the TNFD Recommendations said they were planning to start adopting by their financial year 2025.

TNFD is consistent with TCFD, ISSB and GRI approaches

The TNFD builds on the TCFD and is consistent with the ISSB. EFRAG. GRI. and CDP disclosure standards and platforms.

TNFD is aligned to global policy goals and targets

The TNFD recommendations operationalise Target 15 of the Global Biodiversity Framework.

Supporting implementation guidance and tools are already available The TNFD recommendations and guidance provide companies with the tools to get started.







From Design to Delivery – Scaling Market Adoption



Thank you for listening.

Find out more: https://tnfd.global/











Nature Bonds:

Unlocking funds for conservation + climate action



About Us

 The Nature Conservancy (TNC) is the world's largest nongovernmental conservation organization, with approximately 5,000 employees working across 79 countries.

WHY WORK WITH THE NATURE CONSERVANCY



The Triple Planetary Crisis

BIODIVERSITY LOSS>	Biomass of wild animals down by 82% -	CAUSES INCLUDE: Agriculture + infrastructure Over-exploitation Pollution Invasive species Climate change	THREATS INCLUDE: Ecosystems will be upended and human civilization destabilized	Biodiversity funding gap 700B
CLIMATE CRISIS>	Disasters cost the global economy \$2.5 T since 2000	CO₂ levels are higher (and rising faster) than any time in the past two million years	Record-breaking floods, heat, droughts, and wildfires affect billions of people globally	ncs funding gap 400BN
DEBT CRISIS>	High debt burden high-interest rates –	Reduced economic growth Increased economic and social cost Risk of default	Government is unable to invest in the country's future, including biodiversity and climate change mitigation	COUNTRIES WITH FUNDING COST ABOVE 10% 30

Why Debt Conversions Matter

- Many at/beyond debt sustainability limits
- Countries shut out of global capital markets: looming maturities
- Debt service costs crowd out ability to invest in climate/biodiversity
- Insufficient ODA, private-sector flows
- NBS require long-term opex (vs. massive front-end capex)



EM sovereign bond spreads (bps)

Bloomberg EM Sovereign USD index

Source: Tellimer Research, Bloomberg + Created with Datawrapper



Conservation Outcomes

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	Oceans New Protections (ha)	Oceans Improved Management (ha)	Funds Unlocked for Conservation
Seychelles	43,221,700	135,000,000	\$12.2M over 20 years
Belize	630,900	3,535,100	\$180M over 20 years
Barbados	5,582,400	18,689,800	\$50M over 15 years
Gabon	816,100	19,329,200	\$163M over 15 years
Total to Date	50,251,100	176,554,100	\$405.2 Million Unlocked for Conservation

Our Track Record

PILOT SCHEME: CLOSED 2016



CALCULATION OF A DESCRIPTION OF A DESCRI

NON-DISTRESSED: CLOSED 2022



Seychelles

- Deal size: \$21.6 M
- Term: 20 years
- Creditors: Bi-Lateral Debt / Paris Club
- Instrument: Private Loan + Grants
- Financing: Funded by TNC + Philanthropists
- Debt Relief: no change/increase in debt stock
- Conservation Funding: \$12.2 M
- Conservation Commitments: MSP with
 - <1% ->30% ocean protection
 - 50% in High Protection
- Other Benefits: 2018 \$15 M Blue Bond; Impact Investors, World Bank & GEF

Innovation: Funded new loan vs. bilateral debt forgiveness

Belize

- Deal size: \$364 M
- Term: 20 years
- Creditors: Eurobond (100%)
- Instrument: PRI DFC Combination of non-payment of an arbitral award + denial of justice
- TNC SubDebt
- Arranger: Credit Suisse
- Debt Relief: \$189 M principal reduction
- Conservation Funding: \$180 M
- Conservation Commitments: MSP with
 - 15.9% ->30% ocean protection
 - 15% High Protection (Replenishment Zones); 15% Medium Protection (Multi-use Zones)
- Other Benefits: Belize's credit rating was upgraded 4 notches to B-; 10 bps reduction of Debt: GDP

Innovation: Entire Eurobond refinanced (CAC), Capital markets issuance; Use of PRI

Barbados

- Deal size: \$150 M
- Term: 15 years
- Creditors: Eurobond + LC Debt
- Instrument: Co-guarantee IADB + TNC
- Arrangers: Credit Suisse (50% US\$) + CIBC (50% LC)
- \$4 M principal reduction + lower Int.
- Conservation Funding: \$50 M
- Conservation Commitments: MSP with
 - 0%->30% ocean protection
 - 15% as High Protection
- · Other Benefits: investor base diversification

LATEST TRANSACTION: CLOSED 2023



Gabon

- Deal size: \$500 M
- Term: 15 years
- Creditors: Eurobond (partial)
- Instrument: PRI DFC
 - Combination of non-payment of an arbitral award + denial of justice
- Arranger: Bank of America (100% US\$)
- Debt Stock Neutral
- Conservation Funding: \$163 M
- Conservation Commitments: MSP with
 - Up to 30% ocean protection
 - 10% as High Protection; 15% as Medium Protection
- Other Benefits: investor base diversification

Innovation: First modern debt conversion in Mainland Africa

Innovation: Use of Co-guarantee; Hurricane + Pandemic deferral clauses; Nondistressed debt re-financing

Gabon Blue Loan and Blue Bond Structure



Lender SPV = Gabon Blue Bond Master Trust, Series 2 (Blue Bond Issuer)(the "Note Issuer")