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





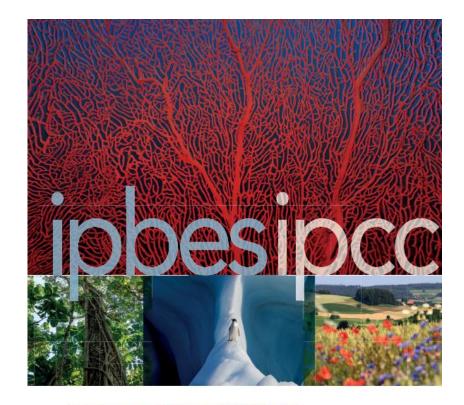






Nature loss & climate change are inter-related

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



IPBES-IPCC CO-SPONSORED WORKSHOP

BIODIVERSITY AND CLIMATE CHANGE

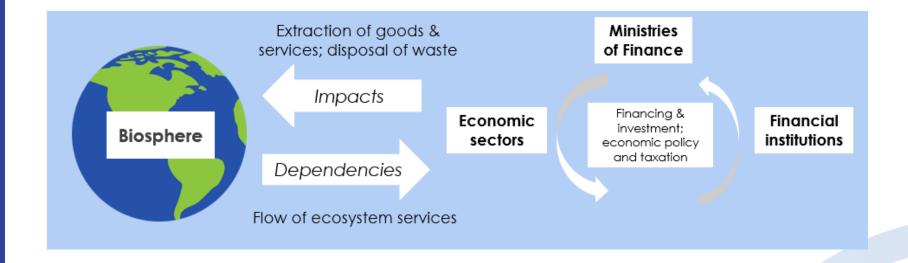
WORKSHOP REPORT







Types of nature-related risks





Potential risk transmission channels

Biodiversity Risks

Physical Risks

- Loss of Ecosystem Services creating ad-hoc shocks (e.g., pandemics) or patterns (e.g., decreasing yields from lower agricultural productivity)
- Interactions with other ecological issues (e.g., climate change)

Transition Risks

- · Domestic policy and regulation
- · Changes in demand including from international buyers
- Changes in technology
- Global regulation (e.g., maritime protected areas)
- · Loss of reputation stemming from biodiversity impact
- Lawsuits from communities harmed by projects
- Fines from regulators

Risk Transmission Channels

Local

Affecting multiple locations

Households

Loss of income and higher costs (from reduction in ecosystem productivity, weather disruption, health impacts and labor market frictions)

Businesses

- Supply chain disruptions
- Raw material price volatility
- Stranded assets
- Changing demand and costs

Finance

Legal liabilities

Credit risk

Market risk

Liquidity risk

Underwriting risk

Operational risk

Relocation of activities

Feedback effects

National

Government

- Lower tax revenues
- Higher cost of borrowing
- Greater need for grey infrastructure to provide services in substitute of ecosystems

Feedback effects

Limited substitutability of essential ecosystem services

- Lower resilience
- Reduction in GDP
- Productivity changes (e.g., agriculture, labor)
- Sudden price changes (structural changes, inflation and supply
- Socioeconomic changes (changing consumption patterns, migration, conflict)
- Labor market frictions (from physical and transition risk)
- Impacts on international trade, exchange rates, capital flows

Contingent Liability Risks* for MoF

Ex-ante Known Fiscal Costs

- · Sovereign guarantees (e.g., SOE, PPP)
- On-lending
- Expected critical infrastructure replacement and adaptation (to limit impacts on nature and dependencies on ecosystem services)

Ex-ante Unknown Fiscal Costs

- Public health emergencies
- Extraordinary critical infrastructure replacement and adaptation
- Compensatory payments (e.g., sectors, workers)
- Additional social security spending (i.e., unemployment benefits)
- Disaster relief expenditures (i.e., shelter, provision of emergency payments)
- Guarantees for financial sector
- Firm bailouts
- Insurance provision (if insurance companies cannot underwrite risks anymore)

Risk Severity

Risk Materiality

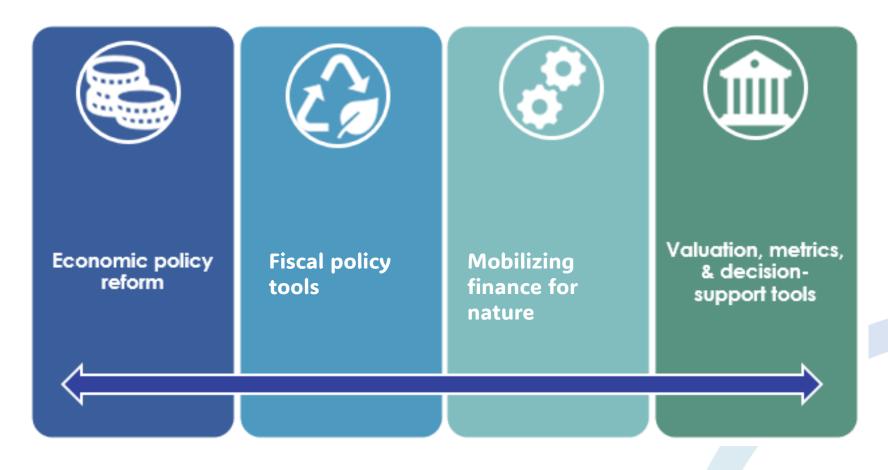
* With or without legal obligation to act upon



Double materiality of risks

MoF response feedback effects

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 Financial sector regulation, supervision, and risk assessment

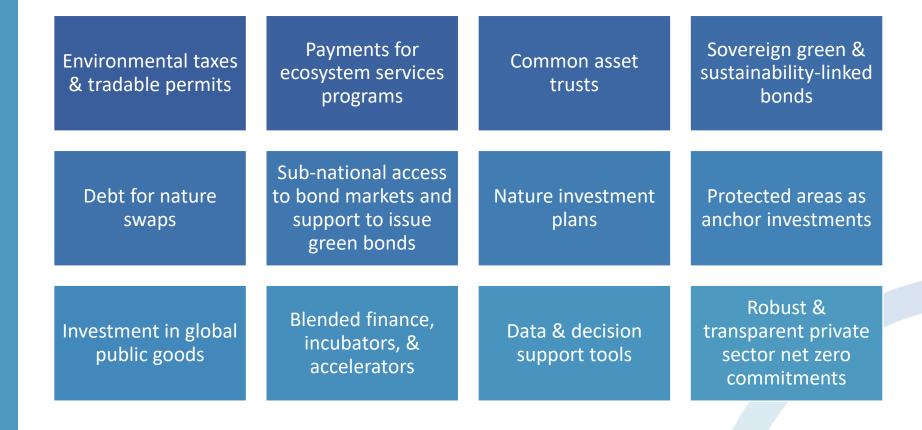
Sovereign naturerelated disclosure Corporate naturerelated disclosure and accounting Financial institution nature transition strategies

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'



• 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.







Linking Nature Macro Models to Financial Sector

- 1. Central bank nature risk assessments
- 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"



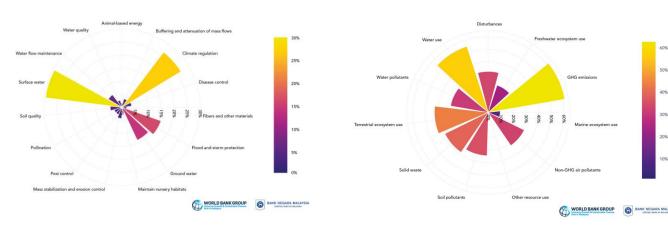


Source: World Economic Forum, Global Risks Perception Survey 2022-2023



1. Nature risk assessments

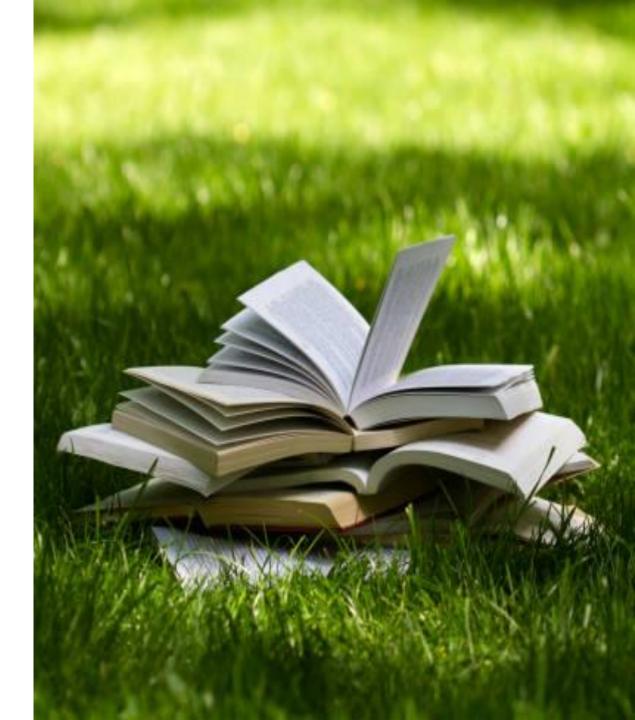
- Founded on nature macro modeling
- A nature-risk exposure assessment for Malaysia was conducted together with Bank Negara Malaysia
 - An Exploration of Nature-Related Financial Risks in Malaysia
 - 54% of commercial lending from Malaysian banks is exposed to nature-related financial risks and 87% is 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)





- 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>

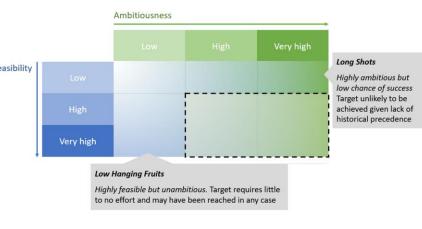


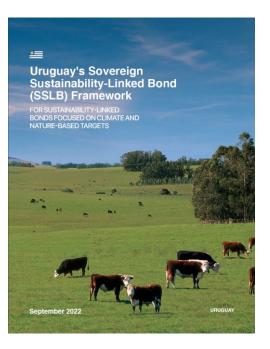




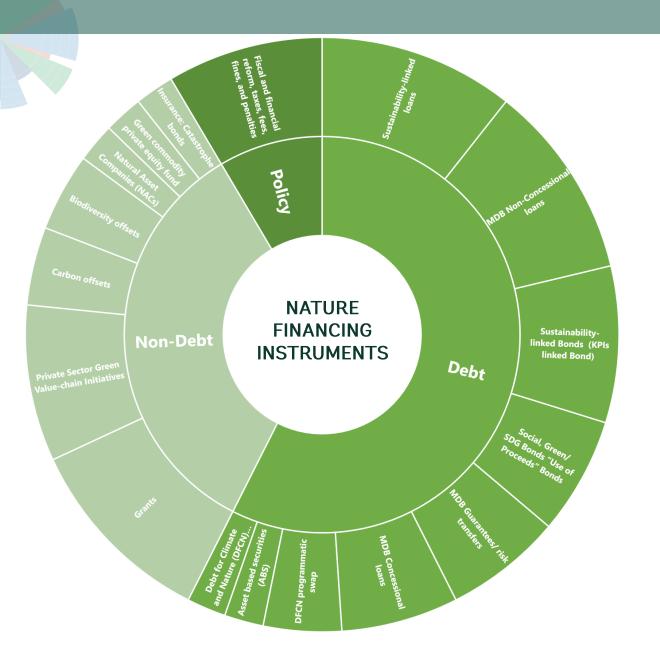
3. Performance-related instruments

- 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





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

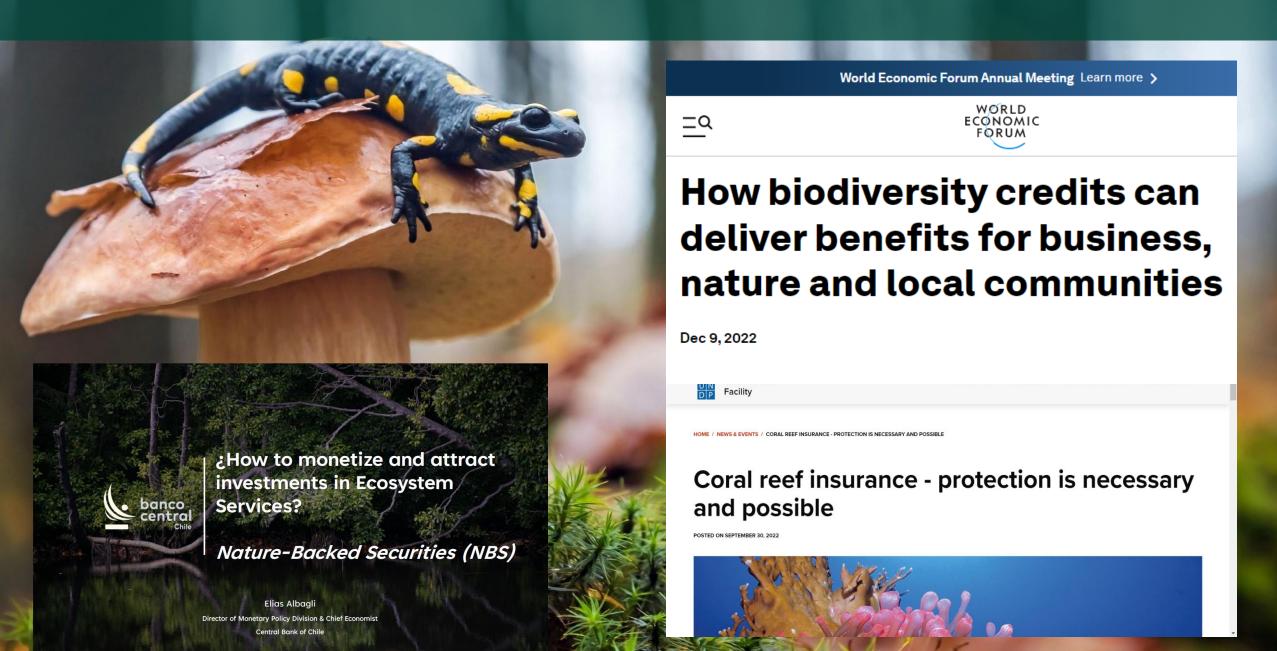
• CORAL BOND?

• MANGROVE BOND?

• BLUE WHALE BOND?



Monetization of nature?



The TNFD recommendations & additional guidance

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

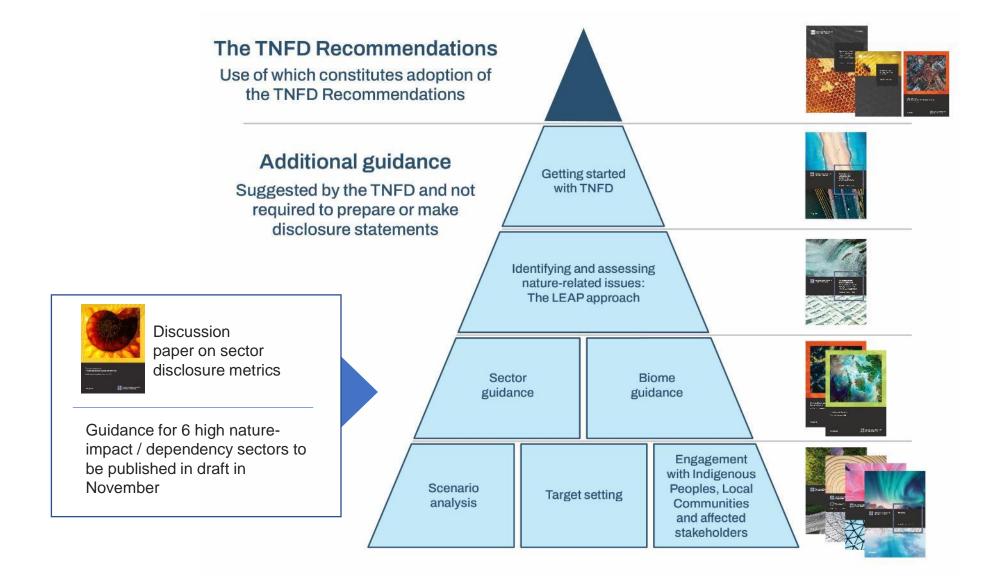
Thomas Viegas,
TNFD Partnerships Lead

14 November 2023

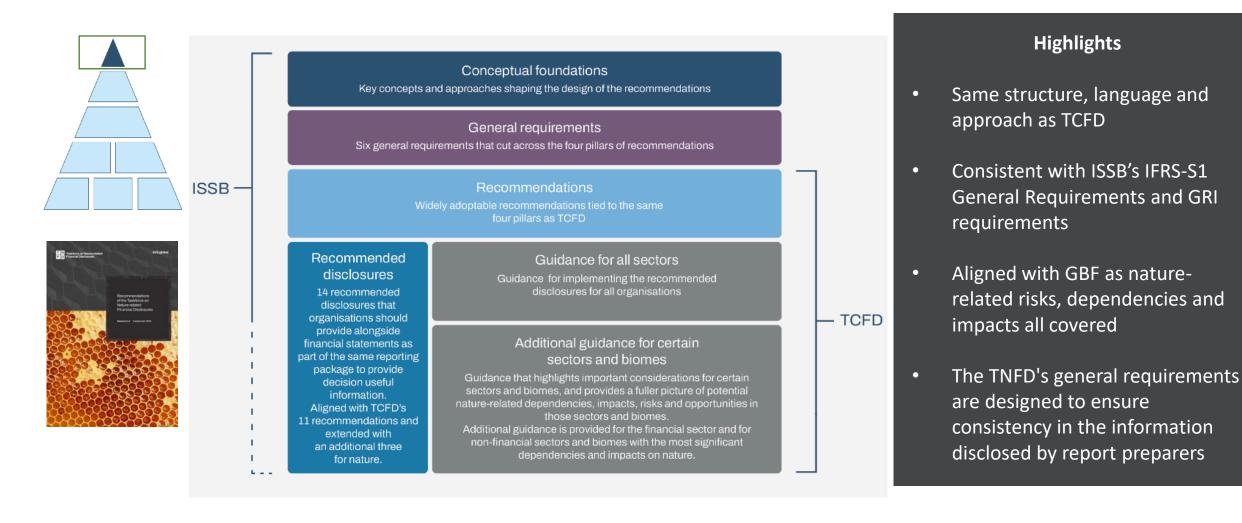




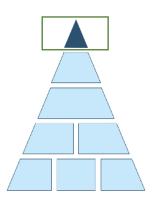
The TNFD Recommendations and Additional Guidance



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



The recommended disclosures: Building, advancing and integrating





TNFD recommended disclosures

Governance

Disclose the organisation's governance of nature-related dependencies, impacts, risks and opportunities.

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, affected and other stakeholders, in the organisation's assessment of. and response to, nature-related dependencies, impacts, risks and opportunities.

Strategy

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.

Recommended disclosures

- 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 to nature-related risks and opportunities, taking into consideration different scenarios.
- 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 locations

Risk & impact management

Describe the processes used by the organisation to identify, assess, prioritise and monitor nature-related dependencies, impacts, risks and opportunities.

Recommended disclosures

- 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 processes for managing nature-related dependencies. impacts, risks and opportunities.
- 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

Metrics & targets

Disclose the metrics and targets used to assess and manage material nature-related dependencies, impacts, risks and opportunities.

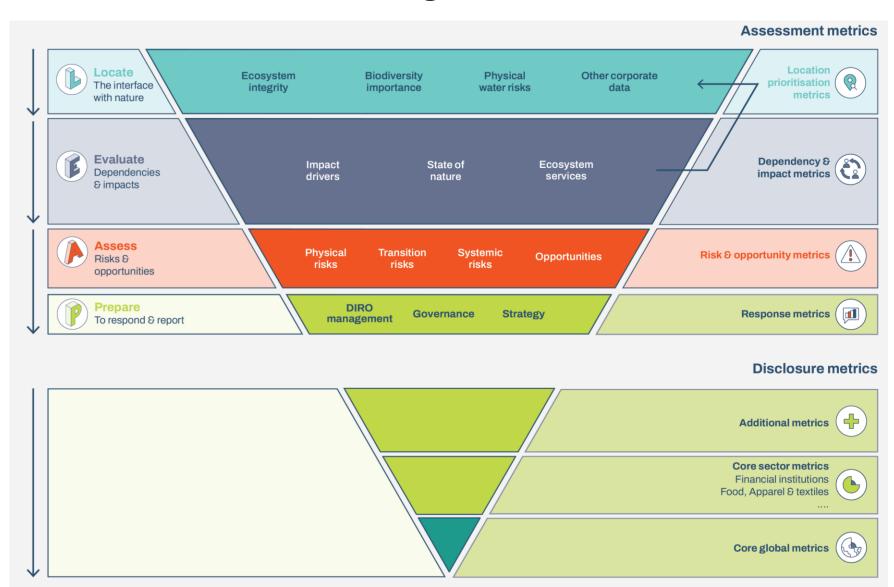
Recommended disclosures

- 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.

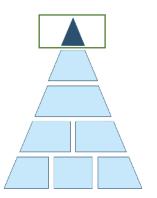
- 14 recommended disclosures. Same structure, language and approach as TCFD, and organised around four pillars.
- All 11 TCFD recommended disclosures carried over
 - Build on existing market practice, and encourage integrated (climate+nature) reporting
- 3 further disclosures added, covering three important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

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- 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, affected and other stakeholders, in the organisation's assessment of. and response to, nature-related dependencies, impacts, risks and opportunities.

Strategy

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.

Recommended disclosures

- 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 to nature-related risks and opportunities, taking into consideration different scenarios.
- 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 locations

Risk & impact management

Describe the processes used by the organisation to identify, assess, prioritise and monitor nature-related dependencies, impacts, risks and opportunities.

Recommended disclosures

- 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 processes for managing nature-related dependencies. impacts, risks and opportunities.
- 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

Metrics & targets

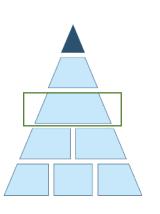
Disclose the metrics and targets used to assess and manage material nature-related dependencies, impacts, risks and opportunities.

Recommended disclosures

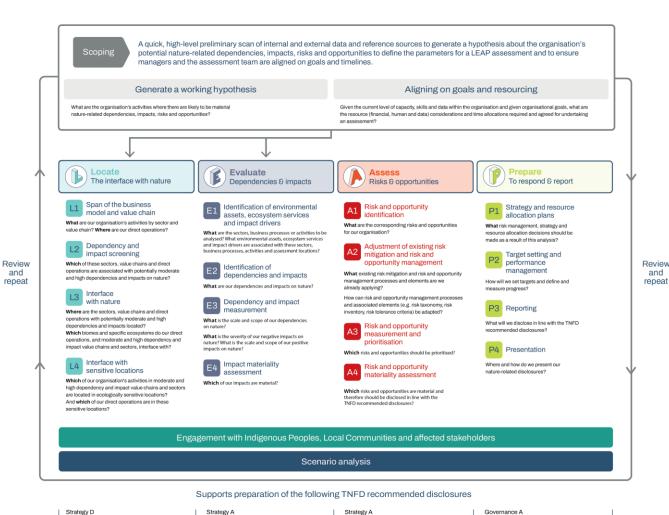
- A. Disclose the metrics used by the organisation to assess and manage material nature-related risks and opportunities in line with its strategy and risk management process.
- B. Disclose the metrics used by the organisation to assess and manage dependencies and impacts on nature.
- C. Describe the targets and goals used by the organisation to manage nature-related dependencies, impacts, risks and opportunities and its performance against these.

- 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







Strategy C

Strategy D

Risk and Impact Management A (i and ii)

Risk and Impact Management B

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

Risk and Impact Management A (i and ii)

Risk and Impact Management B

Metrics and Targets B

Governance R

Governance C

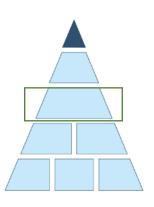
Metrics and Targets C

Strategy B

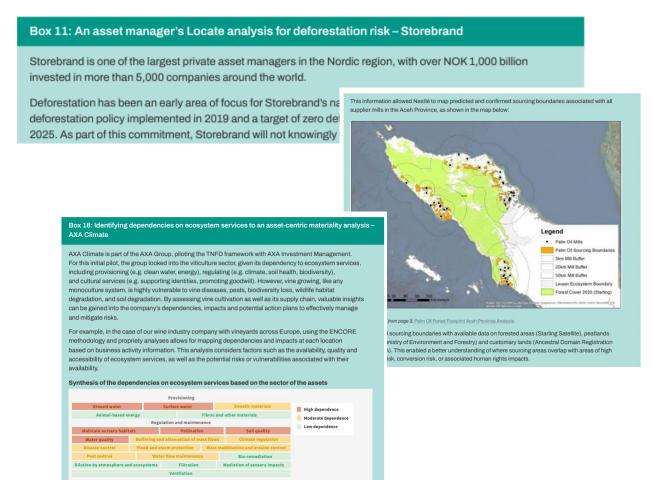
Strategy C

- 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**
- 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







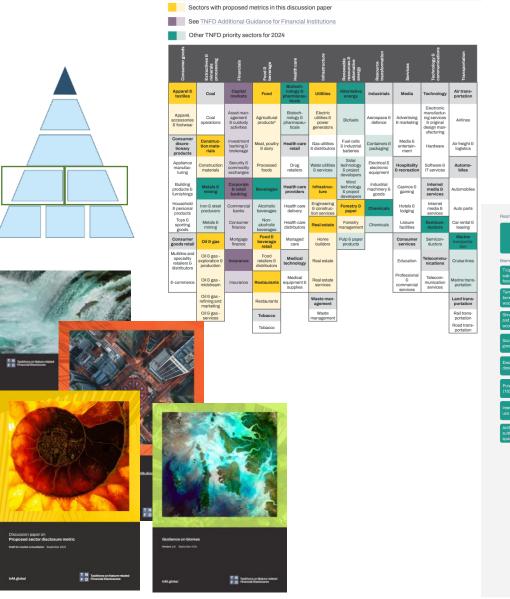
Highlights

- 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

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Additional guidance – Sector guidance and Biome guidance

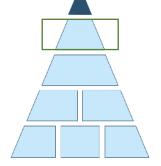




- On Sector guidance:
 - Other real economy sector guidance documents on LEAP approach being prepared
 - Plan to start publishing draft sector guides in November for feedback and finalise in 2024
- On Biome Guidance:
 - key knowledge development for market participants given placebased context for nature-related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

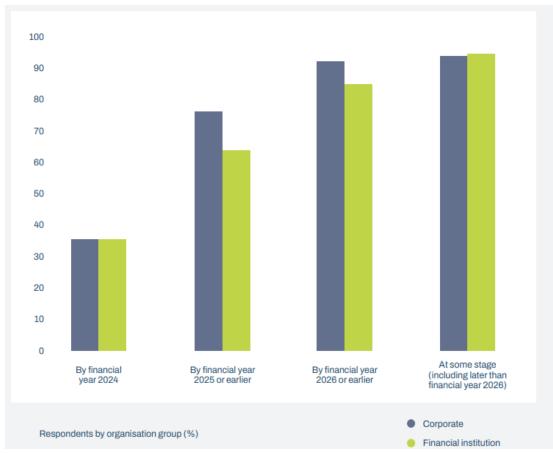
Additional guidance – Getting Started with the TNFD recommendations







Expectations of when organisations will likely be able to start disclosing aligned with TNFD recommendations



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 to start adopting the TNFD recommendations and reporting in their financial reporting package for either FY2024 or FY2025 outcomes
- Cohort of early adopters to be announced in January 2024 at the **World Economic Forum in Dayos**



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.

Join leading companies who have already announced their plans to get started with TNFD reporting:









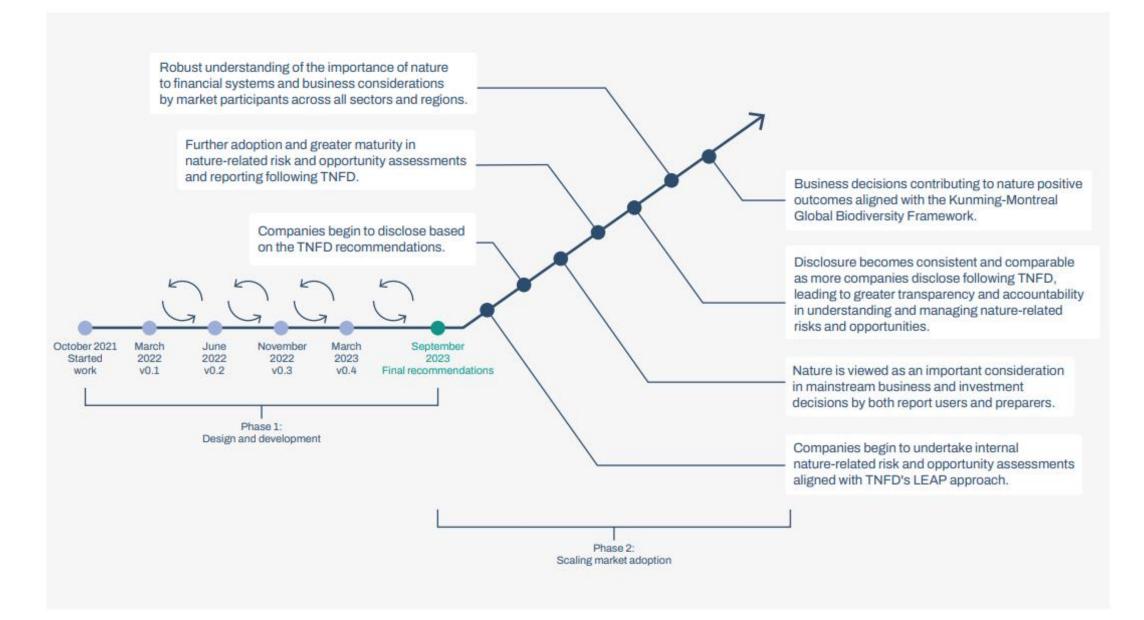








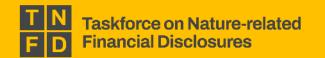
From Design to Delivery – Scaling Market Adoption



Thank you for listening.

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















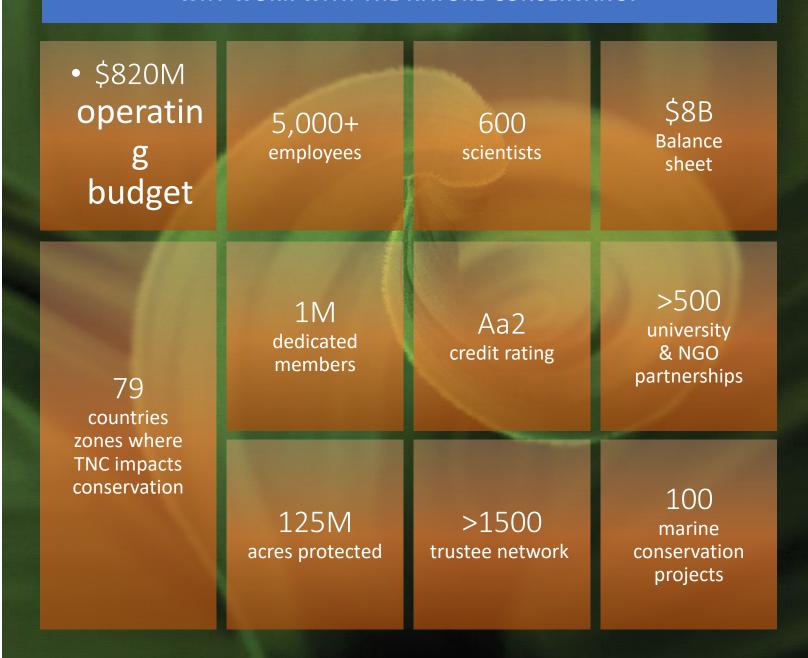
Nature Bonds:

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



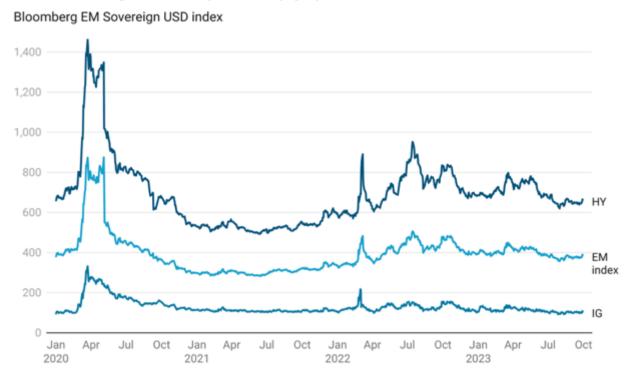
The Triple Planetary Crisis



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)



Source: Tellimer Research, Bloomberg • Created with Datawrapper

Conservation Outcomes

	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



LARGEST TRANSACTION: CLOSED 2021



NON-DISTRESSED: CLOSED 2022



LATEST TRANSACTION: CLOSED 2023



Seychelles

Deal size: \$21.6 MTerm: 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 Belize

Deal size: \$364 MTerm: 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

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

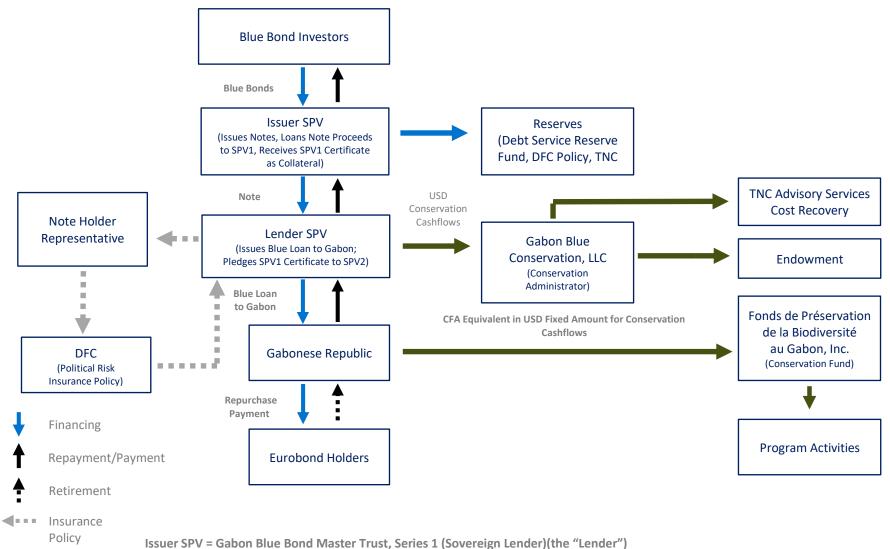
 10% as High Protection; 15% as Medium Protection

• Other Benefits: investor base diversification

Innovation: Use of Co-guarantee; Hurricane + Pandemic deferral clauses; Nondistressed debt re-financing Innovation: First modern debt conversion in Mainland Africa

Innovation: Funded new loan vs. bilateral debt forgiveness

Gabon Blue Loan and Blue Bond Structure



Issuer SPV = Gabon Blue Bond Master Trust, Series 1 (Sovereign Lender)(the "Lender")
Lender SPV = Gabon Blue Bond Master Trust, Series 2 (Blue Bond Issuer)(the "Note Issuer")