CEOS SIT-29

TNFD Data Initiatives

Cathrine Armour, Director Data Initiatives April 2024



Taskforce on Nature-related Financial Disclosures



Agenda

Introduction and background

TNFD Recommendations including approach

Kunming-Montreal Global Biodiversity Framework

TNFD Data Initiatives

The recommended disclosures

The approach to measurement – metrics and targets

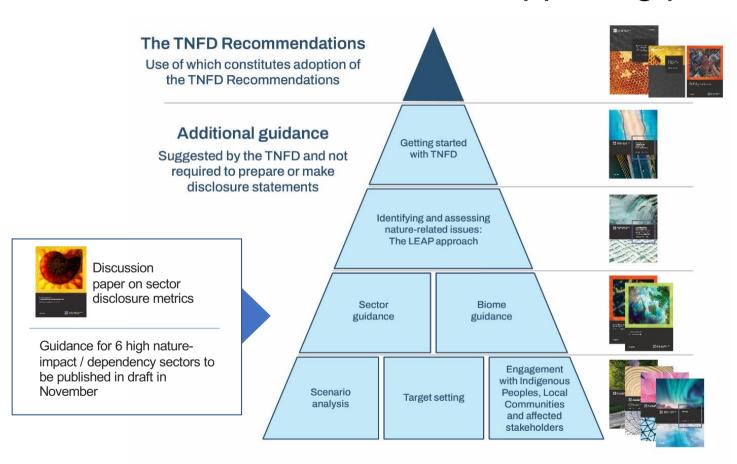
Closing Remarks

Introduction and background

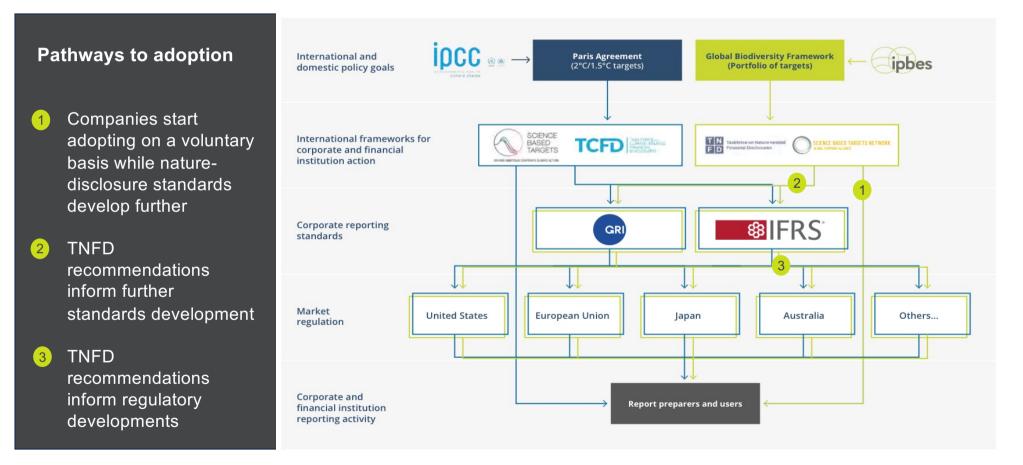
The TNFD aims to enable organisations, companies and financial institutions and broader Taskforce for Nature-related Financial Disclosures (TNFD) stakeholders to effectively manage the dependencies and impacts of nature related risks and opportunities through a portfolio of data-centric initiatives that align with and support the adoption and active use of the TNFD Framework.

- The TNFD recommendations enable businesses and financial institutions to identify, assess, disclose/report and act on their nature-related risks, impacts, dependencies, and opportunities, with the ultimate-aim of supporting the realignment of global financial flows towards nature positive outcomes.
- Access to reliable, verified, nature-related data that is fit for purpose and able to be made available on a global scale hinders the adoption and effectiveness of the Framework.
- The portfolio of TNFD-led data initiatives will seek to facilitate access and availability of data, and associated tools and support on which to base analysis, gain insights and integrate the TNFD Framework into active decision-taking.

TNFD Recommendations and supporting publications

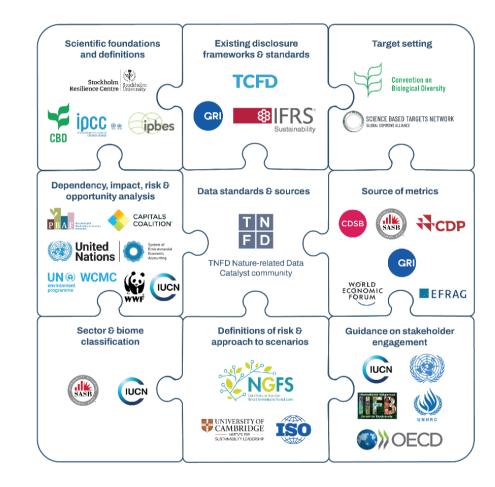


Emerging standards and regulation coming into place

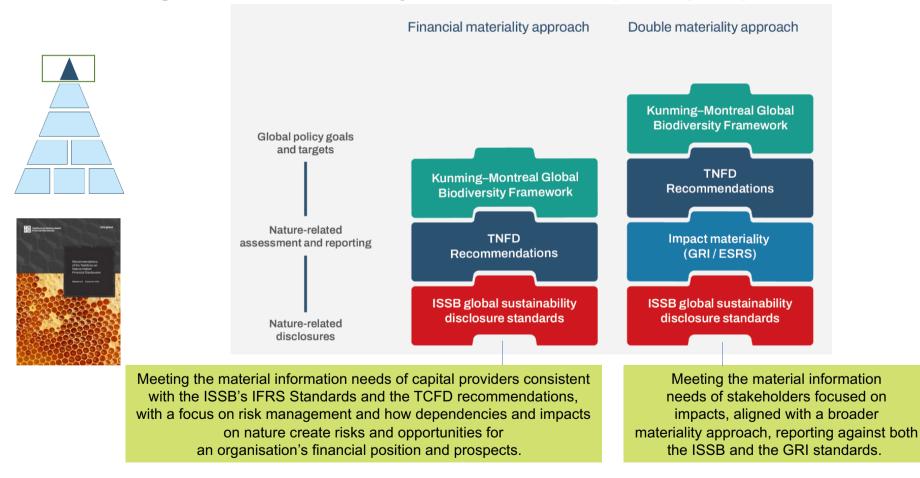


Our Approach: Building on existing frameworks, tools and metrics

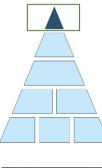
The Taskforce would like to thank its 19 core knowledge partner organisations and the many other individual experts and organisations that have contributed their expertise to support the development of the TNFD's recommendations and guidance.



Enabling the materiality needs of report preparers



14 recommended disclosures aligned to TCFD & ISSB





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.
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locations

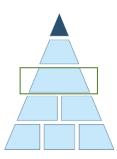
TNFD recommended disclosures

Highlights

All 11 TCFD recommended disclosures carried over

- Three further disclosures added, covering important areas for nature:
 - Engagement ٠
 - Sensitive locations •
 - Value chains •
- Language of disclosures and guidance aligned to TCFD and IFRS S1 & S2

A 'how to' assessment approach – the LEAP approach





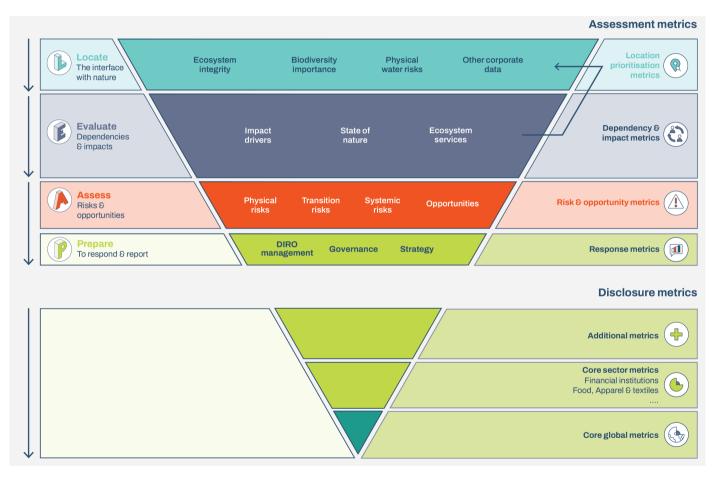




- Suggested guidance not required to make TNFD disclosures
- Extensive market feedback and pilot tested by over 240 institutions across sectors, geographies and biomes
- Designed as a reference manual for an internal assessment team to inform management and board decision making

A metrics architecture for nature-related issues

- No GHG Protocol
 equivalent for nature
- Market user concerns about metrics in use today – time lags, consistency and comparability
- Adopted a 'Leading indicators' approach
- Extensive input from knowledge partners and market participants



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COP15 UN Convention on Biological Diversity

COP15 UN Convention on Biological Diversity (December 2022) saw the adoption of a new set of international goals for biodiversity called the **Kunming-Montreal Global Biodiversity Framework (GBF)**. A total of 188 governments agreed to the GBF and committed to address the ongoing loss of terrestrial and marine biodiversity.

The role of CEOS and member Agencies is critical in achieving the commitments made at COP15 under the overarching commitment to a Global Biodiversity Framework (GBF).

Specifically, as relevant to TNFD:

TARGET 15: Businesses Assess, Disclose and Reduce Biodiversity-Related Risks and Negative Impacts

TARGET 19: Mobilize \$200 Billion per Year for Biodiversity From all Sources, Including \$30 Billion Through International Finance

TARGET 21: Ensure That Knowledge Is Available and Accessible To Guide Biodiversity Action

TNFD Phase 1: Global nature-related data study

Recognzing that a lot of nature-related data already exists because of the efforts of a wide range of national and international institutions, conservation organisations and businesses in highly regulated sectors over many years, in our view, a global nature- related public data facility can deliver the most added value by:

- Connecting existing but disparate nature data sets to a shared point of access to enhance accessibility for all data users;
- Improving the consistency of that data by supporting the creation of, and promoting, a set of common global state of nature data methodologies and standards;
- Working with existing organisations and supporting national capabilities to address data gaps that are aligned with those methodologies and standards; and
- Enhancing data access and encouraging the development of public and private sector analytics that would sit on top of the foundational data stack to enable more robust, repeatable and transparent assessment and decision-making by data users.

Overview TNFD data initiatives

A portfolio of activity to address the need for Nature-related data, analysis and insights

Nature-related Public Data Utility (input)

Addressing the shared need for State of Nature data and establishing a focal point for collating and connecting data that already exists across disparate sources and networks.

- enhancing accessibility for all data users;
- supporting the creation of, and promoting, a set of common global state of nature data methodologies and standards;
- working with existing organisations and supporting national capabilities to address data gaps; and
- enhancing data access and encouraging the development of public and private sector analytics to enable more robust, repeatable and transparent assessment and decision-making by data users.

Nature-related Data Catalyst

A community of expert knowledge holders, providers, users and facilitators to engage with and share practice on the access and use of nature-related data and analytics.

Nature-related Tools Catalogue

An enhanced catalogue and directory providing data users with signposts and links to recommended nature-related tools and datasets to help assess nature-related issues and aligned with the TNFD's LEAP approach. Structed to enable discovery by relevant use case criteria and thematic and/or sector area of interest.

Nature Data Labs

Connecting, accelerating, problemsolving and supporting the development of data-centric tools, products and services to address the State of Nature.

Demonstrator: Supply Chain Passport (output)

Meeting the need for standardised, verifiable, compiled value chain data from suppliers. Providing interoperable data across the supply chain based on the TNFD Framework.

TNFD Nature-related Public Data Utility

A distributed access public data facility:

A global entry point to a federated/decentralised data exchange that connects nature related data products and services provided by contributing organisations, both public and private, whose data sets meet the defined 'data principles' - certain methodological and quality standards, providing a 'single source of truth' on nature-related data.

Aims

Facilitate public and broad access to high-quality, robust nature-related data, with the participation of a wide range of public and private data providers as contributors;

Align the methodologies and data needs of the latest guidance for nature-related assessments, including those now being developed and deployed by the TNFD, by the SBTN; and

Support the rapid acceleration of further data generation aligned with an agreed set of common global standards for state of nature data collection.

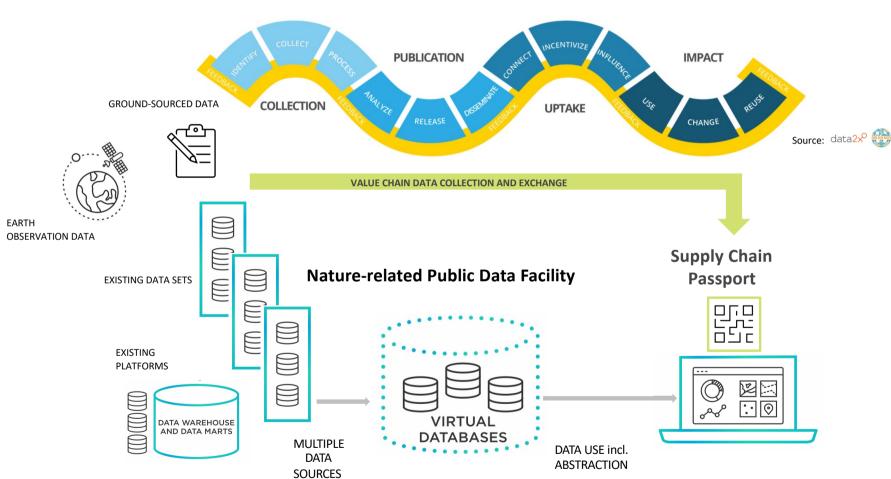
Maintain data sovereignty by leaving data ownership and responsibility in the hands of data and product owners, including national governments and other local stakeholders, which a centralised database would not;

Be scalable and expandable over time as it does not rely on a central data model and can grow as data sets are enhanced and operational costs can be spread as use cases are extended; and

Most effectively provide the foundation for the development and delivery of more advanced data, insights and analytics capabilities that would enhance the foundational open access data stack provided by the facility.



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Nature-related DATA VALUE CHAIN model

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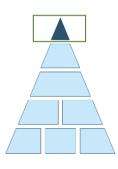
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Approach: Aligned to GBF Target 15 requirement





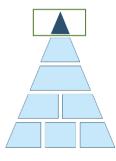
Global Biodiversity Framework Target 15

"Encourage and enable business [to]... regularly monitor, assess and transparently disclose their <u>risks</u>, <u>dependencies and</u> <u>impacts</u> on biodiversity, including with requirements for all large as well as transnational companies and financial institutions along their operations, supply and value chains, and portfolios."



- Adopted in December 2022 with the support of almost 200 countries
- Goals and targets for halting and reversing nature loss by 2030
- Calls for governments to introduce requirements to enable assessment and disclosure of risks, dependencies & impacts
- Risks, dependencies and impacts all covered by the TNFD recommendations

The recommended disclosures: Summary





TNFD recommended disclosures

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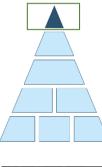
management processes.

that meet the criteria for priority

locations.

- 14 recommended disclosures ٠
- Same structure, language and approach as TCFD
- Organised around four pillars: ٠
 - Governance ٠
 - Strategy ٠
 - **Risk and Impact** Management
 - Metrics and Targets •

The recommended disclosures: Alignment with TCFD





TNFD recommended disclosures

			-	
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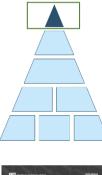
locations

Highlights

All 11 TCFD recommended disclosures carried-over to:

- Build on existing market practice
- Encourage integrated
 (climate+nature)
 reporting

The recommended disclosures: New recommended disclosures





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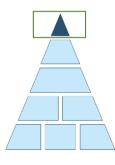
TNFD recommended disclosures

Highlights

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 - Three further disclosures added, covering three important areas for nature:
 - Engagement

- Sensitive locations
- Value chains

The recommended disclosures: The engagement disclosure





TNFD recommended disclosures

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The recommended disclosures: The priority locations disclosure

A(i) Describe the

operations.

A(ii) Describe the

organisation's processes for

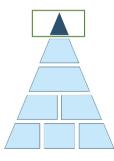
dependencies, impacts, risks

and opportunities in its direct

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prioritising nature-related



Governance

and opportunities

A. Describe the board's

and opportunities.

oversight of nature-related

B. Describe management's

dependencies, impacts, risks

C. Describe the organisation's

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and opportunities.

managing nature-related

role in assessing and

and opportunities.

dependencies, impacts, risks



Strategy Risk & impact management Disclose the organisation's Disclose the effects of Describe the processes governance of nature-related nature-related dependencies. used by the organisation to dependencies, impacts, risks impacts, risks and opportunities identify assess prioritise on the organisation's business and monitor nature-related model, strategy and financial dependencies, impacts, risks planning where such information and opportunities. is material. **Recommended disclosures Recommended disclosures** Recommended disclosures

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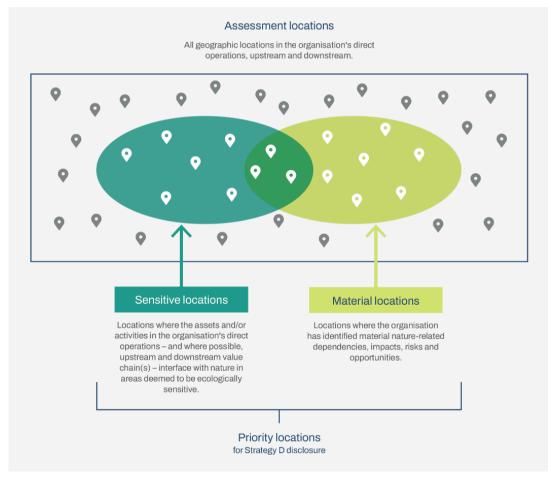
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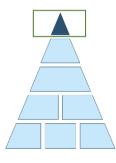
Criteria for priority locations disclosure



Criteria for sensitive locations:

- Areas important for biodiversity
- Areas of high ecosystem integrity
- Areas of rapid decline in ecosystem integrity
- Areas of high physical water risks; and/or
- Areas of importance for ecosystem service provision, including benefits to Indigenous Peoples, Local Communities and stakeholders.

The recommended disclosures: The value chains disclosure





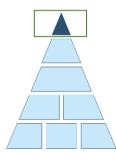


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The recommended disclosures: Value chain disclosure







TNFD recommended disclosures

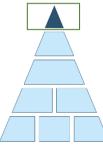
Governance	Strategy	Risk & impact management	Metrics & targets
Disclose the organisation's governance of nature-related dependencies, impacts, risks and opportunities.	Disclose the effects of nature-related dependencies, impacts, risks and opportunities on the organisation's business model, strategy 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. 	 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 	A(i) Describe the organisation's processes for identifying, asseesing and prioritising nature-related dependencies, impacts, risks and opportunities in its direct operations. A(ii) Describe the organisation's processes for identifying, asseessing and	 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 organisation's human rights policies and engagement activities, and oversight by the board and management, with respect	business model, value chain, strategy and financial planning, as well as any transition plans or analysis in place.	prioritising nature-related dependencies, impacts, risks and opportunities in its upstream and downstream value chain(s).	C. Describe the targets and goals used by the organisation to manage nature-related dependencies, impacts, risks
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.	C. Describe the resilience of 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.	and opportunities and its performance 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

- Taskforce recognises that value chain assessment and disclosure may take time depending on the sector and business model
- **Discussion paper published** with draft guidance on approach to analysis of value chains
- Released in draft for feedback to inform further guidance development

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-rela dependencies, impacts, risk and opportunities.
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- Additional disclosure guidance for financial institutions for each recommended disclosure, where appropriate
- Two draft core disclosure metrics proposed and open for consultation and feedback

Agenda

Introduction and background

TNFD Recommendations including approach

Kunming-Montreal Global Biodiversity Framework

TNFD Data Initiatives

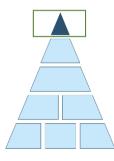
The recommended disclosures

The approach to measurement – metrics and targets

Closing Remarks

Metrics and Targets – Principles

locations.





TNFD recommended disclosures

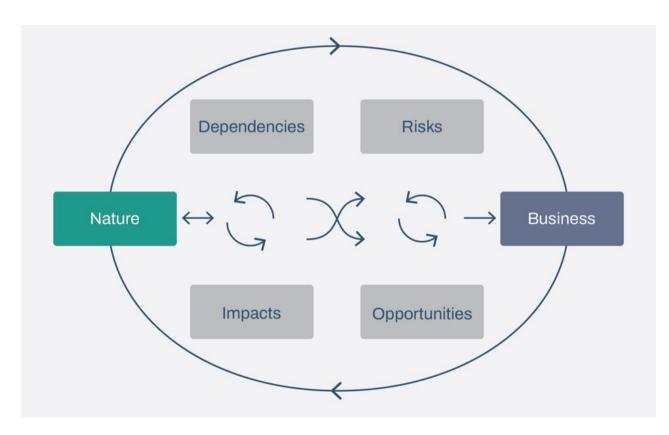
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management processes.

Highlights

Goal to provide quantitative data that are:

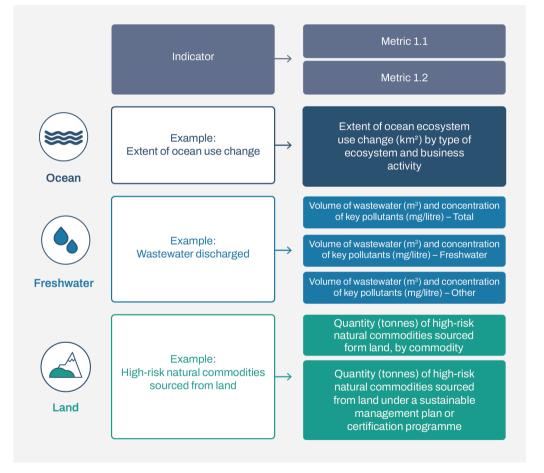
- Science-based
- Practical to collect at reasonable cost
- Decision-useful •
- Able to support cross-sector ٠ and sector-specific comparison
- Assurable on an annual reporting basis
- Aligned with the GBF goals and targets



The challenges of measuring nature-related issues

- Identified over 3,000 naturerelated metrics from the standards, developed and collected over many decades
- Relatively few measures of dependency
- No widely accepted measures for nature-related risks and opportunities to an organisation

Our approach: Organised around indicators and metrics



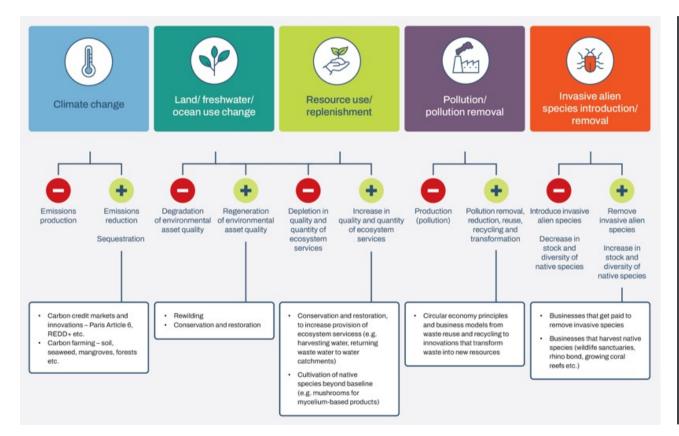
- Specific, measurable 'metrics' (the measurement) ...
- ... grouped by 'indicator' (what is being measured)

Our approach: Focused on identified drivers of change



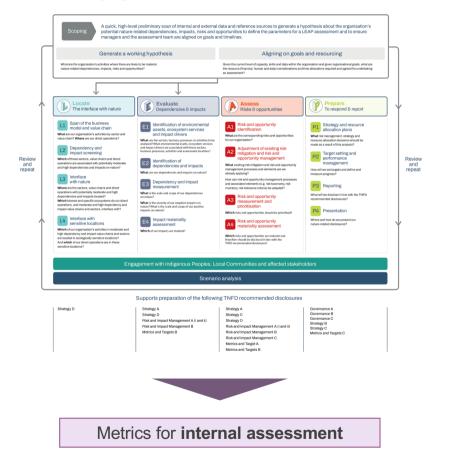
- Difficult today for business
 and finance to access data on
 (or measure directly) changes
 in state of nature around the
 world against a baseline or
 reference condition
 consistently and on an annual
 assurance basis
- Measurement of drivers of change is easier to start with and attributable directly to business and finance

Our approach: Acknowledging both negative and positive impacts



- Distinction between mitigating negative impacts... and contributing to positive impacts on nature
- Separate reporting of negatives and positives (no net reporting)
- Recognise new products and business models and contributions to nature positive outcomes

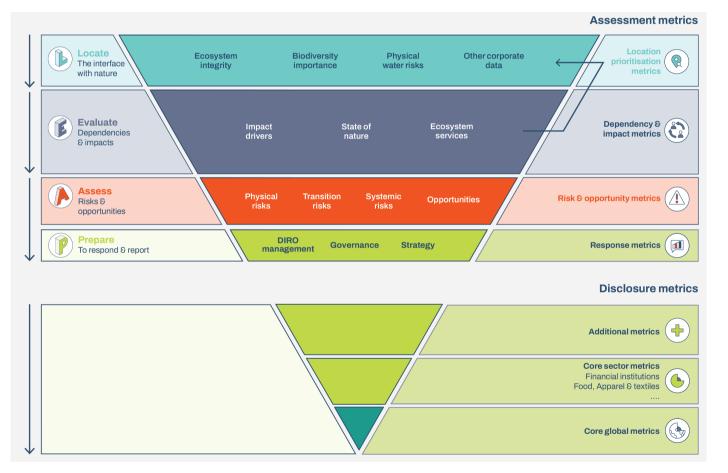
Our approach: Assessment metrics & disclosure metrics



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

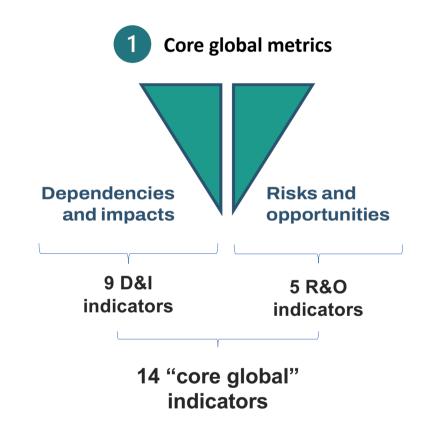
Providing a focused & flexible set of 'leading indicators'

- 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
- Extensive input from knowledge partners



Recommended disclosures – Core global metrics

- 14 Core Global Indicators and specific metrics for each
- Chosen because they apply to most business models across most sectors (like GHG emissions for climate reporting)
- Reported on a comply or explain basis
- Included as Annex 1 in the final report



Core global metrics – Impacts and dependencies

Highlights

- 9 core global impact and dependency indicators organised around the 5 drivers of change identified by IPBES
- Aligned to goals and targets of GBF
- Refer to TCFD and IFRS S2 for climate change mitigation metrics
- 5 risk and opportunity metrics recommended by TNFD for all organisations

Driver of nature change	Indicator
Land/freshwater/ ocean-use change	 Spatial footprint Extent of land/freshwater/ocean-use change
Pollution/pollution removal	 Pollutants released to soil split by type Wastewater discharged Waste generation and disposal Plastic pollution Non-GHG air pollutants
Resource use/ replenishment	 8. Water withdrawal and consumption from areas of water scarcity 9. Quantity of high-risk natural commodities sourced from land/ocean/freshwater
Climate change	GHG emissions
Placeholder: Invasive alien species and other	Measures against unintentional introduction of invasive alien species
Placeholder: State of nature	Ecosystem condition Species extinction risk

Core global metrics – risks and opportunities

	Risk/Opportunity	Metric
	Risk	1. Value of assets, liabilities, revenue and expenses that are assessed as vulnerable to nature-related transition risks (total and proportion of total)
		2. Value of assets, liabilities, revenue and expenses that are assessed as vulnerable to nature-related physical risks (total and proportion of total)
Highlights5 risk and opportunity metrics		3. Description and value of significant fines/penalties received/litigation action in the year due to negative nature-related impacts
recommended by TNFD for all organisations	Opportunity	4. Amount of capital expenditure, financing or investment deployed towards nature-related opportunities, by type of opportunity, with reference to a government or regulator green investment taxonomy or third-party industry or NGO taxonomy, where relevant
		5. Increase and proportion of revenue from products and services producing demonstrable positive impacts on nature with a description of impacts

T N F D

Closing Remarks



TNTaskforce on Nature-relatedFDFinancial Disclosures