

Introduction to Nature-related Finance

Mapping the landscape and examples of leadership

CISL December 2020

Business and nature How does it interact with finance?



Leading companies recognise that a prosperous business relies upon nature.

They also recognise that the 'E' in 'ESG' is about protecting our biodiversity and natural capital, as well as our climate.

Nature's health is under pressure from global trends in consumption, population and economic growth.

This creates long-term risks to business, citizens and wider society who depend on nature.

CISL provides the structured path that businesses need to establish sustainability solutions and create momentum at scale. There are two primary ways a financial institution can think about nature-related finance:

1. From an organisational perspective, integrating nature considerations into risk and opportunity thinking

Finance

2. From a client or investee perspective, supporting clients to mitigate business risks and capture investment opportunities to build resilience and longterm shareholder value

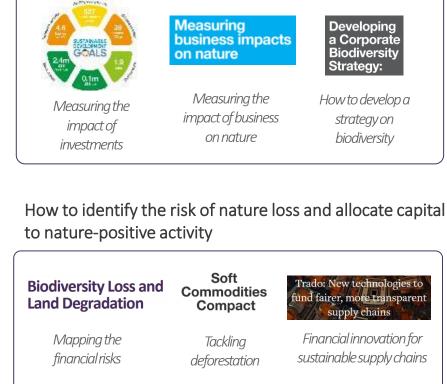
Going beyond the 'why' to answer the 'how to'



CISL's work on nature-related finance



How to measure impact on nature and help clients

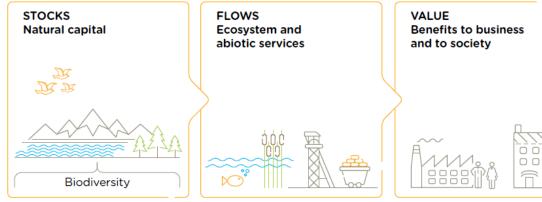


Natural capital and ecosystem services Why and how nature matters

KEY FACTS

- 75% of land is now degraded
- At least 20 per cent of land-based species have been lost since 1900 and one million are threatened
- USD 10 trillion of economic losses estimated by 2050 due to the decline of ecosystem services

UNDERSTANDING WHY AND HOW NATURE MATTERS



Natural capital

The stock of renewable and non-renewable natural resources (e.g., **plants**, **animals**, **air**, **water**, **soils**, **minerals**, **ecosystems**) that combine to yield a flow of benefits to people

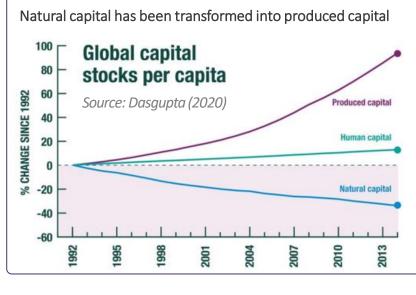
Biodiversity underpins this.

Ecosystem Services

Source: Natural Capital Coalition (2018)

- The **benefits people obtain** from natural capital. Four categories:
- Provisioning: Material outputs from nature (e.g. water, fiber)
- **Regulating**: Indirect benefits from nature (e.g. **mitigation of climate change, water filtration, storm protection, pollination**).
- Cultural: Non-material benefits from nature (e.g. recreational).
- Supporting: Fundamental ecological processes that support the delivery of other ecosystem services (e.g. nutrient cycling, soil formation).

NATURE IS IN DECLINE



KEY INITIATIVES





Finance and nature Client dependence on nature and the biodiversity financing gap



- USD 44 trillion of economic value generated each year is moderately or highly dependent on nature – more than 50 per cent of global GDP
- Up to USD **143 bn of finance flows toward biodiversity** (natural capital) conservation annually
- In order to transition the key sectors that extract natural capital to sustainable practices and protect existing biodiversity up to USD 1 trillion is needed per year
- USD 542 bn is spent on subsidies harmful to nature.

LINKS TO REPORTS

WEF, Nature Risk Rising

[details how the economy is dependent on nature]

OECD Biodiversity Finance Overview

The Paulson Institute, Biodiversity Finance Gap

CLIENT DEPENDENCE ON NATURE

Percentage of gross added value (GVA) with high, medium and low dependence either directly or along the supply chain Direct Supply chain Forestry High Agriculture Medium Fishery and aquaculture Low Food, beverages and tobacco Heat utilities Construction Electricity Water utilities Supply chain and transport Chemical and materials industry Aviation, travel and tourism Real estate Mining and metals Retail, consumer goods and lifestyle Oil and gas Automotive Healthcare delivery Electronics Information technology Insurance and asset management Banking and capital markets Source: Digital communications WEF (2020) 0% 40% 60% 80% 100% 20% 40% 60% 80% 100%

SUSTAINABILITY LEADERSHIP

Market developments in 2020 Momentum around nature and finance picking up



Taskforce for Nature-related Financial Disclosures (TNFD)	 Informal working group Includes CISL members (BEI, Compact, ClimateWise): BNPP and Standard Chartered, Rabobank and Axa UK government funded. Expert Group being formed
Indebted to nature Exploring biodiversity risks for the Dutch financial sector June 2020	 <u>Dutch Central Bank</u> maps the financial risks of biodiversity loss. Uses the <u>ENCORE</u> tool from the Natural Capital Alliance to identify sectors at risk. Identifies how different sectors are reliant on the ecosystem services underpinned by biodiversity Analyses how many negative biodiversity impacts Dutch FIs are connected to, based on first order effects
Beyond 'Business as Usual': Biodiversity Targets and Finance Managing biodiversity risks across business sectors	 <u>UNEP FI & UNEP WCMC</u> references CISL's Financial Risks of Biodiversity Loss and Land Degradation project and Soft Commodities Compact Covers how to set biodiversity targets and discusses examples Identifies sub-sectors with a high dependence on biodiversity
Dasgupta Review of the Economics of Biodiversity	 Equivalent to Stern Review of Climate Change. Will assess the benefits of biodiversity and costs of losing it. Interim report published April 2020 Nature loss is an asset management problem – natural stock needs to be managed better, especially since the regenerative rate of natural capital is 19 per cent Depreciation of natural assets occurs because of pollution, mismanagement, climate and land use change etc. "To sustain our natural assets, our demands on Nature must be equal to, or less than, its regenerative rate."
Investor action on biodiversity: discussion paper	 <u>PRI</u> detail the action taken by investors on biodiversity, including ESG integration, negative screening and biodiversity funds Identifies the barriers to greater action, including training, consistent metrics and company level data
New Nature Economy Report I The Future Of Nature And Business In collaboration with AlphaBeta	 WEF compendium of business 'opportunities' of transitioning to a 'nature-positive' economy \$10.1 trillion of opportunities

SUSTAINABILITY LEADERSHIP Partly to anticipate Oct 2020 Biodiversity COP (now postponed) Value of nature Financeoriented The London Institute of Banking & Finance Tools Commitments Nature+ ICEBERG DATA LAB **Accelerator Fund** Finance for icare & consult N Biodiversity McKinsey 保尔森基金会 In right Taget or a second or & Company POLLINATION PAULSON INSTITUTE Sustainability D **CDC** BIODIVERSITÉ Knowledge-Implementation-BUSINESS orientated FOR NATURE oriented OUR PLANET SCIENCE BASED TARGETS NETWORK GLOBAL COMMONS ALLIANCE THE ROYAL SOCIETY Business @ Biodiversity amazon 83 BBC Unilever UNITED NATIONS SUMMIT ON BIODIVERSITY GROUNE General 7 N.B. This is a select collection of initiatives and outputs

UNIVERSITY OF

H2 2020 saw an increase in initiatives and outputs



Learn more

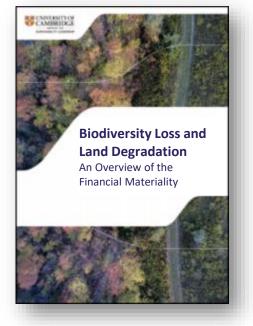
CISL work, examples of leadership and a context for action

Centre for Sustainable Finance | Contributions

Identify the risk of nature loss and allocate capital to nature-positive activity

Risk focus

<u>Financial Risks of</u> <u>Biodiversity Loss and Land</u> <u>Degradation</u>



First paper from this project details existing methods and tools that can be used to understand the financial materiality of biodiversity loss and land degradation.

Soft Commodities Compact

What

- Banks and corporates work toward zero net deforestation in four soft commodities.
- Involves 12 major global banks.
- Banks introduced anti-deforestation policies for clients and worked to reduce deforestation risk in their portfolio.

Why

- Every six seconds, a football pitch of primary forest is lost.
- Deforestation and forest degradation are responsible for 15 per cent of greenhouse gases emissions.

Current focus

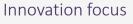
• Using six years of learning, an action plan has been produced detailing what banks can do next to contribute to the halting and reversal of deforestation (due for publication January 2020)

Sustainable Shipment Letter of Credit Sustainable Shipment Letter of Credit

A financing solution to incentivise sustainable commodity trade



Template method for commodity buyers to issue a Letter of Credit (LC) in favour of a supplier that could provide a sustainability credential.



Project Trado

SUSTAINABILITY LEADERSHIP

What

- Financial innovation for sustainable supply chains.
- Preferential trade finance pricing provided for sustainability data about tea produced in Malawi.
- Demonstrated that a 'data-for-benefits' swap is technologically and structurally possible.

Why

- Proving sustainability outcomes with high quality high frequency data remains challenging in certain contexts, especially in food supply chains.
- The hypothesis of the project, which was proven, was that a financial instrument can be used to collect sustainability data.

Centre for Sustainable Finance | Current focus The financial materiality of biodiversity loss and land degradation

PROJECT AIMS

- Help financial institutions understand, identify and assess the financial risks of nature-related risks.
- Determine a common language and explore how these risks change financial decisions.

2

DELIVERABLES

Overview of the financial materiality of biodiversity loss and land degradation

- Economic dependence on nature is \$44 trillion, with land degradation costing the world USD 6.3-10.6 trillion of economic and biological productivity each year
- Numerous tools exist to understand the relationship between business and biodiversity and to map the value of land degradation

Framework to identify nature-related financial risks

- Show how the degradation of nature and responses to this degradation are connected to financial risks
- Identify distinct nature-related financial risks, by sector
- User testing conducted with the financial industry (banks and asset managers)

Assessment of scenario analysis tools

3

- Explore to what extent the future financial risk of nature loss can be understood using existing scenario analysis tools
- Map that future risk assessment into the framework identifying nature-related financial risks

A joint venture between the Banking Environment Initiative and the Investment Leaders Group

MORE INFO ONLINE

4

Deep dive use cases on nature-related financial risks

- Work with FIs to apply the framework and future risk analysis to specific risk assessments
- Where possible, quantify the financial risk of a type of nature loss for a specific sector or geography
- Publish findings of use cases





Further CISL contributions

How to measure the impact on biodiversity and help clients



All investment has an impact on the real world. This framework shows how and includes a 'Healthy Ecosystems' metric.



Creates metrics to identify biodiversity impacts and inform biodiversity goals and targets.

Read more

Explains how to create and implement a biodiversity strategy.

Read more



#NatureIsEveryonesBusiness

Healthy societies, resilient economies and thriving businesses rely on nature.

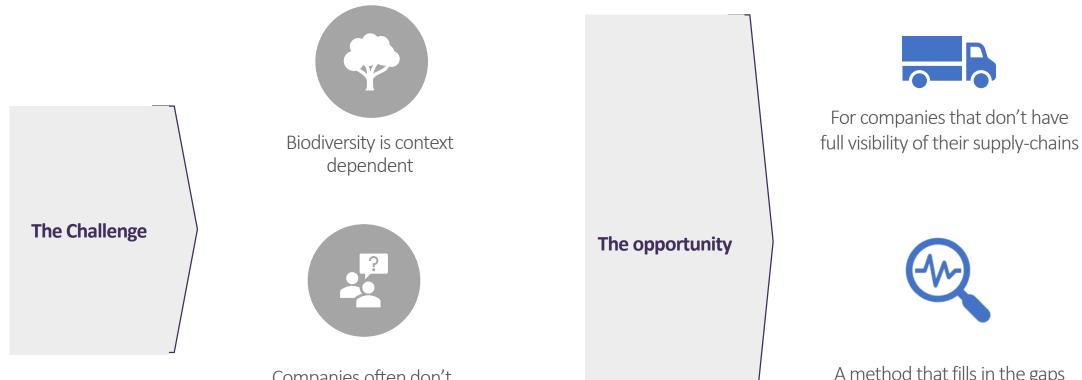
Governments must adopt policies now to reverse nature loss in this decade.

Together let's protect, restore and sustainably use our natural resources.

Read more

CISL's 'Biodiversity Impact Metric'

Supporting better stewardship of biodiversity – by business and finance



Companies often don't know where they operate

A method that fills in the gaps using credible data & assumptions

Metric uses globally available data to measure impacts

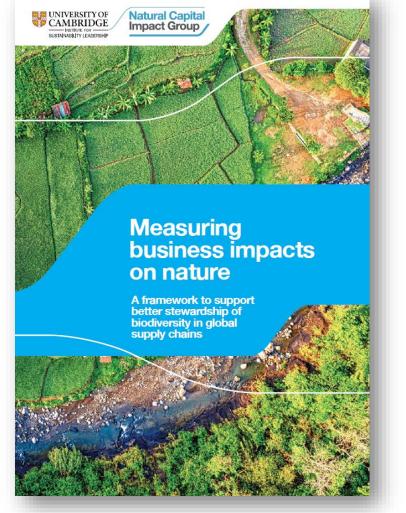
Helps business understand their impact on nature

Measure the impact from agricultural supply chains.

Identify high-risk locations

Inform the development of strategies, goals and targets.

Align with global goals for nature





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Is my company at greater risk of having an impact in some regions compared with others?



Are particular materials likely to have greater impact?



Where might I need to improve my traceability/visibility of suppliers?



Where should I prioritise interventions – e.g. certification, work with farmers?



Can I assess risk of potential suppliers?

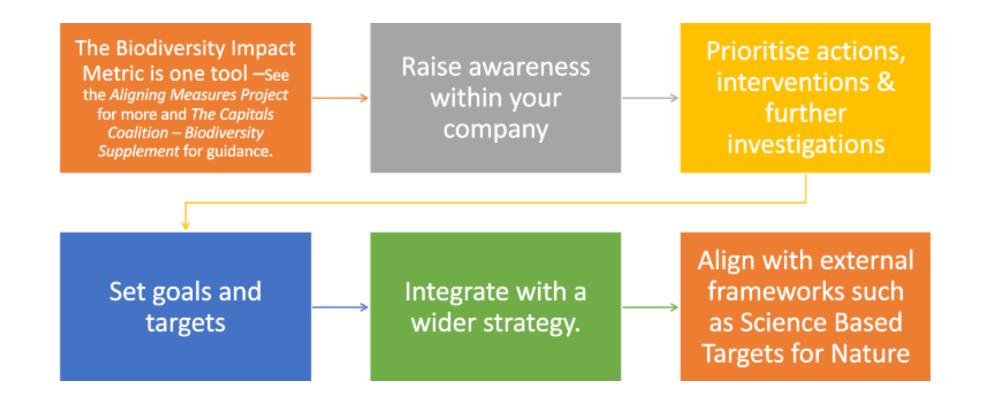


Where might I need more granular biodiversity data?

Steps to turn impact measurement into action



Developing a corporate biodiversity strategy



Examples of leadership from financial institutions



New funds and commitments are emerging



- Financing related to the world's stocks of natural assets such as soil, air and water.
- JV between HSBC GAM and Pollination Group
- Aims to mainstream natural capital as an asset class, e.g. soil, water
- Investment themes will include regenerative agriculture and sustainable forestry
- First fund aims to raise USD 1 billion; aims to launch in mid-2021
- Second fund: carbon credit focus, USD 2 billion target
- Example of collaboration between finance and technical partners



- Natixis is "mobilising its business lines to promote biodiversity"
- Biodiversity to included in 2021 strategic plan
- Biodiversity impact and measurement reporting standards for clients by 2022
- Mirova's Natural Capital focus includes funds **investing in nature-based solutions**
- Mirova strategies include: 'land degradation neutrality', 'climate' [deforestation focus], 'sustainable oceans' and 'brazil biodiversity'
- Significant focus on **sustainable** agriculture



- Public-partnership to finance landscapes focussed on green growth and sustainable rural livelihoods
- Blended finance structure
- Inaugural USD 95 million bond for sustainable natural rubber production
- Tenors up to 15 years
- Impacts targeted include land conservation and fair-wage jobs
- Another example of partnership between public and private finance, as well as with technical partners to design and verify sustainability outcomes

Landscape Finance: read more

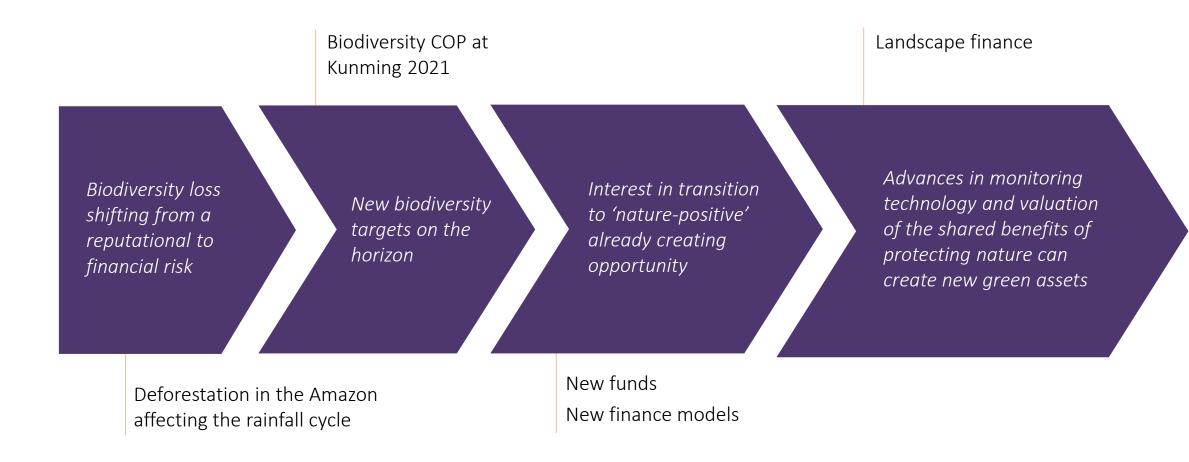


- Provides concessional finance and grants for nature-positive agriculture and rural livelihoods
- USD 1 billion target
- Commercial and development banks source capital, utilising public-private guarantees
- Investment targets project ticket
 sizes of USD 2 15 million
- Tenors up to 12 years
- Eligibility based on KPIs related to land restoration, CO2 emissions, contribution to household income and employees trained
- Acknowledges that nature degradation is often the result of livelihood insecurity

What next for nature-related finance?

Context that supports action





Points of contact





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