

A wake up call for companies on biodiversity action





Target 15

Requires transnational companies and financial institutions to monitor, assess, and transparently disclose risks and impacts on biodiversity through their operations, portfolios, supply and value chains.

Assessing biodiversity/ nature is complex...

















- No single metric
- Highly location-specific
- Difficult to assign economic value of ecosystem services

TNFD provides BOTH a disclosure and risk management framework





Identification and assessment of nature-related issues

Locate

The interface with nature

Evaluate

Dependencies & impacts

Assess

Risks & opportunities

Prepare

To respond & report



Recommended Disclosures

Governance

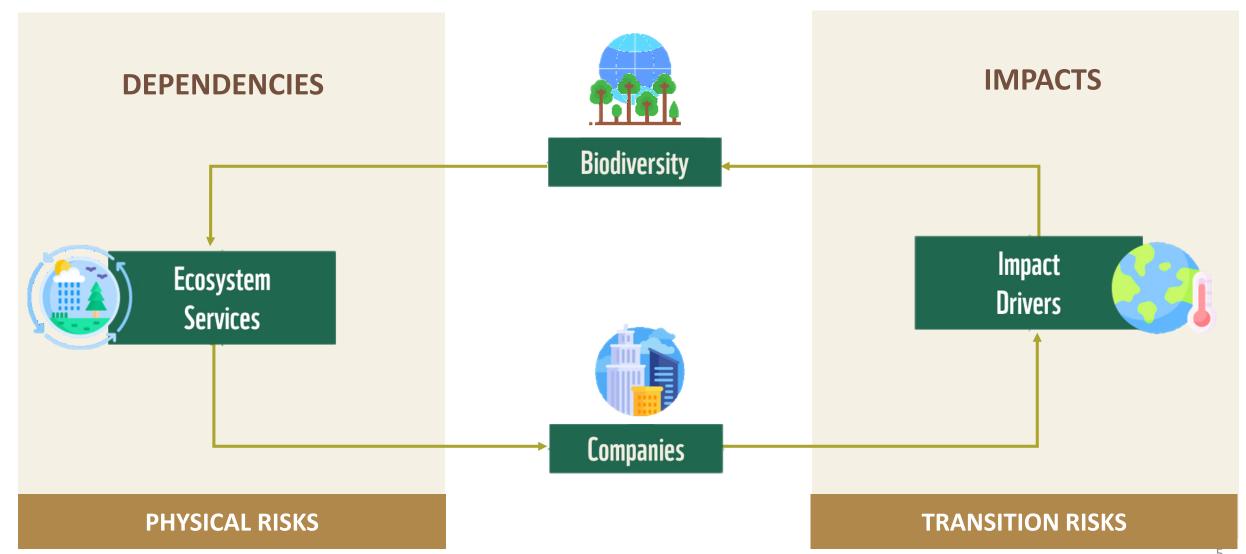
Strategy

Risk & impact management

Metrics & Targets

Measuring biodiversity using the concept of double materiality



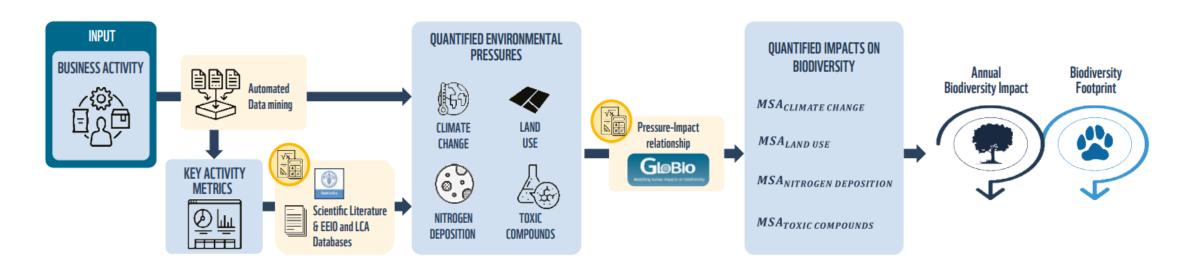


Quantifying impact on biodiversity - Corporate Biodiversity Footprint (CBF)





- Calculates the **biodiversity footprint of financial institutions**
- Scientifically robust and includes all main drivers of biodiversity loss
- Uses the Mean Species Abundance (MSA) metric



Bottom-up assesment

Corporate activity based on their reported/modelled output

Life-Cycle Analysis

Using Life Cycle Assessment data allows to quantify the environmental pressures along the entire supply chain

Normalisation

Impact is calculated on financial ratios allowing crosscomparisons

Applications of biodiversity footprint in the real world





BNP PARIBAS







HSBC World ESG Biodiversity Screened Equity UCITS ETF

HSBC's first biodiversity screened ETF which provides investors with the opportunity **to build biodiversity 'risk aware' considerations into their portfolios.** The ETF uses a biodiversity screening methodology which builds upon the CBF.

Biodiversity Risk Filter (BRF) provides a first step to assess biodiversity





Link to the BRF Tool:



https://riskfilter.org/



Purpose

Corporate-level screening & prioritisation

Aligned with TNFD & SBTN



Ease of Access

Open-source

Web-based

Over 80 key data sets translated into company-relevant terms



Scope

Covers all industries

Spatially explicit

4 key functionalities of the WWF BRF



Why to act?

Where to act?

How to act?



INFORM

Industry materiality

Explore different industry sector's dependencies on ecosystem services and impacts on biodiversity



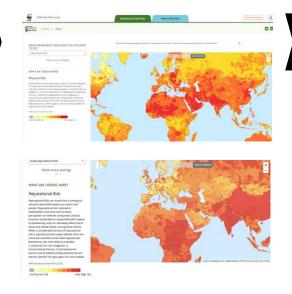




EXPLORE

Biodiversity risk heat-maps

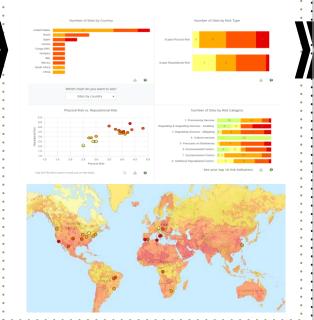
Shows high-risk regions across activities to enable focus on higher-risk locations.



ASSESS

Biodiversity risk rating

Combines industry materiality rating and local biodiversity importance to provide risk scores and prioritize areas for action





RESPOND

Response measures

Provides suitable response actions per and across locations based on risks and opportunities



Case study: Applying BRF to portfolio analysis of MSCI ACWI companies



- Assessed a portfolio of 605 MSCI ACWI companies and their respective 7,629 global operational sites,
- Spanning 24 industry sectors

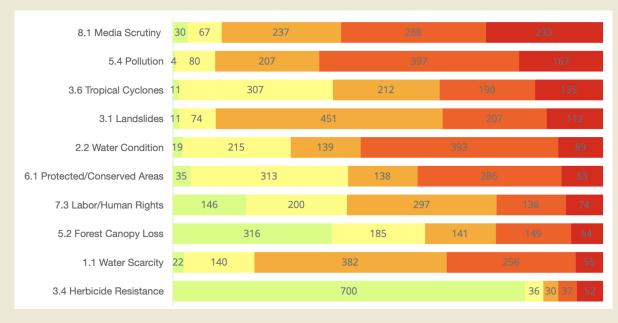
Portfolio-level results

Number and percentage of total companies in the sample portfolio by physical and reputational risk score

| Risk score | | Physical risk | | Reputational risk | |
|------------|----------------|------------------|----------------|-------------------|----------------|
| | | Nr. of companies | % of companies | Nr. of companies | % of companies |
| 1.0 - 1.4 | very low risk | 0 | 0.00% | 0 | 0.00% |
| 1.4 - 1.8 | | 0 | 0.00% | 0 | 0.00% |
| 1.8 - 2.2 | low risk | 0 | 0.00% | 0 | 0.00% |
| 2.2 - 2.6 | | 2 | 0.33% | 5 | 0.83% |
| 2.6 - 3.0 | medium risk | 151 | 24.96% | 137 | 22.64% |
| 3.0 - 3.4 | | 250 | 41.32% | 313 | 51.74% |
| 3.4 - 3.8 | high risk | 141 | 23.31% | 99 | 16.36% |
| 3.8 - 4.2 | | 34 | 5.62% | 30 | 4.96% |
| 4.2 - 4.6 | very high risk | 16 | 2.64% | 19 | 3.14% |
| 4.6 - 5.0 | | 11 | 1.82% | 2 | 0.33% |

Allows to **prioritise high risk companies** for company and site level deep dive on the risk exposure

Number of companies by top 10 risk indicators (not from the case study, just for illustrative purpose)



Allows to prioritise key biodiversity topics across portfolio companies

Case study: Applying BRF to portfolio analysis of MSCI ACWI companies



Industry-level results

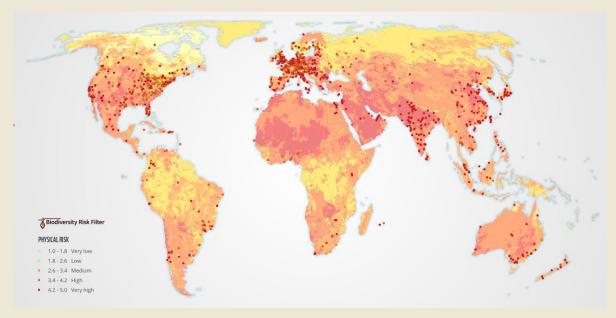
Average industry risk score (physical and reputational) and percentage of total portfolio per industry

| Industry (WWF Risk Filter sector classification) | Physical risk score | Reputational risk score | Percentage of total sample portfolio |
|--|------------------------|-------------------------|--|
| Agriculture (animal products) | 3.8 | 3.5 | 3.7% |
| Agriculture (plant products) | 3.9 | 3.7 | 4.4% |
| Appliances & General Goods Manufacturing | 2.7 | 2.8 | 7.3% |
| Appliances & General Goods Manufacturing | 2.9 | 3 | 6.7% |
| Construction Materials | 3.6 | 3.1 | 5.4% |
| Electric Energy Production - Solar, Wind | 3 | 2.9 | 4.7% |
| Electronics & Semiconductor Manufacturing | 2.6 | 2.7 | 7.0% |
| Fishing and aquaculture | 3.8 | 3.3 | 2.6% |
| Food & Beverage Production | 3.2 | 3.1 | 8.2% |
| General or Speciality Retailing | 2.8 | 2.3 | 6.7% |
| Health Care, Pharmaceuticals and Biotechnology | 3.2 | 2.7 | 6.8% |
| Hospitality Services | 3.4 | 3.1 | 3.9% |

Allows to identify the industries with the highest physical and reputational risk scores

Company-level results

Global mapping of physical risk scores of all sites of the sample portfolio analysed (each dot presents a specific company site)



- Allows to identify companies with the highest reputational and/or physical risk exposure within the portfolio
- Allows to identify the geographical distribution of the companies' risk exposure

