

RI Team

RBC BlueBay Asset Management

Published June 2024

"Despite
the global
economy's
dependence on
nature, efforts
to quantify
related risks and
opportunities
have been
constrained
by a lack of
consistent and
reliable data."

Nature and why it matters to investors

Nature-derived services are important for the global economy. Research from the World Economic Forum (WEF) found that over half of the world's Gross Domestic Product (GDP) is either moderately or highly dependent on nature and its services¹. For example, fresh water is critical to many businesses, including agriculture, mining, and food retailing; genetic diversity in nature is critical to the pharmaceutical industry; and intact wetlands and forests protect buildings and infrastructure from flooding, storms, and natural disasters.

Nature refers to the natural world. It is generally considered to consist of four realms: land, ocean, freshwater and atmosphere. Each of these differs in terms of their organization and function, and provides an important starting point for understanding how organizations and people depend, and have impacts, on nature².

The potential systemic impacts of nature-related factors are also increasingly being recognized. While not a legally binding agreement, the adoption of the Kunming-Montreal Global Biodiversity Framework (GBF) by 188 countries in December 2022 was an important development as it set out goals, targets, and expectations regarding national commitments that aim to halt and reverse nature loss³.

Despite the global economy's dependence on nature, efforts to quantify related risks and opportunities have been constrained by a lack of consistent and reliable data and methodologies. Recent progress has been made with the release of the Taskforce on Nature-related Financial Disclosures' (TNFD) final recommendations in September 2023⁴. The TNFD provides a voluntary framework and sector-specific guidance for the disclosure of nature-related dependencies, impacts, risks, and opportunities⁵.

New Nature Economy Report II: The Future of Nature and Business, World Economic Forum, July 2020.

² Recommendations of the Taskforce on Nature-related Financial Disclosures (TNFD), TNFD, September 2023.

³ COP15: Nations adopt four goals, 23 targets for 2030 in landmark UN Biodiversity Agreement, Convention on Biological Diversity, December 2022.

⁴ <u>Taskforce on Nature-related Financial Disclosures (TNFD) Recommendations</u>, September 2023.

⁵ Additional Guidance for financial institutions, TNFD, September 19, 2023.

Description of nature-related impacts and dependencies

The TNFD defines nature-related risks as potential threats posed to an organization, which are linked to its (and wider society's) dependencies and impacts on nature. These can derive from physical, transition, and systemic risks, which may create a disruption in an issuer's activities or value chains, volatility in raw materials prices, adaptation costs, stranded assets, or capital destruction, among others. There are also nature-related opportunities, which create positive outcomes for organizations and nature by creating positive impacts on nature or mitigating negative impacts on nature. These include activities that avoid, reduce, mitigate, or manage nature-related risks, or that actively work to reverse the loss of nature, including through restoration or regeneration of nature, and implementation of nature-based solutions.

"Biodiversity loss presents risks to companies as it can affect value chains, increase the cost of inputs and raw materials, disrupt operations."

Interconnections between nature and climate change

Historically, nature-related risks, including those stemming from biodiversity loss, have tended to be discussed separately from climate change. There has been growing recognition however of the interconnections between nature and climate change. Climate change contributes to water shortages, land degradation, biodiversity loss and other nature-related risks. Healthy and effectively functioning natural ecosystems absorb and store carbon emissions, and help mitigate temperature and precipitation changes, while also enabling climate adaptation. These interconnections are the basis for a growing emphasis on considering nature-related factors alongside climate change.

Biodiversity is a characteristic of nature and natural capital. It can be defined as the variety of all living species on Earth, including flora and fauna, as well as bacteria, fungi and natural ecosystems. Biodiversity loss presents risks to companies as it can affect value chains, increase the cost of inputs and raw materials, disrupt operations, result in legal fines or liabilities, and ultimately affect operations and profitability. The scale of biodiversity loss currently occurring is believed to pose a systemic risk that could affect multiple asset classes and sectors. As a result, there is increasing regulation and policy action by governments to address biodiversity loss, such as the 2023 EU regulation on deforestation-free products, which may pose additional legal or litigation risks for companies.



Nature-related impacts consider the interplay between an organization's operations and nature, and how that relationship may result in direct and indirect risks in the form of regulatory, legal, reputational, and market risks. Entities that greatly impact nature – for example, through emissions or waste – may face liability risks due to potential litigation.



Nature-related dependencies consider the extent to which a decline in an ecosystem service may present a financial risk to a business. For instance, organizations whose operations and/or revenues are highly dependent on water availability may face transition and physical risks, which can cause increased costs and/or decline in operations.



Climate change is o direct driver of biodiversity and nature loss. As temperatures rise, on increasing portion of species ore put at risk of extinction. The Intergovernmental Panel on Climate Change (IPCC) estimates that up to14% of species in terrestrial ecosystems will likely face very high risk of extinction, even if current efforts to mitigate climate change ore successful. This figure increases to 29% if overage global temperatures riseby 3°C from preindustrial levels by 2100, and up to 39% if they rise by 4°C by 2100.6"



Nature and biodiversity loss exacerbate the negative effects of climate change. This is because healthy and biodiverse ecosystems ploy on important role in absorbing emissions and heat, thereby helping to mitigate climate change, as well as in improving the Earth's ability to adopt to, and be resilient to natural disasters.

⁶ IPCC Report 2022: Climate Change 2022: Impacts Adaptation ond Vulnerability. Intergovernmental Panel on Climate Change (IPCC), Feb 2022.

RBC GAM approach to nature

RBC GAM is encouraged by the final recommendations of the TNFD. We seek to be transparent about our views and activities and share these through insight articles and reports. We first published our perspective on climate change and nature-related risks in our_Climate Report 2022, and enhanced our disclosures in the Climate Report 2023 to include our exposure to nature-related factors.

We may face exposure to nature-related factors through our investments in corporate issuers who are themselves exposed to these factors. For example, issuers in the following industries may face significant impacts and/ or dependencies from nature: agriculture, forestry and fisheries, energy, mining, transportation, food and beverages, apparel, utilities, chemicals, manufacturing, and construction⁷. We may also face indirect exposure via our investments in sovereign issuers. For example, economies that are highly reliant on industries such as agriculture, forestry or eco-tourism may face higher risks due to economic dependence on nature-derived products and/or ecosystem services.

RBC GAM's investment teams consider material ESG factors that they determine may impact the value or price of investments, for applicable investments⁸. This may include nature-related factors such as biodiversity and land use, natural resource use, water stress, sustainable forest management and other factors, when financially material to a sector or issuer. Investment teams have their own processes for integrating material ESG factors and for determining materiality, drawing from tools like the Sustainability Accounting Standards Board (SASB)9 materiality matrix, internal research and resources, speaking with industry experts, and sell-side and external research. They are also equipped with data and insights to manage the risk exposure of their portfolios, with data available on a wide range of factors, including financial and nature-related factors. Investment teams integrate material ESG factors into their portfolio management decisions in a manner that complements their distinct investment approaches and mandates.

Active stewardship is also an important part of <u>Our Approach to Responsible Investment</u>, and includes engagement with issuers and regulators, proxy voting, and collaboration with like-minded investors and associations¹⁰.



Since 2020, we have participated in the Investor Policy Dialogue on Deforestation (IPDD), which is a collaborative initiative that focuses on engaging with sovereign issuers on the issue of deforestation. Our investment teams may meet with the issuers in which we invest on an ongoing basis. The specific ESG factors we engage on differs based on several items. For corporate issuers this can include the issuers' operations, industry, size, geographical footprint, and the nature of the investment vehicle for which it is being purchased. For sovereign issuers, material ESG factors can depend on the country's status of economic, social and political development, availability of and dependence on natural resources, and potential regional issues, among other factors. Teams may also prioritize their engagement efforts based on the size of the investment and/ or the level of ESG risk within the portfolio.

Voting responsibly is part of our fiduciary duty. it is our policy to exercise the voting rights of the accounts we manage in the best interests of our clients. Our proxy voting activities are governed by our **Proxy Voting** Guidelines¹¹ (guidelines) and applicable regional proxy voting policies, which set out procedures for administering our votes, escalating any voting issues, and identifying and managing conflicts of interest. In March 2024, we updated our guidelines to include guidance on how we evaluate nature-related shareholder proposals, and that we will generally support proposals requesting that a company disclose the organization's governance around naturerelated risks and opportunities. The guidelines state that as issuers continue to advance their understanding of the materiality of nature-related factors to their businesses, they should consider related disclosures that take into consideration the TNFD recommendations and guidance.

⁷ The Climate-Nature Nexus, An investor guide to expanding from climate- to nature- data, United Nations Environment Programme World Conservation Monitoring Centre (UNEP-WCMC), Finance for Biodiversity Initiative, April 2022.

⁸ Certain investment strategies or asset classes do not integrate ESG factors, including but not limited to money market, buy-and-maintain, passive and certain third-party sub-advised strategies.

⁹ As of 2022, the International Sustainability Standards Board (ISSB) of the IFRS Foundation assumed responsibility for the SASB Standards.

¹⁰ In certain instances involving quantitative investment, passive and certain third-party sub-advised strategies, there is no direct engagement with is suers by RBC GAM.

¹ For applicable regions. Our custom Proxy Voting Guidelines are applied in Canada, the U.S., the UK, Ireland, Australia, and New Zealand. In all other markets, RBC GAM applies Institutional Shareholder Services (ISS) local proxy benchmark voting policies.

Overview of RBC GAM's commitments and actions related to nature and biodiversity



Build knowledge and understanding of potential material risks that nature related factors, and biodiversity loss specifically, may pose.

- We share our views through ESG insight articles. To date, we have published articles on the interconnections between climate change and biodiversity, investor perspectives on biodiversity and COP15, and a new year for nature.
- **Updated Our Approach to Climate Change** in 2022 to include a commitment to continue assessing the role of land use dynamics in climate change mitigation and adaptation.
- Participated in the United Nations PRI delegation at COP15, the United Nations Convention on Biological Diversity's global conference.



Identify and assess the materiality of nature-related risks to Investments, from the perspective of both impacts and dependencies, guided by the recommendations of the TNFD.

- **Continue to evaluate data and tools** for assessing exposure to nature-related risks, opportunities, impacts and dependencies.
- Assessed and disclosed exposure to TNFD priority sectors, and the associated naturerelated impacts and dependencies in our <u>Climate Report 2023</u>.
- **Used location-based data** to identify corporate issuers operating in biodiversity sensitive locations, and assessed whether they have been involved in biodiversity-related controversies. We shared this analysis in our <u>Climate Report 2023</u>.



Continue to work collaboratively with other investors on nature-related issues through industry initiatives, and to use engagement and thoughtful proxy voting on topics, where relevant¹².

- Participate in collaborative initiatives focused on nature. This includes our continued support of the IPDD, the Farm Animal Investment Risk & Return (FAIRR) and the workstream of the Emerging Markets Investors Alliance (EMIA), which is focused on deforestation by food producers.
- Our proxy voting activities are governed by our <u>Proxy Voting Guidelines</u>, which include voting guidelines on nature-related factors such as an issuer's impact on the environment (e.g., toxic emissions, water risks, environmental liabilities). We vote our shares independently and review these on a case-by-case basis and in line with our guidelines. The guidelines were updated in March 2024 to provide greater clarify on how we vote on issues related to nature-related risks.
- Conduct individual engagements with issuers on nature-related topics, as appropriate. For example, the RBC emerging markets equity team has conducted a biodiversity-related review of issuers in which they are invested, and conducted engagements on this topic with issuers.



Provide transparent reporting and continue to enhance disclosures.

- First published our perspective on climate change and nature-related risks in our Climate Report 2022, and enhanced our disclosures in the <u>Climate Report 2023</u> to include our exposure to nature-related factors.
- **RBC GAM is encouraged by the final recommendations of the TNFD**. In our Climate Report 2023 we disclosed the two core metrics recommended for asset managers by the TNFD¹³.

¹² In certain instances involving quantitative investment, passive and certain third-party sub-advised strategies, there is no direct engagement with issuers by RBC GAM.

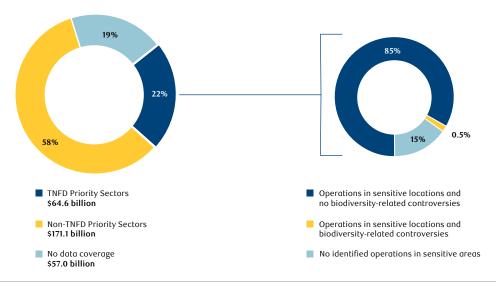
¹³ Additional Guidance for financial institutions, TNFD, September 19, 2023.



RBC GAM's assessment of exposure to nature-related factors

RBC GAM continues to take steps to build our knowledge and understanding of material risks that nature-related factors may pose to investments. In 2023, we assessed the exposure of our equity and corporate fixed income investments to nature-related dependencies and impacts for priority sectors, which is a core metric for asset managers recommended by the TNFD¹⁴. This analysis showed that 22% (\$US64.6 billion) of RBC GAM's equity and corporate bond holdings are in TNFD priority sectors¹⁵. However, exposure to a TNFD priority sector is not necessarily indicative of the potential risk that issuers in that sector may face. As such, we also assessed whether issuers in these sectors have operations in sensitive locations, or biodiversity-related controversies¹⁶. For assets invested in TNFD priority sectors, 85% may have operations in sensitive locations. However, only 0.5% have also been involved in biodiversity-related controversies¹⁷.

RBC GAM equities and corporate bond investments in TNFD priority sectors, and operations in sensitive locations and/or with biodiversity-related controversies¹⁸



Source: RBC Global Asset Management as at December 31, 2023

¹⁴ Additional Guidance for financial institutions, TNFD, September 19, 2023.

We categorized our corporate holdings into sixteen TNFD priority sectors, based on the corporate entity's Nomenclature of Economic Activities (NACE) Class Code for the highest revenue earning activity. See RBC GAM Climate Report 2023 for scope of analysis.

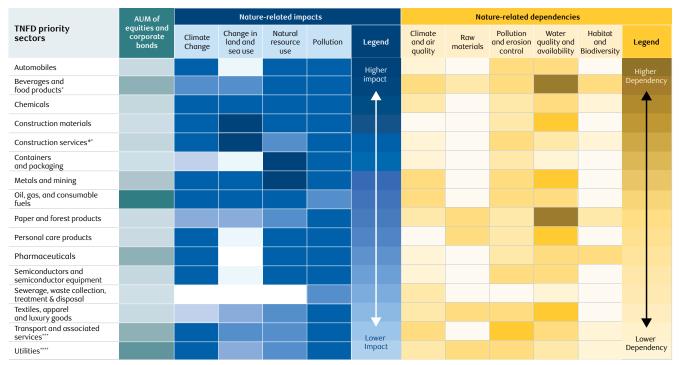
Identification of sensitive locations is based on MSCI Biodiversity-Sensitive Areas and Deforestation Screening Metrics, which identify companies with operations in ecologically sensitive areas or with exposure to potential direct and indirect involvement in deforestation, using location-based data. Operations in sensitive areas are defined as companies with three or more known physical assets in Biodiversity Sensitive Areas denoted as either being healthy forests, intact biodiversity areas, prime areas for conservation or deforestation fronts. Operations in sensitive locations and biodiversity-related controversies are defined as companies that report having operations located in or near to biodiversity sensitive areas and have been implicated in controversies with a severe or very severe adverse impact on the environment. All data as at December 31, 2023, RBC GAM analysis based on MSCI ESG Research, MSCI®.

¹⁷ <u>INFD priority sectors based on Additional Guidance for financial institutions, TNFD, September 19, 2023.</u> All data as at December 31, 2023, RBC GAM analysis based on MSCI ESG Research, MSCI®.

¹⁸ See RBC GAM Climate Report 2023 for scope of analysis. RBC GAM analysis, based on MSCI ESG Research, MSCI®.

To better understand the materiality of nature-related dependencies and impacts for investments in priority sectors we used the Exploring Natural Capital Opportunities, Risks and Exposure (ENCORE) tool. Based on this analysis, the most significant nature-related impact of these investments across all sectors is related to pollution, and the most significant dependency is on water quality and availability. It is worth noting that the materiality of any risks related to this exposure is influenced by the actions taken by issuers to mitigate the risk and if, or how, this affects the valuation or price of securities.

RBC GAM equities and corporate bond investments in TNFD priority sectors, and nature-related impacts and dependencies¹⁸



^{*}includes agriculture

Source: RBC Global Asset Management as at December 31, 2023

RBC BlueBay Asset Management (RBC BlueBay) represents RBC Global Asset Management (RBC GAM) outside of North America and invests across fixed income, equities and alternatives. RBC BlueBay proactively engages in many aspects of responsible investment. The initiatives outlined within this report encompass our entire asset management business globally.

¹⁹ The ENCORE tool is maintained and updated by Global Canopy, UNEP FI and UNEP-WCMC. Accessed February 7, 2024.

^{**}includes manufacture of metal products

^{***}includes passenger airlines

[&]quot;"including electric utilities, gas utilities, independent power and renewable electricity producers, and water utilities

See RBC GAM Climate Report 2023 for scope of analysis. Link. RBC GAM analysis, based on ENCORE data. Nature-related impacts and dependencies are defined as per ENCORE but grouped based on RBC GAM analysis. RBC GAM groupings (with ENCORE categories in parenthesis) are as follows. For nature-related impacts: Climate Change (GHG Emissions), Land and water use (Freshwater ecosystem use, marine ecosystem use, terrestrial ecosystem use), Natural resource use (Water use, other resource use), Pollution (Disturbances, non-GHG air pollutants, Solid pollutants, Solid Waste, Water pollutants). For nature-related dependencies: Climate and air quality (Climate regulation, Filtration, Ventilation), Raw materials (animal-based energy, Fibers and other materials), Pollution and erosion control (Buffering and attenuation of mass flows, Bio-remediation, Dilution of atmosphere and ecosystems, Mediation of sensory impacts, Flood and storm protection, Mass stabilization and erosion control), Water quality and availability (Ground water, Surface water, Water flow maintenance, Water quality), Habitat and Biodiversity (Genetic materials, Pollination, Disease control, Pest control, Maintain nursery habitats, and soil quality).

This document is a marketing communication and it may be produced and issued by the following entities: in the European Economic Area (EEA), by BlueBay Funds Management Company S.A. (BBFM S.A.), which is regulated by the Commission de Surveillance du Secteur Financier (CSSF). In Germany, Italy, Spain and Netherlands the BBFM S.A is operating under a branch passport pursuant to the Undertakings for Collective Investment in Transferable Securities Directive (2009/65/EC) and the Alternative Investment Fund Managers Directive (2011/61/EU). In the United Kingdom (UK) by RBC Global Asset Management (UK) Limited (RBC GAM UK), which is authorised and regulated by the UK Financial Conduct Authority (FCA), registered with the US Securities and Exchange Commission (SEC) and a member of the National Futures Association (NFA) as authorised by the US Commodity Futures Trading Commission (CFTC). In Switzerland, by BlueBay Asset Management AG where the Representative and Paying Agent is BNP Paribas Securities Services, Paris, succursale de Zurich, Selnaustrasse 16, 8002 Zurich, Switzerland. The place of performance is at the registered office of the Representative. The courts at the registered office of the Swiss representative or at the registered office or place of residence of the investor shall have jurisdiction pertaining to claims in connection with the offering and/or advertising of shares in Switzerland. The Prospectus, the Key Investor Information Documents (KIIDs), the Packaged Retail and Insurance-based Investment Products - Key Information Documents (PRIIPs KID), where applicable, the Articles of Incorporation and any other document required, such as the Annual and Semi-Annual Reports, may be obtained free of charge from the Representative in Switzerland. In Japan, by BlueBay Asset Management International Limited which is registered with the Kanto Local Finance Bureau of Ministry of Finance, Japan. In Asia, by RBC Global Asset Management (Asia) Limited, which is registered with the Securities and Futures Commission (SFC) in Hong Kong. In Australia, RBC GAM UK is exempt from the requirement to hold an Australian financial services license under the Corporations Act in respect of financial services as it is regulated by the FCA under the laws of the UK which differ from Australian laws. In Canada, by RBC Global Asset Management Inc. (including PH&N Institutional) which is regulated by each provincial and territorial securities commission with which it is registered. RBC GAM UK is not registered under securities laws and is relying on the international dealer exemption under applicable provincial securities legislation, which permits RBC GAM UK to carry out certain specified dealer activities for those Canadian residents that qualify as "a Canadian permitted client", as such term is defined under applicable securities legislation. In the United States, by RBC Global Asset Management (U.S.) Inc. ("RBC GAM-US"), an SEC registered investment adviser. The entities noted above are collectively referred to as "RBC BlueBay" within this document. The registrations and memberships noted should not be interpreted as an endorsement or approval of RBC BlueBay by the respective licensing or registering authorities. Not all products, services or investments described herein are available in all jurisdictions and some are available on a limited basis only, due to local regulatory and legal requirements.

This document is intended only for "Professional Clients" and "Eligible Counterparties" (as defined by the Markets in Financial Instruments Directive ("MiFID") or the FCA); or in Switzerland for "Qualified Investors", as defined in Article 10 of the Swiss Collective Investment Schemes Act and its implementing ordinance, or in the US by "Accredited Investors" (as defined in the Securities Act of 1933) or "Qualified Purchasers" (as defined in the Investment Company Act of 1940) as applicable and should not be relied upon by any other category of customer.

Unless otherwise stated, all data has been sourced by RBC BlueBay. To the best of RBC BlueBay's knowledge and belief this document is true and accurate at the date hereof. RBC BlueBay makes no express or implied warranties or representations with respect to the information contained in this document and hereby expressly disclaim all warranties of accuracy, completeness or fitness for a particular purpose. Opinions and estimates constitute our judgment and are subject to change without notice. RBC BlueBay does not provide investment or other advice and nothing in this document constitutes any advice, nor should be interpreted as such. This document does not constitute an offer to sell or the solicitation of an offer to purchase any security or investment product in any jurisdiction and is for information purposes only.

No part of this document may be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, in whole or in part, for any purpose in any manner without the prior written permission of RBC BlueBay. Copyright 2024 © RBC BlueBay. RBC Global Asset Management (RBC GAM) is the asset management division of Royal Bank of Canada (RBC) which includes RBC Global Asset Management (U.S.) Inc. (RBC GAM-US), RBC Global Asset Management Inc., RBC Global Asset Management (U.S.) Limited and RBC Global Asset Management (Asia) Limited, which are separate, but affiliated corporate entities. ® / Registered trademark(s) of Royal Bank of Canada and BlueBay Asset Management (Services) Ltd. Used under licence. BlueBay Funds Management Company S.A., registered office 4, Boulevard Royal L-2449 Luxembourg, company registered in Luxembourg number B88445. RBC Global Asset Management (UK) Limited, registered office 100 Bishopsgate, London EC2N 4AA, registered in England and Wales number 03647343. All rights reserved.

Published June 2024

RE/0103/06/24

