

Breakfast Inspiration Session – Biodiversity

23 May 2023



ASN Impact Investors San Lie Director



NAB

Laure Wessemius-Chibrac

Managing Director



Program of the Day

- 1. Welcome: San Lie, ASN Impact Investors
- 2. Opening: Laure Wessemius-Chibrac, NAB
- 3. Presentation: Arjan Udding and Toby Smith, Impact Institute
- 4. Presentation: Simona Kramer, Pensioenfonds Rail & OV
- 5. Presentation: Pjotr Tjallema, Triodos Investment Management
- 6. Presentation: Mark Van Doesburgh, Triple Jump
- 7. Presentation: Karin van Dijk, ASN Impact Investors
- 8. Q&A
- 9. Closing: Laure Wessemius-Chibrac, NAB



Breakfast Inspiration Session - Evaluation form Please scan the QR code below and fill up the evaluation form at the end of this session





Impact Institute Arjan Udding Director

Toby Smith

Manager

IMPACT INSTITUTE Biodiversity Impact Measurement

May 2023

impactinstitute.com



PERSONAL INTRODUCTIONS



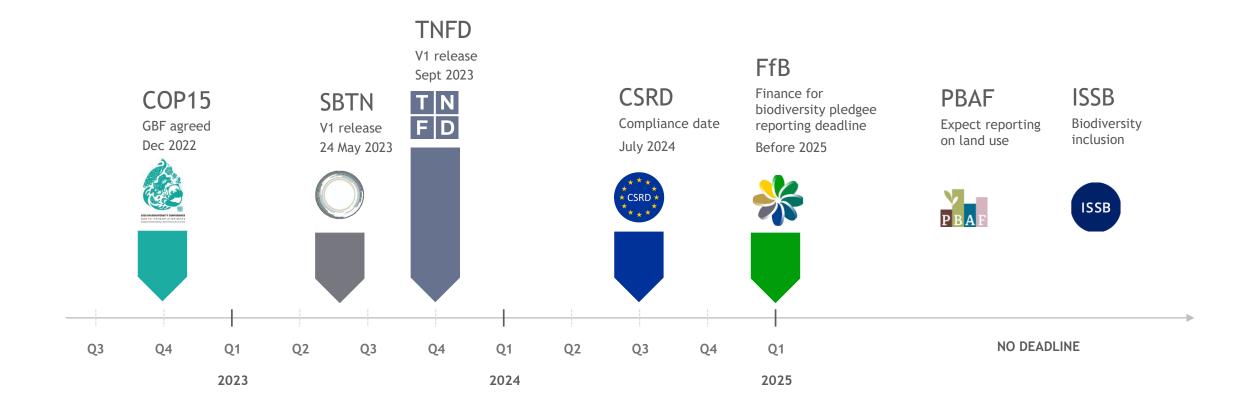
Arjan UDDING Director, Sustainable Finance Advisory team arjan@impactinstitute.com



Toby SMITH Manager, Data team toby@impactinstitute.com

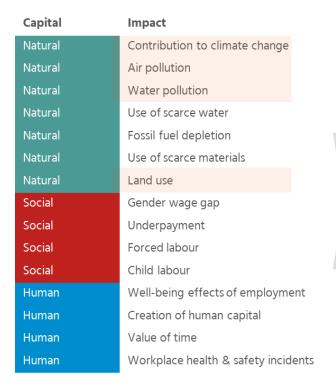


BIODIVERSITY TIMELINE | IMPORTANT POINTS





GID BIODIVERSITY | IMPACT COVERAGE

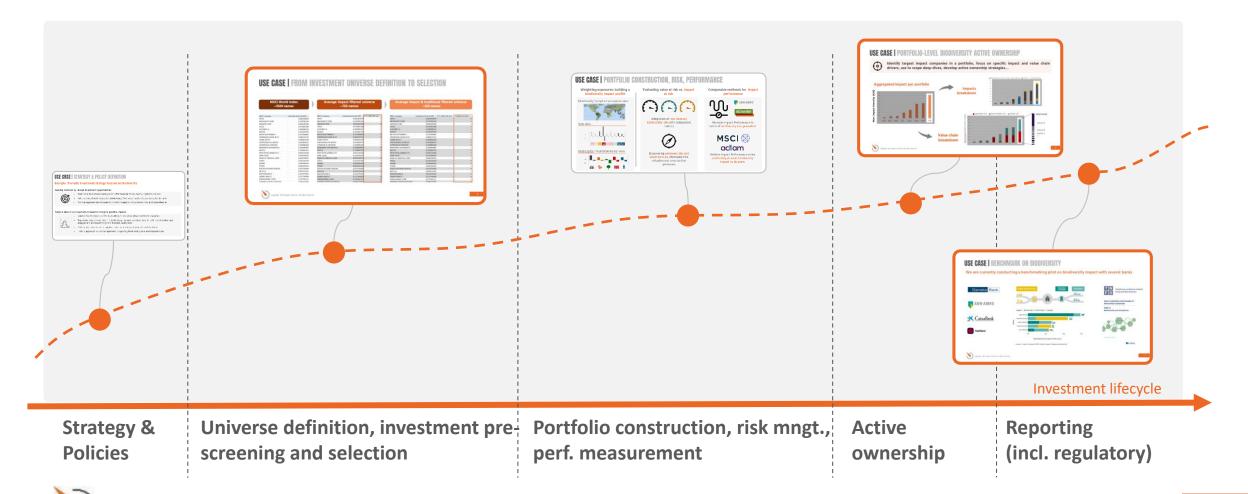


ImpactContribution to climate changeImpactAir pollutionImpactWater pollutionImpactLand use (42 geospatial crops)Impact

Single indicator		Monetisation
	١.	€
Loss of a hectare with pristine biodiversity <i>(biodiversity ha)</i>		Based on the value of ecosystem service, aligned with True Price monetisation



USE CASES | BIODIVERSITY IN THE INVESTMENT LIFECYCLE



USE CASE | FROM INVESTMENT UNIVERSE DEFINITION TO **SELECTION**

MSCI World Index ~1500 names

MSCI company	-	Intensity mon (Int.\$/\$) 💌
APPLE		0,482202878
MICROSOFT CORP		0,179781194
AMAZON.COM		0,696490568
TESLA		0,475801308
ALPHABET A		0,368908763
NVIDIA		0,141694746
META PLATFORMS A		0,737565861
JPMORGAN CHASE & CO		0,900152721
HOME DEPOT		0,306854109
UNITEDHEALTH GROUP		0,414856672
JOHNSON & JOHNSON		0,320886268
BERKSHIRE HATHAWAY B		0,784684887
NESTLE		0,718681452
PROCTER & GAMBLE CO		0.042410528
ASML HLDG		0,143034016
BANK OF AMERICA CORP		0,858790953
VISA A		0,115231702
ADOBE		0,540+99344
PFIZER		0,962592529
ROCHE HOLDING GENUSS		0,412791906
NETFLIX		0,879223525
MASTERCARD A		0,147475452
DISNEY (WALT)		0,727749506
EXXON MOBIL CORP		0,737401171
THERMO FISHER SCIENTIFIC		0 944357985

Average impact-filtered universe
~750 names

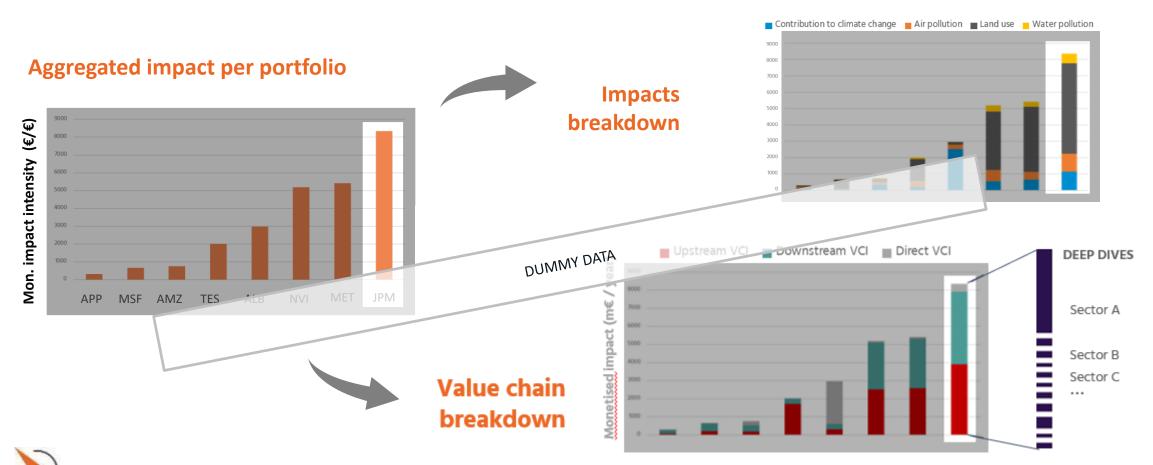
MSCI company	 Intensity mon (Int.\$/\$) 	
APPLE	0,482202878	1
MICROSOFT CORP	0,179781194	1
AMAZON.COM	0,696490568	0
TESLA	0,475801308	1
ALPHABET A	0,368908763	1
NVIDIA	0,141694746	1
META PLATFORMS A	0,737565861	0
JPMORGAN CHASE & CO	0,900152721	0
HOME DEPOT	0,306854109	1
UNITEDHEALTH GROUP	0 41 1600672	1
JOHNSON & JOHNSON	0,320886268 0,784 DU M	AV DATA 1
BERKSHIRE HATHAWAY B	0,784 DU SY	VITU
NESILE	0,718681452	0
PROCTER & GAMBLE CO	0,043110328	1
ASML HLDG	0,143034016	1
BANK OF AMERICA CORP	0,858790953	0
VISA A	0,115231702	1
ADOBE	0,540499344	0
PFIZER	0,962592529	0
ROCHE HOLDING GENUSS	0,412791906	1
NETFLIX	0,879223525	0
MASTERCARD A	0,147475452	1
DISNEY (WALT)	0,727749506	0
EXXON MOBIL CORP	0,737401171	0
THERMO EISHER SCIENTIFIC	0 944357985	0

Average impact & traditional filtered universe ~350 names

MSCI company	Intensity mon (Int.\$/\$) 1 if < MSCI WI ave	Traditional select 💌
APPLE	0,482202878	. 0
MICROSOFT CORP	0,179781194	1
AMAZON.COM	0,696490568	1
TESLA	0,475801308	. 1
ALPHABET A	0,368908763	. 1
NVIDIA	0,141694746	1
META PLATFORMS A	0,737565861	1
JPMORGAN CHASE & CO	0,900152721	1
HOME DEPOT	0,306854109	. 1
UNITEDHEALTH GROUP	0,414856672	0
JOHNSON & JOHNSON	0,320886268	0
BERKSHIRE HATHAWAY B	0,784684887	1
NESTLE	0,718681452	0
PROCTER & GAMBLE CO	0,043110328	1
ASML HLDG	0,143034016	1
BANK OF AMERICA CORP	0,858790953	1
VISA A	0,115231702	0
ADOBE	0,540499344	0
PFIZER	0,962592529	1
ROCHE HOLDING GENUSS	0,412791906	0
NETFLIX	0,879223525	1
MASTERCARD A	0,147475452	1
DISNEY (WALT)	0,727749506	0
EXXON MOBIL CORP	0,737401171	1
THERMO FISHER SCIENTIFIC	0 944357985	0



USE CASE | BIODIVERSITY ACTIVE OWNERSHIP DATA



Copyright 2023 Impact Institute. All rights reserved.

USE CASE | BENCHMARK ON BIODIVERSITY

We are currently conducting a benchmarking pilot on biodiversity impact with several banks







Pensioenfonds Rail en OV Simona Kramer

Portfolio Manager Socially Responsible Investing



Rail & OV on the way to biodiversity

Agenda

Why does biodiversity matter?

Rail & OV biodiversity journey

Lessons learned

Where do we currently stand?

Why is biodiversity relevant for institutional investors?

The estimated value of ecosystem services annually (almost twice global GDP):

\$150.000.000.000.000

The cost of decline in ecosystem functionality costs a year in the form of lost natural services: \$5.000.000.000.000

\$44.000.000.000.000

of economic value generation is moderately or highly dependent on nature

€510.000.000.000

financing of Dutch financial institutions to companies that are highly or very highly dependent on one or more ecosystem services

What activities cause biodiversity loss?



Land use Habitat conversion (e.g., deforestation), habitat fragmentation, and degradation through over intensive use of Ecosystems.



Exploitation Overexploitation of animals, plants, and ecosystems in general.



Pollution Release of I

Release of harmful substances (e.g., through excessive chemical use) into ecosystems, light and noise pollution.



Invasive alien species

Plants, animals, or other nonnative organisms entering or expanding their presence in a given Habitat.



Climate change

Shifts in temperature, precipitation, and wind flows caused by increased levels of greenhouse gases in the Atmosphere.

What sectors cause biodiversity loss?



Food & beverage

The negative impact comes through farming which involves the conversion and exploitation of ecosystems.



Infrastructure and mobility

Infrastructure development drives land-use change across previously pristine ecosystems, and the diversion of natural waterways.



Energy The extraction, production and transport of energy sources such as of coal, oil, gas, and other fossil fuels can disrupt terrestrial and

deep-sea ecosystems.



Fashion

The impact occurs at three stages: during farming and raw materials extraction, during the production of fabrics, and during consumer usage and disposal.



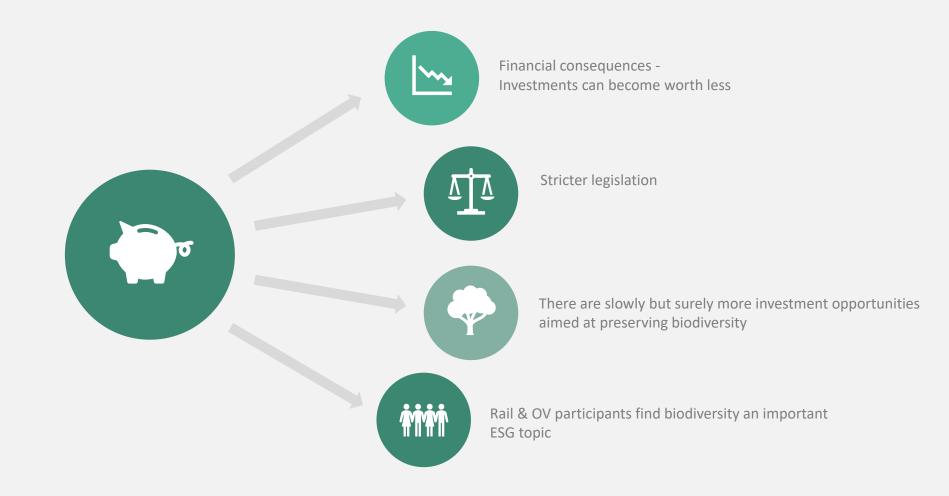
Mining Direct disruption of ecosystems due to extracting raw materials and minerals.



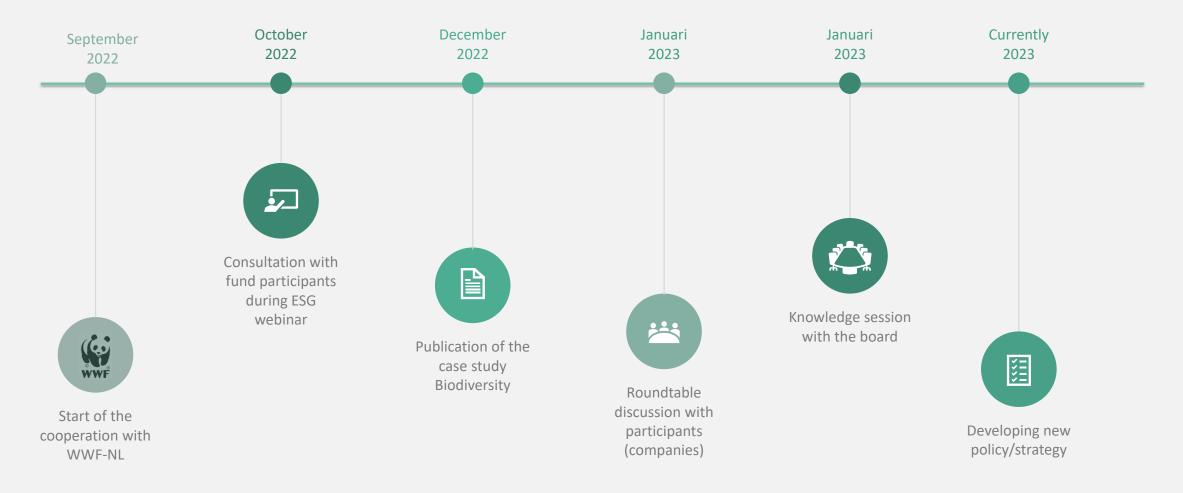
Forestry

The same accounts for forestry, a direct disruption of existing ecosystems or a transformation of land use.

Why is biodiversity relevant for Rail & OV?



Rail & OV biodiversity journey



Rail & OV case study

'The case study outlines a framework that provides insight into legislation and initiatives in the area of biodiversity, explains why biodiversity is an important topic for financial institutions and maps out the risks and dependencies of Rail & OV investments. The opportunities that biodiversity offers are also explained. '

We employ ENCORE data



ENCORE maps out how sectors may depend on or have an impact on Biodiversity.

Rates business processes on dependency and impact from very low to very high. This concerns generic (not company specific) processes.

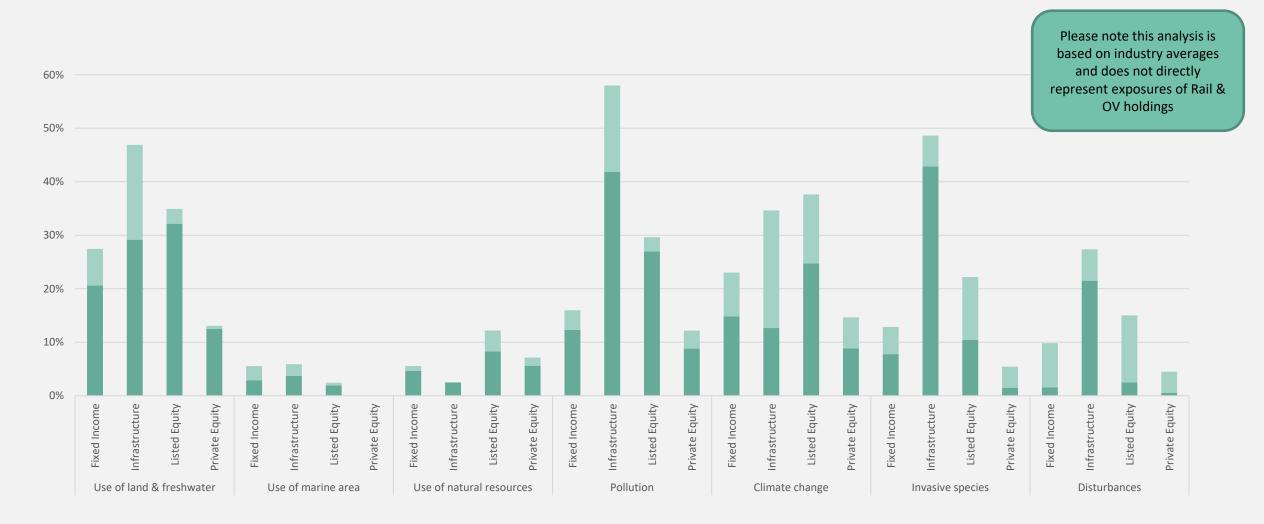
Please note! ENCORE assumes an average company within a sector. Individual exposures might deviate.

ENCORE analyses ecosystem services

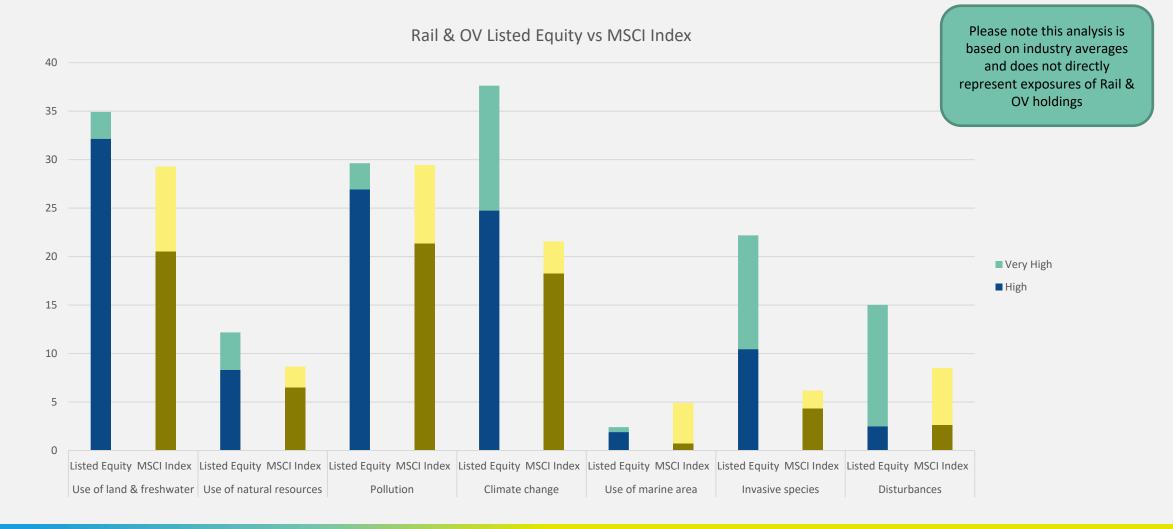
The contributions of ecosystems to human benefits that contribute to the economy and other activities.



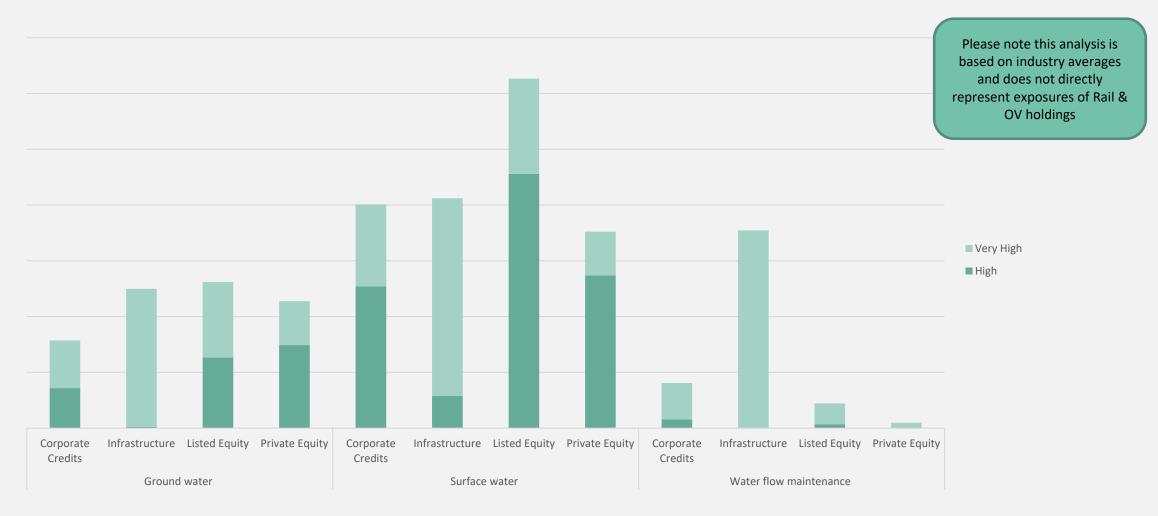
The impact of the Rail & OV portfolio



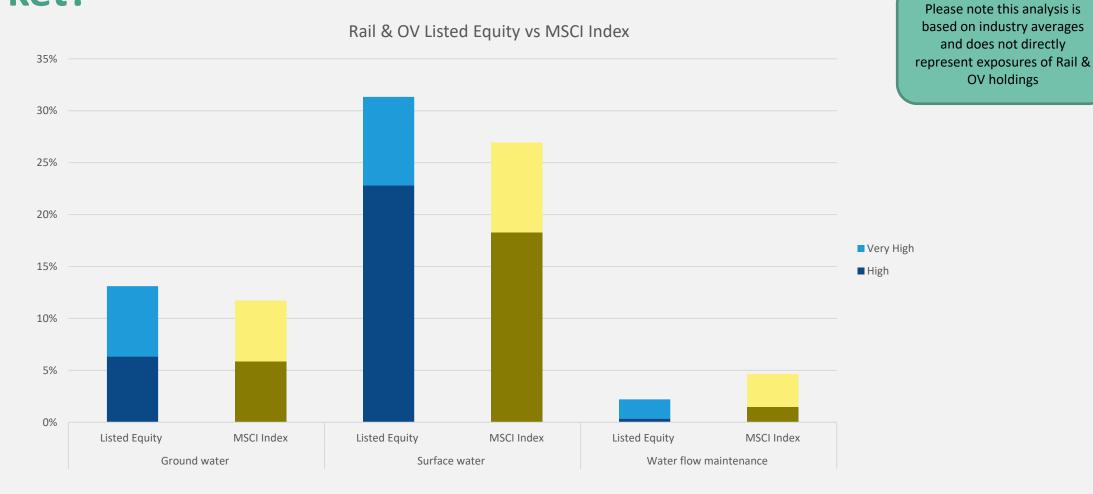
How does Rail & OV impact compare to the market?



How dependent is Rail & OV on biodiversity?



How does Rail & OV dependency compare to the market?



Industry standards and best practices



Policy and strategy



Goals and KPIs



Opportunities

portunites



Engagements



Risk and impact management



Transparency

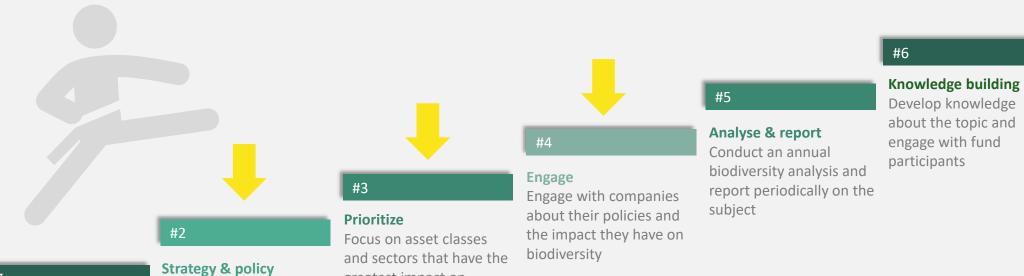
Opportunities

\$8.4 trillion in investments is needed by 2050 to finance solutions to combat climate change, loss of nature, and land degradation. The transition to nature-positive practices can generate more than \$10 trillion in economic growth by 2030 for food, land and ocean use, infrastructure and construction, energy and mining sectors.

Investing in resource efficiency Investing in biodiversityrelated and/or green funds

Green bonds

Rail & OV on the way to biodiversity



#1

25 mei 2023

Board-level importrance The topic should have board-level importance Formulating a policy and

strategy

greatest impact on biodiversity or are highly dependent on

biodiversity



Triodos Investment Management **Pjotr Tjallema**

Researcher Impact & Economics

Triodos & Nature: Branching out for biodiversity

NAB Biodiversity Inspiration Breakfast 23-5-2023 Pjotr Tjallema – Impact Researcher



Triodos Investment Management

We are a globally active impact investor.

We see impact investing as a driving force in the transition to a more sustainable and inclusive world.

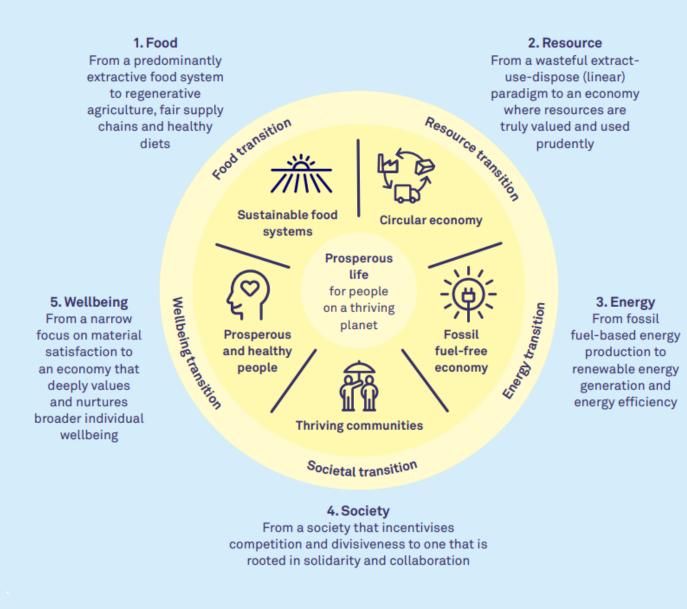
Triodos aims to accelerate transitions Systems change for positive impact

Humans are part on nature, and we depend on it for our wellbeing and survival.

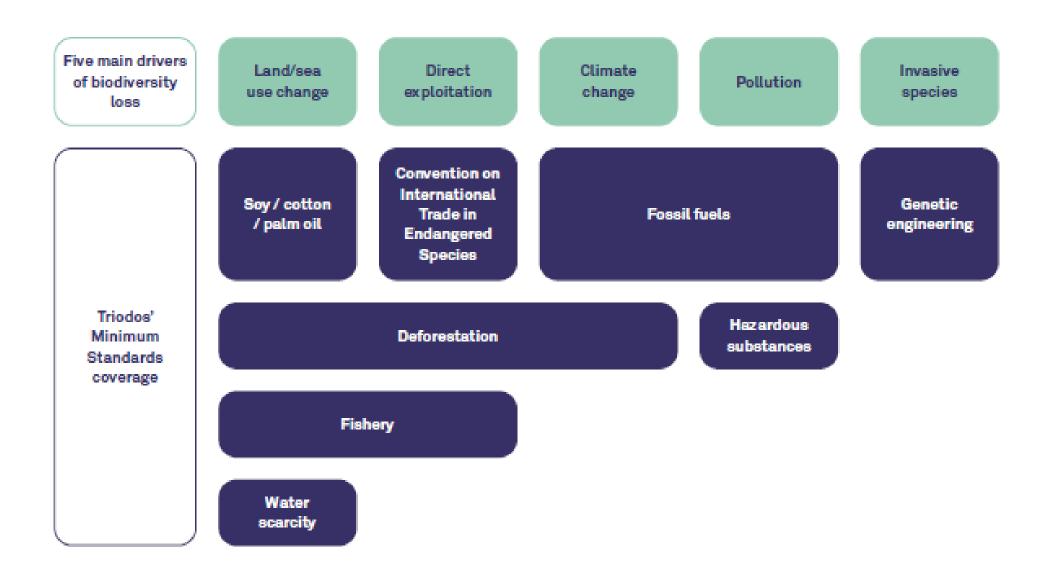
For avoidance of negative impact and making a positive impact on biodiversity, we need to transform our economies.

We need to take targeted action based on radical choices.

- 1. Do no harm
- 2. Positive impact: finance change
- 3. Change finance



Do no harm: exclusionary criteria & biodiversity



Positive impact case studies

Triodos UK capital raise and business loan









£1.5m – £850k raised from foundations and HNW private investors £20.6m loan – to support the acquisition of two large estates in Scotland

Positive impact case study

Triodos Investment Management – Hivos Triodos Fund





Impact Loan– supports growth to promote use of organic practices for more farmers

Positive impact case study

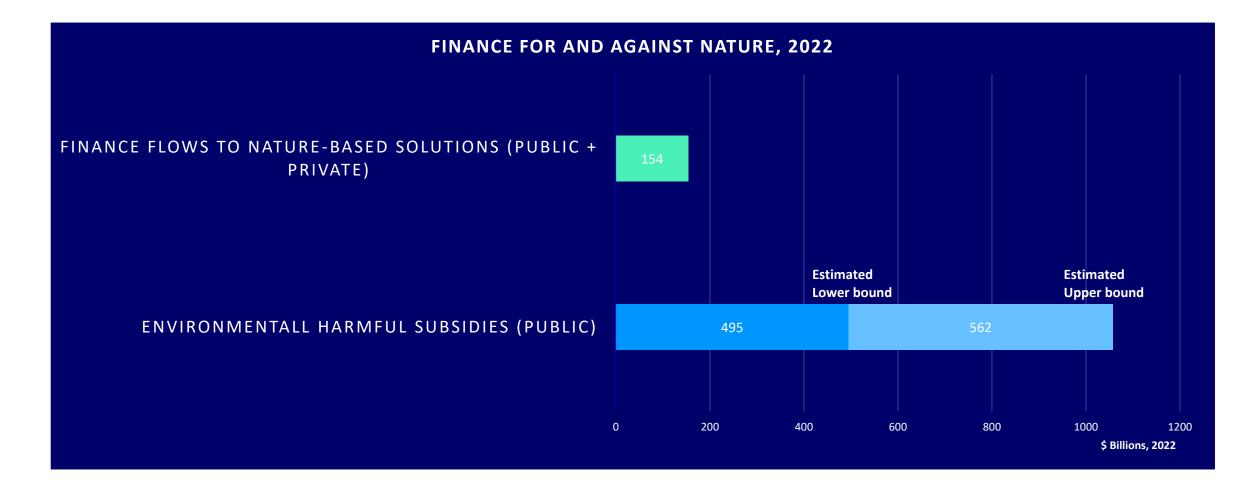
Triodos Regenerative Money Center





Catalytic Loan– early stage financing to enable engineering nature-positive projects.

Triodos & Biodiversity: Change Finance Using our voice



- 1. Business For Nature
- 2. <u>UNEP UN Environment Programme</u>



My three takeaways

- 1. Do not wait for a perfect indicator or data to take action for positive impact.
- 2. Working with partners with local ecological knowledge is key.
- 3. Systems change needed: public and private sector should work together, and act!

Find out more

Beyond risk and return The role of finance in preserving and fostering biodiversity

Triodos@Bank

Triodos Bank white paper

Towards a Regenerative Economy Triodos Bank's vision on transformative impact

C/S

AB

Triodos@Bank Triodos@Investment Management Triodos@Regenerative Money Centre

Website: www.triodos-im.com

Contact Information **Pjotr Tjallema – Impact Researcher** pjotr.tjallema@triodos.com

Explore our 2022 Impact Reports



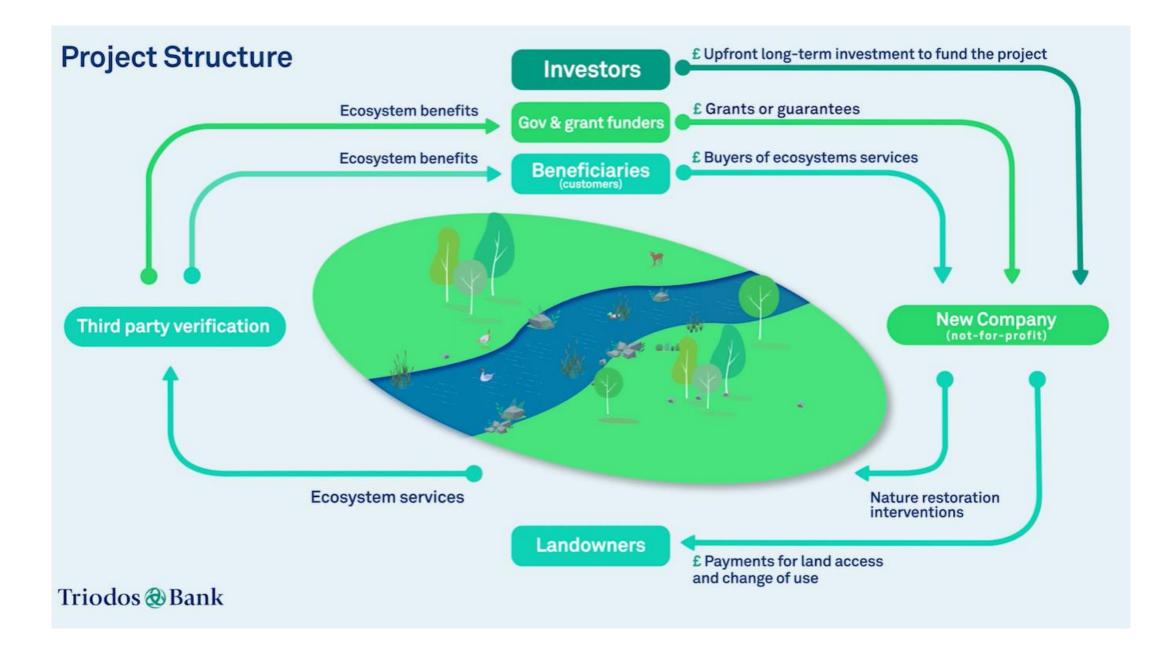
Triodos & Investment Management

Thank you

Nature-based investments

Triodos Bank approach (UK)







Triple Jump Mark Van Doesburgh

Deputy Head Direct Investments

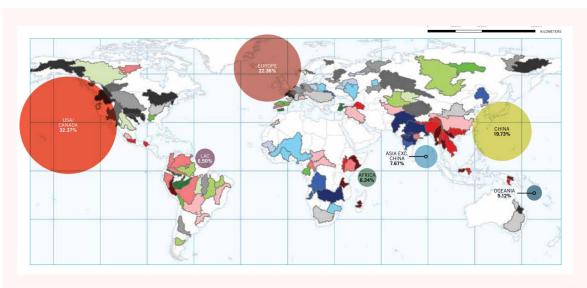


INTRODUCTION TO BIODIVERSITY AT TRIPLE JUMP

April 2023

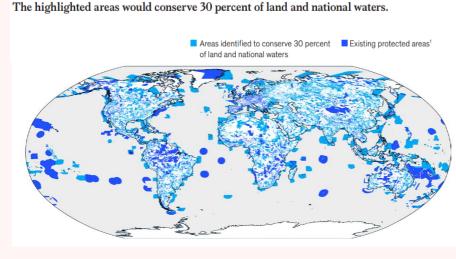
TJ and Biodiversity: Aligned with the company mission

- Investments and non-financial support most needed in developing economies
- Biodiversity is as much of a pressing economic and environmental issue than carbon emissions and climate change
- Nature cannot be preserved without offering alternative livelihoods, i.e. safe local jobs and economic development are intrinsically linked to biodiversity preservation.
 - => SME investing and business support approach



Flows of biodiversity finance (2010)

Sources: Global Canopy Programme (2010), McKinsey & Company (2020)

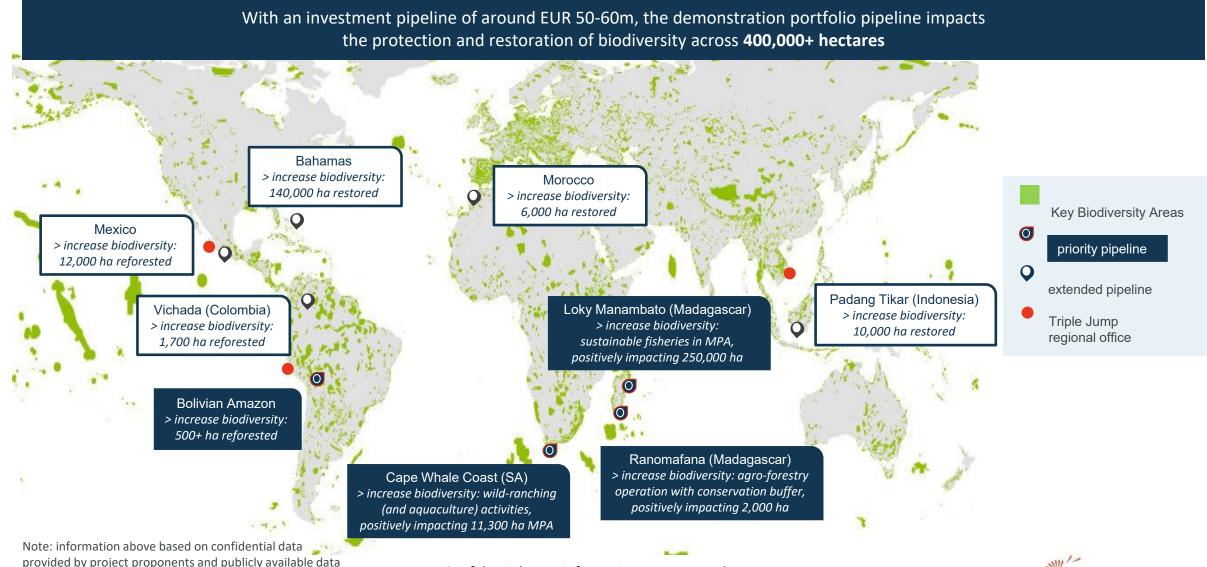


Current vs. additional conservation areas needed (2020)



Confidential - For information purposes only

SMEs in our portfolio would operate in biodiversity-rich areas in emerging markets globally...



Confidential – For information purposes only

Triple

... with an ambition to achieve a net positive biodiversity impact



Biodiversity enhancement and restoration

Reducing / averting negative impacts on biodiversity

Biodiversity conservation through reduction or avoidance of future negative impacts



An investment focus on three high impact sectors next to enabling tech



Wild-Sourced Products and Agroforestry

Wild-sourced products are **natural resources**, most often plants and their parts, collected from the wild, such as berries, nuts and fungi.

Agroforestry is the **practice of combining forestry and agricultural principles** in both traditional and modern natural resource management systems.



Marine Harvest and Freshwater Resources

Marine harvest is the **practice of cultivating and harvesting sea vegetables, shellfish and fish**. These can be processed into an array of products such as food, or fertilizer and biofuel inputs.



Eco-Tourism

Eco-tourism operating in areas of key biodiversity significance have an inherent interest in conservation, as they **offer pristine nature experiences to their guests**. This makes them important local safeguards for natural habitats.

A core focus on small and medium sized companies within these verticals

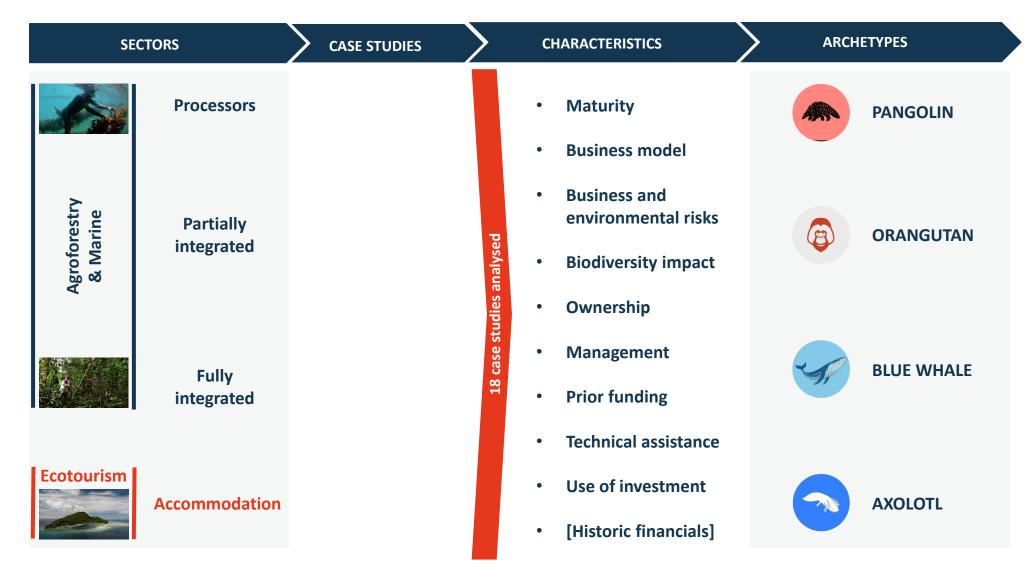
Opportunistic option if desired







From sectors to archetypes: based on existing business cases





Biodiversity fund universe and investable company archetypes

ESTIMATED TARGET INVESTMENT UNIVERSE

Later growth stages Early growth stage (~5 yr) Looking to diversify its offering R Looking to vertically integrate Needs: capex, working capital, human Needs: capex, working capital, human **Core Strategy** capital, certifications Investment capital, certifications ORANGUTAN 7.100 PANGOLIN Universe¹ Structured debt and revolving working Subordinated debt (to support senior capital facilities debt raise) Exit through equity raise / corporate Exit through self-liquidating instrument debt / equity raise 100-150 100-150 companies companies **Available Pipeline²** Established players 1,170 Next-gen companies Looking to improve its biodiversity Developing products to support **Extended Strategy** footprint Investable industry players 360 Needs: debt refinancing, ESMS, AXOLOTL **Pipeline**³ BLUE WHALE Needs: formalization (operations and improvement of operations HR) and impact ToC Senior debt and revolving working Equity and quasi-equity capital facilities Estimates based on databases from certification and trade organisations 1. Exit through self-liquidating senior Series A (in a range of 8-12 months) 150-200 Filtered by preferred business models, company size and impact potential 50-100 2. companies facilities Based on characteristics relevant for the targeted sectors, 2020/21 companies 3.

TARGET COMPANY ARCHETYPES

lities



Net-positive biodiversity investing

Portfolio can be built with a balance of net-positive and biodiversity-improving investments optimized for target returns

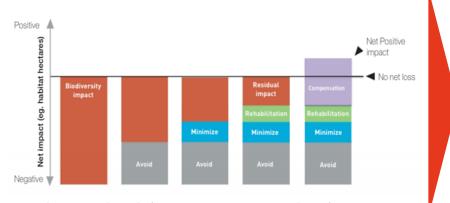


Figure: the mitigation hierarchy (source: IUCN NL, Lanius, D.R. et al., 2013)

- Target to build a portfolio of investments through financing projects whose business models are closely linked to the protection and enhancement of biodiversity
- The team will engage with investees through advice and technical assistance on projects to maximize the alignment of the business model with creating a positive impact on biodiversity
- Investments will be tied to covenants related to biodiversity improving actions and social safeguards

Biodiversity enhancement and restoration



Reducing / averting negative impacts on biodiversity

+

Biodiversity conservation through reduction or avoidance of future negative impacts (e.g. alternative livelihoods)



Built to meet reporting requirements: Impact measurement

	BFFI indicator		
Ecosystems	Species	Alternative livelihood	Environmental pressures
 Maintain: # hectares close to natural status under sustainable cultivation or sustainable stewardship under direct OR indirect control by the project Improve: # hectares under considerably improved cultivation or stewardship. under direct OR indirect control by the project 	 Maintain: # hectares of critical habitat for vulnerable and endangered species under sustainable cultivation or sustainable stewardship under direct OR indirect control by the project Improve: # hectares of critical habitat for vulnerable and endangered species under considerably improved cultivation or stewardship. under direct OR under direct OR 	 # direct "green" jobs supported by the project (FTEs) # indirect "green" jobs supported by the project (e.g. including number of producers supplying the project. 	 Emissions (-> climate change, acidification, eutrophication,) Resource use Land use/land transformation Water stress



EXAMPLE DEALBOOK

	Archetype	Vertical	Product	Geography	Description	Proposed instruments	Investment use
- 3,		Wild harvest & Agroforestry	Brazil nuts	Bolivia	One of the world's leading producers of Brazil nuts with its production facilities for processing in Bolivia	Senior debt	Support the expansion of brazil nut production to include 5-8 additional farmer communities
		Wild harvest & Agroforestry	Quinine	Madagascar	Operating in a biodiversity hotspot, it grows Cinchona trees, from which quinine is extracted and used in tonic water and other drinks	Mezzanine	Vertical integration via construction of a processing plant and expansion of the purification plant
		Marine harvest & freshwater resources	Octopus	Madagascar	A cooperative looking to develop its octopus value chain in partnership with local fishermen, fishing sustainably with traceability	Mezzanine	Construction of processing facilities, related infrastructure, acquisition of equipment and certification of products
		Wild harvest & Agroforestry	Cardamom Peru balsam Styrax Patchouli	Guatemala El Salvador Honduras	Develops natural ingredients for fragrance, flavours and aromatherapy industries. The company puts an emphasis on sustainability of its operations	Senior debt Working capital	Working capital needed to fund harvesters, in particular for spice
		Wild harvest & Agroforestry	Cacao	Central America	A Central American food producer with food, snacks, fats and oil divisions. It has agricultural operations in Guatemala, Nicaragua, El Salvador, Costa Rica, and the Dominican Republic	Senior debt	Repurpose 1,000ha to sustainable cocoa production combined with growing precious wood
-3,		Marine harvest & freshwater resources	Abalone	South Africa	Cultivates Abalone, one of the world's most desirable seafood. The Atlantic Ocean provides the nutrients and environment for its production	Senior debt	Expansion to wild ranching and transition to low-carbon energy production



Confidential – For information purposes only

Investing for Climate & Nature

How To Get Involved

Mark van Doesburgh Deputy Head Direct Investments @ mvdoesburgh@triplejump.eu Lisa van Splunteren Manager Investor Relations @ Ivansplunteren@triplejump.eu



This document has been prepared by Triple Jump B.V. ("Triple Jump"). Triple Jump (trade register number: 34248256) is registered with, and supervised by, the Netherlands Authority for the Financial Markets in Amsterdam, the Netherlands.

The information contained in this Presentation must be kept strictly confidential and may not be reproduced (in whole or in part) or redistributed in any format without the express written approval of Triple Jump. This confidential presentation (the "Presentation") is furnished on a confidential basis to a limited number of prospective sophisticated investors at their request, for informational purposes only and is not, and may not be relied on in any manner as, legal, tax, investment, accounting or other advice or as an offer to sell or a solicitation of an offer to buy an interest in any product managed or advised by Triple Jump.

Prospective investors should make their own investigations and evaluations of the information contained in this Presentation. Each prospective investor should consult its own attorney, business advisor and tax advisor as to legal, business, tax and related matters concerning the information contained in this Presentation and such offering and in order to make an independent determination of the suitability and consequences of potential investment in any product managed or advised by Triple Jump.

Certain information contained in this Presentation has been obtained from published and non-published sources prepared by other parties, which in certain cases have not been updated through the date hereof. While such information is believed to be reliable for the purpose used in this Presentation, Triple Jump does not assume any responsibility for the accuracy or the completeness of such information, and such information has not been independently verified by Triple Jump. Except where otherwise indicated herein, the information provided in this Presentation is based on matters as they exist as of the date of preparation and not as of any future date, and will not be updated or otherwise revised to reflect information that subsequently becomes available after the date hereof.

Any information relating to performance is for historical information only. The value of investments may fluctuate. Past performance is no guarantee of future results. There can be no assurance that any investment's objective can be achieved or that an investor will receive any return on its investments. An investment should only be considered by persons who can afford a loss of their entire investment.

No rights whatsoever are licensed or assigned or shall otherwise pass to persons accessing this information.



ASN Impact Investors Karin van Dijk

Fund Manager



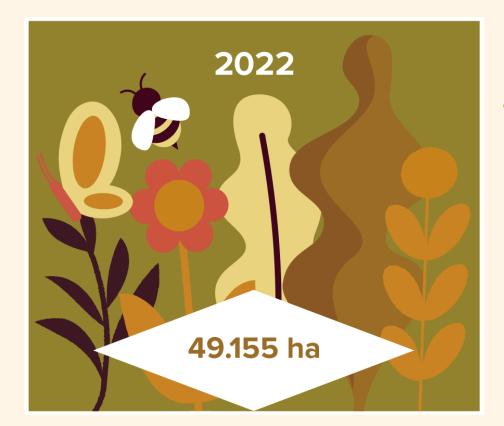
Investing in Biodiversity Enriching the world

25 mei 2023

Karin van Dijk, Fund manager ASN Biodiversiteitsfonds



Biodiversity footprint listed equity 2022

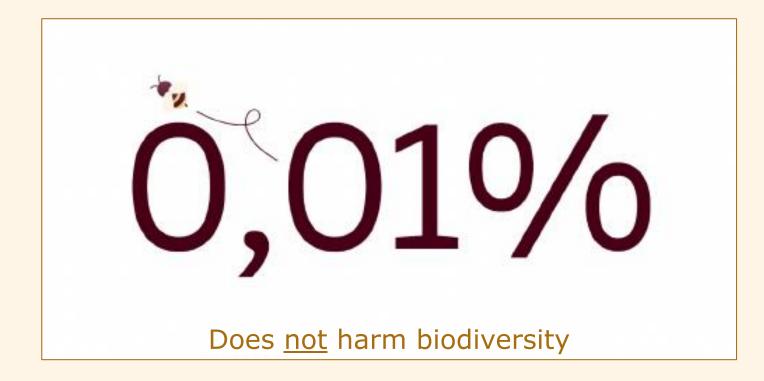


Target 2030: A net positive impact on biodiversity with all our investments

Number of hectares of biodiversity loss per year



There are more than 43,000 listed companies worldwide





Diversification across impact sectors



Sustainable Forestry



Regenerative agriculture, AgroForestry



Sustainable Oceans

Eco tourism

Focus on impact sectors instead of asset classes



Growing coffee in the forest







Benefits

Capture of CO2

Less use of fertilizers

Prevent soil erosion

Future proof for climate change

Less vulnerable to diseases and pests

Re-use of water

Less water waste

More resistant to drought

Efficient water use





FINANCIAL

•

SOCIAL IMPACT

Dividend return

Blended finance structure

- De-risking mechanism
- 430.000 ha under management
- 8,8 million ton CO2
- 4,5 million cubic meters of irrigation water saved

• 452.000 jobs

• Education and support for farmers in the transition to sustainable agroforestry

SLM Silva Europe Fund

FINANCIAL

IMPACT

SOCIAL

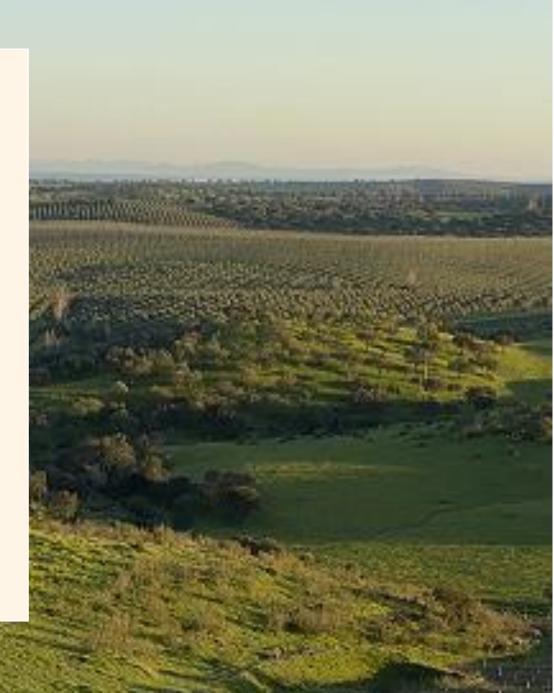




- Benefits from premium prices
 for sustainable products
- No impact from inflation on fertilizers and pesticides
- Good returns on products

• 450.000 ha of forest and farmland

- Prevent waste and pollution
 of water
 - Soil recovery
- Invests in farmers who are making the transition
- Education & research



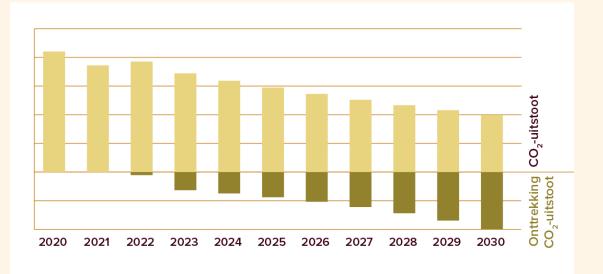


First impact results

- 23.000 ton CO2 sequestered
- 3% of AII total CO2-emissions (scope 1, 2en 3)

End Q2:

 First impact report ASN Biodiversity Fund





Worldwide diversification: 6 regions and 38 countries

Win – Win – Win Biodiversity – Investor – Local communities

Per 30-04-2023



This presentation has been prepared by ASN Beleggingsinstellingen Beheer B.V. ("ABB"). ABB is the manager of the investment companies with variable capital ASN Beleggingsfondsen AIF N.V. and ASN Beleggingsfondsen UCITS N.V. and their sub-funds and as such holds a license as manager of alternative investment funds (AIFs) and undertakings for collective investment in transferable securities (UCITS) as referred to in Section 2:65 and Section 2:69b of the Dutch Act on Financial Markets Supervision (Wft).

ASN Beleggingsfondsen AIF N.V. and ASN Beleggingsfondsen UCITS N.V. and their sub-funds ("Fund(s)") and ABB are registered in the register of the Netherlands Authority for the Financial Markets.

This presentation is for informational purposes only and should not be construed as an offer to buy, sell or trade financial instruments or units in AIFs or UCITS, nor does it constitute an invitation to make such an offer. The information in this presentation should not be construed as investment recommendation or investment advice. ABB requests that investors seek advice from their own independent advisers before proceeding with a transaction and, moreover, to inform themselves or to have themselves informed of tax, legal or other (local) rules and restrictions and to comply with them.

No part of this presentation may be used without prior permission from ABB. The information in this presentation is not intended to be distributed or used by persons in a country, including the United States, where the Funds are not registered for offering to investors or in which the distribution or use of information about the funds is otherwise is not permitted under local law.

Historical returns are provided for illustrative purposes only. The value of investments can fluctuate. Past performance offers no guarantee of future results.

Although the content of this presentation has been compiled with the greatest care and is based on reliable sources of information, no express or implied warranty or representation is made as to the accuracy or completeness of the information. No rights can be derived from this presentation. ABB is not liable for damage of any kind that is the result of incorrect or incomplete data.

For detailed information about the Funds, the Key Investor Information Document (EBi) and prospectus are available, with more information about the fund, costs and risks. Don't take unnecessary risks. Please read the prospectus and the Key Investor Information Document before investing. The prospectus and the Key Investor Information Document are available at www.asnbeleggingsfondsen.nl.









Thank you for attending this event!

Next Breakfast Inspiration Session: Focus on Water with Invest International, PGGM, Climate Fund Managers and Impact Institute On 13 June, at 8 a.m.

Please scan the QR code to fill the Evaluation Form

