Nature Finance Conference 2023
Singapore

Wednesday, 29 November

Co-organised By

SMU Singapore Management University | Sim Kee Boon Institute for Financial Economics

Singapore Green Finance Centre

Generously Supported By

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IMPACT INSTITUTE

Biodiversity Finance and Data Innovations

Hi, we are

Henry van Kouswijk
Head of Sales technology

Responsible for exploring relationships to build an impact economy

Rogier Schutte
Head of Product Technology

Responsible for building our impact technology in-house

Impact Institute

We believe one of the greatest opportunities of the 21st century is the realization of the impact economy: an economy in which work, entrepreneurship, innovation and technology engender a better world.

Accelerate Impact measurement

In the nature finance context

International initiatives on Impact

SINGAPORE MANAGEMENT UNIVERSITY

HARVARD BUSINESS SCHOOL Impact-Weighted Accounts

ERASMUS UNIVERSITEIT ROTTERDAM

IMPACT INSTITUTE

Collaborations within sustainable finance with Impact Institute

TNFD

PBAF

Finance for Biodiversity Pledge

UNEP FINANCE INITIATIVE | PRINCIPLES FOR RESPONSIBLE BANKING

NATURAL CAPITAL COALITION

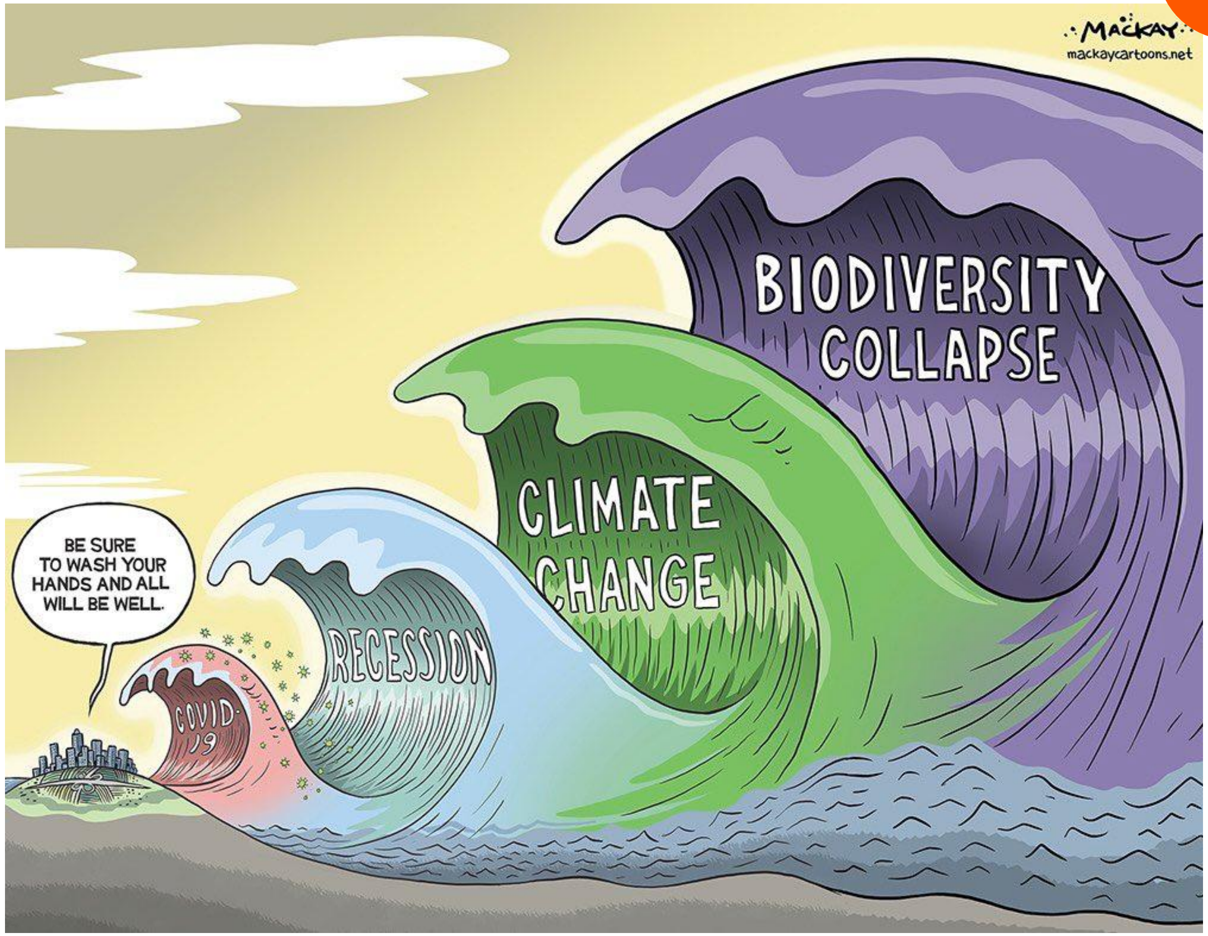
Banking For Impact

International initiatives on Impact

to create a common language for impact through the publication of open source standards.

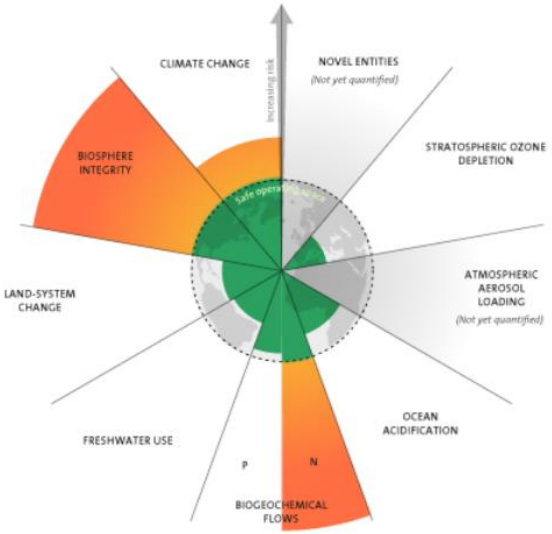
BIODIVERSITY CONTEXT

Why does biodiversity matter?



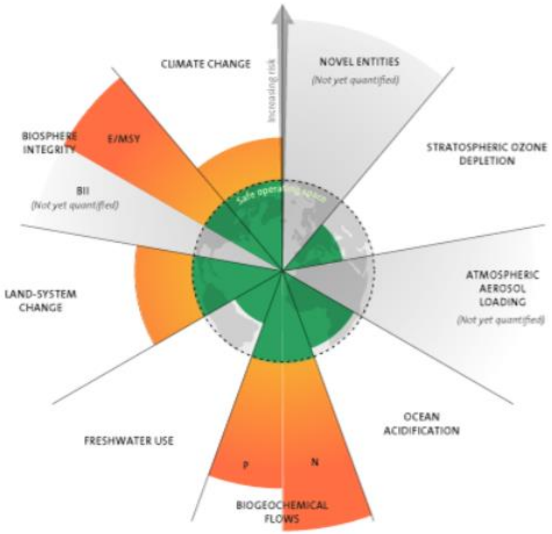
Why does biodiversity matter?

2009



3 boundaries crossed

2015



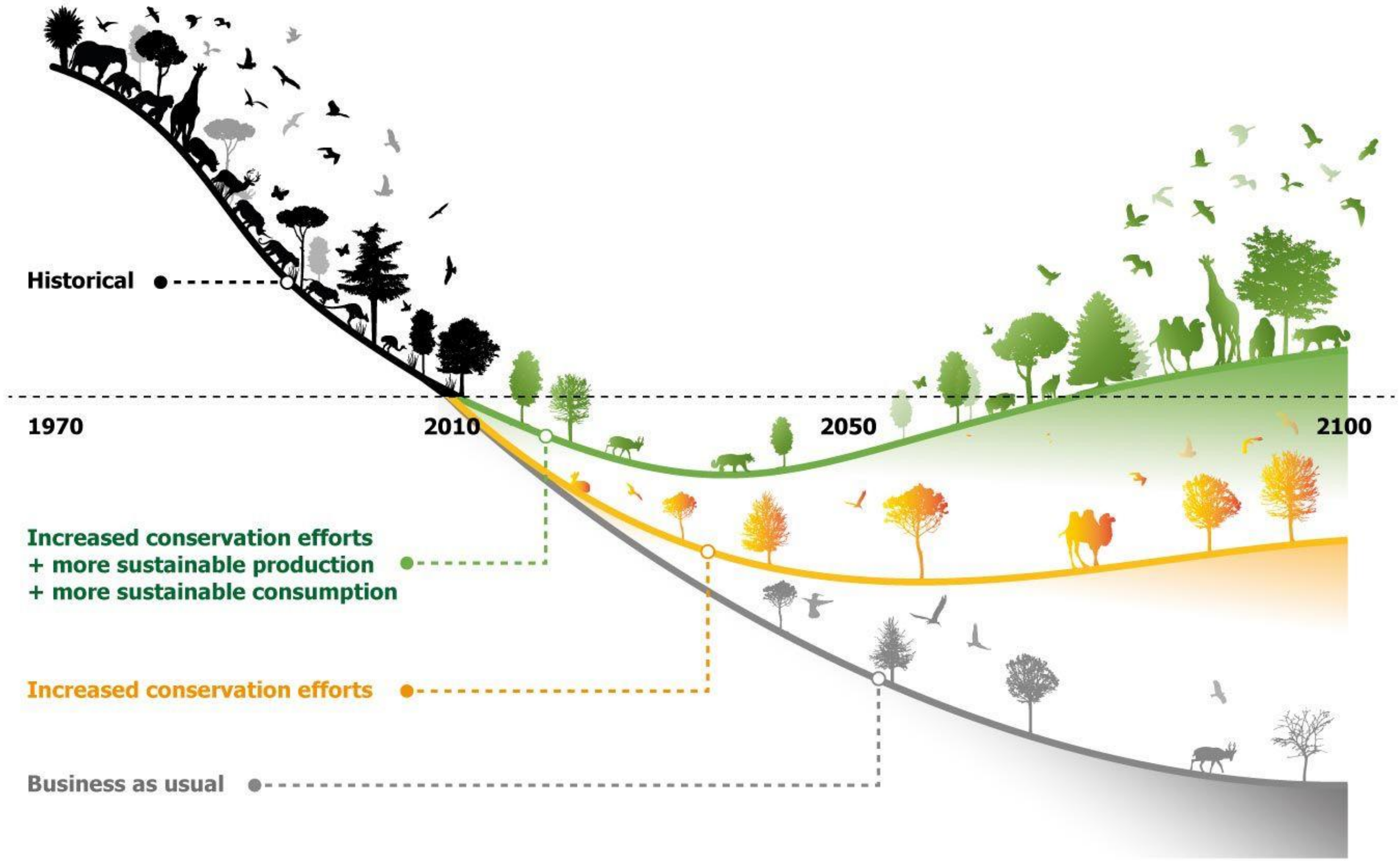
4 boundaries crossed

2023

6 boundaries crossed

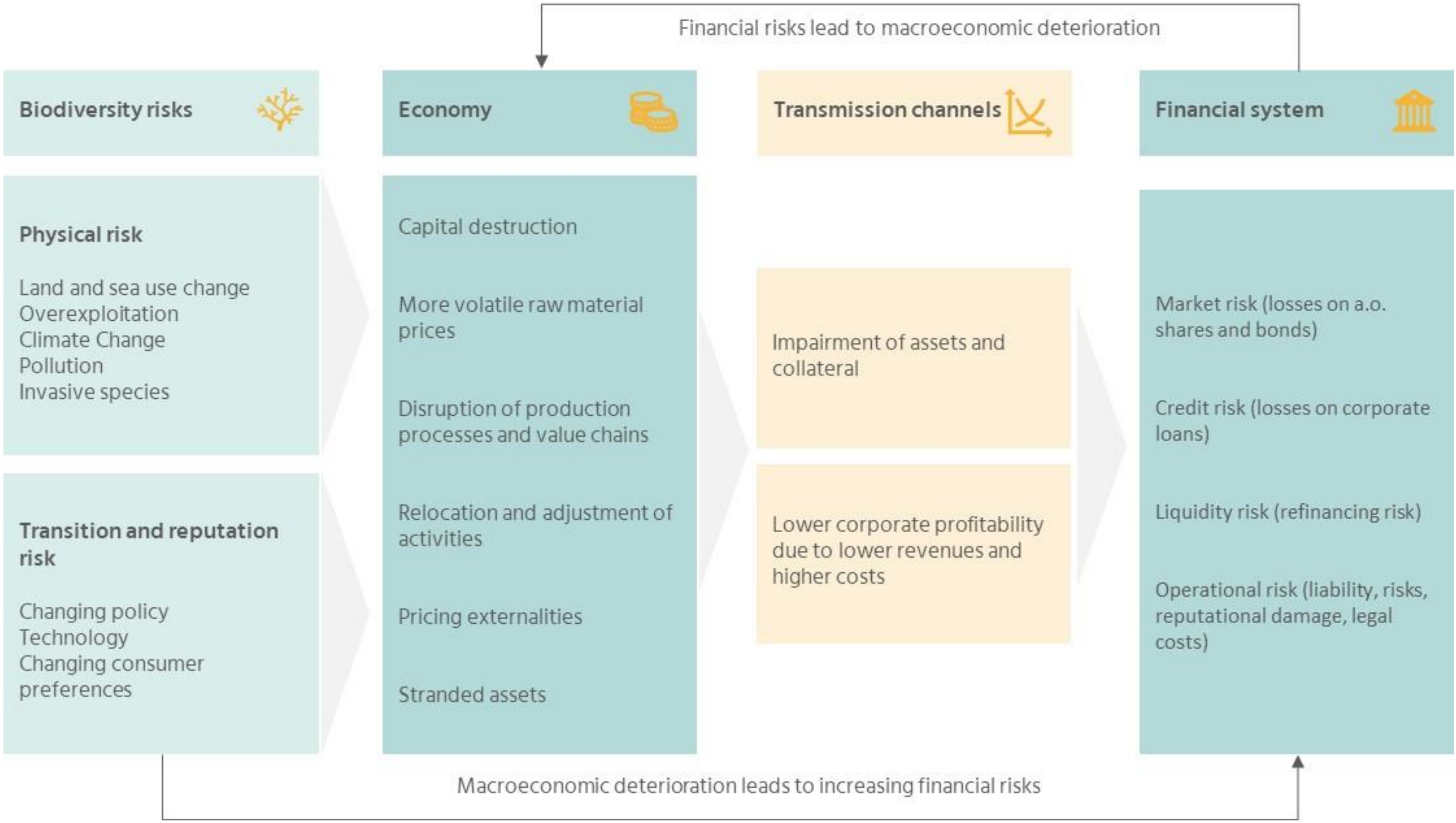
Source: Stockholm resilience center

Why does biodiversity matter?



This artwork illustrates the main findings of the article, but does not intend to accurately represent its results (https://doi.org/10.1038/s41586-020-2705-y)

Pivotal role of financial sector



Our societies, our well-being, and the world economy rely on natural capital and are intrinsically linked to biodiversity

Barriers to call for action

Awareness

Lack of awareness of a company's own impact exposure;

Nascency

Nascency of biodiversity as a corporate issue;

Value

Difficulty to communicate value of biodiversity;

Result

Financing Gaps

Current financing is 15% of required flows by 2030*

Source: Paulson institute

HOW TECHNOLOGY & DATA INNOVATIONS HELPS YOU TO ACCELERATE

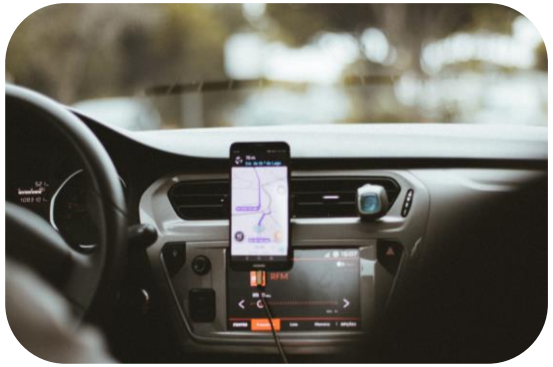
INNOVATING IN THE IMPACT MANAGEMENT WORLD

1. Promises of Software Technology
2. Trends in Impact Technology
3. Advantages for Biodiversity Impact Management

1. Promise of Software

Scalability

Open / Crowd sourcing



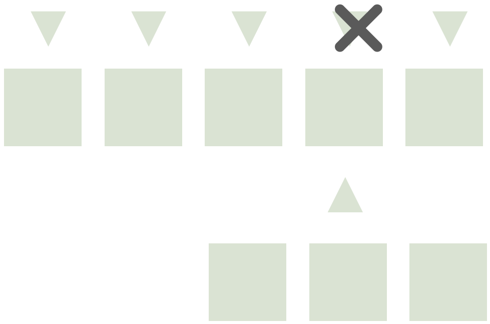
Democratising industries

2. Trends in impact tech

Growing data-sets

Adding more and more data sets means more granularity and accuracy.

Hybridisation



Combining both top-down and bottom-up calculation methods into one model.

Self-servicing

Democratising. Not only impact experts but also business experts can start managing impact.

3. Advantages

Easier to start managing impact

Continuous impact informed decisions

Radical transparency

3. Advantages

Technology advantages:

Easier to start managing impact

Continuous impact informed decisions

Radical transparency

Barriers:

Awareness

Lack of awareness of a company's own impact exposure;

Nascency

Nascency of biodiversity as a corporate issue;

Value

Difficulty to communicate value of biodiversity;

IDENTIFY YOUR MATERIAL BIODIVERSITY IMPACTS

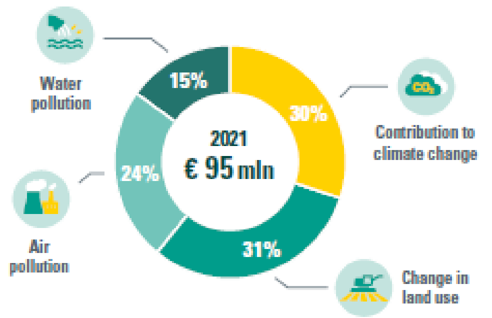
Where to start

- **Top-down insights** into the most material biodiversity impacts throughout your investments.
- **Efficient and quick scan** that identifies impact hotspots associated with portfolios.
- Provides focus points for **fund and client-level analysis** as a first step towards target setting and steering on impact.

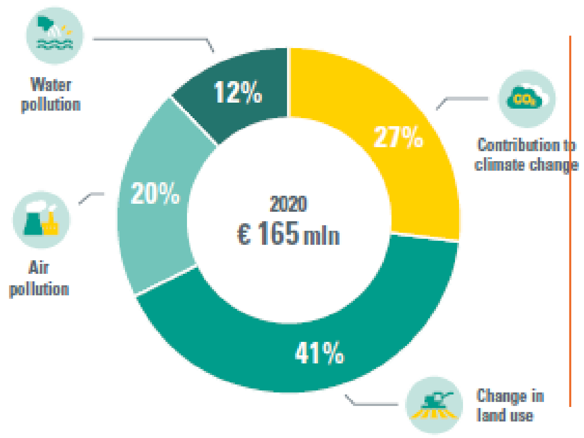
Source: ABN AMRO's impact on biodiversity -2022

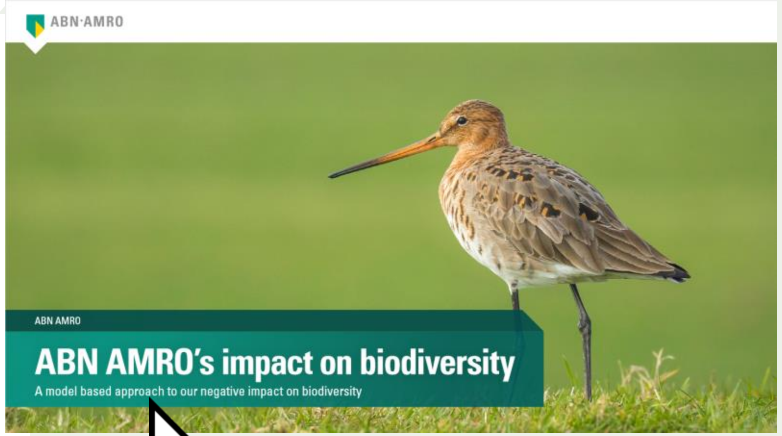
CASE ABN AMRO

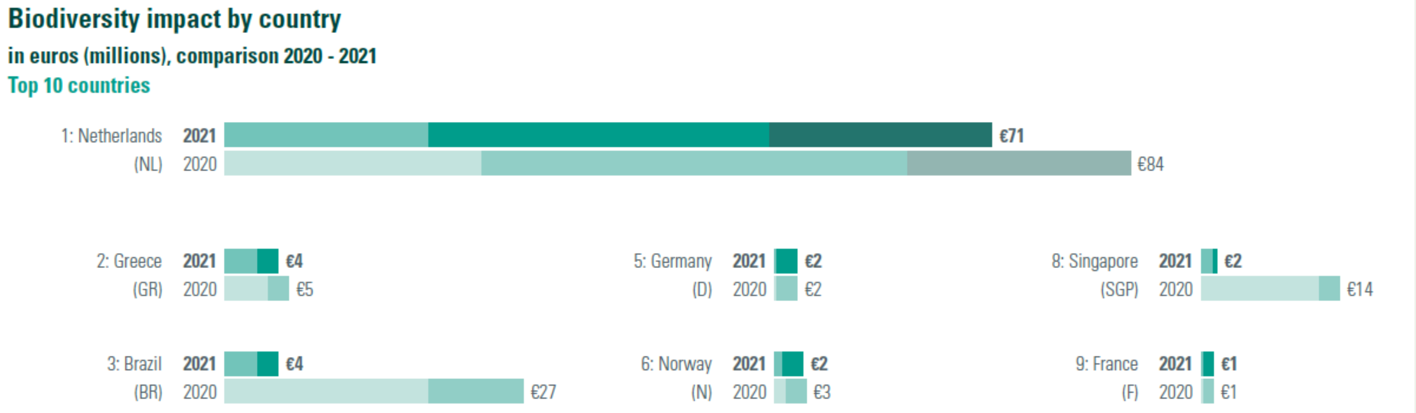
ABN AMRO 2021 and 2020 impact on biodiversity loss: main drivers (%)

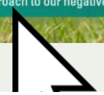


Improvement of
€ 70 million









Source: ABN AMRO's impact on biodiversity -2022

Projects > EV Delivery Startup

Exit project

1. Settings | 2. Data input | 3. Results

EV Delivery Startup

DOWNLOAD TO EXCEL | START CALCULATION

GreenTech Logistics — Year: 2022

Data point	Data type	Applicable to	(x) Value	Unit	Indicator
Acidification per EV produced	Primary data	Organisation's own activity	46.62	kg SO2-eq/#	Acidification
Acidification per EV produced	Primary data	Reference scenario	0	kg SO2-eq/#	Acidification
Acidification per ICEV produced	Primary data	Organisation's own activity	24.49	kg SO2-eq/#	Acidification
Acidification per ICEV produced	Primary data	Reference scenario	24.49	kg SO2-eq/#	Acidification
Diesel CO2eq factor	Secondary data	Both	3.29	KGCO2EQ/L	GHG emitted
Electricity consumed during year for use of electric vehicle	Primary data	Organisation's own activity	100000	KWH	GHG emitted
Electricity consumed during year for use of electric vehicle	Primary data	Reference scenario	33473	KWH	GHG emitted
Electricity mix CO2eq factor in country	Secondary data	Both	0.49	KGCO2EQ/KWH	GHG emitted GHG emitted
Electricity use in kwh for EV production	Secondary data	Both	278	kwh/#	Fossil fuel depletion
Electricity use in kwh for ICEV production	Secondary data	Both	321	kwh/#	Fossil fuel depletion
Electricy use in production of electric vehicles	Primary data	Organisation's own activity	278	KWH/#	GHG emitted
Electricy use in production of electric vehicles	Primary data	Organisation's own activity	321	KWH/#	GHG emitted
	Primary data	Organisation's own activity	33473	kwh	Fossil fuel depletion

cttool.org/projects/cloe1fgxv0087l508ap1b6lmb/data

KEY TAKE-AWAYS

1. **Doing nothing is not an option! Starting could be easy.**

2. **Innovations help on the journey of biodiversity impact management**

3. **Technology democratises impact measurement**

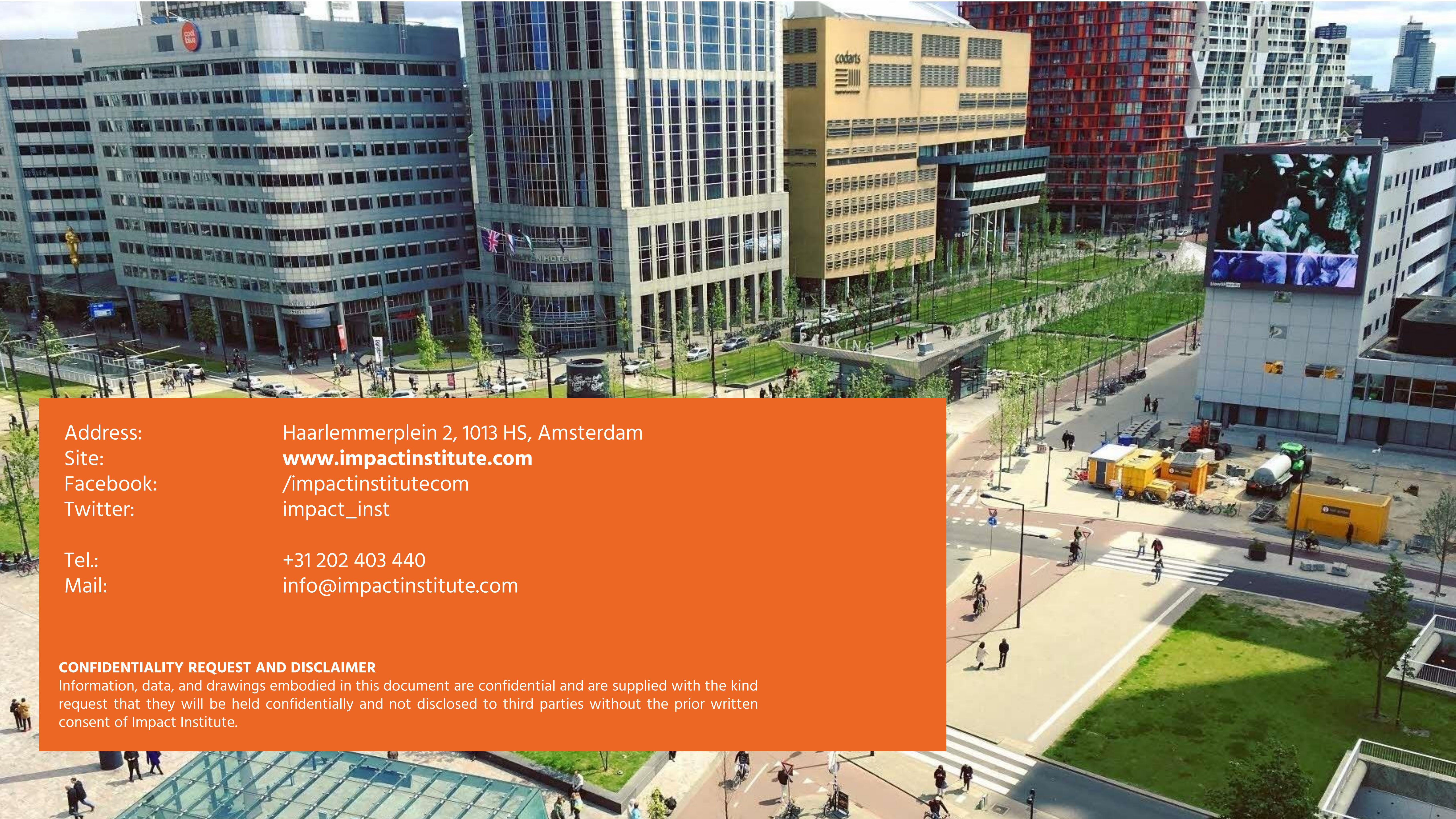
WANT TO KNOW MORE?

Let’s meet or connect

Henry van Kouswijk

Rogier Schutte

www.impactinstitute.com



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