

Biodiversity and business decarbonization

How companies can contribute

18th March 2021 Ivan Paspaldzhiev & Constantin Saleta







10-DAY CHALLENGE

11-24 March 2021

Events and activities for naturally-smarter businesses





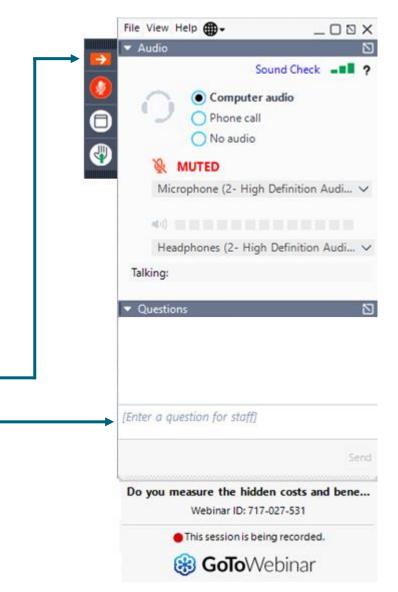
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- 3. You can enter your question in the chat interface.



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Supporting





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 821303 wevaluenature.eu info@wevaluenature.eu @WeValueNature





In this session we will discuss

WHY business should care about climate & biodiversity

WHAT is coming in terms of new reporting initiatives

HOW companies can start preparing





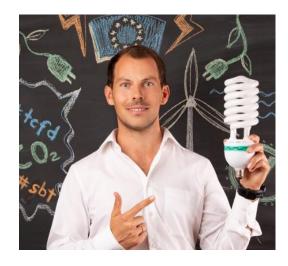
Today's speakers



Ivan Paspaldzhiev (denkstatt)

Senior Consultant

International Service Leader Natural & Social Capital



Constantin Saleta (denkstatt)

Senior Consultant

International Service Leader Decarbonization



denkstatt in one picture



Our Topics

EHS management

Decarbonisation

Ressource management

Sustainability management

Smart Urban Management

IT-Solutions

Sustainable finance



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Energy & Infrastructure

Chemicals

Automotive

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^{*} sustainable AG, based in Germany, is partner of denkstatt.



We are business advisors in environmental and sustainability affairs.

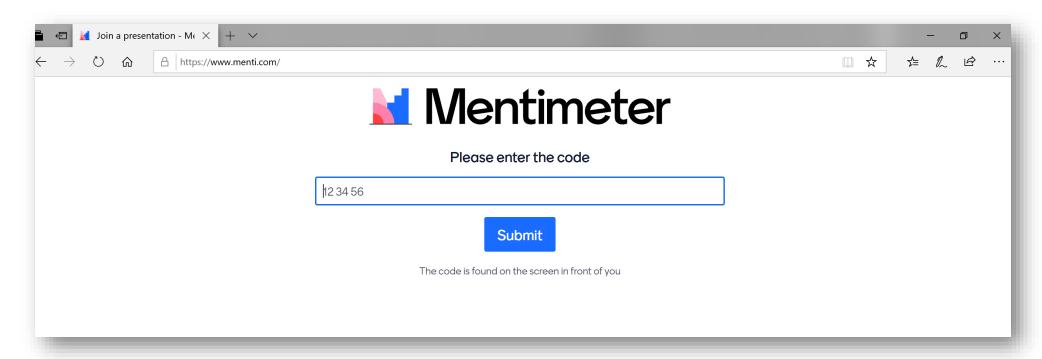
From strategy right through to implementation.



Before we start - some Mentis!

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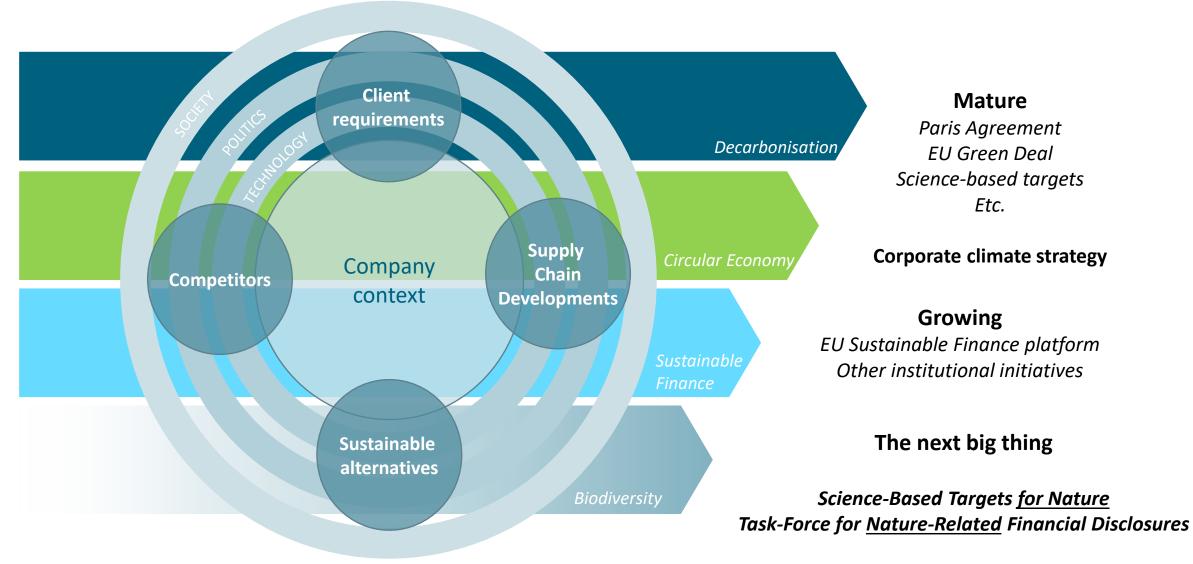




Climate – an established issue



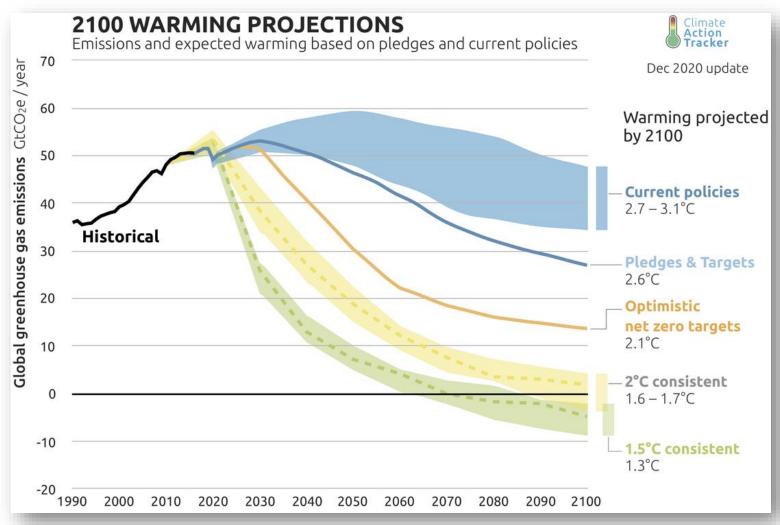
Trends in corporate sustainability

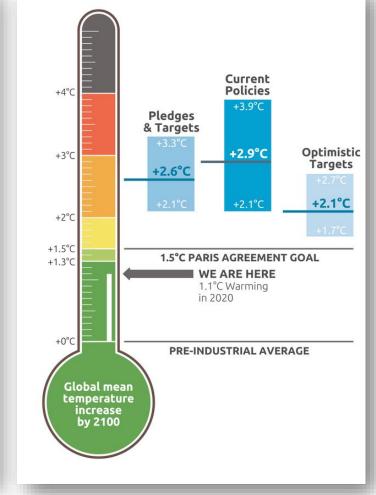


Mainstreaming biodiversity strategy



Climate – an established issue





Source: https://climateactiontracker.org/global/temperatures/



Elements of climate management From footprinting to engagement









Foundation



Scenarios, risks and chances

Framework for voluntary, consistent climate-related financial risk disclosure; focus on assessing, steering and mitigating climate risks and opportunities.

Climate strategy incl. targets

Corporate target setting and target validation framework; provides method for future-proof climate pathways.

Disclosure

Corporate accountability and tracking of progress in the transition towards net-zero business models (e.g. disclosure, scoring, ACT, etc.); disclosure towards investors.



Where to start?

Establish a baseline → Carbon inventory





The GHG Protocol – International Standard for Greenhouse gas accounting

- GHG Protocol establishes comprehensive global standardized frameworks to measure and manage greenhouse gas (GHG) emissions
- Established >20 years ago by World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD)
- Supplies the world's most widely used greenhouse gas accounting standards



Where to start?

Overview of scopes 1 - 2 - 3

Significance of value chain emissions (Scope 3)





How to implement? Standards and approaches

Science Based Targets Initiative (SBTi)

What are science based targets?

- Science-based GHG reduction targets for companies that are in line with decarbonization levels needed to limit global warming to well below 2°C or 1.5°C
- Internationally recognized framework for setting corporate climate protection targets



1259

Companies have formally committed to set SBTs



Companies have approved targets

An initiative by











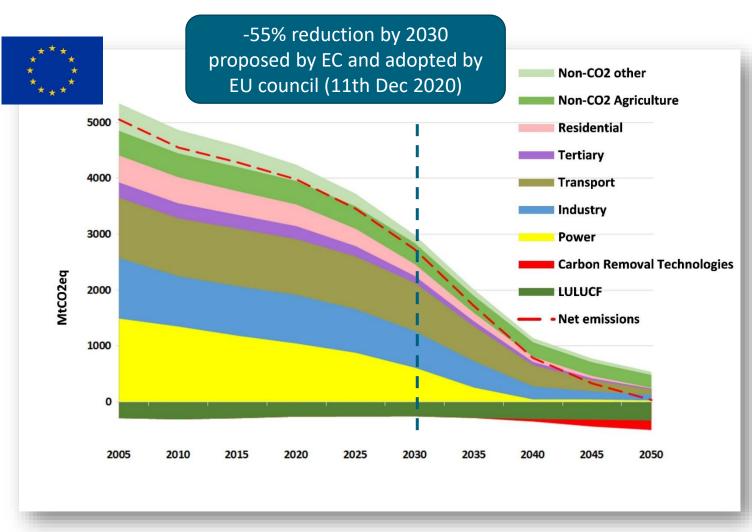




Net-zero as new guiding star

EU Net-zero until 2050

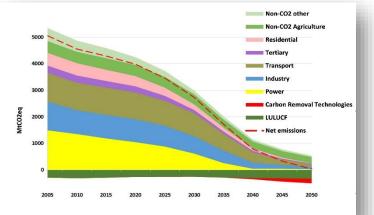




A climate-neutral economy What does that mean?







DRIVING AMBITIOUS CORPORATE CLI

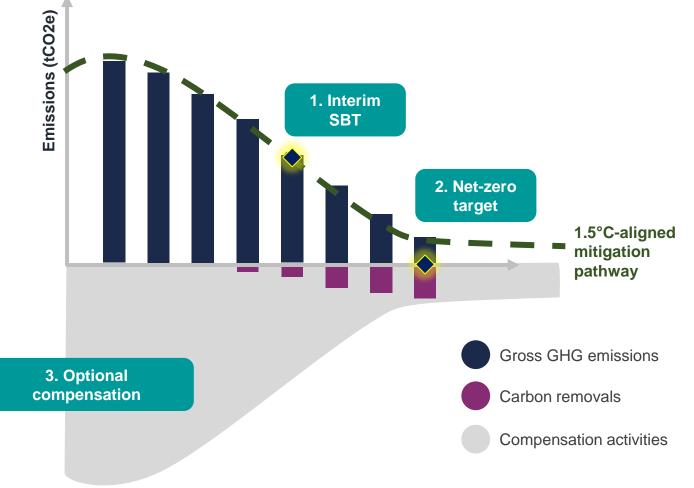


Definition net zero for business

- Achieving climate neutrality for a company means net zero emissions (all GHG!) within a company's value chain.
- This is achieved by reducing the GHG emissions in the value chain in line with 1.5°C reduction paths and offsetting the remaining, unavoidable GHG emissions.



Science based targets & net zero Role of Mitigation vs. Compensation





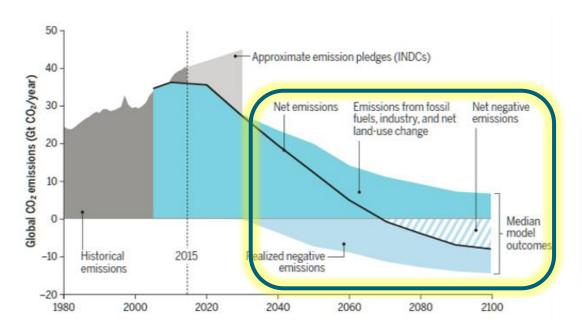
Elements of a climate strategy (acc. to SBTi)

- 1. Interim science-based targets: companies shall have interim SBTs that meet specific leadership criteria (e.g., target ambition and boundary)
- 2. Net-zero target: targets shall include deep decarbonisation of value chain emissions paired and carbon removals that neutralise all unabated emissions
- 3. Optional compensation: companies are encouraged to compensate for unabated emissions by providing annual support to projects, programs, and solutions that provide quantifiable benefits to climate, people, and nature



Carbon Dioxide Removal (CDR) & its role in corporate offsetting strategies

- The Paris Agreement requires balance of greenhouse gas emissions and removals by 2050 (i.e. "net-zero emissions").
- Carbon dioxide removal ("CDR") will be needed
- All CDR approaches have scale limitations and environmental impacts









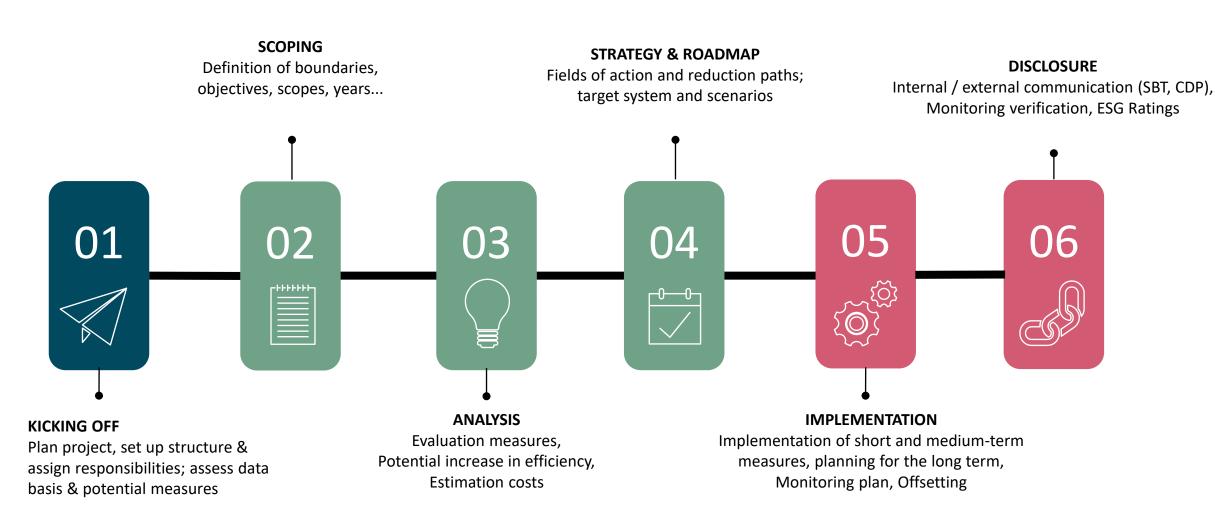
In no modelled pathway can the Paris goals be achieved without rapid emissions reductions. It should thus be stressed that CDR is not an alternative to emissions reduction, and in fact can only play a minority role in mitigation.

What can companies do?

- Only unavoidable emissions should be offset by CDR – focus on mitigation!
- Disclose share of CDR anticipated to be used to fulfil climate commitments (esp. net-zero)
- Insetting engaging & compensating in your value chain



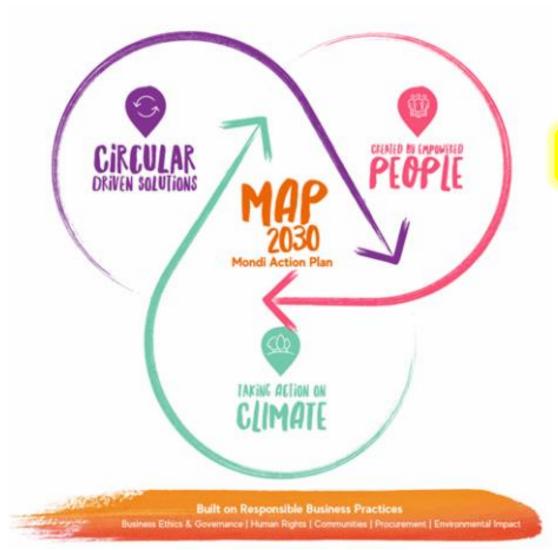
Decarbonization process: overview





Current practice: Mondi Group





Commitments **Targets** o Reduce our Scope 1 and 2 emissions by 34% per tonne of saleable production by 2025 and 72% by 2050 from a 2014 base year Reduce our greenhouse gas emissions in line o Reduce Scope 2 GHG emissions by 39% per MWh by 2025 and with science-based targets by 86% by 2050 from a 2014 base year A science-based Scope 3 reduction target set by 2025 Maintain 100% FSC certification in our wn forest landholdings 100% responsibly sourced fibre with 75% certified FSC / PEFC fibre Maintain zero deforestation in our wood supply, sourcing from healthy procured by 2025 and the remainder being controlled wood and resilient forests Implement leading forestry measures to ensure productive, healthy and resilient forests Conduct water stewardship assessments at our mills and forest operations by Safeguard biodiversity and water resources in 2025, and implement required actions to address the findings by 2030 our operations and beyond Conduct biodiversity assessments a our mills and forest operations. introducing biodiversity action plans where necessary by 2025



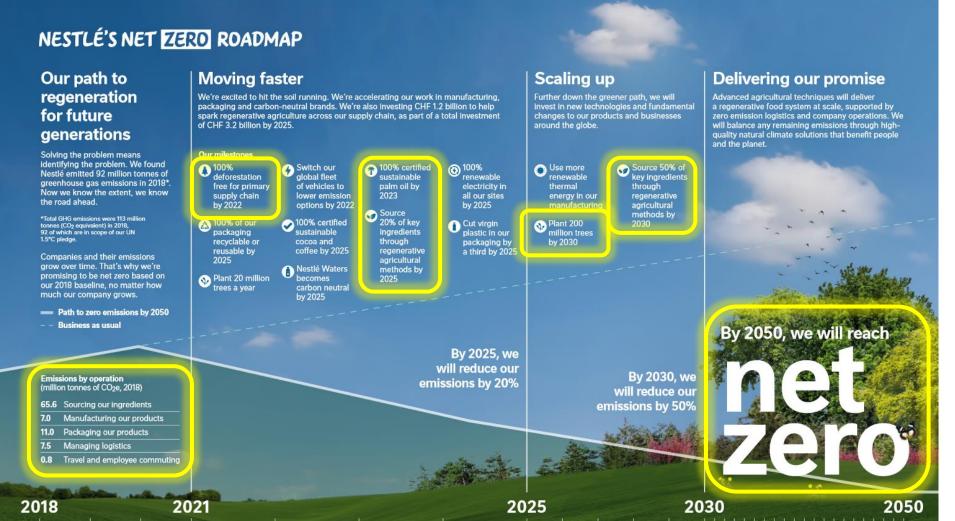


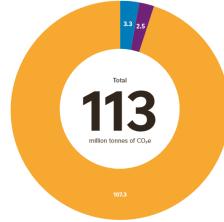




Current practice: Nestlé

Good Food, Good Life





Scope 1

Emitted directly

3.3 3.0% from sources we own or control such as on-site combustion (coal, natural gas, fuel for company's vehicle fleet).

Scope 2

Emitted indirectly

2.5 2.2% from the generation of purchased energy like electricity and heating/ cooling network.

Scope 3

All other indirect emissions

in our value chain, both upstream and downstream, such as sourcing and use of sold products.

107.3 94.8%



Biodiversity – the next big thing

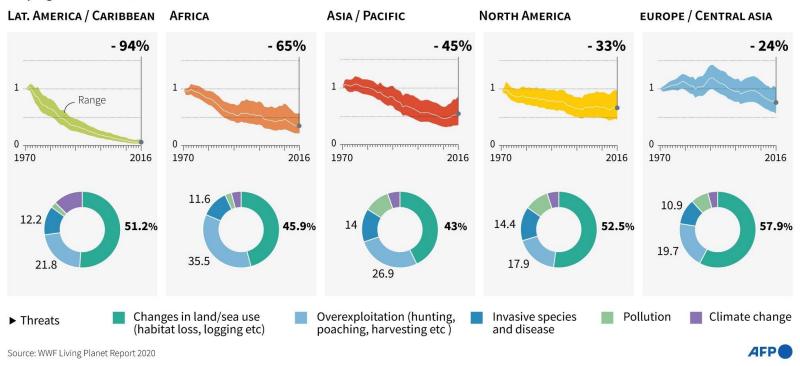


As if we didn't have enough things to worry about...

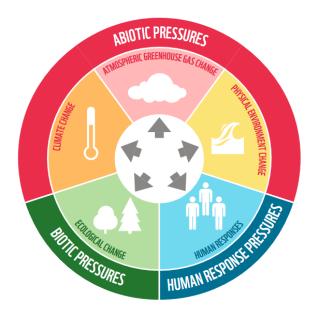
Declining state of biodiversity

Average change in the size of monitored vertebrate species populations in the Living Planet Index, 1970-2016

► By region Index value (1970 = 1)



Climate change-driven pressures on biodiversity



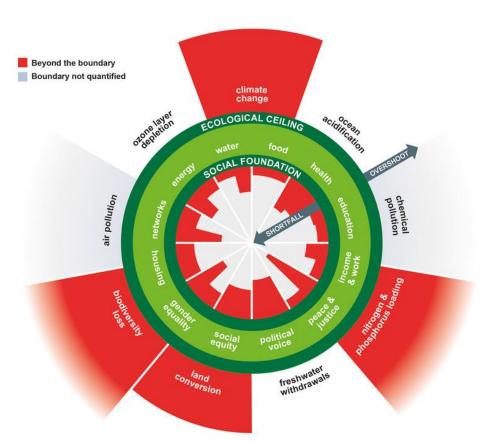
Source: WWF Living Planet Report 2020



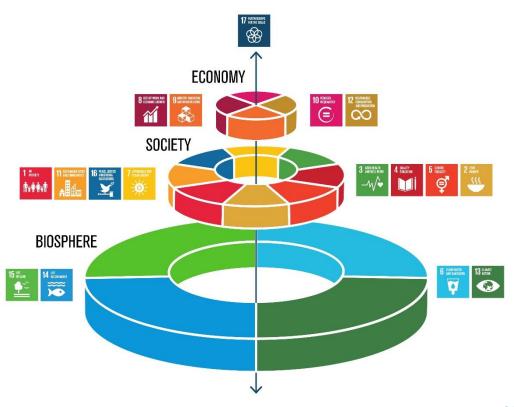
Putting things in context

Sustainability really likes food metaphors:)

"Doughnut economics"

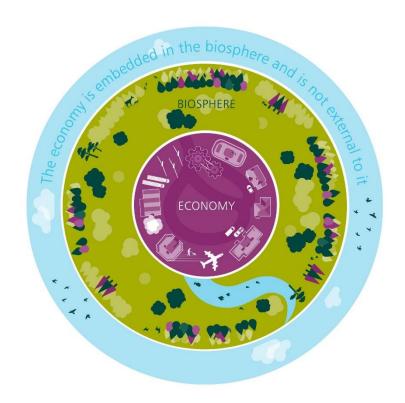


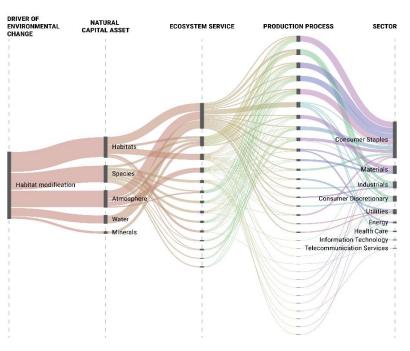
"SDG wedding cake"

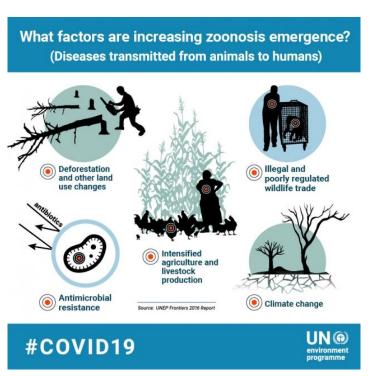




Why should you care?







Biodiversity underpins the economy

The links between the economy and biodiversity loss are complex

Look no further than COVID-19

Source: Dasgupta Review Source: We Value Nature



Why should you care?

Biodiversity is gaining ground on the policy agenda





PREPARATIONS FOR THE POST-2020 BIODIVERSITY FRAMEWORK

UPDATE OF THE ZERO DRAFT OF THE POST-2020 GLOBAL BIODIVERSITY FRAMEWORK



Global governments to adopt... **2050 biodiversity vision**

2050 biodiversity goals

2030 biodiversity milestones & actions

End-May 2021!



Science-Based Targets for Nature Similarities and differences to SBTs for GHGs

So far

By end-2022

Key differences



Contents: Concepts & definitions, proposed process, next steps you can take

Full guidance

SBTs for GHGs	SBTs for Nature	
Single driver of impacts (GHGs)	Multiple drivers (land use , water use , pollution, etc.)	
1 kg of CO2-eq emissions has the same impact regardless of where it is emitted	Impacts on biodiversity depend on local species richness, diversity, and ecosystem resilience (e.g. water stress)	
Land sector sequestration is not included (so far)	Land sector is included by definition	



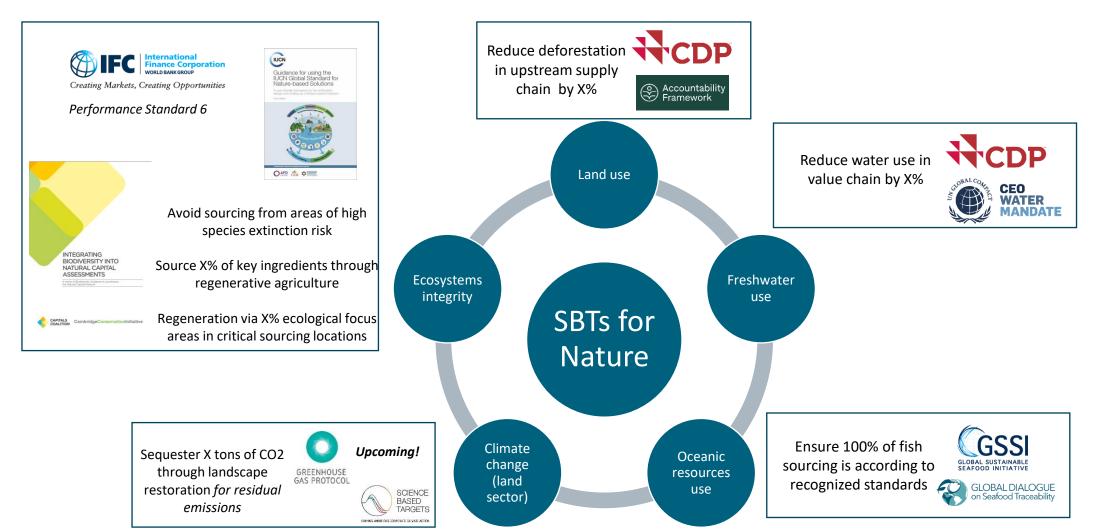
Materiality as a guiding principle (you cannot/need not do everything!)

You will need to understand the local context

Parallel update of GHG Protocol & SBTi (GHGs) guidance to account for land sector expected end-2021



Science-Based Targets for Nature Where to start? Illustrative targets & supporting initiatives





Task-Force for <u>Nature-related</u> financial disclosures Similarities and differences from TCFD

So far By Q2 2023

Key differences

The Case for a Task Force on Nature-related Financial Disclosures

Full guidance

TCFD (Climate)	TNFD (nature)	
Risks & opportunities stemming from climate change (single lens)	Risks & opportunities stemming from biodiversity issues (multi-issue lens)	
Risks & opportunities	Risks, opportunities & dependencies	
Tools for scenario analysis are (mostly) available	Tools for scenario analysis are (mostly) in development	



You will need to broaden the scope of issues you address

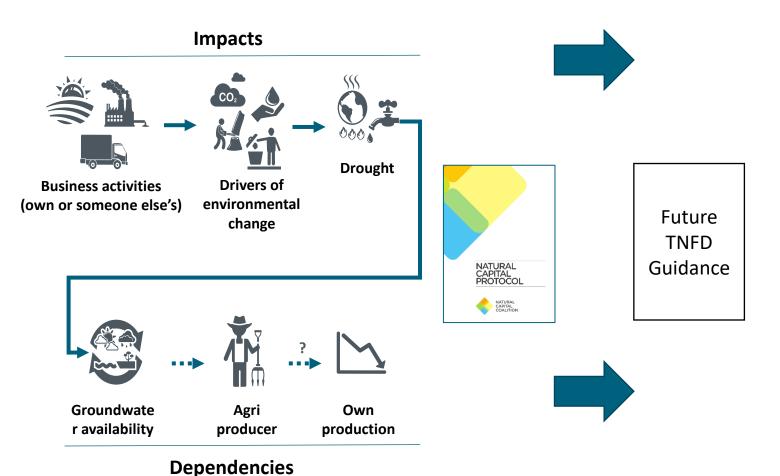
You will need to adopt Natural Capital thinking

Some of the tools needed aren't available yet, but you can already start preparing

Contents:
Concepts & definitions, proposed
risk framework



Task-Force for <u>Nature-related</u> financial disclosures Where to start? Natural Capital thinking



Transition risks	Example	
Policy & regulations	New policy, biodiversity targets Stranded assets (e.g. palm oil)	
Markets	Preference for sustainable goods (e.g. plastics free)	
Reputation	Community opposition Shareholder activism	
Legal	Environmental litigation Loss of license to operate	

Physical risks	Example	
Operations/commodities	Direct dependence on some ecosystem services (e.g. water)	
Supply chain	Increased prices of key raw materials (e.g. due to decreasing yields)	
Disaster resilience	Increased flooding, droughts, pest outbreaks	



Where to start?

SCOPING

Materiality. Screening of potentially important impacts & dependencies on nature (which impacts, which locations)

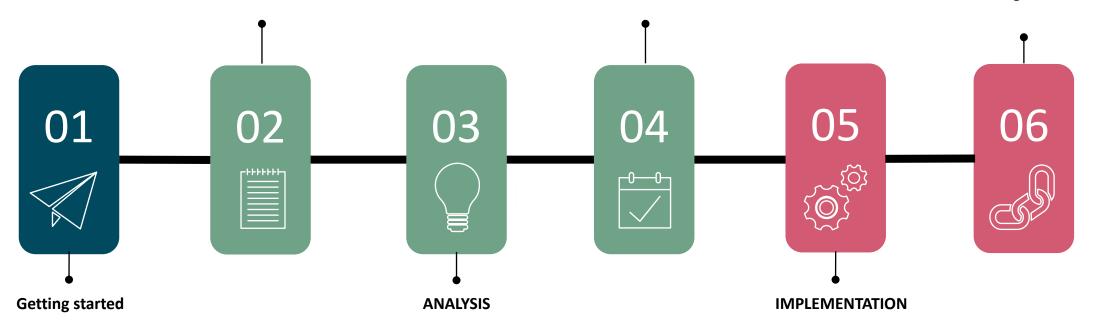
STRATEGY & ROADMAP

Identify steps for integrating or strengthening nature issues in sustainability strategy and activities.

Define levels of ambition (water, deforestation, etc.)

DISCLOSURE

Internal / external communication (SBT, CDP),
Monitoring verification



Understanding the context & its importance

Sustainability strategy gap analysis
On-the-ground analysis – the real company context

Implementation of short and medium-term measures, planning for the long term,

Monitoring plan



Example from Metro AG Scoping: natural capital impacts in the value chain

Goal: Understanding natural capital impacts of fruits & vegetables sourcing.

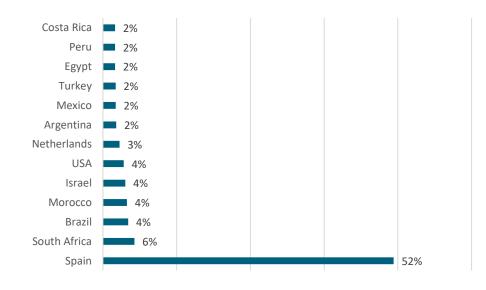
Scope: Hundreds of suppliers from 50+ countries.

Approach: Input-output modelling based on purchasing data. Monetization of impacts for comparability.

Outcomes: "Big picture" view of entire F&V supply chain, allowing for further prioritization of activities.

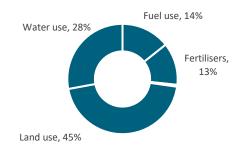


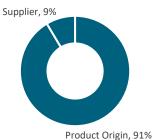
Shares of impacts by country



Shares by driver of impacts

Shares by supply chain step







Example for on-the-ground assessment

ANALYSIS: Understanding the company context (time and place)

Goal: Understand *local* biodiversity issues.

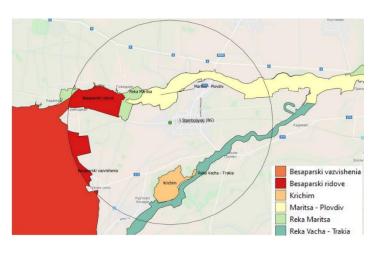
Scope: Site/operations-level.

Approach: Mapping, local data

sources & research.

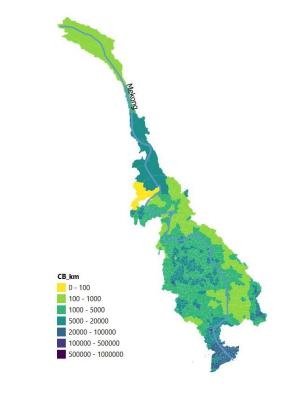
Outcomes: Prioritization of issues between sites based on their local characteristics.

Mapping areas of high biodiversity value in vicinity of site



Pressure	Driver	Potential impact	Remedial measures
Waste water discharge	Chemical water status	Deteriorating water quality downstream	Increased periodic monitoring
Soil contamination	Pipe leakage	Chlorates to soil	Stepwise pipe replacement
Air emissions	Fuel use	NOX, SOx pollution	Fuel switch to biofuel boiler

Mapping plastics pollution from products use





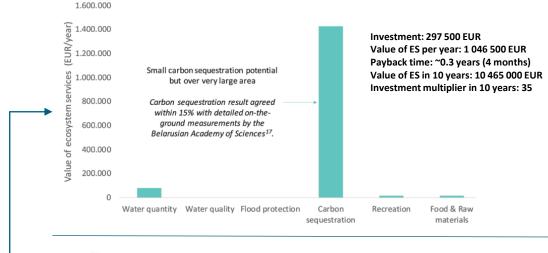
Example from The Coca-Cola Company STRATEGY: From water replenishment to Nature-Based Solutions

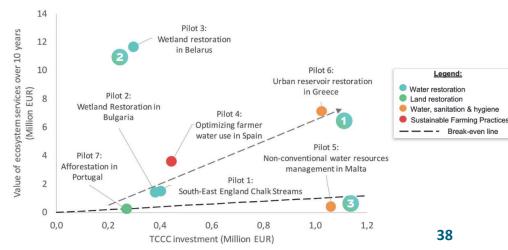




Example pilot:
Yelnya, Belarus
(5th largest peat bog in Europe)

Hear more about this on the 23rd of March as part of the WVN programme (09:00 – 10:30 CET)!







Example for supply chain

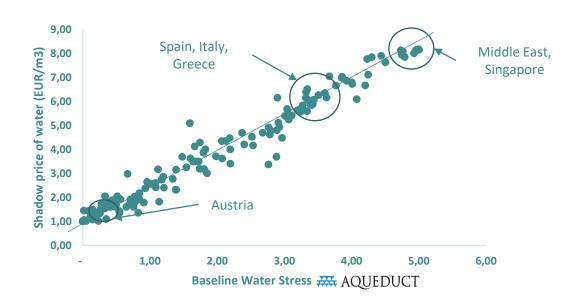
IMPLEMENTATION: Guiding investment via a Shadow price of water

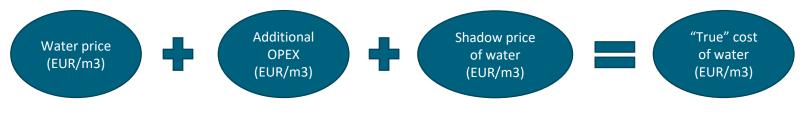
Goal: Integrating water-related risks in investment decisions.

Scope: ~200 bottling plants across the world.

Approach: Valuation of natural & social capital benefits of water, taking into account its local importance (water stress).

Outcomes: Water-related risks can be integrated into financial decision making, esp. in cost-benefit analyses of measures for water efficiency improvement.





In vast majority of cases, does not cover any impacts on nature.

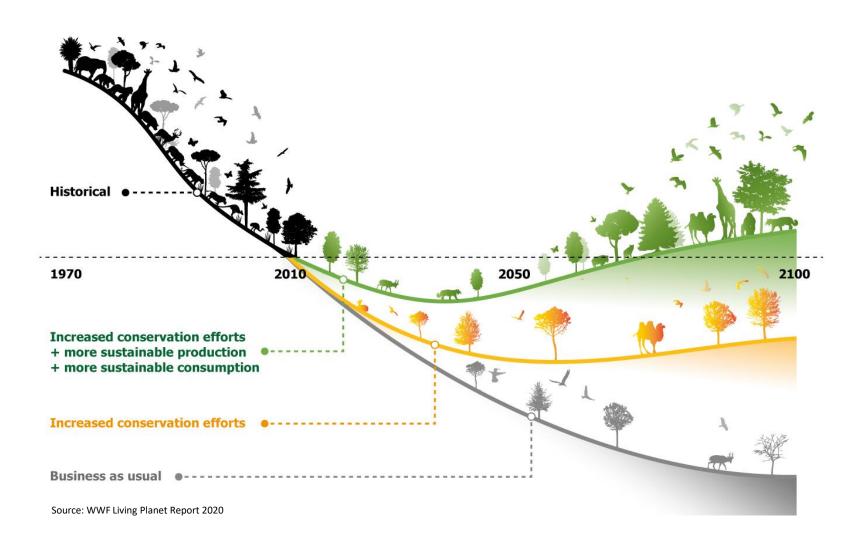
Adding additional water-related expenses (pumping, treatment, etc.) gives a fuller appreciation of value but still does not cover nature-related issues.

Shadow price of water reflects potential costs for other users (agriculture, sanitation, ecosystems). Depends on local water stress.

Can more adequately guide financial decisions, considering water-related risks.



Bending the curve!





To sum it up

What is expected already ("must-haves")

- Committment & action on climate
- Based on existing standards, such as GHGP, SBTi, TCFD ...
- Climate action becoming mainstream in major markets – harder to be a frontrunner!
- Scientific (+ policy) insights show biodiversity as emerging risk + topic to engage for companies
- Biodiversity seen as material topic for certain sectors – hard to grasp for many others!

What will be expected (future "must-haves")

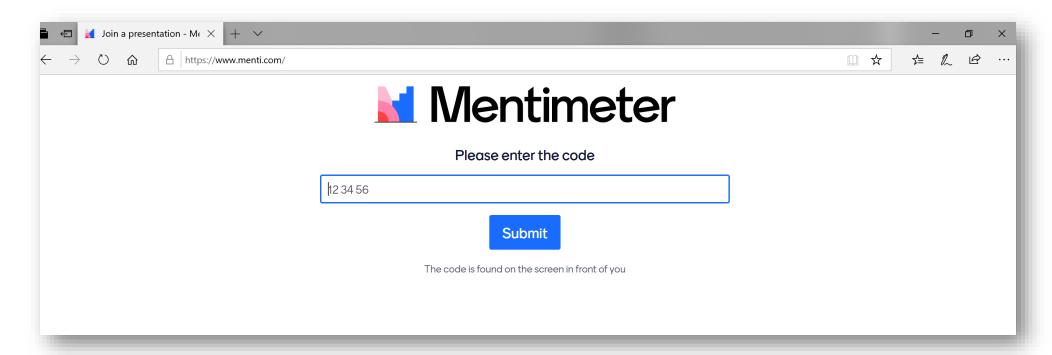
- Committment & action on biodiversity
- Governmental policies are emerging
- Standards and methodologies for business are emerging
- You can already set targets and/or explore risks for multiple issues
- Awareness + action on biodiversity to emerge from niche topic into mainstream for all sectors
- Various stakeholders (NGOs, science, local commiunities ...) expected to engage more on biodiversity



Ask us anything!

Please open your browser and type in: menti.com

Enter this code: 4436 6171 (will also post in the chat)





Thank you



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https://bit.ly/2TaYSvs

https://bit.ly/3bTEp8y



Join our We Value Nature event!

Water replenishment & Creating natural capital through nature-based solutions

23rd March 2021, 9:00 - 10:30 CET



The Capitals Community is the networking space for the We Value Nature 10-Day Challenge.

Sign up and join the We Value Nature group to take part in the conversations:

https://community.capitalscoalition.org



We want your feedback!

Please share your thoughts on this session and the overall 10-Day Challenge event at:

https://wevaluenature.eu/Feedback