



fdf | AMBITION
2030

Introduction to Nature with the Green Finance Institute

27th March 2025

Agenda

- Introduction to FDF's Ambition 2030
- The Nature pillar & activities over 2025
- Overview of TNFD
- Guidance for FDM
- Getting started!
- Any questions!





PILLAR 1:

Net Zero

Ambition:
Contribute to a 50% reduction in emissions across the agrifood supply chain by 2030



PILLAR 2:

Nature Restoration

Ambition:
Build a 'Nature Positive' industry to halt and reverse nature loss by 2030



PILLAR 3:

Sustainable Commodities

Ambition:
Contribute to halting commodity-driven deforestation and conversion by 2030



PILLAR 4:

Food Waste

Ambition:
Halve per capita food waste by 2030, contributing to UN SDG 12.3 and the Courtauld 2030 commitment















PILLAR 5:

Packaging

Ambition:
Contribute to implementing a world-class packaging recycling system in the UK, reducing the environmental impact of packaging

<https://www.fdf.org.uk/ambition2030>

Nature Restoration

	Entry	Established	Innovative
Targets	<p>Sustainable sourcing policies/codes of conduct.</p> <p>Supply chain engagement and due diligence, including asking questions about the sustainability of supply and where it is coming from.</p> <p>Engagement with key suppliers*</p>	<p>50% of fresh food being sourced from areas with sustainable water management by 2030.</p> <p>Sourcing from certified supply chains.</p> <p>Engagement with suppliers on regenerative farming practices.</p>	<p>Nature restoration partnership in key sourcing geography (e.g. through NGO partnerships)</p> <p>Piloting new nature frameworks (e.g. TNFD, SBTN)</p> <p>Regenerative agriculture targets (i.e. % of ingredients sourced from regen farms or ha of land farmed regeneratively)</p>
Guidance frameworks	<p>Principles set out by the AFI:</p>  <p>Accountability Framework initiative</p>	 <p>ALLIANCE FOR WATER STEWARDSHIP</p>   <p>LINKING ENVIRONMENT AND FARMING Integrated Farm Management</p>   	 <p>SCIENCE BASED TARGETS NETWORK GLOBAL COMMONS ALLIANCE</p>    

Activities over 2025

- PA and stakeholder webinars
- 18th June risk workshop for members
- June ESC at the Allerton Project?
- Nature Handbook (Q3/Q4 launch)
- Member site visits (Q3 onwards)
- Cambridge University research



TNFD 101: Introduction to the TNFD for food and drink manufacturing

March 2025



Agenda

Overview of TNFD



What guidance is there for food and beverage manufacturers?



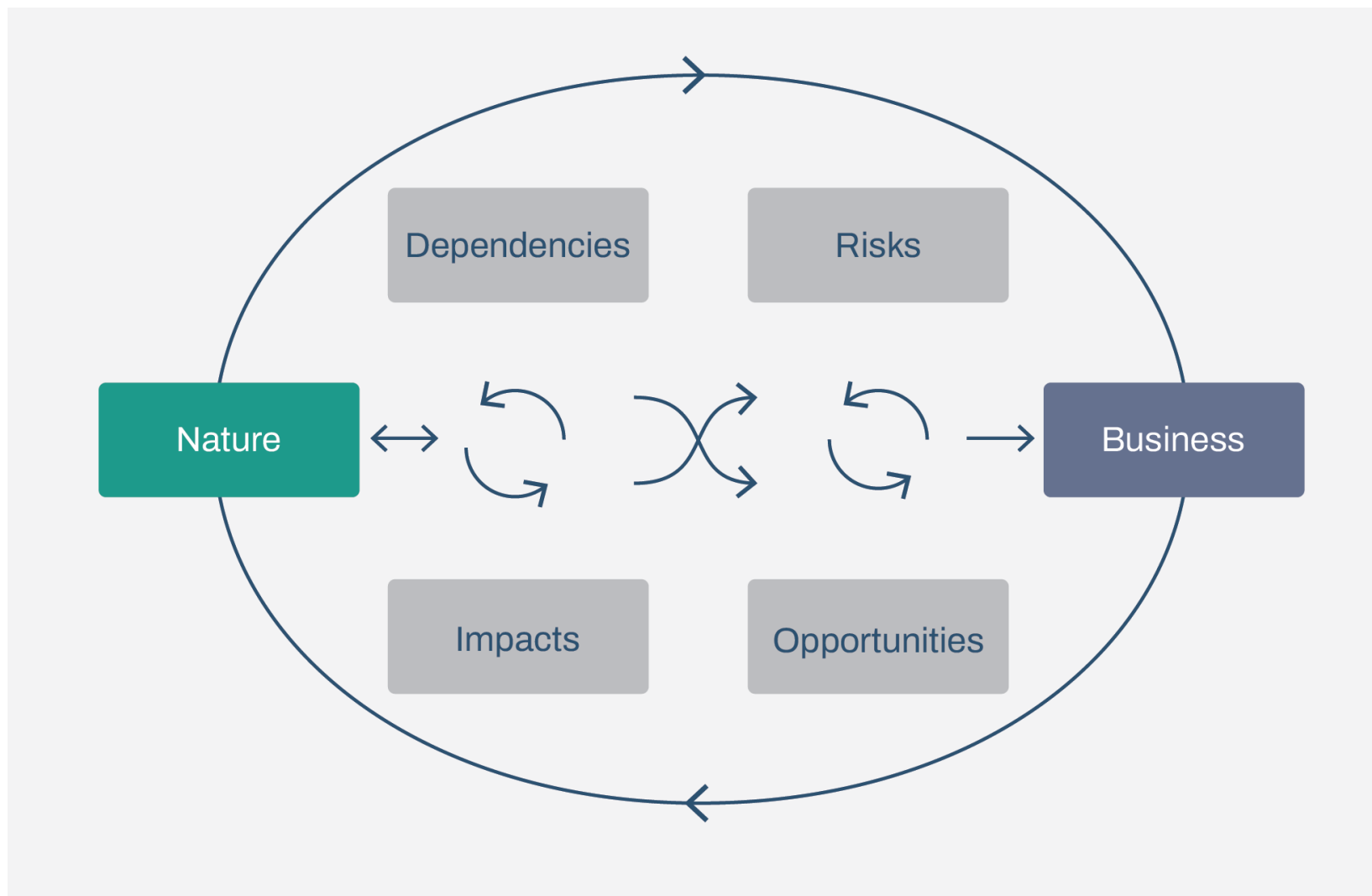
How are food and beverage manufacturers getting started?



Overview of TNFD



Nature-related issues for business and finance to consider



Dependencies: Aspects of environmental assets and ecosystem services that a person or an organisation relies on to function.

Impacts: Changes in the state of nature (quality or quantity), which may result in changes to the capacity of nature to provide social and economic functions.

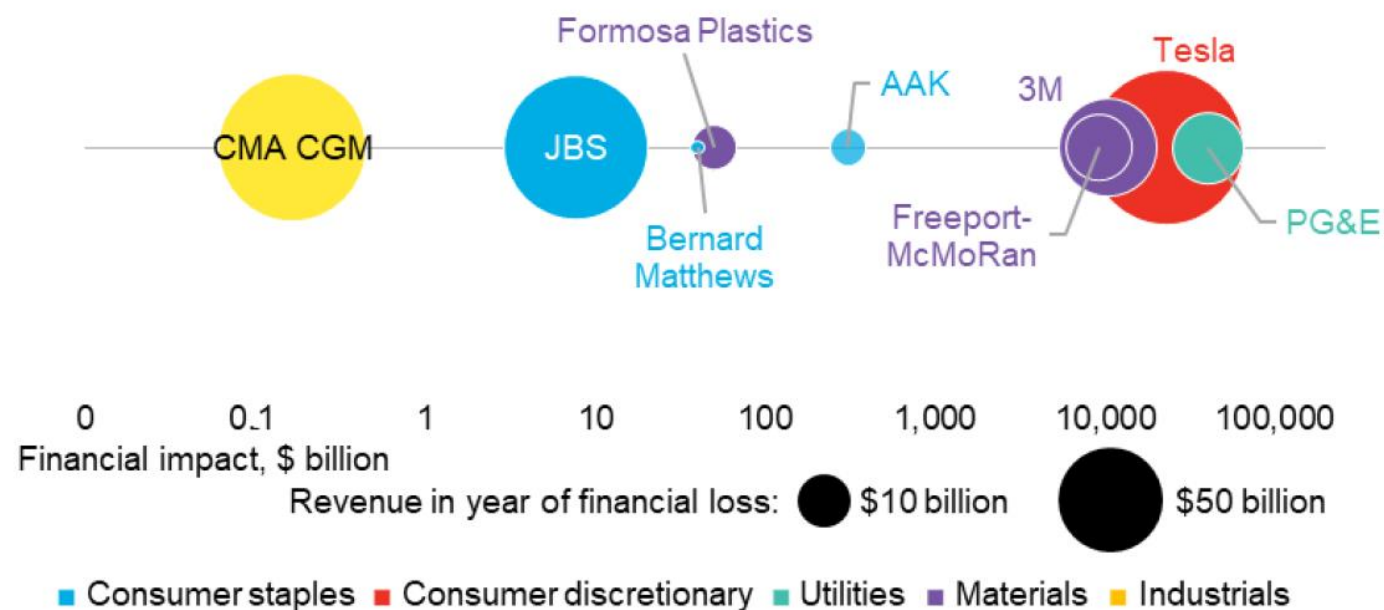
Risks: Potential threats (effects of uncertainty) posed to an organisation that arise from its and wider society's dependencies and impacts on nature.

Opportunities: Activities that create positive outcomes for organisations and nature by creating positive impacts on nature or mitigating negative impacts on nature.

The financial costs of nature-related risks are mounting

\$83.2 billion - Total financial impact on the 10 firms profiled in Bloomberg NEF case studies, including examples of:

- 90% fall in market cap
- Chapter 11 bankruptcy
- Credit rating downgrades
- Multi-billion dollar litigation settlements
- Major reputational damage (loss of consumer loyalty)



Why now? Investors are demanding more information

“Nowhere to hide from nature risk”

“

As a long-term financial investor, we may be exposed to portfolio risks and lost investment opportunities as biodiversity and ecosystems becomes degraded. The fund holds a diversified portfolio across industries and markets, and over time externalities from unsustainable use of natural ecosystems may affect its long-term performance.

NORGES BANK

Norges Bank Investment Management, Biodiversity and ecosystems: Expectations of companies

“

...We encourage companies with a material impact and reliance on biodiversity and natural capital more globally to put in place effective mitigation strategies within relevant timelines. For these companies, insufficient improvements in terms of disclosure of biodiversity-related strategy and risk management may lead to a dissenting vote cast against the Management (including by supporting biodiversity-related shareholder resolutions) or the Board.

AXA Investment Managers

AXA Investment Managers Corporate Governance & Voting Policy, February 2024



Nature Action 100

“

Accordingly, we expect all companies to begin reporting within a reasonable timeframe against the Taskforce on Nature-related Financial Disclosures (TNFD) framework due to be finalised in 2023. In preparation for reporting against the framework, companies should undertake the TNFD recommended business model assessment process, referred to as LEAP...

AVIVA

Annual letter to company chairpersons
Mark Versey, CEO Aviva Investors

“

In our view, the final recommendations of the TNFD may prove useful to some companies as they build or improve their reporting over time. We also encourage companies to consider the disclosure metrics suggested in the TNFD final recommendations where possible and relevant to their business model or the location they operate in.

BLACKROCK

BlackRock Investment Stewardship
Global Principles 2024



A PRI stewardship
initiative for nature

“

Depending on the level of biodiversity incorporation we would expect and recommend the investee companies which we engage to demonstrate... Transparent disclosure - reporting regularly on biodiversity and, endorsing the Taskforce on Nature-related Financial Disclosures (TNFD).

Allianz

Allianz Global Investors Biodiversity
Policy Statement 2023

Overview of the TNFD



Mission

To encourage and enable business and finance to assess, report and act on their nature-related dependencies, impacts, risks and opportunities.



To support a shift in global financial flows away from nature-negative outcomes and toward nature-positive outcomes, aligned with the Global Biodiversity Framework.



Approach

Market-led:

40 Taskforce Members & 1500+ institutional supporters in the TNFD Forum

Science-based:

20 of the world's leading scientific and standards bodies as partners

Government-supported:

G7 & G20 supported



The Taskforce

Financial Institutions

AP7, AXA, Bank of America, Bank of China, Banorte, BlackRock, BNP Paribas, FirstRand, HSBC, Macquarie, MS&AD insurance Group Holdings, Mirova, Norges Bank Investment Management (NBIM), Norinchukin Bank, Rabobank, Singapore Exchange, SwissRe, UBS

Corporates

AB InBev, Acciona, Anglo American, Bayer, Bunge, City Developments Ltd, Dow, EcoPetrol, GSK, Grieg Seafoods, Holcim, LVMH, Natura & Co, Nestle, Reckitt, Suzano, Swire Properties, Tata Steel

Service Providers

Deloitte, EY, KPMG, Moody's, PwC, S&P Global

14 recommended disclosures

■ Carried over from TCFD
■ Additional

- Building on TCFD: all 11 disclosures carried over
- Consistent with language and approach of IFRS S1
- Aligned with GBF (Target 15) goals
- 3 additional recommended disclosures:
 - Engagement with IPLCs and affected stakeholders
 - Interface with priority locations
 - Value chains

TNFD recommended disclosures			
Governance	Strategy	Risk & impact management	Metrics & targets
<p>Disclose the organisation's governance of nature-related dependencies, impacts, risks and opportunities.</p>	<p>Disclose the effects of nature-related dependencies, impacts, risks and opportunities on the organisation's business model, strategy and financial planning where such information is material.</p>	<p>Describe the processes used by the organisation to identify, assess, prioritise and monitor nature-related dependencies, impacts, risks and opportunities.</p>	<p>Disclose the metrics and targets used to assess and manage material nature-related dependencies, impacts, risks and opportunities.</p>
<p>Recommended disclosures</p> <ul style="list-style-type: none"> ● A. Describe the board's oversight of nature-related dependencies, impacts, risks and opportunities. ● B. Describe management's role in assessing and managing nature-related dependencies, impacts, risks and opportunities. ● C. Describe the organisation's human rights policies and engagement activities, and oversight by the board and management, with respect to Indigenous Peoples, Local Communities, affected and other stakeholders, in the organisation's assessment of, and response to, nature-related dependencies, impacts, risks and opportunities. 	<p>Recommended disclosures</p> <ul style="list-style-type: none"> ● A. Describe the nature-related dependencies, impacts, risks and opportunities the organisation has identified over the short, medium and long term. ● B. Describe the effect nature-related dependencies, impacts, risks and opportunities have had on the organisation's business model, value chain, strategy and financial planning, as well as any transition plans or analysis in place. ● C. Describe the resilience of the organisation's strategy to nature-related risks and opportunities, taking into consideration different scenarios. ● D. Disclose the locations of assets and/or activities in the organisation's direct operations and, where possible, upstream and downstream value chain(s) that meet the criteria for priority locations. 	<p>Recommended disclosures</p> <ul style="list-style-type: none"> ● A(i) Describe the organisation's processes for identifying, assessing and prioritising nature-related dependencies, impacts, risks and opportunities in its direct operations. ● A(ii) Describe the organisation's processes for identifying, assessing and prioritising nature-related dependencies, impacts, risks and opportunities in its upstream and downstream value chain(s). ● B. Describe the organisation's processes for managing nature-related dependencies, impacts, risks and opportunities. ● C. Describe how processes for identifying, assessing, prioritising and monitoring nature-related risks are integrated into and inform the organisation's overall risk management processes. 	<p>Recommended disclosures</p> <ul style="list-style-type: none"> ● A. Disclose the metrics used by the organisation to assess and manage material nature-related risks and opportunities in line with its strategy and risk management process. ● B. Disclose the metrics used by the organisation to assess and manage dependencies and impacts on nature. ● C. Describe the targets and goals used by the organisation to manage nature-related dependencies, impacts, risks and opportunities and its performance against these.

A risk assessment process – the LEAP approach



Engagement with Indigenous Peoples, Local Communities and affected stakeholders

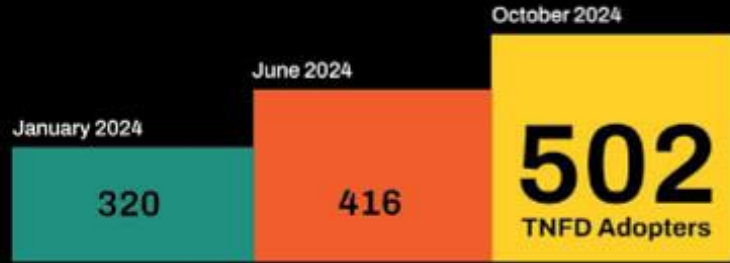
Scenario analysis

Highlights

- Designed for use by organisations of all sizes across all sectors and geographies.
- Extensive market feedback and pilot tested by over 240 institutions across sectors, geographies and biomes
- Tips on data sources used and constraints experienced, and links to TNFD Tools Catalogue

TNFD Adopters as of Oct 2024

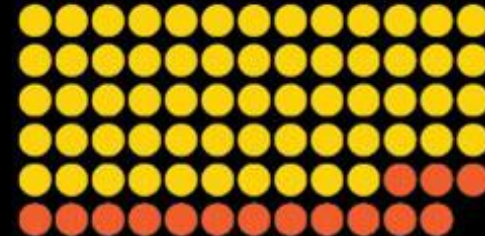
57% Increase in Adopters since January 2024



Financial year
Adopters to start reporting



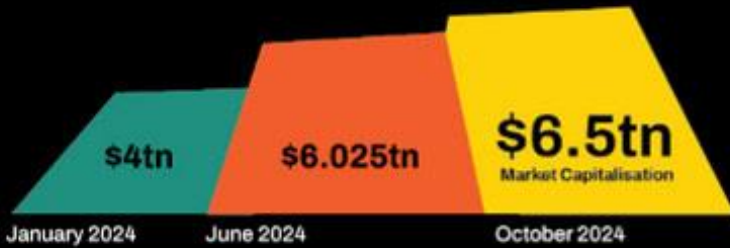
62 out of 77
SASB SICS industries covered



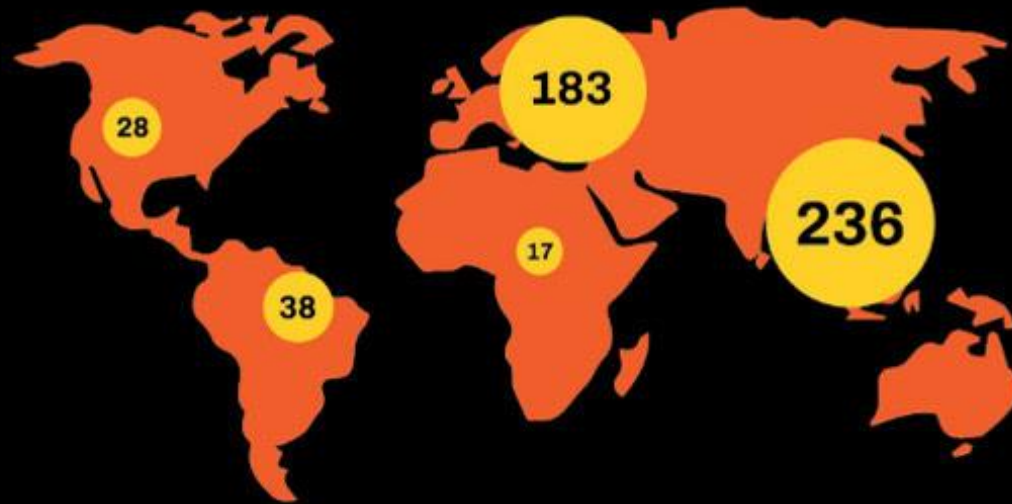
Organisation type



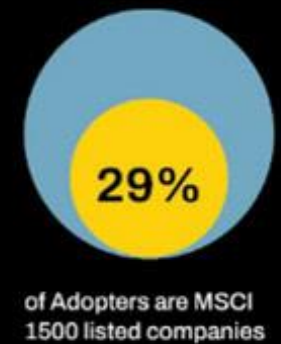
63.2% Market cap increase since January 2024



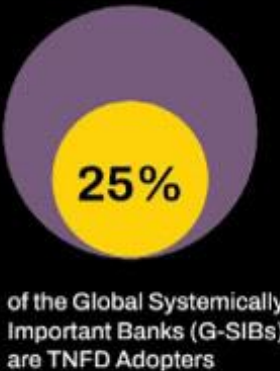
Adopters by region



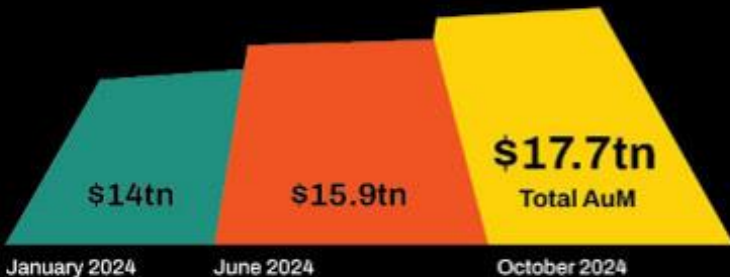
MSCI 1500



G-SIBs



26.2% AuM increase since January 2024



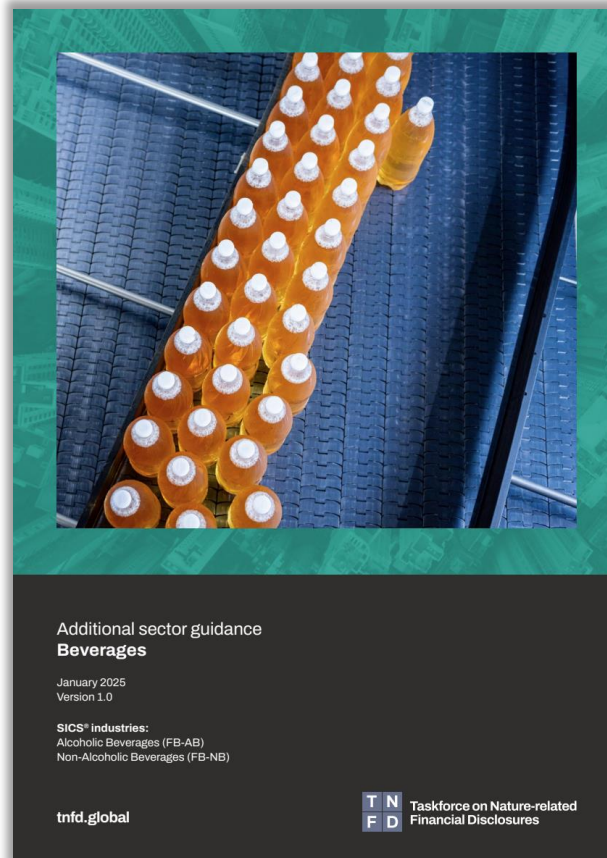
54 Adopter HQ jurisdictions
17% of Adopters located in emerging economies



What guidance is there for food and beverage manufacturers?



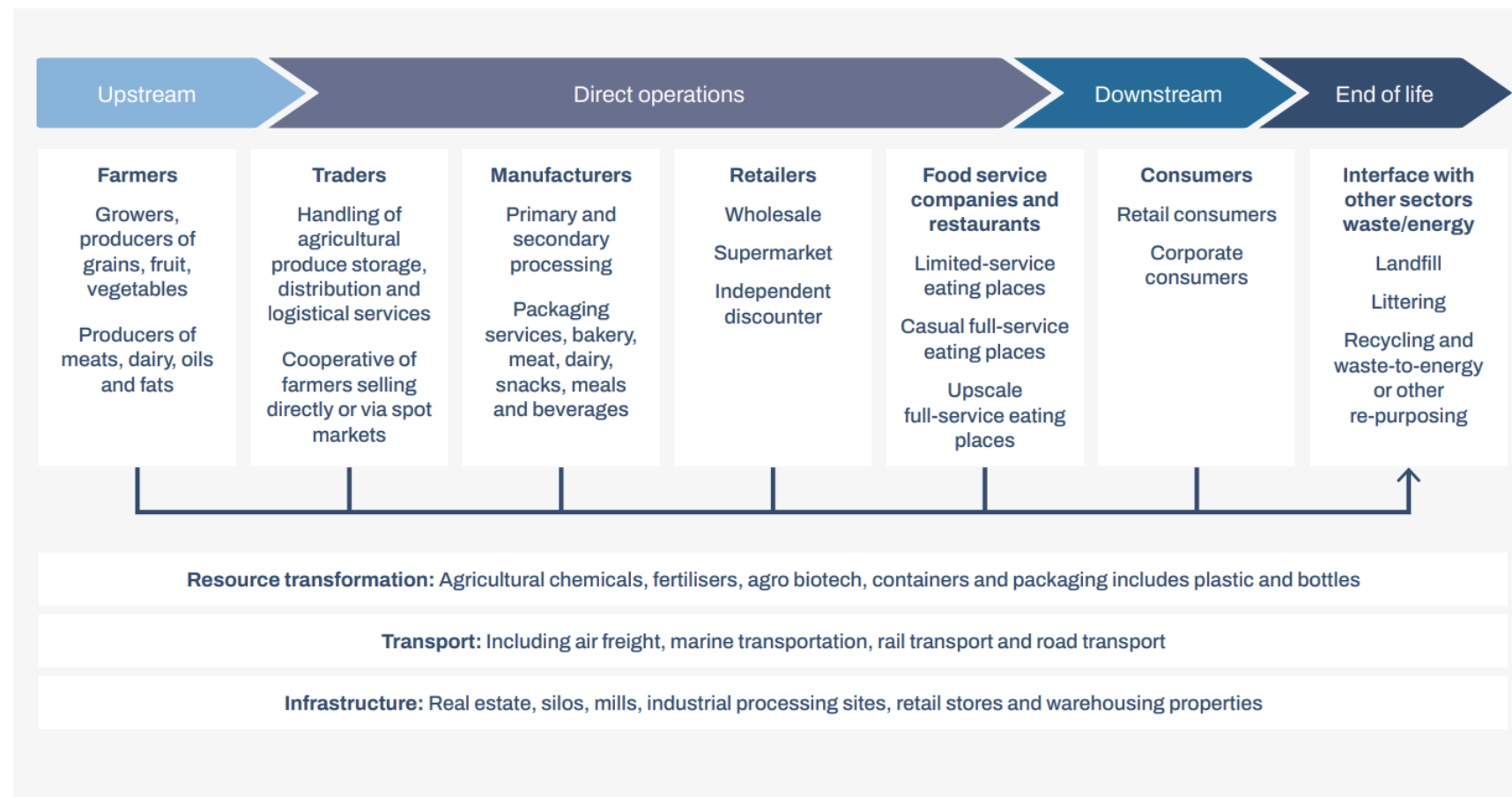
Sector-specific guidance applies the LEAP assessment and provides additional metrics



Locate: Map against the value chain

Figure 3: Illustrative food and agriculture value chain

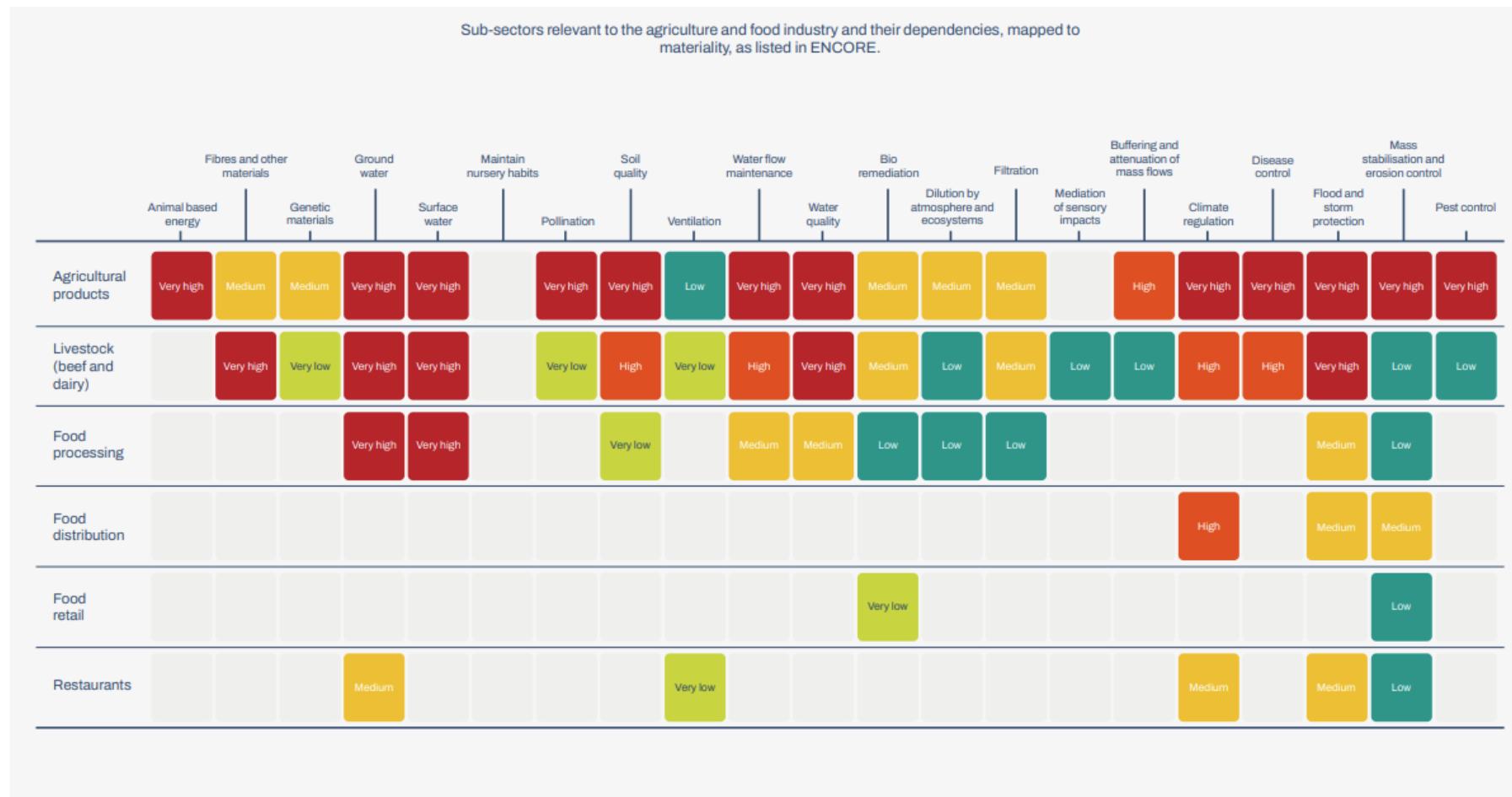
- Map your operations across value chain components
- Understand where these components take place
- Understand whether these are within sensitive locations



Source: Adapted and expanded from Capitals Coalition (2023) [Primer – TEEB for agriculture and food: Operational guidelines for business.](#)

Evaluate: Identify material dependencies

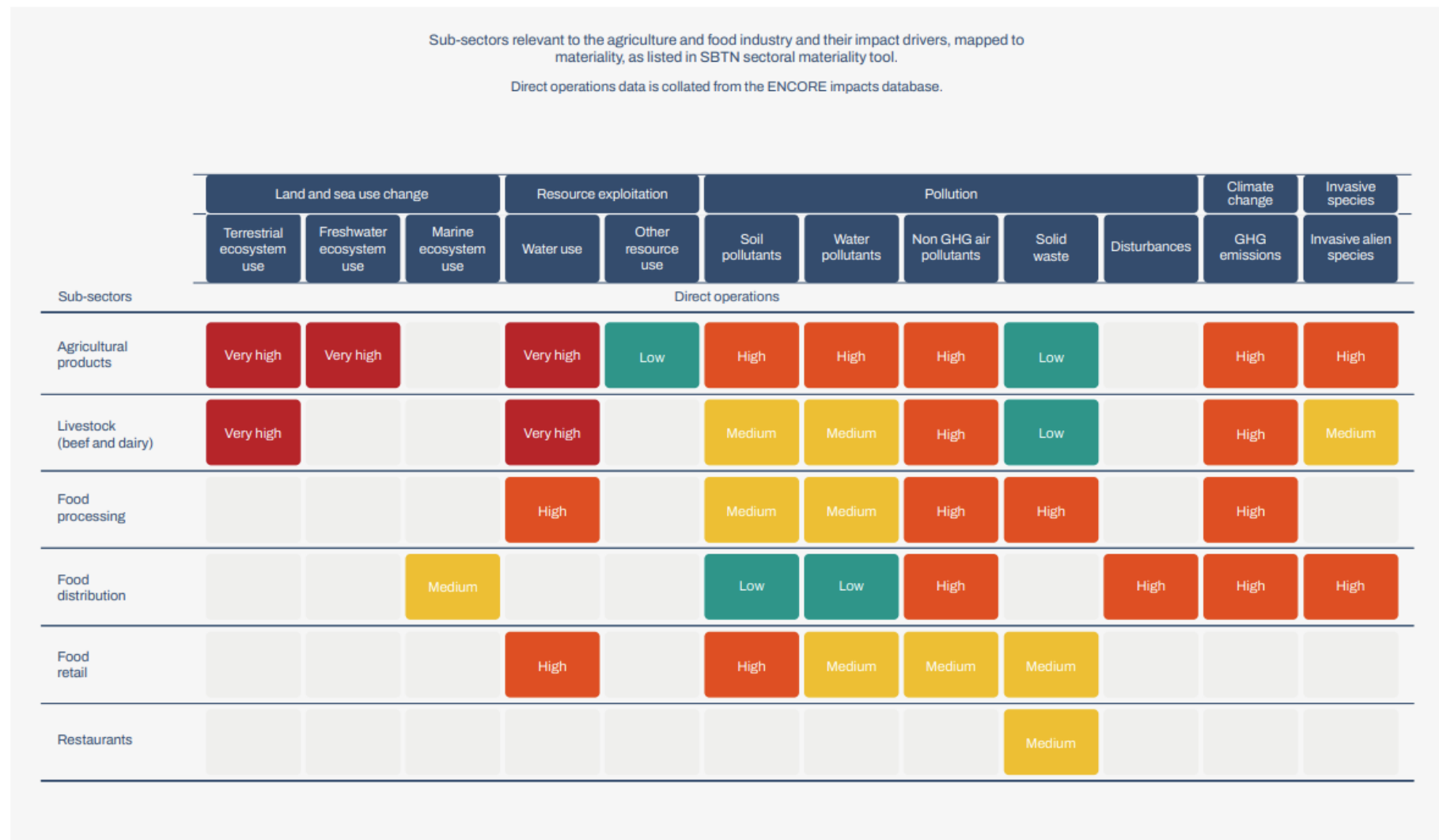
Figure 4a: Materiality ratings of ecosystem services the food and agriculture sector typically depends on (based on ENCORE 2018-2023 data)



- What are your dependencies nature?
- Which of those identified are material?
- Key material dependencies for the sector – ground water, surface water, water flow maintenance and water quality

Evaluate: Identify material impacts

Figure 5a: Materiality ratings for impact drivers typically relevant for the food and agriculture sector (based on 2018-2023 version of ENCORE)



- What are your impacts nature?
- Which of those identified are material?
- Key material impacts for the sector - Water use, pollutants and solid waste.

Assess: Identify risks and opportunities

- Risks and opportunities arise from material dependencies and impacts
- Which risks and opportunities should be prioritised?

Risk and opportunity type		Examples of risks and opportunities
Physical risk	Acute	Revenue reduction due to increase in crop and livestock pests and disease.
		Increase in production and sourcing costs due to high or extremely high baseline water stress.
		Increase in capital expenditure on infrastructure repair due to damage by flooding, landslide or other natural disaster in the area of food company operations.
Transition risk	Market	Market share loss due to slow adoption of environmentally friendly plastic packaging.
		Adoption of biodiversity net gain requirements.
		Market share loss due to increasing consumer preferences for food produced via regenerative practices and/or for plant based, sustainably produced protein.
Transition risk	Reputation	Loss in revenue due to reputational damage caused by business contamination of ground water, eutrophication, plastic pollution, deforestation and/or emissions.
Opportunity	Resource efficiency	Full traceability of ingredients with high-risk exposure to embodied nature related risks reduce certification and compliance costs.
		Reduction in input costs as a result of investment into precision farming technologies.
		Increase in market valuation due to regenerative farming practices and increase in percentage of natural vegetations enhancing ecosystem services and environmental assets (e.g. soil structure increases resilience to weather-related shocks).
		Percentage reduction in input costs due to increased rate of recycling (plastics, nutrients, water etc.).

Prepare: Develop actions to manage risks and opportunities

- What risk management, strategy and resource allocation decisions should be made as a result of this analysis?

Water		
Strategy	Establish (science-based) targets to reduce your pressures on freshwater, including water quantity targets on a reduction of your water withdrawals from surface and groundwater sources, and water quality targets on reductions of nutrient loading (nitrogen and phosphorus) to freshwater systems.	SBTN freshwater quantity and quality targets (2024)
	Establish a water management plan with clear targets for reducing emissions to water of key pollutants, including NOx, SOx, pesticides and antibiotics.	TNFD
	Invest in water-efficient farming technologies and water recycling technologies.	FAO (2021)
Waste		
Strategy	Adopt policies and commitments to address food loss and waste in direct operations and the supply chain, with a target to reduce food waste by 50% and food losses by at least 25% by 2030.	Adapted GRI 13 (2022); GBF target 16; SDG 13.1; Champions 12.3
	Develop strategies to reduce the environmental impact of packaging throughout its life cycle, including commitments to eliminate unnecessary plastic packaging, transition from single use to reuse models, reduce virgin plastic usage, increase postconsumer recycled content, and ensure plastic packaging is reusable, recyclable or compostable.	Adapted from <i>Processed Foods</i> SASB Standards (2023); UNEP & Ellen MacArthur Foundation (2018); related to GBF target 16
	Invest in plastic recycling technologies and infrastructure and plastic reuse solutions.	TNFD

The TNFD framework recommends 22 metrics that could be material for food and agriculture businesses

9

Core global impact and dependency metrics

Aligned to the IPBES drivers of nature loss



Land/ freshwater/ ocean use change

- Total spatial footprint
- Extent of land/ freshwater/ ocean use change
- “conserved or restored



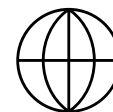
Pollution/ pollution removal

- Soil pollutants
- Wastewater changed
- Waste generation
- Plastic pollution
- Non-GHG air pollutants



Resource use/ replenishment

- Water withdrawal from water scarce areas
- Volume of high-risk commodities sourced



Invasive alien species and other

- Placeholder indicator: Preventative measures in place



State of nature

- Placeholder indicator: Ecosystem condition
- Placeholder indicator: Species extinction risk



Climate change

- Covered by TCFD: GHG emissions

5

Core global risk and opportunity metrics



Risk

- Value of assets vulnerable to transition risk
- Value of assets vulnerable to physical risk
- Value of nature-related penalties or litigation action



Opportunity

- Financing deployed towards nature opportunities
- Share of revenue from products and services with positive impacts on nature

3

Core sector disclosure indicators and metrics



Land/ freshwater/ocean use change

- Deforestation and conversion-free products



Resource use/replenishment

- Products from areas of water scarcity



Opportunity

- Food waste repurposed

- Companies are **not expected to report against all metrics** immediately
- Companies often **start with those for which it believes there is data of sufficient quality**
- There will be many **learnings from 2025 peer reports**
- Many organisations are starting with **process-based metrics and targets**

How are food and beverage manufacturers getting started?



How are UK retail and food sector businesses getting started?



What would unlock further action?

- ✓ Sector alignment on **core metrics**, enabling **consistent asks from suppliers and farmers**
- ✓ Collaboration across businesses to define industry **norm for risk and impact assessment** across **global supply chains**

What are leading retail, food and hospitality businesses doing?



Partner with local authorities and other businesses to collectively reduce impact on surrounding ecosystems



Location specific risk assessments on high-risk product lines

What are most retail, food and hospitality businesses' first steps?



High level materiality assessment with public tools and datasets



Ensure structure and governance for nature work mirrors and builds out from existing climate work



Use existing resources available through schemes such as Consumer Goods Forum and LEAF Marque

Why are retail, food and hospitality businesses considering TNFD-aligned reporting?



Mandatory disclosure requirements on nature in the UK



Investor pressure to disclose nature strategy



Nature-related risk resulting in material financial risk



Competitive pressure from peers to keep up with industry standards

Bunge example

- 26% of facilities located in sensitive areas
- Highlights Brazil as a priority area
- Prioritising action on water and deforestation

The LEAP Approach stands for:

Step 1

L Locate the company's interface with nature across geographies and value chain

As shown in the map below, we mapped Bunge's processing facilities and defined locations where Bunge directly interfaces with nature and biodiversity-sensitive regions as per the [ArcGIS Biodiversity Hotspots 2016 map](#).

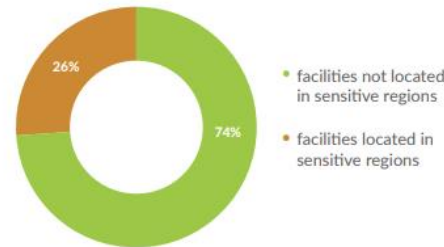


Step 2

E Evaluate the dependencies and impacts on the nature

Having located each processing facility, we conducted a dependency analysis to evaluate the level of interface of our facilities within biodiversity sensitive regions compared to the overall company.

Facilities in Sensitive Regions for Biodiversity



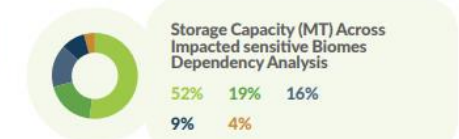
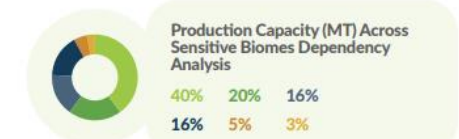
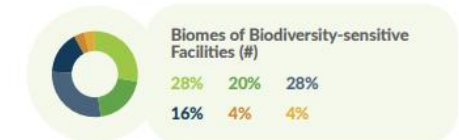
[Bunge Global Sustainability Report](#)

Step 3

A Assess the nature-related risks and opportunities

The analysis of our processing facilities in biodiversity-sensitive regions clearly revealed two regions, the Cerrado and Atlantic Forest, also known as Mata Atlântica. Both biomes in Brazil stand out due to their high degree of endemism and significant habitat loss.

Cerrado Atlantic Forest Mediterranean Basin North American Coastal Plain Indo-Burma California Floristic Province



Step 4

P Prepare the response to nature-related risks and opportunities

The current guidance proposed by TNFD is based on owned and/or controlled operations. Overall, approximately 26% of our facilities and 25% of our total production are located in sensitive areas for biodiversity, while 24% of our storage capacity also impacts such regions. The biomes of Cerrado and Mata Atlântica, both in Brazil, are the most important for us for concentrating 60% of our impacts and 71% of our dependencies.

We understand that, for dealing with agricultural commodities, it is not only where we operate but where these commodities come from as relevant aspect related to biodiversity. In these terms, that is why our analysis considered our production and storage capacities, for they show impacts, dependencies, risks and opportunities that our supply shed may have on biodiversity matters.

The two key aspects related to biodiversity are water, mainly in regions of scarcity, and deforestation and land conversion from natural habitats, thus intrinsically related to biodiversity loss and dependencies. In this report, we have comprehensive disclosure of biodiversity-related matters such as climate and SBTs, water management in our operations as well as our journey fighting deforestation and ecosystem loss in our supply shed for South America, Africa and Asia.

Bunge example

- Aligned to a selection of core metrics

TNFD

Indicator	Sustainability Report 2023
<p>Total spatial footprint (km²) (sum of):</p> <ul style="list-style-type: none"> → Total surface area controlled/ managed by the organization, where the organization has control (km²); → Total disturbed area (km²); and → Total rehabilitated/restored area (km²). 	26% Inside, 74% Outside Biodiversity-sensitive Regions (Dependency Analysis).
<p>Extent of land/freshwater/ocean ecosystem use change (km²) by:</p> <ul style="list-style-type: none"> → Type of ecosystem; and → Type of business activity. <p>Extent of land/freshwater/ocean ecosystem conserved or restored (km²), split into:</p> <ul style="list-style-type: none"> → Voluntary; and → Required by statutes or regulations. <p>Extent of land/freshwater/ocean ecosystem that is sustainably managed (km²) by:</p> <ul style="list-style-type: none"> → Type of ecosystem; and → Type of business activity. 	<p>Total volume of water withdrawn 2023 - 86,840,746 m³.</p> <p>27 million hectares monitored through satellite and radar, page 53.</p>
<p>Pollutants released to soil (tons) by type, referring to sector-specific guidance on types of pollutants.</p>	Hazardous landfill disposal 2023 - 128 metric tons.
<p>Volume of water discharged (m³), split into:</p> <ul style="list-style-type: none"> → Total; → Freshwater; and → Other. Including: <ul style="list-style-type: none"> → Concentrations of key pollutants in the wastewater discharged, by type of pollutant, referring to sector-specific guidance for types of pollutants; and → Temperature of water discharged, where relevant. 	<p>Total volume of water discharged 2023 - 74,855,953 m³.</p> <p>Total volume of fresh surface water discharged 2023 - 13,693,867 m³.</p>

[Bunge Global Sustainability Report](#)

Actions to take now

1. Sign up to the TNFD UK Consultation Group
2. Read the TNFD guidance and explore resources
3. Reach out to us to discuss how you can get started
4. Consider which of your existing day-to-day processes and actions are relevant to nature
5. Perform a high-level materiality assessment using public tools and data
6. Consider whether a further conversation on TNFD with your peer group would be of interest

Questions?

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Hannah.murray@gfi.green

