# Introduction to Environment Pillar CIRCULARITY AND ENVIRONMENTAL PROTECTION

At F&N, we fully recognise and embrace the significant responsibility our business bears in safeguarding the environment. We are acutely aware of the pivotal role we play in preserving and nurturing our natural surroundings for the benefit of current and future generations.

Within our operations, we prioritise and champion circularity and environmental efficiency by effectively managing energy, water, and waste resources. Shifting towards a circular economy opens prospects for enhancing business value and also serves as a means to mitigate environmental consequences.

We recognise the interaction of the F&B sector with biodiversity and are committed to sourcing ingredients with respect of their impacts on the ecosystem.

### **Operational Eco-Efficiency**

- Energy and Climate Change
- Water Stewardship
- Waste Management

### **Value Chain Impacts**

- Packaging
- Biodiversity

## 2025 SUSTAINABILITY TARGETS AND FOCUS AREAS



## ENERGY AND CLIMATE CHANGE

- Reduce the Group's energy intensity ratio at our plants (from a 2020 baseline) by 8% by 2025
- Reduce the Group's GHG emissions intensity ratio at our plants (from a 2020 baseline) by 8% by 2025



## **WASTE STEWARDSHIP**

Reduce the Group water intensity ratio at our plants (from a 2020 baseline) by 8% by 2025



## **WASTE MANAGEMENT**

Reduce the solid waste sent to landfill (from a 2020 baseline) by 30% by 2025



## PACKAGING

25% of beverage and dairy packaging to contain recycled materials by 2025



## OPERATIONAL ECO-EFFICIENCY

F&N recognises that our operations create environmental impacts through energy, water and resource consumption. To reduce our environmental impacts, we explore avenues to improve our manufacturing processes, through innovative initiatives and resourceful strategies, to optimise eco-efficiency to minimise our environmental footprint and align our operations more closely with sustainable practices.

Details on how we approach each environmental impact are elaborated in the following sections:

- Energy and Climate Change
- Water Stewardship
- Waste Management

#### **ENVIRONMENT, SAFETY AND HEALTH POLICY**

Guided by our ESH policy, F&N implements environmentally sustainable business practices, aligned with our core values and the circular economy principles. It serves as a framework for F&N's decisions across our value chain. We work with local communities to protect and preserve the environment and strive for zero waste and zero pollution, where possible.

### **OUR ENVIRONMENTAL SAFETY & HEALTH POLICY**

All of our operations in Singapore, Malaysia and Thailand are guided by the following principles, to:



Comply with applicable environmental, safety & health, legal and other requirements and also work with relevant statutory bodies to provide and maintain a safe, green working environment



Provide and maintain relevant training, instruction, information, resources and supervision to our employees about our commitments and encourage their involvement in Environmental, Safety & Health Programmes

Ensure continual improvement in the Environmental, Safety and Health

Management system and standards



Develop review and carry out Environmental Impacts and Occupational Risk Assessments to take appropriate control measures for prevention of pollution, injury and illness





Foster communication with shareholders. employees, customers, suppliers and local communities to protect the environment and to have hazard free condition



Strive for Zero Waste, Zero Pollution and Zero Accident through continual improvement in our management systems and processes

## ENERGY AND CLIMATE CHANGE

## **GRI Index:**

GRI 302-1, GRI 302-3, GRI 305-1, GRI 305-2, GRI 305-4

SDGs:



Climate change pressures production processes and introduces climate-related risks, such as raw material price fluctuations and water resource access issues. However, it also offers climate-related opportunities, such as cost savings and meeting consumers' expectations. For a more detailed focus on climate-related risks and opportunities, refer to the 'TCFD and Climate Risk Management' chapter of this Report. F&N is committed to reducing the energy and GHG emission intensities of our plants, as per our 2025 sustainability targets. We assume the responsibility to minimise our carbon footprint across our value chain.



Reduce the Group's energy intensity ratio at our plants (from a 2020 baseline) by 8% by 2025



In FY2024, our energy intensity ratio decreased by 2% from 2020, due to various energy efficiency initiatives at our plants.

Target

Target

Reduce the Group's GHG emissions intensity ratio at our plants (from a 2020 baseline) by 8% by 2025



In FY2024, our GHG emissions intensity ratio decreased by 13% from 2020, due to the increased use of renewable energy at our plants.

#### Fraser and Neave, Limited Sustainability Report 2024

## OPERATIONAL ECO-EFFICIENCY

## Performance



## Initiatives

## **ENERGY EFFICIENCY IN OUR OPERATIONS**

Enhancing energy efficiency in our operations is both a smart business move and a way to lessen our environmental impact. F&N is committed to expanding our GHG reduction initiatives by boosting energy efficiency across our operations and supply chain.

### 1. Thailand: F&NDT - Innovative Heat Wave Radiation

We eliminated natural gas usage at one production line at our F&NDT Rojana plant by replacing our gas flame system, for sterilising steel cans, with an innovative heat wave radiation system. This was done by switching to Ultraviolet Germicidal Irradiation ("**UVGI**"), which uses Ultraviolet-C light to disinfect steel cans, instead of using gas flames, which is generated by burning natural gas at a temperature of 150°C. Regular real time reading and online control of the UVGI heatwave intensity ensures it remains at a level sufficient to effectively sterilise our steel cans, before interlocking the filling machine function and automating it. This reduced F&NDT's natural gas consumption by up to 11%, creating cost savings of about THB 7.4 million (about SGD 290,000), and resulted in around 1,250 MT CO<sub>2</sub>e GHG emissions avoided each year.

### 2. Malaysia: F&NHB – Reduced Energy Used for PET Bottle Dry Blowing

By updating our compressed air PET bottle drying process with Paxton blowers at our F&NHB Shah Alam plant, there was a reduced electricity consumption by about 228,000 kWh annually. This means an estimated cost savings of around MYR 81,000 (about SGD 23,100), and a reduction of GHG emissions by around 133 MT CO<sub>2</sub>e per year. The added benefit is that Paxton blowers also generate a lower level of noise.

## RENEWABLE ENERGY SOURCING AND GENERATION

Renewable energy sourcing and generation initiatives will be key for our progress toward our 2025 GHG emissions intensity reduction sustainability goals.

## 1. Singapore, Malaysia and Thailand: FNFS, TPL, F&NHB and F&NDT – Installation of Solar Panels

Across the Group's operations in Singapore, Malaysia and Thailand, solar panels are being progressively installed across the rooftops of plants. It is expected to reduce grid electricity usage by over 19 million kWh annually, and result in an estimated 9,700 MT CO<sub>2</sub>e GHG emissions avoided each year. Further installations have been planned at our plants in Malaysia in 2025.

### **ROUTE PLANNING**

Optimal route planning can help reduce GHG emissions. In the last few years, we have continued to streamline our distribution networks.

#### 1. Singapore, Malaysia and Thailand: FNFS, F&NHB and F&NDT – Automated Storage and Retrieval System ("ASRS")

F&N has strategically decentralised its distribution network to curtail GHG emissions. This decentralisation aligns with the Total Supply Chain Management (TSCM) principles and extends to logistics management.

One key technological advancement is the ASRS, fully operational in integrated warehouses located in plants in Singapore, Malaysia and Thailand, which has revolutionised our operations by automating processes, allowing for handling higher daily loads. As a result, forklift usage is optimised and substantially reduced, by up to 40%, saving both time and

energy by minimising trips down storage aisles. Another notable benefit of implementing the ASRS is a need for less external warehouses rentals, leading to more than 15% reduction in transportation annually, saving time and energy and contributing to reduced GHG emissions.



## LOW CARBON PRODUCT

#### 1. Thailand: F&NDT - CARNATION Extra Non-dairy Half **Creamer for Cooking and Baking**

The CARNATION Extra Non-dairy Half Creamer for Cooking and Baking (385g) is F&NDT's first low-carbon product certified by Thailand Greenhouse Gas Management Organisation ("TGO"). The product's carbon footprint of 295g CO2e successfully meets the requirements of the TGO Carbon Footprint Reduction Label scheme. F&N is working towards having more products certified by TGO under the Carbon Footprint Reduction Label scheme.

## **OPERATIONS EXPOSURE TO CLIMATE CHANGE RISKS**

The increasingly visible impacts of climate change around the globe are disrupting societies and businesses. Climate-related risks, from extreme temperatures to floods and drought,

WATER STEWARDSHIP

## **GRI Index:** GRI 303-3, GRI 303-4, GRI 303-5

have the potential to interrupt our operations and disrupt our supply chain.

#### 1. Singapore, Malaysia and Thailand: Group - Climate-**Related Risks and Opportunities Assessment**

In 2022 and 2023, we conducted inaugural climate-related risks and opportunities assessments to identify climate-related physical and transition risks and opportunities and quantify the business impact of three key physical and transition risks. This year, to gain more insight into the potential business impacts of our identified climate-related opportunities, we had continued to conduct a quantitative climate-related opportunity assessment on a key opportunity. For more details, refer to the 'TCFD and Climate Risk Management' chapter of this Report. The outcome would be integrated into the organisation's overall ERM framework and monitored, to drive strategic decisions for managing them.



Reliable supply of water and effective water management is crucial to F&N as water is used extensively in our products and operational processes. With climate change expected to intensify the severity of flooding and water scarcity in the near future, we are committed to responsible water stewardship by managing our water use to safeguard the availability of clean water for local communities in the markets we operate.

## OPERATIONAL ECO-EFFICIENCY

## Approach

Guided by the F&N ESH Policy and the principles of circular economy, F&N has organised initiatives to increase water security and reduce water consumption. Water-related risks and opportunities are identified and addressed by collaborating with relevant stakeholders to create shared value projects.

To reduce risks towards our water supply, we utilised a range of internal water assessments and have deployed action policies in all our facilities:

- F&N conducted a quantitative climate-related risks assessment to determine potential business impact of water scarcity and flooding on key sites identified with medium to high exposure to them.
- The sustainability team utilises publicly available tools such as the World Resources Institute Aqueduct and World Wildlife Fund Water Risk Filter to evaluate water-stress areas.
- F&N has an established system within all operations for systematic daily and monthly tracking and monitoring of water consumption and effluent quality.

## 2025 Target

### Performance

**GRI 303-3** Water withdrawal

See 'Performance Summary' section in this Report on pages 78 – 79

> **GRI 303-4** Water discharge

See 'Performance Summary' section in this Report on pages 80 – 81

> **GRI 303-5** Water consumption

See 'Performance Summary' section in this Report on pages 80 – 81

## Initiatives



Reduce the Group's water intensity ratio at our plants by 8% from a 2020 baseline by 2025



In FY2024, our group water intensity ratio increased by 3% because of a lower production volume at some of our plants.



## WATER STEWARDSHIP IN OUR OPERATIONS

F&N implemented various water saving initiatives to further improve our water efficiency. Our plant engineers explore closing the loop for our water systems by treating wastewater and using it for general cleaning and cooling purposes. We also collaborate with stakeholders in our value chain to develop water management strategies.

#### 1. Thailand: F&NDT – Innovative Water Recycling System

F&NDT implemented a robust water recycling system at the Rojana plant. The wastewater is treated by utilising Ultra Filtration combined with Reverse Osmosis membrane technology, to achieve drinking water quality, before channelling to the Evaporative Condenser and Cooling Tower for further use. Treated wastewater which does not meet the required quality, kept separate from good quality treated wastewater, is used for watering plants in the garden or transferred to the Rojana industrial park's wastewater treatment plant for further treatment. It is estimated to reduce water consumption by over 83,000 m3 each year, achieving annual cost savings of over THB 1.6 million (over SGD 61,600).

#### 2. Singapore: FNFS – Optimisation of Water Usage in Production Process

FNFS conducted employee education and awareness about water efficiency, and streamlined its operations, such as general cleaning, soya drinks production, Clean-In-Place, Filling and Homogeniser, by modifying equipment and systems and/or updating processes, to optimise water usage. This has resulted in an estimated over 70,000 m<sup>3</sup> reduction in water consumption each year, achieving annual cost savings of over SGD 220,000.

## **WASTE MANAGEMENT**

**GRI Index:** GRI 306-1, GRI 306-2, GRI 306-3, GRI 306-4, GRI 306-5, GRI 306-6 SDGs:



To support our commitment to shape a future devoid of waste, we adopt the circular economy approach, aiming to minimise waste and promote a sustainable use of natural resources by repurposing it as input for other processes. Proficient waste management strengthens our resource efficiency and diminishes our environmental footprint, while also allowing for potential cost savings for our business.

## Approach

Waste generation occurs at various points within the production process, spanning the supply chain and our operational activities. F&N focuses on efficient waste management by minimising and redirecting our operational waste through applying innovation and discovering opportunities to close the loop in the material cycle. We also collaborate with stakeholders along our supply chain to identify opportunities to embrace circular practices in their operations, working together to achieve resource-efficient practices.

We prioritise environmentally responsible practices for different types of waste, underscoring our commitment to sustainable waste management practices:

- Non-hazardous waste is predominantly recycled to maximise resource utilisation and minimise environmental impact. Those which cannot be recycled are directed towards power plant waste-to-energy facilities, where possible, to contribute to energy recovery and reduce waste to landfill.
- Hazardous waste, though minimal, is properly disposed by licensed waste contractors, adhering to stringent regulatory standards.

Under our ESH Policy, we promote employee awareness on responsible consumption and the importance of effective waste management across our business activities.



2025 Target



Reduce the solid waste sent to landfill (from a 2020 baseline) by 30% by 2025



In FY2024, the total solid waste sent to landfill decreased by 33% from a 2020 baseline year due to our sustainable waste management practices.

## OPERATIONAL ECO-EFFICIENCY

## Performance

## GRI 306-3 (2020) Waste generated

See 'Performance Summary' section in this Report on pages 80 to 81

#### **GRI 306-4 (2020)** Waste diverted to disposal

See 'Performance Summary' section in this Report on pages 80 to 81

### **GRI 306-5 (2020)** Waste directed to disposal

See 'Performance Summary' section in this Report on pages 82 to 83

## Initiatives

## OPTIMISING WASTE REDUCTION THROUGH INTERDEPARTMENTAL COLLABORATION

Collaborations across departments are done to enhance product demand and planning to improve product quantity forecasting precision and reduce occurrence of unsold products, ultimately, reducing waste generated. To support this initiative, strategic investments have been made in software tools to facilitate tracking of returned SKU, improve forecast predictions, and offer opportunities for continuous enhancement in demand planning. In addition, support from sales teams, through insights and feedback, is used to refine the forecasting process.

## TRANSFORMING MARKET RETURNS INTO COST-EFFECTIVE SOLUTIONS

To address the issue of waste from unrecyclable market returns, FNFS is exploring an initiative to combine these with okara and repurpose it as feed for black soldier fly larvae. Black soldier fly larvae can convert it into a by-product known as frass, which can be used to substitute or supplement commercial fertilisers in agriculture or used in poultry and aquaculture animal feed formulations. This approach is an environmentally responsible and sustainable solution that minimises disposed waste.

## PLANT MANAGEMENT - ROAD TO ZERO WASTE TO LANDFILL ("ZERO-LANDFILL")

Of our 13 factories, 5<sup>6</sup> had achieved zero-landfill. As part of this effort, F&NDT's Rojana and Wang Muang plants and F&NHB's Bentong plant had transformed non-recyclable waste into electricity at a waste-to-energy plant, successfully converting more than 310 MT of waste into over 860,000 kWh of electricity. Today, the F&NDT Rojana and Wang Muang plants have 100% of its waste being effectively managed through waste-to-energy conversion methods. Food loss and waste is a pressing global concern that significantly impact the pursuit of sustainable development goals, with approximately one-third of food produced worldwide either lost or wasted. It causes critical issues, such as food shortages, water stress, biodiversity depletion, and the exacerbation of GHG emissions, thereby underscoring the urgency of addressing this multifaceted challenge.

 $\ensuremath{\mathsf{F}\&\mathsf{N}}\xspace$  as prices to minimise food loss and wastage in our entire value chain through

- Reducing our production waste to landfill by 30% by 2025; and
- Collaborating with our business partners to reduce food loss and waste.

F&NHB established a food loss and waste management framework, drawing inspiration from the Food and Drink Material Hierarchy provided by the United Nations' Food and Agriculture Organisation. They actively engage upstream and downstream partners to explore creative solutions aimed at reducing food loss and redirecting food waste throughout their value chain by prevention, optimisation, recycling, and recovery initiatives.

Raw Materials Upstream	<ul> <li>Work closely with suppliers to ensure raw materials are of set standards and quality.</li> <li>Track, measure and monitor any losses of raw materials on monthly basis to reduce food loss.</li> </ul>
Production Processes Within Our Plants	<ul> <li>Track, measure and monitor manufacturing processes.</li> <li>Improve food loss management by identifying key categories and waste streams.</li> <li>Reduce impact from operations by complying with, and going beyond, relevant regulations.</li> </ul>
Collaboration with Partners	• Team up with partners to look for innovative programmes/initiatives to reduce food lose or reuse food lose for alternative usage.
Managing Food Surplus Downstream	<ul> <li>Regularly track, measure and monitor any food surpluses in retail.</li> <li>Channel surplus food to organisations and communities.</li> </ul>

Various initiatives have been implemented by F&NHB, including collaborating with partners to re-use food loss, such as transforming sludge into fertilisers, and channeling surplus food to charitable organisations, such as the Yayasan Food Bank Malaysia, Yayasan Bursa Malaysia and The Lost Food Project, to benefit the communities in need.

## VALUE CHAIN IMPACTS

Our products have implications that go beyond our immediate operations. Raw materials and ingredients sourced for our products and packaging are all part of our business impact. Packaging and biodiversity are therefore considered material issues to F&N. We strive to mitigate these impacts throughout our value chain by enhancing packaging practices and responsibly sourcing raw materials.

PACKAGING

**GRI Index:** GRI 301-1, GRI 301-2 More information can be found in the following sections: • Packaging

Biodiversity



Sourcing unsustainable packaging materials and improper handling of post-consumer packaging have emerged as significant societal concerns. In regions where we operate, governments introduced environmental policies aimed at encouraging companies to reconsider their packaging production methods. Examples include Thailand's 'Roadmap on Plastic Waste Management', and Malaysia's 'Roadmap towards Zero Single-Use Plastics'. Rethinking packaging enables F&N to support current and future policies of respective governments, and address consumers and stakeholders' concerns. We explore sustainable packaging solutions, focusing on design and materials that allow recyclability and promote circularity.

## Approach

F&N develops packaging solutions by investing in innovation, integrating principles of circular economy, and working closely with stakeholders, while making sure to keep our packaging designs environmentally friendly.

F&N's packaging approach is centred around several key objectives:

- · Reducing amount of materials used in our packaging
- Increasing use of sustainable packaging materials
- Designing packaging to be recyclable

F&N actively works to find solutions to manage post-consumer packaging. We have partnered other organisations to close the loop and also seek to work with new suppliers that meet our sustainable packaging materials requirements.

F&N develops packaging solutions by investing in innovation, integrating principles of circular economy, and working closely with stakeholders, while making sure to keep our packaging designs environmentally friendly.



Over 1.7 million MT of materials used

Note:

1. Materials are sourced from external suppliers 2. Data are sourced from direct measurements

> **GRI 301-2** Recycled input materials used

About 25% of recycled input materials used

## VALUE CHAIN IMPACTS

Initiatives

## SUSTAINABLE PACKAGING SOLUTIONS WITH GREEN LAB

Combining Times Printers and Print Lab's expertise and resources, the sustainable packaging business was officially launched under the brand Green Lab in May 2022. Green Lab offers customers sustainable packaging solutions printed with environmentally friendly soy-based printing ink and aims to be Singapore's one-stop eco-solutions provider for business and services alike, supporting them in their quest to meet their ESG objectives.

One example was a key partnership which was signed between Green Lab and Ninja Van Singapore, witnessed by Dr Amy Khor, Senior Minister of State at the Ministry of Sustainability and the Environment. By combining Green Lab's eco-friendly packaging with Ninja Van's logistics expertise, this collaboration streamlines logistics, enhances efficiency and supports merchants' sustainability goals, reducing carbon footprint, waste and environmental impact.

#### Partnerships to encourage circular economy

Since 2019, F&N spearheaded a joint initiative with the NEA of Singapore to introduce 50 Reverse Vending Machines ("**RVMs**") across Singapore. The initiative aimed to provide easily available avenues for consumers to deposit selected used plastic bottles and aluminium cans, to encourage

a habit of recycling. This supports the national vision of the Sustainable Singapore Blueprint's goal to increase the national recycling rate to 70% by 2030. As of September 2024, more than 16.5 million aluminium cans and PET bottles have been collected and passed on to recycling facilities.

F&NHB partnered with industry leaders KLEAN, GRAB and Malaysian Research Accelerator for Technology and Innovation, in a pilot project running for nine months, to launch 18 Artificial Intelligence-driven RVMs in strategic locations across the Klang Valley in Malaysia. Each fully operational RVM can also accept plastic food containers, in addition to aluminium cans and PET bottles, for recycling. A certified recycling processor would then collect and recycle the collected packaging into raw materials, such as plastic pallets/flakes, giving them a second life by reusing them in new products, including apparels, furniture fillings and plastic furniture/boxes.

F&N is also part of a consortium, licensed by the NEA of Singapore, BCRS Ltd, tasked with designing and operating Singapore's BCRS, scheduled to launch in April 2026. This scheme aims to Increase recycling rate of beverage containers and reduce amount of disposed waste and GHG emissions in Singapore, while raising Singapore consumers' awareness on importance of recycling and encouraging good recycling practices amongst them.



## BIODIVERSITY

GRI Index: GRI 304-1



SDG:

A thriving biodiversity, coupled with healthy ecosystems, offers an array of essential benefits to humanity. These encompass the provision of nutrition, habitat, medicinal resources, and even energy sources. The well-being and livelihoods of billions<sup>7</sup> of people are intricately linked to the prosperity of biodiverse ecosystems.

In recent decades, acceleration in biodiversity loss and ecosystem deterioration was largely driven by overexploitation of resources. Combined with escalating impacts of climate

Approach

Our subsidiary, F&NHB, leads the conversation on biodiversity with internal and external stakeholders to develop a direction in biodiversity management. The commitments made in the F&NHB Biodiversity Statement serves as a foundation for their biodiversity initiatives:

- Avoid deforestation in our supply chain.
- Avoid operating and developing in close proximity to nationally, or internationally recognised areas of high biodiversity value, including World Heritage areas, International Union for Conservation of Nature (IUCN) Category I-IV protected areas, RAMSAR Sites and key biodiversity areas.

 In any circumstance where our production sites or a proposed project is located within, or depend upon, areas of high biodiversity value, we will apply the following mitigation hierarchy:

- a. **Avoidance** Avoid operating and developing in areas of high biodiversity value.
- b. **Minimisation** Implement measures/initiatives to monitor and minimise impacts on biodiversity from our operations.
- c. **Restoring** Seek to restore/rehabilitate areas where impacts cannot be prevented.
- d. **Offset** Consider biodiversity compensation/offsets measures, where there is residual impact

 In managing potential biodiversity risk, we will engage necessary stakeholders, including local authorities and the communities nearby, and ensure appropriate mitigation strategy is developed to minimise impacts to as low as reasonably possible.

This statement is applicable to all current and future F&NHB operational sites.

change, rising demand for resources, and rapid technological advancements, biodiverse ecosystems preservation faces mounting challenges.

At F&N, our operations rely on the natural environment for essential raw materials, such as palm oil, sugar, and paper. Recognising that a decline in biodiverse ecosystems directly impacts our business, we are committed to expanding our efforts beyond sustainable sourcing, and work with our suppliers to safeguard biodiversity in the regions where we operate.

Initiatives

F&N sources for sustainable palm oil in a bid to contribute to conservation of the ecosystem. As an ordinary member of RSPO, we abide by the RSPO Principles and Criteria 2018 and are committed to sourcing for traceable palm oil that is free from deforestation and conversion through suppliers with a no deforestation, no conversion policy.

We engage our palm oil suppliers to ensure palm oil sourced from them is RSPO certified, sustainable and traceable. Our current palm oil suppliers have *No Deforestation, No Peat, No Exploitation Policies* which they disclose on their websites.



Performance

## GRI 304-1

Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas.

None of our operational sites are in or adjacent to protected areas and areas of high biodiversity value outside protected areas.

7 IPBES (2022). Summary for Policymakers of the Thematic Assessment Report on the Sustainable Use of Wild Species of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. Fromentin, J.M., Emery, M.R., Donaldson, J., Danner, M.C., Hallosserie, A., Kieling, D., Balachander, G., Barron, E.S., Chaudhary, R.P., Gasalla, M., Halmy, M., Hicks, C., Park, M.S., Parlee, B., Rice, J., Ticktin, T., and Tittensor, D. (eds.). IPBES secretariat, Bonn, Germany. https://doi.org/10.5281/zenodo.6425599