

COMPARISON: EFRAG DRAFT ESRS AND EUROPEAN COMMISSION'S DRAFT DELEGATED ACT (DA) – ESRS E4 BIODIVERSITY AND ECOSYSTEMS

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DISCLAIMER

This paper below contains the EFRAG draft ESRS E4 Biodiversity and Ecosystems which has been modified in track changes to match the version the EC proposed in the DA.

This document does not represent Accountancy Europe's views or analysis of these changes. It is a comparison run automatically by IT tools (including WordCompare) available to us. It is an Accountancy Europe's working document in view of preparing our feedback to their EC draft delegated act with the first set of European Sustainability Reporting Standards (ESRS).

Accountancy Europe makes this document available to help other stakeholders understand the detailed changes of the standards and help them in their own feedbacks to the European Commission.

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<u>IDraft</u> ESRS E4</u> BIODIVERSITY AND ECOSYSTEMS

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Objective

- 1. The objective of this [draft] Standard is to specify Disclosure Requirements which will enable users of the *sustainability* statements <u>statement</u> to understand:
 - how the undertaking affects *biodiversity* and *ecosystems*, in terms of material positive and negative, actual and potential impacts, <u>including the extent to</u> which it contributes to the drivers of biodiversity and ecosystem loss and <u>degradation</u>;
 - (b) any *actions* taken, and the result of such actions, to prevent or mitigate material negative actual or potential impacts and to protect and restore biodiversity and address risks and opportunities; and
 - (c) the plans and capacity of the undertaking to adapt its strategy and business model(s) in line with (i) respecting the planetary boundaries of the related to biosphere integrity and land-system change¹, [(change, (ii) targets outlined in the Post-2020the vision of the Kunming-Montreal Global Biodiversity Framework² of no net loss by 2030, net gain from 2030Framework and full recovery by its relevant goals and targets, (iii) relevant aspects of 2050,] the EU Biodiversity Strategy for 2030³ with the targets set under 2030⁵³, iv) the EU Nature Restoration Plan⁴ and Enabling Transformative Change⁵Birds and comparable amended or new frameworksHabitats Directives⁵⁴, and strategiesv) the Marine Strategy Framework Directive⁵⁵;
 - (d) the nature, type and extent of the undertaking's material risks-, <u>dependencies</u> and opportunities related to <u>the undertaking's impacts or dependencies on</u> biodiversity and ecosystems, and how the undertaking manages them; and
 - (e) the *financial effects* on the undertaking over the short-, medium- and longterm time horizons of material risks and opportunities arising from the undertaking's impacts and dependencies on biodiversity and ecosystems.
- 2. This [draft] Standard sets out Disclosure Requirements related to the undertaking's relationship to terrestrial, *freshwater* and marine *habitats, ecosystems* and populations of related fauna and flora species, including diversity within species, between species and of ecosystems and their interrelation with *indigenous peoples* and <u>other</u> affected communities.
- 3. The sustainability matter <u>'terms</u> <u>"biodiversity</u>" and <u>"biological</u> diversity' covers<u>diversity</u>" refer to the variability among living organisms from all sources including, inter alia, terrestrial, *freshwater*, marine and other aquatic ecosystems and the ecological complexes of which they are part. An environmental limit usually interpreted as the point or range of conditions beyond which there is a significantrisk of abrupt irreversible, or difficult to reverse, changes to the benefits derived from natural resource systems with impacts on human well-being (e.g., planetary boundaries).

Interaction with other ESRS

- <u>4.</u> '*Biodiversity* and *ecosystems*' is a topic across are closely connected to other environmental matters. The main <u>direct</u> drivers of biodiversity and ecosystems change are climate change, *pollution*,
- Iand-use and sea- use change, direct exploitation and invasive alien species⁸ according to the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), are sustainability matters covered in other [draft] topical Standards.

These environmental sustainability matters are: climate change, pollution, land-use, *freshwater*-use <u>change</u> and sea-use change, direct exploitation <u>of organisms</u> and invasive alien species. <u>These drivers are covered in this standard, except for climate change (covered by ESRS E1) and pollution (covered by ESRS E2).</u>

5. <u>As a general remark and toTo</u> obtain an encompassing a comprehensive understanding of material *impacts* and *dependencies* on <u>Biodiversity</u>



biodiversity and ecosystems, the Disclosure Requirements of other

⁵³ EU Biodiversity Strategy for 2030- Bringing nature back into our lives, COM/2020/380 final

⁵⁴ Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds, and Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora

^{1—}https://www.stockholmresilience.org/research/planetary-boundaries/the-nine-planetary-boundaries.html.

² The Post 2020 Global Biodiversity Framework is designed by the Secretariat of the UN Convention on Biological Diversity (CBD) to guide actions worldwide through 2030, to preserve and protect nature and its essential services to people: https://www.cbd.int/article/draft-1-global-biodiversity-framework.

³⁻The EU Biodiversity Strategy for 2030: https://ec.europa.eu/environment/strategy/biodiversity-strategy-2030_en.

4-https://dopa.jrc.ec.europa.eu/kcbd/dashboard/#EU%20NATURE%20RESTORATION%20PLAN

⁵ https://dopa.jrc.ec.europa.eu/kcbd/dashboard/#ENABLING%20TRANSFORMATIVE%20CHANGE

⁶ Convention on Biological Diversity (CBD, 1992)

7 Kunming Declaration, Declaration from the High-Level Segment of the UN Biodiversity, Conference 2020 (Part 1) under the theme: "Ecological Civilization: Building a Shared Future for All Life on Earth"

⁸-Direct drivers of biodiversity loss: https://ipbes.net/models-drivers-biodiversity-ecosystem-change.



⁵⁵ Directive 2008/56/EC

[draft] environmental ESRS should be read and interpreted in conjunction with the specific disclosure requirements of this Standard. The relevant disclosure requirements of this [draft] Standard. All Disclosure Requirements concerning material impacts related to biodiversity and ecosystems change arising from covered in other [draft]environmental ESRS are listed and referenced in this [draft]Standard, and in particular to:

- (a) [draft] ESRS E1 *Climate change*, which addresses in particular GHG *emissions* and energy resources (energy consumption);
- (b) [draft] ESRS E2 Pollution, which addresses pollution to air, water and soil;
- (b)(c) ESRS E3 Water and marine resources which addresses in particular water resources (water consumption) and water marine resources;
- (c)(d) [draft] ESRS E5 Resource use and circular economy addresses in particular the transition away from extraction of non-renewable resources and the implementation of practices that prevent waste generation, including pollution generated by waste.
- 4.<u>6.</u> This [draft] Standard covers an environmental topic, however as people benefit from biodiversity and ecosystems, the <u>The</u> undertaking's impacts on *biodiversity* and ecosystems affect people and communities. When reporting on material negative impacts on *affected communities* from biodiversity and ecosystem <u>losschange</u> under [draft] ESRS E4, the undertaking shall consider the requirements of [draft] ESRSS3 Affected communities.
- 5.7. This [draft] Standard should be read in conjunction with [draft] ESRS 1 General requirements and [draft] ESRS2 General disclosures.

Disclosure Requirements

ESRS 2 General disclosures

- 6.8. The requirements of this section shall be read in conjunction with the disclosures required by [draft]-ESRS 2-on Chapter 2 Governance, Chapter 3 Strategy and Chapter 4 Impact, risk and opportunity management.
- 7.9. The resulting disclosures shall be presented alongside the disclosures required by [draft] ESRS 2, except for [draft] ESRS 2 SBM-3, for which the undertaking has an option to present the disclosures alongside the topical disclosures.
- 8.10. In addition to the requirements in [draft] ESRS 2, this [draft] Standard also includes the topic specific Disclosure Requirement E4-1 *Transition plan on and consideration of biodiversity and ecosystems in strategy and business model*.

Strategy

Disclosure Requirement E4-1 – Transition plan on-and consideration of biodiversity and ecosystems in strategy and business model

- 9.11. The undertaking shall disclose <u>how</u> its <u>plan to ensure that its business</u> model<u>biodiversity</u> and <u>strategy are compatible</u> with the respect of planetary boundaries of the biosphere integrity<u>ecosystem impacts</u>, <u>dependencies</u>, <u>risks</u> and <u>land-system change</u> and <u>relevant targets</u> outlined in [the Post-2020 Global Biodiversity Framework of no net loss by 2030, net gain<u>opportunities originate</u> from 2030, full recovery by 2050, <u>and trigger adaptation of its strategy</u> and the EU Biodiversity Strategy for 2030business model.
- 10.12. The objective of this Disclosure Requirement is to enable an understanding of the resilience of the undertaking's strategy and business model in relation to *biodiversity* and *ecosystems*, and of the compatibility of the transition plan of the undertakingundertaking's strategy and business model with regard to relevant local,



national and global ecological thresholds and boundaries as well as public policy targets related to biodiversity and ecosystems.

- 2. Based on the list of priority sectors provided by the Taskforce on Nature-related Financial Disclosures (TNFD)⁹, this Disclosure Requirement is mandatory for undertakings in the following industries Agriculture and Farming Forestry, Construction and Engineering, Oil and Gas from Midstream and Downstream, Energy Production and Utilities, Water and Waste Services, Food and Beverages, Paper and Wood Products, Building materials, Chemical products, Coal Mining, Mining, Oil and Gas Upstream and Services, Pharma and biotechnology, Textiles, Accessories, Footwear and Jewelleries, Tobacco, and Transportation
- 3. When disclosing its transition plan, the undertaking shall:
 - (a) provide a high-level explanation on how it will adjust its strategy and business model to ensure that they are compatible with:
 - i. respecting planetary boundaries on the biosphere integrity and land-system change¹⁰;
 - ii. [the targets outlined in the Post-2020 Global Biodiversity Framework of no net loss by 2030, net gain from 2030 and fully recovery by 2050;] and
 - iii. The relevant targets as part of the EU Biodiversity Strategy for 2030 concerning the EU Nature Restoration Plan and Enabling Transformative Change.
 - (b) Include own operations and explain how it is responding to material impacts across its related value chain identified in its materiality assessment as per [draft] ESRS 2 IRO 1 Description of the processes to identify and assess material impacts, risks and opportunities;
 - (c) explain how its business development strategy interacts with the achievability of its transition plan;
 - (d) highlight its contribution to impact drivers and its possible mitigation actions following the mitigation hierarchy and the main path-explain whether or not biodiversity offsets are part of the transition plan. And if so,where the offsets are planned to be used, the extent of use in relation to the overall transition plan, and whether the mitigation hierarchy was considered;
 - (c) indicate whether the administrative, management and supervisory bodies have approved the transition plan;
 - (f) provide information on how the process of implementing and updating the transition plan is managed;
 - (g) indicate its metrics and related tools used to measure progress that are integrated in this measurement approach; and
 - (h) indicate current challenges and limitations to draft a plan in relation to areas of significant impact and actions the company is taking to address them.
- 4. Where applicable, this disclosure shall refer to and contextualise information presented under other Disclosure Requirements of this [draft] Standard.
- 5. In case the undertaking does not have a transition plan in place, it shall provide an explanation of its biodiversity and ecosystems-related ambition and whether and when it will adopt a transition plan.

Disclosure Requirement related to [draft] ESRS 2 SBM-3 – Material impacts, risksand opportunities and their interaction with strategy and business model(s)

<u>13.</u> The undertaking shall describe the resilience of its strategy and business model(s) in relation to

biodiversity and ecosystems. The description shall include:



(a) an assessment of the resilience of the current business model(s) and strategy to

biodiversity and ecosystems-related physical, transition and systemic risks as wellas opportunities;

- (a) the scope of the resilience analysis, (i) along in relation to the <u>undertaking's</u> own operations and <u>related upstream and downstreamits</u> value chain and (ii) the material transition and physicalbiodiversity and ecosystems related in relation to the risks covered considered in that analysis;
- (b) the key assumptions made;
- (c) the time horizons used for the analysis;
- (d) the results of the resilience analysis; and
- (e) the involvement of stakeholders, including, where appropriate, holders of indigenousand local knowledge.
- 14. If information specified in this disclosure requirement is disclosed by the undertaking as part of the information required under ESRS 2 SBM-3, the undertaking may refer to the information it has disclosed under ESRS 2 SBM-3.
- 15. The undertaking may disclose its *transition plan* to improve and, ultimately, achieve alignment of its business model and strategy with the vision of the Kunming-Montreal Global Biodiversity Framework and its relevant goals and targets, the EU Biodiversity Strategy for 2030, and with respecting *planetary boundaries* related to biosphere integrity and land system change.

¹⁰ A description of the nine planetary boundaries can be found here: https://www.stockholmresilience.org/research/planetary-boundaries/the-nine-planetary-boundaries.html.



Impact. risk and opportunity management

Disclosure Requirement related to ESRS 2 IRO-1 Description of processes to identify and assess material biodiversity and ecosystem-related impacts, risks, dependencies and opportunities

- 11.16. The undertaking shall describe theits process to identify material impacts, risks, dependencies and opportunities. The description of the process shall include whether and how the undertaking:
 - (a) identified and assessed actual and potential impacts on *biodiversity* and *ecosystems* at own *site* locations and in the value chain, including assessment criteria applied;
 - (b) identified and assessed *dependencies* on biodiversity and ecosystems and their services at own site locations and in the value chain, including assessment criteria applied, and, if this assessment includes *ecosystem services* that are disrupted or likely to be;
 - (c) identified and assessed *transition* and *physical risks* and opportunities related to biodiversity and ecosystems, including assessment criteria applied based on its impacts and dependencies;
 - (d) considered systemic risks to:;
 - i. its own business model; and
 - ii. society as a whole in its assessment of biodiversity and ecosystems-relatedrisks.
 - (e) conducted consultations with *affected communities* on sustainability assessments of shared biological resources and *ecosystems* and, in particular:
 - when a site, a *raw material* production or sourcing is likely to negatively impact biodiversity and ecosystems, the identification of the specific sites, raw materials production or sourcing with negative or <u>potentialpotentially</u> negative impacts on affected communities;
 - ii. when affected communities are likely to be impacted, the undertaking, shall disclose how these communities were involved in the *materiality* assessment; and
 - iii. with respect to impacts on priority *ecosystem services* of relevance to affected communities in its own operations, the undertaking shall indicate how negative impacts may be avoided. If these impacts are unavoidable, the undertaking may indicate its plans to minimise them and implement mitigation measures that aim to maintain the value and functionality of priority services.

The undertaking shallmay disclose whether the business model(s) and how it has been verified using a range of used biodiversity and ecosystems scenario analysis to inform the identification and assessment of material risks to and opportunities over short-, mediumand long-term time horizons. If the undertaking has used such scenario analysis, it may disclose the following information on the scenarios:

- (a) why the considered *scenarios* were taken into considerationselected;
- (b) how the considered scenarios are updated according to evolving conditions and emerging trends; orand
- (c) whether the scenarios are informed by expectations inpublished by authoritative intergovernmental instrumentsbodies, such as the Convention for Biological Diversity and, whererelevant, by scientific consensus, that is, in the case of biodiversity and ecosystem services, such as that expressed by the Intergovernmental Science-policy Platform on Biodiversity and Ecosystem Services (IPBES-).
- <u>12.17.</u> The undertaking shall specifically disclose:
 - (b) the definition of the time horizons used for the analysis;



(c) whether and how it has used scenario analysis in the assessment process;

- (a) whether or not it has *sites* located in or near *biodiversity-sensitive areas* and whether activities related to these sites negatively affect these areas:
 - i. by leading to the deterioration of natural *habitats* and the habitats of species and to the disturbance of the species for which a *protected area* has been designated; and
 - ii. where conclusions or necessary mitigation measures identified by any of the following assessments have not been implemented or are ongoing accordingly (Directive 2009/147/EC of the European Parliament and of the Council on the conservation of wild birds; Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora; an Environmental Impact Assessment (EIA) as defined in Article 1(2), point (g), of Directive 2011/92/EU of the European Parliament and of the Council on the assessment of the effects of certain public and private projects on the environment; and for activities located in third countries, in accordance with equivalent national provisions or international standards, such as the International Finance Corporation (IFC) Performance Standard 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources.
- (b) a list of material **sites** based on the results of paragraph 22 (c<u>17</u> (a). The undertakingshall disclose these locations by:
 - i. specifying the activities negatively affecting these areas⁵⁶;
 - ii. providing a breakdown of sites according to the impacts and *dependencies* identified, and to the ecological status of the areas (with reference to the specific ecosystem baseline level) where they are located; and
 - specifying the *biodiversity-sensitive areas* impacted, as defined inparagraph 22-cinparagraph 17(a) if for users to be able to determine the location and the responsible competent authority with regards to the activities specified in paragraph_22(d) i.17(b) i.
- (c) whether it has identified material negative impacts with regards to *land degradation*, *desertification* or *soil sealing*⁵⁷; and
- (d) ¹³whether it has operations that affect *threatened species*⁵⁸.

Impact, risk and opportunity management

Disclosure Requirement E4-2 – Policies related to biodiversity and ecosystems

- The undertaking shall <u>disclosedescribe</u> its policies <u>implemented</u> to <u>manageaddress the</u> <u>management of</u> its material impacts, risks, <u>dependencies</u>, and opportunities related to biodiversity and ecosystems.
- 2. The objective of this Disclosure Requirement is to enable an understanding of the extent to which the undertaking has implemented policies that address the identification, assessment, management and/or remediation of its material biodiversity and ecosystem- related impacts, dependencies, risks and opportunities, and how they are connected to and in alignment with the Post-2020 Global Biodiversity Framework and the EU Biodiversity Strategy for 2030.



⁵⁶ This information supports the information needs of financial markets participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impacts as set out by indicator #7 in Table 1 Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments (respectively "Activities negatively affecting biodiversity-sensitive areas").
⁴⁴⁵⁷ This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impact as set out by indicator #10 in Table 2 of Annex 1 of the related Delegated Regulated must regard to disclosure rules on sustainable investments (respectively "("Land degradation, desertification, soil sealing").
⁵⁶ This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impact as set out by indicator #10 in Table 2 of Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments (respectively "("Land degradation, desertification, soil sealing").
⁵⁶ This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impact as set out by indicator #14 in Table 2 of Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments ("Natural species and protected areas").

- 3. _The summarised description of the policydisclosure required by paragraph 18 shall contain the information required on the *policies* the undertaking has in [draft] ESRS 2 DCplace to manage its material *impacts, risks, dependencies* and *opportunities* related to *biodiversity* and *ecosystems* in accordance with ESRS 2 MDR-P Policies adopted to manage material sustainability matters-).
- 4. In addition to the provisions of [draft]-ESRS 2 DCMDR-P the undertaking shall describe whether and how its *biodiversity* and *ecosystems*-related *policies*:
 - (d) are connected to and in alignment with the Post-2020 Global Biodiversity framework as well as the EU Biodiversity Strategy for 2030 and other relevant EUand national policies and legislation related to biodiversity and ecosystems. The undertaking may use a cross-reference to the information provided under Disclosure Requirement ESRS E4-1;
 - (a) relate to the matters specified in ESRS E4 Application Requirement 4;
 - (b) relate to its material biodiversity and ecosystems-related impacts;
 - (c) relate to material dependencies and material physical and transition risks and opportunities;
 - (d) support traceability of products, components and raw materials with significant actual or potential impacts on biodiversity and ecosystems along the *value chain*;
 - (e) address production, sourcing or consumption from ecosystems that are managed to maintain or enhance conditions for biodiversity, as demonstrated by regular monitoring and reporting of biodiversity status and gains or losses; and
 - (f) address social consequences of biodiversity and ecosystems-related impacts.
- 5. The undertaking shall specifically disclose, whether it has adopted:
 - (g) a-biodiversity and ecosystem protection policy covering operational sites owned, leased, or managed in or near a protected area or a biodiversity sensitive an area of high biodiversity-value outside protected areas, where an area of high biodiversity value outside protected areas refers to land with high biodiversity value refers to as defined in Article 7b (3) of Directive 98/70/EC of the European Parliament and of the Council and where "protected area" in this specific case means an area designated areas in the European Environment Agency's Common Database on Designated Areas (CDDA); and in the Natura 2000 network of protected areas set up in accordance with Directives 2009/147/EC and 92/43/EEC⁵⁹;
 - (h) sustainable land / agriculture practices or policies⁶⁰;
 - i) ⁴⁵ sustainable oceans / seas practices or policies⁶¹; and
 - (j) policies to address *deforestation*⁶².



⁵⁹ This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impact as set out by indicator #14 in Table 2 of Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments (respectively "("Natural species and protected areas").

¹⁶⁶⁰ This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impact as set out by indicator #11 in Table 2 of Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments (respectively "Investments in companies without sustainable land/agriculture practices").

⁶¹ This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impact as set out by indicator #12 in Table 2 of Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments ("Investments in companies without sustainable oceans/seas practices").

⁶² This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as

Disclosure Requirement E4-3 – Actions and resources related to biodiversity and ecosystems

- 6. The undertaking shall disclose its biodiversity and ecosystems-related actions and the and the resources allocated to their implementation.
- 7. The objective of this Disclosure Requirement is to enable an understanding of the key actions taken and planned that significantly contribute to the achievement of biodiversity and ecosystems-related policy objectives and targets.
- 8. The description of key action *actions* and resources shall follow the mandatory content defined in [draft] ESRS 2 DCMDR-A Actions and resources in relation to material sustainability matters.
- 9. In addition, the undertaking shall:
 - disclose to which layer inhow it has applied the mitigation hierarchy a key action can be allocated:with regard to its actions (avoidance, reduction and minimisation, restoration and /rehabilitation; and compensation or offsets);
 - (b) disclose whether it used **biodiversity** offsets in its action plans. If the **actions** contain biodiversity offsets, the undertaking shall include the following information:
 - i. the aim of the offset and key performance indicators used;
 - ii. the financing effects (direct and indirect costs) of biodiversity offsets inmonetary terms; and;
 - iii. a description of offsets including area, type, the quality criteria applied and thestandards that the biodiversity offsets <u>fulfilcomply with</u>;
 - (b)(c) describe <u>whether and how it has incorporated local</u> and indigenous knowledge and nature-based solutions into biodiversity and **ecosystems**-related actions;
 - (e) provide the following details for key actions:
 - a list of key stakeholders involved (e.g., competitors, suppliers, retailers, other business partners, affected communities and authorities, government agencies) and how they are involved, mentioning key stakeholders negatively or positively impacted by actions and how they are impacted, including impacts or benefits created for affected communities, smallholders' indigenous groups or other vulnerable groups;
 - ii. where applicable, an explanation on the need for appropriate consultations and the need to respect the decisions of affected communities;
 - iii. a brief assessment whether the key actions may induce significant negative sustainability impacts;
 - iv. an explanation whether the key action is intended to be a one-time initiative or systematic practice; and
 - v. an explanation on whether the key action plan is carried out only by the undertaking, using the undertaking's resources, or whether it is part of a wider action plan, of which the undertaking is a member. The undertaking shall then provide more information on the project, its sponsors and other participants.



¹⁷ This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impact as set out by indicator #12 in Table 2 of Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments (respectively "Investments in companies without sustainable oceans/seas practices").

¹⁸ This information supports the information needs of financial market participants subject to Regulation (EU) 2019/2088 as reflecting an additional indicator related to principal adverse impact as set out by indicator #15 in Table 2 of Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments (respectively "Deforestation").

Metrics and targets

Disclosure Requirement E4-4 – Targets related to biodiversity and ecosystems

- 10. The undertaking shall describedisclose the biodiversity and ecosystem-related targets it has adopted set.
- 11. The objective of this Disclosure Requirement is to allow an understanding of the *targets* the undertaking has adopted to support its *biodiversity* and *ecosystems policies* and address its material related *impacts*, *dependencies*, *risks* and *opportunities*.
- 12. The description of the *targets* shall follow the mandatory content defined in [draft]-ESRS 2 DCMDR-T

Tracking effectiveness of policies and actions through targets.

<u>12.13.</u> The disclosure required by paragraph <u>3227</u> shall include the following information:

(f) whether the undertaking has set targets related to material aspects specified in paragraph AR 4 of this [draft] Standard;

- (g) whether the target has set dates and milestones;
- (a) whether ecological thresholds and allocations of impacts to the undertaking were applied when setting targets. This enables users to understand whether the targetset by the undertaking is based on conclusive scientific evidence. If so, the undertaking shall specify:
 - i. how responsibility for respecting identified ecological thresholds is allocated in the undertaking.
- (b) whether the targets are informed by, and <u>/-/or aligned with the Post-2020Kunming-Montreal</u> Global Biodiversity Framework, <u>relevant aspects of</u> the EU Biodiversity Strategy for 2030 and other *biodiversity* and *ecosystem*-related national *policies* and legislation as well as authoritative intergovernmental instruments like the IPBES;
- (c) how the targets relate to the biodiversity and ecosystem impacts, dependencies, risks and opportunities identified by the undertaking in relation to its operations and value chain;
- (d) the geographical scope of the targets, if relevant;
- (c)(e) whether or not the undertaking used biodiversity offsets in setting its targets as described in paragraph <u>3126</u> (b); and
- (d)(f) to which of the layers of the mitigation hierarchy the target can be allocated (i.e., avoidance, minimisation, restoration and rehabilitation, compensation or offsets).
- 14. The undertaking may disclose whether ecological thresholds and allocations of impacts to the undertaking were applied when setting targets. If so, the undertaking may specify:
 - the ecological thresholds identified and the methodology used to identify such thresholds;
 - (b) whether or not the thresholds are entity-specific and if so, how they were determined; and
 - (c) how responsibility for respecting identified ecological thresholds is allocated in the undertaking.

reflecting an additional indicator related to principal adverse impact as set out by indicator #15 in Table 2 of Annex 1 of the related Delegated Regulation with regard to disclosure rules on sustainable investments ("Deforestation").



- <u>13.15.</u> The undertaking shall report metrics related to its material impacts resulting inon biodiversity and ecosystems.
- 14.<u>16.</u> The objective of this Disclosure Requirement is to enable an understanding of the performance of the undertaking against impacts identified as material in the *materiality* assessment on *biodiversity* and *ecosystems* change.
- 15.17. If the undertaking identified sites located in or near biodiversity-sensitive areas that it is negatively affecting¹⁹ (see paragraph 22(c)),affecting(see paragraph17(a)), the undertaking shall disclose the number and area(in hectares) of sites owned, leased or managed in or near these protected areas or key biodiversity areas.
- 16.18. If the undertaking operates in one of the sectors for which Disclosure Requirement E4-1 is applicable and has identified material impacts with regards to land-use change, or impacts on the extent and condition of **ecosystems**, the undertaking shall<u>it may</u> also disclose their land-use based on a Life Cycle Assessment.

6. Performance measures on biodiversity and ecosystems are currently the object of much ongoing collective work at the time of the drafting of this [draft] Standard. That is why theDisclosure Requirements proposed in this [draft] Standard are mostly principles-based to clarify the categories of performance measures expected, as well as laying out the features of quality biodiversity and ecosystems-related measures rather than proposing specific measures per se. Wherever possible, the application requirements refer to examples of commonly used metrics and tools in the public domain to allow application of the different categories of measures required under this Disclosure Requirement. The undertaking may refer specifically to the recommendations provided by Aligning Accounting Approaches for Nature (Align)²⁰.

- <u>17.19.</u> For datapoints specified in <u>paragraphs 42paragraphs37</u> to <u>4540</u>, the undertaking shall consider its ownoperations.
- 18.20. If the undertaking has concluded that it directly contributes to the *impact drivers* of *land-use change*, *freshwater*-use change and <u>//</u>or sea-use change, <u>the undertaking-it</u> shall <u>report relevant</u> <u>metrics</u> <u>considering</u>. The <u>undertaking may disclose metrics that measure</u>:
 - the conversion over time (e.g., one or five years) of land cover (e.g., deforestation or mining);
 - (b) changes over time (e.g., one or five years) in the management of the ecosystem (e.g., through the intensification of agricultural management, or the application of better management practices or forestry harvesting);
 - (c) changes in the spatial configuration of the landscape (e.g., fragmentation of **habitats**, changes in ecosystem connectivity);
 - (d) changes in ecosystem structural connectivity (e.g., habitat permeability based on physical features and arrangements of habitat patches); and
 - (e) the functional connectivity (e.g., how well genes, gametes, propagules or individuals move through land, freshwater and seascape).
- 19.21. If the undertaking concluded that it directly contributes to the impact drivers of accidental or voluntary introduction of invasive alien species, the undertaking shallmay disclose howthe metrics it managesuses to manage pathways of introduction and spread of invasive alien species and the risks posed by invasive alien species.
- 20.22. If the undertaking identified material impacts related to the state of species, the undertaking shallmay report *metrics* it considers relevant-and. The undertaking may:
 - (a) <u>may be referredrefer</u> to <u>relevant disclosure requirements</u> in [draft] ESRS E1, [draft] ESRS E2, [draft] ESRS E3, and [draft] ESRS E5;
 - (b) consider population size, range within specific ecosystems as well as extinction risk²¹risk⁶³. These aspects provide insight on the health of a single species' population and its relative resilience to human induced and naturally occurring change;
 - (c) include one or more indicators disclose metrics that measures measure changes in the



number of individuals of a species within specific area, e.g., counting the number of individuals or breeding pairs may provide information on changes in suitability of an area as a breeding ground;

- (d) include one or more indicators when disclosing information disclose metrics on species at global extinction risk²² such as:risk⁶⁴ that measure
 - iv. the threat status of species and how activities/pressures may affect the threat status; or
 - changechanges in the relevant habitat for a threatened species as a proxy for the<u>undertakingsundertaking's</u> impact on the local population's extinction risk.
- <u>23.</u> If the undertaking identified material impacts related to ecosystems, the undertaking shallconsider, as per ecosystem category (IUCN Global Ecosystem Typology 2.0), two aspects it may disclose:
 <u>7.</u> with regard to obtain insights into the health of ecosystems:
 - (e) ecosystems extent: the undertaking shall report an indicator, metrics that measuresmeasure area coverage of a particular ecosystem without necessarily considering the quality of the area being assessed, such as habitat cover. For example, forest cover is a measure of the extent of a particular ecosystem type, without factoring in the condition of the ecosystem (e.g., provides the area without describing the species diversity within the forest).
 - (f) with regard to ecosystems condition:
 - vi. <u>one or more indicators metrics</u> that measure the quality of ecosystems relative to a pre-determined reference state;-or
 - vii. <u>one or more indicatorsmetrics</u> that measure multiple species (within an <u>ecosystem</u> rather than the number of individuals within a single species) within an ecosystem: e.g. (for example: scientifically established species richness and abundance indicators that measure the development of (native) species composition within an ecosystem against the reference state at the beginning of the first reporting period [as well as the targeted state outlined in the Post-2020Kunming-Montreal Global Biodiversity Framework], or an aggregation of species' conservation status if relevant;); or
 - viii. <u>one or more indicatorsmetrics</u> that <u>may also</u> reflect structural components of condition such as habitat connectivity (i.e., how linked habitats are to <u>each</u> <u>othereachother</u>).

Disclosure Requirement E4-6 – <u>PotentialAnticipated</u> financial effects from <u>material</u>biodiversity and ecosystem-related impacts, risks and opportunities

- 24. The undertaking shall disclose its <u>potentialanticipated</u> financial effects of material risks and opportunities arising from biodiversity- and ecosystem-related <u>impactsrisks and</u> <u>opportunities</u>.
- 21.25. The information required by paragraph 41 is in addition to the information on current financial effects on the entity's financial position, financial performance and dependencies.cash flows for the reporting period required under ESRS 2 SBM-3 para 48 (d). is in addition to the information on current financial effects on the entity's financial position, financial performance and cash flows for the reporting period required under ESRS 2 SBM-3 para 48 (d).
- 22.26. The objective of this Disclosure Requirement is to provide an understanding of:
 - (g) potential<u>anticipated</u> financial effects due to material risks arising from biodiversityand ecosystem-related impacts and dependencies and how these risks have (or could reasonably be expected to have) a material influence (or are likely to have a material influence) on the undertaking's cash flows, financial position, financial performance and position, development, cost of capital or access to finance_cash flows over the short-, medium- and long-term-time horizons; and

potential<u>anticipated</u> financial effects due to biodiversity- and ecosystem-related material opportunities and howrelated to biodiversity- and ecosystem.



valuation, Consultation Draft, Aligning Accounting Approaches for Nature (Align). ²⁴ As defined in the EU Birds and Habitats Directive 2013-2018 Reporting Guidelines.

²² As indicated in The IUCN Red List of Threatened Species. Source: https://www.iucnredlist.org/en.

⁶³ As defined in the undertaking may financially benefit from such materialopportunities<u>EU Birds and Habitats</u>
 <u>Directive 2013-2018 Reporting Guidelines.</u>
 ⁶⁴ As indicated in the IUCN Red List of Threatened Species and the European Red List published by the European Commission.

- 23.27. The disclosure shall include:
 - (h) a quantification of the potential anticipated financial effects in monetary terms before considering biodiversity and ecosystems-related actions or where impracticablenot possible without undue cost or effort, qualitative information. For financial effects arising frommaterial opportunities, a quantification is not required if it would result in disclosure that does not meet the qualitative characteristics of information (see [draft] ESRS 1 Appendix C Qualitative characteristics of information). The quantification of the potentialanticipated financial effects in monetary terms may be a single amount or a range;
 - (i) a description of the effects considered, the related impacts and *dependencies* to which they relate and the time horizons in which they are likely to materialise; and
 - (j) the critical assumptions used <u>into quantify</u> the <u>estimate anticipated financial</u> <u>effects</u> as well as the sources and the <u>leveloflevelof</u> uncertainty <u>attachedof</u> those assumptions.
- 8. In the context of this Disclosure Requirement, potential financial effects include financial effects that do not meet the recognition criteria for inclusion in the financial statement line items and notes to the financial statements.



Appendix A: Defined terms Application Requirements

This appendix is an integral part of the [draft] ESRS E4. It supports the application of the disclosure requirements set out in this standard and has the same authority as the other parts of the [draft] Standard standard.

Avoidance	Measures taken to prevent impacts from occurring in the first
Avoidance	place, for instance by changing or adjusting the development
	project's location and/or the scope, nature and timing of its
	activities.
Biodiversity access and	Access and benefit-sharing refers to the way in which genetic
benefit-sharing	resources may be accessed, and how the benefits that result from
	their use are shared between the people or countries usingthe
	resources (users) and the people or countries that provide
	them (providers).
Impact drivers	All the factors that cause changes in nature, anthropogenicassets,
	nature's contributions to people and a good quality of life.Direct
	drivers of change can be both natural and anthropogenic; they
	have direct physical (mechanical, chemical, noise, light etc.)and
	behaviour-affecting impacts on nature. They include, inter alia,
	climate change, pollution, different types of land use change,
	invasive alien species and zoonoses, and exploitation. Indirect
	impact drivers operate diffusely by altering and influencing direct
	drivers (by affecting their level, direction or rate)as well as other
	indirect drivers. Interactions between indirect and direct drivers
	create different chains of relationship, attribution, and impacts,
	which may vary according to type, intensity, duration, and
	distance. These relationships can also lead to different types of
	spill-over effects. Global indirect drivers include economic,
	demographic, governance, technological and cultural ones.
	Special attention is given, among indirect drivers, to the role of
	institutions (both formal and informal) and impacts of the patterns
	of production, supply and consumption on nature,
	nature's contributions to people and good quality of life.
Biodiversity loss	The reduction of any aspect of biological diversity (i.e., diversity at
	the genetic, species and ecosystem levels) is lost in a particular
	area through death (including extinction), destruction or manual
	removal; it can refer to many scales, from global extinctions to
	population extinctions, resulting in decreased total
	diversity at the same scale.
Biodiversity or biological	The variability among living organisms from all sources including
diversity	terrestrial, marine and other aquatic ecosystems and the
	ecological complexes of which they are a part. This includes
	variation in genetic, phenotypic, phylogenetic, and functional
	attributes, as well as changes in abundance and distribution over
	time and space within and among species, biological
Die Bernete 191	communities and ecosystems.
Biodiversity-sensitive	Natura 2000 network of protected areas, UNESCO World
area	Heritage sites and Key Biodiversity Areas ('KBAs'), as well as
	other protected areas, as referred to in Appendix D of Annex II to
	Commission Delegated Regulation (EU) 2021/2139.



Biosphere or ecological	Integrity refers to an unimpaired condition, a state of being
integrity	complete or undivided. Biological integrity has been defined as
integrity	"[t]he ability to support and maintain a balanced, integrated
	adaptive assemblage of organisms having species composition,
	diversity, and functional organisation comparable to that of
	natural habitat of the region".
Deforestation	Temporary or permanent human-induced conversion of forested
	land to non-forested land. (Annex I point 21 of COMMISSION
	DELEGATED REGULATION (EU) 2022/1288 of 6 April 2022
	supplementing Regulation (EU) 2019/2088)
Degradation or degraded	Degradation refers to chronic human impacts resulting in the loss
ecosystem	of biodiversity and the disruption of an ecosystem's structure,
	composition, and functionality.
Dependencies	Dependency is the result of the undertaking relying on
	biodiversity and/or ecosystems within its business model and/or
	conduct of business. A prominent and scientifically well-
	established approach to assess, monitor and value biodiversity
	and ecosystem dependencies is by assessing the undertakings
	dependence on ecosystem services
Desertification	Desertification means land degradation in arid, semi-arid and dry
	sub-humid areas resulting from various factors, including climatic
	variations and human activities. Desertification does not refer to
	the natural expansion of existing deserts.
Ecological condition	Refers to the quality of an ecosystem measured in terms of its
_	abiotic and biotic characteristics.
Ecosystem extent	Refers to the size of an ecosystem asset, whereas an ecosystem
	asset is the contiguous space of a specific ecosystem type
	characterised by a distinct set of biotic and abiotic components
	and their interactions.
Ecosystem conversion	Situations in which, for a given location, there is a change in
	ecosystem type involving a distinct and persistent change in
	ecological structure, composition and function which, in turn, is
	reflected in the supply of a different set of ecosystem services.
Ecosystem(s)	A dynamic complex of plant, animal and micro-organism
	communities and their non-living environment interacting as a
	functional unit. A typology of ecosystems is provided by the IUCN
	Global Ecosystem Typology 2.0.
Ecosystem restoration	Any intentional activities that initiate or accelerate the recovery
	of an ecosystem from a degraded state.
Ecosystem services	Refers to the contributions of ecosystems to the benefits that are
	used in economic and other human activity, respectively the
	benefits people obtain from ecosystems. In the Millennium
	Ecosystem Assessment, ecosystem services can be divided into
	supporting, regulating, provisioning and cultural.
	The Common International Classification of Ecosystem Services
	(CICES) classifies types of ecosystems services.
Habitat	The place or type of site where an organism or population
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	naturally occurs. Also used to mean the environmental attributes
	required by a particular species or its ecological niche.



Habitat fragmentation	A general term describing the set of processes by which habitat
habitat haginentation	loss results in the division of continuous habitats into a greater
	number of smaller patches of lesser total and isolated from each
	other by a matrix of dissimilar habitats. Habitat fragmentation may
	occur through natural processes (e.g., forest and grasslandfires,
	flooding) and through human activities (forestry, agriculture,
	urbanisation).
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Invasive or alien species	Species whose introduction and/or spread by human action
	outside their natural distribution threatens biological diversity, food
	security, and human health and well-being. "Alien" refers to the
	species having been introduced outside its natural distribution
	("exotic", "non-native" and "non-indigenous" are synonyms for
	"alien"). "Invasive" means "tending to expand into and modify
	ecosystems to which it has been introduced". Thus, a species may
	be alien without being invasive, or, in the case of a species native
	to a region, it may increase and become
	invasive, without actually being an alien species.
Key Biodiversity Area	Sites contributing significantly to the global persistence of
	biodiversity', in terrestrial, freshwater and marine ecosystems.
	Sites qualify as global KBAs if they meet one or more of 11 criteria,
	clustered into five categories: threatened biodiversity;
	geographically restricted biodiversity; ecological integrity;
	biological processes; and, irreplaceability. The World Database of
	Key Biodiversity Areas is managed by BirdLife International on
	behalf of the KBA Partnership.
Land degradation	Refers to the many processes that drive the decline or loss in
	biodiversity, ecosystem functions or their benefits to people and
	includes the degradation of all terrestrial ecosystems.
Land-use (change)	The human use of a specific area for a certain purpose (such as
	residential; agriculture; recreation; industrial, etc.). Influenced by,
	but not synonymous with, land cover. Land use change refers toa
	change in the use or management of land by humans, which
	may lead to a change in land cover.
Land-system (change)	Land systems are the terrestrial component of the Earth system,
	encompassing all processes and activities related to the human
	use of land. These include socio-economic, technological and
	organisational inputs and arrangements, as well as the benefits
	gained from land and the unintended social and ecological
	outcomes of societal activities. The land systems concept
	combines land use (the activities, arrangements and inputs
	associated with land use) with land cover (the ensemble of
	physical characteristics of land discernible by Earth
	Observation).



Mitigation hierarchy	The mitigation hierarchy comprises:
	a. Avoidance: measures taken to avoid creating impacts from the
	outset, such as careful spatial or temporal placement of elements
	of infrastructure, in order to completely avoid impacts on certain
	components of biodiversity. This results in a change to a
	"business as usual" approach.
	b. Minimisation: measures taken to reduce the duration, intensity
	and / or extent of impacts that cannot be completely avoided, as
	far as is practically feasible.
	c. Rehabilitation / restoration: measures taken to rehabilitate
	degraded ecosystems or restore cleared ecosystems following
	exposure to impacts that cannot be completely avoided and / or
	minimised
	d. Compensation or Offset: measures taken to compensate for
	any residual significant, adverse impacts that cannot be avoided,
	minimised and / or rehabilitated or restored. Measures to achieve
	No Net Loss or a Net Gain of biodiversity for at least as long as
	the
	project's impacts are biodiversity offsets. Offsets can take the form
	of positive management interventions such as restoration of
	degraded habitat, arrested degradation or averted risk, where
	there is imminent or projected loss of biodiversity. Measures that
	address residual impacts but are not quantified to achieve No Net
	Loss or not secured for the long term are compensation,
	otherwise known as compensatory mitigation.
Natural resources	Natural assets (raw materials) occurring in nature that can be
	used for economic production or consumption.
Nature-based solutions	Nature-based solutions are understood as actions to protect,
	conserve, restore, sustainably use and manage natural or
	modified terrestrial, freshwater, coastal and marine ecosystems
	which address social, economic and environmental challenges
	effectively and adaptively, while simultaneously providing human
	well-being, ecosystem services, resilience and biodiversity
	benefits.
[No net loss or net gain]	[A target for a development project in which the impacts on
	biodiversity caused by the project are balanced or outweighed by
	measures taken to avoid and minimise the project's impacts, to
	undertake on-site restoration and finally to offset the residual
	impacts, so that no loss remains. Where the gain exceeds the loss,
	the term 'Net Gain' (NG) may be used instead of No Net
	Loss.]







Systemic risks	Risks arising from the breakdown of the entire system, rather than
	the failure of individual parts. They are characterised by modest
	tipping points combining indirectly to produce large failures with
	cascading of interactions of physical and transition risks
	(contagion), as one loss triggers a chain of others, and with
	systems unable to recover equilibrium after a shock. An exampleis
	the loss of a keystone species, such as sea otters, which havea
	critical role in ecosystem community structure. When sea otters were
	hunted to near extinction in the 1900s, the coastal ecosystems
	flipped and biomass production was greatly
	reduced.
Soil degradation	"Soil degradation" means the diminishing capacity of the soil to
Conacyradanon	provide ecosystem goods and services as desired by its
	stakeholders, according to IPBES as referred to in paragraph
	100 of Decision No 1386/2013/EU.
Soil sealing	A "sealed area" means any area where the original soil has been
Jon searing	covered (such as roads) making it impermeable. This non-
	permeability can create environmental impacts as described in
	Annex IV EMAS Regulation - EU 2018/2026).
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s Sustainable agriculture practices Sustainable ocean practices Sustainable seas practices Threatened species	and fauna, listed in the European Red List or the IUCN Red List, as referred to in Section 7 of Annex II to Delegated Regulation (EU) 2021/2139.
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s Sustainable agriculture practices Sustainable ocean practices Sustainable seas practices Threatened species	and fauna, listed in the European Red List or the IUCN Red List, as referred to in Section 7 of Annex II to Delegated Regulation (EU) 2021/2139. Nature-related transition risks are risks that result from a misalignment between an organisation's or investor's strategy and
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s Sustainable agriculture practices Sustainable ocean practices Sustainable seas practices Threatened species	and fauna, listed in the European Red List or the IUCN Red List, as referred to in Section 7 of Annex II to Delegated Regulation (EU) 2021/2139. Nature-related transition risks are risks that result from a misalignment between an organisation's or investor's strategy and management and the changing regulatory, policy or societal landscape in which it operates. Developments aimed at halting or reversing damage to nature, such as government measures, technological breakthroughs, market changes, litigation and
s Sustainable agriculture practices Sustainable ocean practices Sustainable seas practices Threatened species	and fauna, listed in the European Red List or the IUCN Red List, as referred to in Section 7 of Annex II to Delegated Regulation (EU) 2021/2139. Nature-related transition risks are risks that result from a misalignment between an organisation's or investor's strategy and management and the changing regulatory, policy or societal landscape in which it operates. Developments aimed at halting or reversing damage to nature, such as government measures,



ESRS 2 General

disclosures<u>Strategy</u>

Disclosure Requirement E4-1 – Transition plan on<u>and consideration of</u> biodiversity and ecosystems <u>in strategy and business model</u>

- AR. 1 If disclosing a transition plan, the undertaking may:
 - (a) explain how it will adjust its strategy and business model to improve and, ultimately, achieve alignment with relevant local, national and global public policy goals and targets related to biodiversity and ecosystems including the vision of the Kunming- Montreal Global Biodiversity Framework and its relevant goals and targets, the EU Biodiversity Strategy for 2030, and the EU Birds and Habitats Directives and, as appropriate, *planetary boundaries* related to biosphere integrity and land system change
 - (b) include its own operations and also explain how it is responding to material impacts in its related value chain identified in its materiality assessment in accordance with ESRS 2 IRO-1 Description of the processes to identify and assess material impacts, risks and opportunities;
 - (c) explain how its strategy interacts with its transition plan;
 - (a) (d) explain how it contributes to biodiversity and ecosystem impact drivers and its possible mitigation actions following the mitigation hierarchy and the main path- dependencies and locked-in assets and resources (e.g., plants, raw materials) that are associated with biodiversity and ecosystems change;
- AR 1. Targets under paragraph 16(a)iii may be:
 - (e) explain how biodiversity offsets are used as part of the transition plan, and if so, where the offsets are planned to be used, the extent of use in relation to the overall transition plan, and whether the mitigation hierarchy was considered;
 - (f) explain how the process of implementing and updating the transition plan is managed;
 - (g) explain how it measures progress, namely indicate the metrics and methodologies it uses for that purpose;
 - (h) indicate whether the administrative, management and supervisory bodies have approved the transition plan; and
 - (i) indicate current challenges and limitations to draft a plan in relation to areas of significant impact and how the company is addressing those challenges.
 - <u>AR 2. If disclosing a transition plan, the undertaking may, for example, refer to the following</u> *targets* <u>underfrom</u> the EU <u>Nature Restoration PlanBiodiversity Strategy for 2030</u>:
 - i. 5 The decline of pollinators is reversed.
 - ii. 6 The risk and use of chemical pesticides is reduced by 50%, and the use of more hazardous pesticides is reduced by 50%.
 - iii. 8 At least 25% of agricultural land is under organic farming management, and the uptake of agro-ecological practices is significantly increased.
 - iv. 9 Three billion additional trees are planted in the EU, in full respect of ecological principles.
 - v. 10 Significant progress in the *remediation* of contaminated *soil sites*.
 - vi. 11 At least 25,000 km of free-flowing rivers are restored.
 - vii. 13 The losses of nutrients from fertilisers are reduced by 50%, resulting in the reduction of the use of fertilisers by at least 20%.



- viii. 15 The negative impacts on sensitive species and habitats, including on the seabed through fishing and extraction activities, are substantially reduced to achieve good environmental status.
- (a) enabling Transformative Change:
 - i. Business for biodiversity²³
 - ii. Financing for biodiversity²⁴

AR 2. When providing information under paragraph 16, <u>3</u>. If disclosing a transition plan, the undertaking may in additionalso refer to the mentioned frameworks and policies consider the Sustainable DevelopmentGoals using the , in particular:

SDG Compass²⁵ as guidance and with focus on the following targets:

- (a) 2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture;
- (b) <u>SDG</u> 6 Ensure availability and sustainable management of water and sanitation for all;
- (c) <u>SDG</u>14 Conserve and sustainably use the oceans, seas and *marineresources* for sustainable development; and
- (d) <u>SDG</u>15 Protect, restore and promote sustainable use of terrestrial *ecosystems*, sustainably manage forests, combat *desertification*, and halt and reverse *land degradation* and halt *biodiversity loss*.

- ²⁴ https://dopa.jrc.ec.europa.eu/kcbd/dashboard/#Financing%20for%20biodiversity
- ²⁵-https://www.globalcompact.de/fileadmin/user_upload/Dokumente_PDFs/SDG_Compass_English.pdf
- ²⁶ https://sdgs.un.org/goals/goal2
- 27 https://sdgs.un.org/goals/goal6
- 28 https://sdgs.un.org/goals/goal14
- 29 https://sdgs.un.org/goals/goal15



²³ https://dopa.jrc.ec.europa.eu/kcbd/actions-tracker/#Business%20for%20biodiversity

Impact. risk and opportunity management

Disclosure requirements related to <u>[draft]</u> ESRS 2 IRO-1 – Description of the processes to identify and assess material biodiversity and ecosystem-related impacts, risks and opportunities

- AR 3. In the absence of a yet to be established global set of relevant scenarios and following the principle-based approach as defined within this [draft] Standard, the undertaking may refer to the guidance provided by TNFD³⁰ and the following tools and methodologies when applying and disclosing on relevant scenarios under paragraph 22: "Methodological Assessment Report on Scenarios and Models of Biodiversity (a) and Ecosystem Services" published by the IPBES in 2016³¹; (b) the Globio model³² allows trends in biodiversity and ecosystem services to be modelled under future socio-economic development scenarios, as well as different policy interventions; the Risk Filter Suite³³ by WWF includes, in its Water Risk Filter tool, TCFD-(c) aligned scenarios of water risks for 2030 and 2050 based on climate scenarios (IPCC CMIP5 Representative Concentration Pathways - RCP) and socioeconomic scenarios (IIASA Shared Socioeconomic Pathways - SSP). Among physical water risks, the tool includes risks related to ecosystem services status; (d) the ENCORE³⁴ allows exploration of future scenarios in terms of the potential impacts and dependencies of activities on biodiversity (available for some sectors, e.g., agriculture and mining); the EXIOBASE³⁵ is a global, detailed Multi-Regional Environmentally (e) Extended Supply-Use Table (MR-SUT) and Input-Output Table (MR-IOT). The MR-IOT that can be used for the analysis of the environmental impacts associated with the final consumption of product groups; and (f) climate change scenarios as drivers for biodiversity and ecosystems aspects (see [draft] ESRS E1).
 - AR 4. -The *materiality* assessment under [draft] ESRS E4 includes the undertaking's:
 - (a) contribution to direct *impact drivers* on *biodiversity* loss as defined by IPBES³⁶ loss⁶⁵:
 - i. climate change;
 - ii. *land-use change* (e.g., land artificialisation), *freshwater*-use change andsea-use change;
 - iii. direct exploitation;
 - iv. invasive alien species;
 - v. *pollution;* and
 - vi. others.
 - (b) *impacts* on the state of species (i.e., species population size, species globalextinction risk);
 - (a) impacts on the extent and condition of *ecosystems* (classified as per the IUCN Global Ecosystem Typology 2³⁷ and defined within the UN SEEA EA



⁶⁵ The direct driver climate change is to be reported under ESRS E1 Climate Change and pollution under ESRS E2 Pollution.

³⁰ https://framework.tnfd.global/disclosure-recommendations/strategy/

³¹ Source: https://ipbes.net/assessment-reports/scenarios

³² Source: https://www.globio.info/why-use-globio

³³⁻Source: www.riskfilter.org/

³⁴-Source: https://encore.naturalcapital.finance/en

35-Source: https://www.exiobase.eu/

³⁶ The direct driver climate change is to be reported under [draft] ESRS E1 *Climate Change* and pollution under [draft] ESRS E2 Pollution. ³⁷ https://portals.iucn.org/library/sites/library/files/documents/2020-037-En.pdf



- (c) accounting framework (e.g.,including through landdegradation, desertification and soil sealing); and
- (d) impacts and *dependencies* on *ecosystem services* (as defined within the UN SEEA EA accounting framework)...
- AR 5. When assessing the *materiality* of *impacts*, *dependencies*, *risks* and *opportunities* the undertaking shall consider the provisions in [draft] ESRS 2 IRO-1 and [draft] ESRS 1 Chapter 3 Double materiality as the basis for sustainability disclosures and describe its considerations.
- AR 6. The undertaking shall assess the materiality of biodiversity and ecosystems in its own operations and its value chain, and may consider conducting its materiality assessment in line with the first three phases of the LEAP approach by TNFD³⁸: Locate (paragraph AR 7), AR 7), Evaluate (paragraph AR 8)AR 8) and Assess (paragraph AR 9). For further guidance the undertaking may refer to the TNFD Nature-Related Risk & Opportunity Management and DisclosureFramework. AR 9).
- AR 7. Phase 1 relates to the localisation of relevant *sites* regarding its interface with *biodiversity* and *ecosystems*. To identify these relevant sites the undertaking shall consider:
 - (a) developing a list of locations of direct assets and operations and related upstream and downstream *value chain* that are relevant to the undertakings business activities. Furthermore, the undertaking may provide information aboutsites for which future operations have been formally announced.
 - (b) listing the biomes and ecosystems it is interfacing³⁹ with based on the list of locations identified under paragraph <u>AR 7(a).AR 7(a).</u>
 - (c) identifying the current integrity and importance of biodiversity and ecosystem at each location taking into consideration the information provided in paragraph <u>2217</u>.
 - (d) developing a list of locations where the undertaking is interfacing with locations in or near **biodiversity-sensitive** areas taking into consideration the information provided in paragraph 2217.
 - (e) identifying which sectors, business units, value chains or asset classes are interfacing with biodiversity and ecosystems in these material sites. Instead of <u>disclosureidentifying these interfaces</u> per site, the undertaking may choose to <u>discloseidentify them</u> per *raw material* procured or sold by weight in tons, if such practice offers greater transparency.
- AR 8. In Phase 2, the undertaking shall consider evaluating actual or potential impacts and *dependencies* on *biodiversity* and *ecosystems* for relevant *sites* by:
 - (a) identifying business processes and activities that interface with biodiversity and ecosystems;
 - (b) identifying actual and potential impacts and dependencies;
 - (c) indicating the size, scale, frequency of occurrence and speed of the impacts on biodiversity and ecosystems taking into consideration the disclosures under paragraph <u>2316</u>. Furthermore, the undertaking may disclose:
 - the percentage of its *suppliers*' facilities which are located in risk prone areas (with *threatened species* on the IUCN Red List of Species, the Birds and Habitats Directive or nationally list of threatened species, or in officially recognised Protected Areas, the Natura 2000 network of protected areas and Key Biodiversity Areas);
 - ii. the percentage of its procurement spend from suppliers with facilities which are located in risk prone areas (with threatened species on the IUCN Red List of Species, the Birds and Habitats Directive or nationally list of threatened species, or in officially recognised Protected Areas, the Natura 2000 network of protected areas



and Key Biodiversity Areas);and

(d) indicating the size and scale of the dependencies on biodiversity and ecosystems, including on raw materials, *natural resources* and *ecosystem services* taking into consideration the disclosures under paragraph 25. The undertaking may rely on the international classifications such as the Common International Classification of Ecosystem Services (CICES).

AR 9. Based on the results of Phase 1 and 2, the undertaking shall consider assessing material risks and opportunities in Phase 3 along the following categories:

- (a) physical risks:
 - acute risks (e.g., natural disasters exacerbated by loss of coastal protection from *ecosystems*, leading to costs of storm damage to coastal infrastructure, disease or pests affecting the species or variety of crop the undertaking relies on, especially in the case of no or low genetic diversity, species loss and ecosystem *degradation*;); and
 - ii. chronic risks (e.g., loss of crop yield due to decline in pollination services, increasing scarcity or variable production of key natural inputs, ecosystem degradation due to operations leading to, for example, coastal erosion and forest fragmentation, ocean acidification, land loss to *desertification* and *soil degradation* and consequent loss of soil fertility, species loss).
- (b) *transition risks*, including:
 - i. policy and legal: e.g. introduction of regulation or policy (e.g. changes suchas increased land protection), ineffective biodiversity governance in an area, across boundaries (i.e. transboundary governance) and cooperation resulting in biodiversity and ecosystem change (e.g. biodiversity-rich ecosystems crossing national boundaries), exposure to sanctions and litigation (e.g.); exposure tosanctions and litigation (e.g.); exposure tosanctions of biodiversity-related rights, permits or allocations; or negligence towardsor killing of threatened species),; enhanced reporting obligations on biodiversity, ecosystems and related services;
 - ii. technology: e.g. substitution of products or services with a lower impact on *biodiversity* or dependence on *ecosystem services*, lack of access to data or access to poor quality data that hamper biodiversity-related assessments, transition to more efficient and cleaner technologies (i.e. with lower impacts on biodiversity), new monitoring technologies (e.g. satellite), <u>adaptationrequirements to use certain</u> technologies required to cope with new future scenarios and trends (e.g. climate resistant crops, mechanical pollinators, water purification, flood protection) used by regulators;
 - iii. market: e.g., shifting supply, demand and financing, volatility or increased costs of raw materials (e.g., biodiversity-intense inputs for which price has risen due to ecosystem *degradation*);
 - iv. reputation: e.g., changing societal, customer or community perceptions as a result of an organisation's role in loss of biodiversity, violation of nature-related rights through operations, negative media coverage due to impacts on critical species and/or ecosystems, biodiversity-related social conflicts over endangered species, protected areas, resources or *pollution*;
- (c) contribution to *systemic risks*, including:

ecosystem collapse risks that a critical natural system no longer



functions, e.g., tipping points are reached and the collapse of



⁴⁰ Source: TNFD, 2022, p.37

⁴¹⁻Source: CDSB Biodiversity Application Guidance 2021

- i. _ecosystems resulting in wholesale geographic or sector losses (summing physical risks);
- ii. aggregated risk linked to fundamental impacts of *biodiversity loss* tolevels of transition and physical risk across one or more sectors in aportfolio (corporate or financial); and
- iii. contagion risks that financial difficulties of certain corporations or financial institutions linked to failure to account for exposure to biodiversity-related risks spill over to the entire economic system as a whole.
- (d) opportunities, including^{42,43}including for example:
 - business performance categories: 1) resource efficiency; 2) products andservices; 3) markets; 4) capital flow and financing; 5) reputational capital; and
 - ii. sustainability performance categories: 6) ecosystem protection, restoration and **regeneration**; 7) sustainability use of natural resources.
- AR 10. When conducting the materiality assessment, the undertaking may refer to the Tools Catalogue provided by TNFD⁴⁴, rely on information provided by the EU Business @ Biodiversity Platform, which provides periodic updates on available tools, metrics and data sources relevant for this [draft] Standard. The undertaking may further refer to the "Exploring Natural Capital Opportunities, Risks and Exposure" (ENCORE) tool during all phases and specifically in:
 - (a) Phase 1 to:
 - i. Protected Planet database, a source of data on protected areas and other effective area-based conservation measures (OECMs), the Natura 2000 network of protected areas;
 - the Common Database on Designated Areas (CDDA) as the official source of protected area information from European countries to the World Database of Protected Areas (WDPA);
 - iii. the Global Biodiversity Information Systems (https://www.gbif.org/); The Ocean Data Viewer (https://data.unep-wcmc.org/); and
 - iv. the tool "Trase"45 on deforestation risk to assess raw materials or to the tool "Bioscope" to assess the impact drivers of biodiversity change for raw materials and to address the materiality of impact drivers of biodiversity change by raw material.
 - (b) and Phase 2 and / or 3 to:
 - information provided by the WWF Risk Filter Suite that includes the Biodiversity Risk Filter - a web-based tool integrating spatially explicit biodiversity data. It allows firms to understand and assess biodiversity impacts and dependencies, risks and opportunities, prioritise areas of action and develop tailored response plans; and
 - ii. national, European or international specialised databases (for example Global Forest Watch (https://www.globalforestwatch.org/); The Living Planet Database (https://livingplanetindex.org/home/index), The International Waterbird Census Database (http://wpe.wetlands.org/).

Presentation of information:

42 Source: TNFD, 2022, p.37

⁴³ Source: CDSB Biodiversity Application Guidance 2021



⁴⁴ https://framework.tnfd.global/the-leap-nature-risk-assessment-process/tools-catalogue/

⁴⁵ The tool "Trase" can be found here: https://supplychains.trase.earth/. It only covers deforestation risk and for a limited number of countries to date.

⁴⁶⁻The tool "Bioscope" can be found here: https://bioscope.info/. It covers commodities and resources purchased from 170 sectors in 43 countries, including the EU countries.

AR 1110. The undertaking may consider the below tables to present facilitate its materiality assessment of

Ecosystem service	Actual or potential deper	ndencies
	Change of functionality	Financial loss
	Limited, moderate or significant	Limited, moderate or significant

material sites identified under paragraph AR 7: AR 7:

		1			
Site location	Threatened species, protected areas, key biodiversity areas	Actual	or potential ir	npacts	
		Frequency of occur rence	Speed of impact	Severity of impact	Potential for mitigation
		High, mediu mor low	<1 year or 1-3 years or >3 years	High, medium or low	High, medium or low

When disclosing on paragraph AR 7(d), With regard to AR 7(e), the undertaking may consider <u>using</u> the <u>table</u> below table for presentation:

Where are the raw materials produced or sourced from?	Absolute weight of raw materials (and percentage of the raw material weight)
In areas with species listed on the IUCN Red List of Threatened Species, the Birds and Habitats	
_Directive or on national lists of threated species	
In officially recognised protected Areas	
In other Key Biodiversity Areas	

Impact, risk and opportunity management

Disclosure Requirement E4-2 – Policies related to biodiversity and ecosystems

AR 11. The **policies** described under this Disclosure Requirement may be integrated in broaderenvironmental or sustainability policies covering different subtopics.

AR 12. The undertaking may also provide information on how the *policy* refers to the production, sourcing or consumption of raw materials⁴⁷materials, and in



particular how it:

- (a) refer to policies limitinglimits procurement from suppliers that cannot demonstratethatdemonstratethat they are not contributing to significant conversion of damage to protected areas or key biodiversity areas(e.g., through certification);
- (b) refer<u>refers</u> to recognised standards or third-party certifications overseen byregulators; and
- (c) <u>addresses raw materials</u> originating from *ecosystems* that have been managed to maintain or <u>enhance conditionsenhanceconditions</u> for biodiversity, as demonstrated by regular monitoring and reporting of biodiversity status and gains or losses.

AR 13. When disclosing how its policies are connected to and in alignment with policies and legislation relation to biodiversity and ecosystems under paragraph 26(a)26(a), the undertaking may also

- <u>AR 13. The undertaking may</u> disclose connections and alignment with other global goals and agreements such as the SDGs 2, 6, 14 and 15 or any other well established global convention related to biodiversity and ecosystems.
- AR 14. When disclosing *policies* related to social consequences of *biodiversity* and *ecosystems* related *dependencies* and *impacts* under 26(e), 21 (f), the undertaking may notably refer to the Nagoya Protocol⁴⁸Protocol and the Convention for Biological Diversity (CBD)⁴⁹, but may also refer to IFC Performance Standard 4, 5, 6 and 7⁵⁰ and the Core Principles from the Accountability Framework, Principle 2 "Respect for Human Rights"⁵⁴-).
- AR 15. When disclosing <u>eninformation about</u> the social consequences of **policies** under paragraph <u>26(g),21(f)</u>, the undertaking may provide information in relation to:
 - (a) the fair and equitable <u>benefit</u>-sharing <u>fromof</u> the benefits arising from the utilisation ofgenetic resources; and
 - (b) the prior informed consent (i.e., the permission given by the competent national authority of a provider country to a user prior to accessing genetic resources, in line with an appropriate national legal and institutionalframework) for access to genetic resources.

AR 16. <u>This information</u> <u>The undertaking may be complemented onalso explain</u> how theits policy allows the undertaking enables it to:avoid its negative impacts on *biodiversity* and *ecosystems* in its operations and related *value chain* (upstream and downstream);

- (a) reduce and minimise its negative impacts on biodiversity and ecosystems in its operations and throughout the value chain that cannot be avoided;
- (b) restore and rehabilitate degraded ecosystems or restore cleared ecosystems following exposure to impacts that cannot be completely avoided and/or minimised; and
- (c) mitigate <u>its contribution to</u> material *biodiversity loss* drivers as disclosed in the section, impacts, dependencies, risks and opportunities.
- AR 17. When disclosing its *policies*, if referring to third-party standards of conduct, the undertaking may disclose whether the standard used:
 - (a) is objective and achievable based on a scientific approach to identifying issues, and realistic in assessing how these issues can be addressed on the ground under a variety of practical circumstances;
 - (b) is developed or maintained through a process of ongoing consultation with relevant **stakeholders** with balanced input from all relevant stakeholder groups, including producers, traders, processors, financiers, local people



and communities, *indigenous peoples*, and civil society organisations representing *consumer*, environmental and social interests, with no group holding undueauthority or veto power over the content;

- (c) encourages a step-wise approach and continuous improvement both in the standard and its application of better management practices, and require the establishment of meaningful *targets* and specific milestones to indicate progressagainst principles and criteria over time;
- (d) is verifiable through independent certifying or verifying bodies, which havedefined and rigorous assessment procedures that avoid conflicts of interest, and are compliant with ISO guidance on accreditation and verificationprocedures or Article 5(2) of Regulation (EC) No 765/2008; and

(e) conforms to the ISEAL Code of Good Practice.



⁴⁸-The Nagoya Protocol can be found here: https://www.cbd.int/abs/.

⁴⁹ The Convention for Biological Diversity can be found here: https://www.cbd.int/convention/.

⁵⁰ IFC Performance Standards can be found here:

https://www.ifc.org/wps/wcm/connect/topics_ext_content/ifc_external_corporate_site/sustainability-at-ifc/publications/publications_handbook_pps.

⁵¹ The Accountability Framework Core Principles can be found here: https://accountability-framework.org/the-

framework/contents/core-principles/.

⁵² Defined by the CBD as genetic material with real or potential value available at:

https://www.cbd.int/convention/articles/?a=cbd-02.

AR 18. The undertaking may disclose whether it considers an "avoidance" action plan, which prevents damaging *actions* before they take place. Avoidance often involves a decision to

deviate from the business-as-usual project development path. An example of avoidance is altering the *biodiversity* and ecosystem footprint of a project to avoid destruction of natural *habitat* on the *site* and/or establishing set-asides where priority biodiversity values are present and will be conserved. At a minimum, avoidance should be considered where there are biodiversity and ecosystem-related values that are in one of the following categories: particularly vulnerable and irreplaceable, of particular concern to *stakeholders*, or where a cautious approach is warranted due to uncertainty in impact assessment or the efficacy of management measures. The three main types of avoidance are defined below:

- (a) avoidance through Site Selection (Locate the entire project away from areas recognised for important biodiversity values);
- (b) avoidance through Project Design (Configure infrastructure to preserve areas at the project site with important biodiversity values); and
- (c) avoidance through Scheduling (Time project activities to account for patterns of species behaviour (e.g., breeding, migration) or ecosystem functions (e.g., river dynamics).
- AR 19. When disclosing under paragraph 31(b), the undertaking may refer to "The BBOP Principles on Biodiversity Offsets" (2018), "IUCN Policy on Biodiversity Offsets" (2016), and "Guidance on achieving no net loss or net gain of biodiversity and ecosystem services" (2020, EU document).

AR 20. The disclosure required by paragraph 31(d) may also include for each key action: AR 19. With regard to key **actions**, the undertaking may disclose:

- (a) a list of key stakeholders involved (e.g., competitors, suppliers, retailers, other business partners, affected communities and authorities, government agencies) and how they are involved, mentioning key stakeholders negatively or positively impacted by actions and how they are impacted, including impacts or benefits created for affected communities, smallholders, indigenous peoples or other persons in vulnerable situations;
- (b) where applicable, an explanation of the need for appropriate consultations and the need torespect the decisions of affected communities;
- (c) a brief assessment of whether the key actions may induce significant negative sustainability *impacts*;
- (a)(d) an explanation of whether the key action is intended to be a one-time initiative or a systematic practice-;
- (a) if the action is individual or collective, and for a collective, the undertaking may explain its role and whether the success of it depends on the undertaking's support.
- (e) an explanation of whether the key action plan is carried out only by the undertaking, using the undertaking's resources, or whether it is part of a wider initiative to which the undertaking significantly contributes. If the key action plan is part of a wider initiative, the undertaking may provide more information on the project, its sponsors and other participants;
- (b)(f) a description of how the action(s) to contribute it contributes to systemwide change,



notably to alter the drivers of biodiversity and ecosystem change, e.g., through technological, economic, institutional, and social factors and changes in underlying values and behaviours⁵⁴-behaviours, an explanationwhether the action is intended to be a one-time initiative or a systematic practice;

- AR 21. When disclosing policies regarding sourcing of raw materials under paragraph 26(e), the undertaking may refer to what action the undertaking may take to shift suppliers when they contribute to significantly negatively impacting those protected areas or key biodiversity areas.
- AR 22.<u>AR 20.</u> In the context of this Disclosure Requirement, "local and indigenous knowledge" refer to the understandings, skills and philosophies developed by societies with long histories of interaction with their natural surroundings. For rural and *indigenous peoples*, local knowledge informs decision-making about fundamental aspects of day-to-day life.⁵⁵

Metrics and targets

Disclosure Requirement E4-4 – Targets related to biodiversity and ecosystems

- AR 23. When determining ecological thresholds to set targets, the undertaking may refer to the guidance provided by TNFD on the use of the methods by Science-Based Targets Initiative for Nature (SBTN)⁵⁶, the relevant work outlined in the Sustainable Development Performance Indicator (SDPI) online platform, or any other guidance with a scientifically acknowledged methodology that allows the setting of science-based targets by AR 24. Videntifying sind and thresholds in the setting.
- <u>AR 21. When disclosing information required under paragraph 30</u> for the purpose of setting *targets* the undertaking shall consider the need for an informed and willing consent of local and *indigenous* communities *peoples*, the need for appropriate consultations and the need to respect the decisions of these communities.

Presentation of information

AR 22. The targets related to material impacts may be presented in a table as illustrated below:

Type of target according to mitigation hierarchy	Baseline value and base year		value and phical sco		Connected policy or legislation ⁵⁷
mitigation hierarchy	<u>value and</u> <u>base year</u>	<u>geogra</u> scope	<u>iphical</u>		policy or legislation if relevant
		2025	2030	Up to <u>2050</u> <u>2050</u>	
Avoidance					
Minimisation					
Rehabilitation and restoration					
Compensation or offsets					

<u>AR 23.</u> The *targets* related to aspects the potentially material sustainability matters listed in paragraph <u>AR 4 AR4</u> of this [draft] Standard, may be presented in presented in a table as illustrated below:

Type of target according to		Target value	e and geogra	aphical scope	Connected
	value and				policy or
	base year				legislation ⁵⁸
sustainability matter	value and				policy or
		2025	2030	Up to 2050	
	<u>base year</u>				legislation if



	relevant
AR 25<u>24</u>. M	leasurable <i>targets</i> related to <i>biodiversity</i> and <i>ecosystems</i> may be expressed
(a)	size and location of all habitat areas protected or restored, whether directly or indirectly controlled by the undertaking, and whether the success of the restoration measure was or is approved by independent external professionals;
(a)	area of land with a permanently protected land status as of the end of the reporting period;
(b)	area of land with a protected land status as of the end of reporting period;
(b)	recreated surfaces (environments in which management initiatives are implemented so as to create a habitat on a <i>site</i> where it did not exist initially);or
(c)	number or percentage of projects / sites whose ecological integrity wasimproved (e.g., installation of fish passes, wildlife corridors).
Disclosure R ecosystemsc	Requirement E4-5 – Impact metrics related to biodiversity and
when2	dertaking shall consider and describe these considerations as per the following 25. When preparing the information required under this Disclosure Requiremer Indertakingshall consider and may describe:
when2	25. When preparing the information required under this Disclosure Requiremen
when <u>2</u> the ur	25. When preparing the information required under this Disclosure Requirement indertakingshall consider and may describe: the methodologies and metrics used and an explanation for why these methodologies and metrics are selected, as well as their assumptions, limitationsand uncertainties, as well as any changes in methodologies
when<u>:</u> the ur (a)	25. When preparing the information required under this Disclosure Requirement indertakingshall consider and may describe: the methodologies and metrics used and an explanation for why these methodologies and metrics are selected, as well as their assumptions, limitationsand uncertainties, as well as any changes in methodologies made over time and why they occurred;
when<u>:</u> the ur (a)	25. When preparing the information required under this Disclosure Requirement indertakingshall consider and may describe: the methodologies and metrics used and an explanation for why these methodologies and metrics are selected, as well as their assumptions, limitationsand uncertainties, as well as and any changes in methodologies made over time and why they occurred; the scope of the metrics and methodologies, for example:
when<u>:</u> the ur (a)	 25. When preparing the information required under this Disclosure Requiremented entakingshall consider and may describe: the methodologies and metrics used and an explanation for why these methodologies and metrics are selected, as well as their assumptions, limitationsand uncertainties, as well as and any changes in methodologies made over time and why they occurred; the scope of the metrics and methodologies, for example: undertaking, <i>site</i>, brand, commodity, corporate business unit, activity entire value chain or specific parts the value chain, upstream or
when<u>:</u> the ur (a)	 25. When preparing the information required under this Disclosure Requiremendertakingshall consider and may describe: the methodologies and metrics used and an explanation for why these methodologies and metrics are selected, as well as their assumptions, limitationsand uncertainties, as well asand any changes in methodologies made over time and why they occurred; the scope of the metrics and methodologies, for example: undertaking, site, brand, commodity, corporate business unit, activity entire value chain or specific parts the value chain, upstream or downstream value chain, or own operations and leased assets;
when <u>2</u> the un (a) (b)	 25. When preparing the information required under this Disclosure Requiremendertakingshall consider and may describe: the methodologies and metrics used and an explanation for why these methodologies and metrics are selected, as well as their assumptions, limitationsand uncertainties, as well asand any changes in methodologies made over time and why they occurred; the scope of the metrics and methodologies, for example: undertaking, site, brand, commodity, corporate business unit, activity entire value chain or specific parts the value chain, upstream or downstream value chain, or own operations and leased assets; aspects (as set out in paragraph AR 4) covered.
when <u>2</u> the ur (a) (b) (c) (d) <u>(e)</u>	 25. When preparing the information required under this Disclosure Requiremendertakingshall consider and may describe: the methodologies and metrics used and an explanation for why these methodologies and metrics are selected, as well as their assumptions, limitationsand uncertainties, as well as any changes in methodologies made over time and why they occurred; the scope of the metrics and methodologies, for example: undertaking, site, brand, commodity, corporate business unit, activity entire value chain or specific parts the value chain, upstream or downstream value chain, or own operations and leased assets; aspects (as set out in paragraph AR 4) covered. the biodiversity components of the metrics: species specific, ecosystemspecific; a description of the geographies covered by the methodology and, an explanation of why the<u>any</u> relevant geographies identified were not
when <u>2</u> the ur (a) (b) (c) (d) <u>(e)</u>	 25. When preparing the information required under this Disclosure Requiremendertakingshall consider and may describe: the methodologies and metrics used and an explanation for why these methodologies and metrics are selected, as well as their assumptions, limitationsand uncertainties, as well asand any changes in methodologies made over time and why they occurred; the scope of the metrics and methodologies, for example: undertaking, site, brand, commodity, corporate business unit, activity entire value chain or specific parts the value chain, upstream or downstream value chain, or own operations and leased assets; aspects (as set out in paragraph AR 4) covered. the biodiversity components of the metrics: species specific, ecosystemspecific; a description of the geographies covered by the methodology and, an explanation of why the<u>any</u> relevant geographies identified were not includedomitted; how the metrics integrate ecological thresholds (e.g., the biosphere integrate

⁵⁶-https://framework.tnfd.global/wp-content/uploads/2022/11/TNFD_Additional_Draft_Guidance_v0-3_B.pdf



⁵⁷ Refer to Global and EU goals and targets related to biodiversity and ecosystems

⁵⁸ Refer to Global and EU goals and targets related to biodiversity and ecosystems

- (g)(h) an indication of which action is measured and monitored via the metrics and how they relate to the achievement of *targets*;
- (h)(i) whether metrics are mandatory (based on legislation) or voluntary. If they are mandatory, the undertaking may consider listing the relevant legislation; if voluntary, <u>the undertaking may</u> refer to <u>theany</u> voluntary standard/<u>or</u> procedure used; and
- (i)(j) whether the metrics are informed by or correspond to expectations or recommendations of relevant and authoritative national, EU-level or intergovernmental guidelines, *policies*, legislation or agreements, such as the Convention for Biological Diversity (CBD) andor IPBES.
- AR 27. When selecting metrics, the 26. The undertaking shall consider using selecting metrics that are verifiable and describing these considerations to use that are technically and scientifically robust and verifiable information, as well as data and methods that, from a scientific perspective, are fit for decision making and responsive todecision making everconsidering the appropriate timeframe and spatial scale. For example, time scales geographies, and may disclose how its selected metrics correspond to those criteria. To ensure that the metric is relevant there should be an accepted theory of the a clear relationship between the indicator and the purpose, with agreement that change in the indicator indicates change in the issue of concern of the measurement. Uncertainties should be reduced as far as possible. Data or mechanisms used should be supported by well-established organisations and updated over time. Robust modelled data and expert judgment can be used where data gaps exist⁶⁰ exist. The methodology must be sufficiently detailed to allow for meaningful comparison of impacts and mitigation activities over time. Information gathering processes and definitions must be systematically applied. This enables a meaningful review of the undertaking's performance over time and helps internal and peer comparison⁶¹ comparison.
- AR 2827. If a metric corresponds to a target, the baseline for both shall be aligned. The biodiversity baseline is an essential component of the larger biodiversity and ecosystems management process. The baseline is necessary to inform impact assessment and management planning, as well as monitoring and adaptive management⁶². The undertaking may refer to the work in "Good Practices for the Collection of Biodiversity Baseline Data" (Gullison, 2015) for baseline creation, and in particular the checklist available on page 18management.
- AR 29. When identifying relevant metrics, the undertaking may refer to the biodiversity and ecosystems-related indicators listed for the Sustainable Development Goals⁶³, IPBES Assessment Report 2019⁶⁴ and the Report on biodiversity measurement approaches developed by the Business for Biodiversity Platform⁶⁵.
- AR 3028. Methodologies available to collect data and measure the undertakings' impacts on- biodiversity stateand ecosystems may be separated into three categories as follows:
 - (a) primary data: collected in-situ using on the ground surveys;
 - (b) secondary data: including geospatial data layers that are overlaid withgeographic location data of business activities:
 - i. at<u>At</u> the species level, data layers on the ranges of different species can be used to predict the species that may be present at different locations. This includes operation *sites* and sourcing locations. RangeDifferent range layers, each will have differingdifferent levels of accuracy depending on <u>certain</u> factors (e.g., whetherspecies ranges have been refined based on availability of *habitat*). Information on the threat status of the species, and the activities that threaten them, can provide an indication of the likely contribution that business activities may be having on driving population trends and threat status;.
 - ii. at<u>At</u> the ecosystem level, data layers reflecting change in the extent



and condition <u>eof</u> ecosystems can <u>be</u> applied, including levels of *habitat fragmentation* and connectivity:

- (c) modelled biodiversity state data: Model-based approaches are commonly used formeasuring ecosystem level indicators (e.g., extent, condition, or function). Models quantify how the magnitude of different pressures affects the state of biodiversity. These are referred to as pressure-state relationships and are based on globally collected data. Modelling results are applied locally to estimate how undertaking-level pressures will cause changes in ecosystem condition.
- AR <u>3129</u>. An impact driver generally has three main characteristics: magnitude (e.g., amount of contaminant, noise intensity), spatial extent (e.g., area of land contaminated) and temporal extent (duration of persistence of contaminant)⁶⁷.
- AR 32. The AR 30. With regard to life cycle assessment for land-use, the undertaking may refer to the "Land-use related environmental indicators for Life Cycle Assessment" by the Joint Research Center⁶⁸ or an equally established scientific approach, when disclosing on paragraph 39Center.

<u>AR 31. With regard to the AR 33. When disclosing under paragraph 43 on the introduction of</u> invasive alien species, the undertaking may refer to the guidance provided by TNFD on invasive alien species removal. The undertaking may further disclose, for example, the pathways and number of *invasive alien species* or and the extent of surface covered by invasivealien species.

- AR 34. When reporting on the state of species under paragraph:
 - (a) 44(d)i, the undertaking may consider that contribution<u>32</u>. With regard to extinction risk metrics use threat assessments and range sizes of the species present at agiven location to estimate how different activities at that location may drive species extinctions globally.
 - (b) 44(d)ii, the undertaking may consider that changes in species area of habitatmetrics measure the change in habitat size as a proxy of a change to a species population size. Indicators such as these can be used when direct population counts are not possible to obtain, however, direct in-situ population measures are preferred.
- AR 35. When disclosing under paragraph 45 on the extent and condition of *ecosystems*, the undertaking may refer to metrics and information provided by useful guidance can be found in the work of the United Nations System of Environmental Economic Accounting Ecosystem Accounting (UN SEEA EA)⁶⁹-).
- <u>AR 33.</u> The undertaking may disclose in units of area (e.g., m² or ha) on land-use using guidance provided by the Eco-Management and Audit Scheme (EMAS)⁷⁰⁶⁶:
 - (a) total use of land;
 - (b) total sealed area;
 - (c) total nature-oriented area on *site*; and
 - (d) total nature-oriented area off site.



⁵⁹ A description of the nine planetary boundaries can be found here : https://www.stockholmresilience.org/research/planetary-boundaries/the-nine-planetary-boundaries.html.

⁶⁰ Source: UNEP-WCMC, Conservational International and Fauna and Flora International, 2020.

⁶¹ Source: UNEP-WCMC, Conservational International and Fauna and Flora International, 2020.

⁶² Source: Gullison, R.E., J. Hardner, S. Anstee, M. Meyer. 2015. Good Practices for the Collection of Biodiversity Baseline Data. Prepared for the Multilateral Financing Institutions Biodiversity Working Group and Cross-Sector Biodiversity Initiative.

⁶³ Source: https://sustainabledevelopment.un.org/content/documents/11803Official-List-of-Proposed-SDG-Indicators.pdf

⁶⁴ Supplementary material in chapter 2.2 available at https://ipbes.net/global-assessment.

⁶⁵⁻Source: https://ec.europa.eu/environment/biodiversity/business/news/news-277_en.htm

⁶⁶ Source: Align (2022), "Recommendations for a standard on 8 biodiversity measurement and valuation, draft 01", unpublished.

⁶⁷ Source: Align (2022), "Recommendations for a standard on 8 biodiversity measurement and valuation, draft 01", unpublished

⁶⁸ https://epica.jrc.ec.europa.eu/upioads/QMS_H08_MonscenReff_del-land-use_FINAL.pdf

- AR <u>3734</u>. The undertaking may disclose, for example, land cover change, which is the physical representation of the drivers "habitat modification" and "industrial and domestic activities", i.e., theman-made or natural change of the physical properties of <u>Earth'sthe earth's</u> surface at a specific location. The undertaking may refer to the CDSB Biodiversity Application Guidance 2021⁷¹:
- AR 38. Land cover is a typical variable that can be assessed with earth observation data. Examples include: Validated global land-cover datasets have been produced annually since 2015 by the Copernicus Global Land Service⁷². A high-resolution alternative is ESA's WORLDCOVER⁷³ dataset, a global land cover map with a spatial resolution of 10meters. However, this dataset has so far only been generated for the year 2020, so no changes can be assessed yet, but an annual calculation is envisaged. Alternatively, the undertaking may refer to the following metrics and open-access tools: the Invest Habitat Quality Model, the Corine Land Cover, the ESRI Land Cover, the catalogue of Earth Engine Data, the Eurostat Land Use and Land Cover Survey, the habitat modification metric from the ENCORE database or the Biodiversity Intactness Index⁷⁴.
- AR 35. Land cover is a typical variable that can be assessed with earth observation data.
- AR 39. Data layers on the ranges of different species may be used to predict the species that may be present at different locations. This includes operation sites and sourcinglocations. Range layers has differing levels of accuracy depending on factors, e.g., whether species ranges have been refined based on availability of habitat. Information on the threat status of the species, and the activities that threaten them, can provide an indication of the likely contribution that business activities may be having on driving population trends and threat status.

AR 40.-36. When reporting on material impacts related to the **ecosystems** under paragraph 44,, the undertaking may, in addition to the extent and condition of ecosystems, also consider a third aspect of on the functioning of ecosystems by using:

(a) an indicatora metric that measures a process (or function) that the ecosystem completes, or that reflects the ability of the ecosystem to undertake that specific process (or function): e.g., net primary productivity, which is the measure of plant productivity that measures the rate that energy is stored by plants and made available to other species in the ecosystem. It is a core process that occurs for ecosystems to function. It is related to many factors, such as species diversity, but does not measure these factors directly; or

an indicator <u>A metric</u> that measures changes to the population of scientifically identified.

AR 41. When reporting on impacts contributing to state changes under paragraph 44, indicators for ecosystem extent and condition shall form the core of measurements but can be supplemented with species level indicators for a more complete assessment<u>under threat</u>.

(a)

(b)



⁶⁹ https://seea.un.org/ecosystem-accounting/

⁷⁰ As proposed by the COMMISSION REGULATION (EU) 2018/ 2026 of 19 December 2018 amonding Annex IV to Regulation (EC) No 1221/2009 of the European Parliament and of the Council on the voluntary participation by organisations in a Community eco-management and audit scheme (EMAS).

⁷¹ Source: https://www.cdsb.net/sites/default/files/biodiversity-application-guidance-single_disclaimer.pdf

⁷² Source: https://land.copernicus.eu/global/products/lc

⁷³ Source: https://esa-worldcover.org/en

⁷⁴ https://naturalcapitalproject.stanford.edu/software/invest,

https://land.copernicus.eu/pan-european/corine-land-cover,

https://livingatlas.arcgis.com/landcover/,

https://developers.google.com/earth-engine/datasets/tags/landcover,

https://oc.europa.eu/ourostat/statistics-explained/index.php?title=LUCAS_-_Land_use_and_land_cover_survey,

https://encore.naturalcapital.finance/en/drivers/7,

https://www.nhm.ac.uk/our-science/data/biodiversity-indicators/about-the-biodiversity-intactness-

index.html#:-:text=The%20Biodiversity%20Intactness%20Index%20(BII,given%20area%2C%20despite%20human%20impacts.)

AR 42<u>37</u>. At the ecosystem level, data layers reflecting change in the extent and condition of- *ecosystems* may be applied, including levels of *habitat fragmentation* and connectivity.

Disclosure Requirement E4-6 – Potential <u>Anticipated</u> financial effects from <u>material</u> biodiversity and ecosystem-related risks and opportunities

- AR 4338. The undertaking may include an assessment of its related products and services at risk overthe short-, medium- and long-term time horizons, explaining how these are defined, how financial amounts are estimated, and which critical assumptions are made.
- AR 44. <u>39.</u> The quantification of the potential <u>anticipated</u> financial effects in monetary terms under paragraph 4644(a) may be a single amount or a range.

⁶⁶ As proposed by the COMMISSION REGULATION (EU) 2018/ 2026 of 19 December 2018 amending Annex IV to Regulation (EC) No 1221/2009 of the European Parliament and of the Council on the voluntary participation by organisations in a Community eco-management and audit scheme (EMAS).

