



## Convention on Biological Diversity

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EXPERT WORKSHOP ON THE  
MONITORING FRAMEWORK FOR THE  
POST-2020 GLOBAL BIODIVERSITY  
FRAMEWORK

Bonn, 29 June to 1 July 2022

### **TECHNICAL ANALYSIS OF INDICATORS PROPOSED FOR THE MONITORING FRAMEWORK FOR THE POST-2020 GLOBAL BIODIVERSITY FRAMEWORK**

*Note by the Executive Secretary*

1. At the second part of the twenty-fourth meeting of the Subsidiary Body on Scientific, Technical and Technological Advice (SBSTTA-24), Parties and observers considered the proposed list of headline indicators in the draft monitoring framework for the post-2020 global biodiversity framework<sup>1</sup> under agenda item 3 of this meeting, and its outcomes are reflected in recommendation SBSTTA-24/2.<sup>2</sup> Appendix 1 of the recommendation contains a summary from the co-leads of the contact group on the proposed list of indicators for consideration in developing the monitoring framework for the post-2020 global biodiversity framework. The co-leads' summary was based on the views of Parties and observers on:

- (a) Whether the indicators were of relevance to the corresponding draft goals or target of the post-2020 global biodiversity framework;
- (b) The feasibility that the indicators can be measured at national or global scales; and
- (c) Whether the indicator is ready for use.

2. Appendix 2 of recommendation SBSTTA-24/2 comprises a list of proposed indicators suggested during the deliberations at SBSTTA-24, as additional or possible alternative indicators that could be included in the monitoring framework for the post-2020 global biodiversity framework. These proposals were not discussed in detail during SBSTTA-24.

3. The present document provides an assessment undertaken by the Executive Secretary in collaboration with the United Nations Environment Programme World Conservation Monitoring Centre (UNEP-WCMC) on Appendix 2 of Document SBSTTA-24/2. Annex 1 to this document contains a visualisation of the co-leads' summary of the views of Parties expressed at SBSTTA-24, on the proposed headline indicators. Annex 2 contains an assessment of the additional or alternative indicators, suggested by Parties and observers during SBSTTA-24 for the proposed goals of the post-2020 framework. Annex 3 contains an assessment of the additional or alternative indicators, suggested by Parties and observers during SBSTTA-24 for the proposed targets of the post-2020 framework.

<sup>1</sup> [Non-paper for Agenda Item 3](#): Non-paper proposed monitoring framework for the post-2020 global biodiversity framework

<sup>2</sup> [CBD/SBSTTA/REC/24/2](#)

4. The list of proposed indicators for potential inclusion in the monitoring framework for the post-2020 global biodiversity framework, as contained in Appendix 2 of document SBSTTA/24/2, were assessed in relation to a simplified version of the elements of the draft criteria for indicator selection detailed in Annex 1 of the same recommendation:

(a) Whether the indicator suggested by Parties are existing indicators that are available for use, or is an indicator known to be in active development (and is likely to be ready for use with the next two years), and for which data is held about the indicator<sup>3</sup>;

(b) Whether full metadata for the suggested indicator is available<sup>4</sup>;

(c) Whether there is an identified indicator custodian, or legal entity responsible for developing and providing the indicator<sup>2</sup>;

(d) Whether the indicator is used in the context of any other intergovernmental processes (other MEAs, the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) or the Sustainable Development Goals, or are peer-reviewed by the Biodiversity Indicators Partnership (BIP); and

(e) Whether a methodology for calculating the proposed indicator is available for national use.

5. During the expert workshop, breakout groups will be invited to reflect on the findings in SBSTTA/24/2 Appendix 1 and to consider the indicators in SBSTTA/24/2 Appendix 2. The discussions in the contact groups would focus on the relevance, feasibility and coherence of the indicators proposed for the monitoring framework for the post-2020 global biodiversity framework. The present document is intended to facilitate those considerations.

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<sup>3</sup> This information is provided on the basis of data, records and knowledge held by UNEP-WCMC.

<sup>4</sup> At either [CBD/SBSTTA/24/INF/38](https://www.post-2020indicators.org/) or <https://www.post-2020indicators.org/>

Annex 1

**HEADLINE INDICATORS FOR CONSIDERATION IN DEVELOPING THE MONITORING FRAMEWORK FOR THE POST-2020 GLOBAL BIODIVERSITY FRAMEWORK**

The table below is a visualisation of the co-leads’ summary of the discussions at SBSTTA-24 relating to the proposed headline indicators, as set out in Appendix 1 of SBSTTA/24/2 and the analysis of Appendix 2 of SBSSTA/24/2 which is presented in Annex 2 and 3 of this document. The analysis of Appendix 1 was not altered from how it is described in the recommendation. However, the table includes additional or alternative headline indicators from Appendix 2 which are known to be available for use now, or in development. Where new or alternative indicative indicators have been added this has been indicated in the table using the word “NEW”, these indicators are further described in Annex 2 and 3. The colour coding in the table has been simplified from what was presented in recommendations SBSTTA24/2 for presentational purposes.

Goal/ target	Headline indicator <sup>5</sup> and new additional or alternative indicators <sup>6</sup>	Assessment				
		Relevance		Nationally feasible	Globally feasible with national disaggregation	Available
		As per Appendix 1		As per Appendix 1 for existing headline indicator proposals and based on the assessment of Appendix 2 for newly proposed indicators		
A	A.0.1 Extent of [selected] natural and [seminatural and] modified [sustainable][managed] ecosystems [in all biomes of the IUCN ecosystem typology] by type [(e.g. forest, [desert,] savannahs and grasslands, wetlands, [lakes, rivers,] [alpine vegetation,] mangroves, saltmarshes, coral reef, seagrass, macroalgae and intertidal habitats)]	Amber	Green	Amber	Amber	Amber
	A.0.2 Species Habitat Index	Red	Amber	Amber	Amber	Amber
	A.0.3 Red list index (SDG 15.5.1)	Green	Green	Amber	Green	Green
	A.0.4 The proportion of populations within [umbrella] species with a [genetically] effective population size > 500	Green	Green	Amber	Red	Amber
	NEW: Change in the extent of water-related ecosystems over time (Complementary indicator a.11; SDG indicator 6.6.1)			Green	Green	Green
	NEW: Changing status of evolutionary distinct and globally endangered species (EDGE Index) (Complementary indicator a.40)			Amber	Amber	Green
	NEW: Comprehensiveness of conservation of socioeconomically as well as culturally valuable species (Complementary indicator a.51)			Green	Green	Green
	NEW: Ecosystem Intactness Index (Component indicator A.32)			Green	Green	Green
	NEW: Ecosystem Integrity Index (Component indicator A.3.1)			Amber	Amber	Red
NEW: Forest area as a proportion of total land area (Complementary indicator a.1, SDG indicator 15.1.1)			Green	Green	Green	

<sup>5</sup> [CBD/SBSTTA/24/3Add.1](#) Post-2020 global biodiversity framework: scientific and technical information to support the review of the updated goals and targets, and related indicators and baselines. Proposed indicators and monitoring approach for the post-2020 global biodiversity framework

<sup>6</sup> Proposed at SBSTTA-24, indicators that score green or amber is Annexes 1 and 2 to this document

Goal/ target	Headline indicator <sup>5</sup> and new additional or alternative indicators <sup>6</sup>	Assessment				
		Relevance	Nationally feasible	Globally feasible with national disaggregation	Available	
		As per Appendix 1	As per Appendix 1 for existing headline indicator proposals and based on the assessment of Appendix 2 for newly proposed indicators			
	NEW: Live coral cover (Complementary indicator a.13)					
	NEW: Living Planet Index (Component indicator A.4.2)					
	NEW: Proportion of populations maintained within species (Component indicator A.8.1)					
	NEW: Red List of Ecosystems (Complementary indicator a.8)					
	B.0.1 National environmental economic accounts of ecosystem services					
B	NEW: Change in the extent of water-related ecosystems over time (Complementary indicator a.11, SDG indicator 6.6.1)					
	NEW: Ecological footprint (Component indicator 15.4.1)					
	NEW: Expected loss of Phylogenetic Diversity (Complementary indicator b.1)					
	NEW: Progress towards sustainable forest management (Proportion of forest area under a long-term forest management plan) (Headline indicator 10.0.2, SDG indicator 15.2.1)					
	NEW: Proportion of agricultural area under productive and sustainable agriculture (Headline indicator 10.0.1, SDG indicator 2.4.1)					
C	C.0.1 Indicator on monetary benefits received tbc*	N/A	N/A	N/A		
	C.0.2 Indicator on non-monetary benefits tbc*	N/A	N/A	N/A		
D	D.0.1. Indicators on funding for implementation of the global biodiversity framework [available and ready to use] tbc (aligned with Target 19)*	N/A	N/A	N/A		
	D.0.2 Indicator on national biodiversity planning processes and means of implementation including IPLC engagement tbc*	N/A	N/A	N/A		
	NEW: Amount of fossil-fuel subsidies per unit of GDP (production and consumption)					
1	1.0.1 Indicator of the percentage of land and seas covered by [landscape-level] spatial [plans that integrate] [integral] biodiversity [plans] tbc*					
	NEW: Extent of selected natural and modified ecosystems by type (i.e. forest, savannahs and grasslands, wetlands, mangroves, saltmarshes, coral reef, seagrass, macroalgae and intertidal habitats) (Headline indicator A.0.1)					
2	2.0.1 [Percentage][Area] of degraded [and] [or] converted ecosystems[ that are under [ecological] restoration					
	NEW: Global Ecosystem Restoration Index (Complementary indicator T1.13.)					
3	3.0.1 [Percentage] [Coverage] of protected areas and OECMS, by effectiveness, [ecosystem type,] [KBA/EBSA status]					
	NEW: Connectivity within the system of protected areas and other effective area-based conservation measures (Component indicator 3.1.4)					
	NEW: Coverage of Protected areas and OECMS (by effectiveness) (Headline Indicator 3.0.1)					

Goal/ target	Headline indicator <sup>5</sup> and new additional or alternative indicators <sup>6</sup>	Assessment				
		Relevance	Nationally feasible	Globally feasible with national disaggregation	Available	
		As per Appendix 1	As per Appendix 1 for existing headline indicator proposals and based on the assessment of Appendix 2 for newly proposed indicators			
	NEW: IUCN Green List of Protected and Conserved Areas (Complementary indicator t3.5.)					
	NEW: Number of protected areas that have completed a site-level assessment of governance and equity (SAGE)					
	NEW: Protected area coverage of key biodiversity areas (Component indicator 3.2.1. SDG 14.5.1 and 15.1.2)					
	NEW: Protected Area Management Effectiveness (PAME) (Protected Planet) (Component indicator 3.3.1)					
	NEW: Species Protection Index (Component indicator 3.4.1)					
4	4.0.1 Proportion of species populations that are affected by human wildlife conflict [requiring intensive recovery due to human wildlife conflict]					
	4.0.2 Number of plant [and animal] genetic resources [for food and agriculture] secured in medium or long-term conservation facilities (SDG 2.5.1)					
	NEW: Green Status of Species Index (Component indicator 4.1.1)					
	NEW: Number of plant and animal genetic resources for food and agriculture secured in medium- or long-term conservation facilities (Complementary indicator t9.4. SDG indicator 2.5.1)					
	NEW: Red List Index (Headline indicator A.0.3. SDG Indicator 15.5.1)					
	NEW: The proportion of populations within species with a genetically effective population size > 500 (Headline indicator A.0.4)					
5	5.0.1 Proportion of [wildlife] [wild species][wood and plant] that is harvested and traded legally and sustainably					
	5.0.2 Proportion of fish stocks within biologically sustainable levels (SDG 14.4.1)					
	NEW: Degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing					
	NEW: Living Planet Index (Component Indicator A.4.2)					
	NEW: Proportion of local breeds classified as being at risk, extinction (Complementary indicator a.53. SDG indicator 2.5.2)					
	NEW: Proportion of traded wildlife that was poached or illicitly trafficked Component indicator 4.2.1. (SDG indicators 15.7.1 and 15.c.1)					
	NEW: Red list index (Headline indicator A.0.3. SDG Indicator 15.5.1)					
	NEW: Red List Index (for internationally traded species and for migratory species) (A.0.3 Red list index. SDG Indicator 15.5.1)					
	NEW: Trends of trade and commercialization in biodiversity-based products that is sustainable and legal (in line with BioTrade Principles and/or CITES requirements)					
NEW: Zoonotic disease in wildlife (Complementary indicator Goal b.6)						
6	6.0.1 Rate of invasive alien species spread [and rate of impact]					

Goal/ target	Headline indicator <sup>5</sup> and new additional or alternative indicators <sup>6</sup>	Assessment				
		Relevance	Nationally feasible	Globally feasible with national disaggregation	Available	
		As per Appendix 1	As per Appendix 1 for existing headline indicator proposals and based on the assessment of Appendix 2 for newly proposed indicators			
	NEW: Numbers of invasive alien species introduction events (Component indicator 6.1.1)					
	NEW: Proportion of countries adopting relevant national legislation and adequately resourcing the prevention or control of invasive alien species (Complementary indicator t5.2. SDG indicator 15.8.1)					
	NEW: Rate of invasive alien species impact (Component indicator 6.3.1)					
	NEW: Red List Index (impacts of invasive alien species) (Component Indicator 6.3.3, SDG Indicator 15.5.1)					
	NEW: Trends in abundance, temporal occurrence, and spatial distribution of non-indigenous species, particularly invasive, non-indigenous species, notably in risk areas (in relation to the main vectors and pathways of spreading of such species)					
7	7.0.1 Index of coastal eutrophication potential (excess nitrogen and phosphate loading, exported from national boundaries) [by waterbody][by basin] (SDG 14.1.1a)					
	7.0.2 Floating plastic debris density [by micro and macro plastics] (SDG 14.1.1b)					
	7.0.3 [Most hazardous] Pesticide [use] [load] [per area of cropland]					
	NEW: Amount of pesticide use per hectare					
	NEW: Red List Index (impacts of pollution) (Headline indicator A.0.3. SDG Indicator 15.5.1)					
	NEW: Red List of Ecosystems (Complementary indicator a.8.)					
	NEW: Trends in the amount of litter in the water column including microplastics and on the seafloor Index of coastal eutrophication; (b) plastic debris density NEW: Trends in Nitrogen Deposition					
8	8.0.1 National [net] green-house[emissions] [gas inventories] from land use and land use change [by land use and land use change category, subcategory, [and] natural/modified]					
	NEW: Bioclimatic Ecosystem Resilience Index (BERI) (Complementary indicator a.30)					
	NEW: Number of countries with nationally determined contributions, long-term strategies, national adaptation plans and adaptation communications that reflect biodiversity (based on information from UNFCCC and SDG 13.2.1) (Component indicator 8.1.1)					
	NEW: Species Threat Abatement and Restoration Metric (climate change)					
9	9.0.1 National environmental-economic accounts of benefits from the use of wild species					
	NEW: Degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing (Complementary indicator t5.5. SDG indicator 14.6.1).					
	NEW: Percentage of the population in traditional employment (Component indicator d9.1.2)					
	NEW: Proportion of fish stocks within biologically sustainable levels (Headline indicator 5.0.2. SDG indicator 14.4.1)					
	NEW: Proportion of wildlife that is harvested and traded legally and sustainably (Headline indicator 5.0.1)					
	NEW: Red List Index (Headline indicator A.0.3. SDG 15.5.1)					

Goal/ target	Headline indicator <sup>5</sup> and new additional or alternative indicators <sup>6</sup>	Assessment				
		Relevance	Nationally feasible	Globally feasible with national disaggregation	Available	
		As per Appendix 1	As per Appendix 1 for existing headline indicator proposals and based on the assessment of Appendix 2 for newly proposed indicators			
10	10.0.1 Proportion of agricultural area under productive and sustainable agriculture (add SDG 2.4.1)					
	10.0.2 Progress towards sustainable forest management (Proportion of forest area under a long-term forest management plan) (add SDG 15.2.1(4))					
	NEW: Agrobiodiversity Index					
	NEW: Average income of small-scale food producers, by sex and indigenous status (Component indicator 10.1.1. SDG indicator 2.3.2)					
	NEW: Number of certified forest areas under sustainable management with verified impacts on biodiversity conservation (Complementary indicator t3.12.)					
	NEW: Proportion of land that is degraded over total land area (SDG indicator 15.3.1)					
11	11.0.1 National environmental-economic accounts of regulation of air quality, quality and quantity of water, and protection from hazards and extreme events for all people, [from ecosystems][to maintain or increase relevant ecosystem services]					
	NEW: Change in the extent of water-related ecosystems over time (Complementary indicator t.11. SDG indicator 6.6.1)					
12	12.0.1 Average share of the built-up area of cities that is green/blue space for public use for all (SDG 11.7.1)					
13	13.0.1 [Percentage of countries that have] [Indicator[s] of] operational legislative, administrative or policy frameworks which [facilitate access to and] ensure fair and equitable sharing of benefits [including those based on PIC and MAT] [shared in the ABS Clearing-House] tbc*					
14	14.0.1 Extent to which national targets [have been adopted] for integrating biodiversity values [as cornerstones for implementation] into policies, regulations, planning, development processes, poverty reduction strategies [and accounts] [are established] at all levels, ensuring that biodiversity values are mainstreamed across all sectors and integrated into assessments of environmental impacts					
	14.0.2 [Number of countries with] Implementation of the System of Environmental-Economic Accounting [(SDG 15.9.1b)]					
	NEW: Value of subsidies and other incentives harmful to biodiversity, that are redirected, repurposed or eliminated (Headline indicator 18.0.1)					
15	15.0.1 [Number of companies assessing and reporting on their][Quantified volumes of ] Dependencies [and] impacts[, risks and opportunities] of businesses on biodiversity [and related human rights]					
	NEW: Ecological footprint (Component indicator 15.4.1)					
	NEW: Number of companies publishing sustainability reports(SDG Indicator 12.6.1)					

Goal/ target	Headline indicator <sup>5</sup> and new additional or alternative indicators <sup>6</sup>	Assessment				
		Relevance	Nationally feasible	Globally feasible with national disaggregation	Available	
		As per Appendix 1	As per Appendix 1 for existing headline indicator proposals and based on the assessment of Appendix 2 for newly proposed indicators			
16	16.0.2 Material footprint per capita (SDG 8.4.1/12.2.1)					
	16.0.1 Food waste index (SDG 12.3.1b)					
	NEW: Ecological footprint (Component indicator 15.4.1)					
	NEW: Extent to which (i) global citizenship education and (ii) education for sustainable development, including gender equality and human rights, are mainstreamed at all levels in: (a) national education policies, (b) curricula, (c) teacher education and (d) student assessments (Component indicator 20.2.1. SDG 4.7.1)					
	NEW: Number of countries developing, adopting or implementing policy instruments aimed at supporting the shift to SCP (SDG Indicator 12.1.1)					
	NEW: Proportion of domestic and industrial wastewater flow safely treated (Component indicator 7.1.2. SDG indicator 6.3.1)					
	NEW: Volume of production per labour unit by classes of farming/pastoral/ forestry enterprise size (Complementary indicator t9.6. SDG indicator 2.3.1)					
17	17.0.1 Indicator of [capacity and] measures in place to [prevent] manage [or] [and control] potential [adverse] impacts of [LMOs and other products from the sustainable use of biodiversity] [LMOS resulting from modern] biotechnology on biodiversity taking into account [conservation] [cultural and social economic considerations and] human health [and environment safety] tbc*					
18	18.0.1 [Percentage reduction in] [Value of] subsidies and other incentives harmful to biodiversity, that are [redirected, repurposed or][consistent with WTO rules] [or] eliminated [as a proportion of total subsidies]					
	NEW: Number of countries (and number of instruments) with payments for ecosystem services (PES) programmes					
19	19.0.1 Official development assistance for biodiversity (SDG 15.a.1)					
	19.0.2 Public [funding] [expenditure] and private [funding] [expenditure] on conservation and sustainable use of biodiversity and ecosystems [as well as development and access to innovation, technology transfer and research on innovation]					
	NEW: Foreign direct investment (FDI), official development assistance and South-South cooperation as a proportion of total domestic budget SDG Indicator 17.3.1)					
	NEW: Number of countries that have (a) Assessed values of biodiversity, in accordance with the Convention, (b) Identified and reported funding needs, gaps and priorities (c) Developed national financial plans for biodiversity; (d) Been provided with the necessary funding and capacity building to undertake the above activities;					
	NEW: Official development assistance on conservation and sustainable use of biodiversity; and (b) revenue generated and finance mobilized from biodiversity-relevant economic instruments					



Goal/ target	Headline indicator <sup>5</sup> and new additional or alternative indicators <sup>6</sup>	Assessment				
		Relevance	Nationally feasible	Globally feasible with national disaggregation	Available	
		As per Appendix 1	As per Appendix 1 for existing headline indicator proposals and based on the assessment of Appendix 2 for newly proposed indicators			
20	20.0.1 Indicator on biodiversity information and monitoring, including traditional knowledge [with FPIC][and scientific knowledge], for management tbc*					
	NEW: Extent to which (i) global citizenship education and (ii) education for sustainable development, including gender equality and human rights, are mainstreamed at all levels in: (a) national education policies, (b) curricula, (c) teacher education and (d) student assessments (Component indicator 20.2.1. SDG indicator 4.7.1)					
	NEW: Number of assessments on The IUCN Red List of Threatened Species™ (Complementary indicator t19.4.)					
21	21.0.1 [Mechanisms for the full, equitable participation of] [Indicator on [the degree to which]] indigenous peoples and local communities [respecting all their rights in particular of land, waters and resources], women and girls [in all their diversity] as well as youth [and human rights defenders] participate[ion] in decision-making related to biodiversity tbc					
	NEW: Number of countries where the legal framework (including customary law) guarantees women's equal rights to land ownership and/or control (Complementary indicator t20.6. SDG indicator 5.a.2)					
	NEW: Percentage of population who believe decision making is inclusive and responsive, by sex, age, disability and population group (Component indicator t20.1.. SDG indicator 16.7.2).					
	NEW: Proportion of total adult population with secure tenure rights to land, (a) with legally recognized documentation, and (b) who perceive their rights to land as secure, by sex and type of tenure (SDG Indicator 1.4.2)					
	NEW: Proportion of total agricultural population with ownership or secure rights over agricultural land, by sex; and (b) share of women among owners or rights-bearers of agricultural land, by type of tenure (Complementary indicator t21.5. SDG indicator 5.a.1)					
	NEW: Trends in number of environmental human rights defenders killed annually, disaggregated by country, gender; number of indigenous environmental human rights defenders killed					

*Annex 2***ALTERNATIVE OR ADDITIONAL HEADLINE INDICATORS SUGGESTED FOR DRAFT GOALS.**

In the tables in Annexes 2 and 3, the indicators<sup>7</sup> suggested by Parties and observers as additional or alternative headline indicators have been assessed according to the extent to which they meet the assessment criteria noted above, to the best of current knowledge, as follows:

- (a) **Green** – The indicator meets the assessment criteria
- (b) **Amber** – The indicator partially meets the assessment criteria
- (c) **Red** - No data or information can be found for the suggested indicator

In addition to this colour coding, the indicators shaded in light blue indicate that full or partial metadata is available for the indicator<sup>8</sup>. Indicators identified as “Data not available” refers to indicators for which information is lacking or for which details could not be verified. Indicators identified as “in development” refers to indicators that are actively being developed and are likely to be available for use within the next two years. Indicators identified as “needs development” refers to indicators that are unlikely to be available for use within the next two years.

The assessments in Annexes 2 and 3 did not account for:

- (d) the alignment or relevance of the indicators in relation to the corresponding goal or target
- (e) the feasibility (relating to the capacity) of Parties to calculate the indicator at national scale. The assessment is based on whether there is a methodology available for calculation of the indicator at national scale
- (f) the feasibility that Parties will be able to verify the data associated with the indicator. The assessment is based on whether there is a mechanism in place to allow countries to access the indicator and verify the data.

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<sup>7</sup> Where additional or alternative indicators were proposed by Parties and observers in the SBSTTA-24 contact group, but the exact name or title of that indicator matches or is very similar to an existing known indicator, the name of the existing indicator is included in the table. In instances where a new or additional indicator has been suggested but the indicator is already a proposed headline, component or complementary indicator in the draft monitoring framework, this is noted Column 4 in the tables.

<sup>8</sup> The metadata is accessible from [CBD/SBSTTA/24/INF/38](https://www.post-2020indicators.org/) or at <https://www.post-2020indicators.org/>.

				Selected metadata for existing indicators or those in active development		
1. Goal	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>9</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>10</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y) <sup>11</sup>	7. Methodology available for national use (Y/ N/ In development)
A	Change in the extent of water-related ecosystems over time		Complementary indicator a.11 (SDG indicator 6.6.1) Change in the extent of water-related ecosystems over time	Ramsar Convention on Wetlands - UNEP co custodian agencies	X	Y
A	Comprehensiveness of conservation of socioeconomically as well as culturally valuable species.		Complementary indicator a.51 Comprehensiveness of conservation of socioeconomically as well as culturally valuable species.	International Center for Tropical Agriculture (CIAT); Global Crop Diversity Trust (Crop Trust)	X	Y
A	Conservation status of migratory species (disaggregated from existing indices), as a proxy indicator of connectivity		Component indicator A.2.1 CMS connectivity indicator	CMS	Data not available	Data not available
A	Ecosystem Integrity Index		Component indicator A.3.1 Ecosystem Integrity Index	UNEP-WCMC	Y	In development
A	Ecosystem Intactness Index		Component indicator A.32 Ecosystem Intactness Index	WCS	Y	Y
A	EDGE Index		Complementary indicator a.40 Changing status of evolutionary distinct and globally endangered species (EDGE Index)	IUCN SSC Phylogenetic Diversity Task Force; ZSL	X	N
A	Forest area as a proportion of total land area		Complementary indicator a.1 Forest area as a proportion of total land area (SDG indicator 15.1.1)	FAO	X	Y
A	Live coral cover in restored coral reef areas		Complementary indicator a.13 Live coral cover	Global Coral Reef Monitoring Network	X	Y
A	Living Planet Index (LPI)		Component indicator A.4.2	ZSL/WWF	X	Y
A	Marine habitat indicator		No indicator identified	Not applicable	Not applicable	Not applicable

<sup>9</sup> Appendix 2 Document [CBD/SBSTTA/REC/24/2](#)

<sup>10</sup> [CBD/SBSTTA/24/3Add.1](#) Post-2020 global biodiversity framework: scientific and technical information to support the review of the updated goals and targets, and related indicators and baselines. Proposed indicators and monitoring approach for the post-2020 global biodiversity framework

<sup>11</sup> Any indicators that are actively being developed and are likely to be ready for use within the next two (2) years, according to data held by UNEP-WCMC

				Selected metadata for existing indicators or those in active development		
1. Goal	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>9</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>10</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y) <sup>11</sup>	7. Methodology available for national use (Y/ N/ In development)
A	Proportion of populations maintained within species		Component indicator A.8.1 Proportion of populations maintained within species	The Coalition for Conservation Genetics (collaboration between the GEOBON Genetic Composition Working Group, the IUCN Conservation Genetics Specialist Group, the SCB Conservation Genetic Working Group and the EU cost action GBIKE)	Y	In development
A	Red list of Ecosystems		Complementary indicator a.8. Red List of Ecosystems	IUCN	Y (X for some regions)	Data not available
A	UN SEEA on ecosystem condition		No indicator identified	Not applicable	Not applicable	Not applicable
B	Change in the extent of water-related ecosystems over time		Complementary indicator a.11 (SDG indicator 6.6.1) Change in the extent of water-related ecosystems over time	Ramsar Convention on Wetlands-UNEP co-custodian agencies	X	Y
B	Ecological footprint		Component indicator 15.4.1 Ecological footprint	Global Footprint Network	X	Y
B	Expected loss of Phylogenetic Diversity		Complementary indicator b.1 Expected loss of Phylogenetic Diversity	IUCN SSC Phylogenetic Diversity Task Force; Australian Museum; IPBES	Y	N
B	National and local level implementation on customary and sustainable use		No indicator identified	Not applicable	Not applicable	Not applicable
B	Number of countries with national constitution or legislation recognising a right to a healthy environment		No indicator identified	Not applicable	Not applicable	Not applicable
B	Percentage of use of biological diversity that is sustainable		No indicator identified	Not applicable	Not applicable	Not applicable
B	Processes and tools to monitor the implementation of a right to a healthy environment (e.g., included in NBSAPs and reported in national reports)		No indicator identified	Not applicable	Not applicable	Not applicable

				Selected metadata for existing indicators or those in active development		
1. Goal	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>9</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>10</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y) <sup>11</sup>	7. Methodology available for national use (Y/ N/ In development)
B	Sustainable agricultural production		Headline indicator 10.0.1 Proportion of agricultural area under productive and sustainable agriculture (SDG indicator 2.4.1)	FAO	X	Y
B	Progress towards sustainable forest management (Proportion of forest area under a long-term forest management plan)		Headline indicator 10.0.2 Progress towards sustainable forest management (Proportion of forest area under a long-term forest management plan) (SDG indicator 15.2.1)	FAO	X	Y
C	Amount of monetary benefits received under access and benefit sharing agreements - allocated to conservation and sustainable use		No indicator identified	Not applicable	Not applicable	Not applicable
C	Amount of monetary benefits received by countries from the utilization of genetic resources and their derivatives, as result of an access and benefit sharing agreement, including its associated traditional knowledge and innovations		No indicator identified	Not applicable	Not applicable	Not applicable
C	Amount of monetary benefits received by countries from the utilization of genetic resources and their derivatives, channelled to indigenous and local communities for their stewardship of biodiversity		No indicator identified	Not applicable	Not applicable	Not applicable
C	Amount of non-monetary benefits generated under access and benefit sharing agreements		No indicator identified	Not applicable	Not applicable	Not applicable
C	Amount of non-monetary benefits generated under other specialized agreements,		No indicator identified	Not applicable	Not applicable	Not applicable
C	Amount of non-monetary benefits generated for implementation of the SDGs		No indicator identified	Not applicable	Not applicable	Not applicable

				Selected metadata for existing indicators or those in active development		
1. Goal	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>9</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>10</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y) <sup>11</sup>	7. Methodology available for national use (Y/ N/ In development)
C	Fairness and equity of the allocation of benefits		No indicator identified	Not applicable	Not applicable	Not applicable
C	Indicator on participation of holders of indigenous knowledge regarding the use of access and benefit sharing		No indicator identified	Not applicable	Not applicable	Not applicable
C	Indicators of operational legislative, administrative or policy frameworks which ensure fair and equitable sharing of benefits, including those based on PIC and MAT		Headline indicator 13.0.1 Indicators of operational legislative, administrative or policy frameworks which ensure fair and equitable sharing of benefits, including those based on PIC and MAT	SCBD	Needs development	Needs development
C	Non-monetary benefits generated under access and benefit sharing agreements		No indicator identified	Not applicable	Not applicable	Not applicable
C	Number of applications for Prior and Informed Consent and MAT		No indicator identified	Not applicable	Not applicable	Not applicable
C	Number of consulted and benefited communities through APV		No indicator identified	Not applicable	Not applicable	Not applicable
C	Number of joint research papers from access and benefit sharing agreements contributing to conservation and sustainable use		No indicator identified	Not applicable	Not applicable	Not applicable
C	Number of non-monetary benefits shared under access and benefit sharing agreements as a result of utilisation of genetic resources, their derivatives and its associated traditional knowledge, practices and innovations, aimed at the conservation and sustainable use of biodiversity, human well-being, and the strengthening of technical, scientific and human capabilities of Parties		No indicator identified	Not applicable	Not applicable	Not applicable

				Selected metadata for existing indicators or those in active development		
1. Goal	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>9</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>10</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y) <sup>11</sup>	7. Methodology available for national use (Y/ N/ In development)
C	Technical transfer related to Access and Benefit Sharing indicator		No indicator identified	Not applicable	Not applicable	Not applicable
D	Alignment of all public and private financial flows with the goals and targets of the global biodiversity framework		No indicator identified	Not applicable	Not applicable	Not applicable
D	Efficient use of financial resources for biodiversity		No indicator identified	Not applicable	Not applicable	Not applicable
D	Funding for implementation of the global biodiversity framework available and ready to use		No indicator identified	Not applicable	Not applicable	Not applicable
D	Funding for implementation of the global biodiversity framework from all sources		No indicator identified	Not applicable	Not applicable	Not applicable
D	Indicator on capacity		No indicator identified	Not applicable	Not applicable	Not applicable
D	Indicator on subsidies		Amount of fossil-fuel subsidies per unit of GDP (production and consumption)	UNEP	X	Y
D	Indicator related to equity		No indicator identified	Not applicable	Not applicable	Not applicable
D	Number of countries with National Biodiversity Finance Plans		No indicator identified	Not applicable	Not applicable	Not applicable
D	National and local implementation of the Global Plan of Action on Customary Sustainable Use		No indicator identified	Not applicable	Not applicable	Not applicable
D	Number of Parties that have processes and tools to measure the right to a healthy environment		No indicator identified	Not applicable	Not applicable	Not applicable

Annex 3

**ALTERNATIVE OR ADDITIONAL HEADLINE INDICATORS SUGGESTED FOR DRAFT TARGETS<sup>12</sup>**

				Selected metadata for existing indicators or those in active development		
1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
1	Area covered by land and sea use change that is negatively affecting biodiversity		No indicator identified	Not applicable	Not applicable	Not applicable
1	Extent of selected natural and modified ecosystems (i.e. forest, savannahs and grasslands, wetlands, mangroves, saltmarshes, coral reef, seagrass, macroalgae, intertidal habitats and alpine habitats)		Headline indicator A.0.1. Extent of selected natural and modified ecosystems by type (i.e. forest, savannahs and grasslands, wetlands, mangroves, saltmarshes, coral reef, seagrass, macroalgae and intertidal habitats)	UN Statistics Division	Y	In development
1	Habitat loss due to land and sea use change		No indicator identified	Not applicable	Not applicable	Not applicable
1	Status and trends in land-use change and land tenure in the traditional territories of indigenous and local communities		No indicator identified	Not applicable	Not applicable	Not applicable
2	Global Ecosystem Restoration Index		Complementary indicator T1.13. Global Ecosystem Restoration Index	iDiv in collaboration with GEOB-BON	X	Y
2	Percentage of area of degraded or converted carbon-rich ecosystems that are under ecological restoration		No indicator identified	Not applicable	Not applicable	Not applicable
3	Coverage and effectiveness of Protected Areas and Other Effective Area-Based Conservation Measures (OECMs)		Headline Indicator 3.0.1 Coverage of Protected areas and OECMs (by effectiveness)	UNEP-WCMC/ International/ IUCN BirdLife	X	Y

<sup>12</sup> This table was prepared and formatted in the same was as the table in Annex 2.

<sup>13</sup> Appendix 2 Document [CBD/SBSTTA/REC/24/2](#)

<sup>14</sup> [CBD/SBSTTA/24/3Add.1](#) Post-2020 global biodiversity framework: scientific and technical information to support the review of the updated goals and targets, and related indicators and baselines. Proposed indicators and monitoring approach for the post-2020 global biodiversity framework



## Selected metadata for existing indicators or those in active development

1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
3	Coverage and effectiveness of Protected Areas and Other Effective Area-Based Conservation Measures (OECMs) including extent to which they prohibit harmful activities	Red	No indicator identified	Not applicable	Not applicable	Not applicable
3	Coverage of Protected Areas and Other Effective Area-Based Conservation Measures (OECM)s in accordance with the human rights approach	Yellow	Complementary indicator 3.11. Number of protected areas that have completed a site-level assessment of governance and equity (SAGE)	IIED	Y	Data pending
3	Indicator on protected area governance	Red				
3	Extent of IPLC land and waters that have a form of recognition of tenure	Red	Headline indicator 21.0.1 Indicator on the degree to which indigenous peoples and local communities, women and girls as well as youth participate in decision-making related to biodiversity	Not yet identified	Needs development	Needs development
3	Indicator associated with The Global Standard for the IUCN Green List of Protected and Conserved Areas	Yellow	Complementary indicator t3.5. IUCN Green List of Protected and Conserved Areas	IUCN	Y	Y
3	Number of people who receive training on Human Rights in relation to protected and conserved areas	Red	No indicator identified	Not applicable	Not applicable	Not applicable
3	Protected Area coverage of Key Biodiversity Areas	Green	Component indicator 3.2.1: Protected area coverage of key biodiversity areas (SDG 14.5.1 and 15.1.2)	BirdLife International, UNEP-WCMC & IUCN	X	Y
3	Protected Area Management Effectiveness (PAME) (Protected Planet)	Green	Component indicator 3.3.1 Protected Area Management Effectiveness (PAME) (Protected Planet)	UNEP-WCMC	X	Y
3	Protected Connected (ProtConn) index	Green	Component indicator 3.1.4. Connectivity within the system of protected areas and other effective area-based conservation measures	European Commission	X	Y
3	Species Protection Index	Green	Component indicator 3.4.1 Species Protection Index	Yale University	X	Y
3	The number of people to with increased awareness of their rights.	Red	Complementary indicator Goal b.27. Index of development of the standard- setting framework for the protection and promotion of culture, cultural rights and cultural diversity	Not applicable	Not applicable	Not applicable

				Selected metadata for existing indicators or those in active development		
1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
4	Green Status of Species Index		Component indicator 4.1.1 Green Status of Species Index	IUCN	Not applicable	Not applicable
4	Human wildlife conflict indicator		Headline indicator 4.0.1 Proportion of species populations that are affected by human wildlife conflict	IUCN SSC Human-Wildlife Conflict Task Force/partners	Y	Not applicable
4	Number of plant and animal genetic resources for food and agriculture secured in either medium- or long-term conservation facilities		Complementary indicator t9.4. Number of plant and animal genetic resources for food and agriculture secured in medium- or long-term conservation facilities (SDG indicator 2.5.1)	FAO	X	Y
4	Proportion of genetically distinct populations within species with a genetically effective population size > 500		Headline indicator A.0.4 The proportion of populations within species with a genetically effective population size > 500	Morton Arboretum with GEO BON/ IUCN Conservation Genetics Specialist Group	Y	In development
4	Proportion of species populations known to be negatively affected by human-wildlife conflict that have recovered		No indicator identified	Not applicable	Not applicable	Not applicable
4	Proportion of species requiring intensive recovery actions to avoid extinction that are under active recovery management		No indicator identified	Not applicable	Not applicable	Not applicable
4	Red List Index		Headline indicator A.0.3 Red list index (SDG Indicator 15.5.1)	IUCN; BirdLife International	X	Y
5	Adoption of measures to reduce illegal use		Degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing	FAO	X	Y
5	Extent to which commercial exploitation and domestic and international trade threatens human or animal health		Trends of trade and commercialization in biodiversity-based products that is sustainable and legal (in line with BioTrade Principles and/or CITES requirements)	UNCTAD	X	Y
5	Extent to which legal, illegal or otherwise permitted trade or use of wildlife (terrestrial and marine species) is ecologically sustainable		No indicator identified	Not applicable	Not applicable	Not applicable
5	Living Planet Index		<a href="#">Component Indicator A.4.2 Living Planet Index</a>	ZSL; WWF	X	Y

## Selected metadata for existing indicators or those in active development

1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
5	Proportion of local breeds classified as being at risk of extinction		Complementary indicator a.53. Proportion of local breeds classified as being at risk, extinction (SDG indicator 2.5.2)	FAO	X	Y
5	Proportion of traded wildlife that was poached or illicitly trafficked		Component indicator 4.2.1. (SDG indicators 15.7.1 and 15.c.1)	UNODC; CITES	X	Y
5	Proportion of wildlife (terrestrial and marine species) that are used or exploited in any way that is illegal, including illegal domestic and international trade					
5	Red list index on impacts of use		Headline indicator A.0.3 Red list index (SDG Indicator 15.5.1)	IUCN & BirdLife International	X	Y
5	Red list index on the impacts of fisheries					
5	Red List of the conservation status and trends for species that are or may be exploited commercially, including, but not limited to, those potentially in international trade, and the inclusion of species on the CITES and CMS Appendices as headline indicators		<a href="#">Headline indicator A.0.3 Red List Index (for internationally traded species and for migratory species) (SDG Indicator 15.5.1)</a>	IUCN & BirdLife International	X	Y
5	Sustainability of use of all species		No indicator identified	Not applicable	Not applicable	Not applicable
5	The adoption of legislation and regulations to prohibit trade and markets in certain taxonomic groups, like birds and mammals (due to the nature of the risk of pathogen spill over, that cannot be measured on a species-by-species basis).		No indicator identified	Not applicable	Not applicable	Not applicable
5	Toonage or number of individuals of wildlife that is harvested and traded legally and sustainably		Headline indicator 5.0.1 Proportion of wildlife that is harvested and traded legally and sustainably	TRAFFIC	Y	In development
5	Zoonotic diseases in wildlife		Complementary indicator Goal b.6. Zoonotic disease in wildlife	WHO	X	Y

				Selected metadata for existing indicators or those in active development		
1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
6	Extent to which measures are in place and implemented to address invasive alien species	Green	Complementary indicator t5.2 Proportion of countries adopting relevant national legislation and adequately resourcing the prevention or control of invasive alien species (SDG indicator 15.8.1)	IUCN ISSG	X	Y
6	Proportion of countries adopting relevant national legislation and adequately resourcing the prevention or control of invasive alien species					
6	Rate of introductions, spread and impact of alien invasive species (IAS)	Yellow	Component indicator 5.1.1. Numbers of invasive alien species introduction events	IUCN Species Survival Commission Invasive Species Specialist Group	X	N
6	Rate of introductions, spread and impact of alien invasive species (IAS)	Yellow	Component indicator 6.3.1 Rate of invasive alien species impact	GEO BON, iDIV sTWIST, La Trobe University	Y	In development
6	Trends in the impacts of IAS on native species and protected areas					
6	Red List Index (impacts of invasive alien species)	Green	Component Indicator 6.3.3, SDG Indicator 15.5.1	IUCN; BirdLife International	X	Y
6	Trends in pathway management of IAS	Green	Trends in abundance, temporal occurrence, and spatial distribution of non-indigenous species, particularly invasive, non-indigenous species, notably in risk areas (in relation to the main vectors and pathways of spreading of such species);	UNEP/MAP; SPA/RAC	X	Y
6	Trends in the numbers of invasive alien species introduction events	Yellow	Component indicator 6.1.1. Numbers of invasive alien species introduction events	IUCN Species Survival Commission Invasive Species Specialist Group	X	N
7	Amount and risks from microplastics in water	Yellow	Trends in the amount of litter in the water column including microplastics and on the seafloor; Index of coastal eutrophication; (b) plastic debris density	UNEP/MAP; MEDPol	X	N
7	Critical loads / toxic of nutrification and atmospheric nitrogen deposition	Green	Trends in Nitrogen Deposition	International Nitrogen Initiative	X	Y
7	Eutrophication of terrestrial, coastal and marine waters	Green	Headline indicator 7.0.1 Index of coastal eutrophication potential (excess nitrogen and phosphate loading, exported from national boundaries) SDG Indicator 14.4.1 (a)	UNEP/ IOC-UNESCO	Y	Y
7	Impacts of light and noise pollution	Red	No indicator identified	Not applicable	Not applicable	Not applicable

**Selected metadata for existing indicators or those in active development**

1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
7	Impact of pollution on biodiversity and ecosystem functions as identified in the IUCN Red List Index of Ecosystems and the IUCN Red List of Threatened Species.		Red List Index (impacts of pollution)	IUCN & BirdLife International	X	Y
7	Name, amount/volume/concentration of highly hazardous pesticides by type (per land/marine area)		Amount of pesticide use per hectare	FAO; OECD	X	Y
7	Use and risk of pesticide indicator (by risk category for biodiversity)					
7	Number of countries that have phased out highly hazardous pesticides		No indicator identified	Not applicable	Not applicable	Not applicable
7	Percentage of Parties that establish and implement risk management and mitigation measures that mitigate offsite movement of chemicals, that are harmful to the environment, to edge-of-field waterbodies and terrestrial habitats		No indicator identified	Not applicable	Not applicable	Not applicable
7	Proportion of land at or below critical nitrogen deposition load levels		No indicator identified	Not applicable	Not applicable	Not applicable
7	Red List Index		Headline indicator A.0.3 Red List Index (SDG indicator 15.5.1.)	IUCN; BirdLife International	X	Y
7	Red List of Ecosystems Index		Complementary indicator a.8. Red List of Ecosystems	IUCN	Y (X for some regions)	Data pending
7	Toxicity or toxic load of pesticides		No indicator identified	Not applicable	Not applicable	Not applicable
8	Bioclimatic Ecosystem Resilience Index		Complementary indicator a.30 Bioclimatic Ecosystem Resilience Index (BERI)	CSIRO	X	Y
8	Carbon stock in natural habitats by habitat type		No indicator identified	Not applicable	Not applicable	Not applicable
8	Contribution of intact ecosystems to carbon storage		No indicator identified	Not applicable	Not applicable	Not applicable

				Selected metadata for existing indicators or those in active development		
1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
8	Indicator on impact of climate change on biodiversity		No indicator identified	Not applicable	Not applicable	Not applicable
8	Indicator on measuring the minimization of impact of climate change on biodiversity		Species Threat Abatement and Restoration Metric (climate change)	Pilot availability through IBAT (which is maintained by BirdLife, CI, IUCN, UNEP-WCMC)	Y	Y
8	Land use change and land tenure in the traditional territories of indigenous peoples and local communities by sex and type of tenure		No indicator identified	Not applicable	Not applicable	Not applicable
8	Number of countries implementing safeguard policies on biodiversity and finance		No indicator identified	Not applicable	Not applicable	Not applicable
8	Number of countries that have integrated biodiversity into Nationally Determined Contributions		Component indicator 8.1.1 Number of countries with nationally determined contributions, long-term strategies, national adaptation plans and adaptation communications that reflect biodiversity (based on information from UNFCCC and SDG 13.2.1)	UNFCCC	X	Y
8	Number of countries with nationally determined contributions, long-term strategies, national adaptation plans and adaptation communications that reflect biodiversity (based on information from UNFCCC)					
8	Number of ecosystem-based adaptation (EBA) initiatives in NBSAPs		No indicator identified	Not applicable	Not applicable	Not applicable
8	Number of endemic and priority species vulnerable to climate change		No indicator identified	Not applicable	Not applicable	Not applicable
8	Number of initiatives and partnerships with IPLCs contributing to Nationally Determined Contributions and Disaster Risk Reduction strategies		No indicator identified	Not applicable	Not applicable	Not applicable
8	Percentage of agricultural system that are positive for the climate		No indicator identified	Not applicable	Not applicable	Not applicable

**Selected metadata for existing indicators or those in active development**

1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
8	Restoration of carbon rich habitats		No indicator identified	Not applicable	Not applicable	Not applicable
8	Sequestration of carbon by blue carbon initiatives		No indicator identified	Not applicable	Not applicable	Not applicable
8	Status and trends in land-use change and land tenure in the traditional territories of indigenous and local communities;		No indicator identified	Not applicable	Not applicable	Not applicable
8	Trends in extent and condition of carbon rich ecosystems or areas providing carbon sequestration		No indicator identified	Not applicable	Not applicable	Not applicable
9	Measures of progress of implementation of the Tasks in the Plan of Action on Customary Sustainable Use of Biodiversity		No indicator identified	Not applicable	Not applicable	Not applicable
9	Number of national instruments established to address or combat illegal, unreported and unregulated fishing		Complementary indicator t5.5 Degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing (SDG indicator 14.6.1).	FAO	Y	Y
9	Number of people using wild resources for energy, food, or culture		Component indicator 9.1.1 Number of people using wild resources for energy, food or culture (including firewood collection, hunting and fishing, gathering, medicinal use, craft making, etc.)	Data not available	Data not available	Data not available
9	Number of species and habitats under sustainable management		No indicator identified	Not applicable	Not applicable	Not applicable
9	Proportion of fish stocks within biological sustainable levels		Headline indicator 5.0.2 Proportion of fish stocks within biologically sustainable levels (SDG indicator 14.4.1)	FAO	X	N
9	Red List Index		Headline indicator A.0.3 Red List Index (SDG 15.5.1)	IUCN; BirdLife International	X	Y
9	Status and trends in the practice of traditional occupations labour statistics		Component indicator d9.1.2 Percentage of the population in traditional employment	Forest Peoples Programme	X	N
9	Trends in harvested species under biologically sustainable levels		Headline indicator 5.0.1 Proportion of wildlife that is harvested and traded legally and sustainably	TRAFFIC	Y	In development
9	Trends in in conservation status of vulnerable species		No indicator identified	Not applicable	Not applicable	Not applicable
9	Zoonotic and human-animal interface index		No indicator identified	Not applicable	Not applicable	Not applicable

				Selected metadata for existing indicators or those in active development		
1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
10	Average income of small-scale food producers, by sex and indigenous status		Component indicator 10.1.1. Average income of small-scale food producers, by sex and indigenous status (SDG indicator 2.3.2)	FAO	X	Y
10	Proportion of land that is degraded over total land area		Proportion of land that is degraded over total land area (SDG indicator 15.3.1)	UNCCD	X	Y
10	Area dedicated to agroecology and other biodiversity conservation and restoration plans		Agrobiodiversity Index	Alliance Bioversity; CIAT	Y	Y
10	Use of agro-biodiversity-supportive practices					
10	Area incorporated into restoration, conservation and sustainable land use programs		No indicator identified	Not applicable	Not applicable	Not applicable
10	Area managed under organic and sustainable forestry certification schemes		Complementary indicator t3.12. Number of certified forest areas under sustainable management with verified impacts on biodiversity conservation	FSC	X	Y
10	Areas under sustainable management in all sectors		No indicator identified	Not applicable	Not applicable	Not applicable
10	Number of non-timber exploitation permits.		No indicator identified	Not applicable	Not applicable	Not applicable
10	Progress towards sustainable forest management		Headline indicator 10.0.2 Progress towards sustainable forest management (Proportion of forest area under a long-term forest management plan) (SDG indicator 15.2.1)	FAO	X	Y
10	Proportion of new conversion of land from natural to cultivated areas		No indicator identified	Not applicable	Not applicable	Not applicable
10	Proportion of productive area with targeted environmental safeguard for biodiversity		No indicator identified	Not applicable	Not applicable	Not applicable
10	Wildlife habitat capacity within agricultural landscapes		No indicator identified	Not applicable	Not applicable	Not applicable
11	Indicators on nature-based solutions		No indicator identified	Not applicable	Not applicable	Not applicable



## Selected metadata for existing indicators or those in active development

1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
11	The share of investments made in development projects to promote ecosystem-based approaches to improve air and water quality and protection against risks		No indicator identified	Not applicable	Not applicable	Not applicable
11	Trends in loss of land		No indicator identified	Not applicable	Not applicable	Not applicable
11	Trends in water quality and quantity		Complementary indicator t.11. Change in the extent of water-related ecosystems over time (SDG indicator 6.6.1)	Ramsar Convention on Wetlands - UNEP co-custodian agencies	X	Y
11	Trends of ecosystem areas providing regulation ecosystem services (to be decomposed by ecosystem services and ecosystems)		No indicator identified	Not applicable	Not applicable	Not applicable
12	City Biodiversity Index (Singapore Index)		No indicator identified	Not applicable	Not applicable	Not applicable
12	Structural and functional connectivity of urban areas		No indicator identified	Not applicable	Not applicable	Not applicable
13	Number of prosecutions from biopiracy, or illegal access to genetic resources		No indicator identified	Not applicable	Not applicable	Not applicable
14	Dependencies and impacts of businesses on biodiversity		Headline indicator 15.0.1 Dependencies and impacts of businesses on biodiversity	Not yet identified	Needs Development	Needs Development
14	Number of policies in sectors other than biodiversity that integrate biodiversity values and priorities		No indicator identified	Not applicable	Not applicable	Not applicable
14	Number or share of countries, local government and private companies integrating biodiversity and ecosystem service into their policy action plans of environmental management system (i.e. ISO 14001) or commitments relevant to concrete actions		No indicator identified	Not applicable	Not applicable	Not applicable
14	The number of countries that adopt nature positive sectoral plans of action.		No indicator identified	Not applicable	Not applicable	Not applicable

				Selected metadata for existing indicators or those in active development		
1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
14	the number of countries that apply a whole of government and whole of society approach for the development, reviews, and implementation of the NBSAPs		No indicator identified	Not applicable	Not applicable	Not applicable
14	Value of subsidies and other incentives harmful to biodiversity, that are redirected, repurposed or eliminated*		Headline indicator 18.0.1 Value of subsidies and other incentives harmful to biodiversity, that are redirected, repurposed or eliminated	OECD	X	Y
15	Dependencies and impacts of businesses on biodiversity and related human rights		No indicator identified	Not applicable	Not applicable	Not applicable
15	Ecological Footprint		Component indicator 15.4.1 Ecological footprint	Global Footprint Network	X	Y
15	Extent of natural vegetation/terrestrial ecosystems converted due to commodity/soft production		No indicator identified	Not applicable	Not applicable	Not applicable
15	Indicator on dependencies, impacts, risks, and opportunities from the Taskforce on Nature-related Financial Disclosures (TNFD)		No indicator identified	Not applicable	Not applicable	Not applicable
15	Number of companies assessing and reporting on their net impact on biodiversity		Component indicator 15.1 Businesses assess and report on their dependencies and impacts on biodiversity	Not applicable	Not applicable	Not applicable
15	Number of companies publishing sustainability reports		Number of companies publishing sustainability reports (SDG Indicator 12.6.1)	UNCTAD; UNEP	X	Y
15	Number of companies that comply with access and benefit sharing requirements and report on these		No indicator identified	Not applicable	Not applicable	Not applicable
15	Number of countries that have legislation to make sure that companies report on their impacts		No indicator identified	Not applicable	Not applicable	Not applicable

## Selected metadata for existing indicators or those in active development

1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
15	Number of production sectors in each country that use biodiversity includes certification schemes or biodiversity practice guidelines		No indicator identified	Not applicable	Not applicable	Not applicable
15	Percentage of Parties that have regulatory frameworks that require businesses to assess and report their impact on biodiversity and on the rights of IPLCs.		No indicator identified	Not applicable	Not applicable	Not applicable
15	Policies and measures in place that prevent and regulate impacts on biodiversity and biodiversity related human rights.		No indicator identified	Not applicable	Not applicable	Not applicable
15	Proportion of total revenue, of business (a) assessing and disclosing material biodiversity impacts and dependencies of their operations and supply chains through quantitative metrics; (b) having set science-based targets for nature; and (c) having set science-based targets for climate		No indicator identified	Not applicable	Not applicable	Not applicable
15	Proportion per total revenue of total businesses reporting dependencies and impacts for biodiversity and having set science based targets for nature		No indicator identified	Not applicable	Not applicable	Not applicable
16	Biodiversity Barometer		No indicator identified	Not applicable	Not applicable	Not applicable
16	Ecological footprint		Component indicator 15.4.1 Ecological footprint	Global Footprint Network	X	Y
16	Extent to which (i) global citizenship education and (ii) education for sustainable development are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment		Component indicator 20.2.1 Extent to which (i) global citizenship education and (ii) education for sustainable development, including gender equality and human rights, are mainstreamed at all levels in: (a) national education policies, (b) curricula, (c) teacher education and (d) student assessments (SDG 4.7.1)	UNESCO	X	Y

				Selected metadata for existing indicators or those in active development		
1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
16	Global environmental impacts of consumption		No indicator identified	Not applicable	Not applicable	Not applicable
16	Hazardous waste generated per capita; and (b) proportion of hazardous waste treated, by type of treatment		Component indicator 7.1.2 Proportion of domestic and industrial wastewater flow safely treated (SDG indicator 6.3.1)	UNEP; UNSD	X	Y
16	Land footprint per kilogram of protein		No indicator identified	Not applicable	Not applicable	Not applicable
16	Number of CITIES permits for legal import of trophies for listed species		No indicator identified	Not applicable	Not applicable	Not applicable
16	Number of countries developing, adopting, or implementing policy instruments aimed at supporting the shift to sustainable consumption and production		Number of countries developing, adopting or implementing policy instruments aimed at supporting the shift to SCP (SDG Indicator 12.1.1)	UNEP	X	Y
16	Percentage of Parties that have established effective regulatory frameworks and other measures to ensure that consumer choices are within sustainable parameters		No indicator identified	Not applicable	Not applicable	Not applicable
16	Progress towards healthy and sustainable diets (food consumption survey , land footprint per kg of protein)		No indicator identified	Not applicable	Not applicable	Not applicable
16	Volume of production per labour unit by classes of farming/pastoral/forestry enterprise size		Complementary indicator t9.6. Volume of production per labour unit by classes of farming/pastoral/ forestry enterprise size (SDG indicator 2.3.1)	FAO	X	Y
17	Biotechnology development that are being used that contribute to conservation and sustainable uses of biodiversity as well as human well being		No indicator identified	Not applicable	Not applicable	Not applicable
17	Capacity and measures in place to prevent, manage and control adverse impacts of biotechnology		No indicator identified	Not applicable	Not applicable	Not applicable

**Selected metadata for existing indicators or those in active development**

1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
17	Indicator of measures in place to prevent, manage and control potential adverse impacts of biotechnology on biodiversity taking into account human rights, human health and social and cultural considerations	[Red]	Headline indicator 17.0.1 Indicator of measures in place to prevent, manage and control potential adverse impacts of biotechnology on biodiversity taking into account human health	Needs development	Needs development	Needs development
17	Indicator on the establishment or maintenance of the means to regulate, manage, or control the risks associated with the use and release of living modified organisms resulting from biotechnology which are likely to have adverse environmental impacts that could affect the conservation and sustainable use of biological diversity, taking also into account the risks to human health;					
17	Number of countries that carry out scientifically sound assessments on the release of LMOs resulting from application of modern biotechnology and recombinant DNA techniques	[Red]	No indicator identified	Not applicable	Not applicable	Not applicable
17	Number of countries that have the necessary measures in place to carry out horizon scanning monitoring and assessment	[Red]	No indicator identified	Not applicable	Not applicable	Not applicable
18	Amount of financial savings channelled to IPLCs, women and other vulnerable groups	[Red]	No indicator identified	Not applicable	Not applicable	Not applicable
18	Indicator on subsidy reform	[Red]	No indicator identified	Not applicable	Not applicable	Not applicable
18	Number of economic measures in place to protect biodiversity	[Red]	No indicator identified	Not applicable	Not applicable	Not applicable
18	Payment of ecosystem services	[Green]	Number of countries (and number of instruments) with payments for ecosystem services (PES) programmes	OECD	Y	Y

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18	Positive incentives (by type) in place to promote biodiversity conservation and sustainable use		No indicator identified	Not applicable	Not applicable	Not applicable
18	Total value of harmful subsidies compared with the value of subsidies that have been redirected, repurposed or eliminated		No indicator identified	Not applicable	Not applicable	Not applicable
19	Amount of funds provided for the Global Multilateral Benefit-Sharing mechanism		No indicator identified	Not applicable	Not applicable	Not applicable
19	Amount of targeted, additional and economically sustainable financial flows, including ODA, grants and concessional loans for nationally determined biodiversity objectives'		No indicator identified	Not applicable	Not applicable	Not applicable
19	Domestic and international public and private flows for biodiversity		Official development assistance on conservation and sustainable use of biodiversity; and (b) revenue generated and finance mobilized from biodiversity-relevant economic instruments	OECD	X	Y
19	Earmarked biodiversity funding at all levels for IPLCs as a percentage of overall public and private flows		No indicator identified	Not applicable	Not applicable	Not applicable
19	Foreign direct investment, official development assistance and South-South cooperation as a proportion of gross national income		Foreign direct investment (FDI), official development assistance and South-South cooperation as a proportion of total domestic budget (SDG Indicator 17.3.1)	OECD; UNCTAD	X	Y
19	indicator that measures alignment of private and public financial flows on biodiversity		No indicator identified	Not applicable	Not applicable	Not applicable
19	Number of national biodiversity finance plans or similar instruments		Complementary indicator t18.2. Amount and composition of biodiversity-related finance reported to the OECD Creditor reporting system	Not applicable	Not applicable	Not applicable

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19	Public expenditure and private expenditure on conservation and sustainable use of biodiversity and ecosystems as well as development and access to innovation, technical transfer and resource collaboration.		No indicator identified	Not applicable	Not applicable	Not applicable
19	Ratio of debt servicing to government spending		No indicator identified	Not applicable	Not applicable	Not applicable
19	The amount of grants to IPLCs for conservation services		No indicator identified	Not applicable	Not applicable	Not applicable
19	The number of expressed priority needs for capacity building and development, technological/technical development for the global biodiversity framework submitted by developing countries in the clearing house mechanisms that have received the capacity and development, technological/technical development requested		Number of countries that have (a) Assessed values of biodiversity, in accordance with the Convention, (b) Identified and reported funding needs, gaps and priorities (c) Developed national financial plans for biodiversity; (d) Been provided with the necessary funding and capacity building to undertake the above activities;	Secretariat of the CBD	X	Y
19	Value of commercialization of natural products		No indicator identified	Not applicable	Not applicable	Not applicable
19	Value of debt for nature swaps		No indicator identified	Not applicable	Not applicable	Not applicable
20	Degree to which traditional knowledge of IPLCs is promoted and widely applied in policy making, planning and decision making/ implementation for biodiversity		Trends in degree to which traditional knowledge and practices are respected through: full integration, participation and safeguards in national implementation of the Strategic	CBD Secretariat	Y	Data not available

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20	Extent to which (i) global citizenship education and (ii) education for sustainable development, including gender equality and human rights, are mainstreamed at all levels in: (a) national education policies, (b) curricula, (c) teacher education and (d) student assessments		Component indicator 20.2.1 (SDG indicator 4.7.1)	UNESCO	X	Y
20	Extent to which biodiversity is included in education		No indicator identified	Not applicable	Not applicable	Not applicable
20	Extent to which national biodiversity strategies and action plans (NBSAPs), Nationally Determined Contributions (NDCs) and national development plans reflect traditional knowledge, innovation and practices with appropriate safeguards		No indicator identified	Not applicable	Not applicable	Not applicable
20	Growth in number of records in GBIF		Component indicator 9.1.4. Growth in Species Occurrence Records Accessible Through GBIF	Not applicable	Not applicable	Not applicable
20	Indicator on free prior and informed requests to IPLCs		No indicator identified	Not applicable	Not applicable	Not applicable
20	Number of assessments in The IUCN Red List of Threatened Species		Complementary indicator t19.4. Number of assessments on The IUCN Red List of threatened Species <sup>TM</sup>	IUCN	X	Y
20	Proportion of public policies based on biodiversity information and monitoring		No indicator identified	Not applicable	Not applicable	Not applicable
21	(a) Proportion of total agricultural population with ownership or secure rights over agricultural land, by sex; and (b) share of women among owners or rights bearers of agricultural land, type of tenure		Complementary indicator t21.5 Proportion of total agricultural population with ownership or secure rights over agricultural land, by sex; and (b) share of women among owners or rights-bearers of agricultural land, by type of tenure (SDG indicator 5.a.1)	FAO	X	Y



## Selected metadata for existing indicators or those in active development

1.Target	2. New or alternative headline indicator proposed by Parties during SBSTTA-24 <sup>13</sup>	3. Assessment	4. Indicator suggestion as listed in draft monitoring framework <sup>14</sup> or data resources	5. Responsible Institution	6. Available today (X) or under active development (Y)	7. Methodology available for national use (Y/N/ in development)
21	Ensuring women's legal rights to land ownership and/or control		Complementary indicator t20.6 Number of countries where the legal framework (including customary law) guarantees women's equal rights to land ownership and/or control (SDG indicator 5.a.2)	FAO	X	Y
21	Number of countries that recognize IPLCs in their NBSAPs		No indicator identified	Not applicable	Not applicable	Not applicable
21	Number of countries that recognize the right to a healthy environment through their constitutions, legislation or as parties to legally binding regional treaties		No indicator identified	Not applicable	Not applicable	Not applicable
21	Number of countries where the legal framework respects/guarantees the rights of indigenous peoples, women and girls, over their land, waters and resources, in relation to biodiversity planning and decision-making		Complementary indicator t20.6 Number of countries where the legal framework (including customary law) guarantees women's equal rights to land ownership and/or control	Not applicable	Not applicable	Not applicable
21	Number of countries with a gender focal point		No indicator identified	Not applicable	Not applicable	Not applicable
21	Number of environmental defenders killed		Trends in number of environmental human rights defenders killed annually, disaggregated by country, gender; number of indigenous environmental human rights defenders killed	Global Witness	X	Y
21	Number of mechanisms for the full equitable and informed consent in decision making, established, enhanced and implemented		No indicator identified	Not applicable	Not applicable	Not applicable
21	Number of Parties for which national reports and/or NBSAPs include gender considerations		No indicator identified	Not applicable	Not applicable	Not applicable
21	Proportion of population who believe decision-making is inclusive and responsive, by sex, age, disability and population group		Component indicator t20.1. Percentage of population who believe decision making is inclusive and responsive, by sex, age, disability and population group (SDG indicator 16.7.2).	UNDP Oslo Governance Centre	Y	Y

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21	Proportion of total adult population with secure tenure rights to land, (a) with legally recognized documentation, and (b) who perceive their rights to land as secure, by sex and type of tenure		SDG Indicator 1.4.2 Proportion of total adult population with secure tenure rights to land, (a) with legally recognized documentation, and (b) who perceive their rights to land as secure, by sex and type of tenure	UN Habitat; World Bank	X	Y
21	Secure access and use of waters for IPLCs, particularly women and youth		No indicator identified	Not applicable	Not applicable	Not applicable
21	Trends in equitable participation in biodiversity-related decision making disaggregated by IPLCs, women and girls, youth.		No indicator identified	Not applicable	Not applicable	Not applicable
21	Trends in land-use change and secure land tenure in the traditional territories of indigenous and local communities		No indicator identified	Not applicable	Not applicable	Not applicable