

ポスト 2020 生物多様性枠組（GBF）0.2 案における目標案及び指標案の一式（英語）
 （CBD の SBSTTA24 の会議文書 CBD/SBSTTA/24/3 の Annex より）

2050 Goals, milestones and Targets ¹	Headline indicators ²	Components of the Goals and Targets ³	Component indicators ⁴	Complementary indicators ⁵
<p>Goal A: The area, connectivity and integrity of natural ecosystems increased by at least [X%] supporting healthy and resilient populations of all species while reducing the number of species that are threatened by [X%] and maintaining genetic diversity;</p> <p>2030 Milestones: (i) The area, connectivity and integrity of natural systems increased by at least [5%]. (ii) The number of species that are threatened is reduced by [X%] and the abundance of species has</p>	<p>A.0.1 Extent of selected natural ecosystems (forest, savannahs and grasslands, wetlands, mangroves, saltmarshes, coral reef, seagrass, macroalgae and intertidal habitats)</p> <p>A.0.2 Living Planet Index</p> <p>A.0.3 Red list index</p> <p>A.0.4 Species habitat index</p> <p>A.0.5 The proportion of populations maintained within species*</p>	<p>A.1. Increased extent of natural ecosystems (terrestrial, freshwater and marine ecosystems)</p> <p>A.2. Ecosystem integrity and connectivity (terrestrial, freshwater and marine ecosystems)</p> <p>A.3. Prevent extinction and improve the conservation status of species</p> <p>A.4. Increase the population and health of species</p> <p>A.5. Maintain genetic diversity</p> <p>A.6. Protection of critical ecosystems</p>	<p>A.1.1. Extent of natural ecosystem (A.0.1) by type</p> <p>A.1.2. Ecosystem Integrity Index</p> <p>A.1.3. Proportion of land that is degraded over total land area (SDG indicator for SDG 15.3.1)</p> <p>A.1.4. Red list index by species group (including for terrestrial, freshwater and marine species)</p> <p>A.1.5. Number of species extinctions by species group (including for terrestrial, freshwater and marine species)</p> <p>A.1.6. Species habitat index by species group</p> <p>A.1.7. The proportion of populations maintained within species (A.0.5) by species group</p> <p><i>Protection indicators are captured in the Targets</i></p>	<p>A.1.1.1. Forest area as a proportion of total land area (SDG indicator 15.1.1)</p> <p>A.1.1.2. Forest distribution</p> <p>A.1.1.3. Tree cover loss</p> <p>A.1.1.4. Grassland and savannah extent</p> <p>A.1.1.5. Mountain Green Cover Index</p> <p>A.1.1.6. Peatland extent and condition</p> <p>A.1.1.7. Permafrost thickness, depth and extent</p> <p>A.1.1.8. Red List of Ecosystems</p> <p>A.1.1.9. Continuous Global Mangrove Forest Cover</p> <p>A.1.1.10. Trends in mangrove forest fragmentation</p> <p>A.1.1.11. Change in the extent of water-related ecosystems over time (SDG indicator 6.6.1)</p> <p>A.1.1.12. Trends in mangrove extent</p> <p>A.1.1.13. Live coral cover</p> <p>A.1.1.14. Hard Coral cover and composition</p>

¹ The 2050 goals and 2030 milestones and targets are as proposed in document CBD/POST2020/PREP/2/1.

² The headlines indicators are the same as in document CBD/SBSTTA/24/3.

³ These components are unchanged from those presented in the documentation related to notification 020-024.

⁴ Links to relevant headline indicators as well as to indicators for the Sustainable Development Goals have been noted where relevant.

⁵ Links to relevant headline indicators as well as to indicators for the Sustainable Development Goals have been noted where relevant.

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increased on average by [X%].				A.1.1.15. Global coral reef extent A.1.1.16. Global Seagrass Extent (Seagrass Cover and composition) A.1.1.17. Global saltmarsh extent A.1.1.18. Kelp canopy extent A.1.1.19. Macroalgal Canopy Cover and Composition A.1.1.20. Cover of key benthic groups A.1.1.21. Fleshy algae cover A.1.1.22. Wetland Extent Trends Index A.1.1.23. Change in the extent of inland water ecosystems over time A.1.1.24. Change in the extent of water related ecosystems (SDG Indicator 6.6.1) A.1.1.25. Forest Fragmentation Index A.1.1.26. Forest Landscape Integrity Index A.1.1.27. Biomass of selected natural ecosystems (A.0.2) A.1.1.28. Biodiversity Habitat Index A.1.1.29. Global Vegetation Health Products A.1.1.30. Bioclimatic Ecosystem Resilience Index (BERI) A.1.1.31. Relative Magnitude of Fragmentation (RMF) A.1.1.32. Ecoregion Intactness Index A.1.1.33. Biodiversity Intactness Index A.1.1.34. Ocean Health Index

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				<p>A.1.1.35. Extent of physical damage indicator to predominant seafloor habitats physical damage</p> <p>A.1.1.36. Wetland Extent Trends Index</p> <p>A.1.1.37. River Fragmentation Index</p> <p>A.1.1.38. Dendritic Connectivity Index</p> <p>A.1.1.39 Percentage of threatened species that are improving in status according to the Red List</p> <p>A.1.1.40. EDGE Index</p> <p>A.1.1.41. Number of threatened species by species group</p> <p>A.1.1.42. Wild bird index</p> <p>A.1.1.43. Mean Species Abundance (MSA)</p> <p>A.1.1.44. Species Protection Index</p> <p>A.1.1.45. Changes in plankton biomass and abundance</p> <p>A.1.1.46. Fish abundance and biomass</p> <p>A.1.1.47. The number of populations (or breeds) within species with an effective population size > 500 compared to the number < 500</p> <p>A.1.1.48. Genetic scorecard for wild species</p> <p>A.1.1.49. Species richness/Changes in local terrestrial diversity (PREDICTS)</p> <p>A.1.1.50. Marine species richness</p> <p>A.1.1.51. Comprehensiveness of conservation of socioeconomically as well as culturally valuable species.</p>

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				<p>A.1.1.52. Number of plant and animal genetic resources for food and agriculture secured in either medium- or long-term conservation facilities (SDG 2.5.1)</p> <p>A.1.1.53. Proportion of local breeds classified as being at risk, extinction</p> <p>A.1.1.54. Red List Index (wild relatives of domesticated animals)</p> <p>A.1.1.55. Protection indicators are captured in the Targets</p>
<p>Goal B: Nature's contributions to people have been valued, maintained or enhanced through conservation and sustainable use supporting global development agenda for the benefit of all people;</p> <p>2030 Milestones: (i) Nature contributes to the sustainable diets and food security, access to safe drinking water and resilience to natural disasters for at least [X%] million people. (ii) Nature is valued through green investments, ecosystem service</p>	<p>B.0.1 Population benefiting from ecosystem services*</p> <p>B.0.2 Value of all final ecosystem services (Gross Ecosystem Product)*</p>	<p>B.1. Nature's regulating contributions including climate regulation, disaster prevention and others</p> <p>B.2. Nature's material contributions, including food, water and others</p> <p>B.3. Nature's non-material contributions including cultural</p>	<p>B.1.1. Population benefiting from ecosystem services (B.0.1) by type of ecosystem service</p> <p>B.1.2. Additional indicators are captured in Targets 6-11 Headline indicators and across the framework</p> <p>B.1.3. Value of all final ecosystem services (Gross Ecosystem Product) (B.0.2) for material service-related ecosystem services</p> <p>B.1.4. Natural capital component of inclusive wealth</p> <p>B.1.5. Value of all final ecosystem services (Gross Ecosystem Product) (B.0.2) for non-material service-related ecosystem services</p>	<p>B.1.1.1. Expected loss of Phylogenetic Diversity (IPBES phylogenetic diversity indicator)</p> <p>B.1.1.2. Red List Index (pollinating species)</p> <p>B.1.1.3. Green status index (pollinators)</p> <p>B.1.1.4. Air quality index</p> <p>B.1.1.5. Air pollution emissions account</p> <p>B.1.1.6. Zoonotic disease in wildlife</p> <p>B.1.1.7. Climatic impact index</p> <p>B.1.1.8. Ocean acidification (SDG 14.3.1)</p> <p>B.1.1.9. Level of water stress: freshwater withdrawal as a proportion of available freshwater resources</p> <p>B.1.1.10. Proportion of bodies of water with good ambient water quality (SDG indicator 6.3.2)</p> <p>B.1.1.11. Eflow index</p> <p>B.1.1.12. Change in the quality of inland water ecosystems over time</p>

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valuation in national accounts, and public and private sector financial disclosures.				B.1.1.13. Change in the quality of coastal water ecosystems over time B.1.1.14. Level of erosion B.1.1.15. Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population (SDG indicator 11.5.1) B.1.1.16. Intact wilderness B.1.1.17. Biofuel production B.1.1.18. Maximum fish catch potential B.1.1.19. Population involved in hunting and gathering B.1.1.20. Prevalence of moderate or severe food insecurity in the population, based on the Food Insecurity Experience Scale B.1.1.21. Forestry Production & Trade (Wood Fuel) B.1.1.22. Trends in the legal trade of medicinal plants B.1.1.23. Visitor management assessment B.1.1.24. Number of formal and non-formal education programmes transmitting spiritual and cultural values in the UNESCO World Network of Biosphere Reserves B.1.1.25. Number of mixed sites (having both natural and cultural Outstanding Universal Values), cultural landscapes (recognized as combined works of nature and people) and natural sites with cultural values including those supporting local and indigenous knowledge and practices

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				inscribed on the UNESCO World Heritage List and UNESCO World Network of Biosphere Reserves B.1.1.26. Index of Linguistic Diversity - Trends of linguistic diversity and numbers of speakers of indigenous languages B.1.1.27. Index of development of the standard- setting framework for the protection and promotion of culture, cultural rights and cultural diversity B.1.1.28. Cultural vitality index B.1.1.29. UNESCO Culture 2030 (multiple indicators)
<p>Goal C: The benefits, from the utilization of genetic resources are shared fairly and equitably;</p> <p>2030 Milestones: (i) Access and benefit-sharing mechanisms are established in all countries. (ii) Benefits shared increased by [X%].</p>	<p>C.0.1 Amount of monetary benefits (in United States dollars) received by countries from utilization of genetic resources as a result of an ABS agreement, including traditional knowledge</p> <p>C.0.2 Number of research and development results or publications shared as a result of an ABS agreement</p>	<p>C.1. Access to Genetic resources</p> <p>C.2. Sharing of the benefits</p>	<p>C.1.1. Amount of monetary benefits received by countries from utilization of genetic resources as a result of an ABS agreement, including traditional knowledge (C.0.1) by beneficiary type</p> <p>C.1.2. Number of research and development results or publications shared as a result of an ABS agreement (C.0.2) by beneficiary type</p>	<p>C.1.1.1. Number of users that have provided information relevant to the utilization of genetic resources to designated checkpoints</p> <p>C.1.1.2. Total number of internationally recognized certificates published in the APB Clearing-House</p> <p>C.1.1.3. Number of checkpoint communiqués published in the ABS Clearing-House</p> <p>C.1.1.4. Number of internationally recognized certificates of compliance for non-commercial purposes</p>

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<p>Goal D: Means of implementation are available to achieve all goals and targets in the framework.</p> <p>2030 Milestones: (i) By 2022, means to implement the framework for the period 2020 to 2030 are identified and committed. (ii) By 2030, means to implement the framework for the period 2030 to 2040 are identified or committed.</p>	<p>D.0.1. Index of coverage of national biodiversity strategies and action plans with formal processes for ensuring that women, indigenous peoples and local communities and youth are engaged and which capture means of implementation*</p> <p>D.0.2. National funding for implementation of the global biodiversity framework*</p>	<p>D.1. Availability of sufficient financial resources</p> <p>D.2. Sufficient capacity-building, technology transfer and scientific cooperation</p> <p>D.3. Access to technology</p>	<p>D.1.1. Financial resources captured in the headline indicators for Target 18</p> <p>D.1.2. Financial resources mobilized for capacity-building, technology transfer and scientific cooperation</p> <p><i>Headline indicator 19.0.1</i></p>	<p>D.1.1.1. Financial resources captured in the headline indicators for Target 18</p> <p>D.1.1.2. Finance mobilized for capacity-building</p> <p>D.1.1.3. Financial and technical assistance provided in dollars (including through South-South, North-South and triangular cooperation)</p> <p>D.1.1.4. Finance mobilized for promoting the development, transfer, dissemination and diffusion of technology</p> <p>D.1.1.5. Number of scientists per population</p> <p>D.1.1.6. Joint scientific papers published (in Ocean Biodiversity Information System (OBIS)) by sector</p> <p>D.1.1.7. Number of marine monitoring stations</p> <p>D.1.1.8. Number of water quality monitoring stations</p> <p>D.1.1.9. Nationally maintained research vessels</p> <p>D.1.1.10. Proportion of total research budget allocated to research in the field of marine technology</p> <p>D.1.1.11. Volume of official development assistance flows for scholarships by sector and type of study</p> <p>D.1.1.12. Global imports of information and communication technology (ICT) goods as</p>

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				presented by bilateral trade flows by ICT goods categories
Reducing threats on biodiversity				
<p>Target 1. By 2030, [50%] of land and sea areas globally are under spatial planning addressing land/sea use change, retaining most of the existing intact and wilderness areas, and allow to restore [X%] of degraded freshwater, marine and terrestrial natural ecosystems and connectivity among them.</p>	<p>1.0.1 Percentage of land covered by landscape scale land-use plans for terrestrial, freshwater and marine ecosystems*</p>	<p>1.1. Increase in area of terrestrial, freshwater and marine ecosystems under spatial planning 1.2. Prevention of reduction and fragmentation of natural habitats due to land/sea use change 1.3. Priority retention of intact/wilderness areas 1.4. Restoration of degraded ecosystems 1.5. Maintenance and restoration of connectivity of natural ecosystems</p>	<p>1.1.1. Sustainable forest management (SDG indicator 15.2.1) 1.1.2. Number of countries using ecosystem-based approaches to managing marine areas (SDG indicator 14.2.1) 1.1.3. Degree of integrated water resources management (SDG indicator 6.5.1) <i>Habitat extent, fragmentation and connectivity are captured in Goal A.</i></p>	<p>1.1.1.1. Number of countries using natural capital accounts in planning processes 1.1.1.2. Percentage of spatial plans utilising information on key biodiversity areas 1.1.1.3. Habitat patches located within marine protected areas or integrated coastal zone management (ICZM) 1.1.1.4. Other spatial management plans (not captured as ICZM or marine spatial planning in 14.2.1) 1.1.1.5. Number of countries using ocean accounts in planning processes 1.1.1.6. Proportion of transboundary basin area with an operational arrangement for water cooperation (SDG indicator 6.5.2) 1.1.1.7. Percent of total land area that is under cultivation 1.1.1.8. Habitat distributional range 1.1.1.9. Index of Species Rarity Sites, High Biodiversity Areas, Large Mammal Landscapes, Intact Wilderness and Climate Stabilization Areas 1.1.1.10. Increase in secondary natural forest cover</p>

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				1.1.1.11. Annual Tropical Primary Tree Cover Loss 1.1.1.12. Forest Landscape Integrity Index 1.1.1.13. Global Ecosystem Restoration Index 1.1.1.14. Cumulative human impacts on marine ecosystems. 1.1.1.15. Physical damage to seafloor habitats 1.1.1.16. Free flowing rivers 1.1.1.17. Percentage of cropped landscapes with at least 10% natural land 1.1.1.18. Bioclimatic Ecosystem Resilience Index (BERI)
Target 2. By 2030, protect and conserve through well connected and effective system of protected areas and other effective area-based conservation measures at least 30 per cent of the planet with the focus on areas particularly important for biodiversity.	2.0.1 Protected area coverage of important biodiversity areas 2.0.2 Species Protection Index	2.1. Area of terrestrial, freshwater and marine ecosystem under protection and conservation 2.2. Areas of particular importance for biodiversity are protected and conserved as priority 2.3. Representative system of protected areas and other effective area-based conservation measures 2.4. Effective management and equitable governance of	2.1.1. Protected area coverage by type (marine, freshwater, mountain and terrestrial) 2.1.2. Protected area coverage of important biodiversity areas (by type (marine, freshwater, mountain and terrestrial) 2.1.3. Protected Area Representativeness Index (PARC-Representativeness) 2.1.4. Headline indicator for Target 3 2.1.5. Protected Connected (Protconn) index 2.1.6. Area of Protected areas and other effective area-based conservation measures meeting their documented	2.1.1.1. Protected area downgrading, downsizing and degazettement (PADDD) 2.1.1.2. Status of key biodiversity areas 2.1.1.3. Protected area coverage of key biodiversity areas 2.1.1.4. Protected area coverage of coral reefs 2.1.1.5. IUCN Green List of Protected and Conserved Areas 2.1.1.6. Proportion of terrestrial, freshwater and marine ecological regions which are conserved by protected areas or other effective area-based conservation measures 2.1.1.7. Species Protection Index

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		<p>the system of protected areas and other effective area-based conservation measures</p> <p>2.5. Connectivity within the system of protected areas and other effective area-based conservation measures</p> <p>2.6. Increased protection and conservation effectiveness</p> <p>2.7. Integration into landscape and seascape context</p>	<p>ecological objectives (Protected areas effectiveness)</p> <p>2.1.7. Area of protected areas and other effective area-based conservation measures in each of the four governance types</p>	<p>2.1.1.8. Ramsar Management Effectiveness Tracking Tool (R-METT)</p> <p>2.1.1.9. Number of protected areas that have completed a site-level assessment of governance and equity (SAGE)</p> <p>2.1.1.10. Number of certified forest areas under sustainable management with verified impacts on biodiversity conservation</p> <p>2.1.1.11. Protected Area Connectedness Index (PARC-Connectedness)</p> <p>2.1.1.12. Number of hectares of UNESCO designated sites (natural and mixed World Heritage sites and Biosphere Reserves)</p> <p>2.1.1.13. Percentage of biosphere reserves that have a positive conservation outcome and effective management</p> <p>2.1.1.14. Extent of indigenous peoples and local communities' lands that have some form of recognition</p>
<p>Target 3. By 2030, ensure active management actions to enable wild species of fauna and flora recovery and conservation, and reduce human-wildlife conflict by [X%].</p>	<p>3.0.1 Protected areas management effectiveness</p> <p>3.0.2 Species recovery programmes*</p>	<p>3.1. Active recovery and conservation management actions</p> <p>3.2. Reduced human-wildlife conflicts</p> <p>3.3. Number of countries with a national species recovery plan</p>	<p>3.1.1. Status of species captured in Goal A</p> <p>3.1.2. Proportion of conservation dependent species (IUCN Green Status of Species Index)</p>	<p>3.1.1.1. Species threat abatement and restoration metric</p> <p>3.1.1.2. IUCN Green Status of Species Index by sub-indicators</p> <p>3.1.1.3. Changing status of evolutionary distinct and globally endangered species (EDGE Index)</p> <p>3.1.1.4. Percentage of threatened species that are improving in status.</p>

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				3.1.1.5. Number of CMS daughter agreements
<p>Target 4. By 2030, ensure that the harvesting, trade and use of wild species of fauna and flora is legal, at sustainable levels and safe.</p>	<p>4.0.1 Proportion of traded wildlife that is legal and safe (not poached, illicitly trafficked or unsustainable)</p> <p>4.0.2 Proportion of fish stocks within biologically sustainable level</p>	<p>4.1. Harvest is legal, sustainable and safe for human health and biodiversity</p> <p>4.2. Trade is legal, sustainable and safe for human health and biodiversity</p> <p>4.3. Use is legal, sustainable and safe for human health and biodiversity</p>	<p>4.1.1. Proportion of traded wildlife that was poached or illicitly trafficked (T4.0.1) by species group</p> <p>4.1.2. Proportion of fish stocks within biologically sustainable levels (T4.0.2) by fish type</p> <p>4.1.3. Proportion of traded wildlife that was poached or illicitly trafficked (SDG indicators 15.7.1 and 15.c.1)</p> <p>4.1.4. The conservation status of species listed in the CITES Appendices has stabilized or improved</p>	<p>4.1.1.1. Degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing (SDG indicator 14.6.1).</p> <p>4.1.1.2. Sustainable watershed and inland fisheries index</p> <p>4.1.1.3. Proportion of legal and illegal wildlife trade consisting of species threatened with extinction</p> <p>4.1.1.4. Marine Stewardship Council Fish catch</p> <p>4.1.1.5. Total catch of cetaceans under International Convention for the Regulation of Whaling</p> <p>4.1.1.6. By catch of vulnerable and non-target species</p> <p>4.1.1.7. Illegal trade by CITES species classification</p> <p>4.1.1.8. Number of countries incorporating trade in their national biodiversity policy</p> <p>4.1.1.9. The conservation status of species listed in the CITES Appendices has stabilized or improved</p> <p>4.1.1.10. Implementation of measures designed to minimize the impacts of fisheries and hunting on migratory species and their habitats</p>

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<p>Target 5. By 2030, manage, and where possible control, pathways for the introduction of invasive alien species, achieving [50%] reduction in the rate of new introductions, and control or eradicate invasive alien species to eliminate or reduce their impacts, including in at least [50%] of priority sites</p>	<p>5.0.1 Rate of invasive alien species spread 5.0.2 Rate of invasive alien species impact</p>	<p>5.1. Identification, control and management of pathways for introduction of invasive alien species 5.2. Effective detection, identification, prioritization and monitoring of invasive alien species 5.3. Establishment of measures for eradication, control and management of invasive alien species 5.4. Eliminated or reduced impacts of invasive alien species 5.5. Eradication, control or management of invasive alien species in priority sites</p>	<p>5.1.1. Numbers of invasive alien species introduction events 5.1.2. An established an alert system for prevention and control of IAS 5.1.3. Rate of invasive alien species eradication by species type 5.1.4. Red List Index (impacts of invasive alien species) 5.1.5. Proportion of key biodiversity areas threatened by invasive alien species</p>	<p>5.1.1.1. Number of invasive alien species in national lists as per the Global Register of Introduced and Invasive Species* 5.1.1.2. Proportion of countries adopting relevant national legislation and adequately resourcing the prevention or control of invasive alien species</p>
<p>Target 6. By 2030, reduce pollution from all sources, including reducing excess nutrients [by x%], biocides [by x%], plastic waste [by x%] to levels that are not harmful to biodiversity and ecosystem functions and human health</p>	<p>6.0.1 Proportion of water with good ambient water quality (freshwater and marine) 6.0.2 Plastic debris density 6.0.3 Pesticide use per area of cropland</p>	<p>6.1. Reduction of pollution from excess nutrients 6.2. Reduction of pollution from biocides 6.3. Reduction of pollution from plastic 6.4. Reduction of pollution from other sources</p>	<p>6.1.1. Nitrogen balance (in rivers from SDG indicator 6.3.2 and in oceans from SDG indicator 14.1.1) 6.1.2. Phosphate balance (in rivers from SDG indicator 6.3.2 and in oceans from SDG indicator 14.1.1) 6.1.3. Fertilizer use 6.1.4. Pesticide use by type of pesticides</p>	<p>6.1.1.1. Trends in Loss of Reactive Nitrogen to the Environment.</p>

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	6.0.4 Proportion of municipal solid waste collected and managed in controlled facilities out of total municipal solid waste generated by cities		6.1.5. Plastic debris density by location (beach litter, floating debris, debris in the sea column, debris on the sea floor) 6.1.6. Ingested plastic and entanglement 6.1.7. Hazardous waste generated per capita; and proportion of hazardous waste treated, by type of treatment (SDG indicator 12.4.2) 6.1.8. Recycling rate (from SDG indicator 12.5.1)	
<p>Target 7. By 2030, increase contributions to climate change mitigation adaption and disaster risk reduction from nature-based solutions and ecosystems-based approaches, ensuring resilience and minimizing any negative impacts on biodiversity</p>	7.0.1 Total climate regulation services provided by ecosystems*	<p>7.1. Increased biodiversity contribution to climate change mitigation, adaptation and disaster risk reduction</p> <p>7.2. Minimized negative impacts on biodiversity from any mitigation, adaptation and disaster risk reduction measures</p>	7.1.1. Total climate regulation services provided by ecosystems by ecosystem type	<p>7.1.1.1. Above-ground biomass stock in forest (tonnes/ha)</p> <p>7.1.1.2. Number of countries that adopt and implement national disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015–2030 (SDG indicator 13.1.2)</p> <p>7.1.1.3. Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with national disaster risk reduction strategies (SDG indicator 13.1.3)</p> <p>7.1.1.4. Number of least developed countries and small island developing States with nationally determined contributions, long-term strategies, national adaptation plans, strategies as reported in adaptation communications and national communications (SDG indicator 13.b.1)</p>

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Meeting people's needs through sustainable use and benefit-sharing				
<p>Target 8. By 2030, ensure benefits, including nutrition, food security, livelihoods, health and well-being, for people, especially for the most vulnerable through sustainable management of wild species of fauna and flora</p>	<p>8.0.1 Number of people using wild resources for energy, food or culture (including firewood collection, hunting and fishing, gathering, medicinal use, craft making, etc.)*</p> <p>8.0.2 Percentage of the population in traditional employment</p>	<p>8.1. Sustainable management of aquatic wild species of fauna and flora, including fisheries</p> <p>8.2. Sustainable management of terrestrial wild species of fauna and flora</p>	<p>8.1.1. Average income of small-scale food producers, by sex and indigenous status (SDG indicator 2.3.2)</p>	<p>8.1.1.1. Proportion of fish stocks within biologically sustainable levels (SDG indicator 14.4.1)</p> <p>8.1.1.2. Degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing (SDG indicator 14.6.1)</p> <p>8.1.1.3. Number of plant and animal genetic resources for food and agriculture secured in medium- or long-term conservation facilities (SDG indicator 2.5.1)</p> <p>8.1.1.4. Red List Index (species used for food and medicine)</p> <p>8.1.1.5. Spawning stock biomass (related to commercially exploited species)</p> <p>8.1.1.6. Volume of production per labour unit by classes of farming/pastoral/ forestry enterprise size (SDG indicator 2.3.1)</p>
<p>Target 9. By 2030, support the productivity, sustainability and resilience of biodiversity in agricultural and other managed ecosystems through conservation and sustainable use of such ecosystems, reducing</p>	<p>9.0.1 Proportion of agricultural area under productive and sustainable agriculture</p>	<p>9.1. Sustainable management of agricultural biodiversity, including soil biodiversity, cultivated plants and farmed and domesticated animals and of wild relatives</p>	<p>9.1.1. Changes in land productivity</p> <p>9.1.2. Proportion of land that is degraded over total land area (SDG indicator 15.3.1)</p> <p>9.1.3. Number of plant and animal genetic resources for food and agriculture secured in either medium or long-term conservation facilities</p> <p>9.1.4. Aquaculture production</p>	<p>9.1.1.1. Changes in soil organic carbon stocks</p> <p>9.1.1.2. Red List Index (wild relatives of domesticated animals)</p> <p>9.1.1.3. Red List Index (pollinating species)</p> <p>9.1.1.4. Proportion of local breeds classified as being at risk of extinction</p>

2050 Goals, milestones and Targets ¹	Headline indicators ²	Components of the Goals and Targets ³	Component indicators ⁴	Complementary indicators ⁵
productivity gaps by at least [50%].		9.2. Sustainable management of aquaculture 9.3. Sustainable management of all types of forests	9.1.5. Area of forest under sustainable management: total forest management certification by Forest Stewardship Council and Programme for the Endorsement of Forest Certification	9.1.1.5. Progress towards sustainable forest management (SDG indicator 15.2.1)
Target 10. By 2030, ensure that nature-based solutions and ecosystem approach contribute to regulation of air quality, hazards and extreme events and quality and quantity of water for at least [XXX million] people	10.0.1 Population living in areas with clean air and clean and accessible water* 10.0.2 Ecosystems providing reduced coastal erosion, flood protection and other services)*	10.1. Regulation of air quality 10.2. Regulation of hazards and extreme events 10.3. Regulation of freshwater quantity, quality, location and timing	10.1.1. Mortality rate attributed to household and ambient air pollution (SDG indicator 3.9.1) 10.1.2. Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population (SDG indicator 11.5.1) 10.1.3. Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services) (SDG indicator 3.9.2) 10.1.4. Mortality rate attributed to unintentional poisoning (SDG indicator 3.9.3)	10.1.1.1. Air emission accounts 10.1.1.2. Proportion of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management (SDG indicator 6.b.1) 10.1.1.3. Proportion of population using safely managed drinking water services (SDG indicator 6.1.1)
Target 11. By 2030, increase benefits from biodiversity and green/blue spaces for human health and wellbeing, including the proportion of people with access to such spaces by at least [100%], especially for urban dwellers.	11.0.1 Average share of the built-up area of cities that is green/blue space for public use for all	11.1. Access to green/blue spaces 11.2. Contributions of biodiversity to human health and well-being	11.1.1.1 Average distance to green/blue space for public use (modification of SDG indicator 11.7.1) 11.1.1.2 Ratio of land consumption rate to population growth rate (SDG indicator 11.3.1)	

2050 Goals, milestones and Targets ¹	Headline indicators ²	Components of the Goals and Targets ³	Component indicators ⁴	Complementary indicators ⁵
<p>Target 12. By 2030, increase by [X] benefits shared for the conservation and sustainable use of biodiversity through ensuring access to and the fair and equitable sharing of benefits from the utilization of genetic resources and associated traditional knowledge</p>	<p>12.0.1 Numbers of users that have shared benefits from the utilization of genetic resources and/or traditional knowledge associated with genetic resources with the providers of the resources and/or knowledge</p> <p>12.0.2 Number of access and benefit-sharing permits or their equivalent granted for genetic resources (including those related to traditional knowledge)</p> <p>12.0.3 Extent to which legislative, administrative or policy frameworks to ensure fair and equitable sharing of benefits have been adopted*</p>	<p>12.1. Access to genetic resources</p> <p>12.2. Benefit shared from the use of genetic resources</p> <p>12.3. Benefits resulting from use of traditional knowledge associated with genetic resources</p>	<p>12.1.1. Number of access and benefit-sharing permits, or their equivalent, granted for genetic resources (including those related to traditional knowledge) by type of permit</p> <p>12.1.2. Numbers of users that have shared benefits from the utilization of genetic resources and/or traditional knowledge associated with genetic resources with the providers of the resources and/or knowledge (12.0.1) by sex</p> <p>12.1.3. Numbers of users that have shared benefits from the utilization of genetic resources and/or traditional knowledge associated with genetic resources with the providers of the resources and/or knowledge (12.0.1) by indigenous status</p>	<p>12.1.1.1. Total number of transfers of crop material from the Multilateral System of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA) received in a country</p> <p>12.1.1.2. Total number of permits, or their equivalent, granted for access to genetic resources</p> <p>12.1.1.3. Total number of internationally recognized certificates of compliance published in the ABS Clearing-House</p> <p>12.1.1.4. Number of countries that require prior informed consent that have published legislative, administrative or policy measures on access and benefit-sharing in the ABS Clearing-House</p> <p>12.1.1.5. Number of countries that require prior informed consent that have published information on ABS procedures in the ABS Clearing-House</p> <p>12.1.1.6. Number of countries that have adopted legislative, administrative and policy frameworks to ensure fair and equitable sharing of benefits (SDG Indicator 15.6.1)</p> <p>12.1.1.7. Estimated % of monetary and non-monetary benefits directed towards conservation and sustainable use of biodiversity</p>
<p>Tools and solutions for implementation and mainstreaming</p>				

2050 Goals, milestones and Targets ¹	Headline indicators ²	Components of the Goals and Targets ³	Component indicators ⁴	Complementary indicators ⁵
<p>Target 13. By 2030, integrate biodiversity values into policies, regulations, planning, development processes, poverty reduction strategies and accounts at all levels, ensuring that biodiversity values are mainstreamed across all sectors and integrated into assessments of environmental impacts.</p>	<p>13.0.1 Extent to which national targets have been adopted for integrating biodiversity values into policies, regulations, planning, development processes, poverty reduction strategies and accounts at all levels, ensuring that biodiversity values are mainstreamed across all sectors and integrated into assessments of environmental impacts*</p> <p>13.0.2 Integration of biodiversity into national accounting and reporting systems, defined as implementation of the System of Environmental-Economic Accounting</p>	<p>13.1. Biodiversity reflected in policies and planning at all levels</p> <p>13.2. Biodiversity reflected in national and other accounts</p> <p>13.3. Biodiversity values are reflected in policies and regulations, including on biodiversity inclusive environmental impact assessments and strategic environmental assessments</p>	<p><i>Headline indicators for Target 13</i></p> <p>13.1.1. The number of countries that have incorporated the BioTrade Principles and Criteria</p>	

2050 Goals, milestones and Targets ¹	Headline indicators ²	Components of the Goals and Targets ³	Component indicators ⁴	Complementary indicators ⁵
<p>Target 14. By 2030, achieve reduction of at least [50%] in negative impacts on biodiversity by ensuring production practices and supply chains are sustainable.</p>	<p>14.0.1 Potential population and species loss from terrestrial and marine human modification*</p> <p>14.0.2 Corporate sustainability reporting includes impacts on biodiversity*</p>	<p>14.1. Reduction of at least [50%] in negative impacts on biodiversity</p> <p>14.2. Sustainable production practices, including circular economy and waste management and sustainable supply chains at national and international levels</p> <p>14.3. Sustainable supply chains at national and international levels</p>	<p>14.1.1. Potential population and species loss from terrestrial and marine human modification (14.0.1) by type of modification</p> <p>14.1.2. Corporate sustainability reporting includes impacts on biodiversity by industrial (International Standard Industrial Classification of All Economic Activities) classification</p> <p>14.1.3. Number of countries developing, adopting or implementing policy instruments aimed at supporting the shift to sustainable consumption and production (SDG indicator 12.1.1)</p>	<p>14.1.1.1. Ecological Footprint</p> <p>14.1.1.2. Human Appropriation of Net Primary Production (HANPP)</p> <p>14.1.1.3. Number of MSC Chain of Custody Certification holders by distribution country</p>
<p>Target 15. By 2030, eliminate unsustainable consumption patterns, ensuring people everywhere understand and appreciate the value of biodiversity, and thus make responsible choices commensurate with 2050 biodiversity vision, taking into account individual and national cultural and socioeconomic conditions.</p>	<p>15.0.1 Biomass material footprint per capita</p>	<p>15.1. Sustainable consumption patterns</p> <p>15.2. New vision of good quality of life based on sustainability and new social norms for sustainability</p> <p>15.3. Peoples' responsibility for their choices</p>	<p>15.1.1. Material footprint by type (biomass, fossil fuels, metal ores non-metallic minerals) (SDG indicators 8.4.1 and 12.2.1)</p> <p>15.1.2. Domestic material consumption by type (biomass, fossil fuels, metal ores non-metallic minerals) (SDG indicators 8.4.2 and 12.2.2)</p> <p>15.1.3. (a) Food loss index and (b) food waste index (SDG indicator 12.3.1)</p> <p>15.1.4. Biodiversity Engagement Indicator</p> <p><i>Headline indicators captured in Target 19</i></p>	<p>15.1.1.1. CO₂ emission per unit of value added (SDG indicator 9.4.1)</p> <p>15.1.1.2. Change in water-use efficiency over time (SDG indicator 6.4.1)</p>
<p>Target 16. By 2030, establish and implement measures to prevent,</p>	<p>16.0.1 Extent to which necessary legal, administrative,</p>	<p>16.1. Measures to prevent potential adverse impacts of biotechnology on</p>	<p><i>Captured in headline indicator for Target 16</i></p>	<p>16.1.1.1. Number of countries that have the necessary biosafety legal and administrative measures in place</p>

2050 Goals, milestones and Targets ¹	Headline indicators ²	Components of the Goals and Targets ³	Component indicators ⁴	Complementary indicators ⁵
manage or control potential adverse impacts of biotechnology on biodiversity and human health reducing these impacts by [X].	technical and other biosafety measures are in place to prevent, manage and control potential adverse impacts of biotechnology on biodiversity*	biodiversity and human health 16.2. Measures to manage adverse impacts of biotechnology on biodiversity and human health 16.3. Measures to control adverse impacts of biotechnology on biodiversity and human health 16.4. Restoration and compensation for damage to biodiversity caused by living modified organisms		16.1.1.2. Number of countries that implement their biosafety measures 16.1.1.3. Number of countries that have the necessary measures and means for detection and identification of products of biotechnology 16.1.1.4. Number of countries that carry out scientifically sound risk assessments to support biosafety decision-making 16.1.1.5. Number of countries that establish and implement risk management measures 16.1.1.6. Percentage of Parties to the Cartagena Protocol on Biosafety implementing the relevant provisions of the Protocol 16.1.1.7. Number of countries with legal and technical measures for restoration and compensation 16.1.1.8. Percentage of Parties to the Nagoya – Kuala Lumpur Supplementary Protocol implementing the relevant provisions of the Supplementary Protocol
Target 17. By 2030, redirect, repurpose, reform or eliminate incentives harmful for biodiversity, including [X] reduction in the most harmful subsidies, ensuring that incentives, including public and private	17.0.1 Biodiversity relevant taxes, charges and fees on payments for ecosystem services and on biodiversity relevant tradable	17.1. Increase in positive public and private economic and regulatory incentives 17.2. Elimination, phasing out or reform of incentives and subsidies	<i>Captured in headline indicator for Target 17</i>	17.1.1.1. Number of countries with biodiversity-relevant taxes 17.1.1.2. Number of countries with biodiversity-relevant charges and fees 17.1.1.3. Number of countries with biodiversity-relevant tradable permit schemes

2050 Goals, milestones and Targets ¹	Headline indicators ²	Components of the Goals and Targets ³	Component indicators ⁴	Complementary indicators ⁵
economic and regulatory incentives, are either positive or neutral for biodiversity.	permit schemes as a percentage of GDP 17.0.2 Potentially harmful elements of government support to agriculture, fisheries and other sectors (environmentally harmful subsidies) as a percentage of GDP	the most harmful to biodiversity		17.1.1.4. Trends in potentially environmentally harmful elements of government support to agriculture (producer support estimate) 17.1.1.5. Trends in the number and value of government fossil fuel support measures 17.1.1.6. Amount of fossil-fuel subsidies per unit of GDP (production and consumption) (SDG indicator 12.c.1)
Target 18. By 2030, increase by [X%] financial resources from all international and domestic sources, through new, additional and effective financial resources commensurate with the ambition of the goals and targets of the framework and implement the strategy for capacity-building and technology transfer and scientific cooperation to meet the needs for implementing the post-2020 global biodiversity framework.	18.0.1 Official development assistance, public expenditure and private expenditure on conservation and sustainable use of biodiversity and ecosystems*	18.1. Identification of funding needs to meet ambition of the goals and targets of the Framework 18.2. Increase in financial resources from international sources 18.3. Increase in financial resources from domestic sources 18.4. Implementation of the strategy for capacity-building 18.5. Implementation of the strategy for technology transfer and scientific cooperation	18.1.1. Number of countries with a nationally determined target for increasing the level of domestic resources, reported to the Convention 18.1.2. Official development assistance for the conservation and sustainable use of biodiversity and ecosystems* 18.1.3. Public expenditure on the conservation and sustainable use of biodiversity and ecosystems* 18.1.4. Private expenditure on the conservation and sustainable use of biodiversity and ecosystems* 18.1.5. Dollar value of all resources made available to strengthen statistical capacity in developing countries (SDG indicator 17.19.1) 18.1.6. Volume of official development assistance flows for scholarships by sector and type of study	18.1.1.1. Amount of funding provided through the Global Environment Facility and allocated to the biodiversity focal area (decision X/3) 18.1.1.2. Amount and composition of biodiversity-related finance reported to the OECD Creditor reporting system 18.1.1.3. Dollar value of financial and technical assistance (including through North-South, South-South and triangular cooperation) committed to developing countries 18.1.1.4. Dollar value of all resources made available to strengthen statistical capacity in developing countries (SDG indicator 17.19.1) 18.1.1.5. Amount of biodiversity-related philanthropic funding

2050 Goals, milestones and Targets ¹	Headline indicators ²	Components of the Goals and Targets ³	Component indicators ⁴	Complementary indicators ⁵
				<p>18.1.1.6. Proportion of total research budget allocated to research in the field of marine technology</p> <p>18.1.1.7. Total amount of approved funding for developing countries to promote the development, transfer, dissemination and diffusion of environmentally sound technologies (SDG indicator 17.7.1)</p>
<p>Target 19. By 2030, ensure that quality information, including traditional knowledge, is available to decision makers and public for the effective management of biodiversity through promoting awareness, education and research.</p>	<p>19.0.1 Biodiversity information index*</p> <p>19.0.2 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</p>	<p>19.1. Availability of reliable and up-to-date biodiversity related information</p> <p>19.2. Promotion of awareness of values of biodiversity</p> <p>19.3. Promotion of biodiversity in education</p> <p>19.4. Availability of research and knowledge, including traditional knowledge, innovations and practices of indigenous peoples and local communities with their free, prior and informed consent</p>	<p>19.1.1. Biodiversity information index by type of information</p> <p>19.1.2. Species Status Information Index</p> <p>19.1.3. Biodiversity Barometer</p> <p>19.1.4. Growth in Species Occurrence Records Accessible Through GBIF</p> <p>19.1.5. Trends of linguistic diversity and numbers of speakers of indigenous languages (B) (decision VII/30 and VIII/15)</p>	<p>19.1.1.1. Growth in number of records and species in the Living Planet Index database</p> <p>19.1.1.2. Growth in marine species occurrence records accessible through OBIS*</p> <p>19.1.1.3. Proportion of known species assessed through the IUCN Red List.</p> <p>19.1.1.4. World Association of Zoos and Aquariums (WAZA) bio-literacy survey (Biodiversity literacy in global zoo and aquarium visitors)</p> <p>19.1.1.5. Number of assessments on the IUCN Red List of threatened species</p>
<p>Target 20. By 2030, ensure equitable participation in decision-making related to biodiversity and ensure</p>	<p>20.0.1 Land tenure in the traditional territories of indigenous peoples</p>	<p>20.1. Equitable participation of indigenous peoples and local communities in</p>	<p><i>Captured in headline indicator for target 20</i></p>	<p>20.1.1.1. Percentage of population who believe decision making is inclusive and responsive, by sex, age, disability and population group (SDG indicator 16.7.2).</p>

2050 Goals, milestones and Targets¹	Headline indicators²	Components of the Goals and Targets³	Component indicators⁴	Complementary indicators⁵
rights over relevant resources of indigenous peoples and local communities, women and girls as well as youth, in accordance with national circumstances.	and local communities 20.0.2 Population with secure tenure rights to land 20.0.3 Extent to which indigenous peoples and local communities, women and girls as well as youth participate in decision-making related to biodiversity*	decision-making related to biodiversity and rights over relevant resources 20.2. Equitable participation of women and girls in decision-making related to biodiversity and rights over relevant resources 20.3. Equitable participation of youth in decision-making related to biodiversity and rights over relevant resources		20.1.1.2. Percentage of positions in national and local institutions, including (a) the legislatures; (b) the public service; and (c) the judiciary, compared to national distributions, by sex, age, persons with disabilities and population groups 20.1.1.3. Proportion of seats held by women in (a) national parliaments and (b) local governments (SDG indicator 5.5.1) 20.1.1.4. Number of countries with systems to track and make public allocations for gender equality and women’s empowerment (SDG indicator 5.c.1) 20.1.1.5. 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 20.1.1.6. Number of countries where the legal framework (including customary law) guarantees women’s equal rights to land ownership and/or control