**Review Comments on the Draft Monitoring Framework for the Post-2020 Global Biodiversity Framework**

**General Comments**

1. China welcomes the draft monitoring framework for the Post-2020 Global Biodiversity Framework (GBF) prepared by the Secretariat of CBD and the Co-chairs of WG2020.

2. China supports the optimizing of the method for evaluating the implementation progress of GBF, and believes that a limited number of headline indicators could be helpful for strengthening the global progress assessment of GBF. Meanwhile, considering differences in biodiversity among countries, parties should be allowed to use additional indicators, especially national indicators with good practices and baselines. China will continue to study the monitoring framework, and communicate with other parties.

3. The monitoring framework should be allowed for updating and revising. It is a long process that involves scientific and technical inputs. China supports the evaluation of effectiveness of the monitoring framework, so as to further enhance monitoring capabilities at global and national levels.

4. The progress of monitoring, evaluating and reporting on GBF depends on funding, capacities and technical support. China believes that current processes on resource mobilization, capacity building, and technical cooperation and transfer should prioritise the support for monitoring, evaluation and reporting on GBF, especially for developing country parties.

5. We’ve noticed duplication of monitoring elements in Goals and Targets, including access and benefit sharing and capacity building. We will continue to study on this issue and provide advice later.

6. The draft monitoring framework has grouped the natural ecosystem multiple times into different types. For better monitoring and evaluation, China suggests integrating natural ecosystems into four major types: forests, grasslands, inland wetlands, and coastal and marine ecosystems.

7. After consulting with a number of departments and experts, we would like to provide a list of preliminary peer-review comments and suggestions. China is willing to maintain communication with the CBD Secretariat, WG2020 Co-Chairs and SBSTTA Chair, parties and stakeholders to support the development of the monitoring framework.

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| **Comments** | | | | |
| **Table** | **Page** | **Column** | **Row** | **Comments** |
| 1 | 2 | A | 2 | “Increased extent of marine ecosystems” is ambiguous. For example, the extent of marine ecosystems might be expanded due to the sea level rise caused by global warming. Please clarify. |
| 1 | 2 | B | 16 | Revise “farmland biodiversity” to “agricultural biodiversity”. |
| 1 | 2 | B | 15 | It is hard to monitor the “quality of forest ecosystems” without a clear definition of “quality”. China is willing to share its forests quality classification methodologies with the international community. |
| 1 | 3 | B/C | 15-28 | To avoid the overlapping of indicators, revise the monitoring elements of A2 (ecosystem integrity and connectivity) as following：  1) Trends in ecosystem integrity.The indicators are Biodiversity Habitat Index, Spatial Integrity Index, and Ecosystem Integrity Index.  2) Trends in ecosystem connectivity. Indicator is Protected Area Connectedness Index. 3) Trends in ecosystem health. Indicators are Global Vegetation Health Products, Average marine acidity (pH), and Ecosystem Health Index.  4) Trends in ecosystem quality. Indicators are proportion of land that is degraded over total land area (SDG 15.3.1), Wetland Extent Trends Index, and Global Ecosystem Restoration Index. |
| 1 | 3 | C | 24 | Revise the indicator as: “Average and standard deviation of marine acidity (pH) measured at agreed suite of representative sampling stations”. Average value alone cannot reflect the extreme conditions of pH variations. |
| 1 | 3 | C | 30 | Revise the indicator as: “Number of endangered species protected by conservation action” |
| 1 | 3 | C | 33 | The selected indicator is not representative enough. Please consider other options |
| 1 | 5 | B | 51 | Add a new monitoring element: “Trend in glacier area” with a corresponding indicator “glacier area”; the element should be monitored every 5 years |
| 1 | 5 | B | 51 | Add new monitoring elements: “Soil Conservation (with “river sediment content” as the Indicator)”, “Flood Regulation and Storage” (with “regulated amount of stormwater runoff” as the Indicator), and “Sand and Dust Storms Prevention” (with “frequency and intensity of sand storms” as the Indicator.) |
| 1 | 5 | C | 55 | Add an indicator: “CO2 fixation and O2 release of ecosystems” |
| 1 | 5 | B/C | 68 | Add monitoring elements “Trend in Poverty Reduction” and “Jobs created through sustainable use of biodiversity”.  Add new indicators “Size of the poor population and poverty incidence in rural areas”, “Number of people out of poverty due to the sustainable use of biodiversity”, and “Number of jobs created through the sustainable use of biodiversity”. |
| 1 | 6 | B/C | 64-67 | Nature’s material contribution of water, which is mentioned in Component B2, should be included in the indicators. |
| 1 | 6 | C | 68-69 | Add an indicator “Proportion of population receiving ecological/environmental education” |
| 1 | 6 | C | 70-71 | Add an indicator: “Number of environmental education institutions” |
| 1 | 6 | A | 72 | Revise the Component as “Access to genetic resources and associated traditional knowledge”. |
| 1 | 6 | B | 72 | Revise the monitoring element as “Trends in access to genetic resources and associated traditional knowledge”. |
| 1 | 6 | B | 74 | Revise the monitoring element as “Trends in the benefits-sharing from the access to genetic resources and associated traditional knowledge” |
| 1 | 6 | C | 74 | Add 8 new indicators：   1. 1) The number of cases of benefit-sharing from the access to genetic resources and associated traditional knowledge. 2. 2) Amount of monetary benefits received from granting access to genetic resources and associated traditional knowledge. 3. 3) Number of Parties with indigenous peoples and local communities that received monetary or non-monetary benefits from granting access to traditional knowledge associated with genetic resources for its utilization. 4. 4) Type and number of the non-monetary benefits from granting access to genetic resources and associated traditional knowledge.   5) Number of collaborations in scientific research.  6) Number of technology/knowledge transfer occurrences.  7) Number of people trained.  8) Number of jobs created. |
| 1 | 6 | B | 75 | Revise the monitoring element as “Trends in utilization of genetic resources and associated traditional knowledge”. |
| 1 | 6 | C | 75 | Add indicators：   1. 1) The number of the commercial use of genetic resources and associated traditional knowledge.   2) The number of the non-commercial use of genetic resources and associated traditional knowledge. |
| 1 | 6 | A | after76 | Add a monitoring element and corresponding indicators under C2.  Monitoring element: *Trends in the contribution of the shared benefits to conservation and sustainable use of biodiversity.*  Indicator: *Amount of monetary and non- monetary benefits directed towards conservation and sustainable use of biodiversity.* |
| 1 | 6 | B | 76 | Overlapping with the first monitoring element in the same Component, the two should be integrated. |
| 1 | 7 | C | 79 | Add an indicator: “Identified and reported dollar value of financial resources from private sector” |
| 1 | 7 | C | 81 | Add an indicator: “Number of Parties that have integrated long-term capacity building into national biodiversity strategies and action plans” |
| 1 | 7 | C | 81 | Add an indicator: “U.S. dollar value of funding to support developing country Parties to accomplish NBSAPs and national reports” |
| 1 | 7 | C | 82 | Add an indicator: “Number of workshops and training events held for capacity building” |
| 1 | 7 | C | 82 | Add an indicator: “Number of regional communities of practice, networks or center of excellence established to support capacity building (by themes)” |
| 1 | 7 | C | 82 | Add an indicator: “Number of capacity-building projects involving biodiversity-related bilateral or multilateral agreements” |
| 1 | 7 | C | 83 | Add an indicator: “Number of technologies under Article 16 of the Convention on Biological Diversity that are transferred between the Contracting Parties” |
| 1 | 7 | C | 84 | Add an indicator: “Number of international scientific research cooperation projects in bilateral or multilateral agreements related to biodiversity” |
| 1 | 7 | C | 84 | Add an indicator: “Number of DNA barcodes for rapid identification of species in relevant countries and regions for global sharing” |
| 1 | 7 | C | 85 | Add an indicator: “Number of skill training events or scientific forums that provide technical knowledge in professional areas” |
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| 2 | 8 | B | 1-5 | Revise the monitoring elements as follows:  “Trends in area under terrestrial spatial planning”,  “Trends in area under freshwater spatial planning”  “Trends in area under marine spatial planning” |
| 2 | 8 | C | 1-5 | Add new indicators:  1) “Proportion of terrestrialecosystems under spatial planning that adequately integrates biodiversity conservation”  2) “Proportion of freshwater ecosystems under spatial planning that adequately integrates biodiversity conservation”  3) “Proportion of coastal and marine ecosystems under spatial planning that adequately integrates biodiversity conservation”  4) “Number of Parties with terrestrial spatial planning”  5) “Number of Parties using ecosystem-based approaches in marine management” |
| 2 | 8 | A | 6 | Comments: Target 1 does not include content linked to Component T1.2 "preventing the loss and fragmentation of natural habitats caused by land use change". |
| 2 | 9 | C | 15 | It is difficult to monitor seagrass ecosystems due to technological challenges and the lack of available data. |
| 2 | 9 | B/C | 16-18 | The indicator Ecosystem Red List Index can only apply in limited areas; the cumulative impact of humans on the ocean and the ocean health index is difficult to quantify. |
| 2 | 9 | A | 23 | Delete “priority” and revise it as “Retention of intact/wilderness areas”, for Target 1 in zero draft does not emphasize the priority of retaining intact and wilderness areas. |
| 2 | 9 | B | 24-29 | Monitoring elements are subject to different classification criteria and there is some overlapping. Align the monitoring elements with the target:  1) “Trend in the area of degraded terrestrial ecosystems restored”  2) “Trend in the area of degraded freshwater ecosystems restored”  3) “Trends in the area of degraded marine ecosystems restored” |
| 2 | 10 | C | 35 | Add a new indicator: “Coverage of protected areas in relation to land areas”. |
| 2 | 10 | C | 37 | The indicators of protected areas of land and sea have covered all kinds of ecosystems. It is not necessary to set an additional indicator for mountain areas. |
| 2 | 11 | C | 42 | Suggest integrating with the No.40 Indicator. |
| 2 | 11 | C | 41,45 | The detailed method of the Species Protection Index indicator has not been disclosed, and its data basis and representativeness are insufficient. |
| 2 | 12 | C | 48 | Add a new indicator: “Laws and Regulations that involve all stakeholders in the process of protection and conservation of protected areas, including IPLCs, women, youth, and private actors”. |
| 2 | 12 | B | 54 | Revise the monitoring element: “Trends in species conservation and recovery programmes”. |
| 2 | 12 | C | 54 | Add an indicator: “Trends in management plans on species conservation and recovery”. The information can be provided by Parties annually |
| 2 | 12 | C | 53 | Add an indicator: “Number of botanic gardens and World Association of Zoos and Aquariums members”.  Add a national indicator: “Number of botanic gardens and wildlife rescue and breeding centers” |
| 2 | 12 | C | 55 | According to the discussion in WG2020-2, revise the monitoring element: “Trends in human-wildlife **interactions**”. |
| 2 | 12 | B/C | 56 | Revise the monitoring elements as: reducing illegal and unsustainable harvesting. And revise the Indicators as: number of wild species threatened by illegal and unsustainable harvesting. It is impossible to evaluate the proportion of legal activities, as we are unable to assess the scale of illegal harvesting. |
| 2 | 12 | B/C | 61 | Revise the monitoring elements as: reducing illegal and unsustainable trade. And revise the Indicators as: number of wild species threatened by illegal and unsustainable trade. It is impossible to evaluate the proportion of legal activities, as we are unable to assess the scale of in illegal market. |
| 2 | 12 | B | 64 | Revise the monitoring elements as: reducing illegal and unsustainable use. It is impossible to assess the scale of the proportion of legal use and illegal use. |
| 2 | 14 | C | 71 | Add new indicators:  1) “Number of newly identified invasive alien species per decade”  2) “Number of batches of pests intercepted by customs”. |
| 2 | 14,15 | B/C | 74-76 | The difference between “Control measures” and “management measures” is not clear. So the monitoring elements could be merged as “Trends in establishing control / management measures”.  Add two new indicators:  1) “Number of IAS with operational management plans in place”  2) “Number of Parties to IAS-relevant international agreements”. |
| 2 | 15 | D | 77 | Suggest that the frequency of updates be every five years, and monitoring areas be focused on areas with severe impacts of invasive species. |
| 2 | 15 | C | 83-84 | The other two indicators have been covered and considered in the indicator of Nitrogen Balance in line 82. |
| 2 | 16 | C | 90 | Add an indicator: “Amount of residual plastic film in farmland”. |
| 2 | 16 | B | 91 | Add a monitoring element: “Trends in discharge of key pollutants”. |
| 2 | 16 | C | 92-95 | Those indicators are not closely linked to biodiversity, and no available records in many countries. |
| 2 | 16 | B | 97 | Revise the monitoring element: “Trends in carbon stocks and sequestration rates in different ecosystems”. |
| 2 | 16 | C | 97 | Add indicators:  1) “Changes in carbon stocks of forest ecosystems”  2) “Changes in carbon stocks of grassland ecosystems”  3) “Changes in carbon stocks of inland wetlands”  4) “Changes in carbon stocks of coastal ecosystems”. |
| 2 | 17 | C | 101 | All Parties should be included in the indicator, not only the least developed countries and small island developing States.  Revise the indicator: “Number of Parties with nationally determined contributions, long-term strategies, national adaptation plans, strategies as reported in adaptation communications and national communications”. |
| 2 | 16 | C | 98 | Add an indicator “Number of countries with nationally determined contributions, long-term strategies, national adaptation plans, strategies as reported in adaptation communications and national communications”. |
| 2 | 18 | C | 108 | Revise as “Certified Catch”. MSC is not the only fishery certification scheme globally. |
| 2 | 18 | C | 109 | Merge row 107 and 109. |
| 2 | 19 | C | 110 | Albatrosses and large petrels cannot fully reflect the situation of fishery bycatch species, and many species such as sea turtles, dolphins, sharks might be missed Indicators can be developed according to the relevant reports of RFMOs. |
| 2 | 19 | B/C | 113 | Revise as “Vertebrate stocks”. |
| 2 | 19 | B/C | 114-116 | Revise the monitoring element: “Trends in the use of terrestrial wild species of fauna **and flora**”.  Add two indicators   1. 1) "Trends in wild plants and animals for medicine utilization with sustainable managements"   2) "Trends in the proportion of wild plants and animals for medicine utilization ". |
| 2 | 20 | C | 117 | Revise as “Proportion of farmland that is degraded over total farmland area”. |
| 2 | 20 | B | 120 | It is a national indicator, but of great challenge to be quantified at global scale. |
| 2 | 20 | C | 124 | Add an indicator: “Production of aquaculture under sustainable approaches” |
| 2 | 21 | C | 127 | Add an indicator: “Amount of ecosystem carbon fixation and oxygen release” |
| 2 | 22 | B/C | 134-135, 139 | Combine the two monitoring elements and revise as: “Trends in contributions to human health and well-being from terrestrial ecosystems”. The indicators could be “contributions to human health and well-being from forests”, “contributions to human health and well-being from grasslands”, and “contributions to human health and well-being from lakes and rivers”. |
| 2 | 22 | B/C | 136-138 | Merge these three monitoring elements and revise as: “Trends in contributions to human health and well-being from marine and coastal ecosystems”.  Indicators could be “contributions to human health and well-being from mangroves” and “contributions to human health and well-being from coral reefs” |
| 2 | 22 | B/C | 133-139 | Add a monitoring element "contribution of urban ecosystems to human health and well-being", and its indicator could be “Number of the Parties integrating conservation and sustainable use of biodiversity in urban construction, planning and ecosystem restoration”. |
| 2 | 22 | A/B | 140 | Suggest dividing the monitoring element into two parts:   1. 1) “Access to genetic resources and associated traditional knowledge”   2) “Trends in access to genetic resources and associated traditional knowledge” |
| 2 | 23 | C | 141 | Revised as “Total number of permits or their equivalent granted for access to genetic resources **and traditional knowledge associated with genetic resources**”. |
| 2 | 24 | A | 146, 151 | Merge the two Components and revise as: "Benefit shared from the use of genetic resources and associated traditional knowledge". |
| 2 | 24 | B/C | 150 | Revise the monitoring element: "Trends in **the use of genetic resources** and traditional knowledge". Correspondent indicators could be:  1) Number of the commercial use of genetic resources and associated traditional knowledge;  2) Number of the non-commercial use of genetic resources and associated traditional knowledge. |
| 2 | 24 | B/C | 146, 151 | Merge the monitoring elements in row146 and 151 as “Trends in the benefits from the access to genetic resources and associated traditional knowledge shared”.  Add indicators：   1. 1) The number of cases of benefit-sharing from the access to genetic resources and associated traditional knowledge. 2. 2) Amount of monetary benefits received from granting access to genetic resources and associated traditional knowledge. 3. 3) Number of Parties with indigenous peoples and local communities that received monetary or non-monetary benefits from granting access to traditional knowledge associated with genetic resources for its utilization. 4. 4) Type and number of the non-monetary benefits from granting the access to genetic resources and associated traditional knowledge.   5) Number of collaborations in scientific research.  6) Number of the transfer of technology.  7) Number of people trained.  8) Number of jobs created. |
| 2 | 24 | C | 149 | Revise as “**Amount of** monetary and non- monetary benefits directed towards conservation and sustainable use of biodiversity”. |
| 2 | 26 | B/C | 154-156 | Merge the three monitoring elements and revise as: “Trends in integration of biodiversity and ecosystem service values into development processes, poverty reduction strategies, and sectoral plans”.  The indicator could be：   1. “Number of countries with mechanisms in place to enhance policy coherence of sustainable development (SDG indicator 17.14)” 2. "The contribution of biodiversity in poverty reduction (number of people alleviated from poverty)",   "Number of Parties incorporating biodiversity and ecosystem service values into sectoral plans" |
| 2 | 27 | C | 159 | Add an indicator: “Number of Parties incorporating biodiversity into policies and regulations” |
| 2 | 27 | C | 160 | Add an indicator: “Number of Parties incorporating biodiversity into policies and regulations on environmental impact assessment” |
| 2 | 27 | C | 161 | Add an indicator: “Number of Parties that incorporate biodiversity into policies and regulations related to strategic environmental impact assessment” |
| 2 | 28 | C | 168 | Revise as “Reduction rate of CO2 emission per unit GDP”. |
| 2 | 28 | C | 170-172 | Merge 164-167. |
| 2 | 29 | C | 174 | Revise as “number of the sustainability certification for production”. |
| 2 | 29 | C | 175 | Add indicators:   1. “Number or proportion of ecological or circular economy industrial parks (or pilot zones)”.   “Number of Parties that develop circular economy” |
| 2 | 29 | C | 177 | Revise as “Area of forest under sustainable management: total sustainable management certification”. Other scientific sustainability certification should also be included, not just FSC and PEFC. |
| 2 | 29 | C | 178 | Add an indicator: “Number of Party countries in which financial sectors develop portfolios or tools for biodiversity financing”. |
| 2 | 30 | C | 179 | A wider range of certifications should be included. |
| 2 | 32 | C | 197 | Revise as “Percentage of Parties that take appropriate measures to prevent unintentional transboundary movements of LMOs”. |
| 2 | 32 | C | 200 | Revise as “Percentage of Parties that establish relevant mechanisms monitoring effects of LMOs released into the environment”. |
| 2 | 33 | C | 202 | Revise as “Percentage of Parties that provide information on biosafety to the Biosafety Clearing-House”. |
| 2 | 33 | C | 205-206 | Merge the two indicators into “number of countries with biodiversity related taxes, charges and fees” |
| 2 | 34 | C | 209-210 | There’s no direct link between the amount of fossil-fuel subsidies per unit of GDP and Target 17, and fossil-fuel related subsidies or incentives has already been incorporated in indicator 209. Suggest merging the two indicators as:  “Trends in the number and value of government fossil fuel support measures, including fossil-fuel subsidies”. |
| 2 | 35 | D | 215 | Revise the baseline to 2018 so as to align it with the starting point of GEF-7, and update every four years in lockstep with the GEF replenishment cycle. |
| 2 | 35 | C | 217 | Add an indicator: “Identified and reported dollar value of financial resources from private sector”. |
| 2 | 35 | C | 218 | Add an indicator: “Identified and reported dollar value of financial resources from charitable organizations”. |
| 2 | 36 | C | 222 | Add an indicator: “Number of Parties that have integrated long-term capacity building into national biodiversity strategies and action plans”. |
| 2 | 36 | C | 222 | Add an indicator: “USD value of funding to support the developing country Parties to accomplish NBSAPs and national reports”. |
| 2 | 36 | C | 223 | Add an indicator: “Number of workshops and training events held for capacity building ”. |
| 2 | 36 | C | 223 | Add an indicator: “Number of regional communities of practice, networks or center of excellence established to support capacity building (by themes)”. |
| 2 | 36 | C | 223 | Add an indicator: “Number of capacity-building projects involving biodiversity-related bilateral or multilateral agreements”. |
| 2 | 36 | C | 224 | Add an indicator: “Number of technologies related to Article 16 of the Convention on Biological Diversity transferred between the Contracting Parties”. |
| 2 | 36 | C | 225 | Add an indicator: “Number of scientific research cooperation projects under bilateral or multilateral agreements related to biodiversity”. |
| 2 | 36 | C | 225 | Add an indicator: “Number of DNA barcodes for rapid identification of species in relevant countries and regions for global sharing”. |
| 2 | 37 | C | 234 | Revise “Extent to which (i) **global citizenship education** and (ii) education for sustainable development are mainstreamed in (a) national education policies...”as “Extent to which **biodiversity education** are mainstreamed in (a) national sustainable development education policies; (b) curricula; (c) teacher education; and (d) student assessment (SDG indicators 4.71and 12.8.1)”. |
| 2 | 37 | C | 235 | Merge indicator No.234 and 235. |
| 2 | 38 | C | 237 | Add an indicator: “Number of biodiversity publicity and educational campaigns”. |