**Review Comment Template for the document on indicators for the draft goals and targets of the post-2020 global biodiversity framework**

Table 1. Available indicators for monitoring elements of the proposed goals

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
| GA1. | Trends in | Forest area as a percentage of total land area | FAO | X |  | 2020 | 1990-2015 | Y | Y | N |  | Y  SDG  indicator 15.1.1 | Y | United Nations Forum on Forests |
| Increased | area of |
| extent of | forest |
| natural | ecosystems |
| ecosystems |  |
| (terrestrial, freshwater and marine ecosystems) |  |
| Tree cover loss | WRI  (Global Forest Watch) | X | N/A | 2020 | 2001 –  2020,  annually | Y |  |  | N | N | N |  |
|  |  | Primary forest  deforestation | WRI  (Global  Forest  Watch) | Y |  |  | 2002,  annually | Y | Y |  | N | N | N |  |
|  |  |
|  |  |
|  |  |
|  |  | Human  footprint index | WCS/UQ/  UNBC/NGS | Y | 2020 | 2013 | 1993 | Y | Y |  |  | N | N | Living Planet Index |
|  |  |
|  |  |
|  | Trends in | Human  footprint index | WCS/UQ/  UNBC/NG  S | Y | 2020 | 2013 | 1993 | Y | Y |  |  | N | N |  |
|  | area of dry |
|  | and sub- |
|  | humid lands |
|  | Trends in | Species  Habitat Index | MOL, Yale  University,  NGS | X | N/A | 2020 | 2001-  2018,  annually | Y | Y | Y |  | N | N | IPBES |
|  | area of |
|  | grasslands |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Human | WCS/UQ/ | Y | 2020 | 2013 | 1993 | Y | Y | N | N |
| footprint index | UNBC/NG |  |  |  |  |  |  |  |  |
|  | S |  |  |  |  |  |  |  |  |
| Trends in | Species | MOL, Yale | X | N/A | 2020 | 2001-2018 | Y | Y | Y |  | N | N | IPBES |
| area of other | Habitat Index | University, |  |  |  | annually |  |  |  |  |  |  |
| terrestrial |  | NGS |  |  |  |  |  |  |  |  |  |  |
| ecosystems |  |  |  |  |  |  |  |  |  |  |  |  |
| Biodiversity | CSIRO | X | N/A | 2015 | 2005, | Y | Y | Y |  | N | Y |  |
|  | Habitat Index |  |  |  |  | 2010, |  |  |  |  |  |
|  |  |  |  |  |  | 2015 |  |  |  |  |  |
|  | Ecosystem | IUCN | Y | 2020 | 2020 | 5 years (dependin g on the region) | Y | Y | Y | N | N | N  (applicat ion pending) |  |
|  | Area Index |  | X (for some |  |  |  |  |  |  |  |
|  | Ecosystem |  | regions) |  |  |  |  |  |  |  |
|  | Health Index |  |  |  |  |  |  |  |  |  |
|  | Red List Index |  |  |  |  |  |  |  |  |  |
|  | of Ecosystems |  |  |  |  |  |  |  |  |  |
|  | Human | WCS/UQ/ | Y | 2020 | 2013 | 1993 | Y | Y |  |  | N | N |  |
|  | footprint index | UNBC/NG |  |  |  |  |  |  |  |  |
|  |  | S |  |  |  |  |  |  |  |  |
| Trends in | Continuous | Salisbury | X |  | 2020 | 2000- | Y | Y | N |  | N | Y |  |
| area of | Global | University |  |  | 2014, |  |  |  |  |  |
| mangroves | Mangrove |  |  |  | every 5 |  |  |  |  |  |
|  | Forest Cover |  |  |  | years |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  | Trends in | Global | X |  | 2018 | 1996-2016 |  | Y | N | N | Y |  | Ramsar |
| mangrove extent | Mangrove Watch |  |  |  |  |  |  | SDG  indicator |  |
|  |  |  |  |  |  |  |  | 6.6.1 |  |
| Trends in | Live coral | Global | X |  | 2020 | 1970s, | Y | Y | Y | Y | N | Y | IPBES |
| area of coral | cover | Coral Reef |  |  | annual |  |  |  |  |  |  |  |
| reefs |  | Monitoring |  |  |  |  |  |  |  |  |  |  |
|  |  | Network; |  |  |  |  |  |  |  |  |  |  |
|  |  | Global |  |  |  |  |  |  |  |  |  |  |
|  |  | Ocean |  |  |  |  |  |  |  |  |  |  |
|  |  | Observing |  |  |  |  |  |  |  |  |  |  |
|  |  | System |  |  |  |  |  |  |  |  |  |  |
|  | Coral Reef | Global | Y | 2021 |  | 1980s/199 | Y | Y |  |  | N | N | UNFCCC |
|  | extent and | Coral Reef |  |  | 0s |  |  |  |  |
|  | condition | Monitoring |  |  |  |  |  |  |  |
|  |  | Network |  |  |  |  |  |  |  |
|  | Global coral | UNEP- | X |  | 2018 |  |  |  | Y |  |  |  |  |
|  | reef extent | WCMC, |  |  |  |
|  |  | WorldFish |  |  |  |
|  |  | Centre, |  |  |  |
|  |  | WRI, TNC |  |  |  |
|  |  | And |  |  |  |
|  |  | partners |  |  |  |
| Trends in | Global | UNEP- | X |  | 2020 |  |  |  | Y |  |  |  |  |
| area of | seagrass | WCMC, |  |  |  |
| seagrass | extent | Fred |  |  |  |
| ecosystems |  | Short, |  |  |  |
|  |  | Smithsonia |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  |  | n, and C- |  |  |  |  |  |  |  |  |  |  |  |
| GRASS |
| partners |
| (GOOS |
| seagrass |
| EOV |
| network) |
| Trends in | Global | UNEP- | X |  | 2019 |  |  |  | Y |  |  |  |  |
| area of other | saltmarsh | WCMC |  |  |  |
| marine and | extent | and |  |  |  |
| coastal |  | partners |  |  |  |
| ecosystems |  |  |  |  |  |
| Trends in | Wetland Extent | Ramsar | X |  | 2020 | 1970-2015 | Y | Y |  |  | N | Y | Ramsar, |
| area of | Trends Index | Conventio |  |  |  |  |  |  |  | CITES,  CMS, |
| wetlands |  | n |  |  |  |  |  |  |  | IPBES |
|  | Change on the | Ramsar | x |  |  | 2018 | Y | Y | Y |  | Y  SDG  Indicator 6.6.1 |  | Ramsar |
| extent of water | Conventio |  | (triennial |  |  |  |  |
| related | n on |  | Ramsar) |  |  |  |
| ecosystems | Wetlands- |  |  |  |  |  |
|  | UNEP co- |  |  |  |  |  |
|  | custodian |  |  |  |  |  |  |
|  | agencies |  |  |  |  |  |  |
| GA2.  Ecosystem integrity and connectivity (terrestrial, freshwater and | Trends in fragmentatio n and quality of forest ecosystems | Forest area as a percentage of total land area | FAO | X | N/A | 2020 | 2000-2015 | Y | Y | N |  | Y  SDG  indicator 15.1.1 | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
| marine |  | Red List Index | IUCN | X |  | 2020 | 1993 – | Y | Y | N | N | N | Y |  |
| ecosystems) | (forest- |  |  |  | 2020, |  |  |  |  |  |  |
|  | dependent |  |  |  | annually |  |  |  |  |  |  |
|  | species) |  |  |  |  |  |  |  |  |  |  |
|  | Tree cover | WRI | X | N/A | 2020 | 2001 – | Y |  |  | N | N | N |  |
|  | loss | (Global |  |  |  | 2020, |  |  |  |  |
|  |  | Forest |  |  |  | annually |  |  |  |  |
|  |  | Watch) |  |  |  |  |  |  |  |  |
|  | Species | MOL, Yale | X | N/A | 2020 | 2001-2018 | Y | Y | N |  | N | N | IPBES |
|  | Habitat Index | University, |  |  |  | annually |  |  |  |  |  |  |
|  |  | NGS |  |  |  |  |  |  |  |  |  |  |
|  | Trends in | Ecosystem | IUCN | Y | 2020 | Depend | ~5 years | Y | Y | Y | N | N | N |  |
|  | integrity for | Area Index |  |  |  | s on |  |  |  |  |  |  | (applicat |
|  | all ecosystems | Ecosystem Health Index |  | X (for some regions) |  | the region |  |  |  |  |  |  | ion pending) N |
|  |  | Red List Index |  |  |  |  |  |  |  |  |  |  |  |
|  |  | of Ecosystems |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Proportion of | UNCCD | X | N/A | 2015 | 2000- | Y | Y | Y | N | Y  SDG  indicator 15.3.1 | Y | UNCCD |
|  |  | land that is |  |  |  |  | 2015, |  |  |  |  |  |  |
|  |  | degraded over |  |  |  |  | every four |  |  |  |  |  |  |
|  |  | total land area |  |  |  |  | years |  |  |  |  |  |  |
|  |  | Tree cover | WRI | X | N/A | 2020 | 2001 – | Y |  |  | N | N | N |  |
|  |  | loss | (Global |  |  |  | 2020, |  |  |  |  |
|  |  |  | Forest |  |  |  | annually |  |  |  |  |
|  |  |  | Watch) |  |  |  |  |  |  |  |  |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  | Forest  Landscape  Integrity Index | WCS and  partners |  | Done | 2018 | N | Y | Y |  |  | N | N |  |
| Ecosystem  Intactness  Index | WCS and  partners | Y | Done | 2013 | Annually  from 2020 | Y | Y |  |  | N | N |  |
| Species  Habitat Index | MOL, Yale  University,  NGS | X | N/A | 2020 | 2001-2018  annually | Y | Y | N |  | N | N | IPBES |
| Temporal biodiversity intactness index for all land use types | UNEP, WCMC and NGS. | X | 2021 |  |  |  | Y |  | N | N | N |  |
| Trends in | Ecosystem | WCS and | Y | Done | 2013 | Annually | Y | Y |  |  | N | N |  |
| fragmentation | Intactness | partners |  |  |  | from 2020 |  |  |  |  |
| and quality | Index |  |  |  |  |  |  |  |  |  |
| of dry and |  |  |  |  |  |  |  |  |  |  |
| sub-humid lands |  |  |  |  |  |  |  |  |  |  |
| Species  Habitat Index | MOL, Yale  University, | X | N/A | 2020 | 2001-2018  annually | Y | Y | N |  | N | N | IPBES |
|  |  | NGS |  |  |  |  |  |  |  |  |  |  |
| Trends in | Species | MOL, Yale | X | N/A | 2020 | 2001-2018 | Y | Y | N |  | N | N | IPBES |
| fragmentatio | Habitat Index | University, |  |  |  | annually |  |  |  |  |  |  |
| n and quality |  | NGS |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | of |  |  |  |  |  |  |  |  |  |  |
| grasslands | Ecosystem | WCS and | Y | Done | 2013 | (annually | Y | Y | N | N |
|  | Intactness | partners |  |  |  | from 2o2o) |  |  |  |  |
|  | Index |  |  |  |  |  |  |  |  |  |
| Trends in | Species | MOL Yale | X | N/A | 2020 | 2001-2018 | Y | Y | N |  | N | N | IPBES |
| fragmentation | Habitat Index | University, |  |  |  | annually |  |  |  |  |  |  |
| and quality |  | NGS |  |  |  |  |  |  |  |  |  |  |
| of other terrestrial ecosystems |  |  |  |  |  |  |  |  |  |  |  |  |
| Biodiversity Habitat Index | CSIRO | X | N/A | 2015 | 2005,  2015  (every 5 | Y | Y | Y |  | N | Y |  |
|  |  |  |  |  |  | years) |  |  |  |  |  |
|  | Bioclimatic | CSIRO | X | N/A | 2015 | 2005, | Y | Y | N | N | N | Y |  |
|  | Ecosystem |  |  |  |  | 2015 |  |  |  |  |  |  |
|  | Resilience |  |  |  |  | (every 5 |  |  |  |  |  |  |
|  | Index (BERI) |  |  |  |  | years) |  |  |  |  |  |  |
|  | Ecosystem | IUCN | Y | 2020 | Depend | ~5 years | Y | Y | Y | N | N | N |  |
|  | Area Index |  |  |  | s on |  |  |  |  |  |  | (applicat |
|  | Ecosystem Health Index |  | X (for some regions) |  | the region |  |  |  |  |  |  | ion pending) |
|  | Red List Index |  |  |  |  |  |  |  |  |  |  |  |
|  | of Ecosystems |  |  |  |  |  |  |  |  |  |  |  |
|  | Biotic integrity | UNEP- | Y | 2021 | N/A | 2010 | Y | Y |  |  | N | N |  |
|  | index | WCMC |  |  |  |  |  |  |  |  |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | WCS and | Y | Done | 2013 | Annually | Y | Y | N | N |
| Ecosystem | partners |  |  |  | from 2020 |  |  |  |  |
| Intactness |  |  |  |  |  |  |  |  |  |
| Index |  |  |  |  |  |  |  |  |  |
| Trends in | Continuous | Salisbury | X |  | 2020 | 2000- | Y | Y | N |  | N | Y |  |
| fragmentatio | Global | University |  |  | 2014, |  |  |  |  |  |
| n and quality | Mangrove |  |  |  | every 5 |  |  |  |  |  |
| of | Forest Cover |  |  |  | years |  |  |  |  |  |
| mangroves |  |  |  |  |  |  |  |  |  |  |
| Trends in | Live coral | Global | Y |  | 2020 | 1970s- | Y | Y | Y | Y | N | Y | IPBES |
| fragmentatio | cover. | Coral Reef |  |  | 2000s, |  |  |  |  |  |  |  |
| n and quality |  | Monitoring |  |  | annually |  |  |  |  |  |  |  |
| of coral |  | Network; |  |  |  |  |  |  |  |  |  |  |
| reefs |  | Global |  |  |  |  |  |  |  |  |  |  |
|  |  | Ocean |  |  |  |  |  |  |  |  |  |  |
|  |  | Observing |  |  |  |  |  |  |  |  |  |  |
|  |  | System |  |  |  |  |  |  |  |  |  |  |
|  | Fleshy algae | Global | X |  | 2020 | 1980s/199 | Y | Y | Y |  | N | N |  |
|  | cover | Coral Reef |  |  | 0s |  |  |  |  |  |
|  |  | Monitoring |  |  |  |  |  |  |  |  |
|  |  | Network |  |  |  |  |  |  |  |  |
|  | Cover of key | Global | Y | 2022 |  | 1980s/199 | Y | Y | Y |  | N | N |  |
|  | benthic groups | Coral Reef |  |  | 0s |  |  |  |  |  |
|  |  | Monitoring |  |  |  |  |  |  |  |  |
|  |  | Network |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  | Red List Index | IUCN | X |  | 2008 | 1998, | Y | Y | N | N | N | Y | Ramsar |
| (coral species) |  |  |  | updated |  |  |  |  |  |  |  |
|  |  |  |  | periodicall |  |  |  |  |  |  |  |
|  |  |  |  | y |  |  |  |  |  |  |  |
| Structural | WCS | Y | N/A | N/A | N/A | Y | Y | Y | N | N | N |  |
| Complexity |  |  |  |  |  |  |  |  |  |  |  |
| Carbonate | University | Y | N/A | N/A | N/A | Y | Y | Y | N | N | N |  |
| budgets | of Exeter |  |  |  |  |  |  |  |  |  |  |
| Trends in | Red List Index of Ecosystems  Ecosystem Area Index  Ecosystem Health Index | IUCN | Y | 2020 | Depend | ~5 years | Y | Y | Y | N | N | N |  |
| fragmentation |  |  |  | s on |  |  |  |  |  |  | (applicat |
| and quality |  |  |  | the |  |  |  |  |  |  | ion |
| of other  marine and coastal |  | X (for some regions) |  | region |  |  |  |  |  |  | pending) |
| ecosystems |  |  |  |  |  |  |  |  |  |  |  |
|  | Red List Index | IUCN | X |  | 2020 | 1993 – | Y | Y | N | N | N | N |  |
|  | (marine |  |  |  | 2020 |  |  |  |  |  |  |
|  | species) |  |  |  | annually |  |  |  |  |  |  |
| Trends in | Wetland Extent | Ramsar | X |  | 2020 | 1970-2015 | Y | Y |  |  | N | Y | Ramsar, |
| fragmentation | Trends Index | Conventio |  |  |  |  |  |  |  | CMS, |
| and quality |  | n |  |  |  |  |  |  |  | IPBES |
| of inland wetlands |  |  |  |  |  |  |  |  |  |  |
| Red List Index  (wetland | IUCN | X |  | 2020 | 1993 –  2020, | Y | Y | N | N | N | N | Ramsar |
|  | species) |  |  |  | annually |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
| GA3. Prevent | Trends in | Number of | IUCN / | X |  | 2020 | 1990, | Y | N | N | N | N | Y | IPBES |
| extinction and | number of | species | BirdLife |  |  | decadally |  |  |  |  |  |  |  |
| improve the | extinctions | extinctions | Internation |  |  |  |  |  |  |  |  |  |  |
| conservation |  | (birds and | al |  |  |  |  |  |  |  |  |  |  |
| status of |  | mammals). |  |  |  |  |  |  |  |  |  |  |  |
| species |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Number of | IUCN / | X |  | 2020 | 1993, | Y | N | N | N | N | Y |  |
|  |  | extinctions | BirdLife |  |  | decadally |  |  |  |  |  |  |
|  |  | prevented by | Internation |  |  |  |  |  |  |  |  |  |
|  |  | conservation | al |  |  |  |  |  |  |  |  |  |
|  |  | action |  |  |  |  |  |  |  |  |  |  |
|  |  | Red List Index | IUCN & | X |  | 2020 | 1993, | Y | Y | N | Y | Y  SDG  indicator 15.5.1 | Y | CMS,  IPBES, |
|  |  |  | BirdLife |  |  | updated |  |  |  |  |  | Ramsar |
|  |  |  | Internation |  |  | annually |  |  |  |  |  |  |
|  |  |  | al |  |  |  |  |  |  |  |  |  |
|  |  | Species | MOL, Yale | X | NA | 2020 | 2001- | Y | Y | N |  | N | Y | IPBES |
|  |  | Habitat Index | University, |  |  |  | 2018, |  |  |  |  |  |  |
|  |  |  | NGS |  |  |  | annually |  |  |  |  |  |  |
|  | Trends in | Red List Index | IUCN & | X |  | 2020 | 1993, | Y | Y | N | Y | Y  SDG  indicator 15.5.1 | Y | CMS,  IPBES, |
|  | conservation |  | BirdLife |  |  | annually |  |  |  |  |  | Ramsar |
|  | status of |  | Internation |  |  |  |  |  |  |  |  |  |
|  | species |  | al |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  | Percentage of threatened species that are improving in status. | IUCN | X | 2024 |  | 1993 | Y | N | N | N | N | N | **CITES** |
| Species Protection Index | Yale University Map of Life | X | N/A | 2020 | 2001 to  2018,  annually | Y | Y | N | N | N | Y | IPBES |
| Wild Bird Index (WBI) | RSPB &  BirdLife Internation al | X | N/A | 2019 | 1968,  annual | Y | Y | Y | Y | N | Y | CMS |
| Number of certified forest areas under sustainable management with verified impacts on biodiversity conservation | FSC | X | N/A | 2020 | 2018,  every five years | Y | Y | Y | N | N | N |  |
| GA4. Increase the number and health of | Trends in species abundance | Living Planet Index (LPI). | ZSL/WWF | X |  | 2020 | 1970,  available every 2 years | Y | Y | N | Y | N | Y | CMS,  Ramsar, IPBES |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
| ~~c~~ ~~ommon~~ species |  | Species Habitat Index | MOL, Yale University, NGS | X | N/A | 2020 | 2001-2018  annually | Y | Y | Y |  | N | N | IPBES |
| Green List of Species | IUCN &  Oxford University | Y | 2021 |  |  | Y | Y |  | N | N | N |  |
| Wild Bird Index (WBI) | RSPB &  BirdLife Internation al | X | N/A | 2019 | 1968,  annual | Y | Y | Y | Y | N | Y | CMS |
| Fish abundance and biomass | Global Coral Reef Monitoring Network | Y | 2021 |  | 1990s | Y | Y | Y |  | N | N | FAO |
| GA5. Maintain Genetic diversity | Trends in the diversity of wild species | Comprehensiv eness of conservation of socioeconomic ally as well as culturally valuable species. | CIAT,  Crop Trust | X |  | 2018 | 2018;  every 3-5 years | Y | Y | Y |  | N | Y |  |
| Trends in the diversity of cultivated plants, farmed and | Agrobiodiversit y Index | Alliance Bioversity & CIAT | Y | 2021 |  | 2021,  annually | Y | Y | Y |  | N | N |  |
| Number of  plant genetic | FAO | X |  | 2019 | 2000-2019 | Y | Y | Y |  | Y | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  | domesticate | resources for |  |  |  |  |  |  |  |  |  | SDG |  |  |
| d animals | food and | indicator |
|  | agriculture | 2.5.1a |
|  | secured in |  |
|  | medium- or |  |
|  | long-term |  |
|  | conservation |  |
|  | facilities |  |
|  | Proportion of | FAO | X |  | 2019 | 2000-2019 | Y | Y | Y |  | Y  SDG  indicator 2.5.2 | Y |  |
|  | local breeds |  |  |  |  |  |  |  |  |
|  | classified as |  |  |  |  |  |  |  |  |
|  | being at risk, |  |  |  |  |  |  |  |  |
|  | not at risk or at |  |  |  |  |  |  |  |  |
|  | an unknown |  |  |  |  |  |  |  |  |
|  | level of risk of |  |  |  |  |  |  |  |  |
|  | extinction. |  |  |  |  |  |  |  |  |
|  | Comprehensiv | CIAT, | X |  | 2018 | 2018; | Y | Y | Y |  | N | Y |  |
|  | eness of | Crop Trust |  |  | every 3-5 |  |  |  |  |  |
|  | conservation of |  |  |  | years |  |  |  |  |  |
|  | socioeconomic |  |  |  |  |  |  |  |  |  |
|  | ally as well as |  |  |  |  |  |  |  |  |  |
|  | culturally |  |  |  |  |  |  |  |  |  |
|  | valuable |  |  |  |  |  |  |  |  |  |
|  | species. |  |  |  |  |  |  |  |  |  |
| Trends in | Red List Index | IUCN & | X | N/A | 2020 | 1988, | Y | Y | N | N | N | Y | CMS, IPBES |
| the diversity | (wild relatives | BirdLife |  |  |  | updated |  |  |  |  |  |  |  |
| of wild | of | Internation |  |  |  | annually |  |  |  |  |  |  |  |
| relatives | domesticated | al |  |  |  |  |  |  |  |  |  |  |  |
|  | animals). |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crop Wild Relative Index | Alliance Bioversity and CIAT & IUCN/CW RSG | Y | 2021 |  | 2021,  annually | Y | Y | Y |  | N | N |  |
| Comprehensiv eness of conservation of socioeconomic ally as well as culturally valuable species. | CIAT,  Crop Trust | X |  | 2018 | 2018;  every 3-5 years | Y | Y | Y |  | N | Y |  |
| GA6.  Protection of critical ecosystems | Trends in area of terrestrial and inland water areas conserved | Number of certified forest areas under sustainable management with verified impacts on watershed conservation | FSC | X | N/A | 2020 | 2018,  every 5 years | Y | Y | Y | N | Y | N |  |
| Trends in area of coastal and | Coastal protection index | NatCap | Y |  |  |  | Y | Y |  | N | N | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  | marine | Proportion of | Reef Life | Y | 2022 |  | 2014, ~5- | Y | Y |  |  | N | N |  |
| areas | assessed | Survey |  |  | 10 years |  |  |  |  |
| conserved | marine |  |  |  |  |  |  |  |  |
|  | protected |  |  |  |  |  |  |  |  |
|  | areas that are |  |  |  |  |  |  |  |  |
|  | ecologically |  |  |  |  |  |  |  |  |
|  | effective |  |  |  |  |  |  |  |  |
| Trends in | Protected Area | BirdLife | X | N/A | 2020 | 1900, | Y | Y | Y | Y | Y (for | Y | Ramsar, |
| areas of | Coverage of | Internation |  |  |  | annually |  |  |  |  | marine, |  | IPBES |
| particular | Key | al, UNEP- |  |  |  |  |  |  |  |  | terrestrial, |  |  |
| importance | Biodiversity | WCMC & |  |  |  |  |  |  |  |  | freshwate |  |  |
| for | Areas. | IUCN |  |  |  |  |  |  |  |  | r and |  |  |
| biodiversity |  |  |  |  |  |  |  |  |  |  | mountain |  |  |
| conserved |  |  |  |  |  |  |  |  |  |  | subsets) |  |  |
|  |  |  |  |  |  |  |  |  |  |  | SDG |  |  |
|  |  |  |  |  |  |  |  |  |  |  | indicator |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 14.5.1, |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 15.1.2, |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 15.4.1 |  |  |
|  | Number of  certified forest  areas under  sustainable  management  with verified  impacts on  biodiversity  conservation | FSC | X | N/A | 2020 | 2018, | Y | Y | Y | N | N | N | Countries are to develop country specific standards for certification of forests |
|  |  |  |  |  | every 5 |  |  |  |  |  |  |
|  |  |  |  |  | years |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  | Species | Yale | X | N/A | 2020 | 2001 to | Y | Y | N | N | N | Y | IPBES |
| Protection | University |  |  |  | 2018, |  |  |  |  |  |  |  |
| Index | Map of Life |  |  |  | annually |  |  |  |  |  |  |  |
| Proportion of | BirdLife | Y | 2025 |  |  | Y | Y | Y | N | N | N |  |
| KBAs in | Internation |  |  |  |  |  |  |  |  |
| favourable | al on |  |  |  |  |  |  |  |  |
| condition | behalf of |  |  |  |  |  |  |  |  |
|  | the KBA |  |  |  |  |  |  |  |  |
|  | Partnershi |  |  |  |  |  |  |  |  |
|  | p |  |  |  |  |  |  |  |  |
| Trends in | Proportion of | BirdLife | X | N/A | 2020 | 1819 – | Y | Y |  | Y | N | Y |  |
| areas of | important sites | Internation |  |  |  | 2020, |  |  |  |  |  |
| particular | for terrestrial | al, UNEP- |  |  |  | annually |  |  |  |  |  |
| importance | and freshwater | WCMC & |  |  |  |  |  |  |  |  |  |
| for | biodiversity | IUCN |  |  |  |  |  |  |  |  |  |
| ecosystem | that are |  |  |  |  |  |  |  |  |  |  |
| services | covered by |  |  |  |  |  |  |  |  |  |  |
| conserved | protected |  |  |  |  |  |  |  |  |  |  |
|  | areas, by |  |  |  |  |  |  |  |  |  |  |
|  | ecosystem |  |  |  |  |  |  |  |  |  |  |
|  | type |  |  |  |  |  |  |  |  |  |  |
|  | Number of | FSC | Y | 2022 | N/A | N/A | Y | Y | Y | N | N | N |  |
|  | certified forest |  |  |  |  |  |  |  |  |  |  |  |
|  | areas under |  |  |  |  |  |  |  |  |  |  |  |
|  | sustainable |  |  |  |  |  |  |  |  |  |  |  |
|  | management |  |  |  |  |  |  |  |  |  |  |  |
|  | with High |  |  |  |  |  |  |  |  |  |  |  |
|  | Conservation |  |  |  |  |  |  |  |  |  |  |  |
|  | Values |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in ecological representati veness of areas conserved | Protected Area Representative ness Index. | CSIRO | X | N/A | 2018 | 1970 to  2010:  decadal  2010  onwards: biennial | Y | Y | N | N | N | Y |  |
| Trends in ecological representati veness of areas conserved | Species Protection Index | Yale University Map of Life | X | N/A | 2020 | 2001 to  2018,  annually | Y | Y | N | N | N | Y | IPBES |
| GB1. Nature’s regulating contributions including climate regulation, disaster prevention and other | Trends in habitat creation and maintenance | Number of certified forest areas under sustainable management with verified impacts on habitat conservation/ restoration | FSC | X | N/A | 2020 | 2018,  every 5 years | Y | Y | Y | N | N | N |  |
| Trends in pollination and dispersal of  seeds and | Red List Index (pollinating species) | IUCN &  BirdLife Internation al | X |  | 2020 | 1993 –  2020,  updated | Y | Y | N | Y | N | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  | other |  |  |  |  |  | periodicall |  |  |  |  |  |  |  |
| propagules | y |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| regulation of | determined |
| air quality |  |
| Trends in | Number of | FSC | X | N/A | 2020 | 2018, | Y | Y | Y | N | N | N |  |
| regulation of | certified forest |  |  |  |  | every 5 |  |  |  |  |  |  |
| climate | areas under |  |  |  |  | years |  |  |  |  |  |  |
|  | sustainable |  |  |  |  |  |  |  |  |  |  |  |
|  | management |  |  |  |  |  |  |  |  |  |  |  |
|  | with verified |  |  |  |  |  |  |  |  |  |  |  |
|  | impacts on |  |  |  |  |  |  |  |  |  |  |  |
|  | carbon |  |  |  |  |  |  |  |  |  |  |  |
|  | sequestration/s |  |  |  |  |  |  |  |  |  |  |  |
|  | torage |  |  |  |  |  |  |  |  |  |  |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| regulation of | determined |
| ocean |  |
| acidification |  |
| Trends in | Number of | FSC | X | N/A | 2020 | 2018, | Y | Y | Y | N | N | N | Countries are to develop country specific standards for certification of forests |
| regulation of | certified forest |  |  |  |  | every 5 |  |  |  |  |  |  |
| freshwater | areas under |  |  |  |  | years |  |  |  |  |  |  |
| quantity, | sustainable |  |  |  |  |  |  |  |  |  |  |  |
| *quality*, | management |  |  |  |  |  |  |  |  |  |  |  |
| location and | with verified |  |  |  |  |  |  |  |  |  |  |  |
| timing |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  |  | impacts on water quality |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in regulation of freshwater and coastal water quality | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in formation, protection and decontamina tion of soils and sediments | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in regulation of hazards and extreme events | Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000  population | UNISDR | X | N/A | 2018 | 2018 | Y | Y | N |  | Y  SDG  indicator 11.5.1 | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| regulation of | determined |
| detrimental |  |
| organisms |  |
| and |  |
| biological |  |
| processes |  |
| GB2. Nature’s | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| material | the provision | determined |
| contributions | of energy |  |
| including food, | supply from |  |
| water and | biological |  |
| others | resources |  |
|  | Trends in | Red List Index | IUCN & | X |  | 2020 | 1993 – | Y | Y | N | N | N | Y |  |
|  | the provision | (impacts of | BirdLife |  |  | 2020, |  |  |  |  |  |  |
|  | of food and | fisheries) | Internation |  |  | updated |  |  |  |  |  |  |
|  | feed from |  | al |  |  | periodicall |  |  |  |  |  |  |
|  | biodiversity |  |  |  |  | y |  |  |  |  |  |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | the provision | determined |
|  | of materials |  |
|  | and |  |
|  | assistance |  |
|  | from |  |
|  | biodiversity |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | the provision | determined |
|  | of medicinal, |  |
|  | biochemical |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  | and genetic resources from biodiversity |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GB3. Nature’s non-material contributions including cultural | Learning and inspiration | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Physical and psychologic al experiences | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Supporting identities | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Maintenance of options  *Cultural values* | Number of certified forest areas under sustainable management with verified impacts on recreational services | FSC | X | N/A | 2020 | 2018,  every 5 years | Y | Y | Y | N | N | N | Countries are to develop country specific standards for certification of forests |
| GC1. Access to Genetic resources | Trends in access to genetic resources | To be determined |  |  |  |  |  |  |  |  |  |  |  | CBD and Nagoya Protocol |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
| GC2. Sharing of the benefits | Trends in the benefits from the access to genetic resources shared | Number of countries that have adopted legislative, administrative and policy frameworks to ensure fair and equitable sharing of benefits | Secretariat of the CBD | Y | N/A | 2018 | 2016-2018 | Y | Y | Y |  | Y  SDG  indicator 15.6.1 | N |  |
| GD1. | Trends in | Official | OECD | X | N/A | 2018 | 2002- | Y | Y | Y |  | Y  SDG  indicator 15.a.1 | Y |  |
| Availability of | the | development |  |  |  |  | 2018, |  |  |  |  |
| sufficient | mobilization | assistance for |  |  |  |  | annually |  |  |  |  |
| financial | financial | biodiversity |  |  |  |  |  |  |  |  |  |
| resources | resources |  |  |  |  |  |  |  |  |  |  |
|  | from public |  |  |  |  |  |  |  |  |  |  |
|  | international |  |  |  |  |  |  |  |  |  |  |
|  | financial |  |  |  |  |  |  |  |  |  |  |
|  | flows |  |  |  |  |  |  |  |  |  |  |
|  | Trends in | Revenue from | OECD | X | N/A | 2020 | 1990- | Y | Y | Y |  | Y  SDG  indicator 15.a.1 | N |  |
|  | public | biodiversity |  |  |  |  | 2020, |  |  |  |  |
|  | domestic | related |  |  |  |  | annually |  |  |  |  |
|  | resource | economic |  |  |  |  |  |  |  |  |  |
|  | mobilization | instruments |  |  |  |  |  |  |  |  |  |
|  | Trends in |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | the |
|  | mobilization |
|  | of financial |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
|  | resources | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| from private | determined |
| sector |  |
| Trends in  the  mobilization  of financial  resources  from  charitable  organisations | Biodiversity-  related  philanthropic  funding | OECD | X | N/A | 2018 | 2017-2018 | N | N | Y |  | N | N |  |
| GD2. Sufficient | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| capacity | support to | determined |
| building, | capacity |  |
| technology | building |  |
| transfer and scientific cooperation |  |  |
| Trends in capacity  building  activities | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | technology | determined |
|  | transfer |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | scientific | determined |
|  | cooperation |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the 2050 Goal** | **Monitoring Elements** | **Indicators** | **Responsibl e Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data are aggregated to from global indicator (Y/N)** | **Used in GBO4(Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator** | **Indicator used to measure other MEAs or processes** |
| GD3. Access | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| to technology | access to | determined |
|  | relevant |  |
|  | technologies |  |

**Table 2. Available indicators for monitoring elements of the proposed targets**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| **Reducing threats to biodiversity** | | | | | | | | | | | | | | |
| T1.1. Increase in area of terrestrial, freshwater and  marine | Trends in area under spatial land-  use plans | Percentage of spatial plans utilising | KBA  Partnership | Y | 2025 |  |  |  | Y | Y | N | N | N |  |
| ecosystems under |  | information |  |  |  |  |  |  |  |  |
| spatial planning |  | on Key |  |  |  |  |  |  |  |  |
|  |  | Biodiversity |  |  |  |  |  |  |  |  |
|  |  | Areas |  |  |  |  |  |  |  |  |
|  |  | Percentage of plans | MOL, Yale  University, | Y |  |  |  |  | Y | N | N | N | N |  |
|  |  | using SPI | EOWBF |  |  |  |  |  |  |
|  |  | high-res |  |  |  |  |  |  |  |
|  |  | spatial |  |  |  |  |  |  |  |
|  |  | priority maps |  |  |  |  |  |  |  |
|  | Trends in area under integrated coastal zone  managemen | Proportion of national exclusive economic zones | UN  Environment Programme - Regional Seas | Y | 2021 |  | Every 5 years | Y | Y | Y |  | Y  SDG  indicator 14.2.1 | N |  |
|  | t | managed |  |  |  |  |  |  |  |  |  |
|  |  | using |  |  |  |  |  |  |  |  |  |
|  |  | ecosystem- |  |  |  |  |  |  |  |  |  |
|  |  | based |  |  |  |  |  |  |  |  |  |
|  |  | approaches |  |  |  |  |  |  |  |  |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  | UNCLOS |
|  | area under | determined |
|  | marine |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | spatial planning |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1.2. Prevention of reduction and fragmentation of natural habitats due to land/sea use change | Trends in extent and rate of change of forest ecosystems | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in extent and rate of change of dry and sub- humid lands | Trends in land cover change | UNCCD | X | N/A | 2018 | 2000-  2018,  annually | Y | Y | Y | N | Y  SDG  indicator 15.3.1  sub- indicator on land cover | N | UNCCD |
| Forest area as a percentage of total land area | FAO | X | N/A | 2020 | 2000-2015 | Y | Y | N |  | Y  SDG  indicator 15.1.1 | Y |  |
| Tree cover loss | WRI (Global Forest Watch) | X | N/A | 2020 | 2001 –  2020,  annually | Y |  |  | N | N | N |  |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Primary forest  deforestation | WRI (Global Forest Watch) | X | N/A |  | 2002,  annually | Y | Y |  | N | N | N |  |
| Forest Landscape Integrity Index | WCS | Y | 2019 | 2019 | Annually |  | Y | Y | N | N | N |  |
| Red List Index (forest- dependent  species) | IUCN | X | N/A | 2020 | 1993 –  2020,  annually | Y | Y | N | N | N | Y |  |
| Forest Specialists Living Planet  Index (LPI) | ZSL/WWF | X | N/A | 2018 | 1970,  annually | Y | Y | N | N | N | Y |  |
| Species Habitat Index | MOL, Yale University, NGS | X | N/A | 2020 | 2001-  2018,  annually | Y | Y | Y |  | N | N | IPBES |
| Human footprint index | WCS/UQ/UNB C/NGS | Y | 2020 | 2013 | 1993 | Y | Y |  |  | N | N |  |
| Ecosystem Intactness index | WCS | Y | 2020 | N/A | 2010 | Y | N | N | N | N | N |  |
|  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | Trends in extent and rate of change of in grasslands | Species Habitat Index | MOL, Yale University, NGS | X | N/A | 2020 | 2001-  2018,  annually | Y | Y | Y |  | N | N | IPBES |
| Ecosystem intactness index | WCS | Y | 2020 | N/A | 2010 | Y | N | N | N | N | N |  |
| Trends in extent and rate of change of other terrestrial ecosystems | Species Habitat Index | MOL, Yale University, NGS | X | N/A | 2020 | 2001-  2018,  annually | Y | Y | Y |  | N | N | IPBES |
| Biodiversity Habitat Index | CSIRO | X | N/A | 2015 | 2005,  2010,  2015 | Y | Y | Y |  | N | Y |  |
| Ecosystem Area Index  Ecosystem Health Index  Red List Index of Ecosystems | IUCN | Y  X (for some regions) | Depends on the region (2020 or  earlier) | Depends on the region | 5 years (dependin g on the region) | Y | Y | Y | N | N | N  (applicati on pending) |  |
| Change in Ecosystem composition, structure and function | NASA/JPL | Y | 2026 | N/A | 2026 | Y | Y |  |  | N | N |  |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Biotic integrity index | UNEP-WCMC | Y | 2021 | N/A | 2010 | Y | Y |  | N | N | N |  |
| Ecosystem Intactness Index | WCS | Y | 2020 | N/A | 2010 | Y | N | N | N | N | N |  |
| Human footprint index | WCS/UQ/UNB C/NGS | Y | 2020 | 2013 | 1993 | Y | Y |  |  | N | N |  |
| Trends in extent and rate of change of mangroves | Continuous Global Mangrove Forest Cover | Salisbury University | X | N/A | 2020 | 2000-  2014,  every 5 years | Y | Y | N |  | N | Y |  |
| Trends in mangrove extent | Global Mangrove Watch | X | N/A | 2018 | 1996-2016 |  | Y | N | N | Y  SDG  indicator 6.6.1 | N | Ramsar |
| Trends in extent and rate of change of coral reefs | Live coral cover | Global Coral Reef Monitoring Network | Y |  | 2020 | 1970s-  2000s,  annually | Y | Y | Y | Y | N | Y | IPBES |
| Hard coral genera richness | Global Coral Reef | X | 2021 |  |  |  |  |  |  | N | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  |  | Monitoring Network |  |  |  |  |  |  |  |  |  |  |  |
| Coral Reef extent and condition | Global Coral Reef Monitoring Network | Y | 2021 |  | 1980s/199  0s | Y | Y |  |  | N | N |  |
| Fleshy algae  cover | Global Coral  Reef Monitoring Network | X | N/A | 2020 | 1980s/199  0s | Y | Y | Y |  | N | N |  |
| Cover of key  benthic groups | Global Coral  Reef Monitoring Network | Y | 2022 |  | 1980s/199  0s | Y | Y | Y |  | N | N |  |
| Fish  abundance and biomass | Global Coral  Reef Monitoring Network | Y | 2021 |  | 1990s | Y | Y | Y |  | N | N |  |
| Red List  Index (coral species) | IUCN | X |  | 2008 | 1998,  updated periodicall y | Y | Y | N | N | N | Y | Ramsar |
| Structural Complexity | WCS | Y | N/A | N/A | N/A | Y | Y | Y | N | N | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Carbonate budgets | University of Exeter | Y | N/A | N/A | N/A | Y | Y | Y | N | N | N |  |
| Large Reef Fish Index | Reef Life Survey | Y | 2022 | 2016  (Australia only) | 2015, ~5-  10yrs | Y | Y | Y |  | N | Y |  |
| Reef Fish Thermal Index | Reef Life Survey | Y | 2022 | 2016  (Australia only) | 2015, ~5-  10yrs | Y | Y | Y |  | N | Y |  |
| Trends in extent and rate of change of seagrass ecosystems | Global seagrass extent | UNEP-  WCMC, Fred Short, Smithsonian, and C-GRASS partners (GOOS  seagrass EOV network) | X | 2020 | 2020 | N/A |  |  | Y |  | N | N |  |
| Trends in extent and rate of change of other marine and coastal ecosystems | Ecosystem Area Index  Ecosystem Health Index  Red List Index for Ecosystems | IUCN | Y  X (for some regions) | 2020 | Depends on the region | ~5 years | Y | Y | Y | N | N | N  (applicati on pending) N |  |
| Cumulative human | National Centre for | X | N/A |  |  | Y | Y |  |  | N | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | impacts on marine ecosystems. | Ecological Analysis and Synthesis |  |  |  |  |  |  |  |  |  |  |  |
| Red List Index (marine species) | IUCN | X |  | 2020 | 1993 –  2020  annually | Y | Y | N | N | N | N |  |
| Large Reef Fish Index | Reef Life Survey | Y | 2022 | 2016  (Australia only) | 2015, ~5-  10yrs | Y | Y | Y |  | N | Y |  |
| Reef Fish Thermal Index | Reef Life Survey | Y | 2022 | 2016  (Australia only) | 2015, ~5-  10yrs | Y | Y |  |  |  | Y |  |
| Trends in extent and rate of change of wetlands | Wetland Extent Trends Index | Ramsar Convention | X | N/A |  |  | N | N |  |  |  |  | Ramsar |
| Change on the extent of water related ecosystems | Ramsar Convention on Wetlands- UNEP co-  custodian agencies | X |  |  | 2018  (triennial for Ramsar) | Y | Y | Y  SDG  indicator 6.6.1 |  | Y |  | Ramsar Convention on Wetlands- SDG6 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Red List | IUCN | X |  | 2020 | 1993 – | Y | Y | N | N | N | N | Ramsar |
| Index |  |  |  | 2020, |  |  |  |  |  |  |  |
| (wetland |  |  |  | annually |  |  |  |  |  |  |  |
| species) |  |  |  |  |  |  |  |  |  |  |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  | ITPGRFA |
| forest and | determined |
| agriculture |  |
| lands as a |  |
| proportion of |  |
| total land |  |
| area |  |
| Trends in | Farmland | ICRAF | Y | 2021 |  | Sub- | Y | Y | Y | N | N | N |  |
| farmland | Biodiversity |  |  |  | annually |  |  |  |  |  | (applicati |
| biodiversity | Score |  |  |  |  |  |  |  |  |  | on |
| and |  |  |  |  |  |  |  |  |  |  | pending) |
| sustainability |  |  |  |  |  |  |  |  |  |  |  |
| of |  |  |  |  |  |  |  |  |  |  |  |
| agricultural |  |  |  |  |  |  |  |  |  |  |  |
| land |
| Percentage | Alliance of | X |  | 2015 | Annually | Y | Y | Y |  |  |  |  |
|  | of cropped | Bioversity and |  |  |  |  |  |  |
|  | landscapes | CIAT |  |  |  |  |  |  |
|  | with at least |  |  |  |  |  |  |  |
|  | 10% natural |  |  |  |  |  |  |  |
|  | land |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1.3. Priority retention of intact / wilderness areas | Trends in extent of natural intact  / wilderness | Human footprint index | WCS/UQ/UNB C/NGS | Y | 2020 | 2013 | 1993 | Y | Y | N | N |
|  |  | Ecosystem Area Index  Ecosystem Health Index | IUCN | Y  X (for some regions) | 2020 | 2020 | 5 years (dependin g on the region) | Y | Y | Y | N | N | N  (applicati on pending) |  |
|  |  | Red List Index of Ecosystems |  |  |  |  |  |  |  |  |  |  |  |
| T1.4. Restoration | Trend in the | Global | GEO BON - | X | N/A |  |  | Y | Y |  |  | N | N |  |
| of degraded | area of | Ecosystem | iDiv |  |  |  |  |  |  |
| ecosystems | degraded | Restoration |  |  |  |  |  |  |  |
|  | forest | Index |  |  |  |  |  |  |  |
|  | ecosystems restored |  |  |  |  |  |  |  |  |
| Proportion of land that is degraded over total land area | UNCCD | X | N/A | 2015 | 2000-  2015,  every four years | Y | Y | Y | N | Y  SDG  indicator 15.3.1 | Y |  |
|  |  | Ecosystem | WCS | Y | 2020 | N/A | 2010 | Y | N | N | N | N | N |  |
|  |  | Intactness |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Index |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | Trend in the | Global | GEO BON - | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |
| degraded | Restoration |  |  |  |  |  |  |  |
| dry and sub- | Index |  |  |  |  |  |  |  |
| humid lands |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| restored | Ecosystem | WCS | Y | 2020 | N/A | 2010 | Y | N | N | N | N | N |
|  | Intactness |  |  |  |  |  |  |  |  |  |  |  |
|  | Index |  |  |  |  |  |  |  |  |  |  |  |
| Trend in the | Global | GEO BON - | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |
| Degraded | Restoration |  |  |  |  |  |  |  |
| grassland | Index |  |  |  |  |  |  |  |
| ecosystems |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| restored | Ecosystem | WCS | Y | 2020 | N/A | 2010 | Y | N | N | N | N | N |
|  | Intactness |  |  |  |  |  |  |  |  |  |  |  |
|  | Index |  |  |  |  |  |  |  |  |  |  |  |
| Trend in the | Global | GEO BON - | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |
| Degraded | Restoration |  |  |  |  |  |  |  |
| other | Index |  |  |  |  |  |  |  |
| terrestrial |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ecosystems restored | Ecosystem Intactness | WCS | Y | 2020 | N/A | 2010 | Y | N | N | N | N | N |
|  | Index |  |  |  |  |  |  |  |  |  |  |  |
| Trend in the | Global | GEO BON - | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |
| Degraded |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | mangrove | Restoration |  |  |  |  |  |  |  |  |  |  |  |  |
| forest | Index |
| restored |  |
| Trend in the | Global | GEO BON – | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |
| Degraded | Restoration |  |  |  |  |  |  |  |
| corals | Index |  |  |  |  |  |  |  |
| restored |  |  |  |  |  |  |  |  |
| Trend in the | Global | GEO BON – | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |
| Degraded | Restoration |  |  |  |  |  |  |  |
| seagrass | Index |  |  |  |  |  |  |  |
| restored |  |  |  |  |  |  |  |  |
| Trend in the | Global | GEO BON - | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |
| Degraded | Restoration |  |  |  |  |  |  |  |
| other marine | Index |  |  |  |  |  |  |  |
| and coastal |  |  |  |  |  |  |  |  |
| ecosystems |  |  |  |  |  |  |  |  |
| restored |  |  |  |  |  |  |  |  |
| Trend in the | Global | GEO BON – | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |
| Degraded | Restoration |  |  |  |  |  |  |  |
| wetlands | Index |  |  |  |  |  |  |  |
| restored |  |  |  |  |  |  |  |  |
| Trend in the | Global | GEO BON – | X | N/A |  |  | Y | Y |  |  | N | N |  |
| area of | Ecosystem | iDiv |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | converted agricultural lands restored | Restoration Index |  |  |  |  |  |  |  |  |  |  |  |  |
| Farmland Biodiversity Score | ICRAF | Y | 2021 |  | Sub- annually | Y | Y | Y |  | N | N  (applicati on pending) |  |
| Percentage of cropped landscapes with at least 10% natural land | Alliance of Bioversity and CIAT | X |  | 2015 | Annually | Y | Y | Y |  |  |  |  |
|  |  |
| T1.5. Maintenance and restoration of connectivity of natural ecosystems | Trends in habitat connectivity | Protected Area Connectedn ess Index | CSIRO | X | N/A | 2019 |  | Y | Y | N | N | N | Y |  |
| Bioclimatic Ecosystem Resilience Index (BERI):  present-day connectedne ss component | CSIRO | X | N/A | 2015 | 2005,  2010,  2015 | Y | Y | N | N | N | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Measures for connectivity (e.g.  Protected Connected (Protconn). | European Commission | X | N/A |  |  | Y | Y |  |  | N | Y |  |
| Ecosystem Intactness index | WCS/UQ/UNB C | Y | 2020 |  | 1993 | Y | Y |  |  |  | N |  |
| Red List Index (migratory species) | IUCN, BirdLife | X |  | 2020 | 1993 –  2020,  annually | Y | Y | N | Y | N | Y |  |
| T2.1. Area of terrestrial, freshwater and marine ecosystem under protection and conservation | Trends in extent of protected areas | Protected area coverage. | UNEP-WCMC | X | N/A | 2020 |  | Y | Y |  | Y | N | Y |  |
| Trends in extent of areas under other area- based conservation measures | OECM  coverage | UNEP-WCMC | Y | 2021 | N/A |  | Y |  |  | N | N | N |  |
| Area of forest under sustainable management  : total FSC and PEFC  forest | PEFC, FSC | X | N/A | PEFC: 2020 | PEFC: 1999-  2010:  annually 2011-2020 | Y | PEFC: Y | PEFC: Y | Y | N | Y | N |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | management |  |  |  |  | quarterly |  |  |  |  |  |  |  |
| certification. |  |
| Progress | FAO | X | N/A | 2020 | 2000 - | Y | Y | Y | Y | Y  SDG  indicator 15.2.1 | Y |  |
| towards |  |  |  |  | 2018 |  |  |  |  |  |
| sustainable |  |  |  |  |  |  |  |  |  |  |
| forest |  |  |  |  |  |  |  |  |  |  |
| management |  |  |  |  |  |  |  |  |  |  |
| T2.2. Areas of | Trends in | Protected | BirdLife | X | N/A | 2020 | 1900, | Y | Y | Y | Y | Y ( | Y | Ramsar, |
| particular | proportion of | Area | International, |  |  |  | annually |  |  |  |  | marine, |  | IPBES |
| importance for | areas of | Coverage of | UNEP-WCMC |  |  |  |  |  |  |  |  | terrestria |  |  |
| biodiversity are | particular | Key | & IUCN |  |  |  |  |  |  |  |  | l, |  |  |
| protected and | importance | Biodiversity |  |  |  |  |  |  |  |  |  | freshwat |  |  |
| conserved as | for | Areas |  |  |  |  |  |  |  |  |  | er and |  |  |
| priority | biodiversity |  |  |  |  |  |  |  |  |  |  | mountain |  |  |
|  | protected |  |  |  |  |  |  |  |  |  |  | subsets) |  |  |
|  | and conserved |  |  |  |  |  |  |  |  |  |  | SDG  indicator |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 14.5.1, |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 15.1.2, |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 15.4.1 |  |  |
|  |  | Proportion of | BirdLife | X | N/A | 2020 | 1819 – | Y | Y | Y | Y | N | Y |  |
|  |  | important | International, |  |  |  | 2020, |  |  |  |  |  |  |
|  |  | sites for | UNEP-WCMC |  |  |  | annually |  |  |  |  |  |  |
|  |  | terrestrial | & IUCN |  |  |  |  |  |  |  |  |  |  |
|  |  | and |  |  |  |  |  |  |  |  |  |  |  |
|  |  | freshwater |  |  |  |  |  |  |  |  |  |  |  |
|  |  | biodiversity |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | that are |  |  |  |  |  |  |  |  |  |  |  |  |
| covered by |
| protected |
| areas, by |
| ecosystem |
| type |
| Proportion of | BirdLife | Y | 2025 |  |  | Y | Y | Y | N | N | N |  |
| KBAs in | International |  |  |  |  |  |  |  |  |
| favourable | on behalf of |  |  |  |  |  |  |  |  |
| condition | the KBA |  |  |  |  |  |  |  |  |
|  | Partnership |  |  |  |  |  |  |  |  |
| Species | Yale | X | N/A | 2020 | 2001 to | Y | Y | N | N | N | Y | IPBES  CITES Appendix III |
| Protection | University |  |  |  | 2018, |  |  |  |  |  |  |  |
| Index | Map of Life |  |  |  | annually |  |  |  |  |  |  |  |
| Proportion of | UNEP- | Y | 2025 |  | Annually | N | y | N | N | N | N |  |
| important | WCMC, |  |  |  |  |  |  |  |  |  |
| sites for | WCPA, |  |  |  |  |  |  |  |  |  |
| terrestrial,  freshwater and marine | WDKBA,  EBSA  database |  |  |  |  |  |  |  |  |  |
| biodiversity |  |  |  |  |  |  |  |  |  |  |
| that are |  |  |  |  |  |  |  |  |  |  |
| conserved |  |  |  |  |  |  |  |  |  |  |
| by PAs or |  |  |  |  |  |  |  |  |  |  |
| OECMs |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | % of | UNEP-WCMC | Y | 2024 | N/A |  |  |  |  |  | N | N |  |
| PAs/OECMs | and IUCN |  |  |  |  |  |
| by area | through |  |  |  |  |  |
| meeting their ecological | PAME/WDP/N  BSAPS |  |  |  |  |  |
| objectives |  |  |  |  |  |  |
| % of | UNEP\_WCM | Y | 2024 | N/A |  |  |  |  |  | N | N |  |
| PAs/OECM | C and IUCN |  |  |  |  |  |
| by area, | through |  |  |  |  |  |
| which have | PAME/ |  |  |  |  |  |
| implemented  management | WDPA |  |  |  |  |  |
| (comprehens |  |  |  |  |  |  |
| ive / partial / |  |  |  |  |  |  |
| minimal / |  |  |  |  |  |  |
| don’t know |  |  |  |  |  |  |
| Number of | FSC | X | N/A | 2020 | 2018, | Y | Y | Y | N | N | N |  |
| certified |  |  |  |  | every 5 |  |  |  |  |  |  |
| forest areas |  |  |  |  | years |  |  |  |  |  |  |
| under |  |  |  |  |  |  |  |  |  |  |  |
| sustainable |  |  |  |  |  |  |  |  |  |  |  |
| management |  |  |  |  |  |  |  |  |  |  |  |
| with verified |  |  |  |  |  |  |  |  |  |  |  |
| impacts on |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | biodiversity |
| conservation |
| Number of | FSC | Y | 2022 | N/A | N/A | Y | Y | Y | N | N | N |  |
| certified |  |  |  |  |  |  |  |  |  |  |  |
| forest areas |  |  |  |  |  |  |  |  |  |  |  |
| under |  |  |  |  |  |  |  |  |  |  |  |
| sustainable |  |  |  |  |  |  |  |  |  |  |  |
| management |  |  |  |  |  |  |  |  |  |  |  |
| with High |  |  |  |  |  |  |  |  |  |  |  |
| Conservation |  |  |  |  |  |  |  |  |  |  |  |
| Values |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2.3. | Trends in | Protected | CSIRO | X | N/A | 2018 | 1970 to  2010:  decadal  2010  onwards: biennial | Y | Y | N | N | N | Y |  |
| Representative | ecological | Area |  |  |  |  |  |  |  |  |  |  |
| system of | representati | Representation |  |  |  |  |  |  |  |  |  |  |
| protected areas | veness of | veness |  |  |  |  |  |  |  |  |  |  |
| and other effective | areas | Index. |  |  |  |  |  |  |  |  |  |  |
| area-based | conserved |  |  |  |  |  |  |  |  |  |  |  |
| conservation |  |  |  |  |  |  |  |  |  |  |  |  |
| measures |  |  |  |  |  |  |  |  |  |  |  |  |
| Species | Yale | X | N/A | 2020 | 2001 to | Y | Y | N | N | N | Y | IPBES |
|  |  | Protection | University |  |  |  | 2018, |  |  |  |  |  |  |  |
|  |  | Index | Map of Life |  |  |  | annually |  |  |  |  |  |  |  |
|  |  | Proportion of | Terrestrial | X | N/A | 2019 | 2019, | Y | Y |  |  | N | N |  |
|  |  | terrestrial, | Ecoregions |  |  |  | annually |  |  |  |  |
|  |  | freshwater | (Dinerstein et |  |  |  |  |  |  |  |  |
|  |  | and marine | al.) |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | ecological regions which are conserved by PAs or OECMs. | Marine Ecoregions (Spalding et al.)  Freshwater ecoregions |  |  |  |  |  |  |  |  |  |  |  |
|  | (Abell et al.) |
|  | Terrestrial ecosystems (Sayre et al.) |
|  | National/Regi onal equivalents. |
|  | WDPA |
|  | WD-OECM |
|  | + |
|  | National  /Regional equivalents. |
| T2.4. Effective and equitable management of the system of protected areas | Trends in managemen t effectivenes s | Protected Areas Management Effectivenes s | UNEP-WCMC | X | N/A | 2020 | 2017,  monthly | Y | Y |  |  | N | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| and other effective |  | [Percentage/ | French | Y | 2021 |  |  | Y | Y | Y | N | N | N |  |
| area-based | area] of coral | Agency for |  |  |  |  |  |  |  |  |
| conservation | reefs | Biodiversity |  |  |  |  |  |  |  |  |
| measures | included in |  |  |  |  |  |  |  |  |  |
|  | effectively |  |  |  |  |  |  |  |  |  |
|  | managed |  |  |  |  |  |  |  |  |  |
|  | MPAs and |  |  |  |  |  |  |  |  |  |
|  | OECMs |  |  |  |  |  |  |  |  |  |
|  |  | % of | UNEP\_WCM | Y | 2022 |  |  |  |  |  |  | N | N |  |
|  | PAs/OECMs | C and IUCN |  |  |  |  |
|  | by area with | through |  |  |  |  |
|  | documented | PAME/ |  |  |  |  |
|  | ecological  objectives | WDPA |  |  |  |  |
|  | (PA |  |  |  |  |  |
|  | Effectively |  |  |  |  |  |
|  | protected) |  |  |  |  |  |
|  | Trends in | Social | IIED | Y | 2021 | N/A |  |  |  |  | N | N | N |  |
|  | proportion of | Assessment |  |  |  |  |  |  |  |
|  | protected | of |  |  |  |  |  |  |  |
|  | areas and | Governance |  |  |  |  |  |  |  |
|  | other | and Equity |  |  |  |  |  |  |  |
|  | effective | (SAGE) |  |  |  |  |  |  |  |
|  | area-based conservation measures under various |  |  |  |  |  |  |  |  |
| Number and area of PA/CAs in each of the  four | UNEP-WCMC  and ICCA Consortium - WDPA | Y | 2019 | N/A |  |  |  |  |  | N | N |  |
|  |  | governance |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | governance | types with | and ICCA |  |  |  |  |  |  |  |  |  |  |  |
| regimes | community | registry |
|  | governance |  |
|  | subdivided |  |
|  | into self- |  |
|  | proclaimed |  |
|  | ICCAs and |  |
|  | other |  |
|  | Percentage | WDPA - | Y | N/A | N/A |  |  |  |  |  | N | N |  |
|  | (%) of | NBSAPS |  |  |  |  |  |
|  | PA/CA and |  |  |  |  |  |  |
|  | OECMs |  |  |  |  |  |  |
|  | actively |  |  |  |  |  |  |
|  | implementin |  |  |  |  |  |  |
|  | g effective |  |  |  |  |  |  |
|  | measures to |  |  |  |  |  |  |
|  | recognise |  |  |  |  |  |  |
|  | and respect |  |  |  |  |  |  |
|  | the |  |  |  |  |  |  |
|  | knowledge |  |  |  |  |  |  |
|  | and rights of |  |  |  |  |  |  |
|  | indigenous |  |  |  |  |  |  |
|  | and local |  |  |  |  |  |  |
|  | communities |  |  |  |  |  |  |
|  | Proportion of | Reef Life | Y | 2022 |  | 2014, ~5- | Y | Y |  |  | N | N |  |
|  | assessed | Survey |  |  | 10 years |  |  |  |  |
|  | marine |  |  |  |  |  |  |  |  |
|  | protected |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | areas that are ecologically effective |  |  |  |  |  |  |  |  |  |  |  |  |
| T2.5. Connectivity within the system of protected areas and other effective area-based conservation measures | Trend in connectivity of protected areas and other effective area-based conservation measures | Protected Area Connectedn ess Index (PARC-  Connectedn ess). | CSIRO | X | N/A |  |  | Y | Y |  |  | N | Y |  |
| Protected Connected (Protconn). | European Commission | X | N/A |  |  | Y | Y |  |  | N | Y |  |
| Ecosystem Intactness Index | WCS | Y | 2020 | N/A | 2010 | Y | N | N | N | N | N |  |
|  |  |
| T2.6. Increased protection and conservation effectiveness | Trend in conservation effectivenes s of protected areas and other area- based | Proportion of KBAs in favourable condition | BirdLife International on behalf of the KBA Partnership | Y | 2025 |  |  | Y | Y | Y | N | N | N |  |
| Species Protection Effectivenes s Index | Yale University Map of Life, NGS | Y | 2021 |  | 2001 –  2020,  annually |  | Y | N | N | N | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | conservation measures | Proportion of assessed marine protected areas that are ecologically effective | Reef Life Survey | Y | 2022 |  | 2014, ~5-  10 years | Y | Y |  |  | N | N |  |
| T2.7. Integration into landscape and seascape context | Policy and governance practices outside of protected areas and OECMs  compatible with their managemen t objectives | Social Assessment of Governance and Equity (SAGE) | IIED | Y | 2021 | N/A |  |  |  |  | N | N | N |  |
| T3.1. Active recovery and conservation management actions | Trend in ex- situ conservation measures | Number of plant genetic resources for food and agriculture secured in medium or long term conservation facilities | FAO | X | N/A | 2019 | 2014-  2019,  annually | Y | Y | Y |  | Y  SDG  indicator 2.5.1.a | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Number of | FAO | X | N/A | 2019 | 2000 - | Y | Y | Y |  | Y  SDG  indicator 2.5.1.b | N |  |
| animal |  |  |  |  | 2019 |  |  |  |  |
| genetic |  |  |  |  |  |  |  |  |  |
| resources for |  |  |  |  |  |  |  |  |  |
| food and |  |  |  |  |  |  |  |  |  |
| agriculture |  |  |  |  |  |  |  |  |  |
| secured in |  |  |  |  |  |  |  |  |  |
| medium or |  |  |  |  |  |  |  |  |  |
| long term |  |  |  |  |  |  |  |  |  |
| conservation |  |  |  |  |  |  |  |  |  |
| facilities |  |  |  |  |  |  |  |  |  |
| Trends in | Proportion of | IUCN | Y | N/A |  |  |  |  |  |  | N | N |  |
| species | species |  |  |  |  |  |
| recovery | requiring |  |  |  |  |  |
| and | intensive |  |  |  |  |  |
| reintroductio | recovery |  |  |  |  |  |
| n | actions to |  |  |  |  |  |
| programmes | avoid |  |  |  |  |  |
|  | extinction |  |  |  |  |  |
|  | that are |  |  |  |  |  |
|  | under active |  |  |  |  |  |
|  | recovery |  |  |  |  |  |
|  | management |  |  |  |  |  |
|  | Number of | IUCN | Y | 2025 |  | Annually | Y | Y | N | N | N | N | N |
|  | species with |  |  |  |  |  |  |  |  |  |  |  |
|  | Green |  |  |  |  |  |  |  |  |  |  |  |
|  | Status |  |  |  |  |  |  |  |  |  |  |  |
|  | (IUCN Red |  |  |  |  |  |  |  |  |  |  |  |
|  | List) |  |  |  |  |  |  |  |  |  |  |  |
|  | assessments |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | of ‘Recovered’ |  |  |  |  |  |  |  |  |  |  |  |  |
| Percentage of threatened species that are improving in status. | IUCN | X | 2024 |  | 1993 | Y | N | N | N | N | N |  |
| Number of certified forest areas under sustainable management with verified impacts on biodiversity conservation | FSC | X | N/A | 2020 | 2018,  every five years | Y | Y | Y | N | N | N | N |
| T3.2. Reduced human-wildlife conflicts | Trend in human- wildlife conflicts | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T4.1. Harvest is legal, sustainable and safe for | Trends in proportion of biological | Red List Index | IUCN /  BirdLife International | X | N/A |  |  | Y | Y | Y |  | Y | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| human health and | resources |  |  |  |  |  |  |  |  |  |  | SDG |  |  |
| biodiversity | harvested | indicator |
|  | legally | 15.5.1 |
|  |  | Living Planet | ZSL | Y | 2020 |  | 1970 – | Y | Y | N | N | N | N | IPBES |
|  |  | Index (LPI) |  |  |  | 2020, |  |  |  |  |  |  | (pending) |
|  |  | for utilised |  |  |  | annually |  |  |  |  |  |  |  |
|  |  | species |  |  |  |  |  |  |  |  |  |  |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | proportion of | determined |
|  | biological |  |
|  | resources |  |
|  | harvested |  |
|  | within the |  |
|  | established |  |
|  | harvest |  |
|  | limits |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | proportion of | determined |
|  | biological |  |
|  | resources |  |
|  | harvested |  |
|  | though |  |
|  | sustainable |  |
|  | harvest |  |
|  | practices |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | measures | determined |
|  | ensuring |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | safe harvesting operations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4.2. Trade is legal, sustainable and safe for human health and biodiversity | Trends in proportion of biological resources traded legally | Progress by countries in the degree of implementati on of international instruments aiming to combat illegal, unreported and unregulated fishing | FAO | X | N/A |  |  | Y |  |  |  | Y  SDG  indicator 14.6.1 | Y |  |
| Trends in proportion of biological resources traded within the established limits/quotas | Red List Index (international ly traded species) | IUCN &  BirdLife International | X |  | 2020 | 1993 –  2020,  annually | Y | Y | N | Y | N | Y | CITES |
| Trends in measures  ensuring | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | safety of trade operations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4.3. Use is legal, sustainable and safe for human health and biodiversity | Trends in proportion of biological resources used legally | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in proportion of biological resources used within the established limits/quotas | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in measures ensuring safe use of biodiversity | Red List Index (trends driven by utilisation) | IUCN &  BirdLife International | X |  | 2020 | 1993 –  2020,  annually | Y | Y | N | Y | N | Y |  |
| Red List Index (trends driven by fisheries) | IUCN &  BirdLife International | X |  | 2020 | 1993 –  2020,  annually | Y | Y | N | Y | N | Y |  |
| T5.1.  Identification, control and | Trends in timely  identification | Trends in the numbers of  invasive | IUCN Species Survival  Commission |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| management of | of pathways | alien species | Invasive |  |  |  |  |  |  |  |  |  |  |  |
| pathways for | for | introduction | Species |
| introduction of | introduction | events. | Specialist |
| invasive alien |  |  | Group |
| species |  |  |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | development | determined |
|  | of control |  |
|  | and |  |
|  | managemen |  |
|  | t measures |  |
|  | for pathways |  |
|  | for |  |
|  | introduction |  |
| T5.2. Effective | Trends and | Species | MOL, Yale | Y | 2020 |  | Annually |  |  |  |  |  |  |  |
| detection, | efficiency of | Status | University, |  |  |  |
| identification, | detection of | Information | GBIF, sTWIST |  |  |  |
| prioritisation and | invasive | Index, alien |  |  |  |  |
| monitoring of | alien | species |  |  |  |  |
| invasive alien | species |  |  |  |  |  |
| species |  |  |  |  |  |  |
| Trends in | Trends in the | tbd - currently | Y | 2020/2021 |  |  |  |  |  |  |  |  |  |
|  | identification | status of | sTWIST |  |  |
|  | of invasive | knowledge | Project in |  |  |
|  | alien | of IAS | collaboration |  |  |
|  | species |  | with ISSG |  |  |
|  | Trends | Species | MOL, Yale | Y | 2020 |  | Annually |  |  |  |  | N | N |  |
|  | monitoring | Status | University, |  |  |  |  |  |
|  | of invasive | Information | GBIF, sTWIST |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | alien species | Index, alien species |  |  |  |  |  |  |  |  |  |  |  |  |
| T5.3. | Trends in | Trends in | IUCN ISSG | X | N/A | 2016 | 1870-2016 | Y | Y | Y |  | N | Y |  |
| Establishment of | the rate of | invasive |  |  |  |  |  |  |  |  |  |  |
| measures for | invasive | alien species |  |  |  |  |  |  |  |  |  |  |
| eradication, | species | vertebrate |  |  |  |  |  |  |  |  |  |  |
| control and | eradication | eradications. |  |  |  |  |  |  |  |  |  |  |
| management of invasive alien species |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in establishing control measures | Legislation for prevention and control  of invasive | IUCN ISSG | X | N/A | 2018 | 1967 –  2016 | Y | Y | Y |  | Y  SDG  indicator 15.8.1 | Y |  |
|  |  | alien species |  |  |  |  |  |  |  |  |  |  |
|  |  | (IAS), |  |  |  |  |  |  |  |  |  |  |
|  |  | encompassi |  |  |  |  |  |  |  |  |  |  |
|  |  | ng “Trends |  |  |  |  |  |  |  |  |  |  |
|  |  | in policy |  |  |  |  |  |  |  |  |  |  |
|  |  | responses, |  |  |  |  |  |  |  |  |  |  |
|  |  | legislation |  |  |  |  |  |  |  |  |  |  |
|  |  | and |  |  |  |  |  |  |  |  |  |  |
|  |  | management |  |  |  |  |  |  |  |  |  |  |
|  |  | plans to |  |  |  |  |  |  |  |  |  |  |
|  |  | control and |  |  |  |  |  |  |  |  |  |  |
|  |  | prevent |  |  |  |  |  |  |  |  |  |  |
|  |  | spread of |  |  |  |  |  |  |  |  |  |  |
|  |  | invasive |  |  |  |  |  |  |  |  |  |  |
|  |  | alien |  |  |  |  |  |  |  |  |  |  |
|  |  | species” and |  |  |  |  |  |  |  |  |  |  |
|  |  | “Proportion |  |  |  |  |  |  |  |  |  |  |
|  |  | of countries |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | adopting relevant national legislation and adequately resourcing the prevention or control of invasive alien species |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in establishing managemen t measures | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T5.4. Eliminated or reduced impacts of IAS | Tends in the impact of invasive alien species | Red List Index (impacts of invasive alien species) | IUCN &  BirdLife International | X |  | 2020 | 1993 –  2020,  annually | Y | Y | N | Y | N | Y |  |
| Trends in spread of species impacts | tbd - currently sTWIST  Project in collaboration with ISSG | Y | 2020/2021 |  |  |  |  |  |  | N | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| T5.5. Eradication, | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| control or | elimination | determined |
| management of | of AIS and |  |
| IAS in priority sites | their impacts |  |
|  | in islands |  |
|  | Trends in | Proportion of | KBA | Y |  |  |  | Y | Y | Y | N | N | N |  |
|  | elimination | Key | Partnership |  |  |  |  |  |  |  |
|  | of AIS and | Biodiversity |  |  |  |  |  |  |  |  |
|  | their impacts | Areas |  |  |  |  |  |  |  |  |
|  | in protected | threatened |  |  |  |  |  |  |  |  |
|  | areas and | by IAS |  |  |  |  |  |  |  |  |
|  | areas with |  |  |  |  |  |  |  |  |  |
|  | other |  |  |  |  |  |  |  |  |  |
|  | effective |  |  |  |  |  |  |  |  |  |
|  | area-based |  |  |  |  |  |  |  |  |  |
|  | conservation |  |  |  |  |  |  |  |  |  |
|  | measures |  |  |  |  |  |  |  |  |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | elimination | determined |
|  | of AIS and |  |
|  | their impacts |  |
|  | in intact / |  |
|  | wilderness |  |
|  | areas |  |
| T6.1. Reduction of | Trends in | Nitrogen | OECD | Y |  | 2020 | 1990- | Y |  | Y | N | N | N |  |
| pollution from | levels of | balances |  |  |  | 2017, |  |  |  |  |  |
| excess nutrients | pollution |  |  |  |  | biannually |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | from nitrogen |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in levels of pollution from phosphorus | Phosphorus balances | OECD | Y |  | 2020 | 1990-  2017,  biannually | Y |  | Y | N | N | N |  |
| T6.2. Reduction of pollution from biocides | Trends in levels of pollution from excess pesticides | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in levels of pollution from excess herbicides | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in levels of pollution from excess other biocides | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Trends in levels of  pollution | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| T6.3. Reduction of pollution from plastic | with marine plastic |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in levels of pollution from plastic in terrestrial and freshwater ecosystems | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T6.4. Reduction of pollution from other sources | Trends in levels of pollution from organic wastes | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in levels of pollution from lead | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in levels of pollution from noise | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in levels of  pollution | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | from artificial light |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in levels of pollution from sediments | Index of Coastal Eutrophicatio n | UNEP / IOC- UNESCO | Y | 2021 |  | Every 5 years |  |  |  |  | Y  SDG  indicator 14.1.1a | N |  |
| Red List Index (impacts of pollution) | IUCN &  BirdLife International | X |  | 2020 | 1993 –  2020,  annually | Y | Y | N | Y | N | Y |  |
| T7.1. Increased biodiversity contribution to climate change mitigation, adaptation and disaster risk reduction | Trends in carbon stocks in different ecosystems | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in contribution to climate change adaptation | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in contribution to disaster risk reduction | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| T7.2. Minimised | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| negative impacts | integration | determined |
| on biodiversity | of |  |
| from any | biodiversity |  |
| mitigation, | consideratio |  |
| adaptation and | n in design |  |
| disaster risk | of mitigation, |  |
| reduction | adaptation |  |
| measures | and disaster |  |
|  | risk |  |
|  | reduction |  |
|  | projects |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | environment | determined |
|  | al impacts |  |
|  | assessment |  |
|  | s of |  |
|  | mitigation, |  |
|  | adaptation |  |
|  | and disaster |  |
|  | risk |  |
|  | reduction |  |
|  | projects |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Invertebrate | Determined |
|  | stocks |  |
| **Meeting people’s needs through sustainable use and benefit-sharing** | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| T8.1. Sustainable  management of  aquatic wild  species of fauna  and flora,  including fisheries | Trends in  fish stocks. | Proportion of  fish stocks  within  biologically  sustainable  levels | FAO  **Indian Ocean Tuna Commission**  **International Whaling Commission** | X | N/A | 2017 | 1974-2017 | N | N | Y |  | Y  SDG  indicator 14.4.1 | N |  |
|  | Large Reef | Reef Life | Y | 2022 | 2016 | 2015, ~5- | Y | Y | Y |  | N | Y |  |
|  | Fish Index | Survey |  |  | (Australia | 10yrs |  |  |  |  |  |
|  |  |  |  |  |  | only) |  |  |  |  |  |  |
|  | Trends in | Proportion of | FAO | X | N/A | 2017 | 1974-2017 | N | N | Y |  | Y  SDG  indicator 14.4.1 | N |  |
|  | sustainable  fisheries  managemen  t | fish stocks |  |  |  |  |  |  |  |  |  |
|  | within |  |  |  |  |  |  |  |  |  |
|  | biologically |  |  |  |  |  |  |  |  |  |
|  | sustainable |  |  |  |  |  |  |  |  |  |
|  | levels |  |  |  |  |  |  |  |  |  |
|  | Red List | IUCN & | X |  | 2020 | 1993 – | Y | Y | N | Y | N | Y |  |
|  | Index | BirdLife |  |  | 2020, |  |  |  |  |  |  |
|  | (impacts of | International |  |  | annually |  |  |  |  |  |  |
|  | fisheries) |  |  |  |  |  |  |  |  |  |  |
|  | Trends in | Red List | BirdLIfe | X |  | 2020 | 1988, | Y | Y | N | N | N | N |  |
|  | population | Index | International |  |  | updated |  |  |  |  |  |  |
|  | and | (albatrosses | and IUCN |  |  | every 4 |  |  |  |  |  |  |
|  | extinction | and large |  |  |  | years |  |  |  |  |  |  |
|  | risk in | petrels) |  |  |  |  |  |  |  |  |  |  |
|  | bycatch |  |  |  |  |  |  |  |  |  |  |  |
|  | species |  |  |  |  |  |  |  |  |  |  |  |
| Living Planet | ZSL/WWF | X | 2021 |  | 1970, | Y | Y | N | N | N | Y |  |
|  |  | Index (LPI) |  |  |  | annually |  |  |  |  |  |  |
|  |  | (trends in |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | target and bycatch species) |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in aquatic plants | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in Invertebrate stocks | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T8.2. Sustainable management of terrestrial wild species of fauna and flora | Trends in terrestrial wild species of fauna used for food and medicine | Red List Index (species used for food and medicine) | IUCN and BirdLife International | X |  | 2020 | 1993 –  2020,  annually | Y | Y | N | Y | N | Y |  |
| Living Planet Index (LPI) for utilised species | ZSL | Y | 2020 |  | 1970 –  2020,  annually | Y | Y | N | N | N | N | IPBES  (pending) |
| Species Habitat Index | MOL, Yale University, NGS | X | N/A | 2020 | 2001-  2018,  annually | Y | Y | Y |  | N | N | IPBES |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | Trends in terrestrial wild species of flora used for food and medicine | Comprehens iveness of conservation of socioecono mically as well as culturally valuable species. | CIAT, Crop Trust | Y |  | 2018 | 2018;  every 3-5 years | Y | Y | Y |  | N | Y |  |
| T9.1. Sustainable | Trends in | Changes in | UNCCD | X | N/A | 2015 | 2000- | Y | Y | Y | N | Y  SDG  sub- indicator 15.3.1 | N | UNCCD |
| management of | area of | land |  |  |  |  | 2015, |  |  |  |  |  |  |
| agricultural | agriculture | productivity |  |  |  |  | annually |  |  |  |  |  |  |
| biodiversity, | under |  |  |  |  |  |  |  |  |  |  |  |  |
| including soil | sustainable |  |  |  |  |  |  |  |  |  |  |  |  |
| biodiversity, | practices |  |  |  |  |  |  |  |  |  |  |  |  |
| cultivated plants and farmed and domesticated animals and of wild relatives |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in soil quality | Changes in SOC stocks | UNCCD | X | N/A | 2015 | 2000-  2015,  annually | Y | Y | Y | N | Y  SDG  sub- indicator | N | UNCCD |
|  |  |  |  |  |  |  |  |  |  |  |  | 15.3.1 |  |  |
|  | Trends in | Red List | IUCN and | X |  | 2020 | 1993 – | Y | Y | N | Y | N | Y |  |
|  | pollinators | Index | BirdLife |  |  | 2020, |  |  |  |  |  |  |
|  |  | (pollinating | International |  |  | updated |  |  |  |  |  |  |
|  |  | species) |  |  |  | periodicall |  |  |  |  |  |  |
|  |  |  |  |  |  | y |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | Trends in | Wild Bird | RSPB & | X |  | 2020 | Annually | Y | Y | Y | Y | N | Y |  |
| extinction | Index | BirdLife |  |  |  |  |  |  |  |  |  |
| risk and | (farmland | International |  |  |  |  |  |  |  |  |  |
| populations | species) |  |  |  |  |  |  |  |  |  |  |
| of agro- |  |  |  |  |  |  |  |  |  |  |  |
| ecosystem |  |  |  |  |  |  |  |  |  |  |  |
| associated |  |  |  |  |  |  |  |  |  |  |  |
| species |  |  |  |  |  |  |  |  |  |  |  |
| Trends in | Comprehens | CIAT, Crop | Y |  | 2018 | 2018; | Y | Y | Y |  | N | Y |  |
| genetic | iveness of | Trust |  |  | every 3-5 |  |  |  |  |  |
| diversity of | conservation |  |  |  | years |  |  |  |  |  |
| cultivated | of |  |  |  |  |  |  |  |  |  |
| plants and of | socioecono |  |  |  |  |  |  |  |  |  |
| wild relatives | mically as |  |  |  |  |  |  |  |  |  |
|  | well as |  |  |  |  |  |  |  |  |  |
|  | culturally |  |  |  |  |  |  |  |  |  |
|  | valuable |  |  |  |  |  |  |  |  |  |
|  | species. |  |  |  |  |  |  |  |  |  |
|  | Number of | FAO | X |  | 2019 | 2014, | Y | Y | Y |  | Y  SDG  indicator 2.5.1.a | Y |  |
|  | plant genetic |  |  |  | 2016-2019 |  |  |  |  |
|  | resources for |  |  |  | annually |  |  |  |  |
|  | food and |  |  |  |  |  |  |  |  |
|  | agriculture |  |  |  |  |  |  |  |  |
|  | secured in |  |  |  |  |  |  |  |  |
|  | medium or |  |  |  |  |  |  |  |  |
|  | long term |  |  |  |  |  |  |  |  |
|  | conservation |  |  |  |  |  |  |  |  |
|  | facilities |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | Trends in | Farmland | ICRAF | Y | 2021 |  | Sub- | Y | Y |  |  |  | N |  |
| genetic | Biodiversity |  |  |  | annually |  |  | (applicati |
| diversity of | Score |  |  |  |  |  |  | on |
| domesticate | (Trends in |  |  |  |  |  |  | pending) |
| d animals | farmland |  |  |  |  |  |  |  |
| and of wild | biodiversity |  |  |  |  |  |  |  |
| relatives | and |  |  |  |  |  |  |  |
|  | sustainability |  |  |  |  |  |  |  |
|  | of |  |  |  |  |  |  |  |
|  | agricultural |  |  |  |  |  |  |  |
|  | land) |  |  |  |  |  |  |  |
|  | Number of | FAO | X |  | 2019 | 1980 - | Y | Y | Y |  | Y  SDG  indicator 2.5.1a | Y |  |
|  | animal |  |  |  | 2020 |  |  |  |  |
|  | genetic |  |  |  |  |  |  |  |  |
|  | resources for |  |  |  |  |  |  |  |  |
|  | food and |  |  |  |  |  |  |  |  |
|  | agriculture |  |  |  |  |  |  |  |  |
|  | secured in |  |  |  |  |  |  |  |  |
|  | medium or |  |  |  |  |  |  |  |  |
|  | long term |  |  |  |  |  |  |  |  |
|  | conservation |  |  |  |  |  |  |  |  |
|  | facilities |  |  |  |  |  |  |  |  |
|  | Proportion of | FAO | X |  | 2019 | 1980 - | Y | Y | Y |  | Y  SDG  indicator 2.5.2 | Y |  |
|  | local breeds |  |  |  | 2020 |  |  |  |  |
|  | classified as |  |  |  |  |  |  |  |  |
|  | being at risk |  |  |  |  |  |  |  |  |
|  | of extinction |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| T9.2. Sustainable management of aquaculture | Trends in production of aquaculture under sustainable practices | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T9.3. Sustainable management of all types of forests | Trends in proportion of area of forests under sustainable practices | Progress towards sustainable forest management | FAO | X |  | 2020 | 2000 -  2018 | Y | Y | Y | Y | Y  SDG  indicator 15.2.1 | Y |  |
| T10.1. Regulation of air quality | Trends in extent and quality of natural ecosystems | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T10.2. Regulation of hazards and extreme events | Trends in extent and quality of natural ecosystems | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T10.3. Regulation of freshwater | Trends in extent and quality of | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| quantity, quality, location and timing | natural ecosystems |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T11.1. Access to green/blue spaces | Trends in access to green/blue spaces | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T11.2.  Contributions of biodiversity to human health and well-being | Trends in species that provide essential services | Red List Index (pollinating species) | IUCN and BirdLife International | X |  | 2020 | 1993 –  2020,  updated periodicall y | Y | Y | N | Y | N | Y |  |
| Species Habitat Index | MOL, Yale University, NGS | X | N/A | 2020 | 2001-  2018,  annually | Y | Y | Y |  | N | N | IPBES |
| Trends in contributions to human health and well-being from forest ecosystems | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in contributions to human health and well-being  from dry and | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | sub-humid |  |  |  |  |  |  |  |  |  |  |  |  |  |
| lands |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| contributions | determined |
| to human |  |
| health and |  |
| well-being |  |
| from |  |
| grasslands |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| contributions | determined |
| to human |  |
| health and |  |
| well-being |  |
| from other |  |
| terrestrial |  |
| ecosystems |  |
| Trends in | Ocean | NCEAS | X | N/A | 2019 | 2012- | Y | Y | Y |  | N | Y |  |
| contributions | Health Index |  |  |  |  | 2019, |  |  |  |  |  |
| to human |  |  |  |  |  | annually |  |  |  |  |  |
| health and |  |  |  |  |  |  |  |  |  |  |  |
| well-being |  |  |  |  |  |  |  |  |  |  |  |
| from |  |  |  |  |  |  |  |  |  |  |  |
| mangroves |  |  |  |  |  |  |  |  |  |  |  |
| Trends in | Ocean | NCEAS | X | N/A | 2019 |  | Y | Y | Y |  | N | Y |  |
| contributions | Health Index |  |  |  |  |  |  |  |  |  |
| to human |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | health and |  |  |  |  |  | 2012- |  |  |  |  |  |  |  |
| well-being | 2019, |
| from coral | annually |
| reefs |  |
| Cover of key | Global Coral | Y | 2022 |  | 1980s/199 | Y | Y | Y |  | N | N |  |
|  | benthic | Reef |  |  | 0s |  |  |  |  |  |
|  | groups | Monitoring |  |  |  |  |  |  |  |  |
|  |  | Network |  |  |  |  |  |  |  |  |
|  | Structural | WCS | Y | N/A | N/A | N/A | Y | Y | Y | N | N | N |  |
|  | Complexity |  |  |  |  |  |  |  |  |  |  |  |
|  | Carbonate | University of | Y | N/A | N/A | N/A | Y | Y | Y | N | N | N |  |
|  | budgets | Exeter |  |  |  |  |  |  |  |  |  |  |
|  | Large Reef | Reef Life | Y | 2022 | 2016 | 2015, ~5- | Y | Y | Y |  | N | Y |  |
|  | Fish Index | Survey |  |  | (Australia | 10yrs |  |  |  |  |  |
|  |  |  |  |  | only) |  |  |  |  |  |  |
| Trends in | Ocean | NCEAS | X | N/A | 2019 | 2012- | Y | Y | Y |  | N | Y |  |
| contributions | Health Index |  |  |  |  | 2019, |  |  |  |  |  |
| to human |  |  |  |  |  | annually |  |  |  |  |  |
| health and |  |  |  |  |  |  |  |  |  |  |  |
| well-being |  |  |  |  |  |  |  |  |  |  |  |
| from |  |  |  |  |  |  |  |  |  |  |  |
| seagrass |  |  |  |  |  |  |  |  |  |  |  |
| ecosystems |  |  |  |  |  |  |  |  |  |  |  |
| Trends in | Ocean | NCEAS | X | N/A | 2019 | 2012- | Y | Y | Y |  | N | Y |  |
| contributions | Health Index |  |  |  |  | 2019, |  |  |  |  |  |
| to human |  |  |  |  |  | annually |  |  |  |  |  |
| health and |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | well-being from other marine and coastal ecosystems |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in contributions to human health and well-being from wetlands | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T12.1. Access to genetic resources | Trends in access to genetic resources | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T12.2. Benefit shared from the use of genetic resources | Trends in the benefits from the access to genetic resources shared | Number of countries that have adopted legislative, administrativ e and policy frameworks to ensure fair and  equitable | Secretariat of the CBD | Y | N/A | 2018 | 2016-2018 | Y | Y | Y |  | Y  SDG  indicator 15.6.1 | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | sharing of benefits |  |  |  |  |  |  |  |  |  |  |  |  |
| T12.3. Benefits resulting from use of traditional knowledge associated with genetic resources | Trends in use of traditional knowledge associated with genetic resources | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in benefits generated and shared from the use of traditional knowledge associated with genetic resources | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tools and solutions for implementation and mainstreaming** | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| T13.1. Biodiversity | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| reflected in | integration | determined |
| planning at all | of |  |
| levels | biodiversity |  |
|  | and |  |
|  | ecosystem |  |
|  | service |  |
|  | values into |  |
|  | planning |  |
|  | processes |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | integration | determined |
|  | of |  |
|  | biodiversity |  |
|  | and |  |
|  | ecosystem |  |
|  | service |  |
|  | values into |  |
|  | development |  |
|  | processes |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | integration | determined |
|  | of |  |
|  | biodiversity |  |
|  | and |  |
|  | ecosystem |  |
|  | service |  |
|  | values into |  |
|  | poverty |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | reduction |  |  |  |  |  |  |  |  |  |  |  |  |  |
| strategies |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| integration | determined |
| of |  |
| biodiversity |  |
| and |  |
| ecosystem |  |
| service |  |
| values into |  |
| sectoral |  |
| plans |  |
| T13.2. Biodiversity | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| reflected in | integration | determined |
| national and other | of |  |
| accounts | biodiversity |  |
|  | and |  |
|  | ecosystem |  |
|  | service |  |
|  | values into |  |
|  | national |  |
|  | accounts |  |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | integration | determined |
|  | of |  |
|  | biodiversity |  |
|  | and |  |
|  | ecosystem |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | service values into other accounts |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T13.3. Biodiversity values are reflected in policies and regulations, including on biodiversity inclusive environmental impact assessments and strategic environmental assessments | Trends in the number of policies and regulations which incorporate biodiversity consideratio ns | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in the number of policies and regulations on environment al impact assessment which incorporate biodiversity consideratio ns | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | Trends in the number of policies and regulations requiring the use of strategic environment al impact assessment which incorporate biodiversity consideratio ns | To be determined |  |  |  |  |  |  |  |  |  |  |  | IPBES |
| T14.1. Reduction of at least [50%] in negative impacts on biodiversity | Trends in ecological limits reached or surpassed | Ecological Footprint | Global Footprint Network | X | N/A | 2016 | 1961-2016 | Y | Y | Y |  | N | Y |  |
| Human Appropriatio n of Net Primary Production (HANPP) | Institute of Social Ecology (SEC),  University of Natural Resources and Life Sciences, Vienna | X | N/A | 2005 | 1960-2005 | Y |  |  |  | N | Y |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Domestic | UNEP | X | N/A | 2017 | 1970, | Y | Y | Y |  | Y  SDG  indicator 12.2.2 | N |  |
| material | (OECD, |  |  |  | 2017 |  |  |  |  |
| consumption | Eurostat) |  |  |  |  |  |  |  |  |
| , domestic |  |  |  |  |  |  |  |  |  |
| material |  |  |  |  |  |  |  |  |  |
| consumption |  |  |  |  |  |  |  |  |  |
| per capita, |  |  |  |  |  |  |  |  |  |
| and material |  |  |  |  |  |  |  |  |  |
| consumption |  |  |  |  |  |  |  |  |  |
| per GDP |  |  |  |  |  |  |  |  |  |
| T14.2. Sustainable production practices, including circular economy and waste management | Trends in sustainable production in sectors | Number of countries with sustainable consumption and production (SCP)  national action plans or SCP mainstreame d as a priority or target into national policies | UNEP | X | N/A | 2018 | 2018,  every 2 years | Y | Y | N |  | Y  SDG  indicator 12.1.1 | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Number of | Marine | X | N/A | 2019 | 2000-2019 | Y |  | Y |  | N | Y |  |
| MSC Chain | Stewardship |  |  |  |  |  |  |  |  |
| of Custody | Council |  |  |  |  |  |  |  |  |
| Certification |  |  |  |  |  |  |  |  |  |
| holders by |  |  |  |  |  |  |  |  |  |
| distribution |  |  |  |  |  |  |  |  |  |
| country |  |  |  |  |  |  |  |  |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| the | determined |
| application |  |
| of circular |  |
| economy |  |
| principles |  |
| and |  |
| practices |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| waste | determined |
| managemen |  |
| t |  |
| T14.3. Sustainable | Trends in | Area of | Forest Stewardship Council (FSC)  Programme for the Endorsement of Forest | X | N/A | PEFC: | 1995-  2017;  PEFC: 1999-  2010:  annually 2011-2020 | Y | Y | Y | Y | N | Y |  |
| supply chains at | certification | forest under |  |  | 2020 |  |  |  |  |  |  |
| national and | of supply | sustainable |  |  |  |  |  |  |  |  |  |
| international levels | chains | management |  |  |  |  |  |  |  |  |  |
|  |  | : total FSC |  |  |  |  |  |  |  |  |  |
|  |  | and PEFC |  |  |  |  |  |  |  |  |  |
|  |  | forest |  |  |  |  |  |  |  |  |  |
|  |  | management |  |  |  |  |  |  |  |  |  |
|  |  | certification |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  |  | Certification |  |  |  | quarterly |  |  |  |  |  |  |  |
| (PEFC) |  |
| MSC | Marine | X | N/A | 2019 |  | Y |  | Y |  | N | Y |  |
| Certified | Stewardship |  |  |  |  |  |  |  |
| Catch | Council |  |  |  |  |  |  |  |
| Trends in a | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| proportion of | determined |
| supply |  |
| chains which |  |
| are legal |  |
| and |  |
| sustainable |  |
| T15.1. Sustainable consumption patterns | Trends in use of non- renewable natural resources | Material extraction and consumption (fossil energy, metals, non- metallic minerals) | UNEP (OECD,  Eurostat) | X |  |  |  |  |  |  |  | N | N |  |
|  | Trends in use of renewable | Food loss index and food waste index | FAO | X | N/A | 2019 | 2019,  annually | N | N | Y |  | Y  SDG  indicator 12.3.1a | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | natural | Food waste | UNEP | X | N/A | 2020 | 2020, | Y | Y | Y |  | Y | N |  |
| resources | index |  |  |  |  | biennially |  |  |  | SDG |  |
|  |  |  |  |  |  |  |  |  |  | indicator |  |
|  |  |  |  |  |  |  |  |  |  | 12.3.1b |  |
|  | Material | UNEP | X |  |  |  |  |  |  |  | N | N |  |
|  | extraction | (OECD, |  |  |  |
|  | and | Eurostat) |  |  |  |
|  | consumption |  |  |  |  |
|  | (biomass for |  |  |  |  |
|  | food and |  |  |  |  |
|  | feed, wood |  |  |  |  |
|  | biomass) |  |  |  |  |
|  | Level of | FAO | X | N/A | 2017 | 2000 – | N | N | N |  | Y  SDG  indicator 6.4.2 | N |  |
|  | water stress: |  |  |  |  | 2017, |  |  |  |  |
|  | freshwater |  |  |  |  | annually |  |  |  |  |
|  | withdrawal |  |  |  |  |  |  |  |  |  |
|  | as a |  |  |  |  |  |  |  |  |  |
|  | proportion of |  |  |  |  |  |  |  |  |  |
|  | available |  |  |  |  |  |  |  |  |  |
|  | freshwater |  |  |  |  |  |  |  |  |  |
|  | resources |  |  |  |  |  |  |  |  |  |
| Trends in | Living Planet | ZSL/WWF | Y | 2020 |  | 1970, | Y | Y | N | N | N | N | IPBES |
| use of | Index (LPI) |  |  |  | annually |  |  |  |  |  |  | (pending) |
| biological | for utilised |  |  |  |  |  |  |  |  |  |  |  |
| resources | species |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Material | UNEP | X |  |  |  |  |  |  |  |  |  |  |
| extraction | (OECD, |  |
| and | Eurostat) |  |
| consumption |  |  |
| (biomass for |  |  |
| food and |  |  |
| feed, wood |  |  |
| biomass) |  |  |
| Trends in | Ecological | Global | X | N/A | 2016 | 1961-2016 | Y | Y | Y |  | N | Y |  |
| ecological | Footprint | Footprint |  |  |  |  |  |  |  |  |  |
| limits |  | Network |  |  |  |  |  |  |  |  |  |
| reached or surpassed |  |  |  |  |  |  |  |  |  |  |  |
| HANPP | Institute of  Social | X | N/A | 2005 | 1960 –  2005 | Y | Y | Y |  | N | Y |  |
|  |  | Ecology |  |  |  |  |  |  |  |  |  |
|  |  | (SEC), |  |  |  |  |  |  |  |  |  |
|  |  | University of |  |  |  |  |  |  |  |  |  |
|  |  | Natural |  |  |  |  |  |  |  |  |  |
|  |  | Resources |  |  |  |  |  |  |  |  |  |
|  |  | and Life |  |  |  |  |  |  |  |  |  |
|  |  | Sciences |  |  |  |  |  |  |  |  |  |
|  | Domestic | UNEP | X | N/A | 2017 | 1970 - | Y | N | N |  | Y | N |  |
|  | material consumption | (OECD,  Eurostat) |  |  |  | 2017 |  |  |  | SDG  indicator |  |
|  |  |  |  |  |  |  |  |  |  | 12.2.2 |  |
| T15.2. New vision | Trends in | Biodiversity | UEBT | X | N/A | 2018 | 2009 – | Y | N | Y |  | N | Y |  |
| of good quality of | public | Barometer |  |  |  |  | 2018 |  |  |  |  |  |
| life based on | engagement |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| sustainability and new social norms for sustainability | and attitudes towards biodiversity | Biodiversity Engagement Indicator | Conservation International | X | N/A | 2018 | 2017-2018 | Y | Y |  |  | N | Y |  |
| T15.3. Peoples’ responsibility for their choices | Trends in demand for more environment ally friendly products | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T16.1. Measures to prevent potential adverse impacts of biotechnology on biodiversity and human health | Trends in measures to prevent potential adverse impacts of biotechnolog y | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T16.2. Measures to manage adverse impacts of biotechnology on biodiversity and human health | Trends in measures to manage adverse impacts of biotechnolog y | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T16.3. Measures to control adverse impacts of  biotechnology on | Trends in measures to control  adverse | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| biodiversity and human health | impacts of biotechnolog y |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T17.1. Increase in | Trends in | Number of | OECD | X | N/A | 2020 | 1980- | Y | Y | Y | N | Y  SDG  indicator 15.a.1 | Y |  |
| positive public and | development | countries |  |  |  |  | 2020, |  |  |  |  |  |
| private economic | and | with |  |  |  |  | annually |  |  |  |  |  |
| and regulatory | application | biodiversity- |  |  |  |  |  |  |  |  |  |  |
| incentives | of public | relevant |  |  |  |  |  |  |  |  |  |  |
|  | incentives | taxes (and # |  |  |  |  |  |  |  |  |  |  |
|  | that promote | of |  |  |  |  |  |  |  |  |  |  |
|  | biodiversity | instruments) |  |  |  |  |  |  |  |  |  |  |
|  | conservation and sustainable use |  |  |  |  |  |  |  |  |  |  |  |
| Number of countries with biodiversity-  relevant | OECD | X | N/A | 2020 | 1980-  2020,  annually | Y | Y | Y | N | Y  SDG  indicator 15.a.1 | Y |  |
|  |  | charges and |  |  |  |  |  |  |  |  |  |  |  |
|  |  | fees (and # |  |  |  |  |  |  |  |  |  |  |  |
|  |  | of |  |  |  |  |  |  |  |  |  |  |  |
|  |  | instruments) |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Number of | OECD | X | N/A | 2020 | 1980- | Y | Y | Y | N | N | Y |  |
|  |  | countries |  |  |  |  | 2020, |  |  |  |  |  |  |
|  |  | with |  |  |  |  | annually |  |  |  |  |  |  |
|  |  | biodiversity- |  |  |  |  |  |  |  |  |  |  |  |
|  |  | relevant |  |  |  |  |  |  |  |  |  |  |  |
|  |  | tradable |  |  |  |  |  |  |  |  |  |  |  |
|  |  | permit |  |  |  |  |  |  |  |  |  |  |  |
|  |  | schemes |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | (and # of |  |  |  |  |  |  |  |  |  |  |  |  |
| instruments) |
| Number of | OECD | Y | 2020, | 2020 | 1980-2020 | Y | Y | Y |  | N | N |  |
| countries |  |  | covering |  |  |  |  |  |  |  |
| (and number |  |  | 1980-2020 |  |  |  |  |  |  |  |
| of |  |  |  |  |  |  |  |  |  |  |
| instruments) |  |  |  |  |  |  |  |  |  |  |
| with |  |  |  |  |  |  |  |  |  |  |
| biodiversity |  |  |  |  |  |  |  |  |  |  |
| offset |  |  |  |  |  |  |  |  |  |  |
| programmes |  |  |  |  |  |  |  |  |  |  |
| Number of | OECD | Y | 2020, | 2020 | 1980-2020 | Y | Y | Y |  | N | N |  |
| countries |  |  | covering |  |  |  |  |  |  |  |
| (and number |  |  | 1980-2020 |  |  |  |  |  |  |  |
| of |  |  |  |  |  |  |  |  |  |  |
| instruments) |  |  |  |  |  |  |  |  |  |  |
| with |  |  |  |  |  |  |  |  |  |  |
| payments for |  |  |  |  |  |  |  |  |  |  |
| ecosystem |  |  |  |  |  |  |  |  |  |  |
| services |  |  |  |  |  |  |  |  |  |  |
| (PES) |  |  |  |  |  |  |  |  |  |  |
| programmes |  |  |  |  |  |  |  |  |  |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| development | determined |
| and |  |
| application |  |
| of private |  |
| incentives |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | that promote biodiversity conservation and sustainable use |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T17.2. Decrease in subsidies the most harmful to biodiversity | Trends in the number of subsidies, harmful to biodiversity | Trends in potentially environment ally harmful elements of government support to agriculture (producer support estimate) | OECD | X | N/A |  | 1990-  2019 | Y |  |  |  | N | Y |  |
| Trends in potentially environment ally harmful government support to fisheries (fisheries support estimate) | OECD | Y | 2021 | N/A | 2008-  2020,  annually | Y | Y | N | N | N | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | Trends in the | OECD, IEA | X | N/A | 2020, | 2010 – | Y | N | Y |  | N | N |  |
| number and |  |  |  |  | 2020, |  |  |  |  |  |
| value of |  |  |  |  | annually |  |  |  |  |  |
| government |  |  |  |  |  |  |  |  |  |  |
| fossil fuel |  |  |  |  |  |  |  |  |  |  |
| support |  |  |  |  |  |  |  |  |  |  |
| measures |  |  |  |  |  |  |  |  |  |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| the value of | determined |
| subsidies |  |
| harmful to |  |
| biodiversity |  |
| T18.1. | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| Identification of | the number | determined |
| funding needs to | of countries |  |
| meet ambition of | which have |  |
| the goals and | assessed |  |
| targets of the | funding |  |
| Framework | needs |  |
| T18.2. Increase in | Trends in | Official | OECD | X | N/A | 2020 | 2002- | Y | Y | Y |  | N | Y |  |
| financial resources | the | development |  |  |  |  | 2018, |  |  |  |  |  |
| from international | mobilization | assistance |  |  |  |  | annually |  |  |  |  |  |
| sources | financial | for |  |  |  |  |  |  |  |  |  |  |
|  | resources | biodiversity |  |  |  |  |  |  |  |  |  |  |
|  | from public |  |  |  |  |  |  |  |  |  |  |  |
|  | international |  |  |  |  |  |  |  |  |  |  |  |
|  | financial |  |  |  |  |  |  |  |  |  |  |  |
|  | flows |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| the | determined |
| mobilization |  |
| of financial |  |
| resources |  |
| from private |  |
| sector |  |
| Trends in | Biodiversity- | OECD | Y |  | 2018 | 2017-2018 | N | N | Y |  | N | N |  |
| the | related |  |  |  |  |  |  |  |  |  |
| mobilization | philanthropic |  |  |  |  |  |  |  |  |  |
| of financial | funding |  |  |  |  |  |  |  |  |  |
| resources |  |  |  |  |  |  |  |  |  |  |
| from |  |  |  |  |  |  |  |  |  |  |
| charitable |  |  |  |  |  |  |  |  |  |  |
| organisation |  |  |  |  |  |  |  |  |  |  |
| s |  |  |  |  |  |  |  |  |  |  |
| T18.3. Increase in | Trends in | Government | OECD | Y |  |  |  |  |  |  |  | N | N |  |
| financial resources | public | expenditure | (Eurostat) |  |  |  |
| from domestic | domestic | on |  |  |  |  |
| sources | resource | biodiversity |  |  |  |  |
|  | mobilization | protection |  |  |  |  |
|  |  | Revenue | OECD | X |  |  |  |  |  |  |  | N | N |  |
|  |  | from |  |  |  |  |
|  |  | biodiversity- |  |  |  |  |
|  |  | related |  |  |  |  |
|  |  | economic |  |  |  |  |
|  |  | instruments |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | Trends in the mobilization of financial resources from private sector | Business expenditure on biodiversity protection | OECD  (Eurostat) | Y |  |  |  |  |  |  |  | N | N |  |
| Trends in the mobilization of financial resources from charitable organisation s | Biodiversity- related philanthropic funding | OECD | Y |  | 2018 | 2017-2018 | N | N | Y |  | N | N |  |
| T18.4.  Implementation of the strategy for capacity -building | Trends in support to capacity building | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in capacity building activities | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T18.5.  Implementation of the strategy for | Trends in technology transfer | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| technology | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| transfer and | scientific | determined |
| scientific | cooperation |  |
| cooperation |  |  |
| T19.1. Availability | Trends in | Growth in | GBIF | X | N/A | 2017 | 2008 - | Y | Y | N |  | N | Y |  |
| of reliable and up- | the available | Species |  |  |  |  | 2017 |  |  |  |  |  |
| to-date | of | Occurrence |  |  |  |  |  |  |  |  |  |  |
| biodiversity related | biodiversity | Records |  |  |  |  |  |  |  |  |  |  |
| information | related | Accessible |  |  |  |  |  |  |  |  |  |  |
|  | information | Through |  |  |  |  |  |  |  |  |  |  |
|  |  | GBIF |  |  |  |  |  |  |  |  |  |  |
|  |  | Species | MOL, Yale | X | N/A | 2020 | 1950 - | Y | Y | Y | N | N | IPBES |  |
|  |  | Status | University, |  |  |  | 2019, |  |  |  |  |  |  |
|  |  | Information | GBIF |  |  |  | annually |  |  |  |  |  |  |
|  |  | Index |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Growth in | ZSL/WWF | X |  | 2020 | 2012, | Y | Y | N | N | N | N |  |
|  |  | number of |  |  |  | annually |  |  |  |  |  |  |
|  |  | records and |  |  |  |  |  |  |  |  |  |  |
|  |  | species in |  |  |  |  |  |  |  |  |  |  |
|  |  | the Living |  |  |  |  |  |  |  |  |  |  |
|  |  | Planet Index |  |  |  |  |  |  |  |  |  |  |
|  |  | database |  |  |  |  |  |  |  |  |  |  |
|  |  | (LPD) |  |  |  |  |  |  |  |  |  |  |
| T19.2. Promotion | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| of awareness of | awareness | determined |
| values of | of |  |
| biodiversity |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | biodiversity values |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T19.3. Promotion of biodiversity in education | Trends in the integration of biodiversity into academic curricula | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T19.4. Availability of research and knowledge, including traditional knowledge, innovations and practices of indigenous peoples and local communities with their free, prior and informed consent | Trends in the development of biodiversity related knowledge | The number of countries in which comprehensi ve national KBA  Assessment s have been updated using the KBA Global Standard | KBA  Partnership | Y | 2022 |  | Annually |  | Y | Y | N | N | N |  |
| The percentage of taxonomic classes and ecosystem  types for | KBA  Partnership | Y | 2022 |  | Annually | Y | Y | Y | N | N | N |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  |  | which |  |  |  |  |  |  |  |  |  |  |  |  |
| comprehensi |
| ve national |
| KBA |
| assessments |
| have been |
| made |
| Number of | IUCN | X |  | 2019 | Annually | Y | Y | N | N | N | Y |  |
| assessments |  |  |  |  |  |  |  |  |  |  |
| on the IUCN |  |  |  |  |  |  |  |  |  |  |
| Red List of |  |  |  |  |  |  |  |  |  |  |
| threatened |  |  |  |  |  |  |  |  |  |  |
| species |  |  |  |  |  |  |  |  |  |  |
| Taxonomic | MOL, Yale | Y | 2021 |  | Annually | Y | Y | Y | N | N | N |  |
| and | University |  |  |  |  |  |  |  |  |  |
| functional |  |  |  |  |  |  |  |  |  |  |
| coverage of |  |  |  |  |  |  |  |  |  |  |
| species in |  |  |  |  |  |  |  |  |  |  |
| SPI and SHI |  |  |  |  |  |  |  |  |  |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| access to | determined |
| biodiversity |  |
| related |  |
| knowledge |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| documentati | determined |
| on and use |  |
| of traditional |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
|  | knowledge, innovations and practices with their free, prior and informed consent |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T20.1. Equitable participation of IPLCs in decision- making related to biodiversity and rights over relevant resources | Trends in the participation of indigenous peoples and local communities in decision making | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| Trends in the recognition of rights over relevant resources | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |
| T20.2. Equitable participation of women and girls in | Trends in the participation | To be determined |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **Components of the Target** | **Monitoring Elements** | **Indicators** | **Responsible Institution** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g.**  **2019)** | **Time series and frequency of updates (e.g. 1985-**  **2019,**  **annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO4 (Y/N)** | **SDG**  **indicator (Y/N)** | **BIP**  **Indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar, IPBES, CMS)** |
| decision-making | of women |  |  |  |  |  |  |  |  |  |  |  |  |  |
| related to | and girls in |
| biodiversity and | decision |
| rights over | making |
| relevant resources |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | the | determined |
|  | recognition |  |
|  | of rights |  |
|  | over |  |
|  | relevant |  |
|  | resources |  |
| T20.3. Equitable | Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
| participation of | the | determined |
| youth in decision- | participation |  |
| making related to | of youth in |  |
| biodiversity and | decision |  |
| rights over | making |  |
| relevant resources |  |  |
| Trends in | To be |  |  |  |  |  |  |  |  |  |  |  |  |
|  | the | determined |
|  | recognition |  |
|  | of rights |  |
|  | over |  |
|  | relevant |  |
|  | resources |  |