

**Annex 4: List of indicators in the ENR sector and their sources**

| SN | Indicator                                                                                                                                                                                                                       | SDG | AU 2063 | EAC 2050 | NST 2 | SSP | Type of Sources | Data source                                                        | Frequency | Responsible Institution |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|----------|-------|-----|-----------------|--------------------------------------------------------------------|-----------|-------------------------|
| 1  | Proportion of total adult population with secure tenure rights to land, with legally recognized documentation and who perceive their rights to land as secure, by sex and by type of tenure                                     | 1   | 0       | 0        | 0     | 0   | Administrative  | Land Administration Information System (LAIS)                      | Annual    | RNRA                    |
| 2  | Proportion of bodies of water with good ambient water quality                                                                                                                                                                   | 1   | 0       | 0        | 0     | 0   | Administrative  | Water Quality Monitoring in Rwanda I, II & III                     | Annual    | RWB                     |
| 3  | Change in water-use efficiency over time                                                                                                                                                                                        | 1   | 0       | 0        | 0     | 0   | Administrative  | MININFRA Records                                                   | Annual    | MININFRA                |
| 4  | Level of water stress: freshwater withdrawal as a proportion of available freshwater resources                                                                                                                                  | 1   | 0       | 0        | 0     | 0   | Administrative  | MININFRA Records                                                   | Annual    | MININFRA                |
| 5  | Degree of integrated water resources management implementation (0-100)                                                                                                                                                          | 1   | 0       | 0        | 0     | 0   | Administrative  | Records of MINIREMA; Consistency analysis for IWRM; pilot survey   | Annual    | RWB                     |
| 6  | Proportion of transboundary basin area with an operational arrangement for water cooperation                                                                                                                                    | 1   | 0       | 0        | 0     | 0   | Administrative  | Nile Basin Initiative; Congo Basin                                 | Annual    | MoE                     |
| 7  | Change in the extent of water-related ecosystems over time                                                                                                                                                                      | 1   | 0       | 0        | 0     | 0   | Administrative  | Rwanda State of the environment Report                             | Annual    | RWFA                    |
| 8  | CO2 emission per unit of value added                                                                                                                                                                                            | 1   | 0       | 0        | 1     | 0   | Administrative  | (TNC) report on Climate Change                                     | Annual    | MoE                     |
| 9  | Ratio of land consumption rate to population growth rate.                                                                                                                                                                       | 1   | 0       | 0        | 0     | 0   | Administrative  | Admin                                                              | Annual    | RNRA                    |
| 10 | Annual mean levels of fine particulate matter in cities                                                                                                                                                                         | 1   | 0       | 0        | 0     | 0   | Administrative  | MoE Reports                                                        | Annual    | MoE                     |
| 11 | Number of parties to international multilateral environmental agreements on hazardous waste, and other chemicals that meet their commitments and obligations in transmitting information as required by each relevant agreement | 1   | 0       | 0        | 0     | 0   | Administrative  | MoE Reports                                                        | Annual    | MoE                     |
| 12 | Progress by countries in the degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing                                                                                 | 1   | 0       | 0        | 0     | 0   | Administrative  | MINAGRI                                                            | Annual    | MINAGRI                 |
| 13 | Progress by countries in the degree of application of a legal/regulatory/policy/institutional framework which recognizes and protects access rights for small-scale fisheries                                                   | 1   | 0       | 0        | 0     | 0   | Administrative  | MINAGRI/RAB Records                                                | Annual    | MINAGRI, RAB            |
| 14 | Forest coverage of total surface areas                                                                                                                                                                                          | 1   | 0       | 0        | 1     | 1   | Administrative  | Records of MINRENA, Rwanda State of Environment and outlook Report | Annual    | MoE                     |
| 15 | Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type                                                                                                | 1   | 0       | 0        | 0     | 0   | Administrative  | National Biodiversity Strategies and Action Plans (NBSAPs)         | Annual    | MoE                     |
| 16 | Progress towards sustainable forest management                                                                                                                                                                                  | 1   | 0       | 0        | 0     | 0   | Administrative  | District forest management plan; Forest management strata          | Annual    | RWFA                    |
| 17 | Proportion of land that is degraded over total land area                                                                                                                                                                        | 1   | 0       | 0        | 0     | 0   | Administrative  | RNRA Reports                                                       | Annual    | RNRA                    |
| 18 | Coverage by protected areas of important sites for mountain biodiversity                                                                                                                                                        | 1   | 0       | 0        | 0     | 0   | Administrative  | RNRA Reports                                                       | Annual    | RNRA                    |
| 19 | Proportion of waste recycled                                                                                                                                                                                                    | 0   | 1       | 0        | 0     | 0   | Administrative  | Adm/Specific survey                                                | Annual    | REMA                    |
| 20 | % Of agricultural land placed under sustainable land management practice                                                                                                                                                        | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                              | Annually  | REMA                    |
| 21 | a) % of terrestrial and inland water areas preserved; b) % of coastal and marine areas preserved                                                                                                                                | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                              | Annually  | RLMU                    |
| 22 | Proportion of national parks and protected areas managed on the basis of master and national plan                                                                                                                               | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                              | Annually  | RDB                     |
| 23 | % Of water demand satisfaction                                                                                                                                                                                                  | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                              | Annually  | RWB                     |
| 24 | % in water productivity used in rain-fed agriculture and irrigation                                                                                                                                                             | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                              | Annually  | RWB                     |
| 25 | % Of rainwater harvested for productive use                                                                                                                                                                                     | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                              | Annually  | RWB                     |
| 26 | % Of farmers, pastoralist and fisher folks practicing climate resilient production systems                                                                                                                                      | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                              | Annually  | REMA                    |

NATIONAL STRATEGY FOR THE DEVELOPMENT OF STATISTICS

| SN | Indicator                                                                                                                    | SDG | AU 2063 | EAC 2050 | NST 2 | SSP | Type of Sources | Data source                                            | Frequency | Responsible Institution |
|----|------------------------------------------------------------------------------------------------------------------------------|-----|---------|----------|-------|-----|-----------------|--------------------------------------------------------|-----------|-------------------------|
| 27 | Levels of emissions arising from agriculture bio-diversity loss, land use and deforestation                                  | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                  | Annually  | RAB                     |
| 28 | Number of Cities meeting the WHO's Ambient Air Quality Standards (AAQS)                                                      | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                  | Annually  | REMA                    |
| 29 | The level of satisfaction of local authorities on the share of the exploitation of natural resources for the benefit of all. | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                  | Annually  | RGB                     |
|    | The proportion of revenue generated from exploitation of natural resources retained in the local communities.                | 0   | 1       | 0        | 0     | 0   | Administrative  | Admin                                                  | Annually  | RGB                     |
| 30 | Value of mineral exports per annum                                                                                           | 0   | 0       | 0        | 1     | 0   | Administrative  | RMB Reports                                            | Annually  | RMPGB                   |
| 31 | % Of public forest plantation allocated to private operators                                                                 | 0   | 0       | 0        | 1     | 0   | Administrative  | RWFA reports                                           | Annually  | RWFA                    |
| 32 | Number of ha of land under agro forestry                                                                                     | 0   | 0       | 0        | 0     | 1   | Administrative  | RWFA report /Ground survey                             | Annually  | RWFA                    |
| 33 | % of public forest plantations allocated to private women and men operators                                                  | 0   | 0       | 0        | 0     | 1   | Administrative  | RWFA report/Contracts/ MoU                             | Annually  | RWFA                    |
| 34 | Number of ha of small natural forests under participatory management                                                         | 0   | 0       | 0        | 0     | 1   | Administrative  | RWFA reports /MoUs                                     | Annually  | RWFA                    |
| 35 | % Of improved seeds provided to women and men farmers                                                                        | 0   | 0       | 0        | 0     | 1   | Administrative  | RWFA reports                                           | Annually  | RWFA                    |
| 36 | % Of charcoal produced by certified "green charcoal" of women and men's companies and cooperatives                           | 0   | 0       | 0        | 0     | 1   | Administrative  | MINILAF and RWFA reports                               | Annually  | MoE                     |
| 37 | Number of Ha of degraded forests rehabilitated                                                                               | 0   | 0       | 0        | 0     | 1   | Administrative  | RWFA reports                                           | Annually  | RWFA                    |
| 38 | Renewable water resources availability per capita per annum (m3/capita/annum                                                 | 0   | 0       | 0        | 0     | 1   | Administrative  | WRM reports                                            | Annually  | RWB                     |
| 39 | % Of catchments with management committees Task Forces of women and men                                                      | 0   | 0       | 0        | 0     | 1   | Administrative  | WRM reports                                            | Annually  | WRM                     |
| 40 | Number of shared basins/catchments with cooperation frameworks                                                               | 0   | 0       | 0        | 0     | 1   | Administrative  | WRM reports                                            | Annually  | WRM                     |
| 41 | Percentage of implementation of approved catchment management plans                                                          | 0   | 0       | 0        | 0     | 1   | Administrative  | WRM reports                                            | Annually  | WRM                     |
| 42 | Percentage of degraded areas in 4 priority catchments rehabilitated                                                          | 0   | 0       | 0        | 0     | 1   | Administrative  | Reports from WRMD/REMA/ MINAGRI/ FONERWA and Districts | Annually  | REMA, MINAGRI, FONERWA  |
| 43 | Percentage of water bodies with ambient water quality                                                                        | 0   | 0       | 0        | 0     | 1   | Administrative  | WRM/ REMA/ WASAC reports                               | Annually  | RWB                     |
| 44 | Percentage of Floods control investment measures implemented                                                                 | 0   | 0       | 0        | 0     | 1   | Administrative  | WRM reports                                            | Annually  | RWB                     |
| 45 | % Of women and men water users with water permits                                                                            | 0   | 0       | 0        | 0     | 1   | Administrative  | WRM reports                                            | Annually  | RWB                     |
| 46 | Artificial water storage per capita                                                                                          | 0   | 0       | 0        | 0     | 1   | Administrative  | WRM reports                                            | Annually  | RWB                     |
| 48 | Number of Sector and district land plans (Cumulatively) integrated into a paperless Land register                            | 0   | 0       | 0        | 0     | 1   | Administrative  | LAIS                                                   | Annually  | RNRA                    |
| 49 | % Of Land use plan harmonized with NLUDMP                                                                                    | 0   | 0       | 0        | 0     | 1   | Administrative  | DLUP, LUDP, CoK harmonized                             | Annually  | DLUP                    |
| 50 | Number of administrative entities with annual reference prices and market value integrated                                   | 0   | 0       | 0        | 0     | 1   | Administrative  | LAIS                                                   | Annually  | RNRA                    |
| 51 | % Of compliance of land use development plans to the NLUDMP                                                                  | 0   | 0       | 0        | 0     | 1   | Administrative  | Assessment report on district land use master plan     | Annually  | RNRA                    |
| 52 | % Of agriculture and premium land protected                                                                                  | 0   | 0       | 0        | 0     | 1   | Administrative  | Assessment report on district land use master plan     | Annually  | RNRA, Districts         |
| 53 | % Of increased coverage in surveying and mapping                                                                             | 0   | 0       | 0        | 0     | 1   | Administrative  | CORS Rwanda geo net platform                           | Annually  | CORS Rwanda             |
| 54 | % Of National Spatial Data Infrastructure established and operational                                                        | 0   | 0       | 0        | 0     | 1   | Administrative  | NSDI platform in place                                 | Annually  | NSDI                    |

NATIONAL STRATEGY FOR THE DEVELOPMENT OF STATISTICS

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|----|-----------------------------------------------------------------------------------------------------------------------------------------|-----|---------|----------|-------|-----|-----------------|-------------------------------------------------------------------|-----------------------------------|-------------------------|
| 55 | Number of weather and climate products and services produced and disseminated by type of channel                                        | 0   | 0       | 0        | 0     | 1   | Administrative  | QMS Audit report                                                  | Annually                          | QMS                     |
| 56 | % Of occurred extreme weather events for which advance warning was provided at least 30 min in advance                                  | 0   | 0       | 0        | 0     | 1   | Administrative  | Feedback for various platforms and internal forecast verification | Annually                          | METEO RWANDA, RNRA      |
| 57 | % Of polled women and men users of weather & climate information from Mateo Rwanda who are satisfied or very satisfied with the service | 0   | 0       | 0        | 0     | 1   | Administrative  |                                                                   | Annual sector Satisfaction report | METEO RWANDA, RNRA      |
| 58 | % Of demand of Mateo Rwanda weather data by channels                                                                                    | 0   | 0       | 0        | 0     | 1   | Administrative  | Climate Data requests served                                      | Annually                          | METEO RWANDA, RNRA      |
| 59 | % Of forecasts by level of accuracy                                                                                                     | 0   | 0       | 0        | 0     | 1   | Administrative  | Forecast verification report                                      | Annually                          | METEO RWANDA, RNRA      |
| 60 | Number of sectors with approved SEA monitored                                                                                           | 0   | 0       | 0        | 0     | 1   | Administrative  | Annual monitoring reports                                         | Annually                          | MoE                     |
| 61 | % Of approved EIA and EA certified projects in compliance (75% or above) with EIAs, EAs Studies and Conditions of approval              | 0   | 0       | 0        | 0     | 1   | Administrative  | REMA reports                                                      | Annually                          | REMA                    |
| 62 | % Of hazardous/toxic waste safely managed                                                                                               | 0   | 0       | 0        | 0     | 1   | Administrative  | REMA reports                                                      | Annually                          | REMA                    |
| 63 | Number of circular economy initiatives supported                                                                                        | 0   | 0       | 0        | 0     | 1   | Administrative  | REMA, FONERWA, MoE Reports                                        | Annually                          | REMA                    |
| 64 | % Of air quality monitoring stations with Good, Moderate, Unhealthy Air Quality Index                                                   | 0   | 0       | 0        | 0     | 1   | Administrative  | Station readings; REMA reports                                    | Annually                          | REMA                    |
| 65 | Number of degraded wetlands ecosystems rehabilitated (fully protected wetlands and complex wetlands)                                    | 0   | 0       | 0        | 0     | 1   | Administrative  | REMA and RWFA reports                                             | Annually                          | REMA                    |
| 66 | % Of Nationally Determined Contributions (NDC) programmatic targets achieved                                                            | 0   | 0       | 0        | 0     | 1   | Administrative  | NDC monitoring report                                             | Annually                          | NDC                     |
| 67 | Volume of Finance Mobilized (in USD Millions)                                                                                           | 0   | 0       | 0        | 0     | 1   | Administrative  | Financing agreements                                              | Annually                          | MoE                     |
| 68 | Increased knowledge of the available minerals, petroleum and gas in the country                                                         | 0   | 0       | 0        | 0     | 1   | Administrative  | RMPGB reports                                                     | Annually                          | RMPGB                   |
| 69 | Value of Annual contributions of mining sector to export revenues in USD (\$).                                                          | 0   | 0       | 0        | 0     | 1   | Administrative  | RMPGB Reports                                                     | Annually                          | RMPGB                   |
| 70 | Level of grade for exported Minerals.                                                                                                   | 0   | 0       | 0        | 0     | 1   | Administrative  | RMPGB Reports and grade reports of exported minerals              | Annually                          | RMPGB                   |
| 71 | Number of mines complying with environmental and modernized practices                                                                   | 0   | 0       | 0        | 0     | 1   | Administrative  | RMPGB and REMA Reports                                            | Annually                          | RMPGB                   |