

Workshop on Environment Statistics for the EAC Region Arusha 23-28 October

Rwanda Presentation

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Presentation Outline

- ➤ Results of the project:
 - Data production
 - Coordination
 - Development of the National Action Plans
- ➤ Main challenges faced and how they were overcome
- Evaluation of the project
- Future work in environment statistics



- Population and Housing Census, Household Living Conditions Survey (EICV), Seasonal Agricultural Surveys, Agricultural and Livestock Census, Sector Statistics, State of Environment (SoE) report and Rwanda Demographic Health Survey (RDHS).
- ▶ The NISR produces thematic reports on Environment and Natural Resources based on the results of the Rwanda Integrated Household Living Conditions Surveys (EICV 3 & 4).
- The reports focus on the areas of human settlement and the environment, energy and water resources, land management and environment related problems.



Source of National Data

No	Acronym	Full name
1.	ACNR	Association pour la Conservation de la Nature au Rwanda
2.	ARCOS	Albertine Rift Conservation Society
3.	KARISOKE	Research Center for mountain gorillas and other species in Volcanoes National Park
4.	Kigali City	
5.	MIDIMAR	Ministry of Disaster Management and Refugee Affairs
6.	MINALOC	Ministry of Local Government
7.	MINEACOM	Ministry of Trade, Industry and EAC Affairs
8.	MINECOFIN	Ministry of Finance and Economic Planning
9.	MININFRA	Ministry of Infrastructure
10.	MINIRENA	Ministry of Natural Resources
11.	MINISANTE	Ministry of Health
12.	MYICT	Ministry of Youth and ICT
13.	NAEB	National Agricultural Export Development Board
14.	NIRDA	National Industrial Research and Development Agency
15.	NISR	National Institute of Statistics of Rwanda
16.	PSF/Agriculture	Private Sector Federation – Chamber of Agriculture
17.	PSF/Commerce	Private Sector Federation – Chamber of Commerce
18.	PSF/Industries	Private Sector Federation – Chamber of Industries
19.	RAB	Rwanda Agriculture Board
20.	RBC	Rwanda Biomedical Center
21.	REG	Rwanda Energy Group
22.	REMA	Rwanda Environment Management Authority
23.	RHA	Rwanda Housing Authority
24.	RMA	Rwanda Meteorology Agency
25.	RNP	Rwanda National Police
26.	RFWA	Rwanda Forest and Water Authority
27.	WASAC	Water and Sanitation Corporation
28.	WCS	Wildlife Conservation Society



- World Population Prospects, 2017 (UN, Population Division) - Official United Nations population estimates and projections
- World Development Indicators (WDI) Statistics about global development and the quality of people's lives.
- Global Forest Resources Assessment, FAO, Forest
 Department provide a consistent approach to describing the world's forests and how they are changing.
- Energy Statistics Yearbook a comprehensive collection of international energy



- ▶ International Union for Conservation of Nature (IUCN), Species Survival Commission (SSC) provide information on biodiversity conservation, the inherent value of species, their role in ecosystem health and functioning, the provision of ecosystem services, and their support to human livelihoods.
- The United Nations Environment Programme World Conservation Monitoring Centre (UNEP-WCMC) provide authoritative information about biodiversity and ecosystem services in a way that is useful to decision makers who are driving change in environment and development policy.



- UNSD/UNEP Questionnaires on Environment Statistics
 contains tables under the headings Water and Waste.
- ▶ Food and Agriculture Organization of the United Nations (FAO-AQUASTAT) time series of statistics for water resources including precipitation, internal and external renewable water resources and exploitable water resources and dam capacity; and water use including water withdrawal by sector and source, wastewater and pressure on water resources.
- Carbon Dioxide Information Analysis Center (CDIAC) estimates of carbon dioxide emissions from fossil-fuel consumption and land-use changes...



- UNSD Environment Statistics and Indicators precipitation, actual evapotranspiration, internal flow, inflow of surface water and ground water from neighboring countries...
- OECD database freshwater, freshwater abstractions, wastewater treatment, lake and river quality...
- Eurostat Water Statistics main tables and database water resources long-term annual average, fresh water abstraction by source, fresh water abstraction by source per capita, water abstracted by sector or use, water productivity, population connected to public water supply, water use from public water supply and from self-supply...



Coordination

- The coordination is done by National Institute of Statistics of Rwanda in collaboration with Rwanda Environment Management Authority
- ▶ They are supervised by Ministry of Environment



National Action Plans

- ▶ The National Action Plan in regards of FDES was developed.
- It contains:
 - Introduction to the FDES
 - Objective of the National Action Plan (NAP)
 - Environmental Statistics in Rwanda
 - Challenges of Environmental Statistics in Rwanda
 - Situational analysis of Environment Statistics in Rwanda using ESSAT tool
 - The Way Forward in Environmental Statistics
 - Strategic Pillars for Development of Environment Statistics
 - National Plan for development of environment statistics

Conclusion



Challenges Faced & Some Solutions

- 1. Limited capacity to develop the NAP and to collect data
 - ➤ UNSD hired a consultant to support the team
- 2. Insufficient expertise to get special data for ESSAT
 - Some information was collected and a lot remained unavailable.
- 3. Conflict between FDES assignment with routine daily duties and insufficient time for compiling the required information
 - Ministry of Environment was recently created (Aug 2017)
- 4. Limited internet connection at home
 - Some modems were purchased but not for all
- 5. Limited number of staff in Environment statistics
 - ➤ Looking for the Management to recruit more staff



Evaluation of the Project

- Rwanda prioritized 45.8% FDES indicators of which 40.4% component 1, 54.8% component 2, 53.45% component 3, 51.61% component 4, 50% component 5 and 28.57% component 6.
- This core set of prioritized indicators is worth guiding as an important tool for domestication of Sustainable Development Goals in Rwanda,
- Analysis shows that <u>FDES</u> indicators are 45% reflected in <u>SDGs</u>, 27.7% reflected in <u>RBM&E</u> and 27.2% reflected in EDPRS II.



Evaluation of the Project

Additional information were collected like:

- Distribution (%) of households by type of drinking water source, according to urban/rural, province, consumption quintile and sex of head of household (EICV4, EICV3)
- Distribution (%) of households by main mode of waste management, according to urban/rural, province and sex of head of household (EICV4, EICV3)
- Percentage (%) of crop-producing households with any plot protected by erosion, irrigated, affected by land consolidation, and crops added and removed due to regionalization, according to urban/rural, province and sex of head of household (EICV4, EICV3)

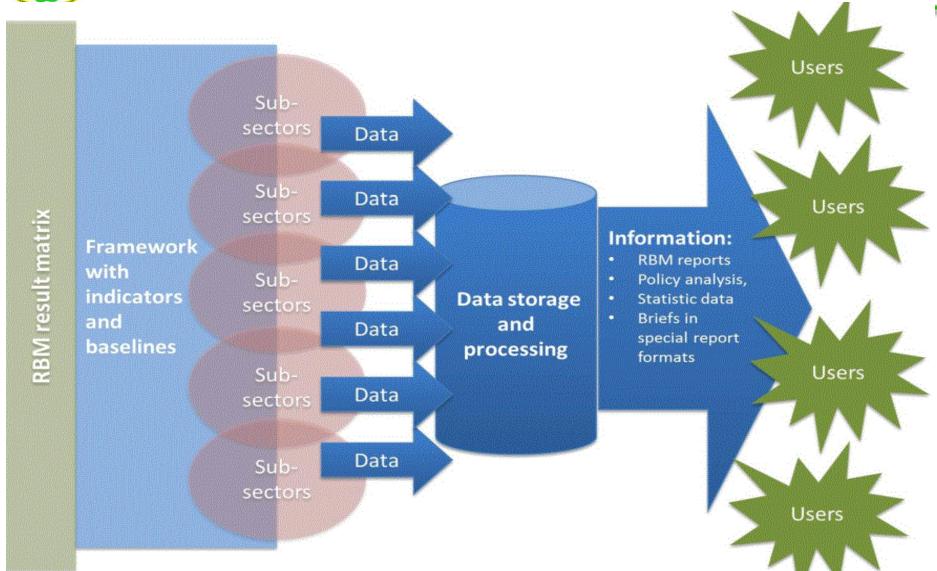


Future works - RBM&E

- Results Based Monitoring & Evaluation (RBM&E) a modern management strategy which compels actors in an institutional context to direct their efforts towards achieving a common set of results, is being implemented in MoE.
- ▶ RBM&E will help in storing all environment related data
- Fill the Questionnaires (Continue) of
 - WATER and WASTE
 - Climate change



Integration of ENR system into RBM&E





Strength and Opportunity

- Existence of National Guidelines (Vision 2050, EDPRS II, 7YGP, SSP...)
- Existence of Ministry in charge of Environment
- Existence of National Bureau of Statistics
- Existence of Natural Capital Accounting Project

