

Workshop Focussing on Statistics for Electrical and Electronic Waste

Dodoma, Tanzania

26 - 28 November 2018



Background and Rationale

The digital age has brought many advantages in service delivery efficiency; nevertheless, the rising consumption of electrical and electronic equipment (EEE), unfortunately coupled with increasingly rapid obsolescence due to technological advances and decreasing product lifetimes has led to significant increases in the global levels of e-waste. The issue of e-waste is covered by the Sustainable Development Goals (SDGs), where there is a sub-indicator under target 12.4.2 on hazardous waste. Therefore, it is important to track the progress of gathering e-waste data as part of the 2030 Agenda for Sustainable Development.

To date, only 41 countries produce e-waste statistics. This workshop was performed by the Global E-waste Statistics Partnership (GESP) and is aimed to follow up with two selected countries. The selected countries were Tanzania and Jordan. The former was already present in the e-waste statistics workshop which took place in Arusha, in November 2017. Both countries have expressed interest to the United Nations University (UNU), to more closely follow up on developing e-waste statistics respectfully, at the national level. Since the national implementation of e-waste statistics in countries outside the European Union and the OECD is limited, the workshop was a first step in showcasing the development of national e-waste statistics.

Opening Remarks

The workshop was organized in conjunction with the Tanzanian National Statistical Office (Department of Environmental Statistics).

Representatives from various authorities were present: statisticians from the National Statistical Offices (NSOs), Ministries, Dar es Salaam City Council, the National Environment Management Council and from several other institutions (please refer to the list of participants for the complete list).

The workshop was presented by Kees Balde' (balde@vie.unu.edu), Senior Programme Officer and Vanessa Forti (forti@vie.unu.edu), Programme Associate in UNU-ViE-SCYCLE.

Workshop Purpose, Objectives and Expected Outcomes

The purpose of the workshop was to strengthen the capacity of two NSOs to assist them in the compilation of internationally comparable e-waste statistics. Prior to setting the objectives and outcomes of this project, an inventory was made with the countries, and the expected outcomes were formulated. All the expected results have been achieved successfully during the three-day workshop. The audience demonstrated to be very interested in the subject, proactive and willing to build on the knowledge gained during the workshop.

Achieved outcomes:

- i. Enhanced capacity in the countries to compile e-waste statistics
- ii. Train the people that will in turn train other statisticians and policy makers and inform relevant stakeholders in the near future
- iii. Use the country data on imports and exports of electrical and electronic equipment (EEE) to calculate the sales of EEE in the country
- iv. Convert the country data on imports and exports of EEE (available in HS codes into the 54 UNU-KEYS and into the six categories of e-waste in the EU (EU-6)).
- v. Harmonize the country data on import and exports for easy usage of the e-waste toolkit (e.g. convert the number of pieces into weight)
- vi. Use the E-waste tool to calculate the e-waste generated in the country. The outcomes represent a relevant base for policy making.
- vii. Increase the skills of human resources to carry out national e-waste inventories and develop pilot questionnaires to collect data in the country
- viii. Receive feedbacks on clarifications/improvements to the current e-waste tool and e-waste manual from UNU
- ix. Definition of a national e-waste statistics implementation plan

Project Approach

The guidelines on e-waste statistics from UNU, and UNU's developed e-waste tools were used as a starting point to improve the statistics of e-waste in Tanzania.

The workshop focused on statistics of:

- New EEE and used EEE put on the market
- E-waste generated
- The environmentally sound management of e-waste (formal collection)
- Other e-waste recycling
- Imports and exports of e-waste

For the 54 UNU keys or the EU-6 categories.

The participants were trained in the three-day workshop. At the end of the workshop, the effectiveness was evaluated, and action items were identified for future years. All the presented material was made available to the participants to be used for other follow-up activities.

Challenges in the Country

- 1) Absence of e-waste management law
- 2) Absence of treatment facilities or of a structured waste management system
- 3) Current inadequacy of e-waste statistics to quantify the problem of e-waste in the country
- 4) Low level of awareness on the impact of e-waste on the health and environment, and on how to dispose it.

Actions to be taken in the short term

- 1) Advocate for policy and law on e-waste management
- 2) Design household survey questionnaires to capture waste and specifically e-waste
- 3) Promote formalization of recycling sites and disposal area
- 4) Promote sorting of waste
- 5) Strengthen institution capacity on e-waste management
- 6) Strengthen the mechanism of e-waste data flow within and outside the country
- 7) Enhance collection of e-waste statistics at household and institutional levels through household and institutional surveys
- 8) Design a Memorandum of Understanding between the national bureau of statistics and regulators
- 9) Raise awareness on the impacts of e-waste on the environment and human health

Appendix One – Workshop Agenda

Day 1:

9:00 – 10:00 Opening of the meeting, introduction of the participants and trainers, and setting the objectives of the workshop

Session 1: General introduction of e-waste statistics

10:00 – 10:30 General introduction into e-waste, relation with SDGs and global context (*UNU*)

10:30 – 11:00 Coffee Break

11:00 - 11:30 General principles of e-waste statistics (*UNU*)

Session 2: E-waste statistics in the country / country

11:30 – 12:00 Presentation about national e-waste statistics/general waste statistics (NSO)

For example: waste data collection (if relevant for the trainers), e-waste statistics, national classification of e-waste, etc.

12:00 – 12:30 Open discussion on what are the efforts made so far to address the e-waste issue in the Country/region

12:30 – 13:30 Lunch break

Session 3: Sales, e-waste generated

13:30 – 14:00 How to track sales of EEE and how to measure e-waste generated (UNU)

14:00 – 16:45

Group work: availability of e-waste related country data (Sales, Stocks, Possession rates, Lifetimes) & how to get data.

Work on the calculation of the sales, which can be later inserted in the e-waste tool and define action points for the day after and the implementation plan

16:45 -17:00 Wrap up Day 1

Day 2:

9:00 – 9:15 Summary of day 1

Session 4: E-waste Collected and recycled

9:15 – 9:45 How to measure e-waste collected and recycled (UNU)

9:45 – 10:30 Group work: availability of country data (e-waste collected) & how to get data (from formal and informal sector) → *define action points for the day after and the future*

10:30 – 11:00 Coffee break

Session 5: E-waste imports and exports

11:00 – 11:30 How to measure imports/exports of e-waste (UNU)

11:30 – 12:00 Outcomes of projects about illegal imports of e-waste (UNU)

12:00 – 12:30 Group work: availability of country data (import/exports) & how to get data → *define action points for the day after and the future*

12:30 – 13:30 Lunch break

Session 6: E-waste tool

13:30 – 14:00 Introduction to the e-waste tool (UNU)

14:00 – 16:45 Group work “hands on the tool”: *How to insert the calculated POM data into the tool and how to insert Nigerian Lifespan data into the tool*

16:45 -17:00 wrap up Day 2

Day 3:

9:30 – 9:15 Summary of day 2

Session 7: E-waste tool – National data

9:15 -10:30 group work on how to design a new e-waste questionnaire

10:30 – 11:00 Coffee break

11:00 – 12:00 Group work on national implementation plan of e-waste statistics

12:00 – 12:30 Presentation of Tanzanian implementation plan of e-waste statistics

12:30 – 12:45 Wrap – up and closure of workshop

12:45 – 13:30 Lunch break

---- End of workshop ----

Appendix Two - List of Participants

S.no	Name	Organization
1	Ndalu Youbert Amos	National Environment Management Council
2	Faraja G. Ngerageza	Division of Environment, Vice President Office
3	Enezaeli Seth Ayo	Dar es Salaam City Council
4	Dr. Simon Mwansasu	Institute of Resource Assessment
5	Diana John Kimbute	Water Resources, Ministry of Water and Irrigation
6	Mr. Jafari Chobo	Tanzania Meteorological Agency
7	Dr. Anesi Satoki Mahenge	Ardhi University
8	Jackson Ezekiel Birore	Ministry of Mineral
9	Ruth Minja	National Bureau of Statistics
10	Deogratius Malamsha	National Bureau of Statistics
11	Pius Kaskana	National Bureau of Statistics
12	Moris Mulilo	National Bureau of Statistics
13	John Lyakurwa	National Bureau of Statistics
14	Hashim Njowe	National Bureau of Statistics
15	Deogratius Malamsha	National Bureau of Statistics