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Sustainable Cycles Programme

E-waste statistics Summary of countries' experience

April, 2018 – E-waste statistics workshop - Zanzibar

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Programme

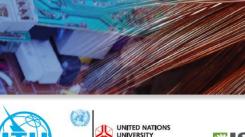




- Outcomes of UNU's November E-waste Statistics training in Arusha as part of UN Statistical Division Environment Statistics Workshop
- From the Global E-waste Monitor

The Global E-waste Monitor 2017

Quantities, Flows, and Resources Authored by Baldé, C. P., Forti, V., Gray, V., Kuehr, R., Stegmann, P.









Main challenges in the African and Arab region



- Lack of public awareness
- Government policy and legislation
 - No e-waste specific legislation
 - No translation of Basel Convention
 - Some countries with effective take-back/collection system and EPR system
- Dominance of informal sector collectors and recyclers (uncontrolled, ill-equipped) lack of modern/adequate recycling facilities
 - Severe pollution of the environment + exposure of labourers and populations to hazardous chemicals
 - Poor efficiencies in recovery of precious components
 - Illicit labour + lack of proper means & equipment
- Lack of financing of hazardous waste management activities.

Best practices in the Arab region



- Increased concerns/interest from Governments in adopting comprehensive and integrated approaches to solving the e-waste problem.
- Advisory, technical, and financial support from UN agencies, development agencies, national governments, private sector, and the alliance of OEMs in Africa.
 - Partnership between the government of Egypt and the Sustainable Recycling Industries (SRI)
 - Partnership between the governments of Egypt and Italy and UNDP.
 - Creation of a facility in UAE serving as the region's largest centre of expertise for e-waste management in the Middle East.
- Interest by private business outfits to establish modern recycling plants

East African Community Workshop with United Nations Statistical Division





E-waste policies and legislations



- Legislation on e-waste in place
 - Implemented: Rwanda, Uganda
 - Draft: Kenya
 - Not specific to e-waste: Burundi, Tanzania, South Soudan
- Informal sector
 - Well established (Burundi, Rwanda) and even licensed (Kenya)
 - Not well established (Tanzania, Uganda, South Sudan)

E-waste Statistics



- Yes, there is data !
- But not yet official statistics
- Research of government researchers and local universities, internet service providers
- Extracted from Revenue Authority's data (Kenya, Tanzania, Uganda)
- Interview of formal and informal retail stores (Rwanda)
- Estimates from data of import (South Sudan)
- Estimates on total e-waste volumes (Kenya, Rwanda)
- Data on collection & recycling of e-waste only in Rwanda

Statistics on Imports and exports of e-waste



- Measuring import and export of e-waste
 - Only few countries in the region collect/measure such data
 - Data collected by UNEP and UNU (Kenya); E-waste Inventory Report (Rwanda)
- Data on illegal intercepted e-waste
 - No country surveyed in the region collect such data

Biggest challenges



E-waste statistics

- Lack of structured system responsible for handling e-waste
- Lack of e-waste policy and legislation.
- Lack of technical/financial capacity
- New actions to improve e-waste statistics
 - Establish/develop policy and legislation on e-waste.
 - Technical capacity building / collaboration with statistics centres (UNU)
 - Identify indicators for E-waste statistics, baseline survey
 - Mobilize financial means
 - Awareness raising (advocacy programme)
 - Establishment of e-waste collection centres
 - Clear description and division of tasks among authorities





- A growing demand for ICT especially by government: One laptop per child, telemedicine, e-education, eagriculture, computers, mobile phones, television...
- A survey of Nov 2014 Jan 2015 focused on 15 major EEE in Rwanda: PCs, PC printers, Mobile phones, Copying machines, Refrigerators, Air conditioners, Televisions, Washing machines, Car batteries, Dry cell batteries, Stabilizers, Electric cooking, stoves, Electric water heating systems, Fluorescent lamps and Radios
- The survey revealed that there is an annual growth in the importation of EEE to Rwanda of about 5.95% (between 2010 and 2014).
- The survey indicated that Rwanda has an e-waste annual generation potential of 9,7417 tons of which 7,677tons (81.52%) will be contributed by individuals, 597tons (6.34%) by private institutions and 1,143tons (12.14%) by public institutions.





Collection and Recycling of E-Waste

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 E-waste dismantling facility in Bugesera Industrial Park is the second of its kind in Africa, and so advanced that it can recycle 7,000 tons per year.







Collection and Recycling of E-Waste



- 160 tons of E-waste have been collected and transported to the ewaste dismantling.
- Precious metals such as gold, copper, and silver, along with other electronic components, are being extracted, recycled and sold to be made into other valuable items





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1. Background Information

- Causes and Drivers of e Waste in Tanzania
- Rapid growth of IT sector eg. the percentage of households having a mobile phone
 doubled from 25 % in 2007 HBS to 57% in 2011/12 HBS
 - government decision to remove all taxes and duties on importation of computers and its peripherals... increase in importation of used e-products
 - flexibility on regulations for establishment of media and telecommunication companies - increase in use and production of e-products



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2. Compilation of E-Waste Statistics

- There is no coordinated system for e waste statistics compilation in Tanzania;
- Some Estimates from different sources:-
 - Crude estimates by VPO 18,000-33,000 tonnes of e waste are generated annually
 - E waste generated from computers was between 3,000-9,500 tonnes in 2015 (*survey (2011) conducted in Tanzania by Magashi11*)
 - Estimates by VPO, Global average growth rate is 4-5% but in Tanzania is high as 33%





- Low levels of awareness on the dangers associated with e-waste,
- Informal repair and refurbishment of electronic and electrical equipment



3. E-Waste Management - Legislation

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- Tanzania has **no specific e-waste management legislation**.
- E-waste is managed through the solid waste and hazardous
 regulations prescribed under the Environmental Management
 Act (2004).
 - Part VIII of the Environmental Management (Hazardous Waste
 Control) regulations, 2009 of the Environmental Management Act
 (2004) addresses the issue of electrical and electronic waste.



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Thank you for your attention!