

# Public Private Partnership for Sustainable E-waste Management – Case of Rwanda

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# PRESENTATION OUTLINE

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**Identification Key Stakeholders**

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# Company Overview

- Registered in Rwanda in 2017. In partnership with the GoR, we operate a state of art and Environmentally friendly e-waste dismantling and recycling facility located in Bugesera, Rwanda, first of it's kind in East Africa
- Subsidiary of Enviroserve Dubai ,an ISO and OSHA certified with over 15 years of experience in E-waste management
- Pioneered sustainable e-waste dismantling and recycling in East Africa
- Collected and recycled more than 3000 tons of e-waste including more than 300 tons of solar e-waste over two years
- Donated more than 1000 refurbished computers to schools in the first year of operation

# Key steps for establishing a sustainable e-waste management system in Rwanda

- ▶ **Step 1:** Identify key stakeholders ( Both Public and private sector)
- ▶ **Step 2 :** Conduct a detailed inventory/survey to assess the quantities generated and e-waste management status in the country
- ▶ **Step 3 :** Put in place the policy and legal framework for e-waste management
- ▶ **Step 4 :** Set up environmental friendly infrastructure for e-waste management (Public Private Partnership)
- ▶ **Step 5:** Conduct an awareness campaign on the impact of proper management of e-waste and dangers associated with poor handling of e-waste
- ▶ **Step 6 :** Connect the established infrastructure to the national and international partners for environmental sound end processing of residues and effective recovery of valuable materials.

## EEE bulk users

Districts  
Individuals  
National governments  
Banks  
Schools (including schools with the One-laptop-per-child program and TVET schools)  
NGOs  
Development partners  
Big companies ( MTN, TIGO, AIRTEL, etc)  
Universities

## EEE handlers

EEE retail shops  
Auto shops/garages  
EEE recycle shops/facilities  
Waste collectors  
EEE repairs ( informal)

## Entities for E-waste recycling

Scrap Metal smelters  
Plastic waste recycling companies, Aluminium smelting

## Regulatory Authority

RURA  
REMA  
Ministries ( MoE, MINICOM, MYICT, etc)

## Producers & Distributors

DELL  
SAMSUNG  
NOKIA  
HP  
SONY  
TECHNO  
KONKA  
ACER  
COMPUTER POINT

# E-waste Inventory ....

A country wide E-waste inventory conducted and data available

EEE annual importation

Around 6,000t to 10,000t per year (2010–2014)  
Annual increase: 5.95% (2010–2014)

EEE annual retail sale

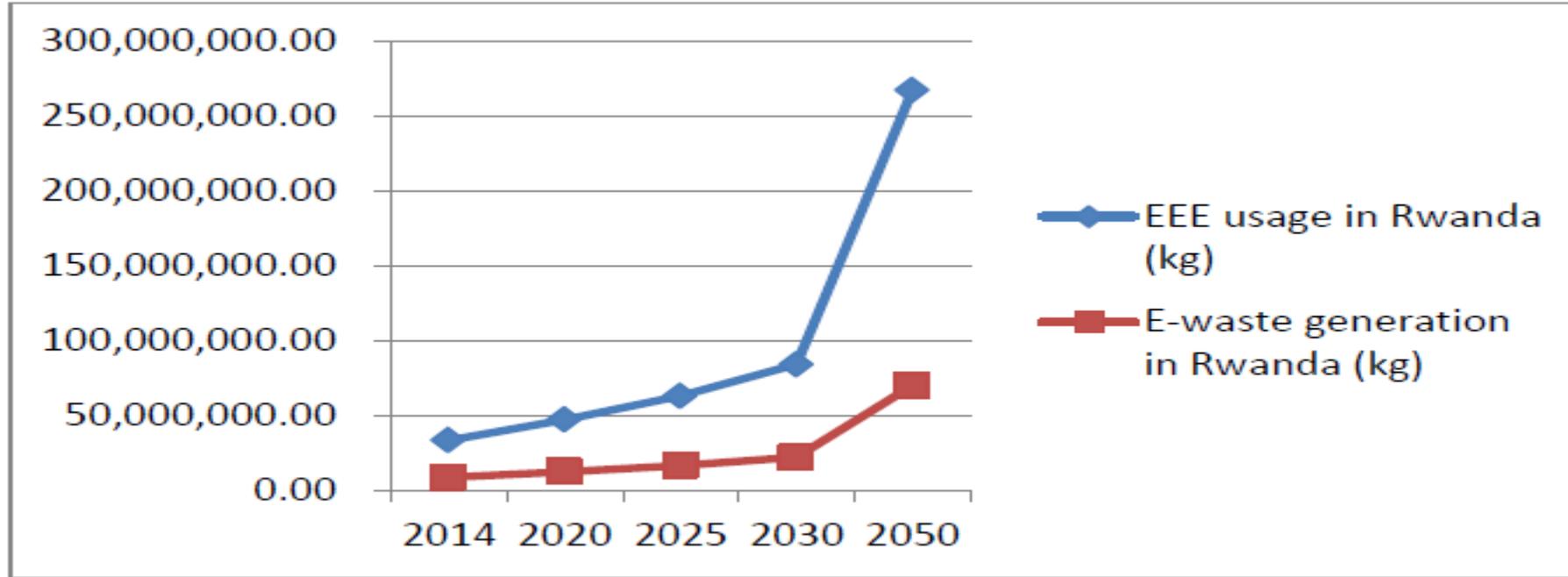
to Individuals: 9,987t (80.05%)  
to Private institutions: 1,686t (13.51%)  
to Public institutions: 803t ( 6.44%)

Total: 12,477t (2014)

to Kigali: 8,600t (68.93%)  
to Northern Province: 670t ( 5.37%)  
to Eastern Province: 630t ( 5.05%)  
to Southern Province: 453t ( 3.63%)  
to Western Province: 2,124t (17.02%)



# Trends of E-waste in Rwanda



	2014	2020	2025	2030	2050
EEE usage in Rwanda (kg)	33,449,623.04	47,309,164.30	63,154,890.07	84,307,981.33	267,741,393.33
E-waste generation in Rwanda (kg)	8,790,255.66	12,432,416.62	16,596,528.74	22,155,368.07	70,359,994.68



Annual growth rate of 5.95%

# Legal Framework for E-waste management in Rwanda

- ▶ Environmental law ( Revised to include article 20 - E-waste management ) Approved by the Parliament in 2018
- ▶ E-waste Regulations Approved by the board of the Regulatory Authority ( RURA) in 2018
- ▶ National E-waste Policy ( 2017)
- ▶ National sanitation Policy Approved by the Cabinet in 2016

# PPP for E-waste Management in Rwanda Infrastructure

- ▶ The government of Rwanda in partnership with Enviroserve Rwanda Green Park has established a state of art e-waste dismantling and recycling facility and collection points





# COLLECTION POINTS ESTABLISHED



# PROFESSIONAL REPAIR AND REFURBISHMENT CENTER ESTABLISHED IN KIGALI





**IT REFURBISHMENT  
PARTS HARVESTING**



**HDD SHREDDING**



**DATA WIPING**

# Recycling facility expanded with new machiner



Lead Acid battery testing & recharging system



Lithium Ion battery testing & recharging system

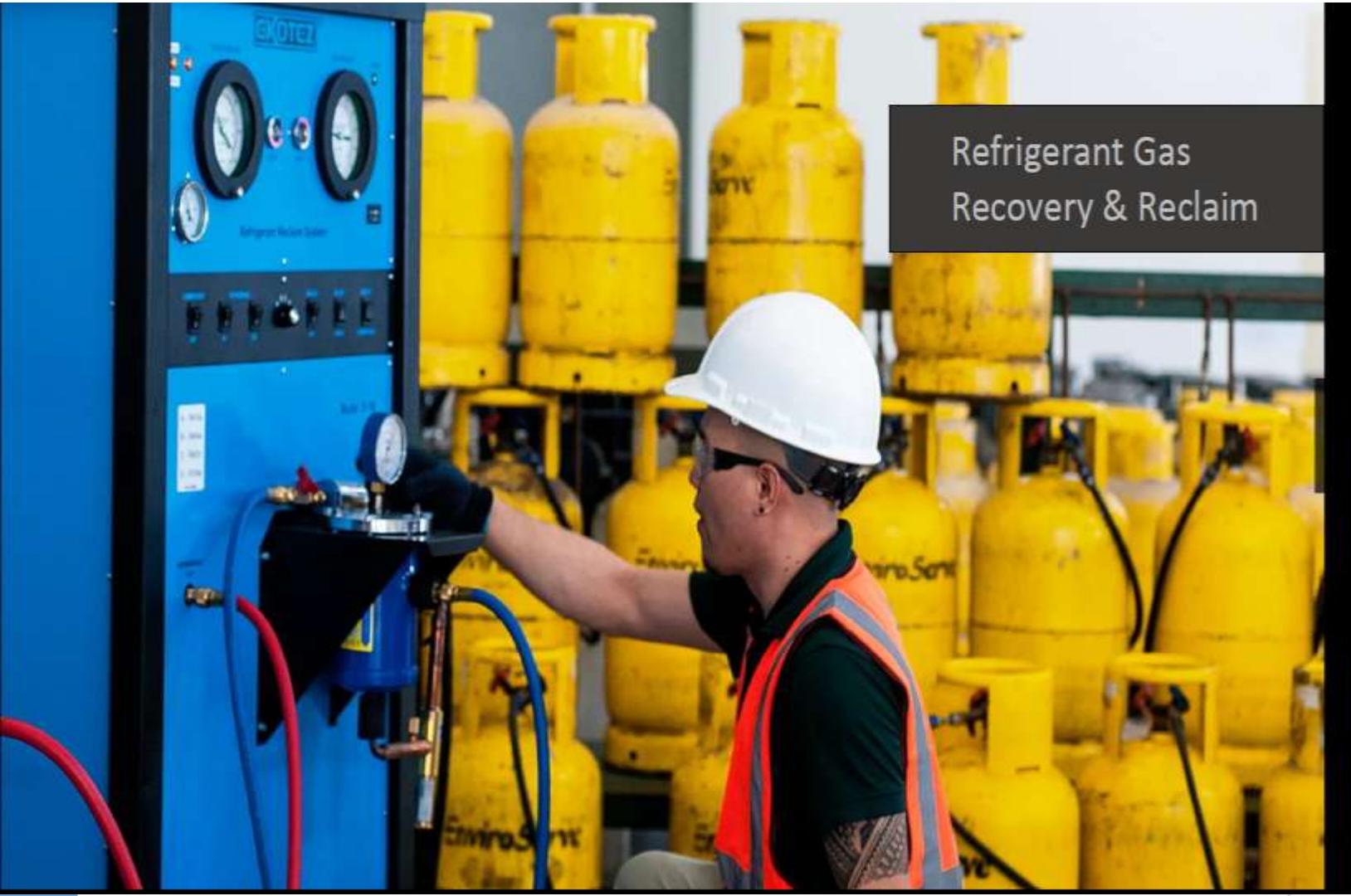
# Facility expanded with new machineries







REFRIGERANT GASES RECYCLING EQUIPMENT PURCHASED  
AND WILL BE INSTALLED IN THE FACILITY END OF OCTOBER  
2023







# AWARENESS

## Industrial waste Treatment

Low power consumption and

### NEWS

## Inside Rwanda's enduring battle to eliminate e-waste



By Julius Bizimungu

Published : December 04, 2018 | Updated : December 04, 2018



Recycling plant for old computers, phones to

## The New Times

Rwanda's Leading English Daily



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### NEWS

## Rwanda to enforce policy on disposal of e-waste

SHARE BOOKMARK PRINT RATING



Electronic waste. An e-waste management policy soon to be enforced in Rwanda will require producers of electronic goods, including importers and retailers, to organise a system for collection and treatment of e-waste. PHOTO | FILE

By Kayitesi Kaven



MTN Uganda MTN Rwanda [Editorial] Tap into the opportunities, solutions

## NEW TIMES

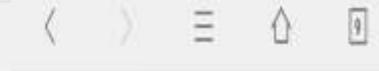
Rwanda's Leading English Daily



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## [Editorial] Tap into the opportunities, solutions in e-Waste plant



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BUSINESS & TECH - TECHNOLOGY

## UAE Recycling Giant Expands To Rwanda

By Daniel Sabiiti January 20, 2018 at 2:55 pm



Government will next week sign an agreement





## E-waste Collection Impact

Collected and recycled  
**7,308** tonnes  
of e-waste since 2018  
(including more than 100  
tons of cooling equipment)

**6,400** tonnes  
of carbon dioxide  
equivalent emissions  
mitigated

**22,931**

computers refurbished  
In collaboration with  
REB, more than 2500  
refurbished computers  
has been distributed to  
schools)

**1,124**

green jobs created



# Key Lessons Learnt

- ▶ Public Private partnership is key for the success of e-waste management initiatives in developing countries
- ▶ Involvement of all key stakeholders in the awareness raising on e-waste is paramount to achieve sustainable e-waste management
- ▶ Use of media including social media has improved the awareness levels in the young generations
- ▶ EPR regulations are key for sustainable financing of e-waste collection and recycling



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THANK YOU!

SAVE THE PLANET. NATURALLY.