



e-Waste Management

2026

# Proposal

A Sustainable Solution

**Prepared for :**

Emfuleni Local Municipality

# WELCOME

**Did you know that South Africa generates thousands of tons of e-waste each year, yet only a small percentage is recycled responsibly?** The improper disposal of e-waste contaminates our air, water, and soil, releasing hazardous substances like lead, mercury, and arsenic. Informal recycling practices also expose vulnerable communities especially women and children to serious health risks.

This initiative supports the development of a circular economy, creates green jobs, and strengthens the Province's commitment to sustainable development and environmental leadership.



# The e-Waste Challenge in South Africa



South Africa faces a critical e-waste challenge, generating over 360,000 tons of electronic waste each year. On average, each person produces 6 to 7 kg of e-waste annually, yet only 7% to 12% is properly recycled. The rest often ends up in landfills or is illegally dumped, releasing hazardous substances like lead, mercury, and arsenic into the environment. These toxins contaminate soil, water, and air, posing severe health risks such as respiratory problems, neurological damage, and developmental issues. The country's waste management systems are overwhelmed, struggling with limited storage space, ineffective disposal options, and unclear guidelines on handling e-waste responsibly. Informal recycling practices release toxic fumes, harming vulnerable communities, and improper disposal endangers ecosystems and biodiversity.

Although the Extended Producer Responsibility (EPR) legislation was introduced in 2021 to address the issue, challenges in public awareness and compliance remain, underscoring the need for sustainable e-waste management solutions. The urgency of addressing South Africa's e-waste crisis cannot be overstated. It is essential to implement effective recycling practices, raise awareness, and strengthen regulations to protect public health and the environment.



**The Gauteng generates approximately 10% of South Africa's e-waste annually over 21,000 tons driven by rising digital access and electronic consumption.**



**Only 10% of South Africa's e-waste is recycled properly, with each person generating 6 to 7 kg of e-waste annually.**

# e-Waste Initiative Goals



The goal is to establish a structured e-waste management system through a Public-Private Partnership (PPP) with BAM Group Holdings. This includes implementing an e-waste collection programme, promoting responsible disposal, and developing an internship programme to train individuals in e-waste management. The initiative also aims to provide training for youth through the Quality Council for Trades and Occupations (QCTO) in skills like dismantling and repairing electronics, including cellphone repairs, with NQF Level 4 accreditation. Additionally, the programme will ensure compliance with ISO 9001 and 14001 standards while exploring funding opportunities to support long-term sustainability.



## 01 REFURBISHMENT

- Establish a structured system for refurbishing and recycling e-waste.

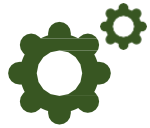
## 02 PARTNERSHIP

- Collaboration on a PPP (Public Private Partnership) with MNO's and agencies.

## 03 SUSTAINABILITY

- Promote environmentally responsible disposal of electronic devices.

# e-Waste Initiative Goals



## 04 COLLECTION

- Implement an e-waste collection program with designated bins at key locations.

## 05 TRAINING

- Develop a Internship program for training 100 – 300 individuals in digital literacy, mobile repairs, and e-waste management.

## 06 COMPLIANCE

- Ensure compliance with industry and environmental regulations through ISO 9001 & 14001 training and certification.

## 7. RESEALE

- Explore commercial opportunities to resell refurbished electronic components by partnering organisations who specialize in electronic buy-back and recycling.

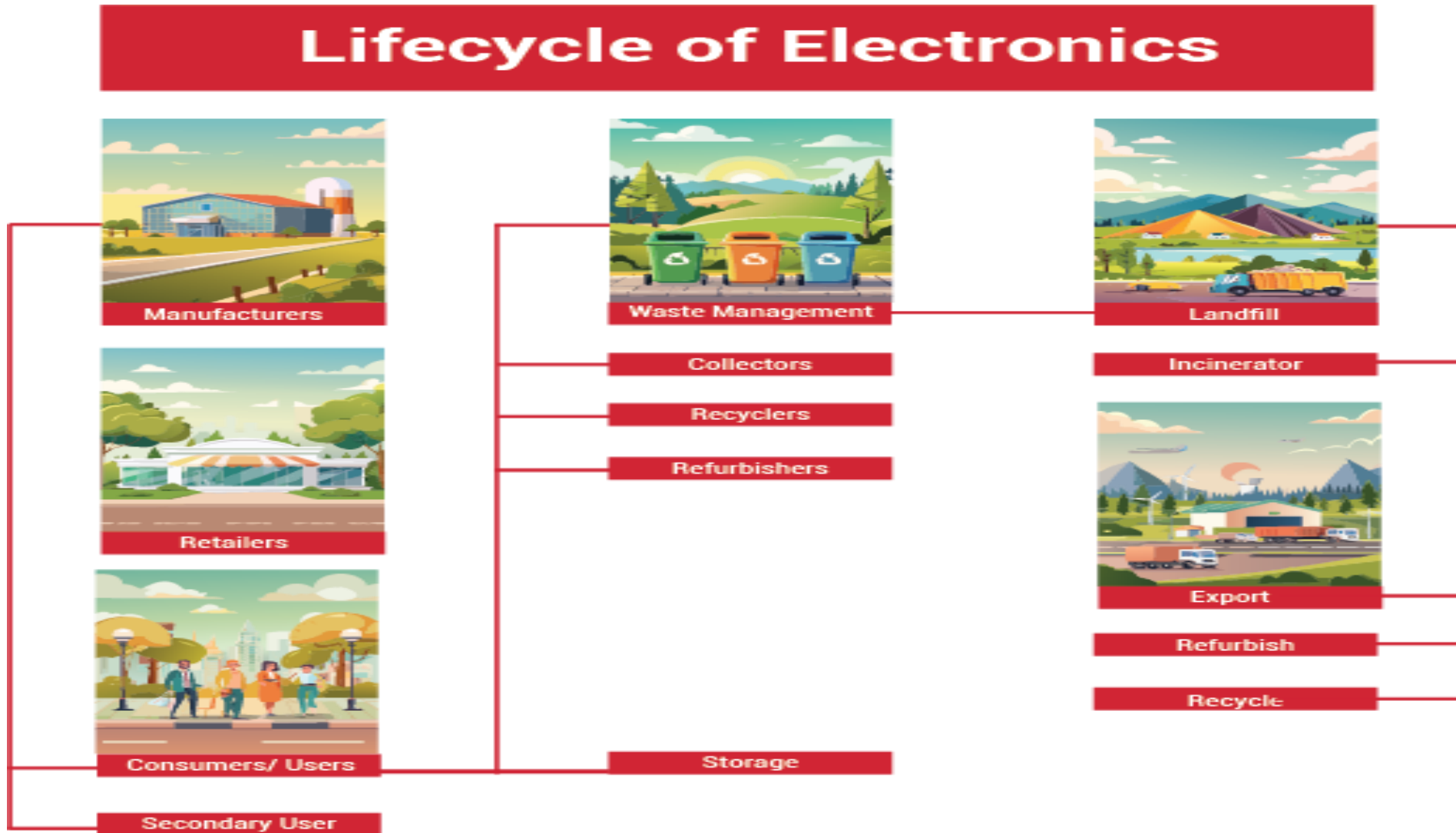
## 8. AWARENESS

- Increase public awareness of responsible e-waste disposal beyond existing outreach initiatives.

## 09 FUNDING

- Funding for training, infrastructure, and outreach efforts
- Sponsorship for materials, equipment, and operational costs

# e-Waste Website



# IMPLEMENTATION PLAN



## Planning & Infrastructure setup

- Conduct a feasibility study on the volume of e-waste generated and the current disposal practices.
- Identify and establish key collection points across Gauteng, ensuring accessibility.
- Secure storage facilities for collected e-waste with appropriate security and environmental safeguards.
- Develop partnerships with certified e-waste recyclers and refurbishment experts.
- Establish training curricula for Internship and certification programs.

## Collection & Sorting

- Deploy e-waste collection bins at government buildings, universities, shopping centers, and major public spaces.
- Set up a digital tracking system to monitor e-waste collection, processing status, and impact metrics.
- Train personnel on proper handling and sorting of e-waste to maximize recovery and reuse.

## Refurbishment & Recycling

- Assess collected devices for refurbishment potential, salvaging working components.
- Implement quality control measures to ensure refurbished devices meet safety and operational standards.
- Partner with businesses and educational institutions to distribute refurbished devices to schools and underserved communities.
- Work with certified recyclers to ensure non-recyclable components are disposed of in compliance with environmental regulations.

# IMPLEMENTATION PLAN

## Internship & Workforce Development

- Launch the Internship program targeting youth and unemployed individuals.
- Provide hands-on training in electronic repairs, refurbishing, digital literacy, and sustainable business practices.
- Issue NQF Level 4 qualifications and industry-recognized certifications upon successful completion.
- Facilitate job placements and entrepreneurship opportunities for program graduates.

## Public Awareness & Engagement

- Design and launch a digital marketing campaign to educate the public on responsible e-waste disposal.
- Organize workshops and community events to spread awareness on e-waste hazards and sustainable solutions.
- Collaborate with media outlets and influencers to amplify the message.
- Develop an interactive website with collection point information, Internship applications, and sustainability reports.

# Resource Allocation & Funding Strategy



01

## TRAINING COSTS

Training each individual in electronics repair costs R48,000. We plan to train 100-200 people across Gauteng Province, equipping them with skills in electronics repair and management.

04

## e-Waste COLLECTION TARGET

Our goal is to collect and recycle 10,000 tons of e-waste annually in Gauteng, reducing environmental harm and promoting responsible disposal.

02

## SHIPPING CONTAINER COST

To facilitate training and e-waste storage, we'll invest in shipping containers, costing R260,000 each. These will serve as mobile training stations and collection points.

05

## PROGRAM PARTICIPANTS

The initiative will provide training to 100-200 youth, who will gain NQF Level 4 certification in electronics repair, accredited by QCTO, creating valuable job opportunities and enhancing employability.

03

## SPONSORSHIP FOR RESOURCES

We'll seek sponsorship for t-shirts, equipment for electronics repair, and vehicles to collect e-waste, ensuring the program runs smoothly across the Gauteng.

06

## REFURBISHED ELECTRONICS FOR RESALE

Through partnerships with organizations like eWASA and Reclaim, we aim to refurbish and resell up to 50,000 electronic devices annually, contributing to e-waste reduction and economic sustainability.

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# Mobile Tech Hub



Our innovative shipping container will serve as a mobile tech hub in townships, providing hands-on training in e-waste management and electronics repair. Powered by BAM Group Holdings & by The Department of Economic Development, Environmental Affairs & Tourism (DEDEAT).

# e-Waste Management Initiatives



Organizations such as Dispose-IT South Africa, eWaste Africa, Oricol Environmental Services, Reclam, Mpack, and eWASA are actively addressing e-waste through services like collection, recycling, and responsible disposal. They collaborate with global brands like Dell, Apple, and Samsung, providing useful models for The Department of Economic Development, Environmental Affairs & Tourism (DEDEAT) to implement a sustainable e-waste solution.

01

## DISPOSE-IT SOUTH AFRICA

Specializes in compliant disposal of electronic waste, offering collection, storage, and processing services. They maximize recycling and minimize landfill usage by dismantling e-waste into materials like plastics, metals, and components.

04

## RECLAIM

Works with major companies like Dell, HP, and Samsung to implement take-back programs and promote responsible e-waste management practices.

02

## e-WASTE AFRICA

Provides certified collection and recycling services for lighting and electronic waste. Their trained teams ensure the safe handling of hazardous materials, promoting responsible recycling.

05

## MPACT

Partners with companies like Canon, Epson, and Xerox to promote recycling and sustainable practices in the printing industry, focusing on the responsible disposal of electronic waste.

03

## ORICOL ENVIRONMENTAL SERVICES

An accredited member of the Electronic Waste Association of South Africa (eWASA), Oricol operates permitted treatment and disposal sites, investing in advanced facilities for responsible e-waste recycling.

06

## eWASA

Collaborates with global tech giants like Apple, Microsoft, and Sony to implement take-back programs and ensure responsible disposal of electronic waste.

# Potential Supporters and Partners

We seek to partner with organizations across finance, environment, and technology sectors to support our e-waste management initiative. These collaborations will provide funding, resources, and technical expertise to drive sustainable solutions and create meaningful impact..



# NEXT STEPS

- Finalize program branding and marketing materials.
- Secure storage space for collected e-waste.
- Confirm the training curriculum and accreditation process.
- Develop and finalize the MOU/MOA for PPP partnership approval.
- Launch awareness campaigns to educate the public on responsible e-waste disposal.
- Establish data tracking and reporting systems to measure impact.



# BAM Group Holdings Training programme

BAM Group Holdings is a youth empowerment and skills development program focused on mobile device repair, sales, and entrepreneurship. We aim to equip young people with technical and business skills to create sustainable enterprises, drive economic growth, and enhance local service quality.

**BAM**  
GROUP HOLDINGS

BAM Group  
Holdings  
contribution to  
the programme



- Technical Training: Hands-on skills in mobile repairs, e-waste, and computer servicing.
- Entrepreneurship Skills: Training in new venture creation and business management.
- Internship Experience: Real-world practice with actual devices.



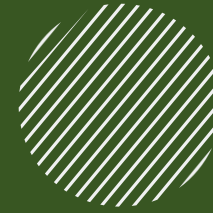
- Digital Literacy: Equipping youth with essential digital skills.
- e-Waste Recycling: Safe disposal and recycling techniques.
- Certification: Recognized certifications for employability.



- Mentorship: Guidance from industry professionals.
- Tools & Resources: Access to tools, learning materials, and digital resources.
- Job Creation: Drives local employment and small businesses.
- Sustainability Focus: Supports SDGs and eco-friendly practices.



# CONCLUSION



We are committed to driving a transformative e-waste management initiative in collaboration with The Department of Economic Development, Environmental Affairs & Tourism (DEDEAT). By prioritizing sustainable practices, community training, and responsible recycling, we aim to tackle the escalating e-waste crisis while creating meaningful job opportunities and promoting environmental responsibility. This initiative will position Gauteng as a leader in e-waste innovation, contributing to both economic growth and ecological sustainability, and ensuring a cleaner, more resilient future for the region.





# Thank You

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