

# MUNICIPALITY OF CHINHOYI



**Opportunities for Waste Separation and Recycling at  
Household Level. A pilot study for Gadzema residential area.**

**Zimbabwe**

Presented by

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Tanzania workshop on ISWM

# 1.Problem/Challenge:

- In 2008 the index case for Cholera reported from Gadzema.
- Poor waste management attributed to poor health and hygiene
- Costs of transferring such wastes to the landfill are high and fills up valuable space unnecessarily.

\* **Justification** - A waste characterization study conducted in 2013 indicated a high generation of recyclable waste from residential areas



## 2. Institutional Setting

- **Constitution of Zimbabwe** - Upholding Constitutional rights to a clean environment using the waste minimizing principles of Reduction, Recycling and Reuse
- **Community development** - Promoting community responsibility in managing waste
- **Education** - Educate and raise awareness in a proactive manner
- To promote a culture of waste separation at source so as to reduce the amount of waste collected and disposed of at the dumpsites.
- **Gender and economic empowerment**- Strengthen gender approach in waste separation
- **Stakeholder participation**- Jointly recommended by Council and GIZ (implementing partner) to promote waste separation from the Waste Characterization study



### **3. Approach:**

- **Log frame Approach** – to plan out activities in a matrix
- **Community mobilization** – raise awareness through community Health promoters
- **Questionnaires** – to assess levels of education, waste disposal practices,
- **Interviews** – to assess knowledge and perceptions on waste separation
- **Distribution of bin liners**- x3 per property per week
- **Observations** – to assess commitment by residents to take out separate waste in coded bags during scheduled days
- **Mesh Cages** – to store separated waste
- Compost point for organic waste
- **Sorting and weighing**- further separate waste collected at the dumpsite
- Engaged recycling companies for collection





## 4. OUTPUTS

- **1&2** Separated waste at household level
- **3&4** Sorting and Separation at dumpsite





- A decent degree of behaviour change by residents on household waste separation
- Knowledge transferred- by health promoters to residents
- Reduced waste disposal or illegal dumps
- Marketed recyclable material
- An operational scheduled collection time table
- Responsive recycling companies – ready market
- Empowered community
- An operational waste separation point established at the dumpsite



## **5. Lessons:**

- Residents were keen on separating waste evidenced from their responses
- Durable material for separation is required.
- There is need to promote communal separation points – Construction of communal bins for separate waste.
- Collection of separate waste is possible utilizing regular collection times
- Trailer drawn equipment is more suitable to convey the separated material with minimal interference to the dumpsite.
- There is a ready market for separated waste which can be a possible business to individuals and organizations
- Although there was no ready market for organic waste at the dumpsite, more education needs to be intensified for backyard composting
- Requires very minimal capital investment



- Potential to generate communal organic composts.
- Some organic waste can be used as animal feed
- Saves valuable space at the landfills and potentially reducing underground pollution from leachate
- Possibility of a biogas project for Chinhoyi

### **Recommended strategies:**

**Behaviour rewarded = Behaviour Repeated.**

*Incentivize residents for waste separation*

- Discount their rates on bin collection
- Buy or promote local entrepreneurs to buy recyclable material from residents





## 6. Transfer:

- Problem identification – identify the challenges
- Engage the community- leaders
- Project planning –including budgeting
- Implement
- Evaluate – progress, challenges
- Report results
- Roll out programme to the next ward



# Thank you

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