DAR ES SALAAM, TANZANIA

MS. AYO ENEZAEL
PUBLIC HEALTH OFFICER
C40 SWS Workshop 2019
Ho Chi Minh City
CITY CONTEXT
DAR ES SALAAM, TANZANIA

- Population: 6,041,000
- Climate: Tropical savannah
- GDP per capita: 900 USD (Trading Economics, 2017)
Solid Waste Management Department Responsibilities

- **Coordination** of five municipalities in the city in solid waste management and environmental protection issues
- **Initiating and organising** cross-cutting projects dealing with solid waste management and the environment
- Management of solid waste in **disposal, treatment, recycling and reuse** including allocation and management of landfills
- Preparing **by-laws, policies and guidelines** on cross-cutting issues
- External linkages with other cities
DAR ES SALAAM CITY CONTEXT

Waste Management Context

**Dar es Salaam**

*In figures*

- **4600 t/d** estimated total solid waste generation
- **50%** estimated collection rate
- **0.815 kg/d** per capita MSW generation
- **EST. 30%** of waste segregation at source & dumpsite
- **SCARCE** diversion from landfill

**ORGANIC WASTE STRATEGY (2016 – 2020)**

**EST. 30%** of waste segregation at source & dumpsite

**TYPE OF SEG. WET VS DRY**
Dar es Salaam city is estimated to generate waste 4,600 tons per day.

Environmental Resources Consultancy (ERC) has estimated that DSM could be generating over 12,000 tonnes per day by 2025.

This represents a tripling of the waste generated.
WASTE COMPOSITION

- Kitchen waste: 39%
- Textile: 6%
- Grass and wood: 8%
- Metal: 6%
- Ceramic and stone: 5%
- Paper: 16%
- Plastic: 2%
- Leather and Rubber: 3%
- Glass: 5%
- Other: 3%
DAR ES SALAAM CITY CONTEXT

**Waste Management Players and Infrastructure**

- **Collection**
  - Waste collection is outsourced to more than 80 private companies
  - Strong presence of informal collection, segregation and transportation

- **Intermediate treatment**
  - 33 recycling facilities owned and operated by private companies
  - 1 composting company managing around 10 tons per day
  - 1 public compost site under construction in Kinondoni Municipal

- **Final disposal**
  - 1 dumpsite equipped with a weighbridge
  - 2 more land areas allocated with total of 273 acres on different zone

**FINANCING & FUNDING**

**ENTERPRISE FUNDED:**
- Waste fees are collected directly by private operators
- Private operators then pay a tipping fee to unload at the dumpsite
In planned areas of the city, wastes are generally collected door to door from households, commercial establishments, institutions and industry by either the DLAs or the private sector and taken directly to the Pugu dumpsite.

- Where access by collection vehicle is impractical, collected wastes from these areas are taken initially to neighbourhood collection sites by handcart for bulking and informal resource recovery before transportation to Pugu.
- No transfer station in place
Waste Collection and Transportation

- Solid Waste Collection And Transportation In Urban Areas Are Done By Municipal Councils Or Private/Community Groups On Behalf Of The Councils.
- Types Of Vehicles Used For Waste Transportation Varies, But Mostly Used Are Tipper Trucks, Trailer, Tractors And Compactor Trucks.
- Collection Of Waste Is Daily/Weekly
- Out Of 4,600 Tones Generated Per Day In The City, Only 2,500 Tones Disposed At Pugu Kinyamwezi Dumpsite.
Waste Transportation vehicles
Dar es Salaam City Council has formulated a RECYCLING POLICY OF 2016. The DCC has already identified recycling activities centers in the City on which 33 recycling industries and 39 collection centers were identified. Much of the high value recyclables such as rigid plastic containers, metal and high quality paper are recovered from the waste stream at source or at the neighbourhood collection sites. Recycling facilities were marked and located in GIS.
PET plastics processing and Chipped PET materials ready for export.
Products made from recycled waste (Dar es Salaam)
Final disposal

• Pugu dump site (The Only Authorized dumpsite) was originally intended to operate as a landfill. Due to budget limitations it has operated since opening as controlled open dump.
• At this point, solid waste covers a large percentage of the approved 65 hectares. Upgrading of the landfill will require initial consolidation of these wastes into one area as well as upgrading of the overall site to an engineered landfill.
THANK YOU

CONTACT

- **1 BARABARA YA MOROGORO 11882 DAR ES SALAAM**
- **Postal Address: S.L.P 9084**
- **Telephone: +255 22 2123551**
- **Mobile: 0715046974**
- **Email: cd@dcc.go.tz**

www.c40.org