Driving Impactful WASTE MANAGEMENT
In Ghana and Beyond

A holistic approach to Ghana’s WASTE MANAGEMENT
Driving Impactful Waste Management in Ghana and Beyond

BRIEF FACTS ON ZOOMLION

- Established In the Year **2006**
- Presence in all **254** MMDA’s across the country
- Operation in **6 African** Countries
- Integrated Waste Management Solutions Provider
- Generated over **85,000** Job opportunities with a Core Staff of **3,500**
- Silver Member of International Solid Waste Association (ISWA)
- Received Numerous Awards Locally and Internationally

Driving Impactful Waste Management in Ghana and Beyond

#CitizensAgainstBorla
THE WASTE MANAGEMENT CYCLE

01 Storage
Standard Waste Bins

02 Collection & Transport
Collect from Households, Streets and Public Places

03 Transfer
Temporary Storage / Transit Facility for collected waste

04 Treatment
Recycling, Composting
Energy Recovery
(Turning Waste into Resource)
THE BEGINNING

Dumping of refuse **INDISCRIMINATELY** was a norm leading to various health problems

- Refuse Heap piled up over the years
- Disposal of Waste into Drains
- Burning of Refuse
- Improper disposal of E-Waste
- Dumping of Liquid Waste directly into the sea
- Flooding as a result of Choked Drains
Children are sent to go and dump in the backyard.

Some people come the streets picking up waste.

Driving Impactful Waste Management in Ghana and Beyond
Donkeys were used to Cart Waste
Waste Collection
In 2006
The Revolution in Waste Management Began with 1 Tricycle
Waste Collection in **Public Places** and From **Private Households**

Driving Impactful Waste Management in Ghana and Beyond
Introduction of Innovative ways to Transport Waste

Manual Tricycles

“Borla” Taxi
Introduction of Innovative ways to Transport Waste

Motorized Tricycles

Compactor Trucks

Skip Trucks and Containers

Skip Trucks and Containers
ONE HOUSEHOLD
ONE BIN
1 Million Bin Distribution
THE POWER OF ONE BIN

- Creates Employment
- Promotes a Cleaner & Environment
- Promotes Tourism
- Generates Revenue for Assemblies
- Effecting Attitudinal Change in Citizens
- Prevention Of Communicable Diseases for a healthy Ghana

Change in attitude from the young ones to the Elderly
WASTE BIN CONCEPT IN EVERY HOME
Waste Transfer
Enhancing Waste Collection Through The Use of Transfer Stations

Teshie Transfer Station = 1200 Tons
Manual & Motorized Tricycles Lined Up At The Transfer Station

Achimota Transfer Station = 1200 Tons
Waste Treatment and Disposal
Solid Waste Disposal Challenges at Landfill
## WASTE COMPOSITION IN GHANA

### WASTE COMPONENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
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<tbody>
<tr>
<td>Organic</td>
<td>61%</td>
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<tr>
<td>Plastics</td>
<td>14%</td>
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<tr>
<td>Paper</td>
<td>5%</td>
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<tr>
<td>Metal</td>
<td>3%</td>
</tr>
<tr>
<td>Glass</td>
<td>3%</td>
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<tr>
<td>Textiles</td>
<td>2%</td>
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<tr>
<td>Leather</td>
<td>1%</td>
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<tr>
<td>Miscellaneous</td>
<td>11%</td>
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</tbody>
</table>

Recycling Organic Waste Into Compost For Agricultural Use

ACARP = 600 Tons / Day
INTEGRATED RECYCLING AND COMPOSTING PLANT - IReCoP - APRIL 2019
RECOVERABLE MATERIALS FROM IReCoP

RICH ORGANIC COMPOST
RECOVERABLE MATERIALS FROM IReCoP

- Paper Recycling
- Metal Recycling
- PET Bottle Recycling
Plastic Recycling For The Production Of Bins

Production of 400 dustbins per day
Plastic Recycling For The Production Of Bin Liners

Production of biodegradable bin liners
Project sites in Region identified

State-of-the-art, fully customised Integrated Recycling and Compost Plant (IRCoP) to be established in all the sixteen (16) Regions of Ghana.
Liquid Waste
Liquid Waste Disposal Challenges
Sewerage Systems Treating and Converting Liquid Waste To Resource - A 100-year Problem Solved!!
Oil Waste Disposal Challenges
Oil Waste Treatment

TAKORADI
Medical Waste
Medical Waste Disposal Challenges
Other initiatives
DREDGING - PREVIOUS STATE OF MAJOR DRAINS IN ACCRA

ODAW & KORLE LAGOON DREDGING
DREDGING - ONGOING DREDGING WORKS

ODAW & KORLE LAGOON DREDGING
BEACH CLEANING
To promote tourism
SPRAYING - MOSQUITO CONTROL (NAMCOP)

Control of mosquito population through spraying and fumigation
Fostering Development Through Partnerships
PARTNERSHIP WITH ACADEMIA

Kwame Nkrumah University of Science and Technology (KNUST)

UNIVERSITY OF GHANA
College of Health Sciences

UNIVERSITY OF CAPE COAST

NOGUCHI MEMORIAL INSTITUTE FOR MEDICAL RESEARCH
UNIVERSITY OF GHANA, LEGON

UNIVERSITY OF ENERGY AND NATURAL RESOURCES

UNESCO-IHE
Institute for Water Education

HARVARD UNIVERSITY

SLU
Swedish University of Agricultural Sciences

RWTH AACHEN UNIVERSITY

Western University - Canada
Setting up of K-AISWAM - Zoomlion - KNUST Collaboration

@ NMAI DZORN - ACCRA

KNUST- AFRICA INSTITUTE OF WASTE MANAGEMENT AND SANITATION
Jospong-Harvard Collaboration

Board Member - Institute of African Studies - HARVARD UNIVERSITY
Zoomlion Collaborates with The Church
ZOOMLION’S CONTRIBUTION TO ATTAINING SDGs

3. GOOD HEALTH AND WELL-BEING

6. CLEAN WATER AND SANITATION

8. DECENT WORK AND ECONOMIC GROWTH

9. INDUSTRY, INNOVATION AND INFRASTRUCTURE

11. SUSTAINABLE CITIES AND COMMUNITIES

13. CLIMATE ACTION
Foot Prints in Africa

Equatorial Guinea

Angola

Zambia

Liberia

Togo
Thank You!
For Your Attention