

Driving Impactful **WASTE MANAGEMENT** In Ghana and Beyond



ENVIRONMENTAL
SANITATION



UN-HABITAT



AFRICAN CLEAN
CITIES PLATFORM


PLATE-FORME AFRICAINE
DES VILLES PROPRES

A holistic approach to Ghana's **WASTE MANAGEMENT**

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

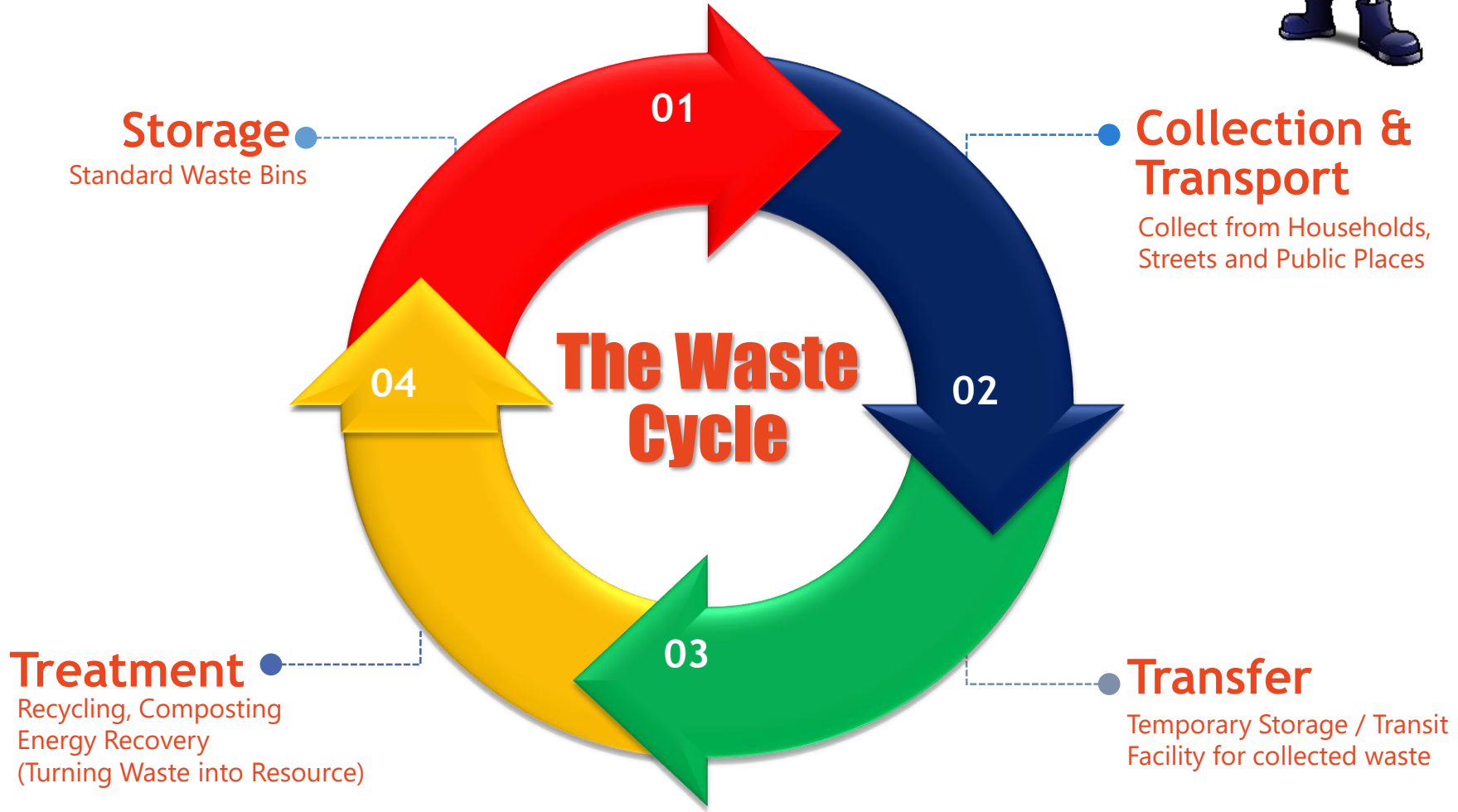
 Generated over **85,000**
Job opportunities with a
Core Staff of **3,500**

 Silver Member of International
Solid Waste Association
(ISWA)

 Received Numerous Awards
Locally and Internationally



THE WASTE MANAGEMENT CYCLE



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



Waste **Transportation** Methods were not effective



Children are sent to go and dump in the backyard



Some people come the streets picking up waste

THE PAST

Waste **Transportation** Methods were not effective



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



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**

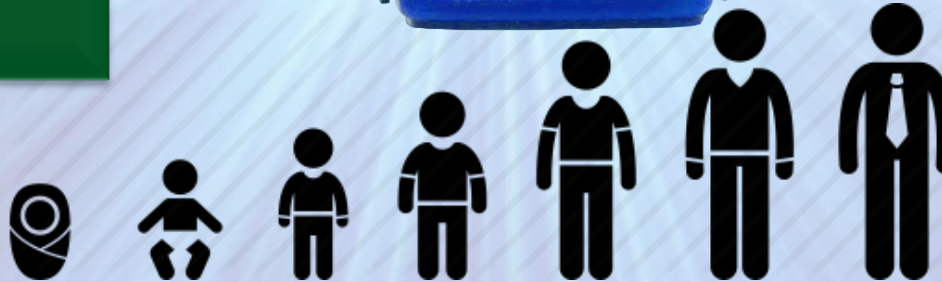
**Promotes
Tourism**



**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

Driving Impactful Waste Management in Ghana and Beyond



Waste Treatment and Disposal



Solid Waste Disposal Challenges at Landfill



WASTE COMPOSITION IN GHANA

WASTE COMPONENTS	
Organic	61%
Plastics	14%
Paper	5%
Metal	3%
Glass	3%
Textiles	2%
Leather	1%
Miscellaneous	11%

Source: KNUST & Zoomlion Ghana Limited, 2011



Recycling Organic Waste Into Compost For Agricultural Use



ACARP = 600 Tons / Day

INTEGRATED RECYCLING AND COMPOSTING PLANT - IReCoP - APRIL 2019



EQUIPMENT AT IReCoP - APRIL 2019



EQUIPMENT AT IRECoP - APRIL 2019



RECOVERABLE MATERIALS FROM IReCoP



RICH ORGANIC COMPOST

RECOVERABLE MATERIALS FROM IReCoP



PAPER RECYCLING



METAL RECYCLING



PET BOTTLE RECYCLING

RECOVERED MATERIAL FOR REUSE

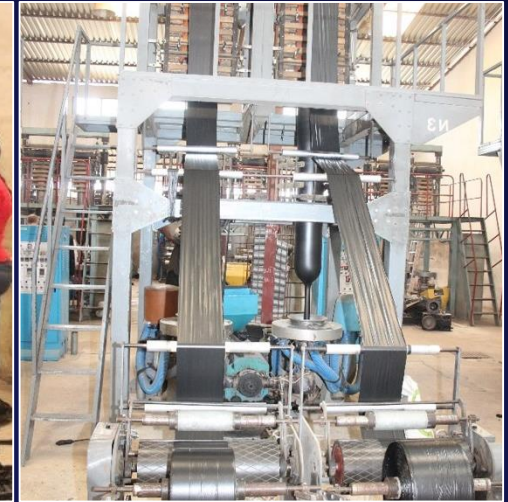


Plastic Recycling For The Production Of Bins



Production of 400 dustbins per day

Plastic Recycling For The Production Of Bin Liners



Production of biodegradable bin liners





NATIONWIDE PRESENCE

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

THE PAST

Medical Waste Disposal Challenges



Medical Waste Treatment Facility





Other initiatives

An abstract geometric pattern consisting of numerous thin, light gray lines forming a complex, interconnected web of shapes, located in the bottom left corner of the slide.



DREDGING - PREVIOUS STATE OF MAJOR DRAINS IN ACCRA



DREDGING - ONGOING DREDGING WORKS



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



Swedish University of
Agricultural Sciences

INSTITUTE
FOR
ENVIRONMENTAL
RESEARCH



RWTHAACHEN
UNIVERSITY

Western
UNIVERSITY · CANADA



Setting up of K-AISWAM- Zoomlion - KNUST Collaboration

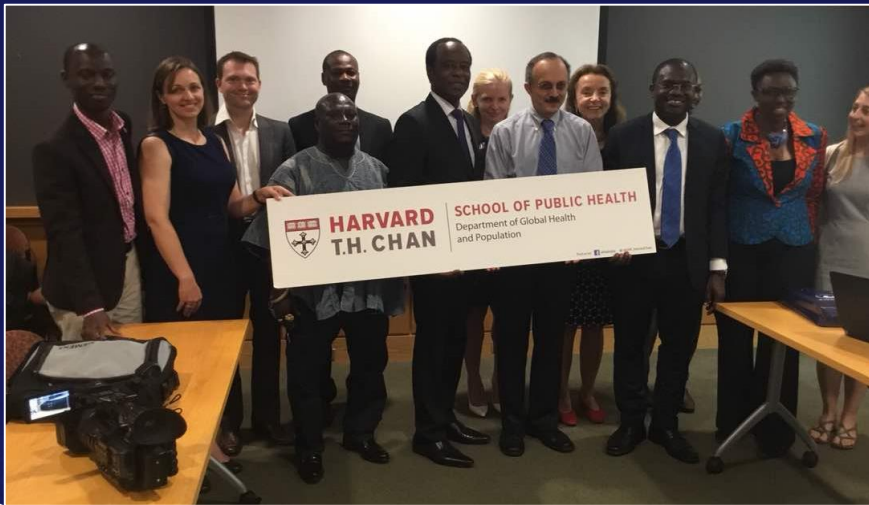
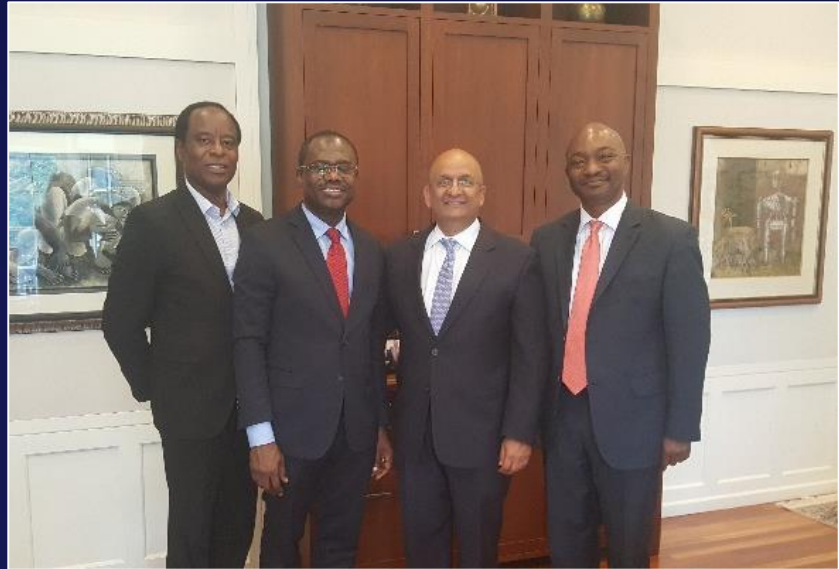


@ NMAI DZORN - ACCRA

KNUST- AFRICA INSTITUTE OF WASTE MANAGEMENT AND SANITATION



Jospong-Harvard Collaboration



Board Member - Institute of African Studies - HARVARD UNIVERSITY



Zoomlion Collaborates with The Church



ENVIRONMENTAL CARE
CAMP  **GN**



ZOOMLION'S CONTRIBUTION TO ATTAINING SDGs

3 GOOD HEALTH
AND WELL-BEING



* WORLD MERIT

6 CLEAN WATER
AND SANITATION



* WORLD MERIT

8 DECENT WORK AND
ECONOMIC GROWTH



* WORLD MERIT

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



* WORLD MERIT

11 SUSTAINABLE CITIES
AND COMMUNITIES



* WORLD MERIT

13 CLIMATE
ACTION



* WORLD MERIT

Foot Prints in Africa



Equatorial Guinea



Angola



Zambia



Liberia



Togo





Thank You!

For Your Attention