Emmanuel Kiyaka

Kenya

Stopping AMR pathways through waste & pollution action



Green Interventions for Sustainable Towns (GIST) Kenya

GIST | GREEN INTERVENTIONS FOR SUSTAINABLE TOWNS



Empowering youth, Transforming lives!

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www.gist-ke.org

SHARPS: GREEN MEDICAL WASTE MANAGEMENT



Healthcare Waste

Improper disposal of sharps and infectious waste from healthcare facilities releases pathogens and chemical contaminants into soil and water systems.

Environmental Contamination

Contaminated environments expose communities, wildlife, and ecosystems to resistant microorganisms and antimicrobial residues.

AMR Development & Spread

Sustained exposure drives selection pressure for antimicrobial resistance, threatening One Health across human, animal, and environmental domains.

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THE PROBLEM: HEALTHCARE WASTE & ENVIRONMENTAL RISKS

22 FACILITIES ASSESSED

90.9% generating sharps and infectious waste — posing direct risks to waste handlers and surrounding communities.

INADEQUATE PPE

72.7% of facilities reported insufficient personal protective equipment for healthcare waste handlers.

ENVIRONMENTAL & HEALTH HAZARDS

Improper waste management leads to environmental contamination, disease spread, and serious public health hazards.



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OUR SOLUTION

ASSESS & TRAIN

Assessment of healthcare waste practices across 22 facilities. Training healthcare workers on safe handling and PPE use.

SEGREGATE & DISPOSE

Safe segregation of sharps and infectious waste. Established secure disposal systems in partnership with health facilities.

PARTNER & ADVOCATE

Strategic partnerships with county health facilities. Advocacy for improved waste management policies and regulations.



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IMPACT:MEASURABLE PROGRESS



- 22 healthcare facilities engaged across Kisumu County.
- Over 200 kg of sharps safely collected and disposed.
- Partnerships with Kisumu County Referral Hospital and Lumumba Level 4 Hospital.

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WAY FORWARD



- Strengthen healthcare waste management systems in Kisumu
- Amplify youth-led advocacy for environmental health
- Engage policymakers for supportive regulations
- Replicate SHARPS model in other counties

"Together advancing safe, sustainable healthcare waste management in Kenya."

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Thank You!



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