



# Assessment of Public Health Risks From Unsafe Fecal Sludge Management in Accra, Ghana

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# Background

- SaniPath tool assesses **public health risks** from **unsafe FSM**
- **Decision making and advocacy** tool for local governments and development partners
- Characterized only **poor neighborhoods** in Ghana, India and Mozambique



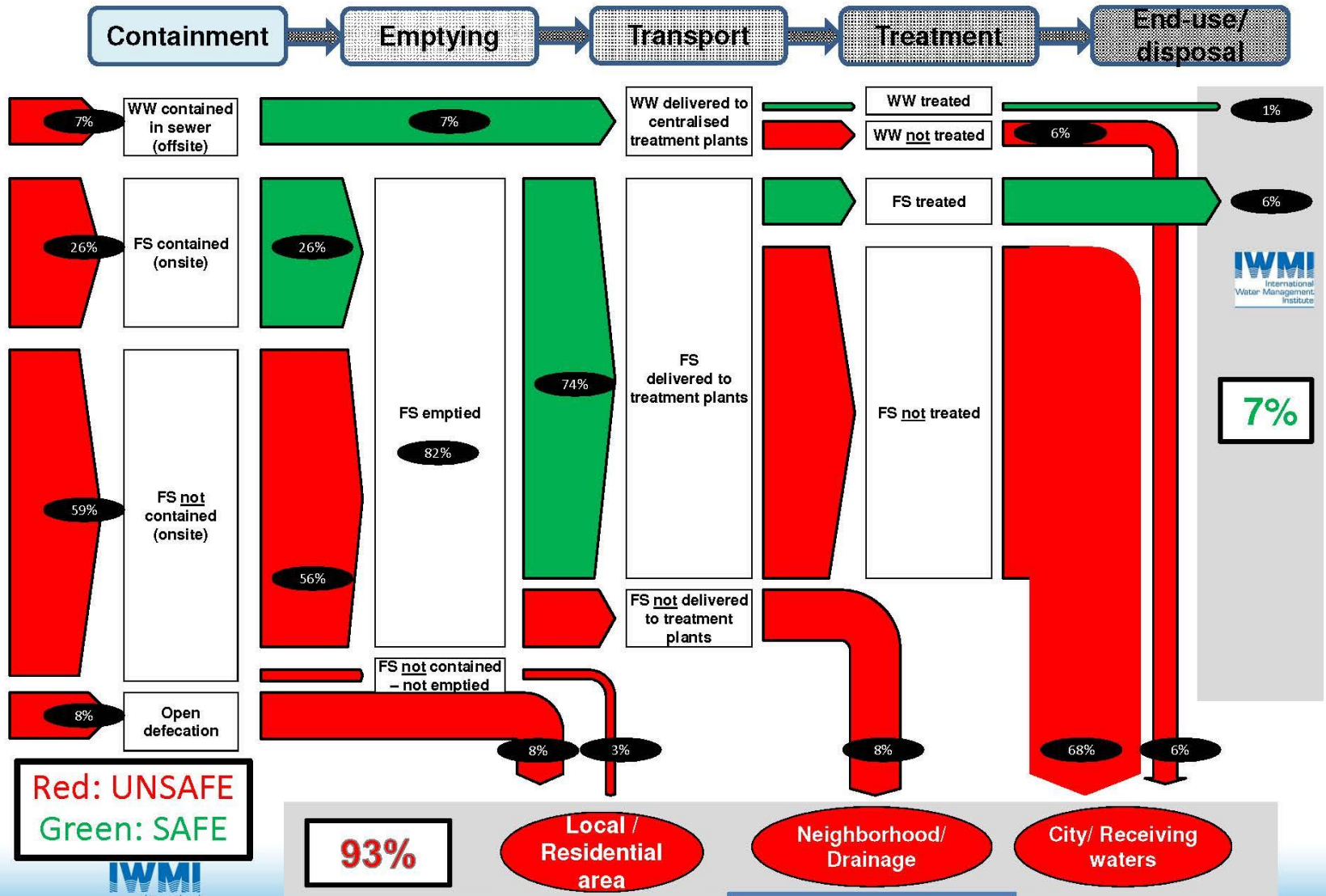
# Introduction

- Demand for **city wide assessments** by decision makers

## Research Question

- Can you characterize **city level** fecal exposure pathways using representative neighborhoods?

# EXCRETA FLOW DIAGRAM: GREATER ACCRA, YEAR 2010



7%



A water-secure world

Source: IWMI, 2015

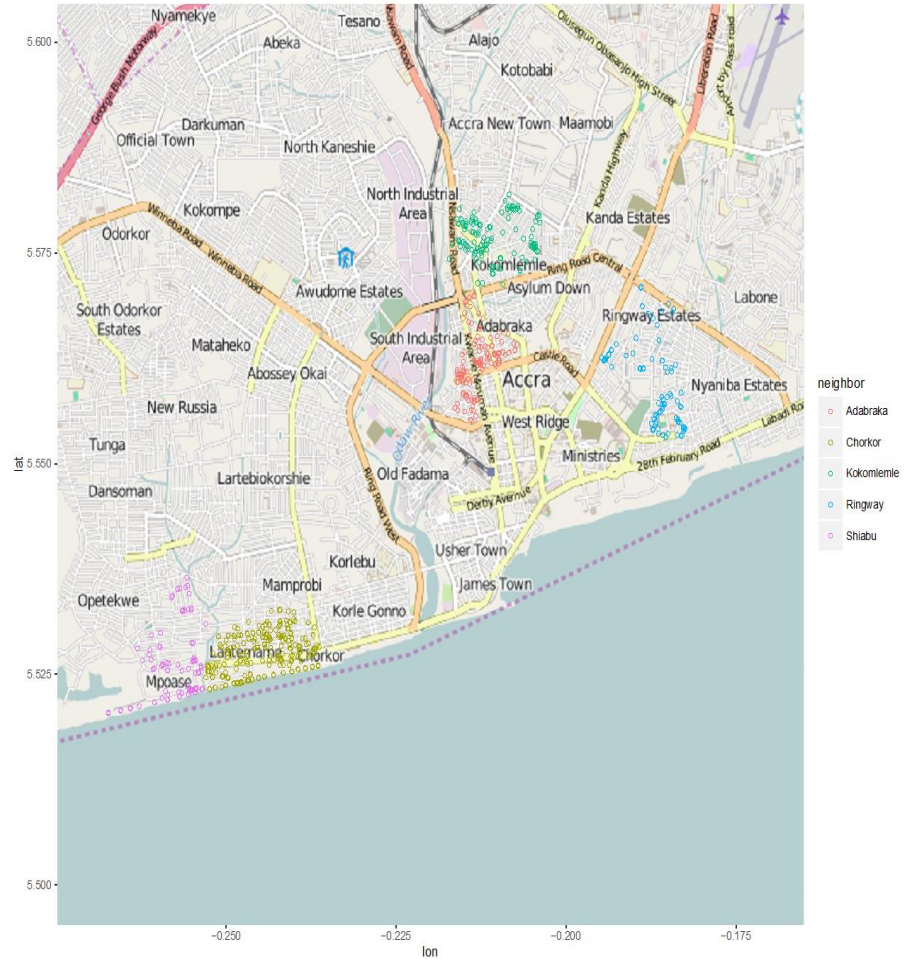
www.iwmi.org

# Methods

- **Engaged** local stakeholders from onset
- Used **recommended publicly available data** to select neighborhoods
- Data sources were **2010 Census** data and **2010 Accra Metropolitan Authority Poverty Map**
- Used **income levels, population density** and **sanitation coverage** to aggregate and rank neighborhoods
- **4 representative neighborhoods** selected out of 87

# Methods

Neighborhood	Ranked Sanitation Category
Ringway Estates	Good
Adabraka	Moderate
Kokomlemle	Poor
Chorkor	Very Poor





# Conditions within study neighborhoods



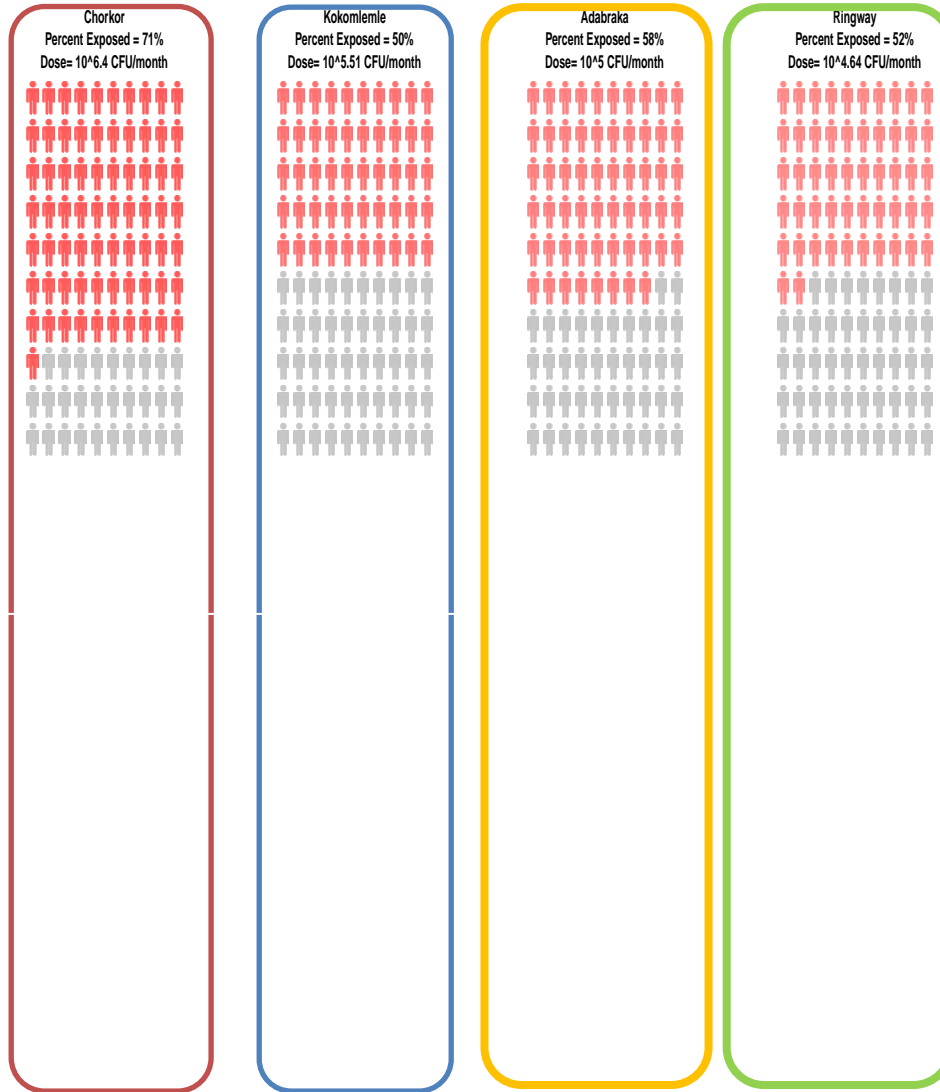
# Methods

- Data collection from April to August 2016
- SaniPath Tool Assessment took 2-4 weeks per neighborhood
  - Behavioral surveys
    - Key informant interviews and transect walks, household and community surveys
  - Environmental sampling and analysis
    - Ocean, drains, food, water, soil, public latrines, flood



## Drains

SaniPath  
deployment in  
4 neighborhoods  
Accra, Ghana, 2016

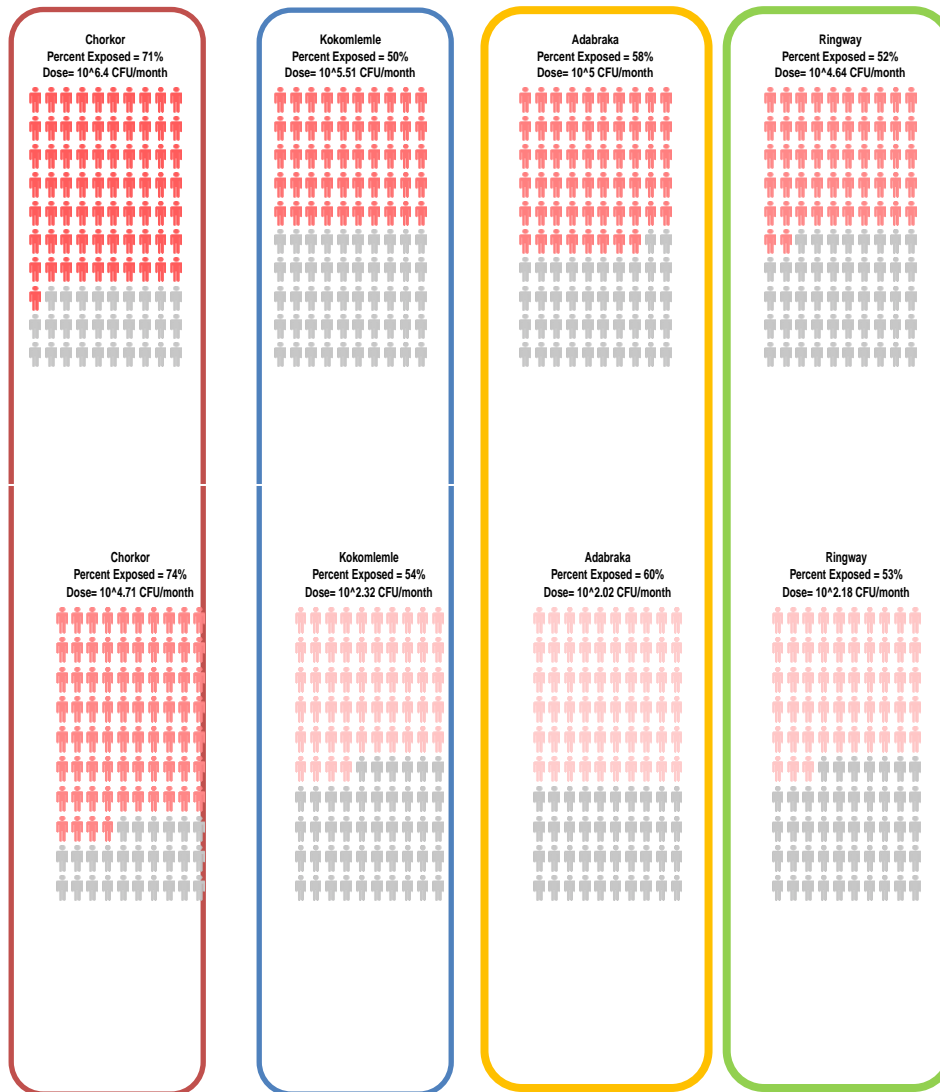


Very Poor  
Poor  
Moderate  
Good

## Drains

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## Drinking Water

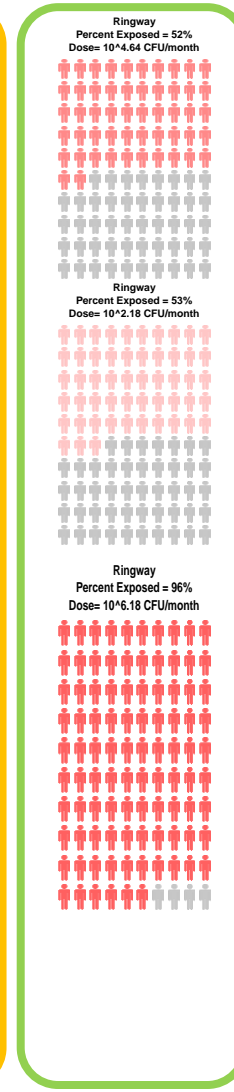
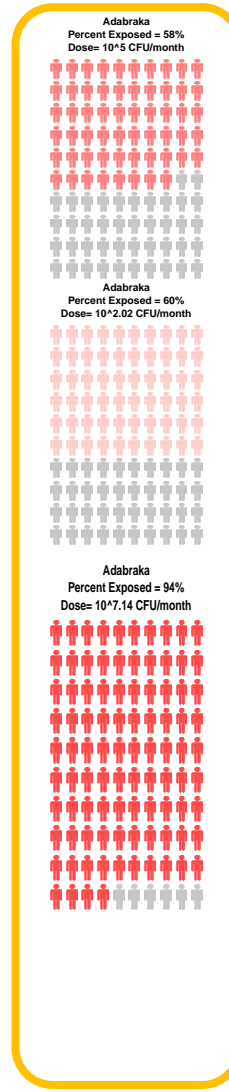
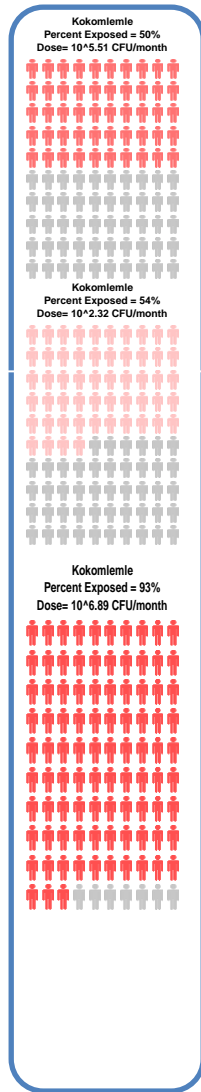
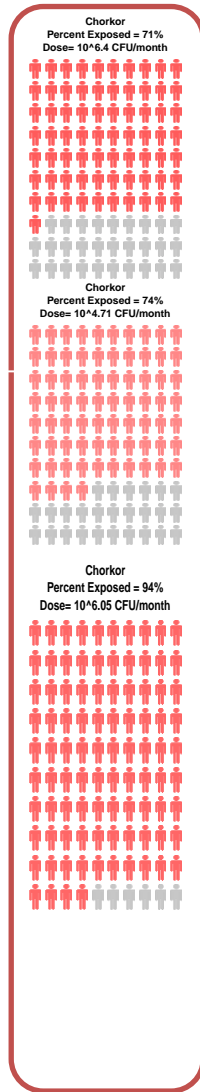


**Very Poor**  
**Poor**  
**Moderate**  
**Good**

Drains

Drinking Water

Produce



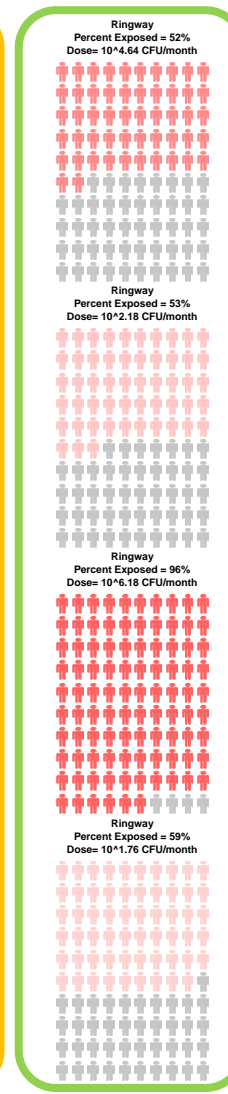
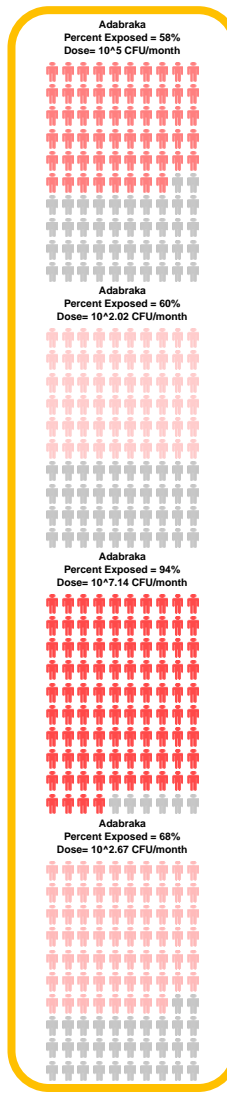
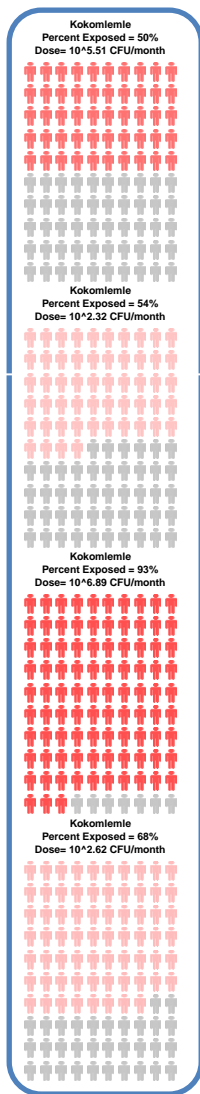
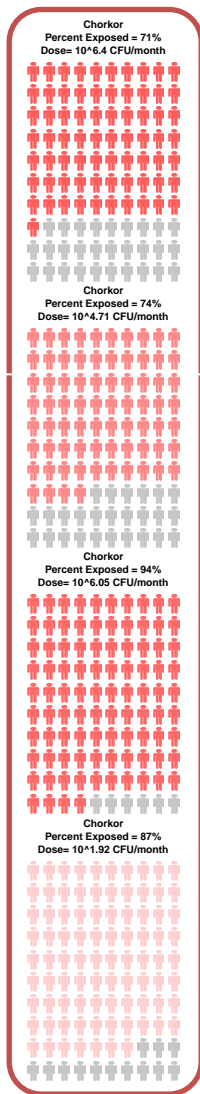
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**Moderate**  
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Drains

Drinking Water

Produce

Public Latrines



**Very Poor**  
**Poor**  
**Moderate**  
**Good**

# Summary

- Publicly available data can be used for a SaniPath city level assessment by sanitation planners and advocates
- Poor FSM in a city may lead to public exposure to fecal contamination irrespective of where you live



# Acknowledgements

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# Thank You

For more information visit **SaniPath.org**



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