

Current and Recommended FSM operation models for over-coming current and future challenges

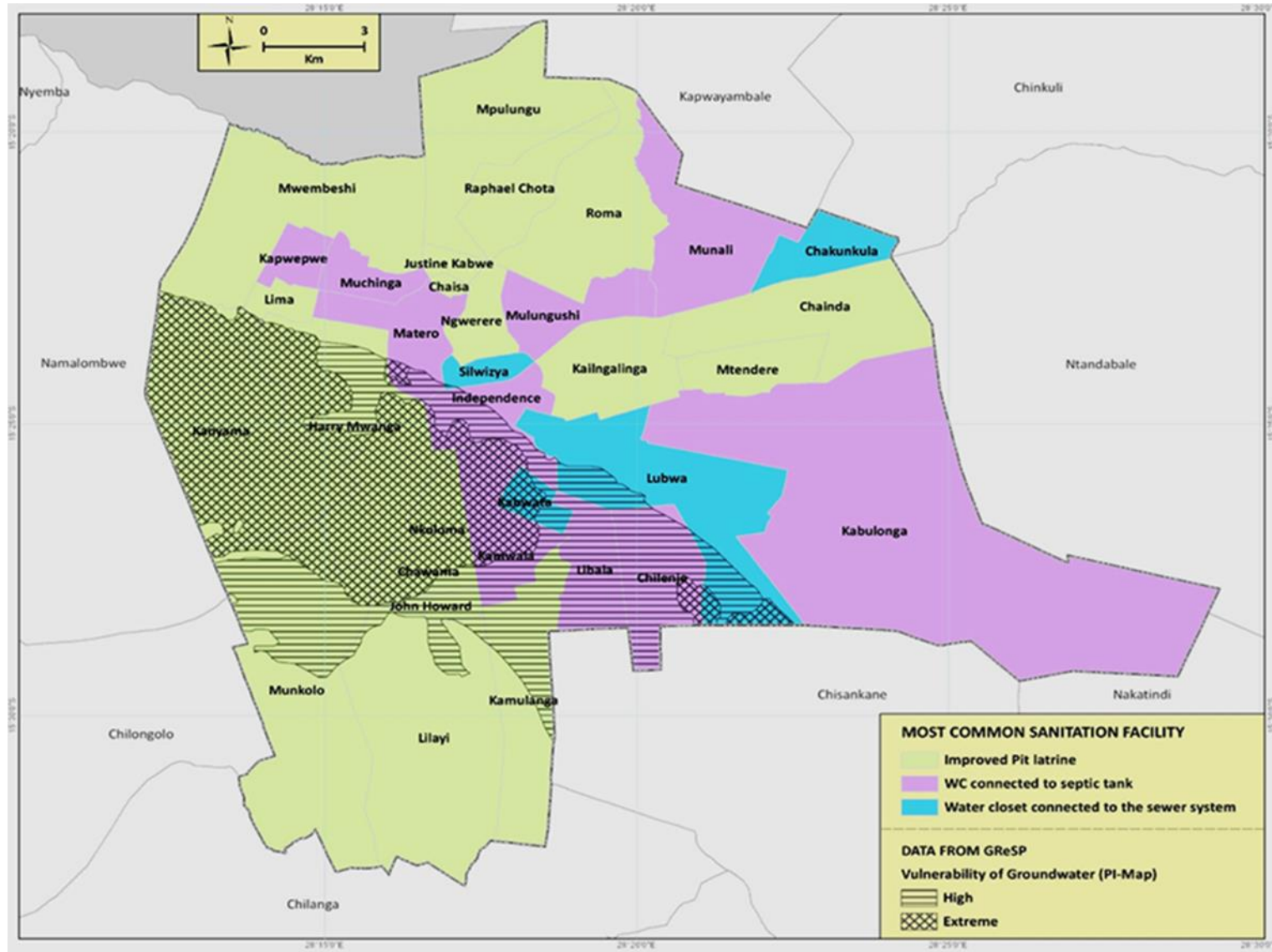
-A Lusaka case study

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INTRODUCTION

Lusaka

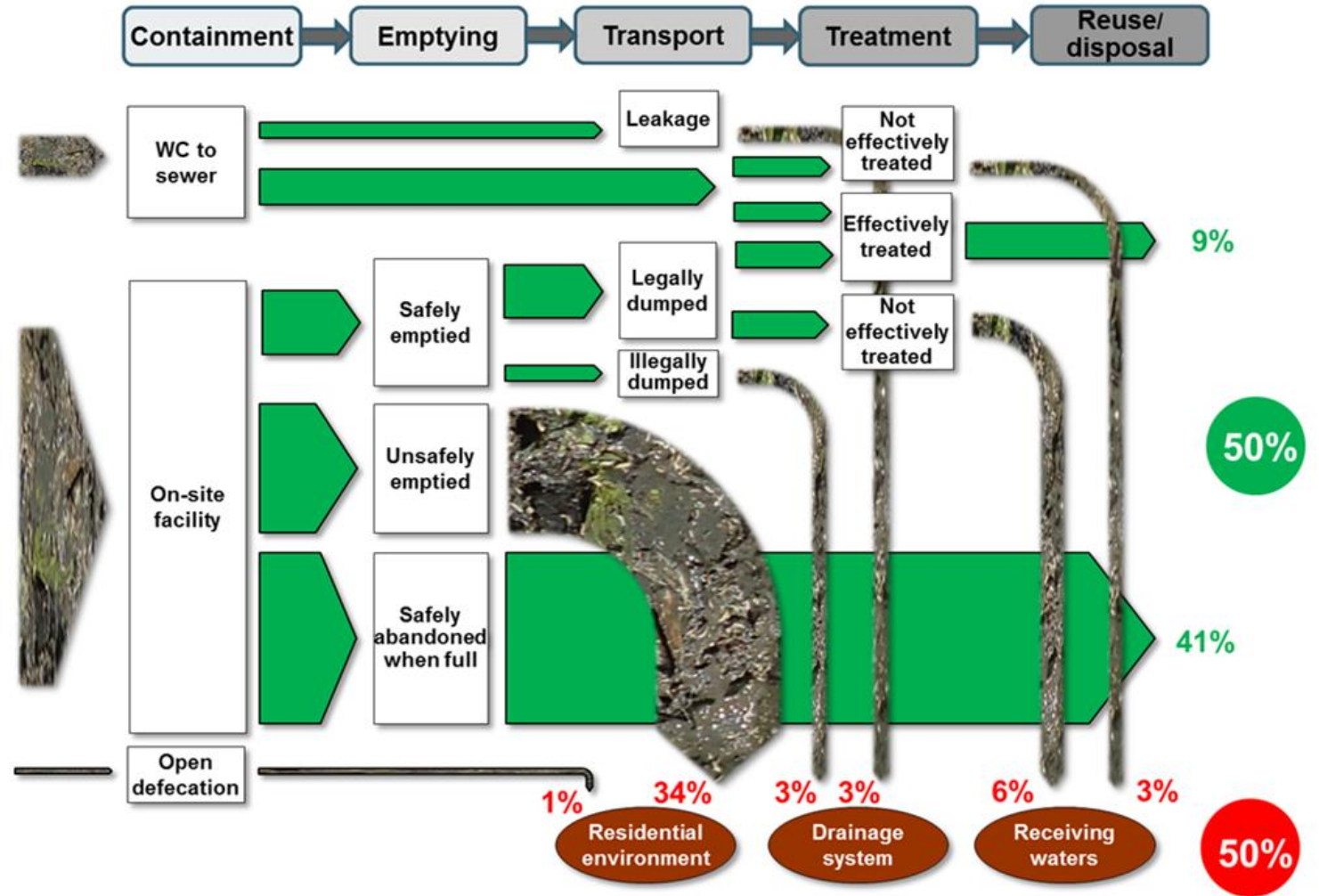
- Capital of Zambia
- Population of 2 million
- 70% in 35 peri-urban areas
- 10-15% people connected to main sewer line
- 90% people in peri-urban areas use pit latrines



INTRODUCTION

Lusaka

- City has 480 km sewer line
- Three sewage treatment ponds
- Four FSM facilities
 - One for vacuum truck waste
 - Two biogas units
 - One holding tank



MOTIVATION

- Population growth leading to basic infrastructure growth
- Sustainable and reliable FSM models to improve:
 - Sanitation access
 - Public health
 - Environmental impact



METHODOLOGY AND STUDY DESIGN

Questionnaire case study in the city of Lusaka.

- Public managed FSSM
- Private managed FSSM
- Public-private managed FSSM

Management models based on:

- Acceptance
- Management and Sustainability
- Operations and maintenance management
- Safety and Reliability



FINDINGS

PUBLIC MANAGED

PROS

- Experience
- community acceptance
- Public institution may have the capacity to invest in awareness measurements
- In place self-safety regulatory

CONS

- High risks and liabilities
- High financial risks and liabilities



FINDINGS

PRIVATE MANAGED

PROS

- Good service provisions and service extension
- Act in the sense to make the most profit out of their system

CONS

- Lack of sensitization campaigns
- Environmental neglect

RECOMMENDATIONS

PUBLIC PRIVATE PARTNERSHIP;

- Public health awareness organized campaigns
- Business interest
- safety and reliability
- High level of community acceptance



RECOMMENDATIONS

1. Independence of licensers and regulators works
2. A strong regulated framework enhances a closely monitored service provision for safe transport and disposal
3. **Safety of practice, marketing and advertising** of the service and **accessibility** increases acceptance
4. Partnerships with established entities such as community based organisations can help to earn trust in communities



MAIN MESSAGES

- FSM service influencing parameters for a particular management system are numerous and closely connected to each other.
- Efforts to follow legal, achieve social acceptance, as well as provide safe and reliable service will just be followed correctly if there is interest in the provision of high quality service and not just focus on short term profit.





Thank you

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