

Week on Water for Development

Thursday – WASHing away the Pandemic with Joint Hands
27th August 2020 | 12:30 – 13:30

Towards Inclusive Green City Sanitation in Lusaka
Achievements and way forward



Partner





This session will be recorded.

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The recording will be made available after the session.



Please turn your camera off.



Please mute yourself whilst not speaking.

AGENDA

12:35 – 12:40

Opening remarks

Mike Enskat

12:40 – 13:00

Presentation on the publication

Doreen Mbalo, Mintje Bäärma & Amanda Mallaghan

13:00 – 13:05

Introducing the Reform of the Water Sector project Phase II

Christian Rieck

13:05 – 13:25

Panel discussion

*Jonathan Kampata (Lusaka Water Supply and Sanitation Company),
Edgar Mulwanda (Lusaka City Council) & Chola Mbilima (National
Water Supply and Sanitation Council)*

13:25 – 13:30

Closing remarks

Peter Kammerer

Opening Remarks

Mike Enskat

Group lead

GloBe Infrastructure - Energy, Water,
Mobility



GREEN INCLUSIVE CITY SANITATION



Towards Inclusive Green City Sanitation in Lusaka

Achievements and way forward



Towards inclusive, green city sanitation for Lusaka – achievements and way forward

Synthesis Report

Published by



Implemented by



The authors involved

The publication was a product of a collaboration between the Climate Friendly Sanitation Services in peri-urban areas of Lusaka project, and the Sector Programme 'Sustainable Sanitation'

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Mintje Būrma: Sector Program Sustainable Sanitation (SV NaSa)

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THE PUBLICATION

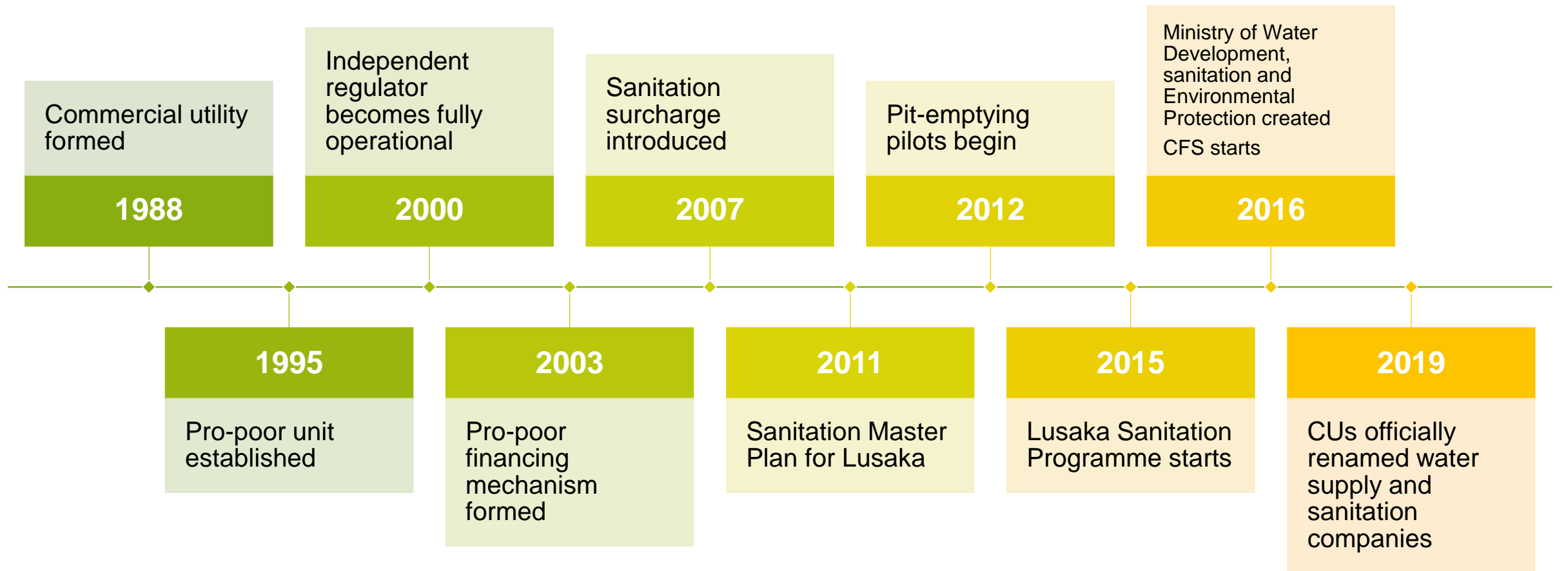
GIZ permalink: <https://mia.giz.de/qlink/ID=246824000>

SuSanA library link (inclusive of separate papers for each focal area): <https://www.susana.org/en/knowledge-hub/resources-and-publications/library/details/3832>



GREEN INCLUSIVE CITY SANITATION

Reform in the Zambian WSS Sector





Focal Areas of the Publication



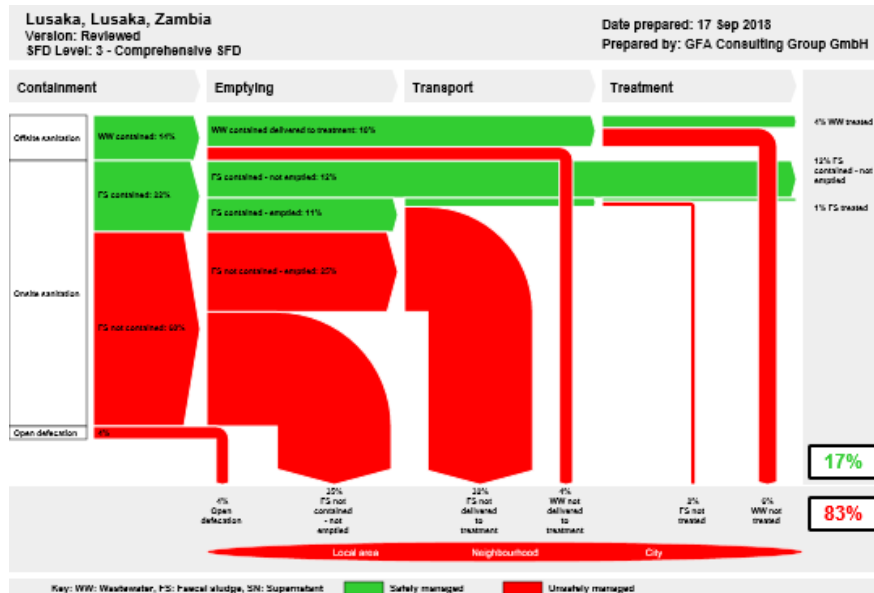
1. OSS and FSM enabling framework
2. Scaling up safely managed sanitation services
3. Workforce competencies and employability
4. Sustainable financing and funding for OSS and FSM
5. Sanitation and climate



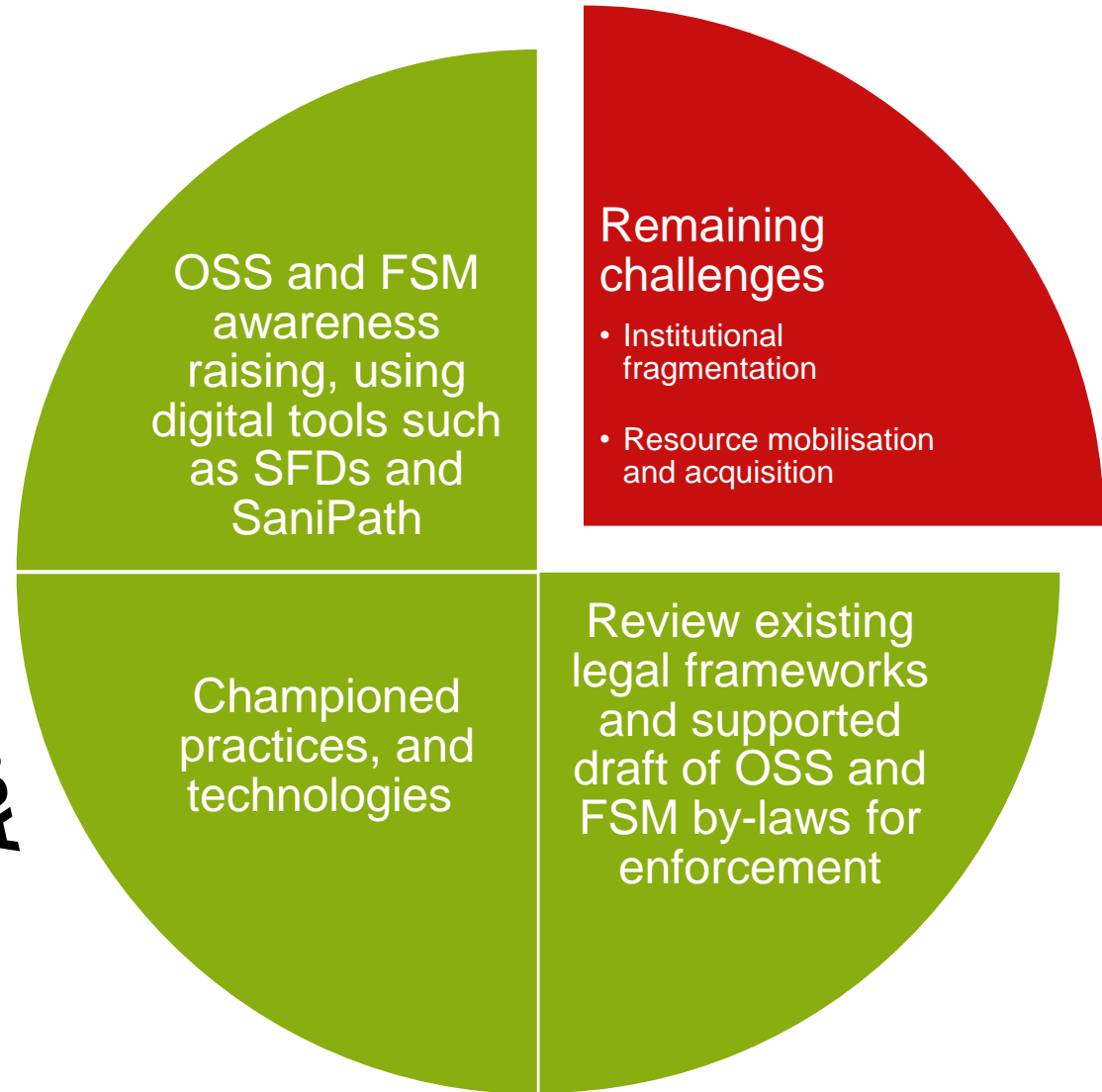
Focus Area 1. OSS and FSM Enabling Framework

Challenges

Previous strong focus on sewerage connection and unregulated FSM, non-existing standards for household toilets



Activities



Produced with support from the SP2-Thompson Initiative with funding from the Bill & Melinda Gates Foundation.
The SP2-Thompson Initiative recommends that this graphic is read in conjunction with the city's SP2 Report which is available at: slf.aunisa.org

Lessons learnt and recommendations

– Focus Area 1



Stakeholder coordination was key for ownership



Exposure to new ideas/concepts brought innovation



Need for clear processes for OSS and FSM service chain



Enforcement continues to be important



Digital sanitation tools, SaniPath and SFDs have been key

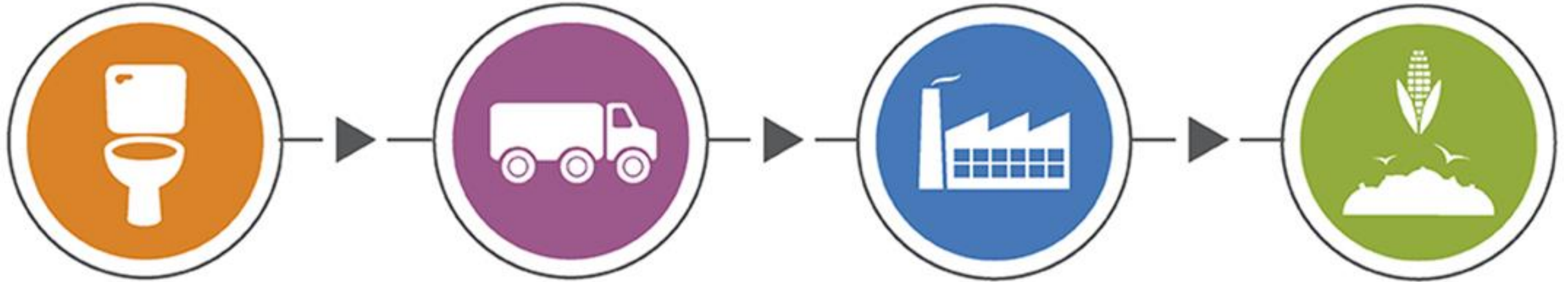


Capacity development, improved systems are important for sustainability



Cross-sectoral approach is necessary. Planning, housing, sanitation

Focus Area 2. Scaling up safely managed sanitation services



Challenges

- Lack of scaled up best practices and limited design solutions and systems
- Lack of data to inform systems and services design

Activities/interventions

- Detailed spatial mapping of facilities and users
- SFDs produced
- Pit-emptying technologies tested; Gulper, eVac, and Flexcravator

Remaining challenges

- Solid waste management
- Further development of shared data base between utility and local authority
- Planning beyond the LSP

Lessons learnt and recommendations – Focus Area 2



Visualisation of data is key to building consensus and awareness.



The need for standardised and emptyable toilet facilities



Capacity development across all departments of the utility is important for scaling up sustainable OSS and FSM



Further exploration of emptying technologies and bankable business models are necessary.

Focus Area 3. Workforce competencies and employability

Challenges

- Recruiting suitably qualified staff
- Lack of on the job training for the wide range of professions along the sanitation service chain.
- Funding for continued training remains a challenge, how to utilise the National Skills levy in utilities

→ Implementation of the Skills Advisory Group (ongoing key activity under RWS II)



Left: Skills Awards Graduates getting ready to receive their certificates at the 2019 awards ceremony
Right: Participants of the Skills Challenge held at the 2019 Zambian Water Forum and Exhibition



Lessons learnt and recommendations – Focus Area 3



Tailor made trainings are important to close the skills gap



Involvement of a broad range of stakeholders for course design is important for ownership and sustainability



Anchorage in national institutions means courses can be taken or recognised across the country

Focus Area 4. Sustainable financing and funding for OSS and FSM

Challenges

- Lack of usable and sustainable business models
- Low profitability of services, and lack of demand for the service
- Still a strong focus on sewerage, need for coordination of investment allocations and more focus on OSS & FSM



Recommendations - Focus Area 4



Stronger focus on understanding markets and viable accountability mechanisms for services.



Self financing potential has not yet been fully explored, particularly tariffs



There is still a great need for expansion beyond sewer connection, both nationally and internationally

Focus Area 5. Sanitation and climate

Challenges

Mitigation

Estimation that the water and sanitation sector contributes up to 15% of local GHG emissions

Limited data availability, especially on OSS and FSM.

Adaptation

Extensive flooding has a great effect especially on the population living in low-income areas

Increased droughts have an effect on power supply – relying on hydroelectric power

Activities

- Capacity development of LWSC, NWASCO and ZEMA to better monitor and report on **GHG emissions and energy efficiency** using the ECAM tool

Preliminary GHG emissions summary of LWSC (2018)

GHG emissions –		Kg CO ₂ eq / Assessment period	highest emission
Total GHG 210,743,534	Water supply (2,242,529 people) 198,528	Abstraction	96,169
		Treatment	5,492
		Distribution	96,867
	Wastewater (253,576 people) 45,262,606 untreated wastewater 15,551,007	Collection	3,540
		Treatment	1,811,5011
		Discharge/Reuse	27,496,558
		Containment	164,917,517
	Faecal sludge management (859,752 people) 165,282,400	Treatment	364,883
		Reuse/Disposal	0

Focus Area 5 - Lesson learnt/recommendations



Need for increased understanding of the link between sanitation and climate and to further align with Zambia's NDC reporting



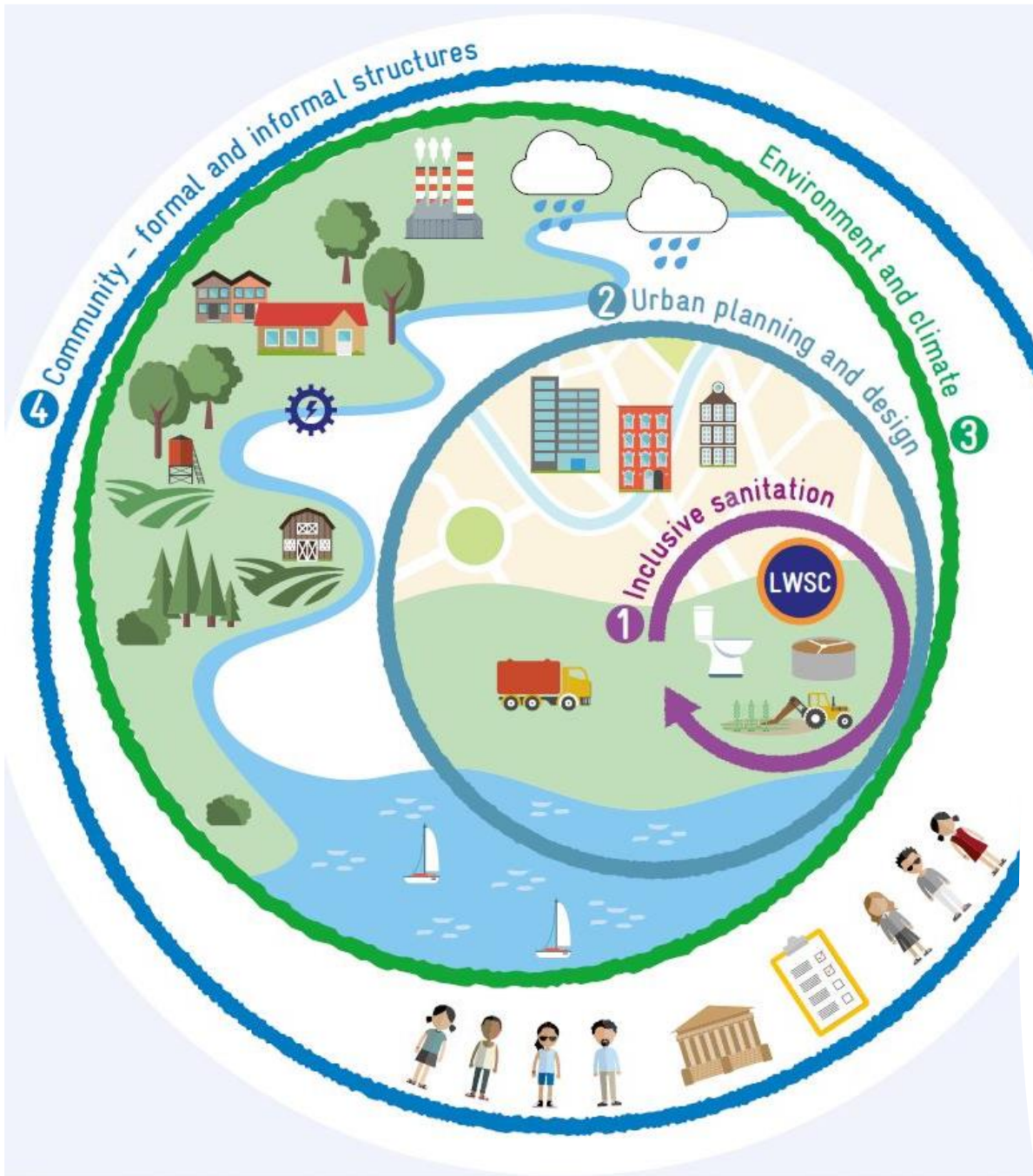
Need to integrate climate adaptation and mitigation measures into the sector



Need for developing consistent GHG monitoring and reporting mechanisms at all levels



Limited best practices available globally, however LWSC has produced a first ECAM baseline for 2018



Inclusive, green city sanitation framework

Based on:

- IWA 'Water-Wise Cities' Framework,
- 100 Resilient Cities 'Levels of Water Resilience'
- The GIZ-Scaling-up approach

This adaption sets out a framework for inclusive green city sanitation through four pillars:

- Inclusive sanitation
- Urban Planning and design
- Environment and climate
- Community - formal and informal structures

Introducing the Reform of the Water Sector Programme Phase two (RWS II)



- Builds on the experience and the cooperation of the first phase of the Programme and CFS-Lusaka.



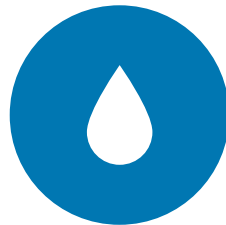
- September 2019 – December 2022



- Improving the conditions for transparent planning and implementation processes
- Competence development for professionals in the water and sanitation sector



Sector policy support



District WASH management in Luapula



Urban WASH and industrial wastewater management in Lusaka and nationally



Jobs and skills development in Lusaka, Luapula and nationally

Inclusive green city sanitation: concepts and key lessons from Lusaka



Managing sanitation is a significant departure from business as usual



Investment in data pays



Stakeholder coordination takes time



The sanitation service chain is critical



Training frontline sanitation workers enhances professionalisation and formalisation of FSM



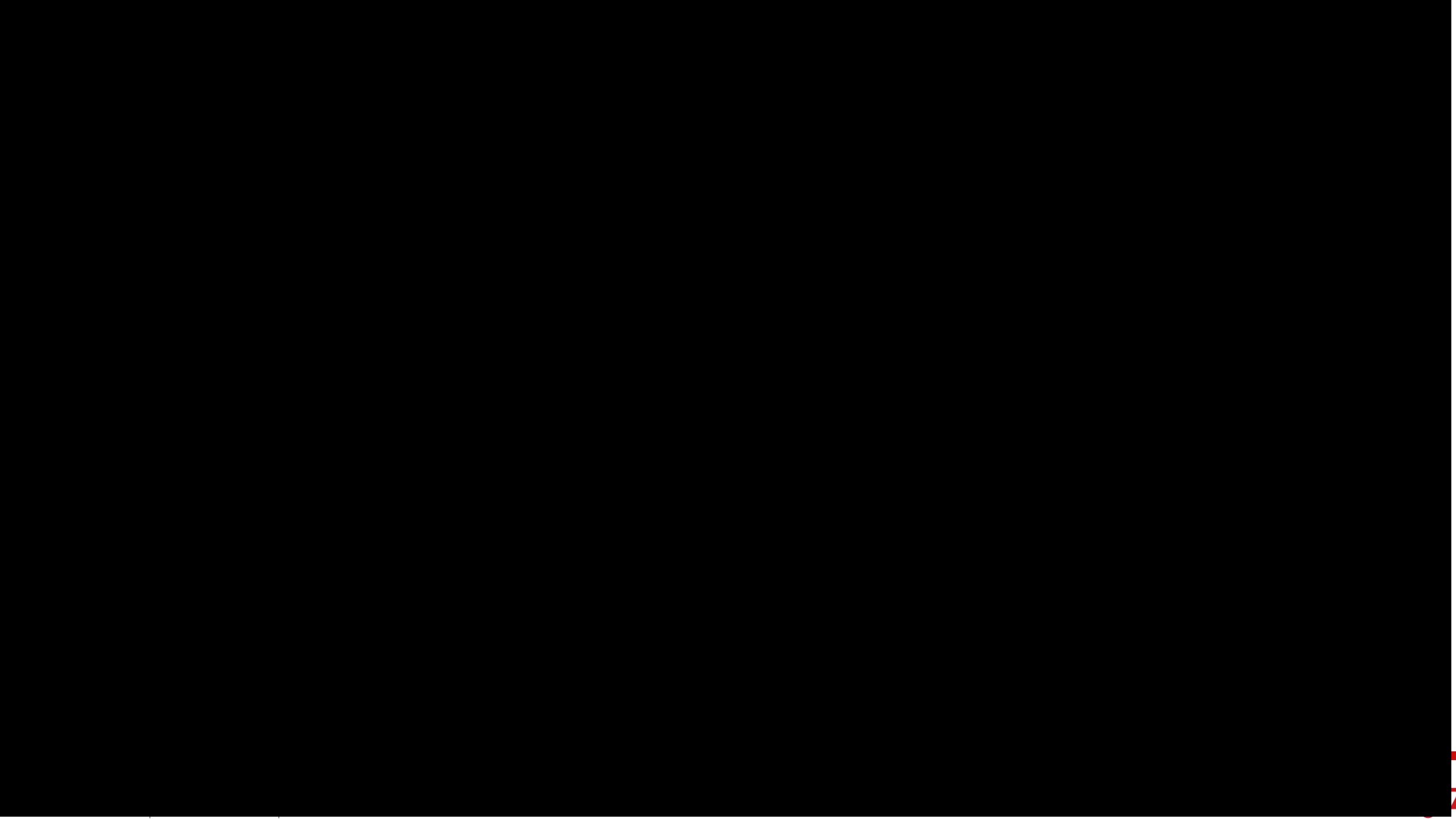
Understanding markets and adapting funding and financing mechanisms is essential



Benefits of improved sanitation are shared and arguable so should the costs be



Investing in climate resilient infrastructure protects service provision





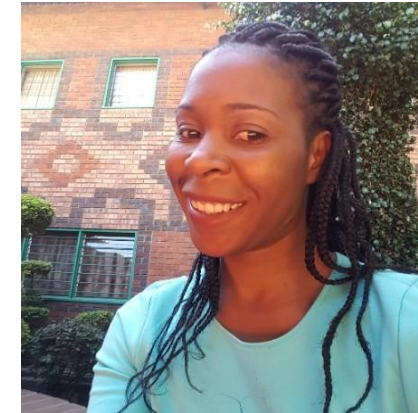
Panel discussion



Lusaka Water Supply and Sanitation Company: Jonathan Kampata, Managing Director



Lusaka City Council: Edgar Mulwanda, Director Public Health Department



National Water Supply and Sanitation Council: Chola Mbilima, Senior Inspector

Closing Remarks

Peter Kammerer
Water & Energy Cluster Coordinator
GIZ Zambia

