Onsite Training Programme on

"Planning and Designing of Faecal Sludge Management Systems"

(September 16-18, 2025)









PROMOTING SUSTAINABLE FSM IN SOUTH AFRICA

A PARTNERSHIP PROGRAMME ON SANITATION AND WASTEWATER MANAGEMENT

September 13-25, 2025. South Africa

TRAININGS • FIELD ASSESSMENTS • MEETINGS • ACTION PLANNING

Participation only by invitation For more info visit: www.cseindia.org

Session Title: Interpretation of SFD- Newcastle & Jo Gqabi

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Presentation Structure

- Why are we doing the interpretation-Purpose
- Basics of reading a Shit Flow Diagram
- Basic structure of a SFD
- Dismantling Newcastle SFD
- Dismantling Jo Gqabi SFD
- Discussing interventions and actions
- Summary



<u>Purpose-Why are we understanding to interpret SFD?</u>

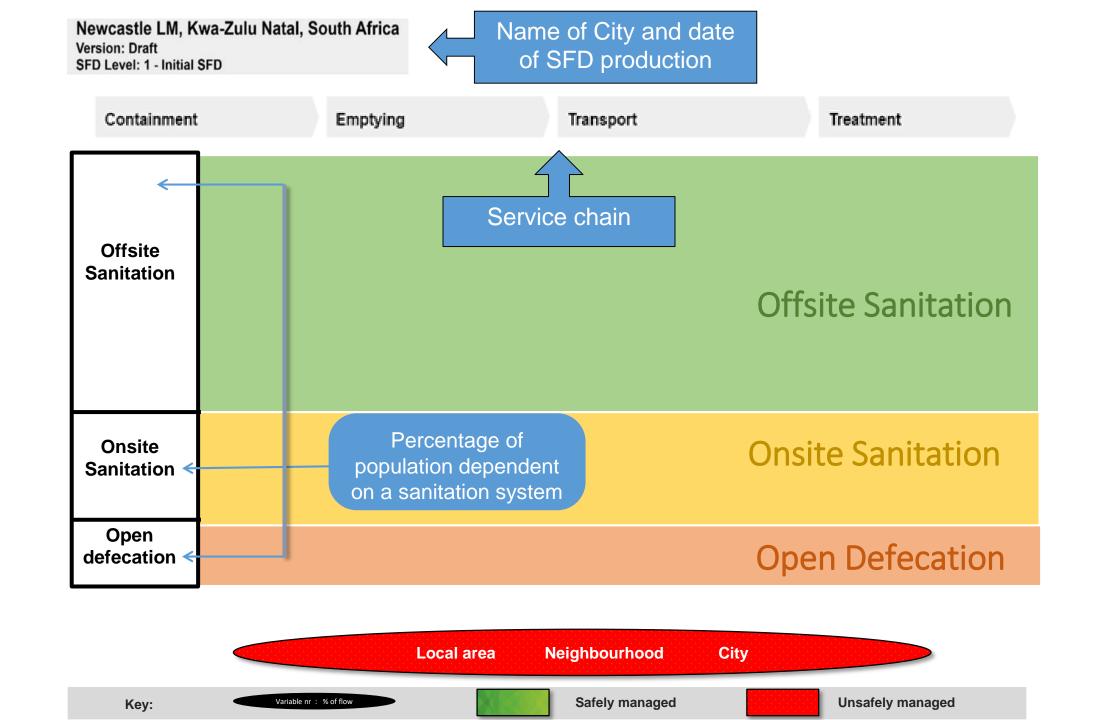
- To develop a common understanding on interpretation of SFD
- To understand the scenario of excreta and wastewater management in both municipalities
- To visualize the interventions required to improvise the situation at ground.
 - What could be the immediate actions or interventions
 - What could be the long term interventions
- Discussions



How to Read SFD

- Please read the SFD along with the Narrative Report
- The red colour denotes unsafe management and green colour denotes safe management
- The width of the arrow depends on the corresponding percentage
- Percentage mentioned on the diagram refers to the contributing population and not volume of excreta
- The supernatant is effluent from the septic tanks

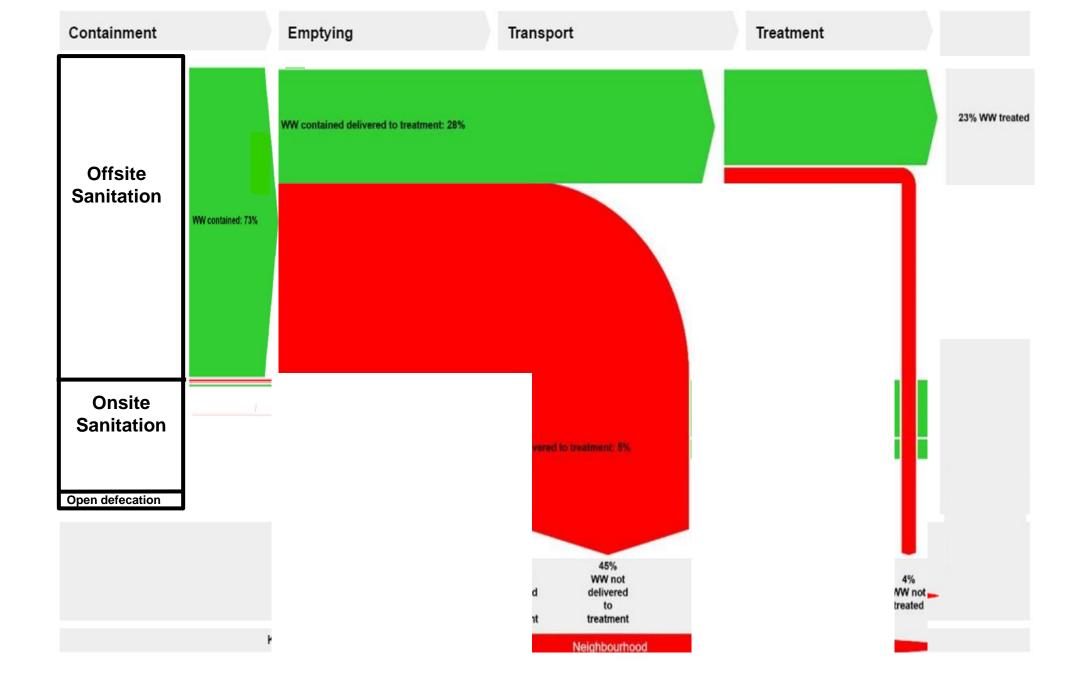




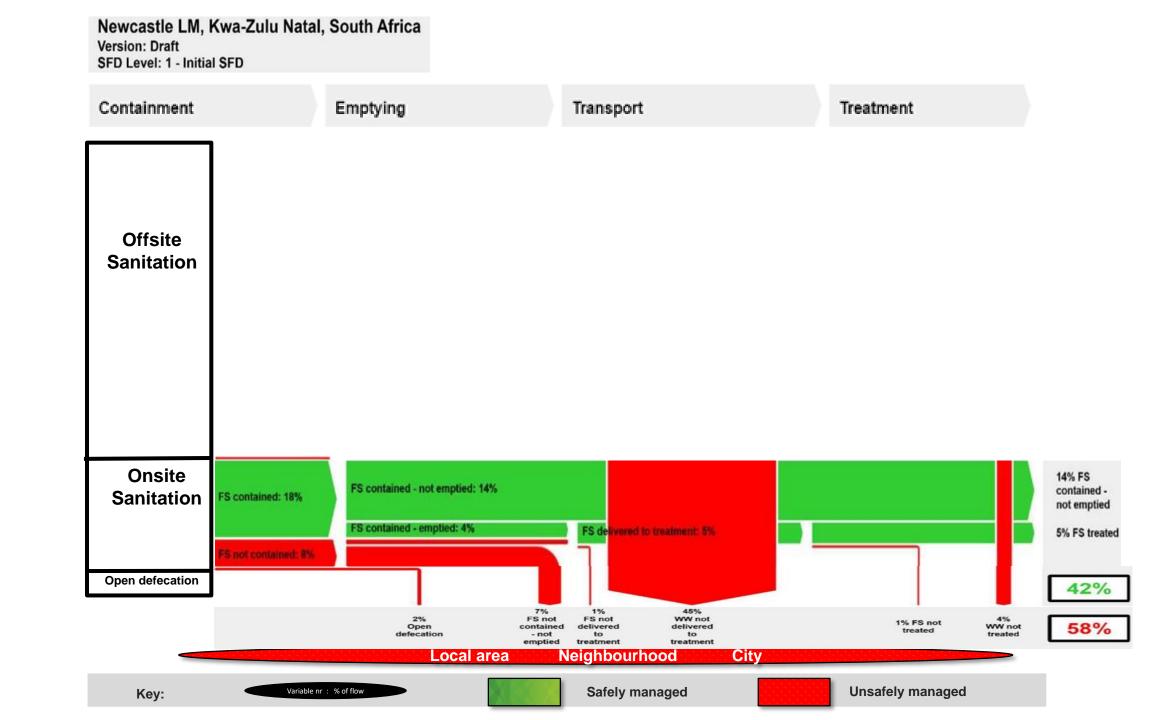
Version: Draft

SFD Level: 1 - Initial SFD

Containment Emptying Transport Treatment Red or Green: Whether the arrows would be red or green is dependent on whether the system at that stage is contained or not. Offsite **Sanitation Contained:** Sanitation Technology and/or system which ensures WW contained: 73% safe level of protection from Excreta i.e. pathogen transmission to the user or general public is limited. **Not Contained:** Sanitation technology and/or system which does not ensure safe level of protection from Excreta. i.e. pathogen transmission to the user or general public is likely. **Onsite** FS contained: 18% Sanitation WW: Waste Water FS: Faecal Sludge Open defecation SN: Supernatant Local area Neighbourhood City /ariable nr : % of flov Safely managed **Unsafely managed** Key:





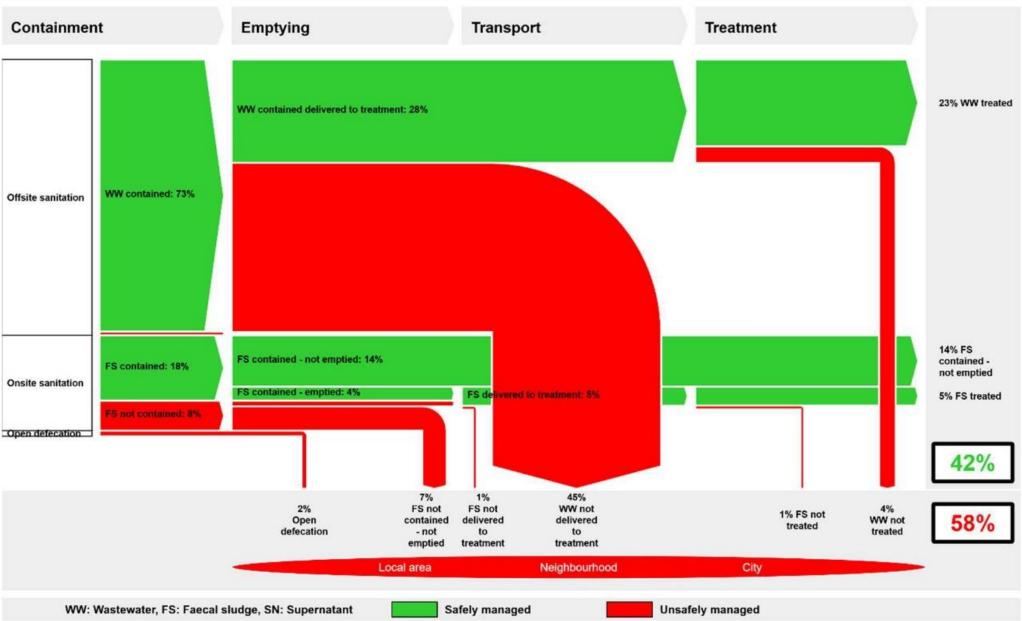


Newcastle LM, Kwa-Zulu Natal, South Africa

Version: Draft

SFD Level: 1 - Initial SFD

Date prepared: 20 Feb 2025
Prepared by: Sakshay Harilal

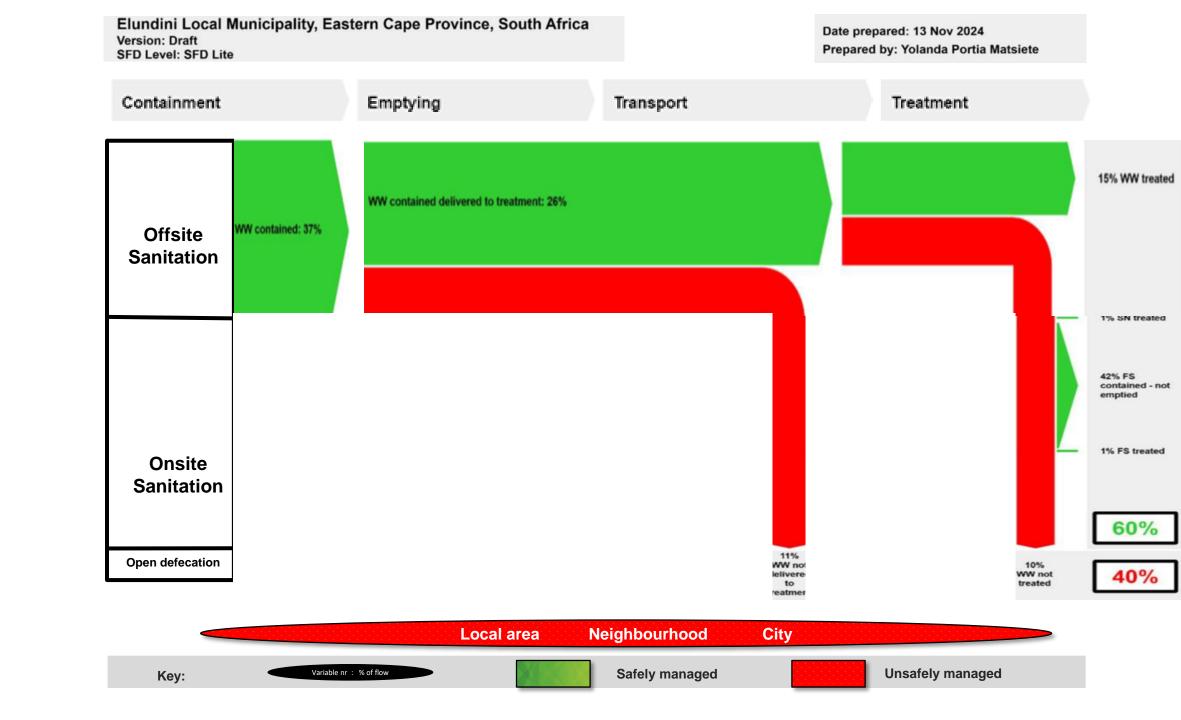




What could be immediate actions or interventions?

- www.menti.com Open
- Code:





Elundini Local Municipality, Eastern Cape Province, South Africa

Version: Draft SFD Level: SFD Lite Date prepared: 13 Nov 2024

Prepared by: Yolanda Portia Matsiete





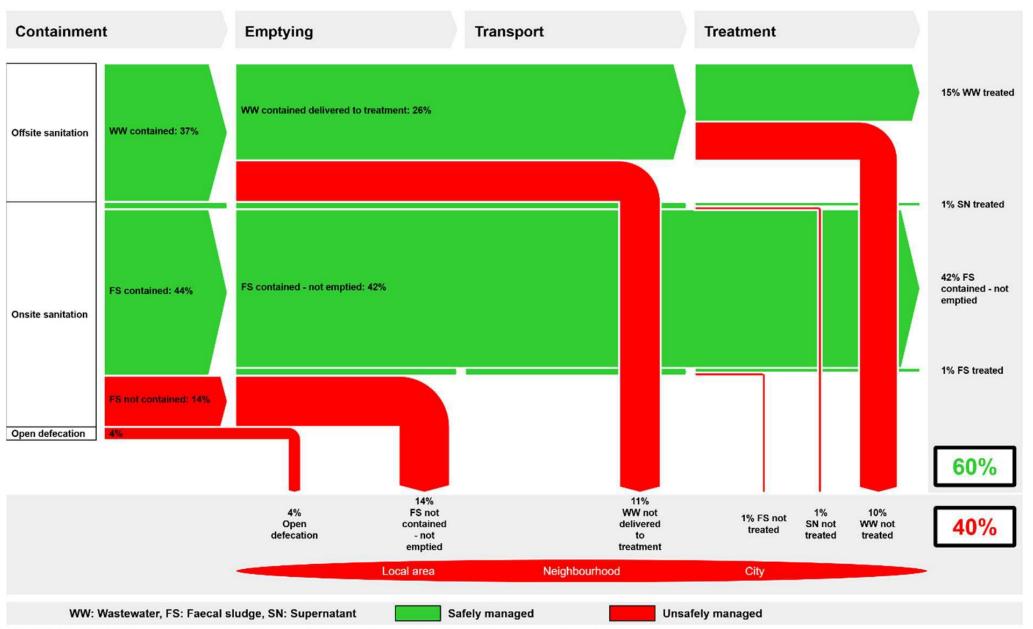
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What could be immediate actions or interventions?

 https://www.menti.com/al yzkpzvrj3g Open

• Code: 2425 0161

Or Use QR Code on right





Summary

- SFD a great tool to understand baseline excreta and wastewater management in town/city/province
- Newcastle
 - Has challenges in wastewater treatment-current SFD tells that mostly (~75%) is dependent on offsite but safe management is happening only for ~20%
 - OSS is not much but management of FS is required
- Jo Gqabi
 - Needs OSS ~60% but most of the contents are not emptied.
 - ~40% population dependent on offsite of which only 15% is being managed safely



THANK YOU

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