Towards Citywide Inclusive Sanitation for Improved Sanitation Services in South Africa

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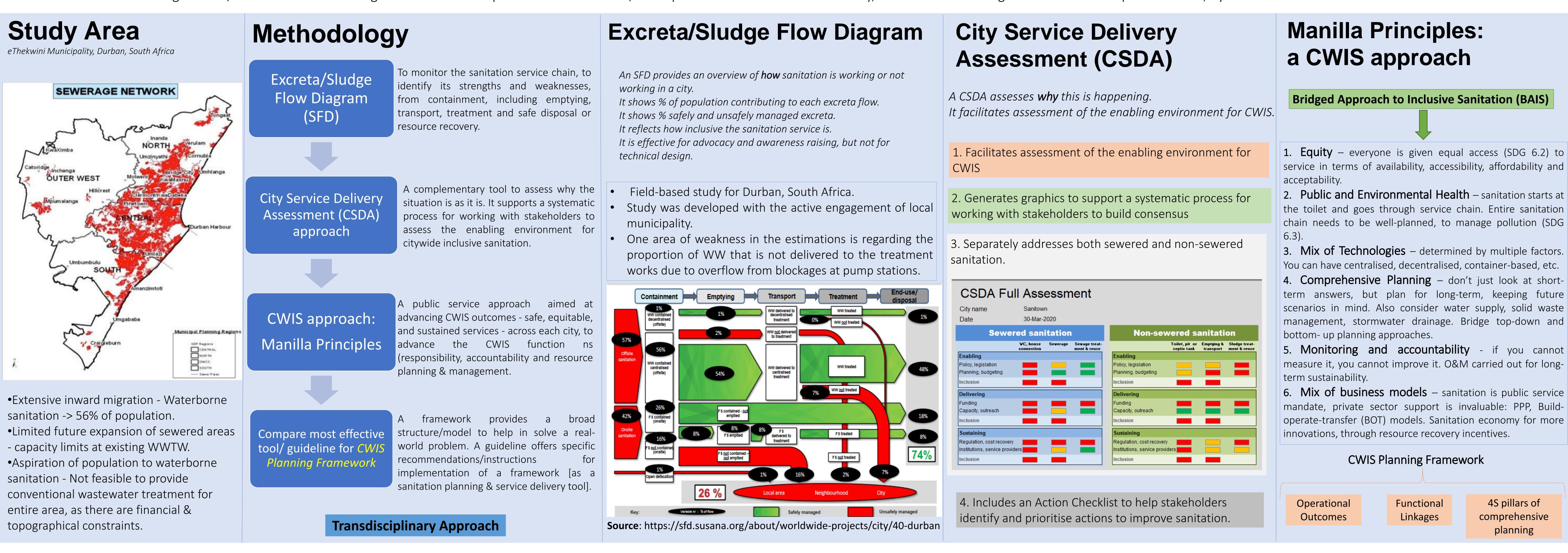
Brief overview

Citywide Inclusive Sanitation (CWIS) is an approach to urban sanitation, where all members of the city have equitable access to adequate and affordable improved sanitation services through appropriate systems of all scales (sewered & non-sewered), without any contamination to the environment, along the entire sanitation value chain. This study, using a major municipality in South Africa as the study site, looks at the CWIS service framework for improved sanitation service delivery. A conceptual framework would be developed that looks into how transitioning to a circular sanitation economy – through resource recovery - is in line with the Sustainable Development Goal 6.

Research question: Can the citywide inclusive sanitation and circular economy approach be applied to manage the sanitation crisis in South Africa, for service delivery improvement?

Objective

Produce the most effective guideline/tool for a CWIS Planning Framework development for South Africa, for improved sanitation service delivery, in line with achieving Sustainable Development Goal 6, by 2030.



Concluding Remarks

A combination of decentralized and centralised wastewater treatment will help the Municipality to provide better services and faster, to be context-specific. Adherence to discharge limits ensures protection of the public and environment. Cost-effective options are required, with minimal operational and maintenance activities.

In summary, a framework provides a broad structure or model, while guidelines offer specific recommendations or instructions for implementation. Develop a novel planning methodology for CWIS in both the global and South African context. How can we plan CWIS by bridging top-down and bottom-up approaches? End product = novel CWIS Planning Framework for South African cities.

To prove robustness of framework for other types of South African cites, the developed tool will be implemented to assess the sanitation in smaller and under-developed towns as a Planning Tool for long-term sustainability, as we head to 2030.





