

SESSION 14:

SANITATION TRANSFORMATION INITIATIVE

Chair: Vuyo Zitumani (Amatola Water) | Venue: Ballroom 4

Sanitation is a national and global development priority and is included in United Nations Sustainable Development Goal (SDG) 6. Current implemented models of sanitation provision are not able to deliver sustainable sanitation services to all within the limited development timeframes. The Sanitation Transformation Initiative (SANITI) is a WRC-designed strategic approach designed to create a new paradigm for sanitation services through innovative technologies and approaches. The technical focus of SANITI will be non-sewered sanitation that moves away from the current linear design approach of collecting, transporting and treating municipal to the development of innovations and models that promote cost-effectiveness and longevity of infrastructure investment, and introduces circular economy principles which promote reuse, recovery and recycling through the sanitation value chain. The technical focus will need to be accompanied by the development of institutional and municipal financial, planning, management, social and communication models that align to the objectives of SANITI in order for this new form of service delivery to achieve critical mass. The final component of SANITI will focus on the development, application and evaluation of business plans for the dual purpose of income generation and sanitation provision. This will include market research and analysis, financing arrangements, business legislation analysis, product and service development; business management, and financial planning associated with new sanitation models.

SANITI has the potential to address the limitations of current sanitation interventions. These include accelerating sanitation provision through innovative technologies and approaches; minimising health risk through use of toilets; recycling / re-using limited resources, meeting user experience and acceptance; minimising environmental pollution; and the potential to link sanitation infrastructure to additional revenue streams from the valorisation of faecal wastes. This session will therefore focus on showcasing current and past WRC-supported research, development and innovation products that align to the new sanitation services paradigm.

PROGRAMME

11:00 – 11:30	Development of the Brow Drop Framework: How Shit Flow Diagrams can assist with municipal sanitation planning and management	Unathi Jack (Emanti Management)
11:30 – 11:50	Piloting an appropriate school sanitation management model for cleaner rural school ablution facilities	Jeanette Neethling (PID)
11:50 – 12:10	Can we convert our toilet waste into value-add products? Developing a re-engineered toilet	Reneiloe Seodigeng (BAAS Technology and Consulting)
12:10 – 12:30	The Engineering Field Testing (EFT) programme in eThekweni – Lessons	Chris Buckley (UKZN)
12:30 – 12:45	Discussion and closing remarks	