

WASTE KHORO 2019: Asbestos and Land Remediation Summit 18-20 September 2019

"Good Green Deeds towards a Recycling Economy and Sustainable Land Remediation"



Supporting South Africa in the transition to alternative waste treatment (AWT) technologies

FEEDBACK SESSION – 20 SEP 2019



environmental affairs

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Proposal: A Waste Technology & Innovation Centre

- A national **Waste Technology and Innovation Centre** (WTiC) to -
 - Reduce the risk of implementing **Alternate Waste Treatment** (AWT) technologies
 - Improve **decision-making** through access to independent, technical evidence and advice
 - Provide a service of **evaluating** in-bound and local AWT technologies, by means of a well-coordinated network of local (and possibly international) specialists (**technology verification**)
 - Through collaboration with industry and government partners, demonstrate and localise technologies (**technology demonstration and localisation**)
 - Partner with industry, business and academia to take early stage technologies to market (**technology deployment**)



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INTERACTIVE DISCUSSION

Topic 1: Status Quo

Topic 2: Waste Technology and Innovation Centre



Topic 2: Status Quo

What alternative waste treatment (AWT) technologies are you currently using to manage MSW?

- 1.2 What is your organisation's strategy for implementing AWT Technologies?
- 1.3 Are there any processes currently underway to employ AWT Technologies (e.g. anaerobic digestion, recycling, composting, incineration, etc.)?
- 1.4 How many sales requests/year do you receive from vendors of AWT Technologies?
- 1.5 What are your current challenges in trying to choose and/or implement a particular AWT Technology?
- 1.6 Are you using any independent waste technology verification agency or expert?



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Topic 2: Waste Tech & Innovation Centre

In what ways can a Waste Tech Centre help you to practically overcome the challenges identified above - or not?

- 2.2 Are there any obstacles where you think such a Tech Centre may make things more difficult for you (as opposed to helping)?
- 2.3 What kind of technical assistance would you require to help you make decisions on AWT Technologies?
- 2.4 When in the process would you need this assistance? (e.g. Early Scoping, Developing Municipal Strategy (IWMP/IDP), Feasibility Study, Procurement Specification, Bid Evaluation, etc.)
- 2.5 Are there any issues regarding SCM, MFMA, MSA or other legislative/regulatory obstacles you envisage in receiving support from the Centre?
- 2.6 What Research & Development services would you like to see at a Waste Tech Centre that would assist in the uptake of AWT technology and innovation at your own municipality?



Feedback on Current Situation

- **Lack of technical capability** within municipalities to assess alternative waste treatment (AWT) technology options proposed by vendors
- **Lack of independent techno-economic analysis** of AWT technologies to inform decision making
- **Bureaucracy** (MFMA) and regulations slow down the deployment of AWT technologies
- AWT technology **not part of most IDP/IWMP** (Integrated Waste Management Plans)
- **Financial challenges**
- Current “imported” technology often **not appropriate** to local waste management challenges or **no local capability to support** post implementation – AWT technology end up standing idle



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Feedback: Expectations of WTiC

The proposed WTiC is a welcome initiative, especially to:

- **Verify and accredit** AWT technology options that meet local conditions
- Assist with **technical capacity building** with municipalities to operate and maintain AWT technology
- **Advise** on the feasibility (techno-economic-commercial-risk) aspects of specific AWT technology
- Streamline regulations/legislation to **fast track deployment** of AWT technologies
- Provide a **central body of knowledge** for information on AWT technologies
- Establish **demonstration** sites for AWT technologies
- Consider AWT technologies that offer and include **opportunities for SMMEs**
- **Access funding** for AWT technology deployment
- Develop **home-grown or localize** imported AWT technologies
- **Support full life-cycle** of technology adoption (needs analysis, feasibility, procurement, deployment and post-commissioning support)

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SUGGESTED RESOLUTION

“Stakeholders recognise the need for support in the implementation of appropriate alternative waste treatment technologies in South Africa. Support which is acknowledged can be provided by an independent, accessible and affordable Waste Technology and Innovation Centre”

Acknowledging that “implementation” includes all support from needs analysis to post commissioning