

THE WASTE RESEARCH, DEVELOPMENT AND INNOVATION (RDI) ROADMAP FOR SOUTH AFRICA (2015-2025)

TECHNOLOGY SOLUTIONS FOR ADDRESSING WEEE



Presented by: Dr Linda Godfrey
Occasion: Industry-meets-Science
Date: 8 March 2016



science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA

INDUSTRY meets
SCIENCE Waste Sector

Purpose of this workshop

- Bring industry and research community together to -
 - Further identify the **key issues** facing industry wrt WEEE recycling (*ensure RDI is relevant to industry*)
 - Jointly shape **research priorities**
 - Strengthen RDI **collaboration** between industry and R&D community
 - Support **uptake** of RDI outputs by industry

Relevant RDI

Innovative RDI

Partnerships

Capability (market readiness)

Table 7. Waste Types

	Waste Types																																					
	General and unclassified waste streams													Hazardous waste streams																								
	Municipal waste	Commercial and industrial waste	Brine	Fly ash and dust	Bottom ash	Slag	Mineral waste	Waste of Electric and Electronic Equipment	Organic waste	Sewage sludge	Construction and demolition waste	Paper	Plastic	Glass	Metals	Tyres	Other	Gaseous waste	Mercury containing waste	Batteries	POP Waste	Inorganic waste	Asbestos containing waste	Waste Oils	Organic halogenated and /or sulphur containing solvents	Organic halogenated and/or sulphur containing waste	Organic solvents without halogens and sulphur	Other organic waste without halogen or sulphur	Tarry and Bituminous waste	Health Care Risk Waste	Miscellaneous	Radioactive/Nuclear waste						
Cape Peninsula University of Technology	■			■											■																							
University of Cape Town	■	■	■	■		■	■		■			■	■		■		■						■															
Central University of Technology	■	■		■					■		■	■	■	■		■						■										■	■					
Durban Institute of Technology																																						
University of Fort Hare																																						
University of the Free State																																						
University of Johannesburg	■														■																							
University of KwaZulu-Natal	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
University of Limpopo	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Mangosuthu University of Technology																																						
Nelson Mandela Metropolitan University																																						
North-West University									■							■																				■		
University of Pretoria																																						
Rhodes University																																						
University of South Africa																																						
University of Stellenbosch	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Tshwane University of Technology	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Vaal University of Technology																																						
University of Venda																																						
Walter Sisulu University																																						
University of the Western Cape		■	■	■				■				■	■	■	■							■	■															
University of the Witwatersrand																																						
University of Zululand																																						
CSIR	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
HSRC																																						
Mintek		■		■		■	■	■							■	■					■		■															

Research activity level	8	8	5	8	4	5	5	5	9	5	4	6	6	6	6	6	3	4	3	5	3	4	3	2	2	3	2	2	3	3	3	3	3	3	2
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Outline of the workshop

- Programme for today -
 - Invited representatives from industry (morning) and academia (afternoon) presenting on
 - Current **challenges** and **obstacles** facing WEEE recycling in South Africa
 - **Opportunities** for increasing WEEE recycling in South Africa
 - Current **gaps** in knowledge – what don't we know
 - Afternoon discussion sessions

Relevant RDI

Innovative RDI

Partnerships

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www.wasteroadmap.co.za



Waste RDI Roadmap

Outlines the proposed interventions, progression paths and the related instruments, and the required RDI investment over time



Trends

Describes the local and global trends in waste management and approach adopted in arriving at the priority waste streams for the Roadmap



Capabilities

Maps the nature, availability and maturity of waste RDI capability and capacity in South Africa



Opportunities

Provides an overview of the Market Opportunities we see, how attractive they are and what is required to realise them

Additional information

- All outputs of today's workshop will be available online at www.wasteroadmap.co.za
- The State of Green Technologies in South Africa Report available on ASSAf website
- <http://www.assaf.co.za/wp-content/uploads/2015/01/8-Jan-2015-WEB-526305-ASSAF-Green-Tech-mail.pdf>

