

South African support for Africa-EU waste management road map



science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA

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National Waste Management Strategy (NWMS)

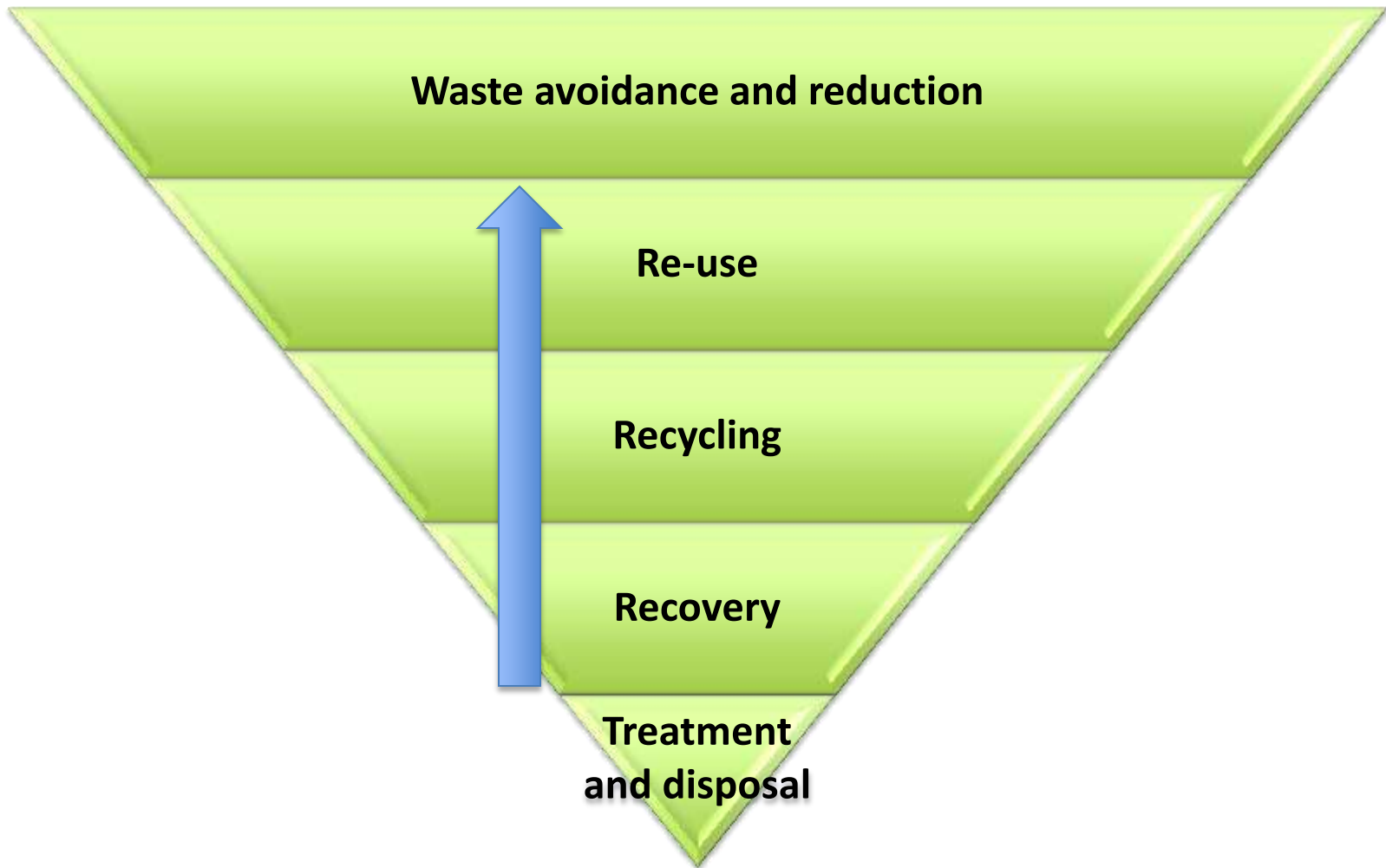
- The NWMS is a legislative requirement of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), here after referred to as the “Waste Act”.
- The objective of the NWMS is to achieve the objects of the Waste Act.
- No formalised Waste research, development, and innovation work programme
- African 10-year research and development strategy includes waste management as an area of focus



Joint Statement on AU-EU workshop on waste

- Waste is a valuable resource,
- Waste management is a shared challenge,
- Research and innovation is essential to unlock the potential for waste management,
- Opportunities for cooperation between Africa and the EU exist and go beyond technological innovation,
- The cooperation should involve a multi-stakeholder approach: governments, private sector, municipalities, academia and citizens.

Waste Hierarchy



Source: National Waste Management Strategy, DEA, 2011



Key R&I issues

- Top two constraints to waste innovation
 - funding to do things (financial) as well as the current price distortions which make landfilling cheaper (economics),
 - policy/legislation which constrains innovation, e.g. definition of waste, approach to managing waste based on risk rather than waste-as-resource.
- Lack of adequate funding for waste research
 - Minimum spend approx. 0.33% of the value of the waste sector, approx. €3.5Million (2012)
 - Constrains local technology development opportunities



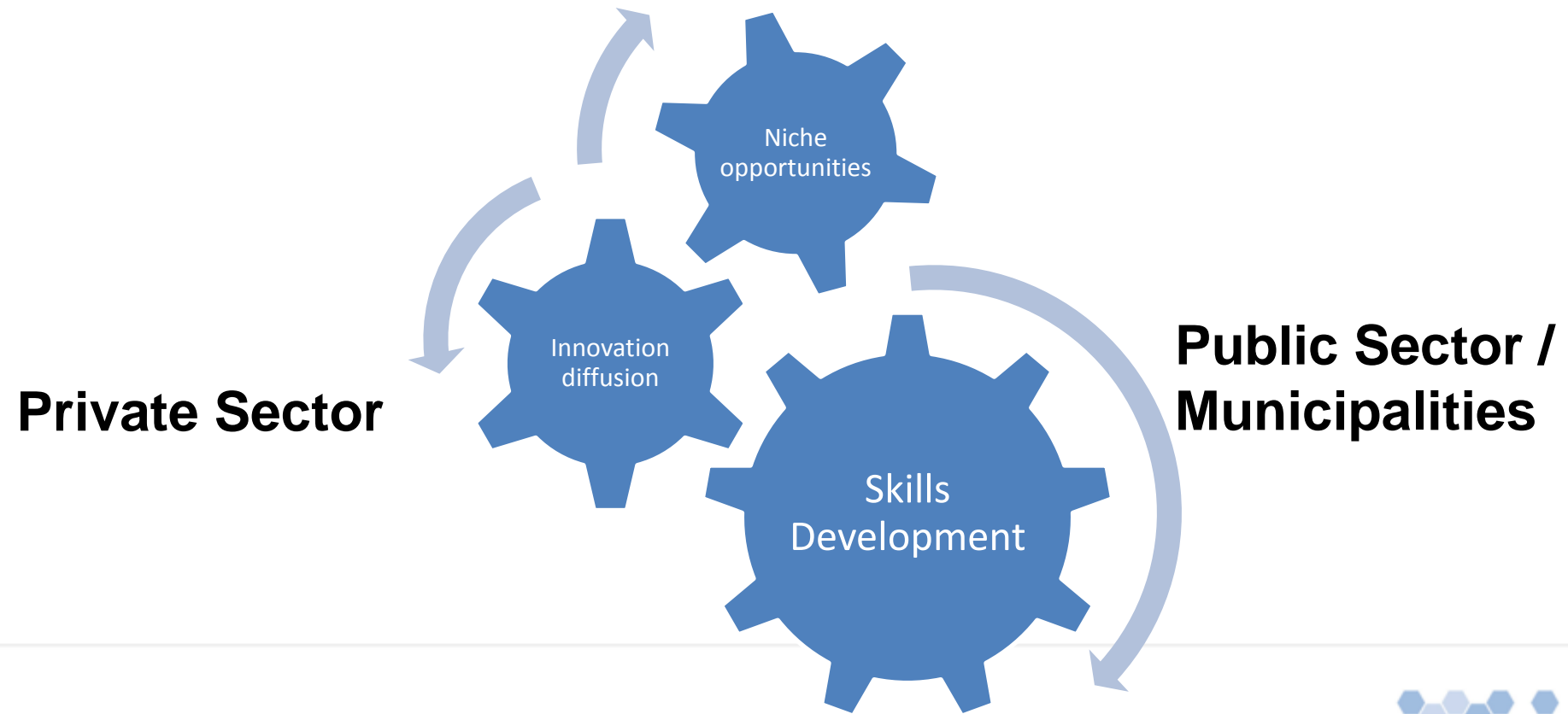
Key R&I issues

- The strategic waste R&D opportunities are currently being mapped by DST as part of the development of the Waste RDI Roadmap
- With limited RDI funding, focus must be on priorities to SA
- Early suggested areas -
 - Mining and power generation waste
 - Waste metals recovery (mining waste, e-waste)
 - Packaging waste
 - Agricultural and food waste

Waste RDI Roadmap

Goal of the Waste RDI Roadmap:

“The South African waste sector can achieve a 20% reduction (by weight) in industrial waste and a 60% reduction (by weight) in domestic waste, to landfill by 2022”





Key R&I issues

- Kinds of innovations
 - Need for both technological and social innovations
 - Developing country context, social context and acceptance of technologies crucial
- Stakeholders to be included
 - Strong focus on supporting the private waste sector
 - Waste sector survey (2012) shows private sector is playing an important role in innovation
 - Support increased private sector spend on R&D
 - Key to moving waste management up the hierarchy (SA currently landfills 90% of its waste)



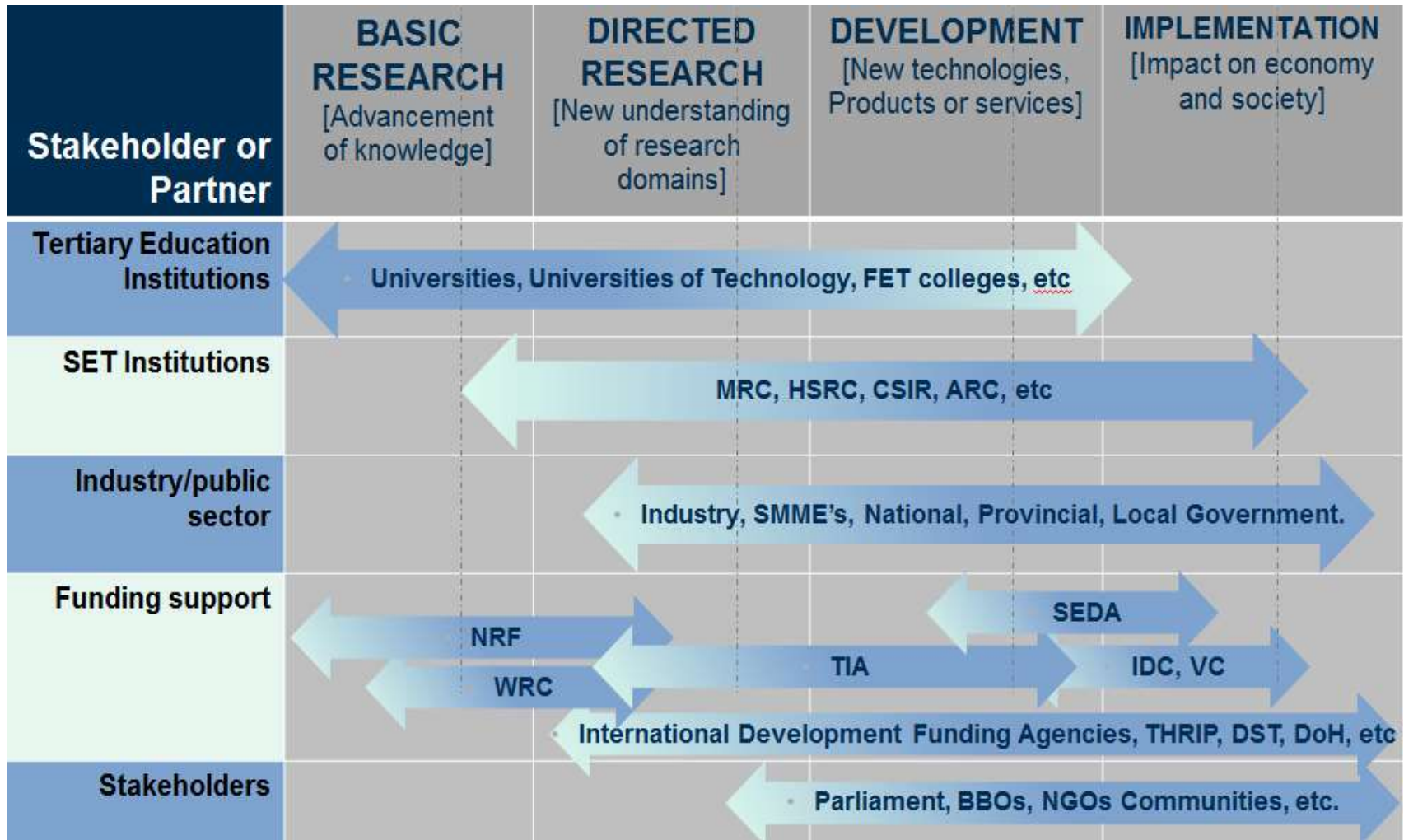
Support mechanisms / instruments



Waste RDI Roadmap

- South African Waste Research, Development and Innovation Roadmap
 - A 10 year plan to guide the investment in waste RDI in SA
- The Roadmap will focus on -
 - Product, process & organisational innovation
 - Funding requirements
 - Skills development

Government initiatives





Dankie

Enkosi

Ha khensa

Re a leboga

Ro livhuwa

Siyabonga

Siyathokoza

Thank you



CONTACTS

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