

Design for Recycling Indaba

WWF approach to problematic plastics & design for circular economy

Lorren de Kock, WWF- SA <u>13 March 2019</u>

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O John Duncan: Oceans of Plastic

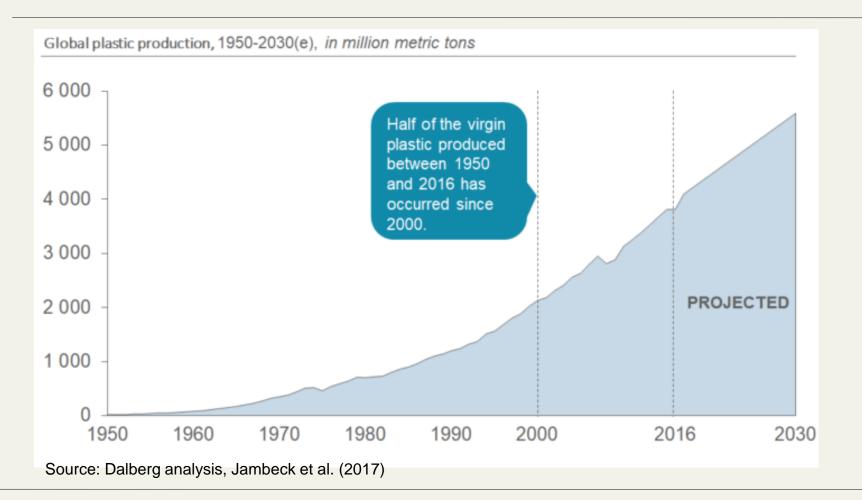


Agenda

Scale of plastic pollution and problematic plastics in South Africa
Global and local approaches
Design for circular economy

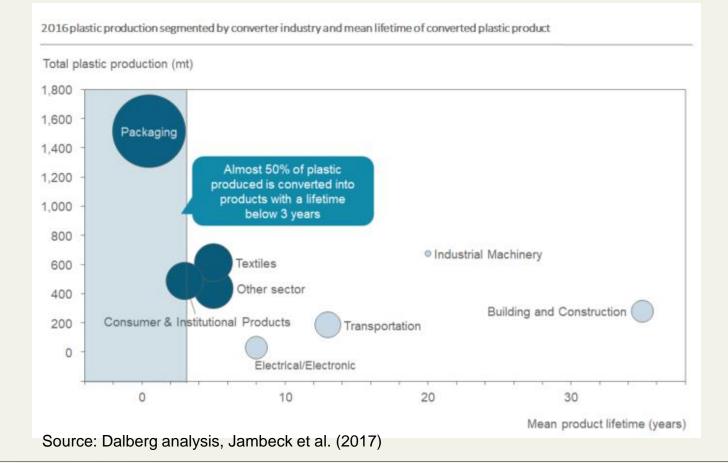


Scale and sources of plastic pollution Global





Scale and sources of plastic pollution Global

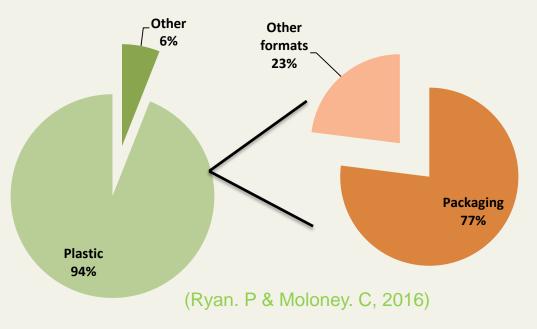




Scale and sources of plastic pollution South Africa

- Ranked 11th globally for marine plastic pollution
 - High per capita plastic consumption (2 kg per day) & 56% of waste is mismanaged.

(Jambeck et al., 2015)

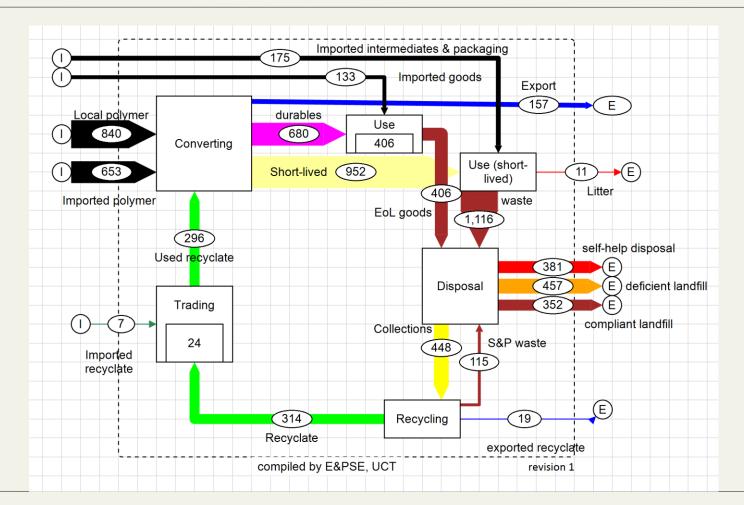


17%

Average recycled content in plastic products (von Blottnitz & Chitaka, 2018)



Materials Flow Analysis South Africa





Problematic plastics South Africa





Linear plastics economy

Summary of failures across plastic life cycle driving plastic pollution



Source: Dalberg analysis, Jambeck & al (2014), World Bank (2018), SITRA (2018)

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Global and local approaches: Global initiatives

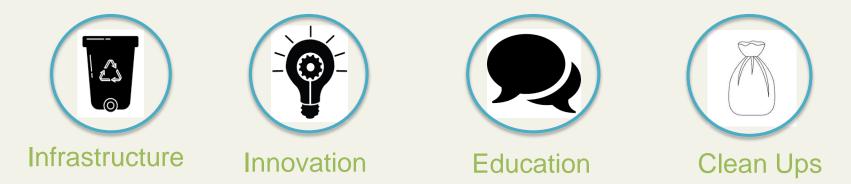
New Plastics Economy Global Commitment: guidelines and support for local initiatives/pacts (UK Plastics Pact)





Global and local approaches: Global initiatives





Stakeholders across the value chain: chemical and plastic manufacturers, consumer goods companies, retailers, converters, and waste management companies

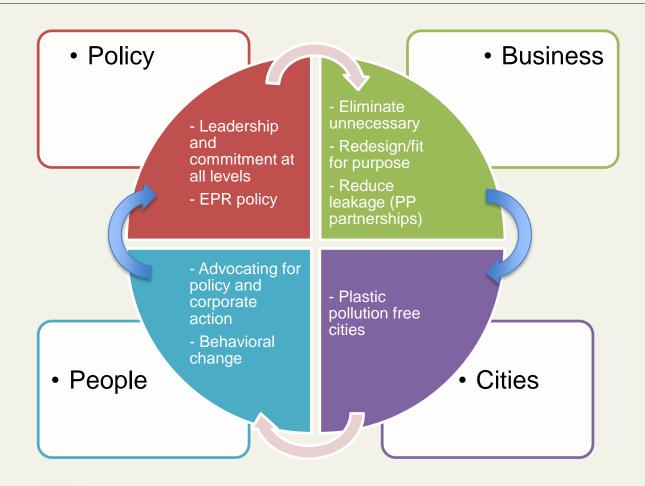


Global and local approaches: Local initiatives

National	Industry
Ban and levy on plastic carrier bags	Voluntary support for current PROs
Image: With the end of	 Plastics SA: beach clean ups; Sustainability council Bioplastics forum.
Working on Waste	Initiatives proposed in IWMP



WWF Plastics strategy: multi stakeholder systems approach





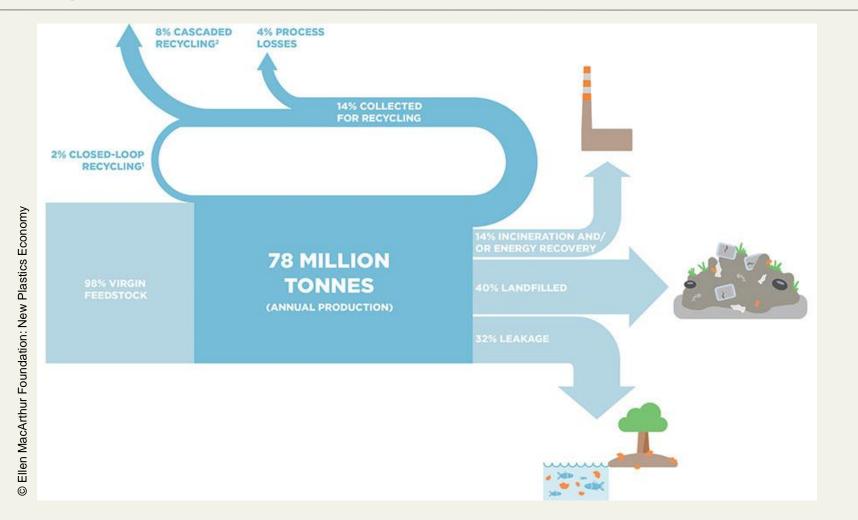
WWF Plastics strategy: multi stakeholder systems approach

WWF (global and local) approach:

- Policy instruments: regulatory and economic instruments (levies on suppliers, retailers and consumers);
- Private-Public partnerships and voluntary agreements;
- Waste management improvement and circular thinking;
- Social awareness and public pressure;
- Investment and support for alternatives: packaging redesign, recycled content.



Design for a circular economy?



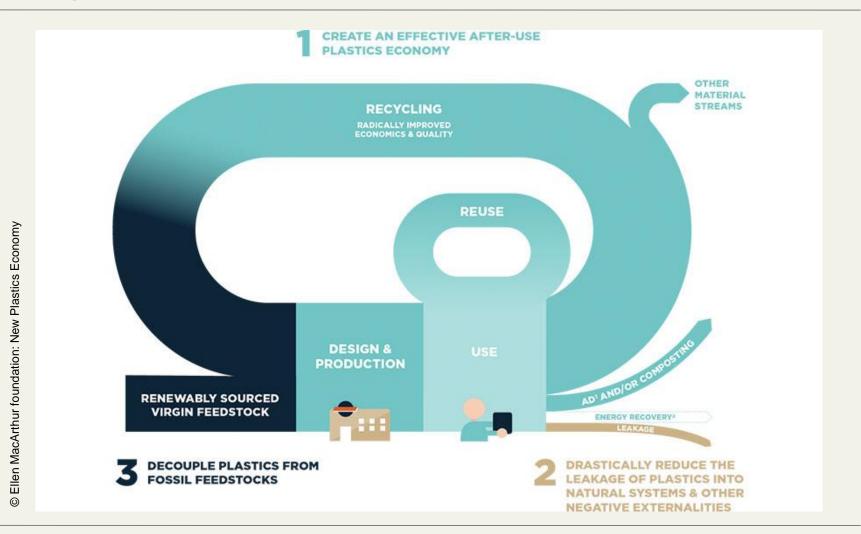


Design for a circular economy?





Design for a circular economy?





Conclusions

- Solutions that embrace diversity, complexity, systems understanding & resilience.
- 2. Plastics waste exploded and driven by citizenry feeling powerless to bigger issues: climate change, poverty.
- 3. We can respond now. Intent ----- Action



Thank you

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