

WASTE RDI ROADMAP FOR SOUTH AFRICA

“BIOPLASTIC OPPORTUNITIES FOR SOUTH AFRICA”



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science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA

CSIR
our future through science



A round table discussion

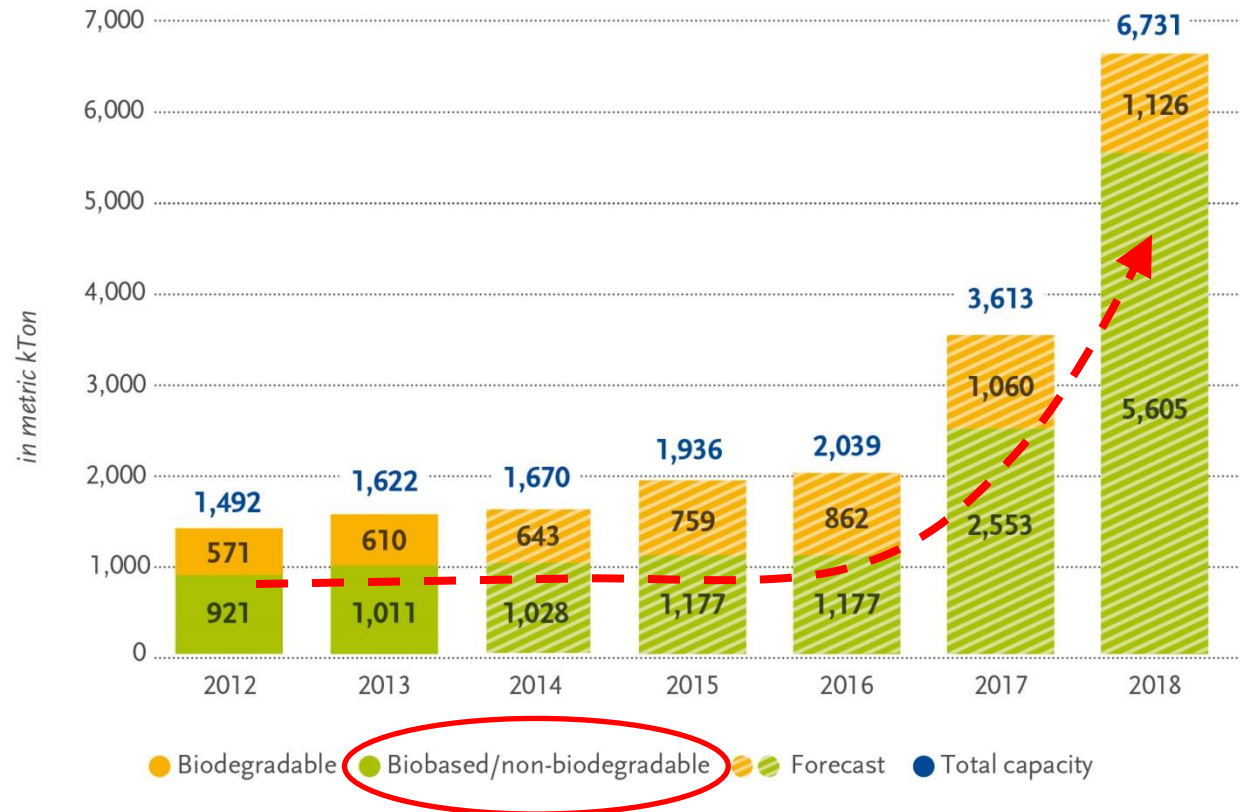
- Why are we here today?
 - **Share** information on individual activities
 - **Network** and engage – Bioplastics Forum
 - **Focus discussion** on the opportunities, challenges, needs
 - **Map out** complimentary stakeholder activities to take forward

- Video conference Q&A at 3pm with –
 - Coca-Cola General Manager: Plant Bottle – Mr Michael Knutzen

Opportunities in bioplastics

- Global bioplastics production capacity is set to grow 300% by 2018
- Greatest growth is in biobased, non-degradable plastics
- Bioplastic production capacities are growing fastest outside of Europe

Global production capacities of bioplastics



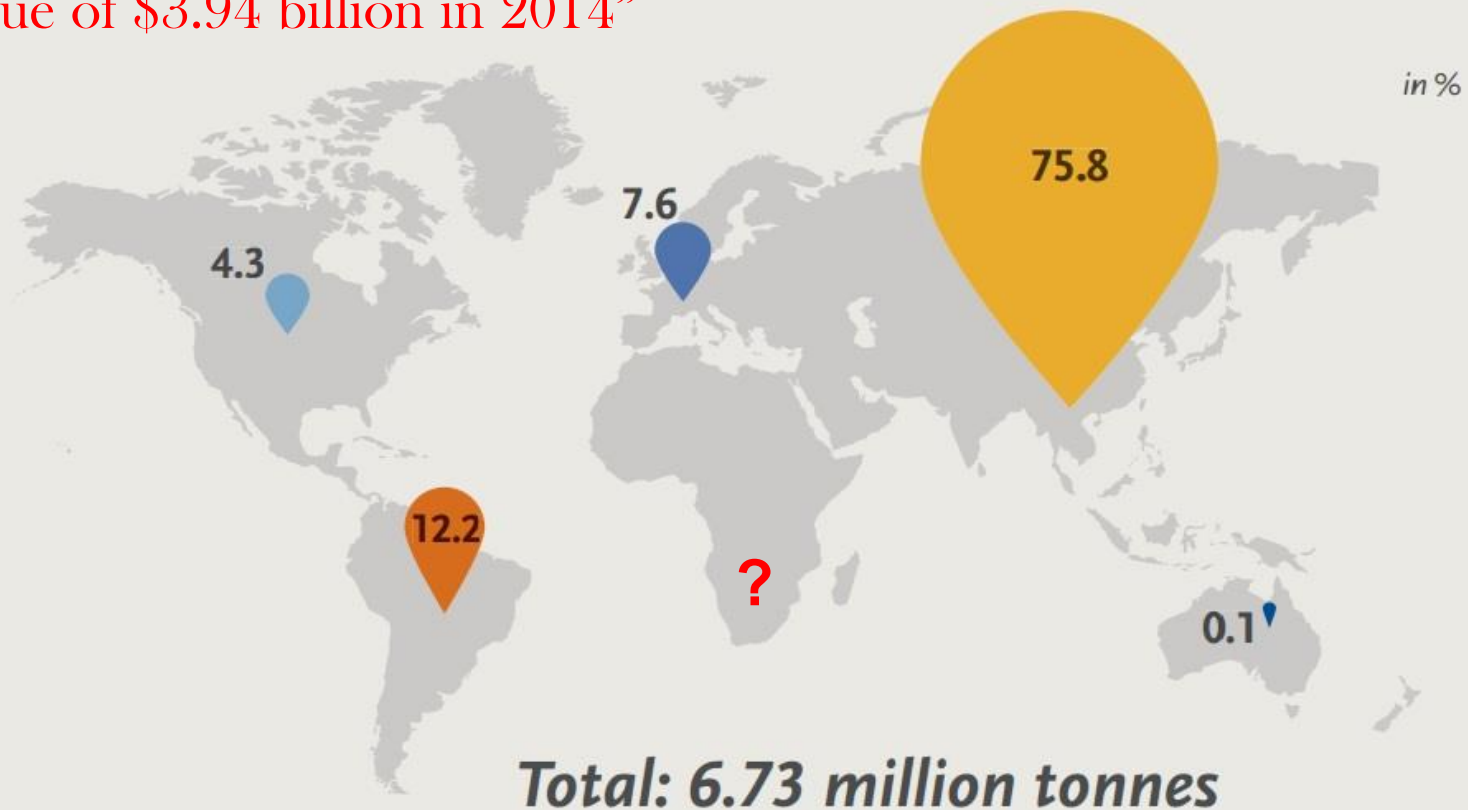
Source: European Bioplastics, Institute for Bioplastics and Biocomposites, nova-Institute (2014)
More information

Renewable resources for bioplastics currently include annual crops, such as corn and sugar beet, or perennial cultures, such as cassava and sugar cane.

Opportunities in bioplastics

Global production capacities of bioplastics in 2018 (by region)

“Bioplastics market will reach a market value of \$3.94 billion in 2014”



Source: European Bioplastics, Institute for Bioplastics and Biocomposites, nova-Institute (2014)
More information: www.bio-based.eu/markets and www.downloads.ifbb-hannover.de



Opportunities in bioplastics

- Why does South Africa not already have a functional bioplastics industry (or broader biorefinery industry)?
- Can we create a local bioplastics industry in South Africa?
 - If not, why not?
 - If yes, how?
- Unique research, development and innovation needs and opportunities
- Industry opportunities