

Delivered by GreenCape

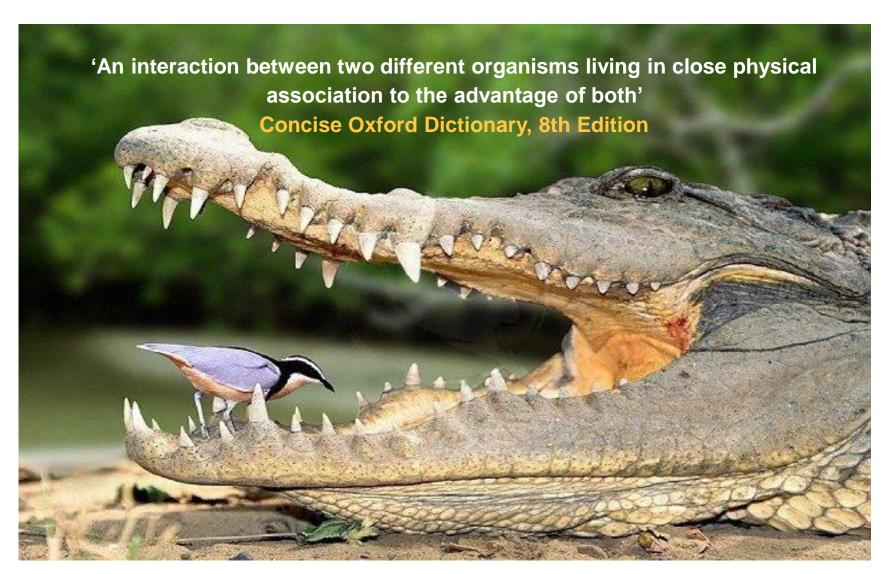
IWMSA Seminar Day

Toward the end of waste: Wise resource use in waste management

Stellenbosch 20 April 2017



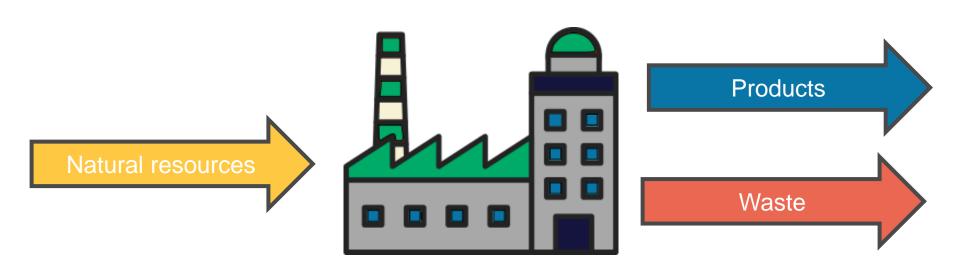
A definition





Assisting the development of the circular economy

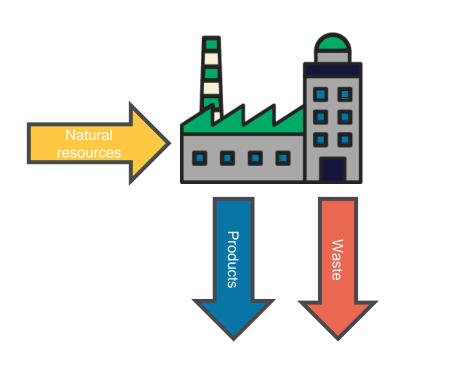
LINEAR SYSTEM

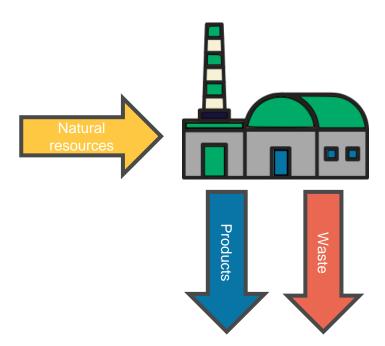




Assisting the development of the circular economy

TRANSITION TOWARDS A CIRCULAR SYSTEM

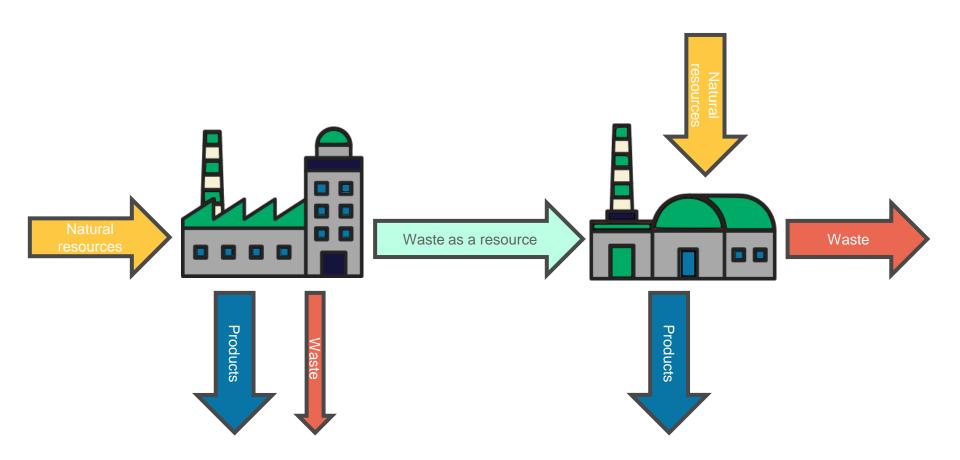






Assisting the development of the circular economy

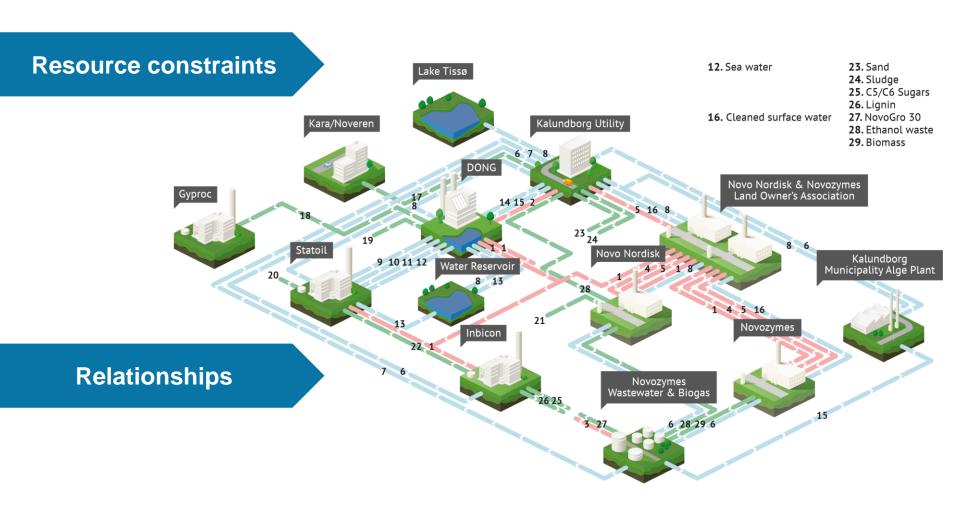
TRANSITION TOWARDS A CIRCULAR SYSTEM



Eco-industrial parks and facilitated industrial symbiosis



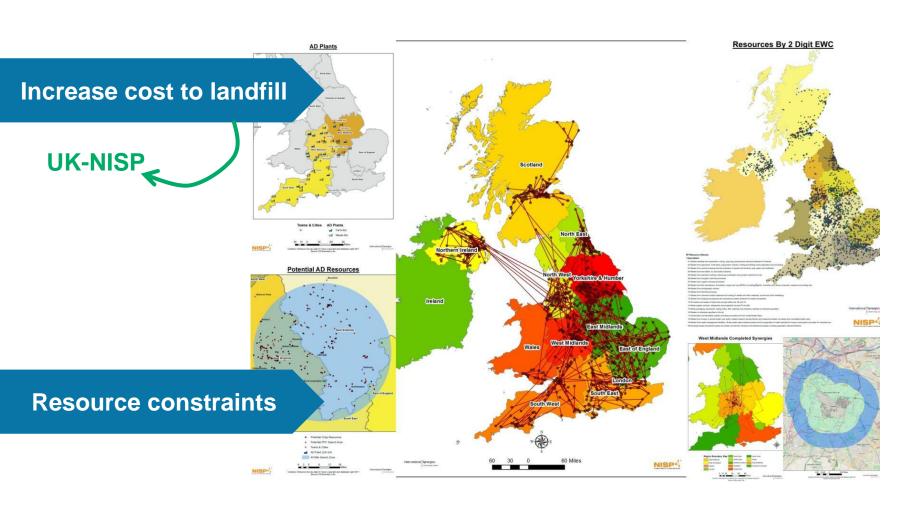
Industrial symbiosis in Kalundborg



Eco-industrial parks and facilitated industrial symbiosis



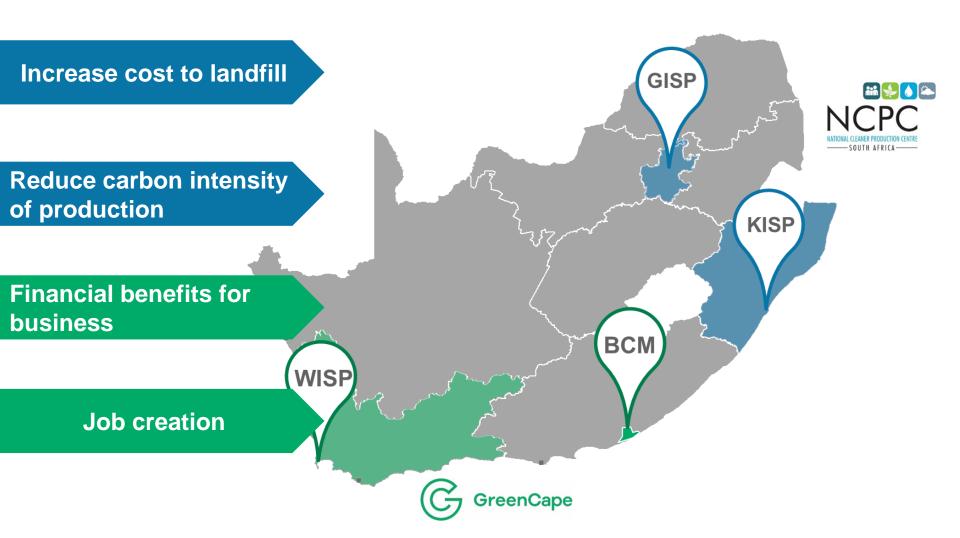
Industrial symbiosis in the UK



Eco-industrial parks and facilitated industrial symbiosis



Industrial symbiosis in South Africa





in a nutshell.....

The Western Cape Industrial Symbiosis Programme (WISP) is a free service which connects companies so that

they can identify and realise the business opportunities enabled by using unused or residual resources (materials, energy, water, assets, logistics, expertise)





in a nutshell.....

Funded by



Delivered through



In collaboration with

International Synergies industrial ecology solutions







Sarah Programme Manager O'Carroll Emmanuel Oliver Lindiwe Jarrod Lyons **Facilitators** Yaseen Salie Kasese Bonstein van Staden Agroprocessing, Metals & Construction & Clothing & Food & Clothing & Demolition Engineering Beverages Textiles **Electronics** Chemicals Wood Commercial Paper & Pharmaceuticals **Boat Building** Buildings Publishing Bioenergy **Plastics Plastics**

How does WISP work?



- 1. We visit companies
- We ask them a lot of questions to understand their operations and their waste streams
- 3. We identify unused/underutilised resources
- 4. We record and upload this data onto SYNERGieTM
- We identify potential matches between the companies in our network
- 6. We facilitate the engagements between companies
- We ask for feedback on the economic, environmental and social benefits from the matches implemented
- 8. We do regular catchups with our members



Achievements to date

>400
Companies in the Network

>4000
Under-utilised
Resources
Identified

Key Performance Indicator	To Date (March 2017)	March 2018 Projection (Assuming No More Synergies Completed)
Waste Diversion	5,200 tonnes	7,940 tonnes
Additional Revenue	R 12.6 million	R 18.2 million
Cost Savings	R 11.6 million	R 15.4 million
Private Investment	R640 000	R4.0 million
Fossil GHG Savings	27,000 tonnes CO ₂ e (16,600 trees planted)	46,700 tonnes CO ₂ e (28,700 trees planted)
Job Creation	25 temporary, 20 permanent, 64 other economy wide jobs	25 temporary, 20 permanent, 85 other economy wide jobs





>350

>3000

For every R1 government invests in us we return R3 to our network in economic benefits

Inc Wa It costs us about R1300 to divert a tonne of waste from landfill		
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Cost Savings	R 8.5 million	R 15.8 million
Private Investment	R100 000	R100 000
Fossil GHG Savings	7,200 tonnes CO ₂ e	36,800 tonnes CO ₂ e
Job Creation	14 temporary, 12 permanent, 5 indirect and 5 induced	14 temporary, 12 permanent, 5 indirect and 5 induced

Western Cape Industrial Symbiosis Programme

Delivered by GreenCape



An initiative of the Forum of Young Global Leaders
Sponsored by and in collaboration with: Accenture
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Media Parter: Fortune

sarah@green-cape.co.za 021 811 0250

