

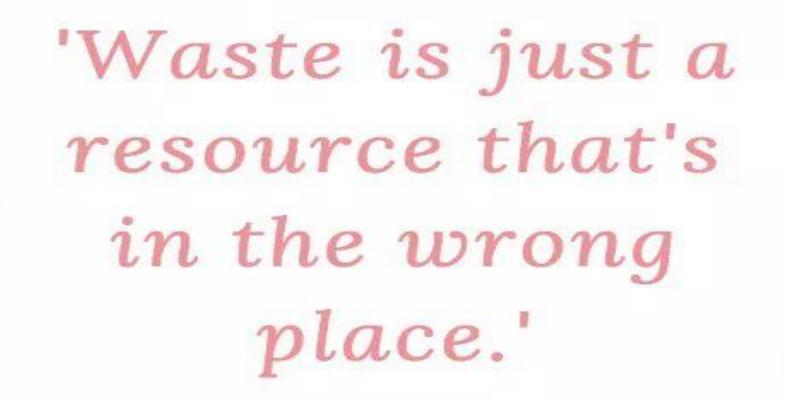
Western Cape Government

Environmental Affairs and Development Planning

BETTER TOGETHER.

"CURRENT CHALLENGES - LIQUID WASTE, BAN ON ORGANIC WASTE TO LANDFILL AND TYRE REGULATIONS"

Eddie Hanekom



Integrated Industry Waste Tyre Management Plan (IIWTMP) published in 2012

Tyre Plan to fulfill producers' responsibilities EPR responsibility

- July 2013 Recycling and Economic Development Initiative of South Africa (REDISA), (PRO) formally started out.
 - Polluter pays principle implemented to fund Plan
 levy of R2.30 on each kilogramme of tyre sold;
 - R500-million a year levy generated; and
 - REDISA built 22 tyre collection centres and employed more than 3 000 people.
- Implementation plagued by concerns from government, labour and civil society over the past five years.







Integrated Industry Waste Tyre Management Plan (IIWTMP) published in 2012

- 2017 government gazetted legislation that shifted the EPR "fee", previously collected by the PRO, to an EPR "tax":
 - which is now paid by producers directly to government (National Revenue Fund (Section 213(1)) of the Constitution).



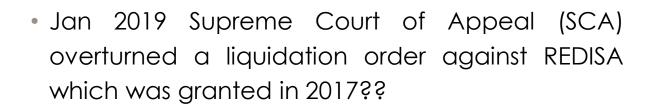
- Minister of Environmental Affairs liquidated REDISA.
- Plan was withdrawn in Sept 2017.





Integrated Industry Waste Tyre Management Plan (IIWTMP) published in 2012

- Des 2017 due date for plan submission.
- Sept. 2018 plans published for comments.
- Two plans submitted and both turned down by Minister.









Waste Bureau

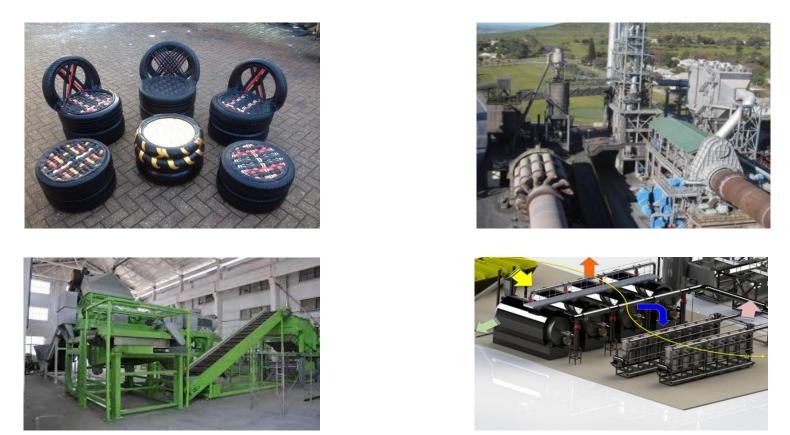


- Contact Waste Bureau:
 - Andile Mvinjela
 - 012- 399 8796
 - <u>Amvinjela@environment.gov.za</u>



Waste Tyre Management WC

End of life management of tyres

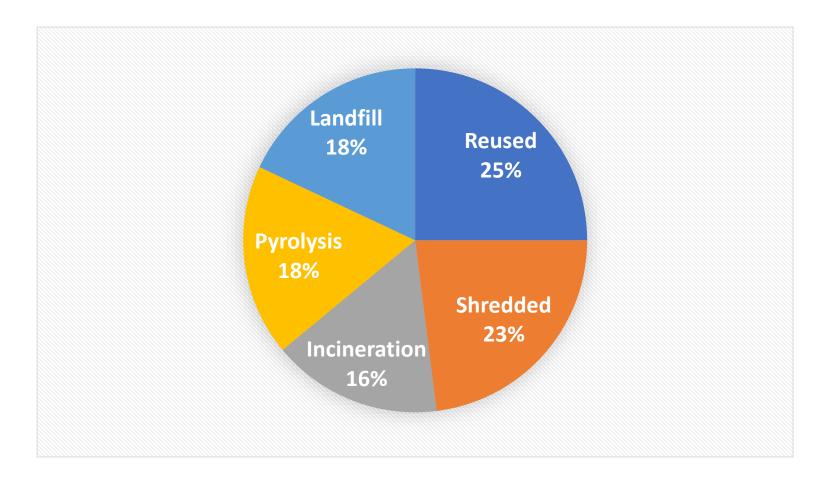


Mar 7, 2019 - In SA, it is estimated that 11-million **waste** tyres are lying in dumps, ... A new **Waste** Management **Bureau** has been set up in its place.



© Western Cape Government 2012 |

End of life management of tyres in SA - 2016 (Hartley & Daniels)





National Norms & Standards for Disposal of Waste to Landfill – Notice No 636 of 23 August 2013

| Waste Prohibited or Restricted in terms of Disposal | Compliance Timeframe | | |
|---|----------------------|--|--|
| (k) Re-usable, recoverable or recyclable used or spent solvents. | Five (5) years | | |
| PCB containing wastes (>50 mg/kg or 50 ppm). | Five (5) years | | |
| (m) Hazardous Waste Electric and Electronic Equipment (WEEE) – Lamps. | Three (3) years | | |
| (n) Hazardous Waste Electric and Electronic Equipment (WEEE) - Other. | Eight (8) years | | |
| (o) Waste tyres: Whole. | Immediate | | |
| (p) Waste tyres: Quartered. | Five (5) years | | |
| (q) Liquid waste- | Six (6) years | | |
| (i) Waste which has an angle of repose of less than 5 degrees, or | | | |
| becomes free-flowing at or below 60 °C or when it is transported, or | | | |
| is not generally capable of being picked up by a spade or shovel; or | | | |
| (ii) Waste with a moisture content of >40% or that liberates moisture | | | |
| under pressure in landfill conditions, and which has not been | | | |
| stabilised by treatment. | | | |
| | | | |



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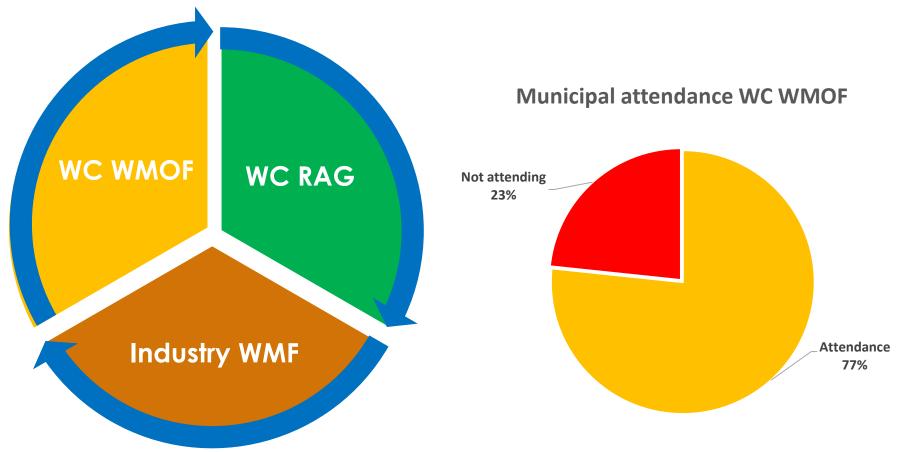
. ...

National Norms & Standards for Disposal of Waste to Landfill – Notice No 636 of 23 August 2013

- Liquid waste can be defined as such fluids as wastewater, fats, oils or grease (FOG), used oil, and hazardous household liquids.
- Main sources are residential, commercial, and industrial areas.
 - Stormwater is also a source of **liquid waste**.
 - Liquid waste from domestic sources can be classified as blackwater, which contains excreta, and greywater.
 - The characteristics of industrial wastewaters depend on the **type** of industry.
- Liquid waste can be subdivided into other waste types based on the nature of the liquid waste and the risks it poses.
- Non-infectious & infectious abattoir waste?
- Certain food waste?
- Effective from August this year affect both hazardous and general waste disposal facilities.

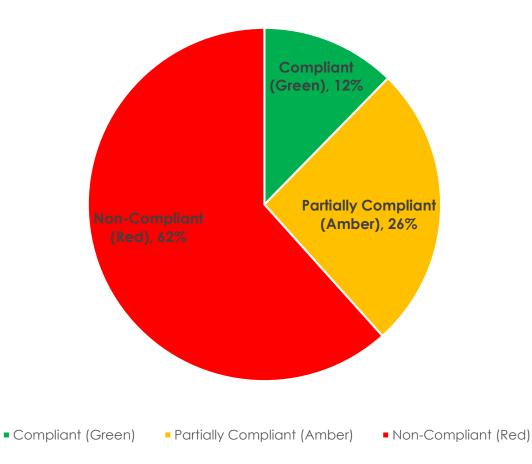


Effective functioning waste governance platforms





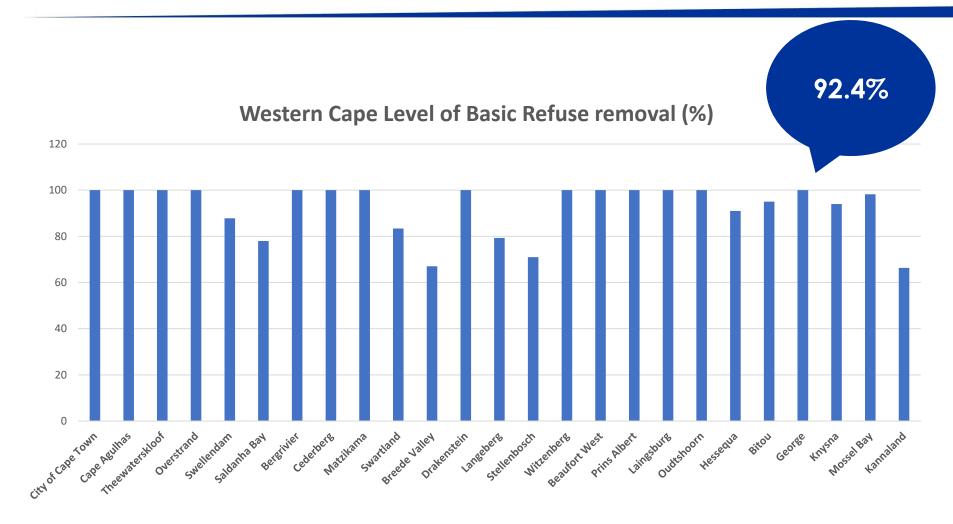
2018 Compliance Status of Waste Management Facilities Audited (72 authorities audits)



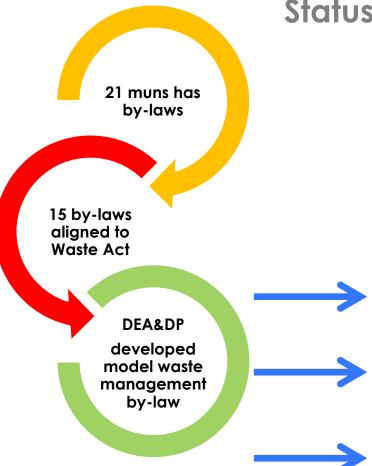


| Waste Management Facilities | City of Cape Town | Overberg | Cape Winelands | West Coast | Central Karoo | Ede n | Tota I |
|---|-------------------|----------|----------------|------------|---------------|----------|-----------|
| Operational Waste Disposal Facilities | 4 | 9 | 14 | 7 | 6 | 15 | 55 |
| Operational Waste Disposal Facilities (Unlicenced) | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Decomissioned Waste Disposal Facilities | 23 | 20 | 16 | 34 | 1 | 15 | 109 |
| Operational Drop off facilities | 19 | 8 | 5 | 12 | 0 | 4 | 48 |
| Operational Transfer stations | 1 | 4 | 4 | 2 | 0 | 5 | 16 |
| Operational Materials recovery facilities | 27 | 3 | 3 | 5 | 1 | 3 | 42 |
| Alternative Waste Treatment Technologies | 14 | 1 | 5 | 4 | 0 | | 24 |
| Operational Compost Facilities | 3 | 1 | 2 | 0 | 0 | 2 | 8 |
| Decomissioned and Operational Waste Management Facilities | 91 | 46 | 49 | 64 | 9 | 44 | 303 |









Status municipal by-laws

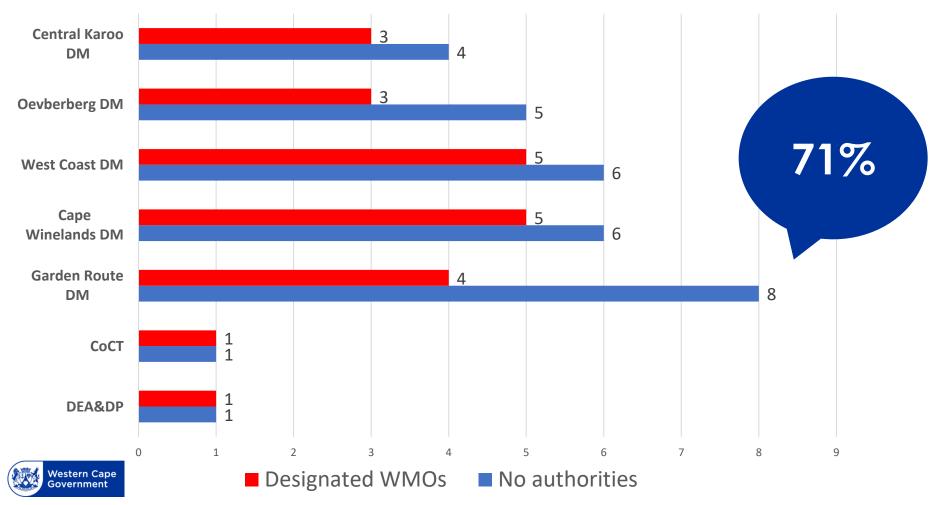
Improve waste management and service delivery

Easier for private sector to access waste material – to drive the waste economy

Align to NEMWA

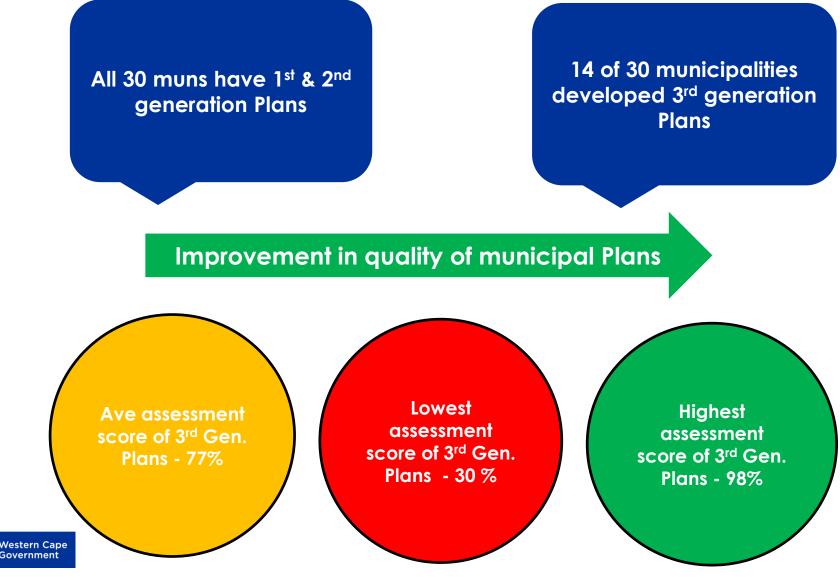


Status of designated Waste Management Officers (ito Sect 10 of NEMWA): WC

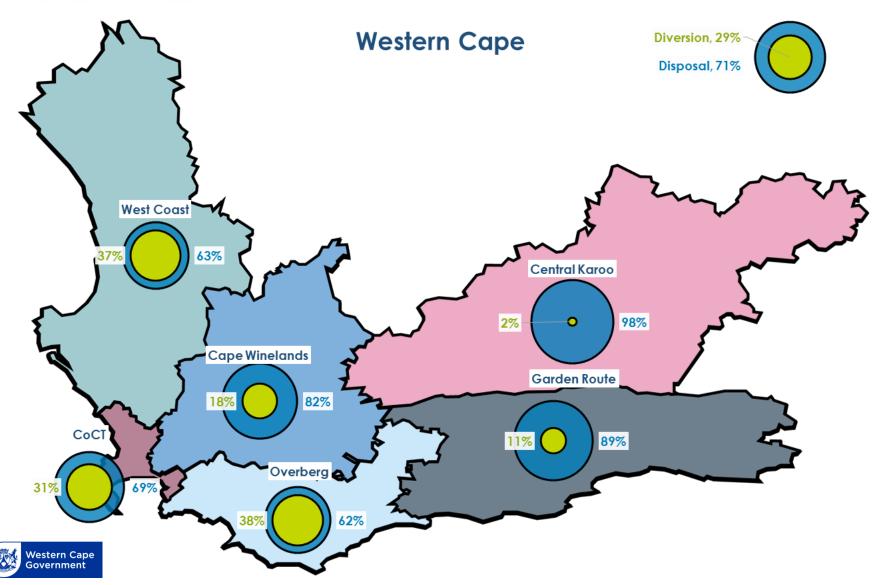


[©] Western Cape Government 2012 | SA waste legislation

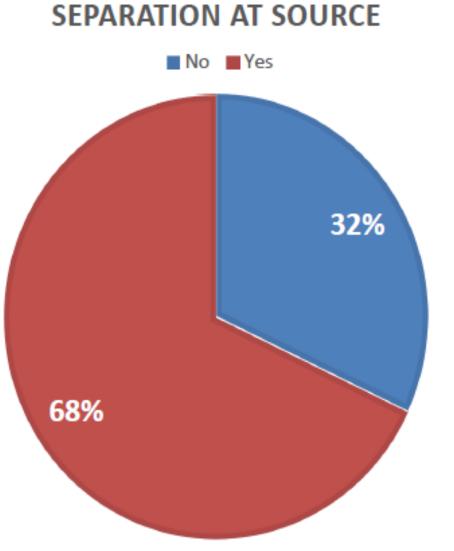
Municipal Integrated Waste Management Plans assessment analysis



Waste diversion in the WC

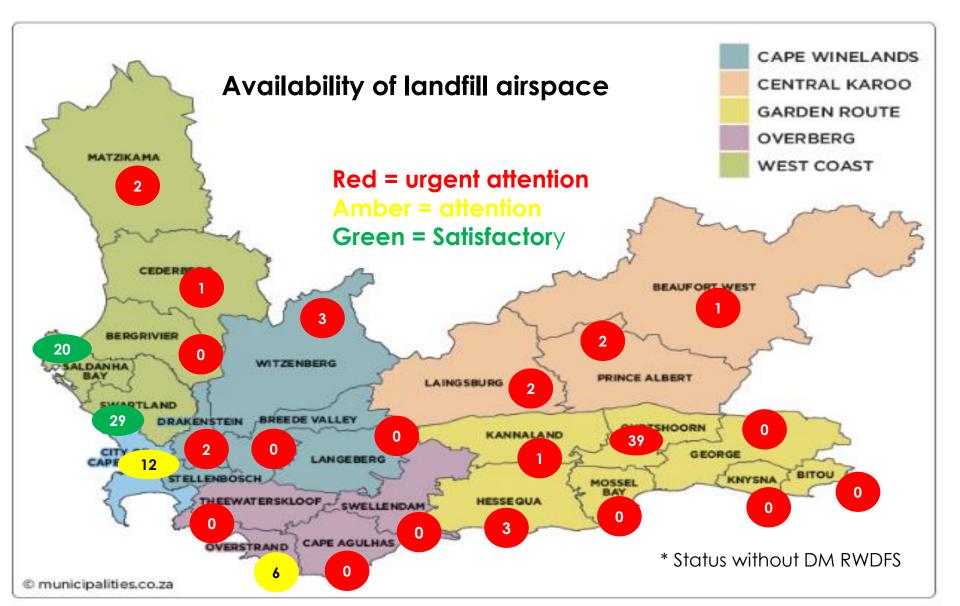


Municipalities with S@S









•WCG Policy to promote regionalisation waste management services

- Authorize only new regional waste disposal facilities in the future due high operational cost and reduce environmental impacts of non-complaint smaller WDFs – inline with National Development Plan – post 2030.
- Regionalisation for waste management services should not solely focus on regional WDFs but preferably on the **whole waste service**.





WCG Response to landfill airspace challenges

Aggressive waste diversion, recovery and beneficiation of waste material:

- Focus initially on interventions on waste streams such as <u>organic waste</u> and construction & demolition waste :
 - Set diversion targets for organic waste 50% diversion of organic waste from landfill by 2022; and
 - Landfill ban of organic waste to landfill by 2027.
- Assistance to municipalities
 - Separation at source guideline.
 - Develop generic organic waste diversion plan template.
- Promote waste economy & job creation:
 - Waste preneurs project.

estern Cape

 Promote alternative waste treatment <u>– ass</u>istance to municipalities.



ORGANIC WASTE INTERVENTIONS

Significant negative environmental, social and economic impacts

Developed status quo reports on Abattoir and Green waste to understand waste stream.

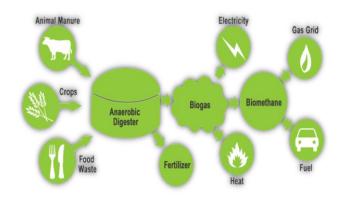
Developed guidelines for Abattoir and Green waste management.

- Influenced national policy (Dept. Environmental Affairs and Dept. of Agriculture)
 - Norms & standards.
- Facilitated various engagements between the organic beneficiation technology owners and generators of problematic organic waste types such as abattoir and green waste.
- Promoted formalizing of organic waste sector establishment of Organics Recycling Association of South Africa (ORASA).





Alternative waste treatment

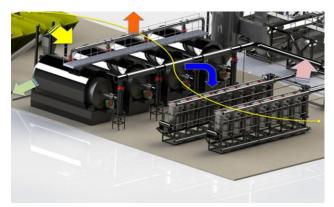






INSECO Feeding the Future



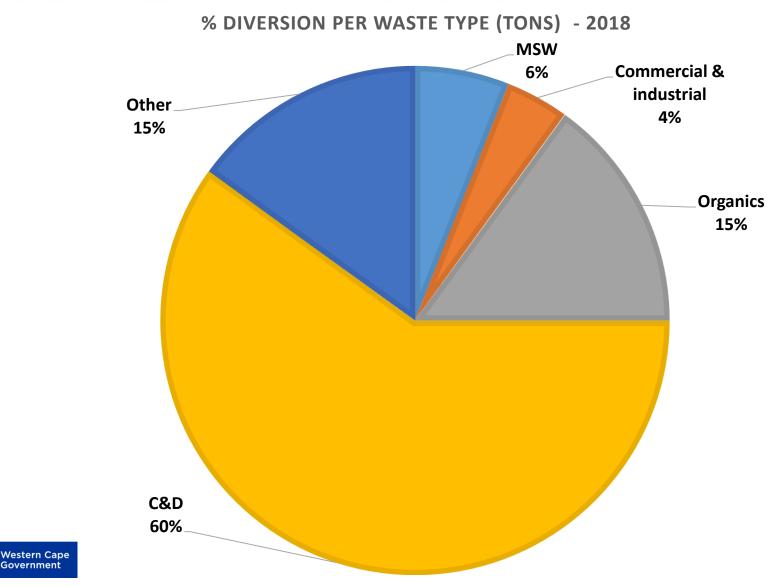






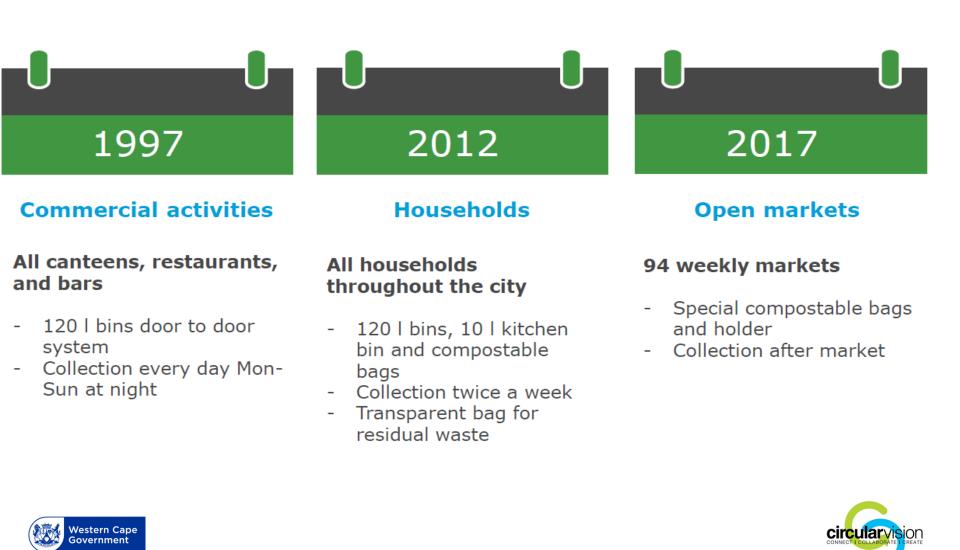


Waste diversion in the WC



ORGANIC WASTE COLLECTION STRATEGY Evolution





ORGANIC WASTE COLLECTION STRATEGY Results





- Food waste management is a key factor in the city's food policy for sustainability
- Milan food waste management is considered a best practice across all major European cities



Quantity per capita

100 kg/inh./year is the quantity per capita of food waste that we collect.

This result is the highest across all major European cities

Commercial waste

About 30% comes from commercial activities and schools while the majority is residential

30 %



Overall quantity

About 150,000 t/year of food waste are now being collected separately and sent to AD for organic recycling saving 10,000 t of CO2/year**

Average quality

Brown bin shows good quality with Non Compostable Material (NCM%) at 5% on average



Thank you

Contact Us



BETTER TOGETHER.

Eddie Hanekom

Director Waste Management

Tel: 021-4832728

Fax: 021-4834425

Eddie.Hanekom@westerncape.gov.za

www.westerncape.gov.za