

WASTE KHORO 2020

“The Fourth Industrial Revolution (4IR) for South Africa’s circular waste economy”.



NATIONAL WASTE MANAGEMENT STRATEGY (NWMS) 2020

Presented by: Mr Kgauta Mokoena



environmental affairs

Department:
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Outline

- Introduction and Background
- Status and Progress on the 2011 NWMS
- NWMS 2020 Cross-cutting Issues
- Key Principles in the NWMS 2020
- Contents of the NWMS 2020
- Implementing CE Through EPR Schemes
- NWMS 2020: New Pillars
- Implementation Plan
- Monitoring and Evaluation
- Conclusion



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Introduction and Background

- Our **strategic planning approach** to waste management assimilate **the commitments and directives** of the Constitution, the SDGs 2030 and the NDP Vision 2030 and the 7 government priorities
- Integrate Chemicals and Waste Economy Phakisa, Good Green Deeds Programme and District Development Model
- This includes the National Waste Management Strategy and Integrated Waste Management Plans for Provinces and Municipalities
- We do sector planning and indicators based on the above
- We implement, report and conduct continuous **monitoring and evaluation**



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Introduction and Background

- **With the developments in the NWMS 2020, key to** our sector priorities and strategies should be incorporating the implementation of NWMS 2020
- Align with the NWMS 2020 and Circular Economy (CE) implementation in **Strategic Plans, MTSF, and APPs** development
- Consider current resource constraints – **financial and human resources**
- Calls for **rethinking and redesign** of our core mandate and delivery plans



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Status and Progress on the 2011 NWMS

- The situational analysis conducted on the implementation of the NWMS 2011 showed the following progress:

Goal	Targets	Actions	Overall Progress
Promote waste minimisation, re-use, recycling and recovery of waste	53%	75%	64%
Ensure the effective and efficient delivery of waste services	70%	59%	64%
Grow the contribution of the waste sector to the green economy	40%	55%	47%
Ensure that people are aware of the impact of waste on their health, well-being and the environment	80%	62%	71%
Achieve integrated waste management planning	40%	65%	52%
Ensure sound budgeting and financial management for waste services	10%	55%	32%
Provide measures to remediate contaminated land	100%	70%	85%
Establish effective compliance with and enforcement of NEMWA	38%	40%	39%



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NWMS 2020 Cross-cutting Issues

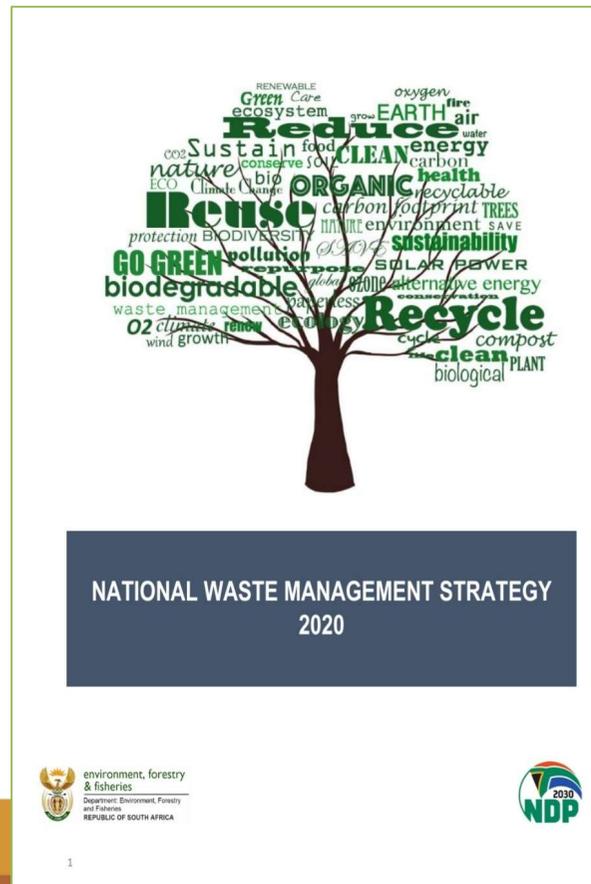
- Chemicals and Waste Economy Phakisa alignment: including that the Green Economy and Circular Economy argument needs to go beyond job creation.
- Framing and alignment of goals, targets and actions.
- Top (waste prevention) and bottom (energy recovery, alternative waste treatment) of the waste management hierarchy need greater attention. Waste minimisation needs to target particular waste streams.
- Research, Development and Innovation – the role of government departments, the private sector, civil society, and so forth.
- Budget for implementing NWMS 2020 and leveraging of other funds.
- Focus on improving reporting, data reliability and informing of the Policy Review to be more effective, relevant and respond to changes in the various sectors and in the economy.



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Key Principles in the NWMS 2020



- ### National Waste Management Strategy 2020
- Key Principles:
- Waste Hierarchy
 - Circular Economy
 - Polluter Pays



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Key Principles for the NWMS 2020

PRINCIPLE	EXPLANATION
Waste Minimisation	This refers to avoiding the amount and toxicity of waste that is generated and, in the event that waste is generated, the reduction of the amount and toxicity of the waste that is disposed. Strong in waste minimisation is the concept of circular economy.
Waste Prevention	This refers to avoiding the generation of waste and avoiding toxicity in waste.
Waste as a Resource	This refers to beneficiating waste through re-use, recycling, treatment and recovery to reduce the amount and the toxicity of waste disposed of. Waste as a resource also features strongly in the circular economy.
Sustainable Strategic Partnerships	This refers to government establishing and sustaining collaborative working relationships with non-government role-players involved in the management of waste, i.e. private sector, academia, civil society organisations and other development funding institutions.
Environmentally sound socio-economic growth and development	This refers to ensuring that the intent and commitments of the Sustainable Development Goals, National Development Plan 2030 are continuously integrated and aligned to all environmental protection considerations, and that environmental protection programmes contribute to improving the socio-economic lives of people.



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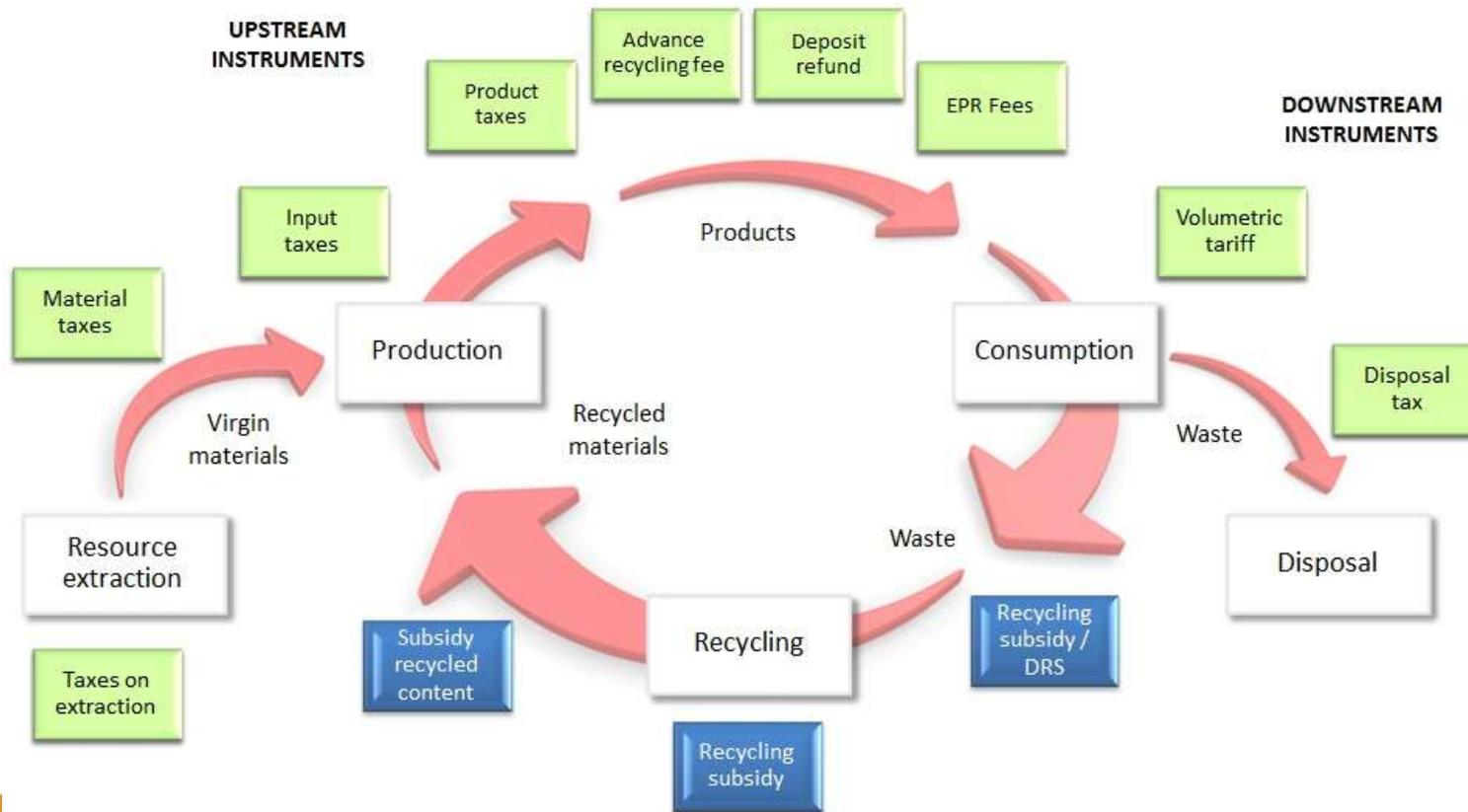
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Implementing CE Through EPR Schemes

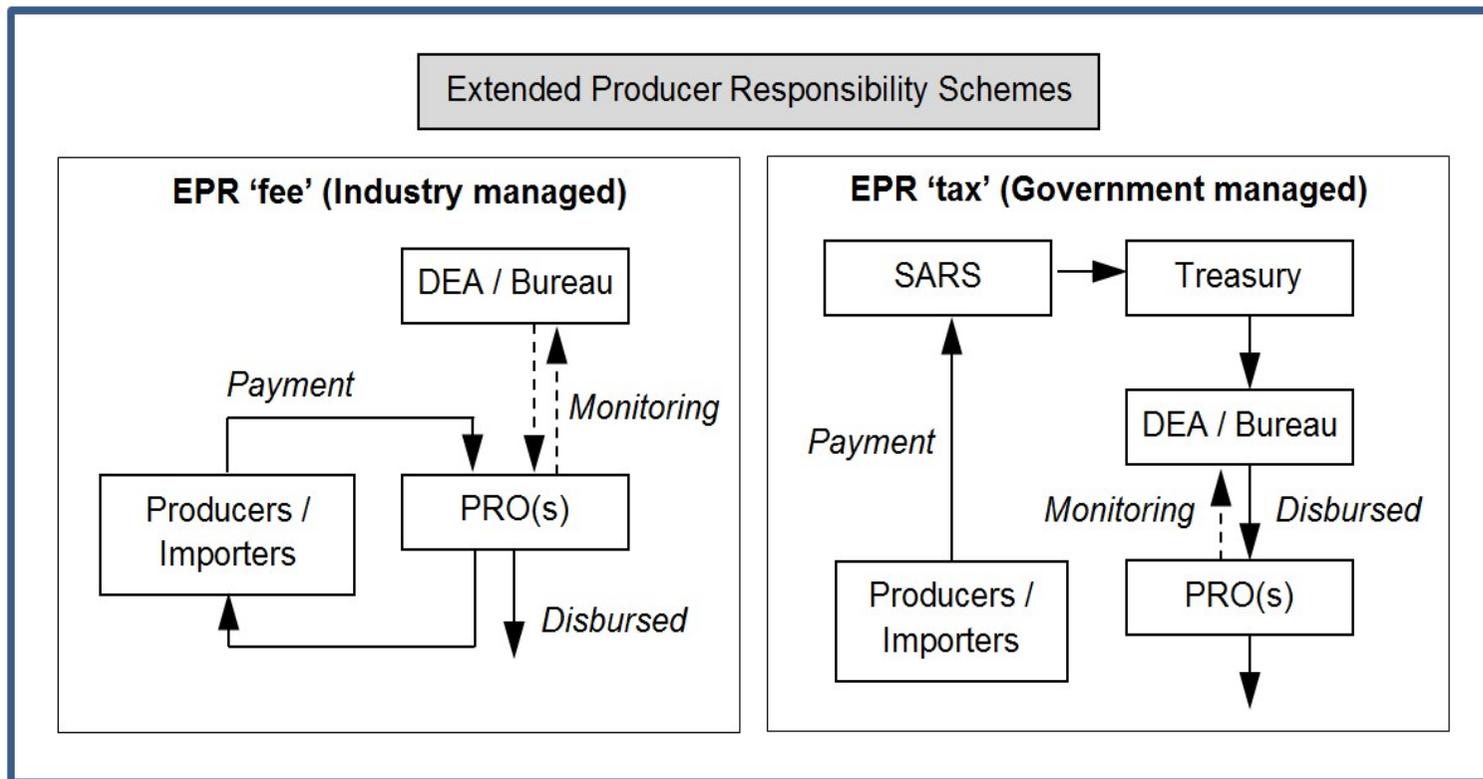




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Implementing CE Through EPR Schemes





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NWMS 2020: New Pillars

1. Waste Minimisation:

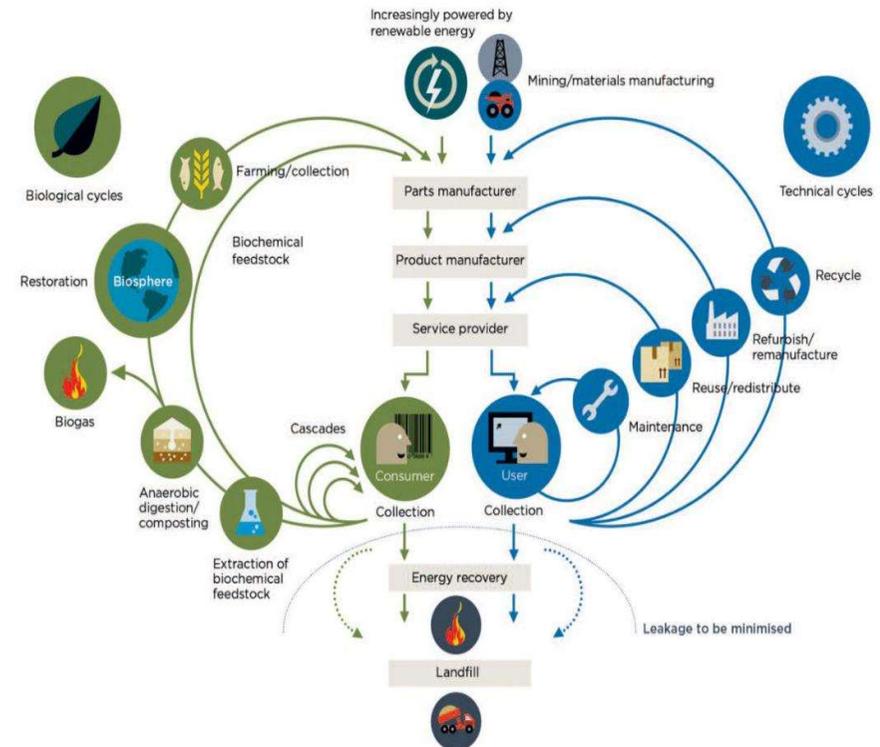
- Prevent waste and, where waste cannot be prevented, divert 40% of waste from landfill within 5 years through reuse, recycling, recovery and alternative waste treatment.

2. Effective and Efficient Waste Services:

- All South Africans live in clean communities with waste services that are well managed and financially sustainable

3. Compliance, Enforcement and Awareness:

- Mainstreaming of waste awareness and a culture of compliance with zero tolerance of pollution, litter and illegal dumping



Butterfly Diagram on Circular Economy, Source: Ellen MacArthur Foundation



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NWMS 2020: New Pillars

Key Strategic Pillars

[In line with the Outcomes-based Planning approach of government]

1. Waste Minimisation





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NWMS 2020: New Pillars

Key Strategic Pillars

[In line with the Outcomes-based Planning approach of government]

2. Effective and Efficient Waste Services

All South Africans **live in clean communities** with **waste services** that are **well managed and financially sustainable.**



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NWMS 2020: New Pillars

Key Strategic Pillars

[In line with the Outcomes-based Planning approach of government]

3. Compliance, Enforcement and Awareness

Mainstreaming of **waste awareness** and a **culture of compliance** resulting in **zero tolerance of pollution, litter and illegal dumping**



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NWMS Implementation Plan - Waste Minimisation

OUTCOME 1: 40% of waste from diverted from landfill within 5 years

KEY INTERVENTION	ACTION/S	PERFORMANCE INDICATORS	TARGETS	TIMELINE	IMPLEMENTING AGENT/S
Prevent waste generation through cleaner production, industrial symbiosis and extended producer responsibility	Develop and implement EPR schemes for priority wastes (i.e. WEEE, Paper and Packaging, Lighting, and Tyres) that includes measures for cleaner production, industrial symbiosis and extended producer responsibility.	(i) Number of EPR schemes finalised, adopted and implemented. (ii) Number of EPR meeting or exceeding performance targets within 5 years	(i) Four (4) x EPRs for WEEE, Paper and Packaging, lighting and tyres (ii) % Reduction of waste disposed to landfill (as per outcome 1); toxicity of waste streams; waste in manufacturing and across its value chain	(i) 2021 (ii) 2025	DEFF CSIR, Industry Associations
	Strengthen the capacity and national reach of the NCPC-SA through establishing waste symbiosis programmes in all provinces	(i) Number of Provinces with well established Industrial Symbiosis Programmes (ii) Increase in training and technical support provided by NCPC-SA	(i) a. 5 x provinces – Gauteng, KZN, E.Cape, Mpumalanga, North West b. 3 x provinces – Free State, Limpopo, N.Cape (i) 15 of training and technical support programmes implemented by the NCPC-SA	(i) a. 2021 (ii) b. 2022 (iii) 2025	NCPC-SA DEFF, DSI (TIA and Waste RDI Roadmap), provinces, industrial development zones, business chambers and industry associations
	Minimise the production and retail of single-use plastics for consumption within the country and replace the products with bio-degradable alternatives	Single use plastics to be covered by generic reference to the National Pricing Strategy for Waste Management	80% reduction in production of single use plastics not covered by deposit scheme under the National Pricing Strategy	2025	DEFF DTIC, DSI (TIA and Waste RDI Roadmap), retail and other affected industries



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NWMS Implementation Plan - Waste Minimisation

OUTCOME 2: All South Africans live in clean communities with waste services that are well managed and financially sustainable

KEY INTERVENTION	ACTION/S	PERFORMANCE INDICATORS	TARGETS	TIMELINE	IMPLEMENTING AGENT/S
Separate Waste at Source	Integration of waste pickers into municipal collection services	(i) Number of Integration guidelines developed	(i) 1 x Guidelines adopted and implemented	(i) 2020	DEFF Waste RDI Roadmap, local government, SALGA, COGTA, Waste Pickers Association, African Reclaimers Association
		(ii) Number of metros with integration programmes in place	(ii) All metros	(ii) 2021	
(iii) Number of secondary cities with integration programmes in place	(iii) All secondary cities	(iii) 2024			
(iv) Number of sustainable jobs/decent livelihoods created in collecting recyclables	(iv) 500 jobs created/decent livelihoods created	(iv) 2024			
	Public online and annually update guidelines, case studies and planning tools on separation at source for municipal managers	(i) Number of downloads of annual updates	(i) 100 downloads per update	(i) 2021 onwards	DEFF Waste Bureau, Waste RDI Roadmap, COGTA, SALGA and municipalities
		(ii) Percentage of households separating at source	(ii) 50% of households in municipalities implementing services	(ii) 2024	
	National Awareness campaign on recycling and waste management	Number of Good Green Deeds programme activities implemented on an ongoing basis	20 of Good Green Deeds activities	2020 onwards	DEFF Provinces, municipalities, COGTA and SALGA



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NWMS Implementation Plan - Waste Minimisation

OUTCOME 3: Mainstreaming of waste awareness and a culture of compliance resulting in zero tolerance of pollution, litter and illegal dumping

KEY INTERVENTION	ACTION/S	PERFORMANCE INDICATORS	TARGETS	TIMELINE	IMPLEMENTING AGENT/S
Reduce Pollution, littering and illegal dumping	Develop and implement a national awareness campaign about litter and illegal dumping	(i) Rand value of media spend – print, tv, radio (ii) Social Media Campaign statistics	(i) 5 million (ii) 12 per annum	(i) 2024 (ii) 2024	DEFF Provinces, municipalities, COGTA, SALGA and private sector
	Establish a micro-grant facility training and purchasing of equipment for community-based clean-up operations	(i) Number of micro-grants issued (ii) Number of reports from micro-grant recipients	(i) 20 (ii) 20	(i) 2024 (ii) 2024	DEFF Waste Bureau, civil society, Cities Support Programme, NT
Enhance capacity to monitor compliance and enforce the Waste Act and International Agreements	Agreement between DEFF, SAPS and NPA on increasing enforcement of Waste Act and municipal by-laws relating to pollution, littering and illegal dumping	(i) Number of Agreements signed (ii) Number of reports on compliance and enforcement reports	(i) 1 x Agreement signed and implemented (ii) 1 x National Environmental Compliance and Enforcement Report (NECER) per annum	(i) 2021 (ii) 2024	DEFF SAPS, NPA
	Increase the number of EMIs dedicated to monitor compliance and enforce the Waste Act	Number of EMIs appointed	<ul style="list-style-type: none"> At least 1 EMI per metro district All districts All national, provincial and local municipalities 	(i) 2025	DEFF Provinces, local municipalities
	Proclamation on import and export of waste	Number of proclamations developed	1 x proclamation adopted and implemented	2021	DEFF
Ensure municipal landfill sites and waste management facilities comply with licensing requirements	Develop financial mechanisms to enforce compliance to license conditions	(i) Number of policy recommendations on financial mechanisms developed and implemented (ii) Number of national action plan on landfill licensing compliance (iii) Number of municipal landfills complying with licensing conditions	(i) 1 x financial mechanism adopted and implemented (ii) 1 x National Action Plan (iii) All municipalities compliant	(i) 2021 (ii) 2021 (iii) 2024	DEFF NT, Provinces, local municipalities



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Monitoring and Evaluation

- NWMS 2020 Implementation Project
 - National Roadshow on the implementation
 - Identification of Projects for Implementation
- Annual monitoring and evaluation
- Mid-term evaluation of the NWMS 2020
- Final Status Quo Assessment at the end of 5 years
- M&E to be done also noting the outcomes of the SEIAS process and the recommendation by the Presidency



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Conclusion

- In conclusion, the NWMS 2020 obtained the Final SEIAS Sign Off from the Presidency.
- As part of the Final SEIAS, permission has been granted to the Department to proceed with submission of the NWMS 2020 to Cabinet with recommendations that:
 - a. Tracking and tracing of performance indicators enlisted in the Implementation Plan are imperative to ensure that;
 - the set targets in the strategy are achieved,
 - consider automation of the M&E system, and
 - regular reporting to Cabinet on progress.
 - b. Successful implementation of the NWMS 2020 is largely dependent on availability of funding, therefore there is a greater urgency for discussion between DEFF and National Treasury on how green taxes gets reinvested into circular economy.

THANK YOU

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EASTERN CAPE PROVINCE

Eastern Cape Provincial Waste Management Officer’s Report

Presented by: Ms Lulama Daniels



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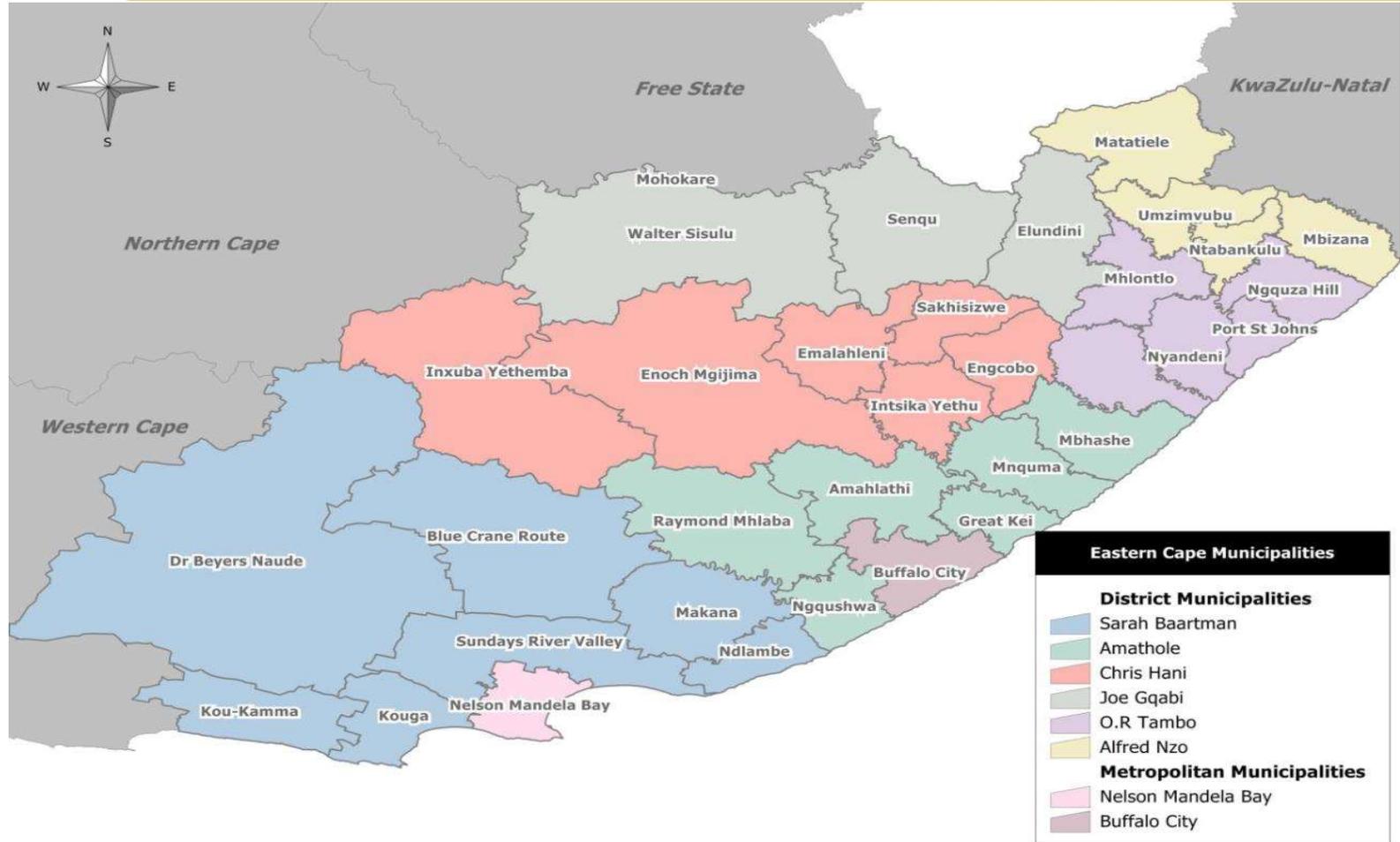
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Introduction

- The world is facing serious challenges with waste management with projections of 2.2 billion tons per year of waste generation by 2025.
- The Global Waste Management Outlook links poor waste management systems to political and administrative governance that is hampered by corruption.
- South Africa is no different as rapid urbanisation and population growth adds to the historical service backlogs and inequalities which exert pressure to waste infrastructure that is already in short supply.
- However, policy instruments developed to respond to waste challenges are framed around the concept of "Sustainable Development".



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The EC Waste Profile

- Only 36% of households in the province receive a weekly collection service and Municipalities are unable to provide a suitable waste collection service due to unreliable fleet (among other things).
- The majority (44%) of households use their own refuse dump for disposing of their waste (especially in the rural areas).
- The Province has a total of 96 operational waste disposal facilities of which 78 are permitted and 10 sites their validity period has expired.
- The Province has only 3 hazardous waste facilities, 2 in NMB and 1 in BCMM, all privately owned. (Pose serious challenges for Covid-19 Waste)

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Profile Cont...

- Majority of waste management facilities are not compliant with permit conditions.
- Poor waste management practices such as burning of waste are still occurring on landfill sites.
- Closure and rehabilitation of many landfill sites have not occurred within permitted timeframes.
- Landfill sites lack basic infrastructure and equipment such as fencing, gates, weighbridges, and ablution facilities resulting in poor unhealthy conditions



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What has been achieved

- Support to Local Authorities in the form of projects, campaigns and training programmes has been offered especially in un-serviced areas.
- Multi-stakeholder engagements through Provincial Waste Officers Forum to increase sharing of information and empowerment occur quarterly.
- Partnerships between public and private entities have been facilitated to foster good practice and pockets of excellence have been achieved.
- 30 Local Authorities have reviewed their IWMPs and 16 are reporting to SAWIS
- 33% of municipalities have separation at source programme in place even though there is limited recycling initiatives taking place within the Province.
- Five new waste licenses and registrations have been issued within legislated timeframes in the past year.



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Conclusion

- The Eastern Cape aspires to provide an effective waste management service and improve the compliance status of its waste facilities.
- The Covid-19 pandemic has exposed so much vulnerabilities and inefficiencies in our governance system and collaboration between the formal and informal waste service needs to be strengthened to unleash the economic opportunities in waste and thereby achieving "sustainable development".

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FREE STATE PROVINCE

Free State Provincial Waste Management Officer’s Report

Presented by: Mr John Kesi



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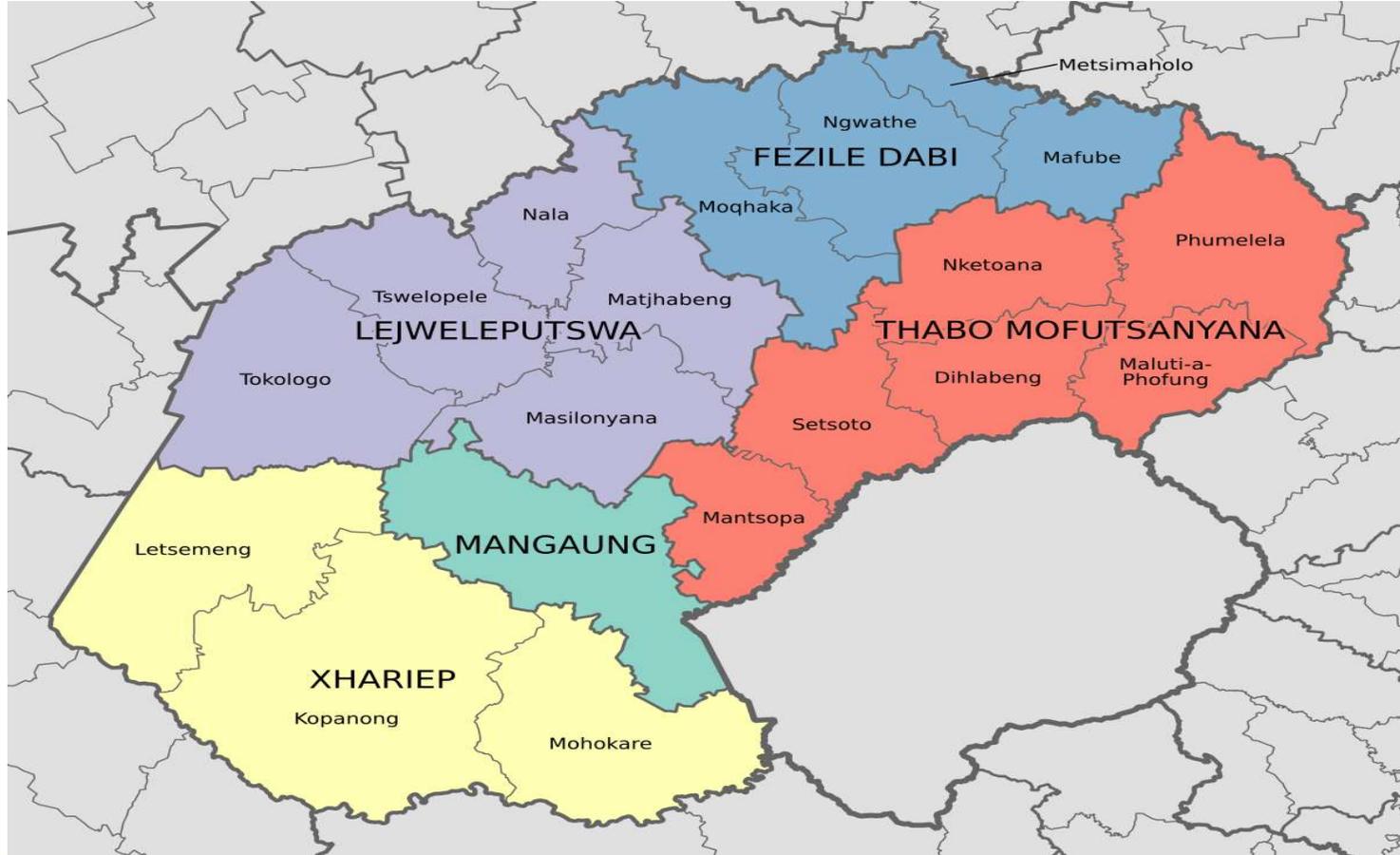
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Introduction

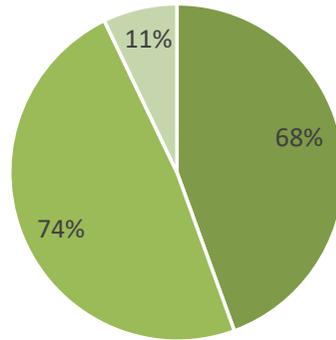




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State of waste management in FS



- Landfill sites that are permitted/licenced
- Landfill sites Environmentally Audited
- Landfill sites that are not permitted/licenced

- FS Province has about 76 municipal landfill site
- Compliance remains the biggest challenge.
- 100% of WMLs are finalised within legislative timeframes.



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Provincial Waste Officers' Report

District	IWM	Designated Waste Official	Landfill Issues
Fezile Dabi	<p>MLM - There process of reviewing the IWMP has started and District municipality will be assisting with the review and report progress monthly to DEFF from September 2020. Draft By Laws Mqk LM: Review of IWMP has started & DM(FD) will be assisting & report progress provided monthly to DEFF from September 2020. Waste bi-laws with penalties available.</p> <p>Mafube LM – IWMP in Review & DM will be assisting with review & report monthly progress DEFF from September 2020</p> <p>NLM - IWMP in Review & DM will be assisting with review & report monthly</p>	<p>Designated WMO</p> <p>Designated WMO</p> <p>Designated WMO</p> <p>Designated WMO</p>	<p>Sasolburg landfill site has reached capacity, new one identified to service Both Sasolburg and Deneysville towns</p> <p>Viljoenskroon – Licensed for closure and there is an application of new landfill site on going</p> <p>Villiers - Licensed for operation, old landfill was reestablished and newly constructed in 2018</p> <p>Vredefort - Not permitted/ licensed.</p> <p>Edenville -Not permitted/licensed.</p>



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Provincial Waste Officers’ Report

District	IWM	Designated Waste Official	Landfill Issues
Mangaung	There is an IWMP for the Metro Waste bylaw needs to be initiated	Designated WMO	All landfill sites are non-compliant with regards to WML conditions, however, are permitted/licensed & registered on the WIS except for Wepener landfill site, application for a licence is in progress.



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Provincial Waste Officers’ Report

District	Designated Waste Official	IWMP	Landfill site status
Thabo Mofutsanyane	All local municipalities have designated Waste Officials.	<p>Waste bylaw needs to be initiated</p> <p>Thabo Mofutsanyana DM- 1st generation IWMP</p> <p>Dihlabeng LM- Draft IWMP</p> <p>Maluti-A-Phofung LM- IWMP adopted but submitted for endorsement by MEC</p> <p>Nketoana LM- 1st generation IWMP</p> <p>Setsoto LM- IWMP adopted and submitted for adoption (IWMP under review by DESTEA)</p> <p>Phumelela LM- No IWMP</p> <p>Mantsopa LM- 1st generation IWMP</p>	All landfill sites are non-compliant with regards to WML conditions, however, are licensed & registered on the WIS except for Petrus Steyn. Memel WML application is in progress.



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Provincial Waste Officers’ Report

District	IWM	Designated Waste Official	Landfill Issues
Lejweleputswa	<p>WMO Not Designated</p> <p>Matjhabeng L.M- Mr Eric Motheoane is the Waste Personnel responsible for Waste management planning and Related Tasks</p> <p>Nala L.M – Mr Fikile Moss Personnel responsible for Waste management planning and Related Tasks</p> <p>Tokologo L.M – Mr S.Mokale is the Personnel responsible for Waste management planning and Related Tasks</p> <p>Masilonyana L.M – Ms Michelle is the Acting Personnel responsible for Waste management planning and Related Tasks</p>	<p>IWMP Lapsed in 2019, Currently Under Review</p> <p>IWMP Formulated in 2017 but not yet adopted by Council</p> <p>IWMP Formulated in 2019 and adopted by Council.</p> <p>IWMP Under Review</p>	<p>Matjhabeng L.M- Not compliant Landfills</p> <p>-DEFF Upgraded the landfill in Odendaal including a Facility for MTRF, but needs additional Skip Bins, Weigh Bridge and upgrading of Access Road.</p> <p>-Welkom Landfill upgraded through MIG (80% complete).</p> <p>-Earmarked as priority area by DEFF, and Will be part of Deputy Ministers intervention.</p> <p>Nala L.M- All Landfills Not Compliant</p> <p>-NPA Pending Law Suit Against Municipality regarding poor Landfill Management</p>



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Provincial Waste Officers’ Report

District	Designated Waste Official	IWM	Landfill Issues
Xhariep	<p>WMO: Not yet designated, MM plays role by default</p> <p>MLM -Waste Personnel: Not appointed, DEFF YCOP Coordinator assists with waste mangmnt planning & related tasks</p> <p>LLM - IWMP was developed with assistance from MISA Mr. Isaac Bonani acting as Waste Management Personnel</p> <p>KLM - Me. Pulane Marotholi is acting as Waste Management personnel</p>	<p>IWMP is in place (needs to be reviewed)</p> <p>Waste bylaw needs to be initiated</p> <p>IWMP needs to be reviewed</p>	<p>All landfill sites are non-compliant with regards to WML conditions, however, are licensed & registered on the WIS except for Luckhoff, Koffiefontein and Jacobsdal</p> <p>New landfill sites are required for Jacobsdal and Koffiefontein (Regional)</p> <p>Landfill Sites: Reddersburg Landfill under planning for construction</p>



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“The Fourth Industrial Revolution (4IR) for South Africa’s circular waste economy”.

Multiplicity of Voices

DESTEA: Vision

“A transformed economy and a prosperous society that is living in harmony with its natural resources.”

UNEP, (2018) reports that about 57% of waste generated in Africa is Organic Waste and has potential for Economic Activities but unfortunately goes to Landfill

DST, (2012) SA’s move away from landfilling towards alternative options that provide value-adding opportunities

- More effective decision-making, faster insertion of context-appropriate technology, export of know-how and technology, and strengthen RDI capability and capacity

Construction Activities Produces about 5.36 Million Tonnes of Solid Waste in SA and 10 jobs can be created per 1000m3 of builders' rubble processed (Green Cape, 2018)

Significant opportunity for research and development, and innovation (RDI) to fast-track a move away from landfilling towards alternatives (Godfrey *et. al.*, 2014)

The Joburg Energy to Waste offset project goes a step further by capturing methane from five landfills sites in Johannesburg and turn it into electricity, solving two serious issues that SA currently faces (Climate Neutral Group).

Achieving 100% diversion from landfill (Scenario 4) would unlock –

- In terms of resource value - R25.2 billion/year
- In terms of resource value + avoided financial and external costs – R46.5 billion/year (scenario analysis)

It suffice to say none of the municipalities are engaged in implementing any of the projects articulated by this multiple voices (Big disconnect), need for more data & researched based decision making.

Managing food sustainably can reduce waste, which saves money, provide a bridge in our communities for those who do not have enough to eat, and conserve resources for future generations (EPA, 2018).



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Multiplicity of Voices

PROBLEM STATEMENT	MEANS	HOW	OPPORTUNITIES
1. 90% OF SA WASTE GOES TO LANDFILL		Strategic planning	Preventing waste, create opportunities for industries
2. IMPUTES ADVERSE ENVIRONMENTAL IMPACT	Human Capacity Development (Political Will)	Modelling and Analytics	Value-Adding & competitiveness
3. MUN. FACE CHALLENGES IN DELIVERING SERVICES AS WELL AS DIVERTING WASTE FROM LANDFILL	R&D Evidence and out put	Technical solutions	Diverting waste create direct & indirect jobs
4. ALTERNATIVE WASTE TREATMENT ARE RELATIVELY MORE EXPENSIVE	Innovation Technical and None (Technology)	Waste and Society	Improved waste magmnt reduces risk to human & Evirntal Health
DST - WASTE ROADMAP			



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Recommendations

- Alignment of all issued WML to current legislation, special attention to be placed on:
 - Existing compliance issues,
 - Facilitating monitoring and evaluation.
- Encourage municipalities to report on WIS
- Roll out waste diversion programmes in municipalities, observing Mantsopa LM separation at source initiative as a successful case study.
- Drawing lessons and strengthening Metsimaholo LM (Vaalpark) Separation at Source centre
- Address specific needs of municipalities.
- Improve on integrated waste management service that supports a waste economy growth.



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Concluding Remarks

- Should we be building more landfill sites or be building industries centered on Waste to curb unemployment & poverty?
- What is the role of technology in Circularity Economy?
- What is the structure and format of the value chain of waste that we envision?
- Does waste have potential for job creation? If yes, to what extent is the opportunity being exploited?
- Do we need more laws or education or Social Marketing to achieve behavioural change?
- Does the geographical position of FS have any significance in re-imagining the national waste management sector?



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Thank You



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GAUTENG PROVINCE

Gauteng Provincial Waste Management Officer’s Report

Presented by: Ms Palesa Mathibeli



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Presentation Outline

- Background
- Provincial Priorities
- Key strategic issues for Waste Management
- Key Programmes
- Covid-19 Response



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Gauteng Socio Economic Status

- The low economic growth environment exacerbated by Covid-19 pandemic.
- For the first quarter of 2020, Gauteng's official unemployment rate was recorded at 31.4%. Including discouraged work seekers, the unemployment rate was 36.3% which translated into over 2.5 million unemployed people in the Province
- The official youth (15-24 years) unemployment rate in Gauteng, a pressing issue for the provincial government, was estimated at 59.3% in 2019. For those aged 25-34 years, it was estimated at 36.6% during the same year
- The food poverty rate, which is also referred to as extreme poverty, is currently estimated at 20.5% of the total population (lower than the national average of 29.4%). This translates to about 3 million Gauteng residents that are living below the food poverty line.
- Because of the lockdown and other COVID-19 related restrictions which have halted economic activity, these trends are likely to worsen in 2020.



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Provincial Priorities and interventions

- Growing Gauteng Together 2030- GGT2030; Committed to a Plan of Action to respond to the global and domestic challenges confronting the Province.
- The GGT 2030 Plan of Action reflects a collective vision for the GCR
- It is about the realisation of the National Development Plan and the Manifesto.
- The GGT 2030 Plan of Action seeks to industrialise and re-industrialise the GCR and contribute towards the industrialisation agenda of the continent.
- Focus will be on spending that stimulates economic growth, especially infrastructure investment
- The alignment of Departments plans and budgets with key priorities.
- Spatial referencing in planning and budget for the MTEF.



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Provincial Mandate

- Constitution- Regulatory & discretionary powers on policy development
- NEM: Waste Act
- National Waste Management Strategy
- Regulations, Norms and Standards etc.
- Waste Information Systems
- Monitoring the performance of municipalities in the implementation of waste plans

Provincial priorities

- GGT 2030- Sustainable development for future generations
- MTSF- Waste minimization; 25% diversion of waste from landfill
- Transitioning towards a circular economy and a solidarity economy
- Landfill Management and Compliance
- Spatial referencing in Provincial planning and budgeting

Pollution and Waste Management Directorate

- **Coordinate Waste Management Activities (policy, planning etc) in the Province**
- **Support Local Municipalities to improve waste services and waste minimization**
- **Manage effective authorisation of waste management facilities/ activities as required in legislation.**
- **Management of waste information through the Gauteng Waste Information System (GWIS)**

Municipal Support

- Support SMMEs and cooperatives with recycling facilities and buyback centres with recycling equipment to improve the sustainability of the waste minimization in the Province
- Provide Training to SMMEs, Cooperatives and informal waste sector ; Assist Cooperatives to formalise their businesses with registration at the DTI.
- Auditing of Landfills and reviewing audit reports; Monitoring of waste collection and cleansing Standards
- Supporting municipalities planning and coordination including some implementation of ke programmes.

Authorisation and WIS

- Issue licences for general waste activities in terms of the Waste Act.
- Implement the Gauteng Health Care Waste Management Regulations of 2004.
- Implement the Gauteng Waste Information Regulations of 2004 through Gauteng Waste Information System.
- Process registration for storage, sorting, etc of general waste in terms of National Norms and Standards.

Waste Separation @ Source/ Waste Minimisation

- Ensures that the illegal dump sites are rehabilitated.
- Ensures that waste is separated at source (GDARD offices) and diverted from landfill sites.
- Mandate to be extended to develop Waste Minimisation Regulations; monitor waste minimisation activities; support infrastructure development e.g. MRFS, Composting etc.



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Solidarity Economy

Formalisation of informal waste reclaimers/pickers and ensuring sustainability of the existing SMEs, buy back centres and cooperatives

Circular Economy

Unlocking the opportunities in the secondary raw material value chains within the sector in Gauteng will be a key driver of the circular economy in the Province

Sustainable landfill Management

Addressing landfill non-compliance; ensuring proper planning and budgeting; cost reflective tariffs; transitioning into integrated waste management facilities to maximises waste diversion.



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Key Strategic Issues in the Province

- Landfill airspace crisis
- Fast-tracking of Waste minimization/ separation @ source
- Funding for waste services and waste infrastructure
- Compliance and enforcement
- Gauteng Waste Information System
- Integration/ organising the waste informal sector; upscaling of existing waste recyclers
- Development of enabling regulations/ norms & standards
- Review of the IWMP to ensure alignment with the NWMS



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Priority Programmes

GGT Measure of Success (Captured as-is from published GGT2030 Document)	Reprioritised (Yes/No)	Location (APP, Del Agr or Both)	Output (Map and enter APP Output to Strat Plan Outcome/ GGT Priority action to achieve and GGT measure of success)	Output Indicator (Enter indicator related to the Output)	Target (Enter annualised Dept Programme/ Output/ indicator targets)			Budget (Enter annualised Dept Programme/ Output Budget)			
					5 Year Target	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
Cooperatives supported in recycling efforts, with emphasis placed on ensuring these role-players hold at least 10% of the recycling market share.	No	Ops Plan/ Delivery	A total of 175 SMMEs and waste recycling cooperatives will be supported with recycling equipment and capacity building over a period of 5 years.	Number of waste recycling cooperatives (facilities) supported.	175	35	35	35	R5m	R5.5m	R6m



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					5 Year Target	2020/21	2021/2	2022/2	2020/2	2021/2	2022/2
Established, and 200 waste management recycling cooperatives, facilities and buy-back centres trained and supported.	Yes	Ops Plan/ Delivery both	The target of training 200 beneficiaries will be affected in the 20/21 FY due to the Covid 19 pandemic.	The initial output indicator was 250 trained SMMES and waste recyclers and cooperatives over 5 years (50 annually). This target has reduced to 200 over 5 years	250	0	50	50	300k	350K	400K



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					5 Year Target	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
Formalisation of waste recyclers and Cooperatives	No	Ops Plan/ Delivery both	Number of Waste Management Recycling Cooperatives assisted with registration with DTI (buyback centers in townships)	The initial output indicator is 250 Cooperatives and waste recyclers registered with the DTI over 5 years	250	50	50	50	250k	250k	300k



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					5 Year Target	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
A total of 25% of waste diverted from landfill sites by 2024, three waste reclamation centres (material recovery facilities) established, and 200 waste management recycling cooperatives, facilities and buy-back centres trained and supported.	No	Delivery Agreement	The diversion of Waste from landfill is the Primary function of municipalities. The Province will support the municipalities to achieve the 25% diversion target through development of enabling Regulations for Waste Minimisation for implementation in 21/22 FY. Separation at source and development of MRFS should be fasttracked. In 2020/21 FY a feasibility study on the status of MRFs in Gauteng will be conducted. The National DEFF will be approached for funding for establishing the facilities. Improvement reporting on GWIS will provide correct reporting	25% of waste diverted from the Landfills	25%	10%	15%	20%	0	R1m	R1m



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					5 Year Target	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
Rehabilitation of Illegal dumping into parks and community gardens	No	Ops Plan/ Delivery/ Other	Support municipalities in rehabilitating problematic illegal dumping spots into more sustainable livable areas in communities	The initial output indicator is 32 in the next 5 years	32	0	10	10	R1,5m	R1,7m	R2,0m



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Other Priority Areas

Priority	Action
Policy and planning	<ul style="list-style-type: none"> • Development of Waste Minimisation Regulations • IWMP due for review in 21/22
Formalisation/ organisation of the Waste Pickers & upscaling of the buy-back centres	<ul style="list-style-type: none"> • Partnership with municipalities; particularly on provision of land • Partnership with private sector • Database and mapping of waste pickers activities
Improvement of the GWIS and reporting	<ul style="list-style-type: none"> • Continue to enhance the GWIS • Ensure improved reporting
Monitoring and Auditing	<ul style="list-style-type: none"> • Monitoring waste collection and cleanliness standards- smarter and more sustainable approach • Monitoring and Auditing landfills in partnership with Compliance and Enforcement
Licensing and Authorisation	<ul style="list-style-type: none"> • Within legislated timeframes (Waste licenses; Norms & Stds; HCRW, Transboundary)
Coordination of Waste management in the Province	<ul style="list-style-type: none"> • Support for municipalities- Waste Managers Coordination Meetings • Coordinated planning • Waste Forum; GWIS Workshops • Partnerships with the private sector/ industry



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	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
Training of Cooperatives/ Waste recyclers	-	15	47	36	51	50
Supporting waste recyclers with Equipment	8	5	19	38	14	75
Formalisation of cooperative through DTI registrations	-	10	26	-	50	50
Rehabilitation of illegal dumping into parks	-	-	-	5	-	5 (60 EPWP Jobs)
Provision of 240l bins at Emfuleni	-	-	-	-	-	20000
Donation of 3-wheeler vehicles	-	-	-	-	-	200 to ~76 beneficiaries



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Covid 19 Response relating to Waste

- Developed Waste SOP as part of the Environmental Health workstream
- Reporting on the waste management to the Provincial work streams
- Coordination of Municipalities and information requirements
- Response to queries and provision of guidance to both municipalities and private sector
- Waste Business Continuity- review of applications, GWIS enhancement project & administration
- Coordination of Waste Pickers Relief Programme in the Province on behalf of DEFF
- Clearing of illegal dumping hotspots, decontamination & disinfection programme
- Currently experiencing increased number of waste applications since reopening of industry.
- Quarterly Waste Forum, GWIS (will arrange webinar), Training of beneficiaries and Waste Summit cancelled for 2020-21FY.

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KWA-ZULU NATAL PROVINCE

Kwa-Zulu Natal Provincial Waste Management Officer’s Report

Presented by: Ms Noloyiso Walingo



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Presentation Outline

- KZN Status Quo
 - KZN situational analysis
- Implementation of NWMS in KZN (Goals 1 to 8)
- Circular Economy in KZN
- Conclusion

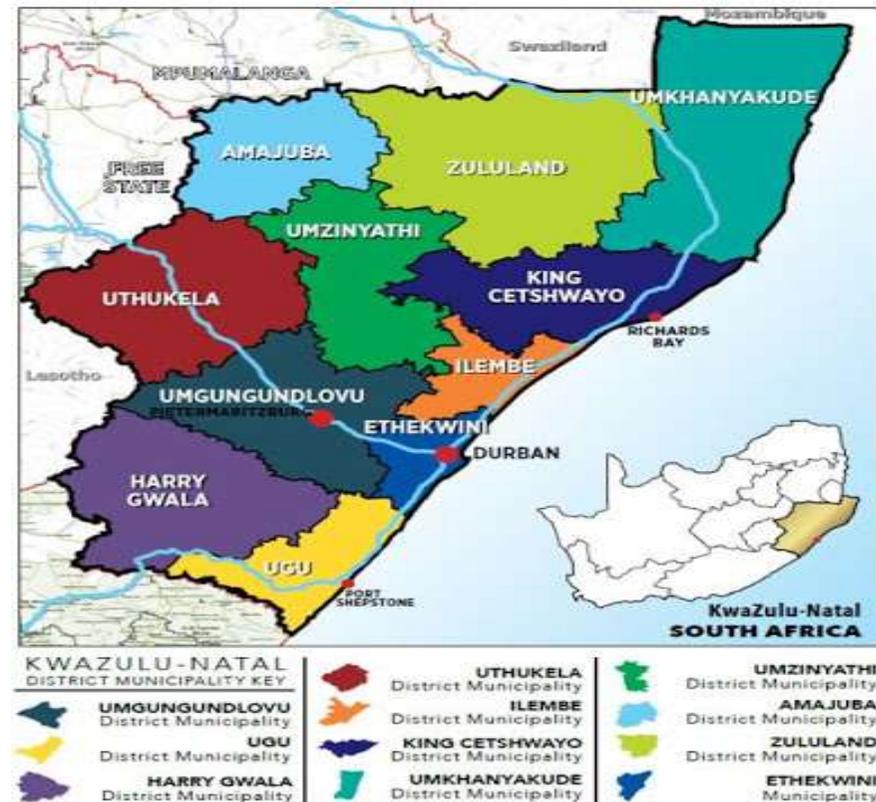


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“Prosperous Province with a healthy, secure and skilled population, living in dignity and harmony, acting as a gateway to Africa and the world”

Population	11,4 million people (19,2%) living in this province
Pop gender composition	51.1% females
No. of DMs	10
No of Metros	1
No of LMs	43

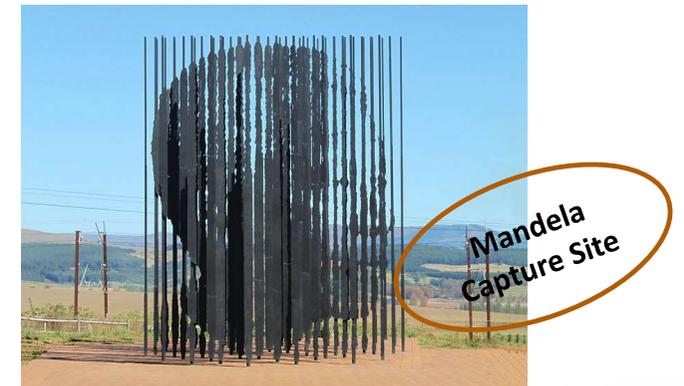
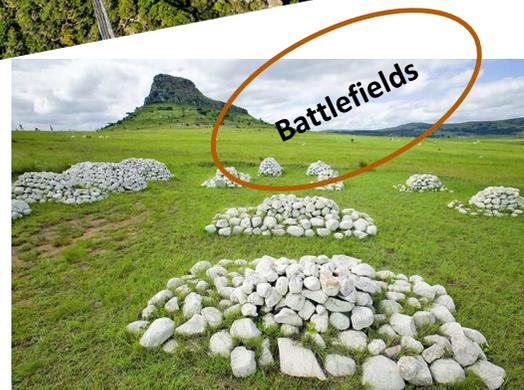
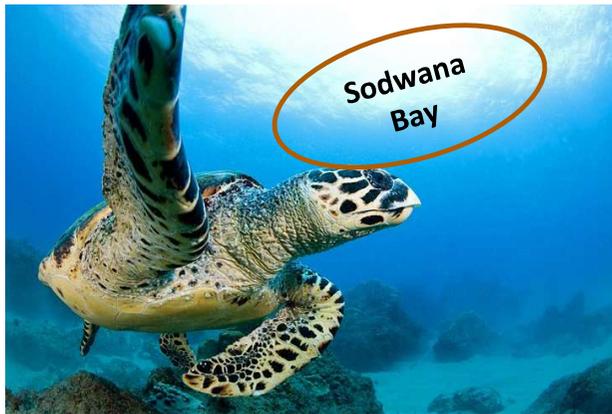




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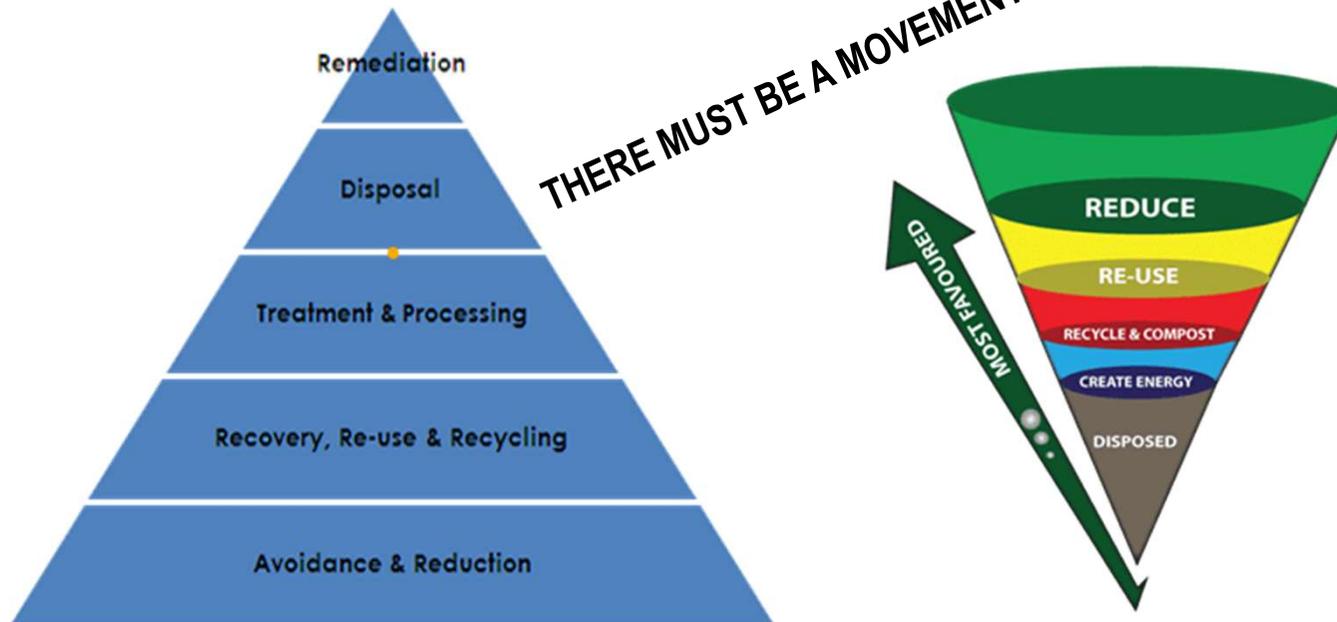




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KZN SITUATIONAL ANALYSIS



Poor implementation of the waste management hierarchy results to limited the economic potential of the waste management sector, waste disposal being preferred over other options



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KZN SITUATIONAL ANALYSIS

- State of Waste Report, 2018, Chapter 3 states that in KwaZulu-Natal, waste collection service to communal/own refuse dump was 48%.
- This situation contributes to the poor state of the environment in the Province.
- Recycling
- Landfill compliance
 - 44 landfill sites which are owned by the local municipalities
 - Further 4 landfills have been licensed and are under construction phase)
 - 98% of landfill sites are permitted
 - Latest 2019/20 audit on 40 landfill sites – 58,1% compliant overall average, lowest compliant being 22% across all districts
 - COVID waste management and monitoring



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PERFORMANCE IN TERMS OF NWMS GOALS

Goal 1: Waste minimization, reuse and recovery

- Recycling is practiced – waste picking at waste & separation at source at household level
- Waste Disposal – 4 206 035 tons
- Waste Treatment – 1 833 532 tons
- Hazardous waste Recovery or Recycling- 7 786 489 417 tons
- General Waste recovery or Recycling= 12 491 348 ton
- Province in General is approximately 24% Facilities Reporting
- Municipal owned landfill sites only 33% are Reporting to SAWIS
- More than 140 recycling operations
- Accuracy of information on quantities of waste in terms of reporting is a challenge



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Goals2: Efficient delivery of waste services

- Compliance with National Domestic Waste Collection Standards
- **KZN meets the standards waste collection once a week in residential areas and more than once in industrial areas.**
- Central skips are used in some semi-urban and rural areas.
- Rural areas largely not serviced with skips due infrastructure challenges and budget for extension of services beyond urban.
- Even where there are services in rural areas, not monitoring in respect of disposal and collection thereof.
- 98% of landfill sites are permitted.



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Goal 3: Growing the contribution of the waste sector to the green economy

- Initiative to establish District Impact Project (DIP) aimed at supporting waste economy (small and emerging recyclers) through the procurement of working equipment for operations. Budget of R1m.
- In 2019 the Department launched and implemented Operation Vula Fund programme to assist recycling sector with equipment from. Tier 1 : R1 – R200; Tier 2: R201 – R500 00; Tier 3: R501 - R2m.
- Municipalities support recyclers with areas for sorting yards at waste transfer station sites and in landfill sites; employment through EPWP.
- Municipalities support with allocation of land as sorting yards – these operate in terms of Norms and Standards.
- KZN has about 3000 waste pickers in the database.
- More than 140 recycling operations .`
- Developing metadata and economic impact analysis tools to track and monitor participation of small/emerging recycling operations in the economy



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Goal 4: Awareness on the impact of waste on human health and environment

- Department, municipalities, entities, private sector, schools, community formation, youth, etc. jointly conduct education and awareness in various forms.
- KZN implements School Environmental Education Programme (SEEP) each year where schools are assessed and awarded for achieving various aspects of environmental management.
- The programme address challenges pertaining to waste management, and establishment of greening projects, climate change, etc.
- Joint clean-up campaigns and workshops on waste management by EDTEA and municipalities to communities.
- Recycling operations education
- KZN has a target of 100 clean-ups for 20/21 to focus on the worst polluted areas .
- Challenge is change in mindset.
- Probably also need to change form of delivery in the era of 4th IR, and be more business focused

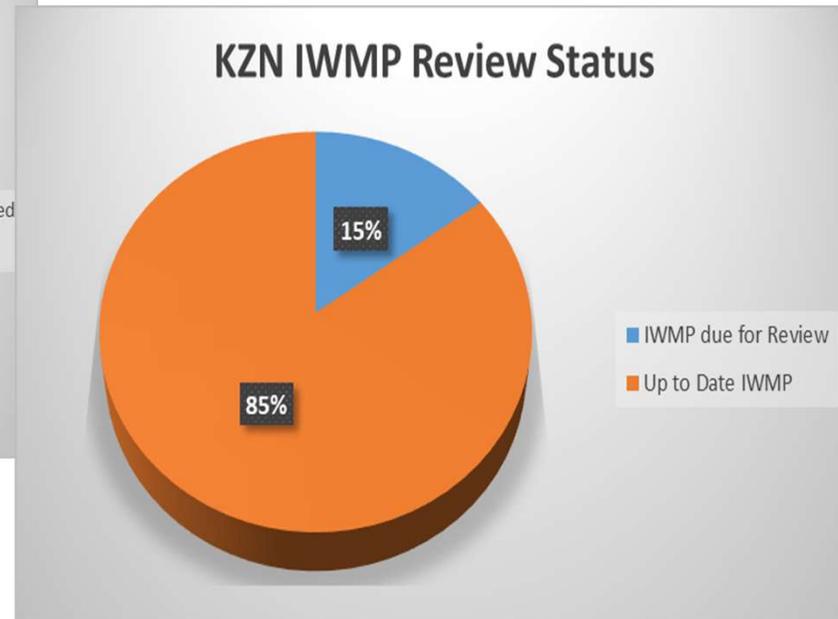
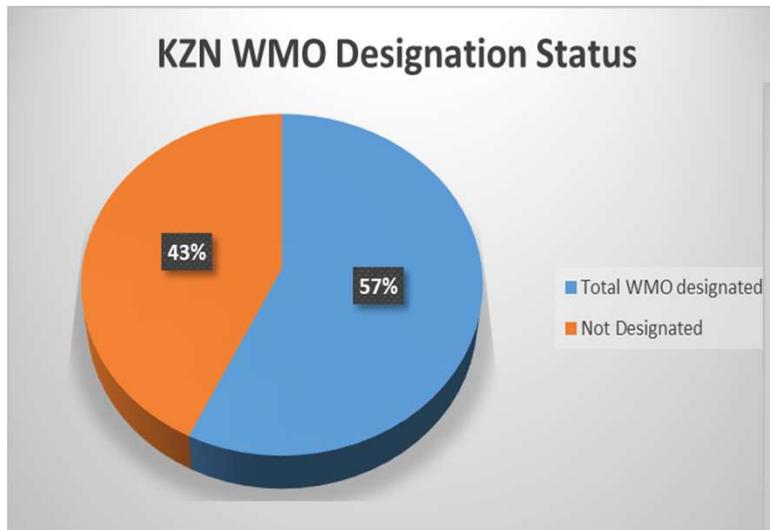


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Goal 5: Achieve integrated waste management planning

Currently developing IWMP and designating WMO for the Province

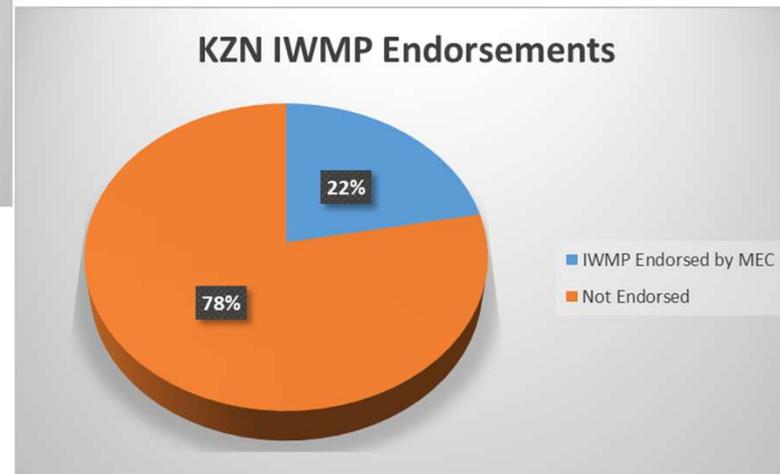
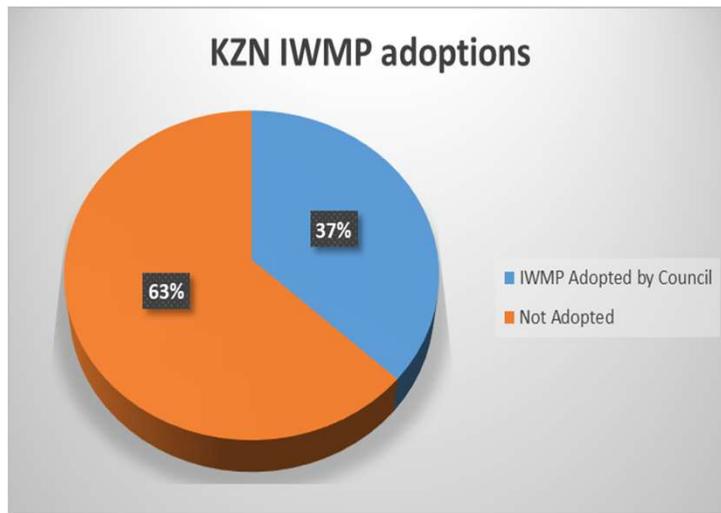




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Goal 5: Achieve integrated waste management planning cont'd.





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Goal 6: Ensure sound budgeting and financial management

In general the cost of municipal operations are higher than the revenue.

Serious challenge of financial resource allocation

5% MIG fund challenge

Appetite for application for specialised vehicles is promising



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Goal 7: Measures to remediate contaminated land



The role of EDTEA is to identify and refer contaminated land to DEFF.

No updated register beyond 2012/13

DEFF and DMR mostly play a critical role



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Goal 8: Effective compliance and enforcement of the Waste Act



**147 EMIs, excluding
EKZNW**



**250
issued**



900

- Implementation of Implementation Protocol – EMIs to perform EMI duties and reporting to DEFF.
- Waste Dialogue survey questionnaires - Fines paid – not sufficient to prohibit illegal dumping. In some areas enforcement is performed by Peace Officers employed as Traffic Officers which are not trained as EMIs.



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- **CIRCULAR ECONOMY PROJECT IN KZN**
- KZN nominated by DEFF to take part in their Industrial Symbiosis Project where opportunities for exchange, reuse and recycling of Industrial waste will be explored and quantified both in volumes, financial value, and potential job creation.
- EDTEA, through the National Centre for Cleaner Production (NCPC) commissioned a project “Opportunities to move towards zero waste and develop SMMEs through the beneficiation of waste streams in KZN”.
- The main purpose of the project is to identify a single waste stream which lends itself to beneficiation opportunities for the development of the maximum number of Small, Medium and Micro Enterprises (SMMEs) that will be owned by women, youth, disabled and previously disadvantaged blacks



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• CIRCULAR ECONOMY PROJECT IN KZN

Specific aims of the study are to:

1. Identify waste streams which will lend themselves well to the development of a business plan framework that can be applied by multiple SMME's throughout the province to beneficiate a waste stream prioritised by the study.
2. Prioritise waste stream(s) that lend themselves to the development of the maximum number of SMMEs with suitably low barriers to entry (technological, capital requirements, training requirements, legal compliance, handling restrictions and operational inputs); and that will thereby provide income-generating opportunities for women, youth, the disabled and previously disadvantaged individuals in the Province.
3. Select and describe the prioritised waste stream in terms of the following: a) Estimated quantities, and visual characteristics of the wastes; and b) Spatial distribution of the waste streams
4. Provide technology advice and recommendations, together with a generic business plan template that can be rolled out to multiple potential SMMEs in the province and can be customised for a specific SMME.
5. In conjunction with Aim 1 above, the broad waste streams identified will be generally ranked in terms of the degree of complexity and indicative cost to establish known beneficiation products.



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• CIRCULAR ECONOMY – continues

In summary:

- ORGANIC WASTE STREAMS had the highest score, especially when considered as a single category (including other biomass or food waste from institutions).
- In terms of prioritising this diverse group it is recommended that where possible preference should be given first to FOOD WASTE where this is available from public institutions such as prisons, schools, crèches, feeding schemes, hospitals etc.
- Based on the application of different Anaerobic Digestion technologies identified (continuous, batch or Fixed film as required) this will assist in contributing to energy provision and good soils (as meeting the SDG goals as discussed through also contributing to self-sufficiency).
- COMMERCIAL SOURCES OF BIO-WASTE (i.e. Other or specifically waste from sugarcane milling operations, and sawmills) should be explored where these opportunities exist. Sewerage sludge (from non-industrial processes) may be utilised from institutions as a co-digestant.

The project is at Phase 1 stage - Identify and Prioritise Waste Streams



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CONCLUSION

- The onset of 5G technology is expected to improve technological precision and accuracy by many folds something that will result in less waste being generated in manufacturing and service provision across the board.
- The 5G revolution will require skilled instrument operators, technicians and IT & electronics specialists which will result to job creation.
- The training of the waste sector in these skills is paramount in ensuring minimal future job losses as a result.
- Use of mobile apps for recyclable among waste generators- linked to symbiosis concept- advantageous but have the potential of cutting out the informal waste pickers
- Usage of Drones in the sector- part of compliance and enforcement to enhance the waste economy.
- Use of automated municipal yellow waste vehicles for collection of waste .

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MPUMALANGA PROVINCE

Mpumalanga Provincial Waste Management Officer’s Report

Presented by: Mr Eric Sambo



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OUTLINE

- NWMS IMPLEMENTATION
- STATUS IWMP
- CHALLENGES
- INTERVENTIONS



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National Waste Management Strategy

- **1. Promote waste minimization, reuse, recycling and recovery of waste**
- Non financial support is given to recyclers in the Province, e.g PETCO & RESP training
- Registration of Recyclers and Transporters for gain is ongoing
- Provincial Database for recyclers/ Transporters for gain is being developed.



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- **2. Ensure the effective and efficient delivery of waste services.**
- All municipalities provide waste collection services except in the most rural areas.
- All the municipal landfill sites and transfers stations are licensed (operation and closure)
- Six Waste Licences issued during 2019/20



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- **3. Grow the contribution of the waste sector to the green economy.**
- EPWP personnel appointed under Environmental Empowerment Unit.
- Youth jobs in waste also appointed at our local municipalities
- 67 Zonda Insila Program (ZIP) participants appointed in all 3 districts.



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4. Ensure that people are aware of the impact of waste on their health, well-being and the environment

- Awareness programmes in place
 - Greenest Municipality Competition.
 - Climate change schools programme - Water harvesting projects in 6 primary schools.
 - Commemoration of all Environmental related days are celebrated.
 - Clean up campaigns are done



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• 5. Achieve integrated waste management planning

- All municipalities have IWMP's (Some require review) Recently reviewed (Nkomazi LM & Steve T LM) and Bushbuckridge LM just submitted.
- Most municipalities WMO are designated (Excp. Province, Nkangala DM, Chief Albert Luthuli ML, Dipaliseng LM,
- Waste By laws (some have but they are outdated) need reviews.
- Some municipalities are reporting on SAWIS.
- Provincial Waste Officers Forum are in place but due to lockdown did not convene this year.



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- **6. Ensure sound budgeting and financial management for waste services.**
- Municipalities don't budget enough for waste management services
- No budget provision for waste management projects in the Department (DARDLEA)



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- **7. Provide measures to remediate contaminated land**
- No register for contaminated land for the Province
- National Register reliance.



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- **8. Establish effective compliance with and enforcement of the Waste Act**
- 12 EMI's have been trained to ensure compliance and enforcement is achieved / Local EMI's require designation.
- Capacity at local level is a challenge to enforce waste by laws.
- Joint Compliance inspections are planned to be conducted quarterly to targeted facilities, due to lockdown none so far.



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INTERGRATED WASTE MANAGEMENT PLAN

- Awaits gazetting and endorsement process.
- Will be submitted to DEFF for approval as soon as all due process have been finalized. Start reporting on implementation.
- Most Municipal IWMP review completed. (Some still need reviews)
- Provincial IWMP finalized- March 2019



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CHALLENGES

- No budget provision for Waste projects by the department(DARDLEA)
- Inadequate funding to implement waste management projects at municipalities level.
- Lack of support or buy in and prioritization of waste projects by the municipalities
- Non compliance to waste license conditions
- Lack of fleet and infrastructure



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CHALLENGES CONT.....

- Lack of personnel (only seven officials for the Province)
- Non submission of IWMP implementation progress report by municipalities
- Lack of waste services provision in the most rural areas
- Some Municipal IWMP and Waste by laws outdated
- SAWIS reporting also a challenge by some locals and industries



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INTERVENTIONS

- SAWIS Capacity building & Data verifications conducted with all the locals . (Lockdown affected planned activities)
- Waste licenses were issued to 100% in all the local municipalities in the Province
- Support local municipalities during the reviews of IWMP's (Bushbuckridge and Nkomazi)
- Support Local municipalities through MIG funding.eg BBLM Regional Landfill site.

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NORTHERN CAPE PROVINCE

Northern Cape Provincial Waste Management Officer’s Report

Presented by: Ms Dineo Kgosi



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"The Fourth Industrial Revolution (4IR) for South Africa's circular waste economy".

Presentation outline

- Introduction
- NWMS Goals and progress
- IWMP Progress
- Future plans
- Conclusion



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Introduction

- Northern Cape has a population of about 1.9 M with 27 Local Municipalities and 5 district municipalities.
- Waste management facilities landscape: 119 waste disposal sites, 92 Municipal and 27 Private sites.
- Compliance to license conditions remains the biggest challenge
- Waste recycling is practiced but can be improved, need to move for secondary processing



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National Waste Management Strategy (NWMS) goals in transition

NWMS GOALS	Progress on implementation
1. Promote waste minimization ,re-use, recycling and recovery of waste	<ul style="list-style-type: none"> • Financial support to recyclers-Procured 2 storage skips, cleaning equipment and bins • Accredited training with the support of PETCO.
2. Ensure the effective and efficient delivery of waste service	<ul style="list-style-type: none"> • Trained 80 municipal officials in Waste and 10 councilors
3. Grow the contribution of the waste sector to the green economy	<ul style="list-style-type: none"> • Awarded R 430 000 through the GMC so they can do greener technologies
4. Ensure that people are aware of the impact if waste on their health, wellbeing and the environment	<ul style="list-style-type: none"> • Good Green Deeds programs were carried out throughout the districts by means of awareness workshops, clean up campaigns. • Implementation of waste separation at source in 2 municipalities



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NWMS Goals continued

NWMS GOALS	Progress on implementation
5. Achieve Integrated waste management Planning	<ul style="list-style-type: none"> • Contribution in District environmental forums by giving legislative updates
6. Ensure sound budgeting and financial management for waste	<ul style="list-style-type: none"> • Training to municipalities across the province with the assistance of DEEF
7. Provide measures to remediate contaminated land	<ul style="list-style-type: none"> • DEFF rehabilitated roads in Prieska and Heuningvlei and school grounds in Ga-Mopedi
8. Establish effective compliance with enforcement of waste act	<ul style="list-style-type: none"> • Referral of gross noncompliance cases for enforcement



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Progress o the provincial IWMP

- The plans to review the Provincial IWMP are under way for completion by end November
- All municipal IWMP's will then be reviewed so they can be aligned to the provincial one



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Plans for the next Five years

- Alignment of all issued WML to current legislation
- Roll out waste separation at source in all municipalities
- New generation By-Laws
- Customizing tariff models for waste services for municipalities
- Annual Upgrading of landfill project
- Financial support to waste recycling projects



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Conclusion

- Proper waste management function requires a concerted effort by all interested and affected parties whereby available infrastructure and budget will meet the required service delivery requirements.
- DENC will continue to offer technical and financial support when necessary and as per the availability of funds

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North-West Province

North-West Provincial Waste Management Officer’s Report

Presented by: Ms Basadi Moselakgomo



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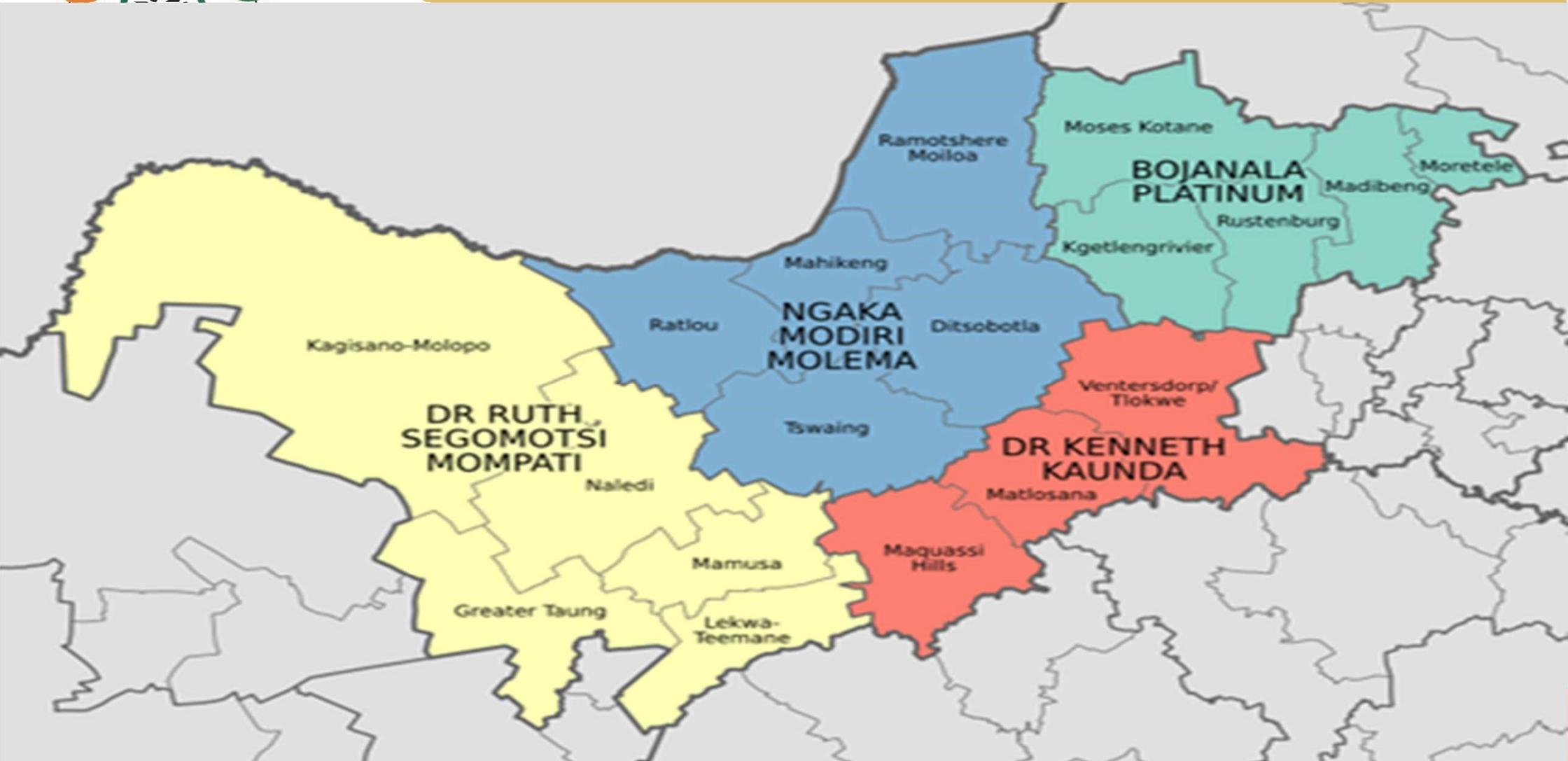
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Goal 1: Promote waste minimization reuse, recycling and recovery of waste

- Separation of waste at source (3) - Rustenburg LM (Royal Bafokeng); JB Marks (Potchefstroom) and Ngaka Modiri Molema will be piloting in Mahikeng LM
- The establishment of Storage/sorting/shredding/baling facilities - (35 registered)
- **JB Marks LM and Mahikeng LM** : In process to resuscitate their Recycling Forum
- Recycling workshops were conducted at :
 - Madibeng LM
 - Rustenburg LM
 - Mahikeng LM
- 8 buyback centres



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Goal 2 : Ensure the effective and efficient delivery of waste services

- 100 % urban weekly collection in all municipalities (Kerb site).
- Rural - Moses Kotane 100 %, Ratlou LM 100%, **Rustenburg LM 92%**, Madibeng 70% and Mafikeng LM 54% and Moretele LM 100%
- 97 % of Waste Disposal sites are licensed (69 of the 71 sites). EAP already appointed by DEFF
- 15 Waste management licenses for variation, one withdrawal and S24G were issued within legislated time frame.

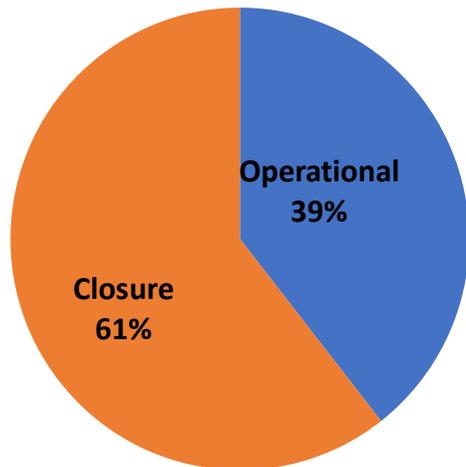


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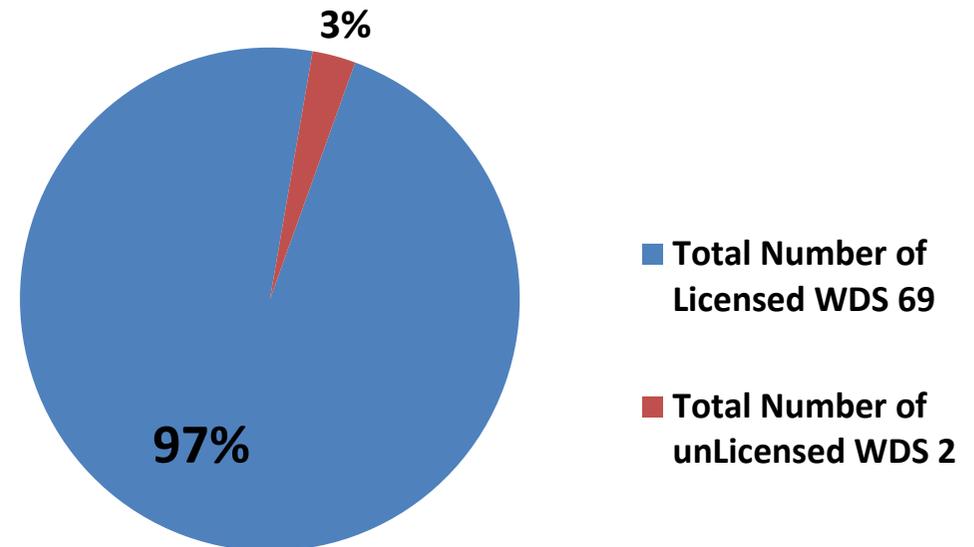
Goal 2 : Ensure the effective and efficient delivery of waste services

Waste Disposal Sites



■ Operational ■ Closure

LICENSED WDS



■ Total Number of Licensed WDS 69
■ Total Number of unLicensed WDS 2

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Goal 3 : Grow the contribution of the waste sector to the green economy

- Sun City composts garden refuse
- JB Marks LM (in partnership with NWU) piloted project on composting of sludge and garden refuse as manure
- Establishment of Madibeng composting facility. (Privately owned - Kanosis)
- Proposed establishment of Mahikeng composting facility.
- **241** Green jobs created



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Goal 3 : Grow the contribution of the waste sector to the green economy Cont.....

- Rural Waste Management Strategy was approved by the MEC in Jan 2020 and noted by Minister on 12 Aug 2020.

Objectives	Target
1. Investigate recycling initiatives	Establish Material Recovery Facility
2. Organic Waste Treatment or Composting	Establish at least one Composting plant within 5 years of approval of Strategy
	Ensure separation at source and treatment, for garden and other organic waste within 5 years of approval of Strategy
	Establish number of strategic garden refuse collection points



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Goal 4 : Ensure that people are aware of the impact of waste on their health well-being and environment

- Presentations were made at eight (8) Portfolio committee meetings
- 4 Provincial waste Forum and 5 District Forum
- 4 Thuma Mina Good Green Deeds activities conducted
- 7 SAWIS training were conducted (4 Municipalities and 3 private sectors)
- Waste Characterisation done at 12 Local Municipalities.
- Educational talks on pollution prevention were conducted at 28 schools.
- 43 environmental awareness campaigns conducted in schools
(921 learners and 44 educators were reached through Environmental Education Programme)

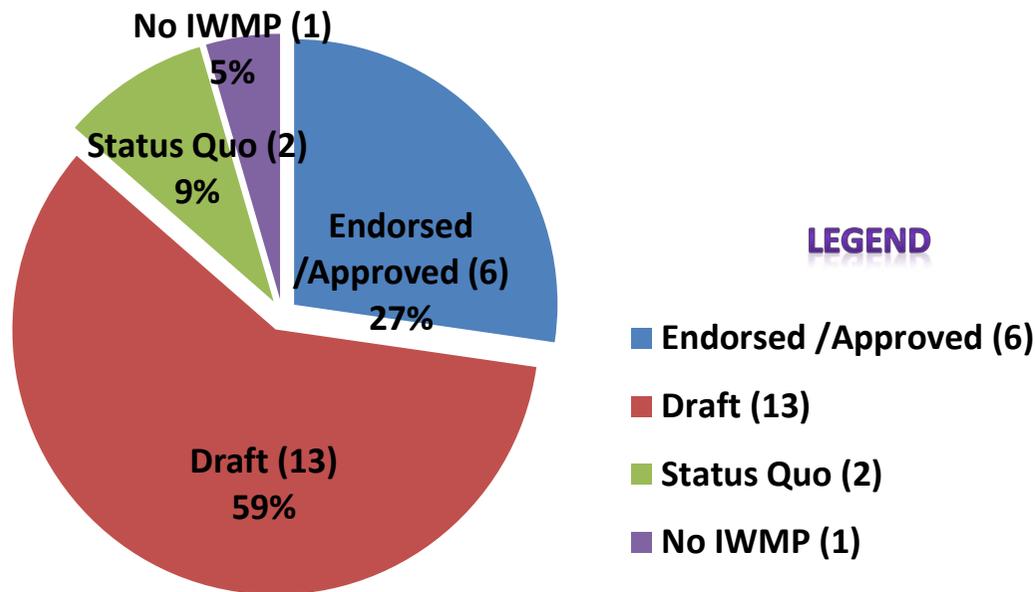


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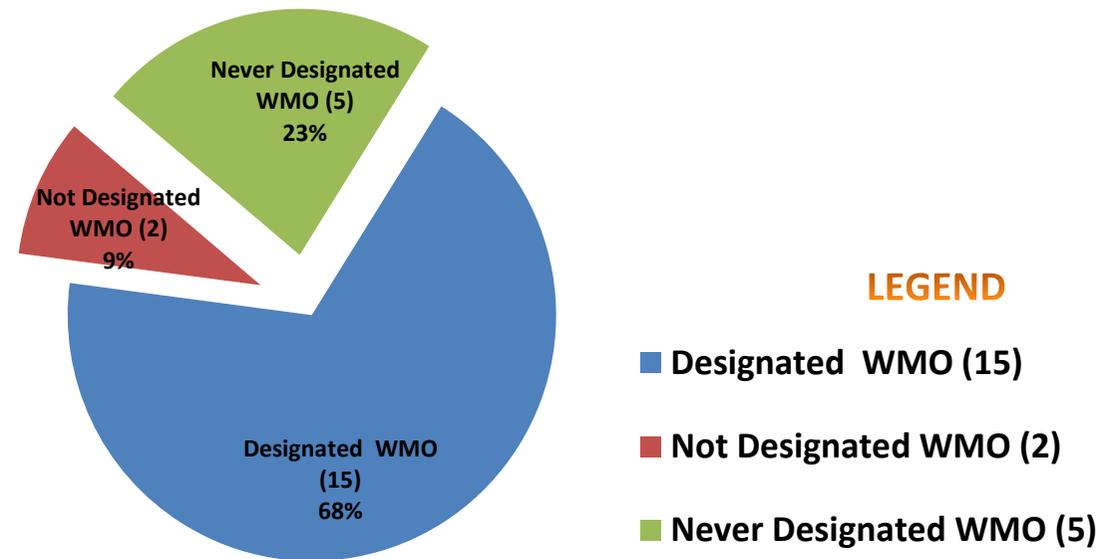
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Goal 5 : Achieve integrated waste management planning

Integrated Waste Management Plans



Waste Management Officer





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Goal 6 : Ensure sound budgeting and financial management for waste services

- Collection of funds at landfills at two Municipalities
- All Municipalities are continually trained on Waste Tariff Model
- Some Municipalities adopted Tariff Model but not implementing
- *Revenue collected for the services rendered in some municipalities is less than operational costs due to non-payment for services by rate payers.*



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Goal 7 : Provide measures to remediate contaminated land

- National Contaminated Land Register was circulated in August 2018 (DEFF)
- 14 contaminated areas were registered in the NWP.
- Burrow pits were identified through the Rural Waste Management Strategy and some were prioritised for proper rehabilitation (especially that triggers waste listed activity).
- Moses Kotane LM fenced two sites and the third one was used as a dumping site.
- Madibeng LM – three sites were identified (with co-ordinates)
- Moretele LM – one is used as a dumping site in Maubane village



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Goal 8 : Establish effective compliance with enforcement of the Waste Act

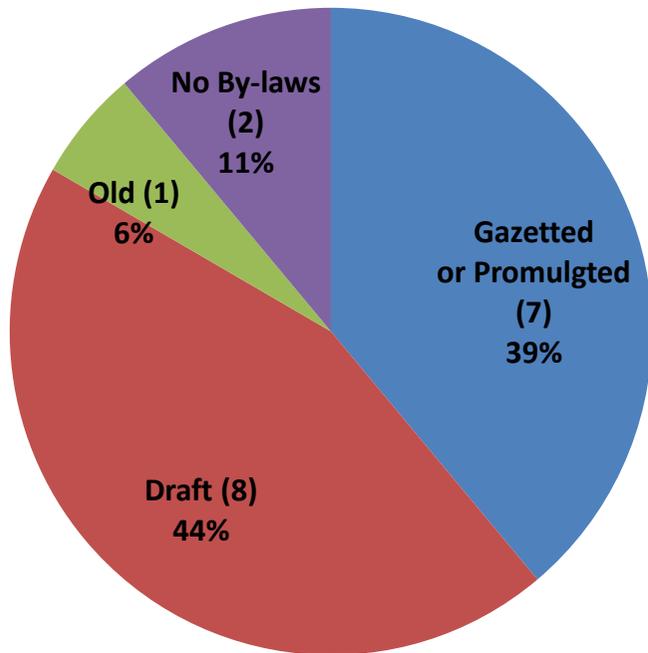
- 8 Compliance notices were issued .
- 32 Pre-Compliance notices issued
- 2 Directives issued
- 7 Compliance and enforcement blitz were conducted
- Action plan developed for some municipalities
- Joint inspections at 19 Landfill sites and 10 waste related complaints
- Continuous Municipal support visits
- Bylaws: 39% (7 – post 2008)



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BY-LAWS

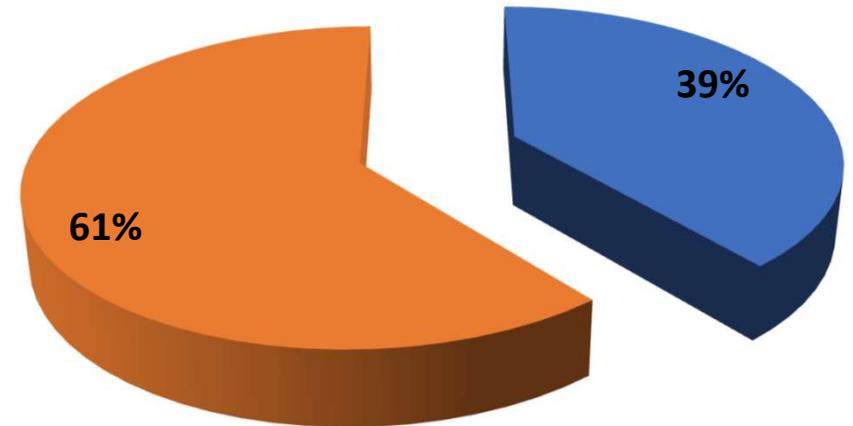


LEGEND

- Gazetted/Promulgated (7)
- Draft (8)
- Old (1)
- No By-laws (2)

WDS Compliance

■ Compliant > 50% ■ Non compliant < 50%





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Challenges

- Municipalities reports lack of financial support and inadequate capacity as the causes of non-compliance..
- Contractors appointed to operate the sites, but sites were still operated poorly. Contractors also did not have proper equipment to operate the sites.
- It was also observed that funding assistance provided to some municipalities does not lead to improved conditions on site. Some installed infrastructure like Material Sorting Facilities that are not utilised.



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Challenges

- Municipalities developed IWMPs, but no Council Resolutions, thus cannot be endorsed
- Devolution of powers and functions with the District Municipality, thus affecting budget allocation and access to MIG Funding to improve waste management services.
- Limited staff availability to develop IWMP internally etc....

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WESTERN CAPE PROVINCE

Western Cape Provincial Waste Management Officer’s Report

Presented by: Mr August Hoon



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Presentation Overview

1. WC 2nd generation IWMP
2. Waste governance platforms
3. Municipal Integrated Waste Management Plans
4. Designation of Waste Management Officers
5. Compliance Status of Waste Management Facilities
6. State of waste management in WC
7. Municipal waste management by-laws
8. Landfill Airspace Availability
9. Waste diversion
10. Response to landfill airspace challenges
11. Strategic Plan/Conclusion



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'Waste is just a resource that's in the wrong place.'



WC 2nd generation IWMP (2017-2022)

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Guide waste management in the WC

- **Vision**
 - Build a resource-efficient society that ensures a clean environment



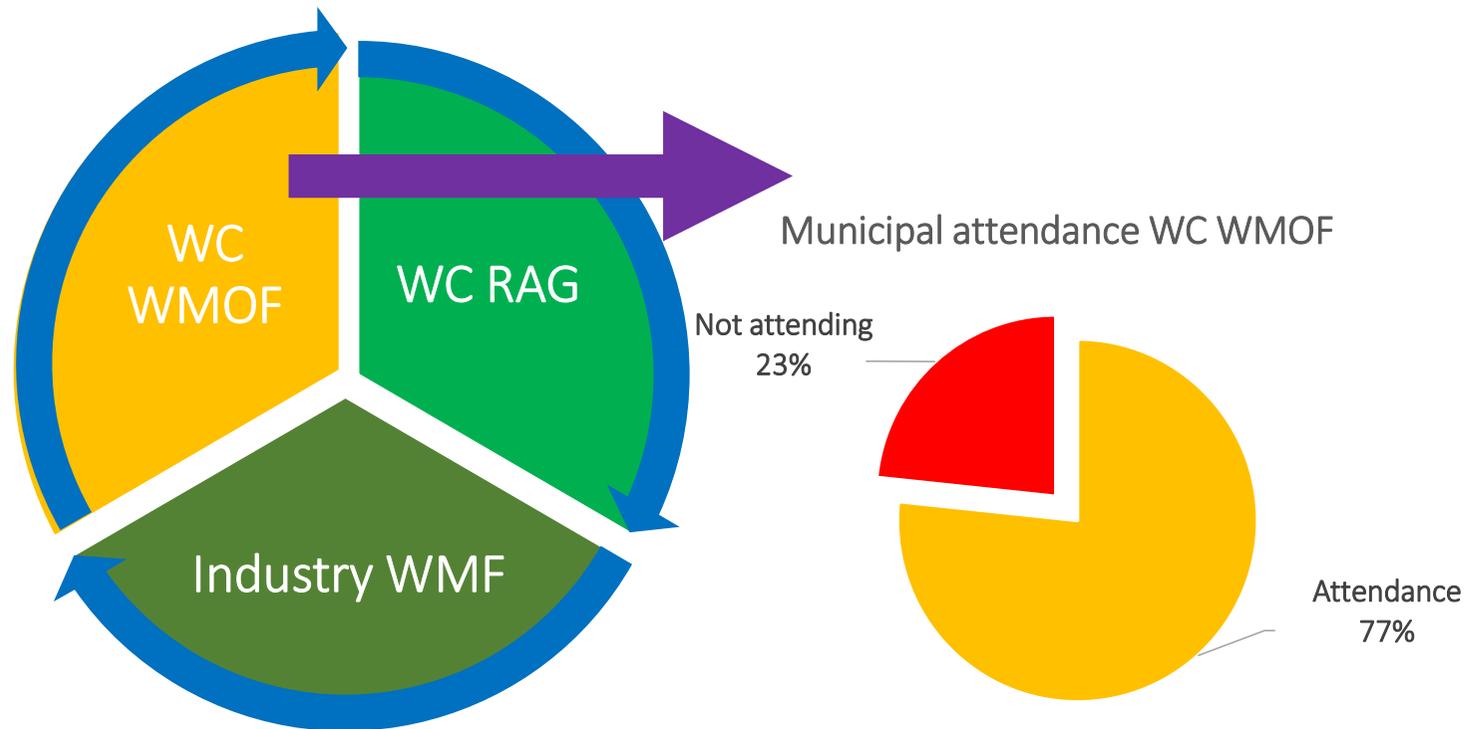
Western Cape Integrated Waste Management Plan
2017 - 2022



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Three effective functioning waste governance platforms





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Municipal Integrated Waste Management Plans

All 30 muns have 1st
& 2nd generation
Plans

24 of 30 municipalities
developed 3rd, 4th or 5th
generation Plans

Improvement in quality of municipal Plans

Ave
assessment
score of 3rd
Gen. Plans
- 79.9%

Lowest
assessment
score of 3rd
Gen. Plans
- 41 %

Highest
assessment
score of 3rd
Gen. Plans
- 93%



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Designation of Waste Management Officers



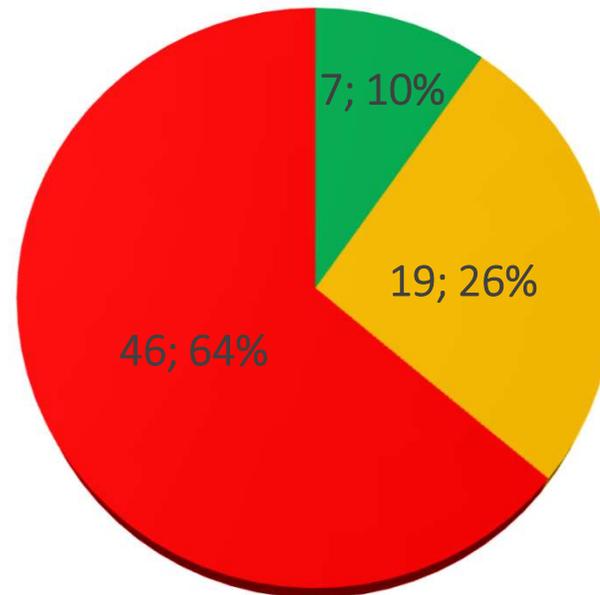


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Waste Management Facilities Compliance Status

Compliance Status of Waste Management Facilities Audited - 2019



■ Compliant (Green) ■ Partially Compliant (Amber) ■ Non-Compliant (Red)

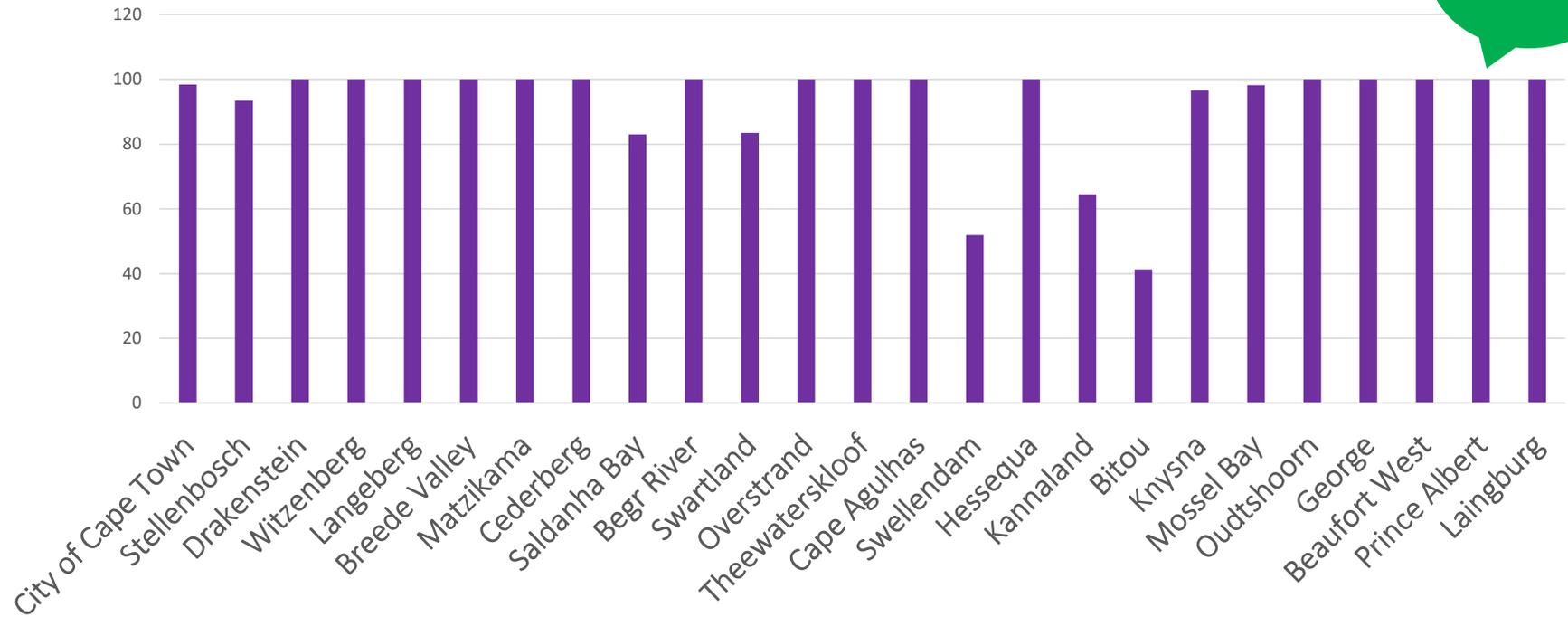


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State of waste management in WC

Western Cape Level of Basic Refuse removal (%)



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State of municipal waste management by-laws in WC



20 local
muns have
by-laws

8 by-laws
fully
aligned

9 by-laws
not aligned

3 by-laws
partially
aligned

DEA&DP developed a model by-law



Improve WM and service delivery



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



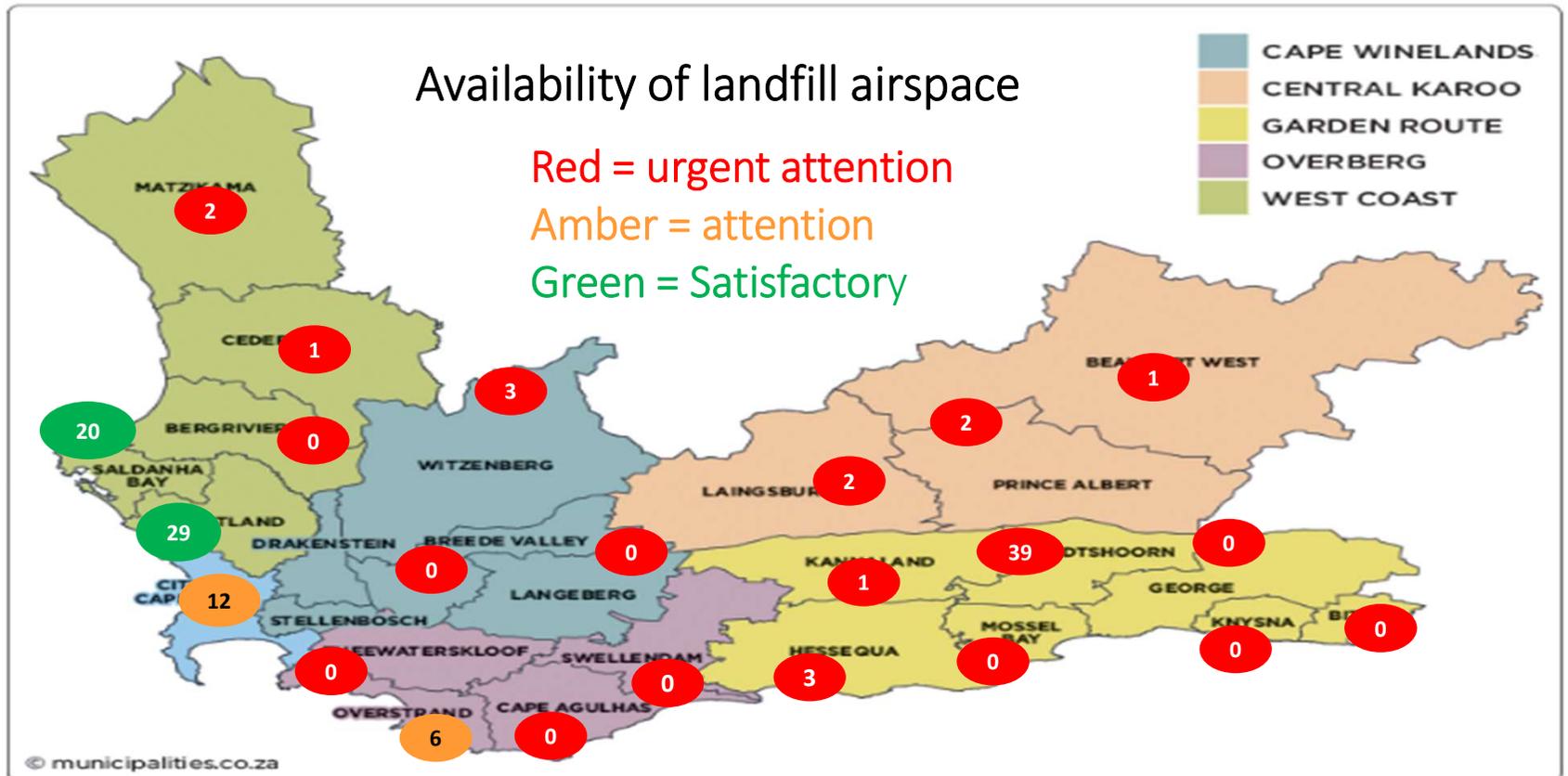
Align to NEMWA



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State of waste management in WC

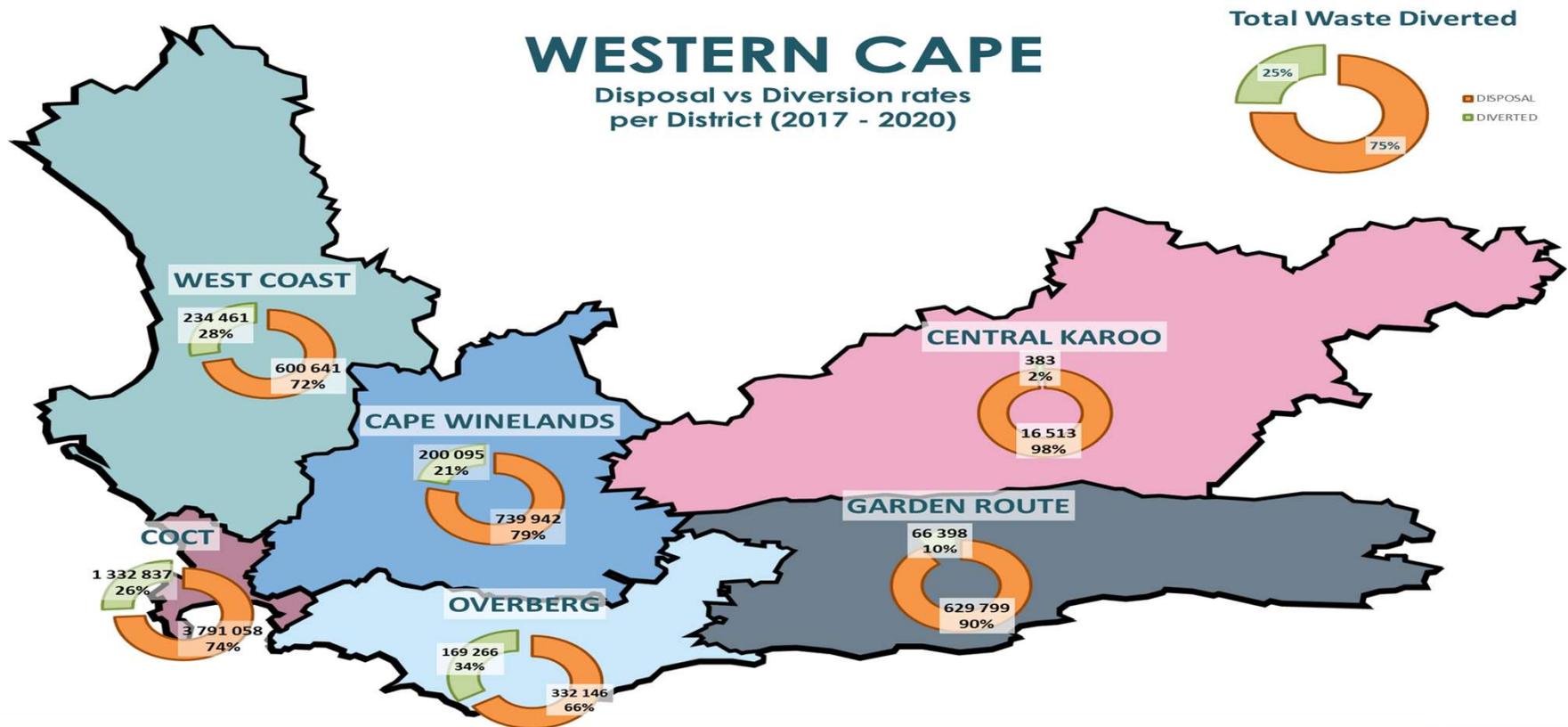




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Waste diversion in the WC (average 2017 – 2020)





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WC response to landfill airspace challenges

- Systems approach:
- WCG Policy to promote regional cooperation
- Stimulate the waste economy (second resource economy) & job creation
- Reduce environmental impacts of waste management
- Promote uptake of alternative waste treatment methodology

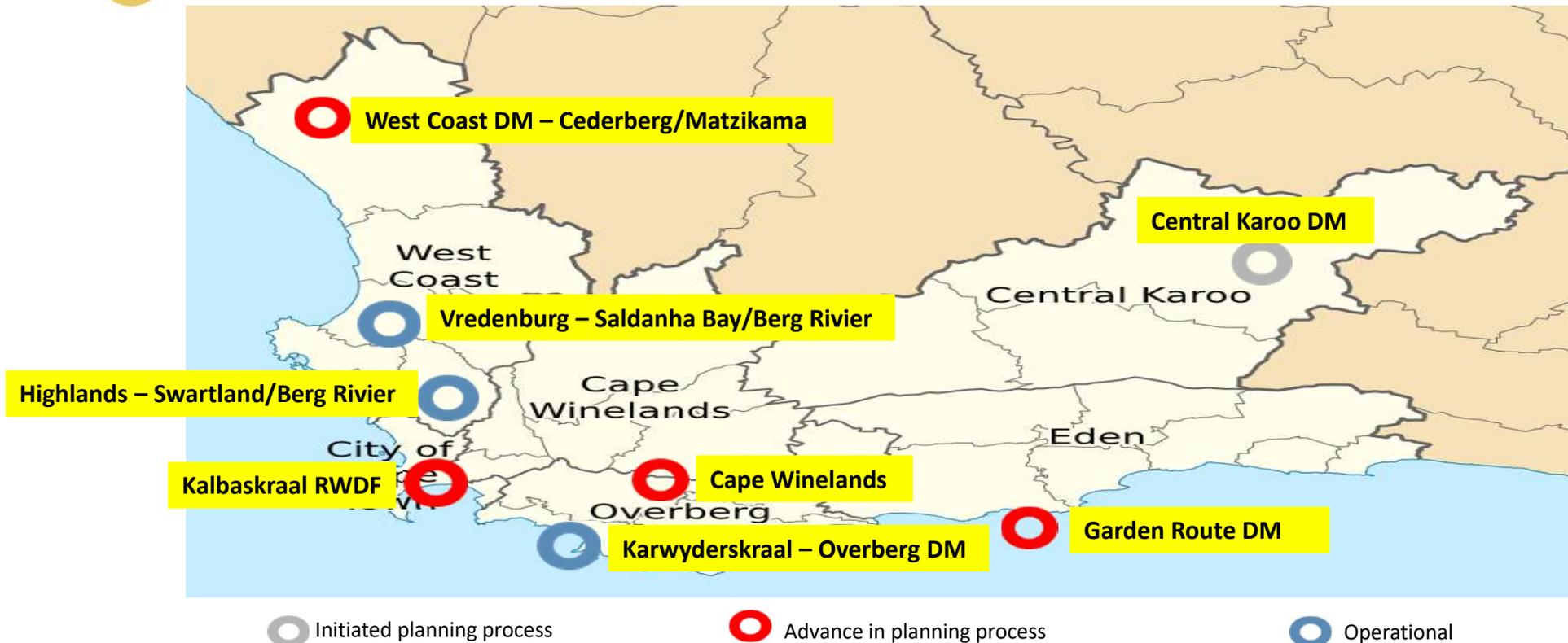




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Regional Cooperation





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State of waste management in WC

- Aggressive waste diversion, recover, reuse, repurposing, recycling and beneficiation of waste material:
 - Focus on waste streams such as organic waste and construction & demolition waste - diversion targets for organic waste - 50% diversion of organic waste from landfill by 2022 and Landfill ban of organic waste to landfill by 2027.
 - **Liquid waste prohibition (23 Aug. 2019).**
 - Focus on separation at source.
- Build resilience into municipal waste management service



PROVINCIAL ORGANIC WASTE STRATEGY
MARCH 2020

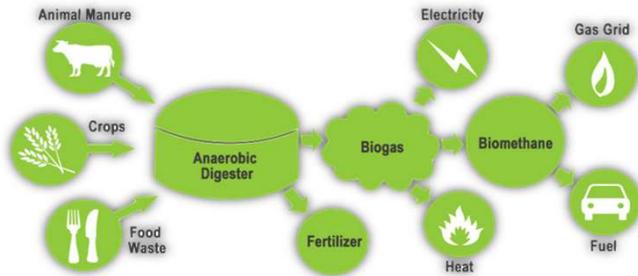


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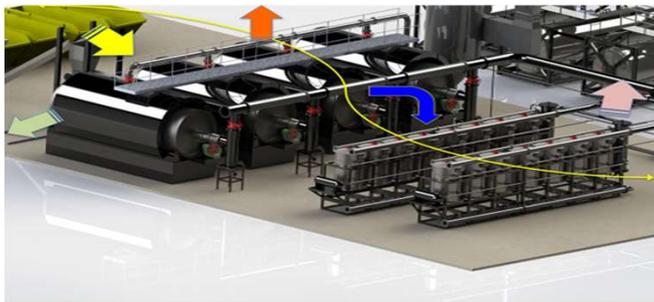
State of waste management in WC

Alternative waste treatment



INSECO
Feeding the Future

AgriProtein
technologies



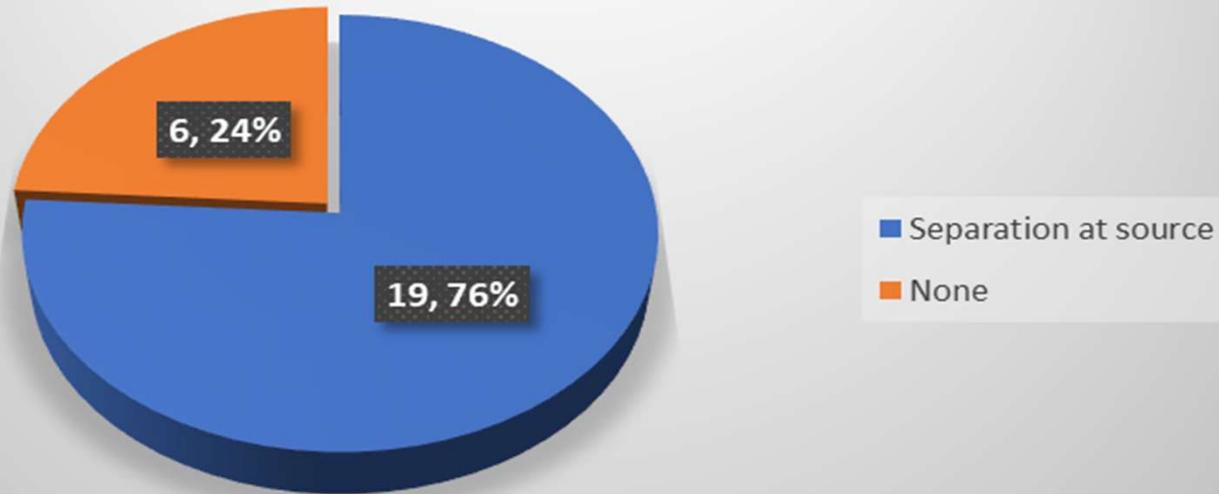


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Separation @Source in WC

Separation at source status of municipalities in the WC





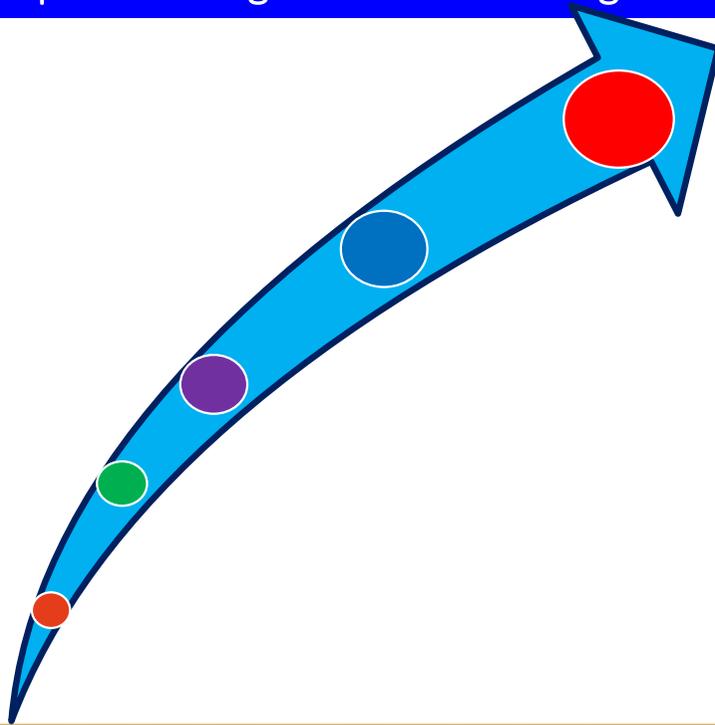
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Strategic Plan: 2019-2024

Impact: Resilient waste management

Outcome: Improved integrated waste management service that supports a waste economy



Improve resilience in municipal waste management delivery

Active municipal technical support

Reduce environmental and climate change impacts of waste

Support to small & micro waste preneurs (job creation)

Stimulation of waste economy by creating enabling environment

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SOUTH AFRICAN LOCAL GOVERNMENT ASSOCIATION (SALGA)

Waste management and associated impacts at local government level

Presented by: Mr Balanganani Nengovhela



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WASTE MANAGEMENT AND ASSOCIATED IMPACTS AT LOCAL GOVERNMENT LEVEL



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LG CONSTITUTIONAL MANDATE

OBJECTS OF LOCAL GOVERNMENT (s152)

1. Provide **democratic and accountable government** for local communities;
2. Ensure the **provision of services to communities** in a sustainable manner;
3. Promote social and **economic development**;
4. Promote a **safe and healthy environment**; and
5. Encourage **involvement of communities & community organisations** in matters of LG

THE CONSTITUTION
OF THE REPUBLIC OF
SOUTH AFRICA



JUTA'S POCKET STATUTES

14TH EDITION

UPDATED
JANUARY 2015



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Problem Statement – Waste Management

Approx 54 million tones of municipal waste is generated/ annum

~90% of waste collected is disposed off at landfill sites

Only 64.7 % of households have access to waste collection services (**StatsSA, 2018**)

Existing landfills sites are running out space at a very faster rate

Economic Potential of waste sector not fully tapped into- R25.2 billion (**CSRI- Waste roadmap**)

The municipal solid waste sector is facing a serious fiscal situation, with operating deficits ballooning to the point at which the sustainability of service delivery will be threatened.

COVID-19 has exposed challenges that are in the sector with regard reaching a universal access to waste collection for all households

Some are:

- ✓ backlogs in rural areas and informal areas where services were not historically provided
- ✓ lack of access roads,
- ✓ Lack of waste collection vehicles
- ✓ lack of infrastructure e.g. central collection points,
- ✓ Low revenue base
- ✓ lack of capacity (staff and staff capacity),

Source: DWS PC committee presentation



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Capacity building (Technical)

- Studies have shown that in order to perform waste management function, municipalities need to have a large degree of technical capacity- ability for municipalities to perform technical functions or activities
- Infrastructure resources and technical knowledge influences the ability to perform technical functions
- In cases where municipalities do not have appropriate technical capacity in respect of the delivery of waste management services, it is expected that private sector can assist in a form of partnership or as a service providers



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Fiscal Matters

- Municipalities are expected to be financial viable with the major source being own revenue (i.e. trading services, property rates etc.) and subsidy from national government in a form of grants
- Growth in consumer debt, with 59% of municipalities having debtor levels higher than 30% of own revenue
- Nearly a quarter of municipalities collect less than 50% of revenue owed to them
- Growth of national transfers now being reduced as part of:
 - National fiscal consolidation and subdued fiscal
 - Depressed economic environment
- Nearly half of the country’s municipalities are in financial distress



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CONT-

- The sustainability of delivery of solid waste services in local government is constrained by severe fiscal challenges.
- The structure of capital financing for waste services is not optimal, with reliance on grant financing, subsidy leakage to non-poor consumers, and user charge revenues that are too low.
- The municipal solid waste sector is in general facing a serious fiscal situation, with operating deficits ballooning to the point at which the sustainability of service delivery will be threatened.



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Extension of services to the unserved

- General Household Survey by StatsSA (2018) indicates that only 64.7 % of households have access to waste collection services
- Residents of core urban areas have relatively good access to refuse removal services while those in peri-urban and rural areas have limited or no access to formal services
- Local government continues to experience challenges in terms of ensuring affordable access to services that are reliably delivered at an appropriate service level
- Unfortunately, progress in addressing the backlogs and ensuring sustainability in the provision of basic services continues to serve as a key measure for evaluating the performance of government (municipalities in particular)



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OPPORTUNITIES FOR MUNICIPALITIES IN WASTE ECONOMY

- Explore opportunities for municipalities to invest in clean technologies and value adding to waste (i.e. waste economy- recycling, landfill gas and waste to energy)
- Isn't the right time to Stop relying on private sector and other ‘vendors of technology’ in terms of what technology will work for municipalities in waste management, without regard for
 - Cost
 - Appropriateness
 - applicability, etc
- Start giving greater guidance on appropriate waste management technologies and innovation (i.e. DSI-CSIR feasibility for establishing a center for waste to energy technologies)
- Partnerships are key



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Environmental active citizenry- New culture

- The South African public spaces are very dirty (especially cities and rural towns) due to the illegally dumped waste



- In trying to keep their surroundings clean, most of municipalities are continuously investing a lot of resources in clearing the illegally dumped waste.



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Cont- Causes

People

Don't care attitude

Municipality will employ some one to clean after me

Infrastructure (bins, dropoff facilities, etc.)

Inadequate infrastructure

Ineffective compliance and enforcement

Absence of authority tools (i.e. bylaws)

Capacity to enforce (i.e. no. of officials or skills)



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Some of key the interventions

- Programme aimed at changing the behavior/attitude of communities towards waste management issues
- **Implementation of EPR** – Producers/brand owners play their role - w.r.t recyclable materials (post consumer products)
- Guidance to municipalities on the rollout of appropriate waste infrastructure and various models
- Support on the authority function- Bylaws, IWMPs development/revision
- Support on Compliance and Enforcement (i.e. capacity building esp in small- medium municipalities)
- **Funding for waste management**- esp infrastructure (i.e. Specialised vehicles)
- Step up accountability and consequence management, where required



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Conclusion

- While municipalities in South Africa operates in a challenging and complex environment; citizens are, understandably, demanding quality services and value for money
- It is clear that since the advent of democracy in 1994, local government has steadily increase access to basic waste removal services (StatsSA GH surveys)
- However, at the same time there are parts of the country, particularly in some smaller towns and rural areas, where local government has almost collapsed, and municipalities are intensely failing their residents.
- Municipalities are the centre of development, so it is key to get them functioning again and it requires collaborative efforts from all stakeholders (i.e. communities, private sector, all spheres of government)



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