



## PROGRESS / HIGHLIGHTS

# OPERATION PHAKISA CHEMICAL AND WASTE ECONOMY



Institute of  
Waste Management  
of Southern Africa

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**3<sup>rd</sup> November 2020**

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**OPERATION PHAKISA**  
CHEMICALS AND WASTE ECONOMY





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## CONTEXT

### OPERATION PHAKISA – CHEMICAL AND WASTE MANAGEMENT AIMS TO SUPPORT SA ECONOMY WHILE REDUCING ITS ENVIRONMENTAL FOOTPRINT

- Operation Phakisa is a presidential program to support implementation the National Development Plan to promote SA economy.
- Current South African waste management sector is not sufficiently developed, leading to both missed economic opportunities and unnecessary negative environmental impact
- For chemicals, several important industrial substances were banned by international conventions and SA needs to find viable replacements

## CRITERIA TO SUCCESS



- GDP contribution
- Job creation
- Reducing negative environmental impact
- Formalization and protection of informal workers
- Economic transformation



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## THE CHEMICALS AND WASTE ECONOMY PHAKISA AIMS TO REDUCE NEGATIVE IMPACT ON THE ENVIRONMENT, WHILE GROWING THE GDP CONTRIBUTION AND CREATING JOBS.



### PHAKISA ASPIRATION



Reduce the negative environmental and health impact of waste and risks posed by chemicals

Increase commercialisation of the circular economy and create value from resources currently discarded as waste



Foster inclusive growth through positioning of South Africa as a globally competitive producer of sustainable products



### KEY OBJECTIVES



- Grow the secondary resources economy by increasing local utilization and beneficiation of waste resources by 50%-75% through creation of an enabling regulatory environment
- Generation of opportunities from chemical and waste resources for the creation of jobs/ opportunities in new / existing markets specifically through enabling SMME's
- Invest in R&D innovation (including IP) and infrastructure to enhance the utilization of local waste resources for new products, substances and services that will create jobs, and enhance the production of environmentally friendly chemicals
- Reduce waste to landfill by 75% of industrial waste and 50% of municipal waste through education and awareness, compliant society, application of cleaner production

# 3 PHAKISA – CHEMICALS AND WASTE (20 X INITIATIVES)

## Bulk industrial waste



## Municipal



## Product design and waste minimisation



## Chemicals



- 1 Increase ash uptake for alternate building materials<sup>1</sup>
- 2 Accelerate innovation and commercialize existing R&D<sup>1</sup>
  - Use ash as soil ameliorant
  - Use ash to treat acid mine drainage and backfill mines
- 3 Export ash and ash products<sup>1</sup>
- 4 Zero sewage sludge to land(fill)
  - Anaerobic Digester Biogas to Energy
  - FBR Thermal Treatment
- 5 Towards Zero meat production waste to land(fill) by 2023

- 6 Introduction of an E-waste levy to increase collection rate
- 7 Unlocking government ICT legacy volumes
- 8 Achieving a minimum of 50% of households separating at source by 2023
- 9 Introduction of materials recovery facilities and palletization plants to increase plastic recycling rates
- 10 Produce building aggregates and construction inputs from rubble and glass

- 11 Developing capacity through a specialised programme which upskills agri-stakeholders to minimize food loss
- 12 Consumer awareness campaign to use and consume ugly food<sup>2</sup>
- 13 Compilation/update of packaging design guidelines
- 14 Formalising the packaging industry producer responsibility plans
- 15 Establish refuse-derived fuel plants across South Africa

- 16 Establish a refrigerant reclamation and reusable cylinder industry
- 17 Ban import of harmful chemicals (e.g. leaded paint/paint pigments)
- 18 Collect and dispose stockpiles of harmful substances (asbestos, mercury)

## Cross-cutting initiatives



- 19 Coordinate SMME development opportunities across initiatives
- 20 Roll out national awareness campaigns

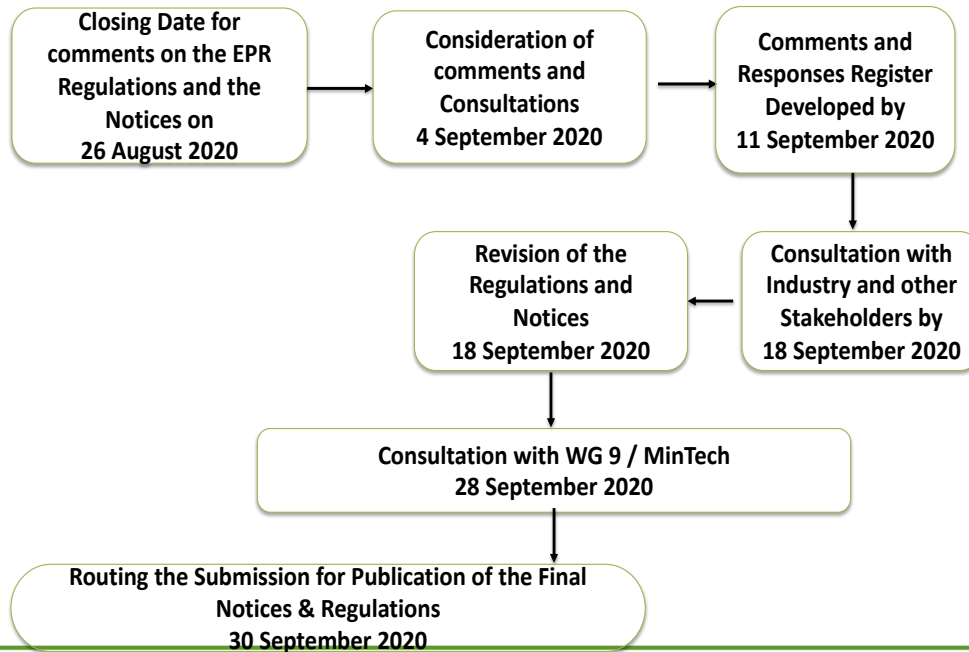




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## HIGHLIGHTS

### SECTION 18 EPR PROCESS MAP



- **Paper & Packaging, Lighting, Electrical and Electronic Extended Producer Responsibility - EPR (Section 18)**
  - ❖ Finalised consultations on implementation of S18 EPR schemes for paper and packaging, lighting and e-waste.
  - ❖ Submission for the publication of final EPR Notices awaiting Minister's approval.



- **Implementation of exclusion applications for 48 sites for ash, gypsum, slag and biomass beneficiation (materials of the future)**
  - ❖ **Establish local response team for job creation stimulation. Identified sites -major ash hubs (Sasol Secunda, Eskom Kriel, Kendal, Lethabo and Matla) (3-6 months priority).**
    - Work underway by holders of the exclusion authorisations in beneficiating large quantities of waste. For example, currently, in excess of 4.5 million tons of ash has been beneficiated. **Progress reports will be submitted by March 2021.**
- **COVID-19 support package for waste pickers and reclaimers**
  - ❖ **Waste Picker relief : - R945 relief per waste picker:**
    - Demo training sessions were conducted for all Provinces, with the last one done on 08 October 2020. Some provinces requested additional training, hence separate sessions to be scheduled. Immediate training sessions are being scheduled for all officials across the country who will be conducting verification of bank accounts and personal identification and to resume by 16 October 2020.
    - Disbursement of funds will be from mid-November 2020 when system interfacing and audit have been concluded.
    - Finalization of system interfacing with DHA and NT in progress (IDs and bank verification)
    - System testing to be done by Internal Audit (before system goes live)
    - Negotiations initiated for extensions (Addendums)-
      - Postbank Agreement: Extension of duration (current expiring in Nov 2020)
      - DHA: Extension of scope to include verification of refugees and asylum seekers (not included in original agreement)

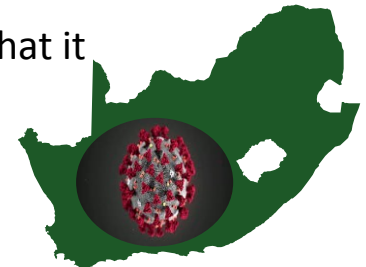




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# HIGHLIGHTS

- ❖ **PPE Procurement** : - procuring of 20 000 PPE for waste pickers/ or reclaimers:
  - Both overall and gloves quotations were sourced from RT contracts.
  - Quotations were received and submitted it to SCM for the issuing of a purchase order.
  - Masks – RFQ reissued in terms of RT tender – Closing date **28th September 2020**.  
30 days delivery time for items
  - National Treasury had issued new instruction note indicating that there is no longer an emergency and all PPE must follow procurement process which affected sanitizers as there is no RT contracts for sanitizers hence SCM write to Treasury seeking clarity but no responses yet.
  - To assist moving forward we need to consider reduction in quantity so that it does not exceed R500K alternatively tender process need to follow.
  - Await guidance from SCM



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#	INITIATIVE	PROGRESS	CHALLENGES	RECOVERY PLAN
10	Construction and demolition Waste	<p>– After <b>engagement with Industry</b> re scope of review for legislative framework and implementation plan for construction and demolition waste, the following actions have been tabled at relevant forums for further deliberation:</p> <ul style="list-style-type: none"> <li>○ DEFF will engage individual organisation that can assist to <b><u>unlock C&amp;D waste opportunities.</u></b></li> <li>○ DEFF will engage <b><u>SABS to explore their standards and procedures.</u></b> The department need points of discussion from industry to raise with SABS.</li> <li>○ DEFF will engage SALGA to unpack what need to happen within the local government systems as municipalities are the owners of waste. DEFF will also request a platform to reach out to remote municipalities in the country as some of the challenges of C&amp;D waste exist in smaller municipalities. Discussions with municipalities will take place until end of September.</li> <li>○ DEFF will engage the <b><u>Departments of Public Works</u></b> before end of September to discuss the arrangement around issues of building management and C&amp;D waste coming from state owned buildings.</li> <li>○ DEFF will engage with organisations such as <b><u>Green Cape on the application of EPR for C&amp;D waste</u></b></li> </ul>	None	None
11 & 12	Agri-Platform & Awareness for Ugly Fruit	<p>- Launch of the South African Food Loss and Waste <b><u>Voluntary Agreement</u></b> by Retailers.</p>	<p>- Successful implementation of the activities on this initiative is entirely dependent on funding and collaboration by key role players</p>	<p>- Delivery timeframes to be extended</p>
14	Packaging EPR	<p>- Consultations concluded and submission for the publication of final <b><u>EPR Notices awaiting Minister's approval.</u></b></p>	None	None



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#	INITIATIVE	PROGRESS	CHALLENGES	RECOVERY PLAN
15	Refuse-Derived Fuel (RDF) Plants	- <u>Evaluation of received proposals finalized</u> and due to be tabled at the next Departmental Adjudication Committee (DAC) meeting.	- Project may be delayed due to COVID 19 restrictions.	<ul style="list-style-type: none"> <li>- Project completion has been moved to mid-year 2021.</li> <li>- Priorities bid processes and commencement of project within Q3 of this financial year.</li> <li>- Continue to mobilize funding and/or investments for building the plants prioritized for 2021/22 financial year</li> </ul>
16	Refrigerant reclamation	Ongoing: <u>Refrigeration and Air-conditioning (RAC) service technician training programme for 400 informal technicians</u> in Gauteng and KZN provinces, will be trained between November 2020 and December 2021. UNIDO and DEFF currently finalizing ToRs.	None	None



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## HIGHLIGHTS

#	INITIATIVE	PROGRESS	CHALLENGES	RECOVERY PLAN
17	Lead-free paint	Ongoing: Procurement on progress (DG approval for procurement process of <u>lead test equipment</u> still en-route for approval)	None	None
18(b)	Asbestos	Ongoing: National Asbestos Management Strategy- Service Provider <u>currently busy with stakeholder engagements</u>	None	None
19	SMME Coordination	<p>– Procurement in progress:</p> <ul style="list-style-type: none"> <li>○ Evaluation of proposals done on Friday for the appointment of a Transaction Advisor for developing a business case for National Waste Beneficiation and Discretionary Fund (Waste Fund).</li> <li>○ Proposals received and advert closed on Friday, 09 October 2020 for appointment of Transaction Advisor to review and refine Action Plans and Business cases for 20 CWE initiatives.</li> </ul>	None	None
20	Awareness	<p>– 2 awareness and 5 cleaning campaigns were conducted.</p> <ul style="list-style-type: none"> <li>○ E-waste Dialogue, and</li> <li>○ Abattoir Waste Management Awareness.</li> <li>○ Clean-up campaign in Gert Sibande DM, Nkangala DM, CoJ, Durban and Vuwani LM</li> </ul>	None	The Department together with Provinces, to implement the Municipal Cleaning & Greening Programme, starting in Nov 20



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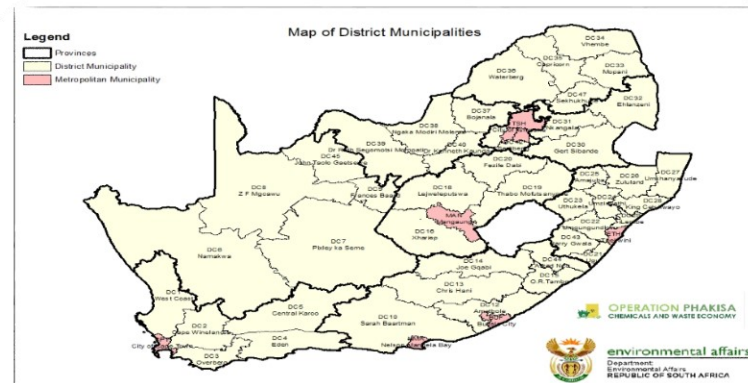
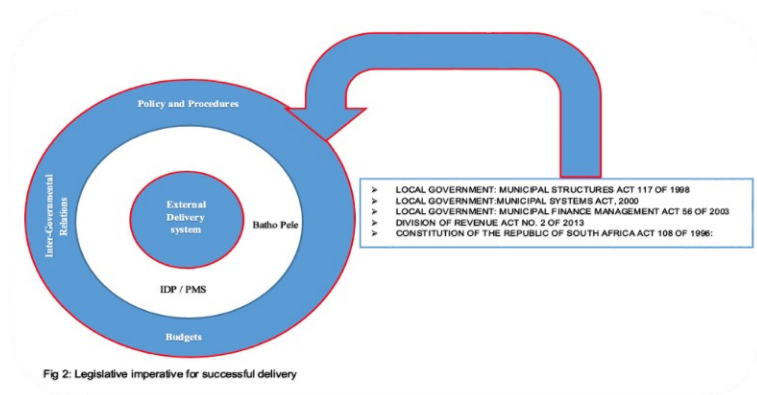
# 10 PRESIDENTIAL DISTRICT COORDINATION MODEL



## ALIGNMENT OF DELIVERY UNIT OBJECTIVES WITH PRESIDENTIAL DISTRICT MODEL

The success of the Chemicals & Waste Phakisa objectives needs to be supported by the legislative framework of Local Government.

Local government; **corner stone of the success of the Phakisa initiative**

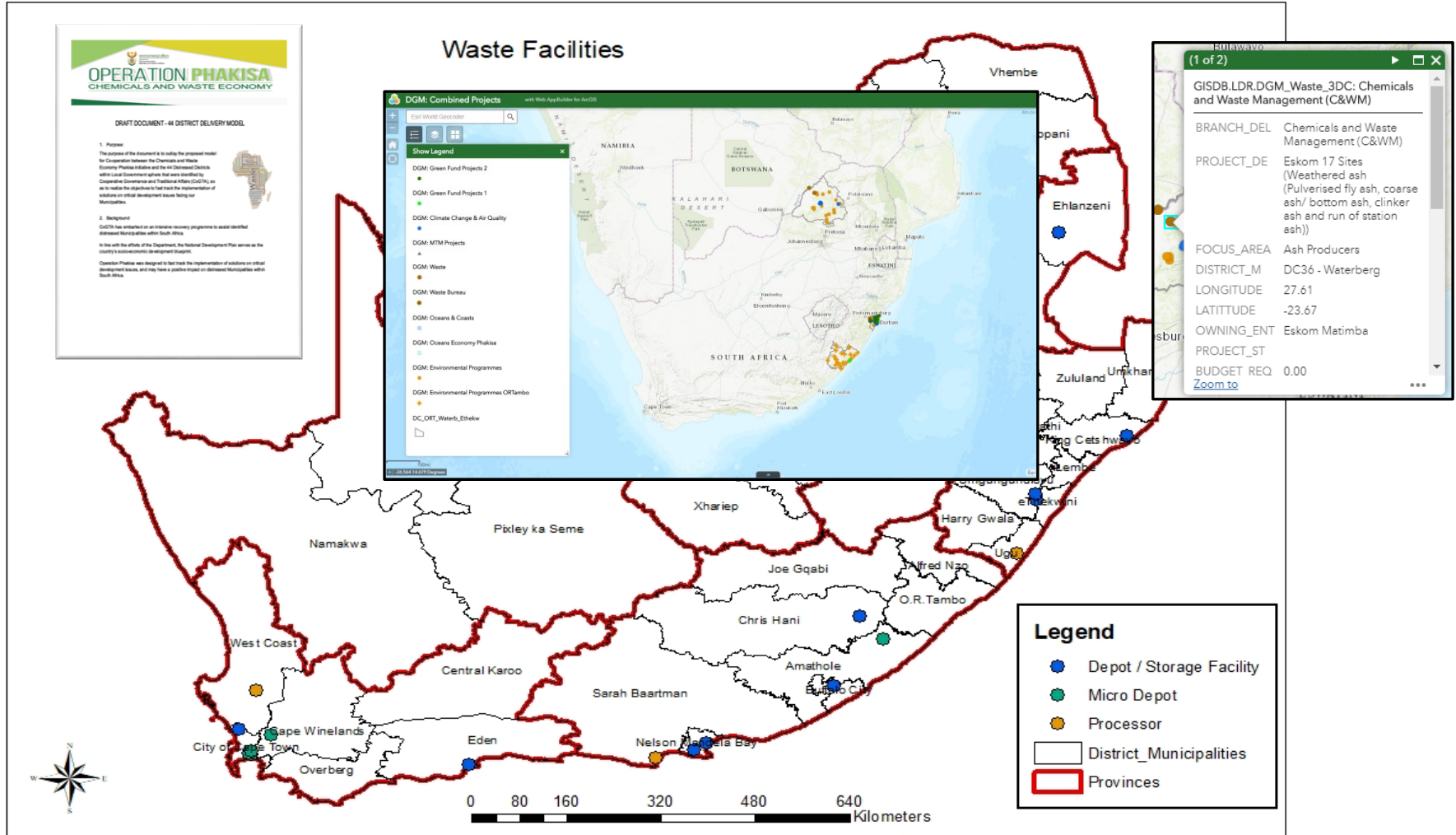


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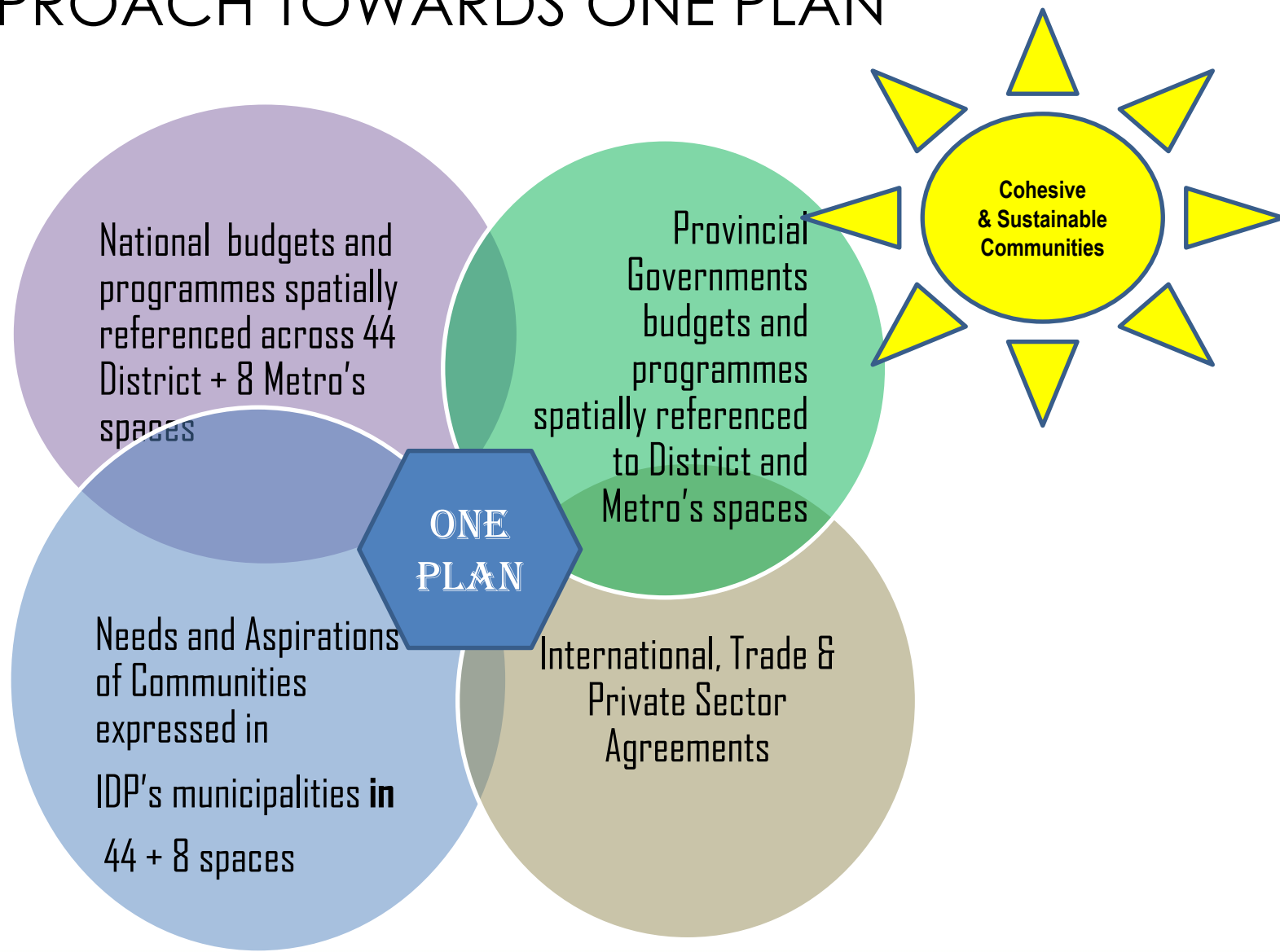


# PRESIDENTIAL DISTRICT COORDINATION MODEL





# APPROACH TOWARDS ONE PLAN





Bulk industrial  
waste



Municipal



Product design and  
waste minimisation



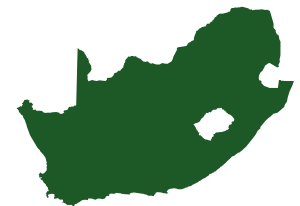
Chemicals



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## ACTIVITIES / PRIORITIES FOR 2020

- Local Government alignment with Phakisa objectives.
- Co – funding of initiatives between National and Local Government.
- **Mobilise private sector commitment / participation (Funding)**
- Coordination of green fund waste/green infrastructure programme.
- Coordination and elimination of silo approach within government programmes.
- Demand side of Waste Management
- Strengthen support to initiative owners to unblock challenges.
- Drive 3 – Feet plan targets to met set goals.
- Development of Phakisa: Chemicals and Waste Master plan
- Strengthen Intergovernmental collaboration.
- DOD – Waste stream Analysis Tool
- Provincial Waste Summits (EC)



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# THANK YOU!

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Thank You

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