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## Coordination of the Waste Management Flagship programme



Waste Khoro – 15<sup>th</sup> October 2013

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# Overview



National Climate Change Response Policy Objectives

Near-Term Priority Flagship Programmes

Waste-to-Energy

Coordination of the Waste Management Flagship



# NCCRP Objectives

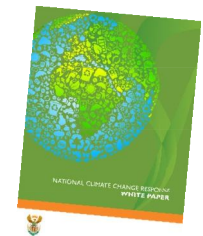
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The National Climate Change Response Policy 2011 objectives:

To effectively **manage the inevitable climate change impacts** through interventions that build and sustain South Africa's social, economic and environmental resilience and emergency response capacity; and

= **MITIGATION**



# Near-Term Priority Flagship Programmes

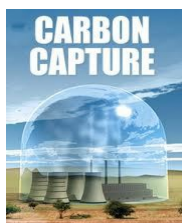
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Near-term Priority Flagship Programmes to be implemented, informed by several factors including **urgency of acting on mitigation** responses, and the fact that many sectors have already researched and have **experience in implementing policies and measures** to address challenges of climate change:



1. The Renewable Energy Flagship Programme
2. The Energy Efficiency and Energy Demand-side Management Flagship Programme



3. The Carbon Capture and Sequestration Flagship Programme

4. The Transport Flagship Programme



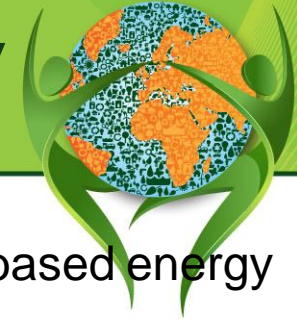
5. The Waste Management Flagship programme

- *Waste-to-Energy emphasis*



# BENEFITS OF MUNICIPAL WASTE-TO-ENERGY

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Job-creation



Substituting fossil-based energy



Methane → Carbon dioxide



Revenue-generation



Reducing local air-pollution  
Reducing landfill management



# Flagships: DEA Working Criteria

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## Impact

- Significant Mitigation/Adaptation impact
- Sustainable Development co-benefits

## SMART

- Specific, Measurable, Attainable, Relevant and Timely

## Programmatic

- Not simply a collection of projects
- Clear programmatic approach

## Scale

- Significant potential for scale up

## Readiness

- Projects should be implementable in the near-term – beyond concept note

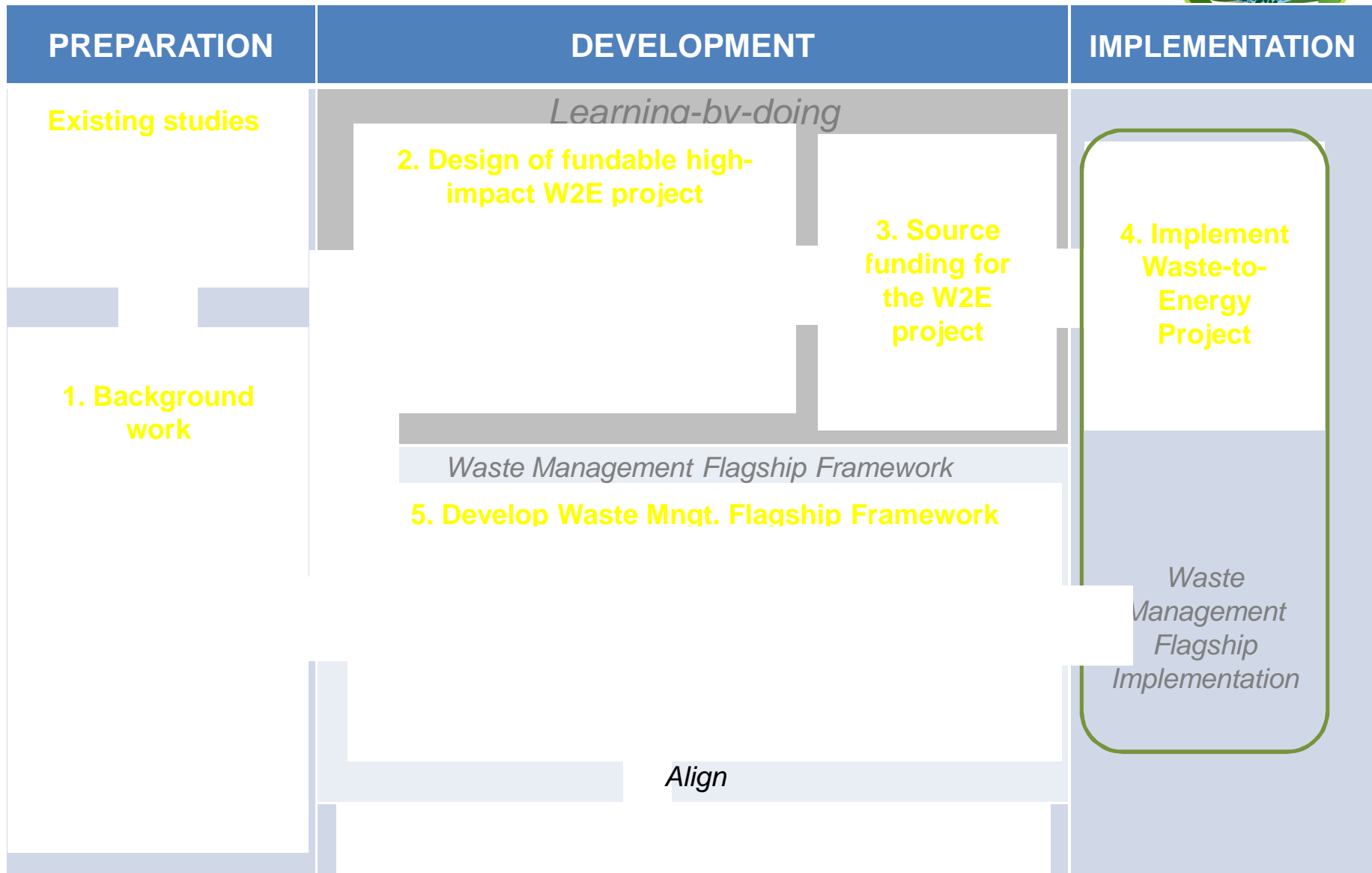
## Institutional Coherence

- Clear coordination mechanism or implementing agent
- Aligned with government priorities



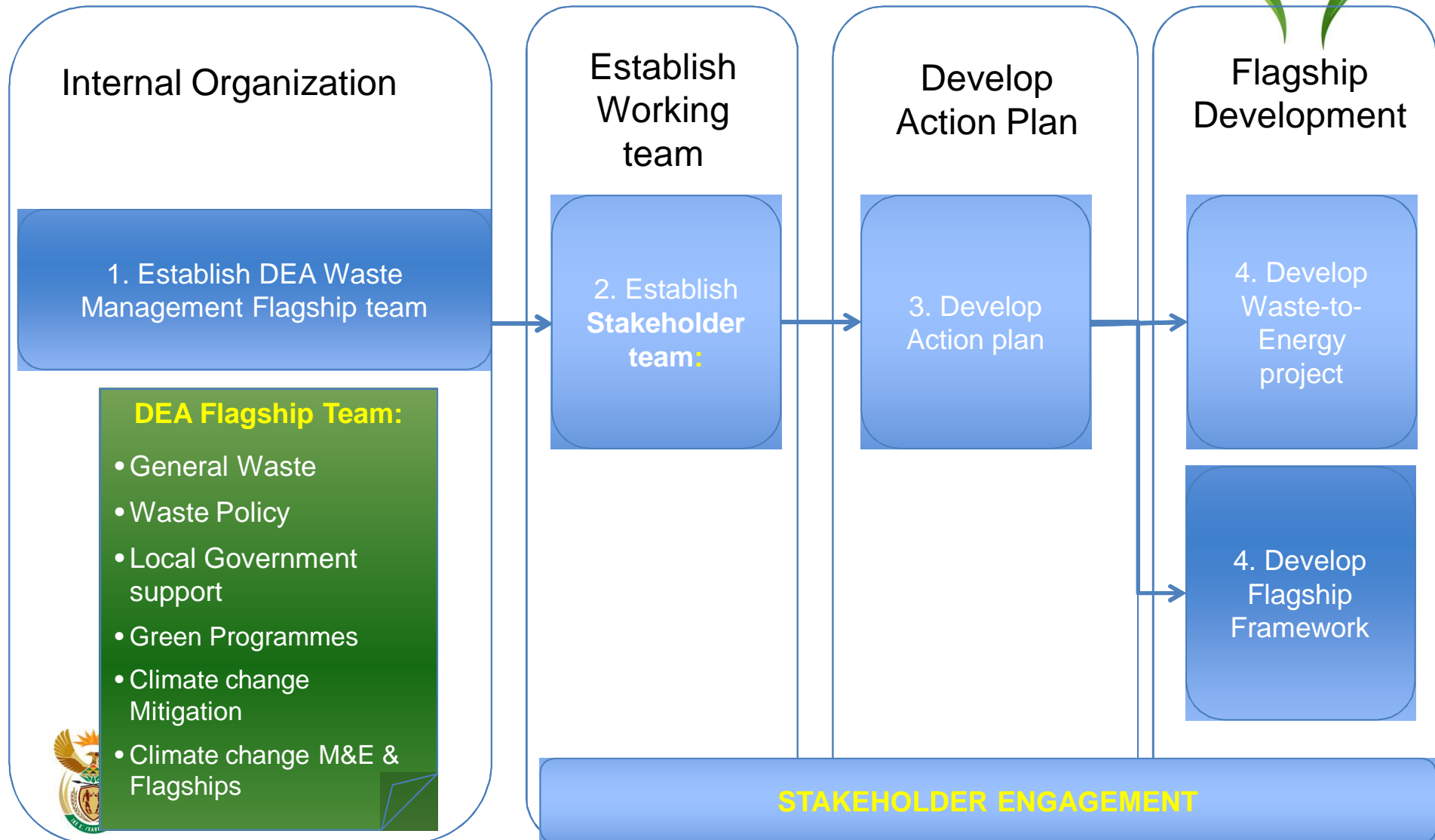
# Approach: Waste Management Flagship

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# Approach: Waste Management Flagship

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# Progress

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ACTIVITY	PROGRESS
<b>1. Stakeholder identification</b>	June 2013 workshop - ongoing
<b>2. Background study</b> <i>(Status-quo, mitigation potential, lessons learnt, future of W2E)</i>	First draft – 18 <sup>th</sup> October Final draft - 31 <sup>st</sup> October
<b>3. Flagship framework Development</b>	<b>1<sup>st</sup> workshop – 22<sup>nd</sup> October</b> 2 <sup>nd</sup> workshop – 1 <sup>st</sup> Week Dec. 3 <sup>rd</sup> workshop – February 2014
<b>4. Waste-to-Energy project</b>	To be informed by background study



# Waste-to-Energy programmes in Municipalities?

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NO	OWNER / IMPLEMENTER	PROJECT / PROGRAMME	TYPE	STATUS
1	SALGA/GIZ	Ehlanzeni DM (Umjindi LM)	Sewage and Biogas	Pre-feasibility
2	SALGA/GIZ	Joe Gqabi DM (Moletswai LM)	Sewage and Biogas	Pre-feasibility
3	SALGA/GIZ	Maluti a Phufong LM	Sewage and Biogas	Pre-feasibility
4	SALGA/GIZ	George	Sewage and Biogas	Pre-feasibility
5	SALGA/GIZ	City of Tshwane	Sewage and Biogas	Pre-feasibility
6	City of Mangaung		Landfill gas	Tender stage
7	City of Johannesburg	COJ AWT Feasibility Study	Incineration/CHP	
8	City of Johannesburg	COJ LFG Feasibility Study	Incineration/CHP	
9	City of Johannesburg	Alternative WTT for CoJ	Incineration/CHP	Done feasibility studies; advisor
10	City of Johannesburg	CDM, PPA	Landfill gas	Operational (Flaring)
11	City of Johannesburg	Robinson deep - CDM, PPA,	Landfill gas	Operational (Flaring)
12	City of Johannesburg	Mary Louise - CDM, PPA	Landfill gas	Operational (Flaring)
13	City of Johannesburg	Lindbro Park	Landfill gas	Pipeline
14	City of Johannesburg	Goudkoppies	Landfill gas	Pipeline
15	City of Johannesburg	Enerdale	Landfill gas	Pipeline
16	Johannesburg Water	Northern Works CHP	Incineration/CHP	Completed and commissioned
17	Johannesburg Water	CHP Driefontein and Bushkoppie	Incineration/CHP	Mechanical equipment procured, Civil works in progress
18	Johannesburg Water	Northern Works JW Biogas	Sewage and Biogas	Implementation 1st Phase; Cleaning of Bio-gas
19	Johannesburg Water	Project 2 Cell lysis	Sewage and Biogas	To be commissioned
20	eThekweni	eThekweni Southern Wastewater Treatment Works biogas project	Sewage and Biogas (CDM)	Operational
21	eThekweni	Treatment of Greenwaste Bisasar	Sewage and Biogas	Tender negotiation
22	eThekweni	Marianhill Mechanical Biological Waste Treatment (MBT) to Energy Project;	Landfill gas (CDM)	Operational
23	eThekweni	BISASA RD	Landfill gas	Operational
24	eThekweni	Buggelsby	Landfill gas	Research
25	City of Cape Town	Landfill Gas Extraction And Utilization Programme of Activities (PoA)	Landfill gas programme of activities (CDM)	
26	Buffalo City	Landfill gas project	Landfill gas	Feasibility Study
27	City of Tshwane	Landfill gas project	Landfill gas	Feasibility Study
28	uMhlathuze (Richards bay)	Landfill gas project	Landfill gas (CDM)	Operational
29	Nelson Mandela Bay	Landfill gas project	Landfill gas	Feasibility Study
30	Nelson Mandela Bay	Landfill gas project	Landfill gas (CDM)	Construction completed?
31	Ekurhuleni	pre/feasibility Study	Sewage and Biogas	
32	Ekurhuleni	EKU - LF 4 Sites	Landfill gas	Operation - Flaring (1 MW - One Site)
33	Ekurhuleni	Sebenza project	Landfill gas	Operational

Owner	No
GIZ	5
Mangaung	1
Co Jo'burg	9
J Water	4
eThekwini	5
City of CTN	1
Buffalo City	1
Tshwane	1
uMhlathuze	1
NMBM	2
Ekurhuleni	3

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