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CITY OF CAPE TOWN | ISIXEKO SASEKAPA | STAD KAAPSTAD



City of Cape Town

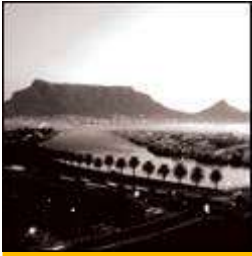
Progress since Summit 2007

The River Club, Observatory

Date: 11 March, 2009

Barry Coetzee

Head: Integrated Waste Management, Strategy & Policy



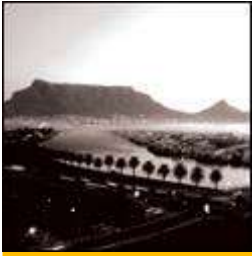
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City Waste Management Strategy & Plan

- Sector Plan for Waste Management (statutory plan).
 - Based on 16 strategies to deliver on the IWM Plan:
 - Waste Minimisation;
 - Waste Management Services;
 - Logistics;
 - Staffing, resourcing;
 - Support services;
 - Law enforcement.
 - Part of the IDP, includes Integrated Waste Management Plan (linked to the SDBIP's).
 - 20-year planning for services & infrastructure.
 - Supported by an IWM Policy (1st for a municipality in SA, adopted in May 2006).



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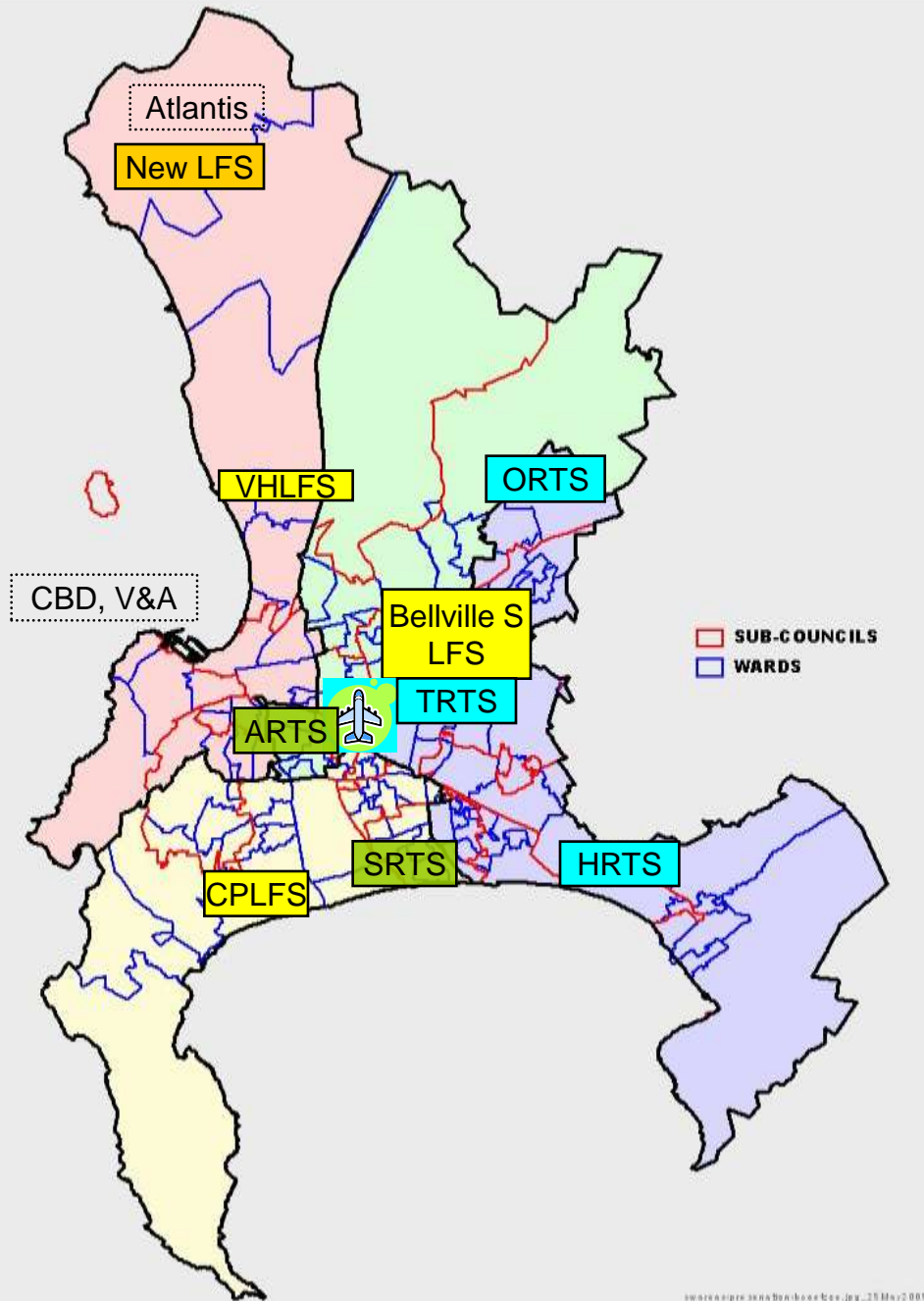


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Getting the Basics Right: what are CT's objectives?

- Give effect to City's IDP, NEMA, IWM Plan, IWM Policy, comply with national policy & future legislation objectives.
- Possible mechanisms:
 - Increase diversion of valuable waste from landfills: airspace saving.
 - Existing mechanism: Community Drop-offs, MRF's.
 - New initiatives: possible Public Private Partnerships.
- Create linkages between 1st & 2nd Economy:
 - Encourage development of market for recyclables - processing capacity in Cape Town: economic stimulation.
 - Ensure access of the poor to opportunities (infrastructure, waste services linked – income generation).
- Establish Partnerships:
 - Quarterly Recycling Forum: Focus on packaging waste & Drop-offs.
 - Other – dependent on completion of S.78 assessment.

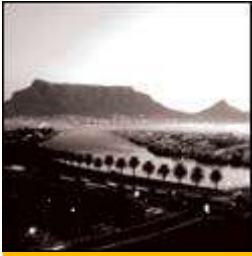
SOLID WASTE 4-AREA MODEL



CITY OF CAPE TOWN CONTEXT

CT Metro municipality:

- Demarcated area of approx 2 400 km²;
- About 80% of WC economic activity;
- Current population 3.5 mill, 70% of WC, growing at about 2% p.a.;
- Waste growth 7% p.a. (outstrips population growth rate);
- Waste landfilled 2.8 mill tonnes (2006);
- Recycling about 15 %: organics (chipping & composting), builder's rubble, plastics, paper, glass, metal.
- Pilot project for residential recovery (separation at source).
- Pending RoD on new Landfill (critical).
- 3 New IWM Transfer Stations planned.
- IWM By-law pending (to be promulgated 2009).
- Needs a major adjustment in mechanisms and waste management systems: partnerships.
- Municipal Systems Act assessment to consider alternatives – S.78(3) starting soon.



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City: leader in SA municipal waste management

- Energy crisis at Koeberg nuclear power station in 2006:
 - City insisted that “crush-and-dispose” of CFL’s is not acceptable;
 - Partnered with Eskom, Lighting Industry to develop a solution for recovery of CFL lamps;
 - Consultants completing work in end-2008;
- 2007: City of Cape Town Waste Minimisation Summit and Summit on Alternatives to Landfill (2nd occasion):
 - Formed a Recycling Forum with Packaging Industry;
 - Split Bag pilot project in five areas rolled out: August 2007;
 - WasteWise campaign: Education and awareness started 4-years ago, continuing in support of waste minimisation, involves industry, schools, etc;
 - Construction rubble crushing tenders awarded;
 - Tyre recovery from landfill: next key area.



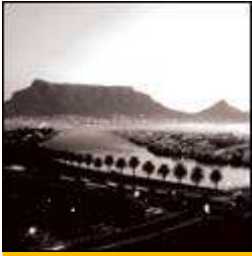
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Infrastructure & Service Initiatives

- New landfill site to replace 3 existing general landfills in next 3 – 8 years: critical time = 2011 - 2013.
- Three new integrated MRF's, processing and transfer facilities planned for construction in next 3 – 8 years.
- CDM projects.
- Possible Waste-to-Energy projects.
- Implementation of waste reduction initiatives (e.g. Think Twice split bag pilot project – separation at source).
- Waste minimisation & waste management during FIFA 2010 event.
- Develop & support initiatives for problem wastes e.g. CFL's (Eskom/ Lighting industry/ Retailer partnership, e-waste, etc).
- Complete new Integrated Waste Management by-law.
- IWEX website: free exchange of recyclate.
- Waste Information System.



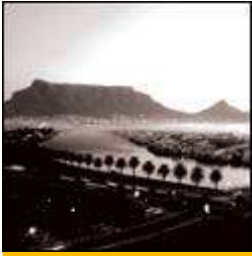
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Waste Management for FIFA™2010 World Cup

- Waste planning completed and aligned with FIFA Green Goal expectations for 2010 World Cup:
 - Minimise waste: 20% target;
 - Create economic opportunity: minimise & recover waste (recyclate) during this period;
 - Create partnerships: Packaging Industry focus;
 - Major operating budget shortfall for additional waste services: R43 mill funds approved – leverage event to implement systems sooner;
 - Legacy opportunity: change habits & implement systems utilising a partnership approach.



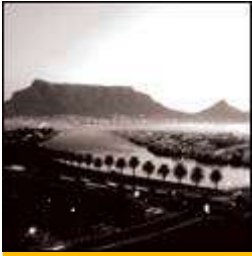
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Regional Context: Small Municipalities

- Very little landfill airspace in neighbouring municipalities (Stellenbosch, Malmesbury, Wellington, Franschoek, Paarl):
 - Impact on CT's landfills: cross-boundary economies.
- Synergies that can be explored:
 - “Big sister” role - bulk infrastructure: However, new landfill designed for CT's waste (30 year life);
 - Logistics and transport: cost reduction, alternatives;
 - Communication, education: common problem;
 - Investment in the City & in region.
- Extensive work required to determine possible service & funding arrangements, Service Delivery Agreements, etc.



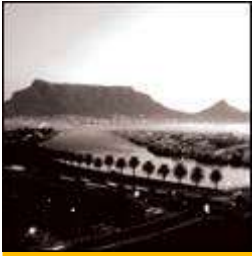
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Local Service Challenges

- To reduce service delivery backlogs:
 - Influx of people causes moving target, relatively small (99% receive basic service: door-to-door collection once a week);
 - Increasing number of “Backyarders”: service & payment.
- Infrastructure serviceability/ availability: dependent on sufficient budget, human capital, skills & systems.
- Vandalism & theft affect service delivery, economy (e.g. cables, other infrastructure – copper, metal).
- Improve waste reduction: reduce generation, increase recovery – increase diversion from landfill from 15% to 20% (2012).
- Create opportunities & partnerships for alternate services to stimulate business growth, to create formal jobs: recycling.
- Rises in energy price: expanding city, longer distances.
- Global economic crunch: effect on markets for recyclates.



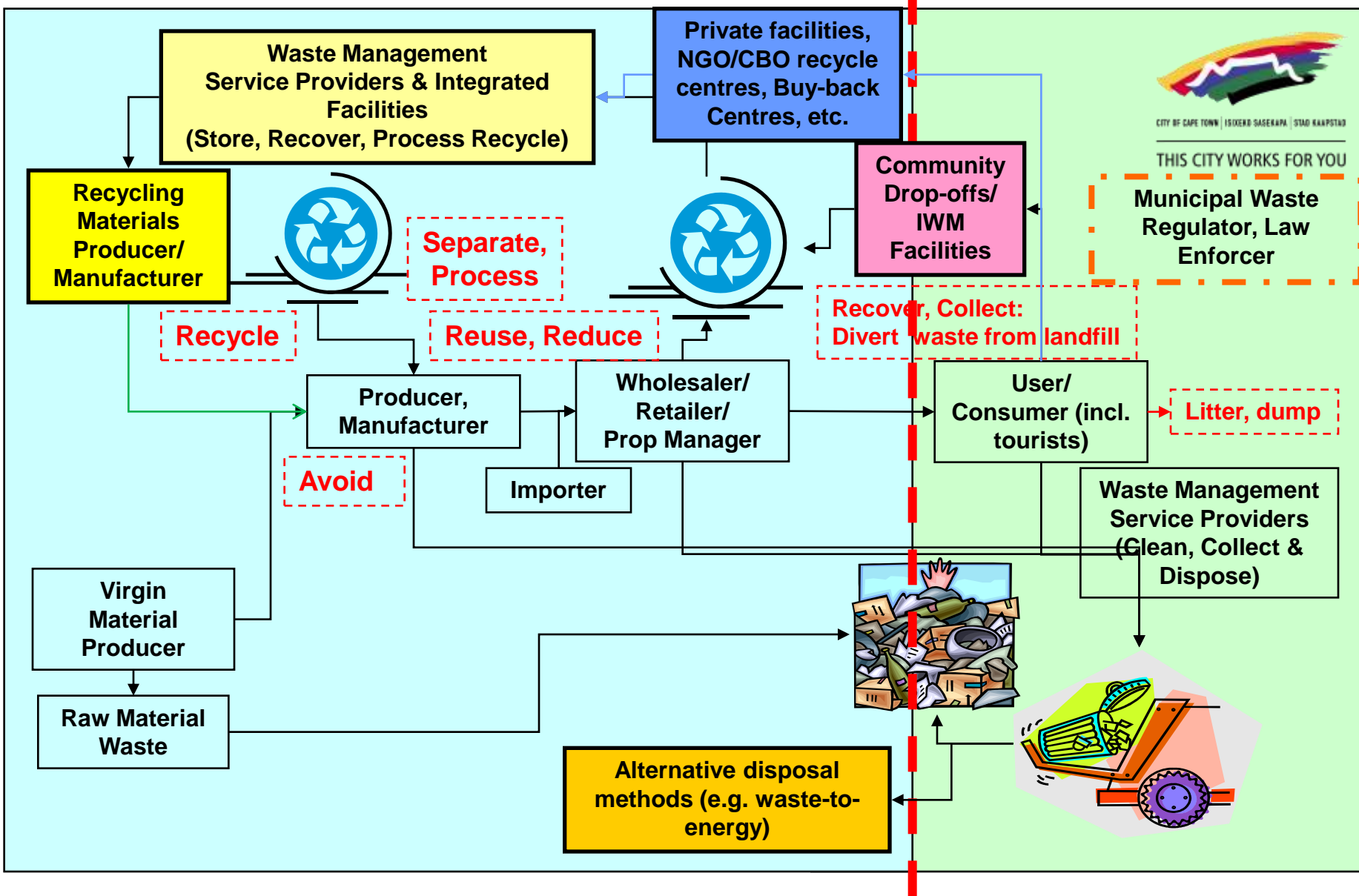
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Waste Management Industry Transformation

- Legal changes drive the change.
 - Problematic in terms of voluntary participation.
 - Bound to have effects on current modus operandi.
- Will force change from Business-As-Usual:
 - Volumes must shift from landfill to recycling;
 - Opportunities.
- Government (National Treasury) must consider funding incentives to make recycling sustainable & must amend municipal funding.
- Alternatives to landfill: waste-to-energy, large scale recycling.



By-law & Waste Management Practice must support key changes & enable enforcement of Waste Minimisation in Cape Town per IWM Policy & and pending legislation (Waste Management Bill)

**Customers
(Waste
Generators)**

**1st stage:
Collection/
cleaning**

**2nd stage:
Sort,
Process,
transfer**

**3rd stage:
Processing/
Treatment**

**4th stage:
Disposal**

**5th stage:
Recycling**

**City of Cape Town &
Its contractors**

Informal
Residential
areas

Community-based
Collection
(City-managed contracts:
considered
National best-practice)

Formal
Residential
areas

Collection
(City-managed
contract)

Collection
(City service)

Commerce

Collection
(Private sector
service)

Industry

Specialised
Collection
(Private sector
service)

Special
(hazardous)
waste

Integrated
Transfer
station

Materials
Recovery

General
Landfill disposal

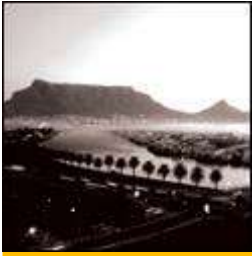
Processing
or
Treatment

Re-use/
Recycling
(manufacture)

Hazardous
Landfill disposal

Incineration
(Medical waste)

Private Sector



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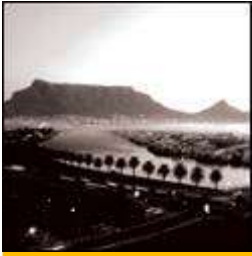


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THANK YOU, DANKIE, ENKOSI

