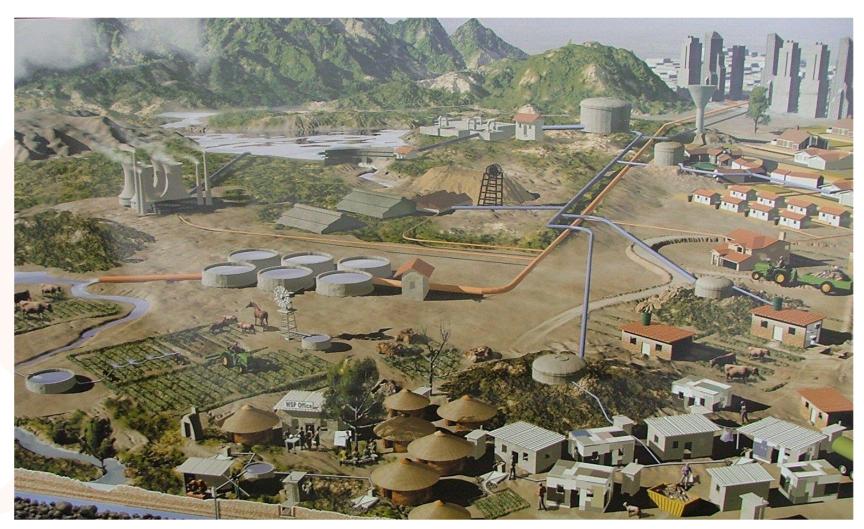


SALGA – NBI SESSION 1 MARCH 2019



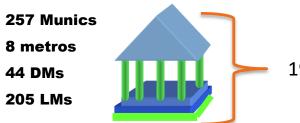
KOPANO YA METSI: MUNICIPAL WASTEWATER TREATMENT AND REUSE ROUND TABLE



OBJECTIVES OF THE PRESENTATION



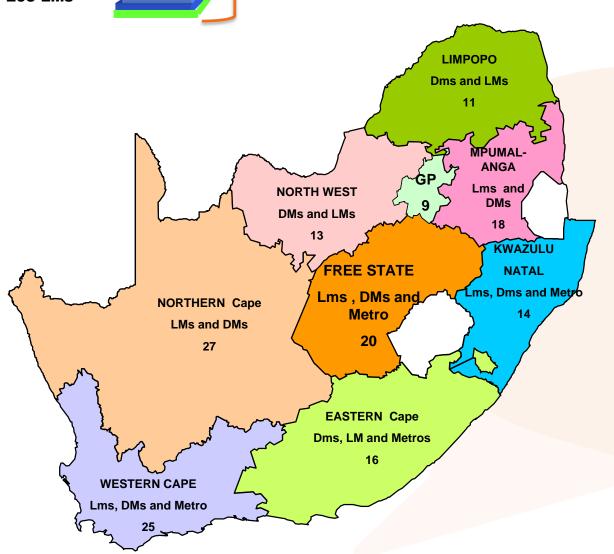
- ☐ Our Role and Mandate
- ☐ State of Affairs
- ☐ The deepen our institutional delivery model of wastewater management and Re-use
- ☐ Highlight opportunities
- □ Recommendations

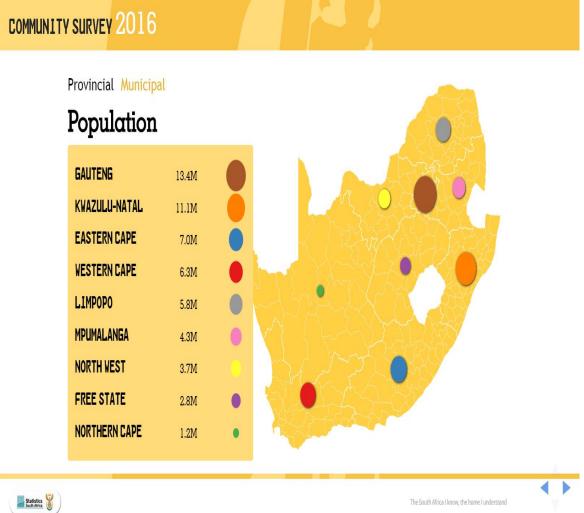


SOUTH AFRICAN MUNICIPALITIES

19Years







SALGA MANDATE



SALGA Mandate Lobby,
Advocate &
Represent

Employer Body **Capacity Building**

Support & Advice

Strategic Profiling

Knowledge & Information Sharing

Transform local government to enable it to fulfil its developmental mandate.

Lobby, advocate, protect and represent the interest of local government at relevant structures and platforms.

Act as an employer body representing all municipal members and, by agreement, associate members.

Build the capacity of the municipality as an institution as well as leadership and technical capacity of both Councillors and Officials.

Support and advise our members on a range of issues to assist effective execution of their mandate.

Build the profile and image of local government within South Africa as well as outside the country.

Serve as the custodian of local government intelligence and facilitate intermunicipal peer learning

The Voice of Local Government

Examples Infrastructure managed by Local Government

– ranges from:

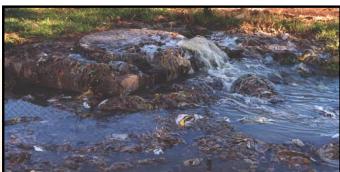
The good



The Bad



The Ugly

















SAICE REPORT CARD

<u>Sanitation Urban: C-</u> The condition and functionality of sanitation infrastructure is of grave concern, especially outside the major urban areas. Although the unserved-households percentage has decreased significantly since 1994, due to growth in population and households, the actual number unserved remains at about 4 million. 'Green Drop' performance scores are generally in the "good" to "excellent" range around major urban areas. <u>However, many urban facilities are unable to cope with increased demand. Many (up to 30% of all) WWTWs are in critical condition, discharging increasing quantities of untreated waste into streams.</u>

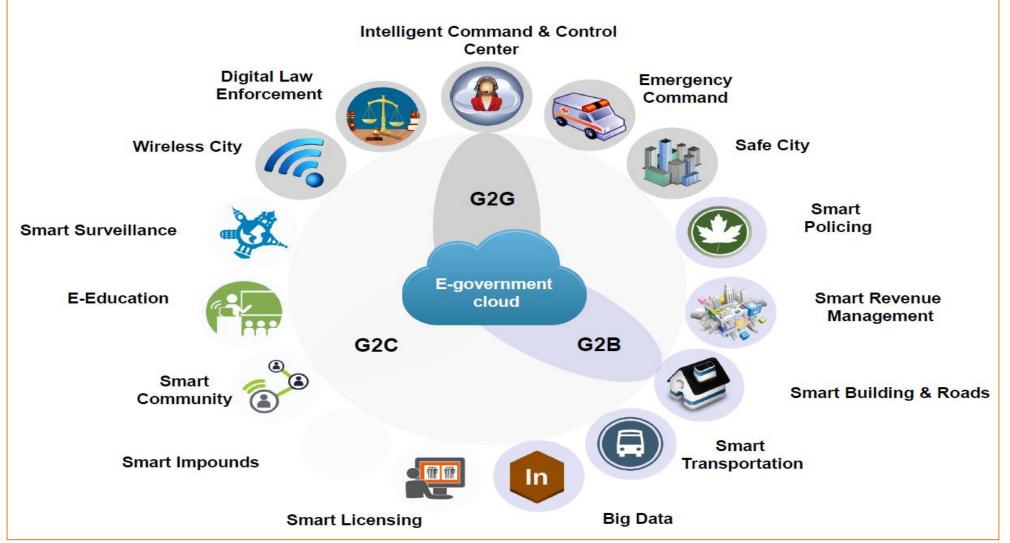


Sanitation other areas: E The skills required to operate and manage sophisticated sanitation and WWTW technologies are often scarce outside of major urban centres; consequently downstream users and ecosystems are subjected to high pathogen loads and eutrophication, and endure higher treatment costs to achieve potable water standards. Inhabitants in some rural areas still do not have access to safe sanitation. Pit toilets in rural and informal areas are frequently under-serviced, exposing residents to disease. (Note: The grading for "all other areas" in 2011 ought to have been an E, and that grade remains.)

Source: SAICE Report Card

SALGA's Smart Cities Framework





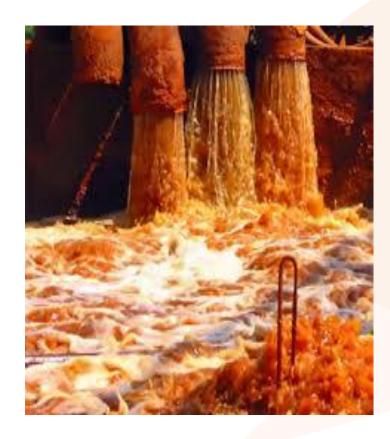
Status of Facilities in SA

Province	#WW		Design Capacity (MI/d)	# of WSAs with ADs	# of WWTWs with ADs	Total # of ADs	DesCap of WWTW with ADs (MI/d)	Flow to WWTWs with ADs (MI/d)	Total AD volume (MI)
MP		76	322	4	8	11	55	58	15
NW		37	290	4	6	12	144	114	21
FS		93	401	6	10	51	192	163	38
GP		58	2573	. 8	35	222	2479	2263	882
KZN		141	1085	> 8	21	56	692	532	89
LP		58	187	3	7	30	80	76	40
WC		158	1025	7	11	26	313	217	52
NC		79	139	3	4	10	80	48	18
EC		124	489	3	6	12	89	68	13
SA-total	[[324	6511	46	108	430	4124	3539	1167

ACID MINE WATER SOURCE OF "NEW WATER"



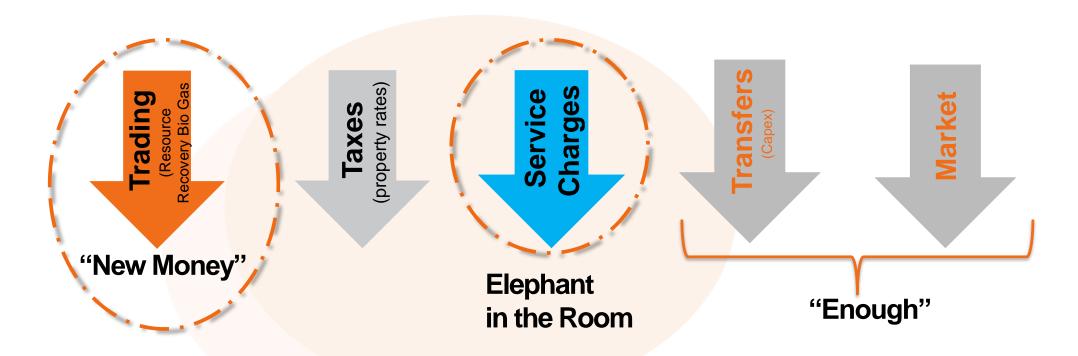
"New" Water Resources Development to be competency of the Department



Acid Mine Water

Funding mix for social and economic infrastructure (4Ts + M)





Infrastructure Development and Management including operations and maintenance

Financial Performance – Debtors and Creditors per S71 as at 30th June 2017



- ☐ Municipal debt continues to grow; exacerbated by the culture of non-payment.
- ☐ Debtors at R128.4 billion is greater than the total LG grant allocation of R111 billion
 - Households R83 billion
 - Commercial R27 billion
 - Organs of state R7.4 billion

Collection Rate Indicator as at 30 June 2017

44	19	24	28	48	78	16
< 50	50 - 59	60 - 69	70 - 79	80 - 94	>= 95	Unknow n

Note that the government debt reported by municipalities have not been verified by the respective government departments

- Municipalities owe creditors significant amounts that threaten the livelihood of these suppliers amounting to R43 billion
 - Bulk electricity R16 billion
 - Bulk water R6.8 billion
 - Trade creditors R 11.9 billion

PROJECT APPROACH

SOUTH AFRICAN LOCAL GOVERNMENT ASSOCIATION

SALGA

Inspiring service delivery

- Project Value and Complexity
- Economic vs Social Infrastructure
- National vs Regionalisation vs Local Infrastructure Approach



INFRASTRUCTURE DEVELOPMENT APPROACH



Comparing Alternative Service Delivery Options

Procurement Alternatives

Option	Asset Ownership	Operations and Maintenance	Capital Investment	Commercial Risk	Duration
Service Contract	Public	Public and Private	Public	Public	1-2 Years
Management Contract	Public	Private	Public	Public	3.5 Years
Lease	Public	Private	Public	Shared	8-15 Years
Concession	Public	Private	Private	Private	25-30 Years
ВОТ/ВОО	Private and Public	Private	Private	Private	20-30Years
Divestiture	Private or Private and Public	Private	Private	Private	Indefinite (may by limited by license

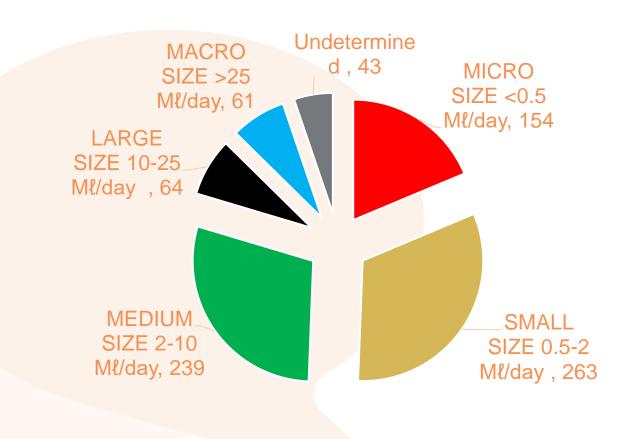
- National Water Resources and Services Authority
- Construction Unit of the Department of Water and Sanitation
- Water Boards
- Municipal Multi Jurisdictional Minister of COGTA may request municipalities to establish such in consultation with functional area Minister



We have the facilities



- Regulatory process
- ☐ Create Demand (uptake)
- Finance
- Procurement Processes
- Delivery Model
- Sustainability



- MICRO SIZE <0.5 Mℓ/day
- MEDIUM SIZE 2-10 Ml/day
- SMALL SIZE 0.5-2 Ml/day
- LARGE SIZE 10-25 Ml/day

RECOMMENDATIONS



- ☐ Quantify demand for re use and energy
- ☐ Intensify "New Water" development given the water security challenges
- Approach National Treasury for a procurement reform process
- □ Collaborate with funders to explore opportunities for project funding
- Develop a project prospectus

THANK YOU



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