





This document is an initial overview. Please send any comments to mes@voluntasadvisory.com

Public-Private Partnerships in South Africa

A very brief introduction

6 September 2017

Agenda

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• Regulations of Water PPPs in South Africa

• Past and current water PPPs in South Africa: Overview and Case Studies

Barriers and Solutions

Appendix

Key principles for this project

PPPs are only one of many ways to improve water access and meet financing needs

 We want to highlight its potential, but never to the detriment of other more effective and/or locallyappropriate approaches

We do not recommend a one-size-fits all approach to PPPs

• We raise awareness of potential types of PPPs, but never push through any off-the-shelf approach

The Setting up of a PPP is beyond our scope

- We hope that more PPPs are started if they prove to be the best option, but that is beyond our scope
- Any PPP must of course follow the standard procedure in SA



We are taking a bottom-up approach to find out if PPPs are the right choice in a South African context

PPPs have two key features: (1) the private actor provides services/goods, and (2) assumes a greater degree of risk

"South African law defines a PPP as a **contract between** a **public** sector institution/municipality and a **private** party, in which the **private** party **assumes substantial financial, technical and operational risk** in the design, financing, building and operation of a project."

- Republic of South Africa Department of National Treasury, PPP Unit

"A long-term contract between a private party and a government entity, for providing a public asset or service, in which the private party bears significant risk and management responsibility, and remuneration is linked to performance."

- PPP Knowledge Lab*

PPP types are differentiated according to the allocation of responsibilities, either to public or private actor

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	Utility Restructuring Corporatization Decentralization	Civil Works Service Contracts	Management and Operating Contracts	Leases/ Affermage	Concessions BOT Projects DBOs	Joint Venture/ Partial Divestiture of Public Assets	Full Divestiture
Asset Ownership	Public	Public	Public	Public	Public (For BOTs: Public- Private)	Shared	Private
Commercial Risk	Public	Public	Public	Shared	Private (Public for DBOs)	Shared	Private
Capital Investment	Public	Public	Public	Public	Private	Shared	Private
Fee collection	Public	Public	Public	Private	Private	Private	Private
Operation & Maintenance	Public	Shared	Private	Private	Private	Private	Private
Typical duration	-	1-2years	3-5years	8-15years	25-30years	-	Indefinite (may be limited by license)
	-	1-2years	3-5years	8-15years	25-30years	-	be limited by

Not relevant

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Appendix

Water PPPs are regulated both on national and municipal level

National Regulation

(National and Provincial PPPs, Water Boards, Water Research Commission, other water owners under PFMA schedule 3B) Municipal Regulation
(Water Service Authorities, Water Service Providers)

Water Services Act no. 108, 1997

- Includes general legislation on the WSAs and their duties
- The Act regulates the procurement mechanisms in which WSAs may engage when outsourcing municipal services

National Water Act, 1998

- Encompasses regulation on the water sector in general
- Informs the pricing strategy for water use charges and financial assistance for municipalities

Public Finance Management Act, 1999 (PFMA)

- Treasury Regulation 16 issued to the PFMA
- Defines the PPP project cycle for provincial and national PPPs, where municipal services are provided

Municipal Finance Management Act, 2003 (MFMA)

- Governs financial affairs of municipalities; establishes treasury norms and standards for the local sphere of government.
- Ch.11 addresses PPPs.

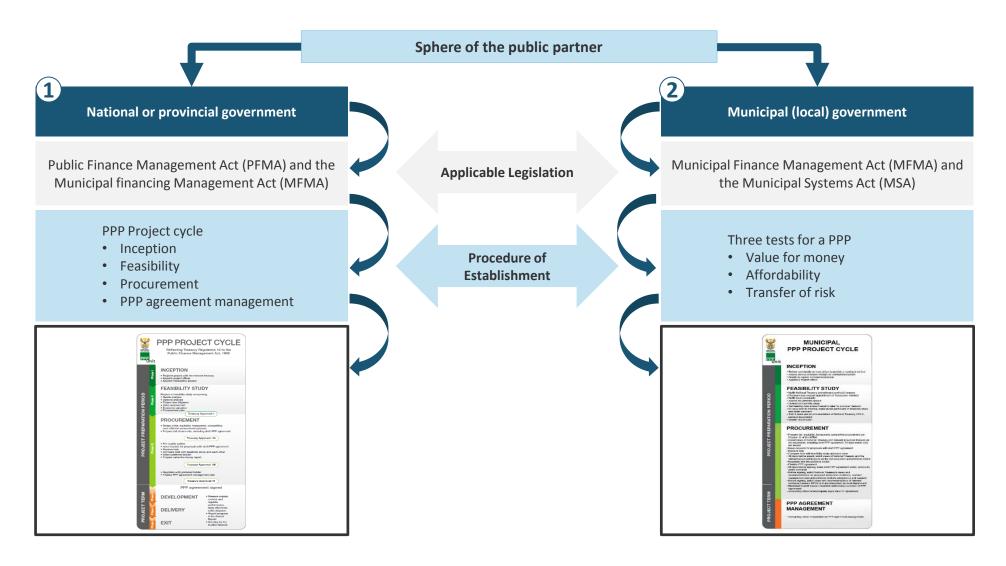
Municipal Systems Act, 2000 (MSA)

- States when the municipality must review and decide on a mechanism to provide a municipal services.
- When private actor provides municipal services.

Municipal Public-Private Regulations, 2005

 Addresses the PPP provisions in both the MSA and the MFMA, and matters in the MFMA related to the procurement of multi-year PPP agreements.

The establishment process of a PPP depends on the public actor's position within the government spheres



The formal PPP procedure applies when private actors provide municipal water/sanitation services



Type of service provided

Potable water supply systems

Potable water supply systems – the procurement of raw water (from surface and underground resources), water treatment and purification to potable standards, the purchase of potable water, distribution, storage, reticulation and delivery to the supply point for both domestic and non-domestic use

OR

Domestic sewage treatment and disposal systems

The collection of sewage from domestic or industrial users, the delivery of the sewage to treatment facilities and the treatment of such sewage to acceptable standards for disposal into natural water courses



Municipal Service (PPP procedure applies)

The formal PPP establishment procedure applies to PPPs where the private actor is to provide municipal services. Municipal services are considered to be potable water supply systems, or domestic sewage treatment and disposal systems

Any other water & sanitation services related to:

Supply systems for industrial (non-potable) water

Industrial wastewater and disposal systems

Disposal of sludge from sewage treatment facilities

Scientific services

Meter reading, billing and revenue management



Municipal Support Activity (Article 78 of MSA does not apply)

The **formal PPP establishment procedure does not apply** to PPPs where the **private actor** is to **provide municipal support activities**, as the Water Service Authority retains management and financial control as well as a significant level of risk

Source: National Treasury and Department of Provincial and Local Government. Municipal Service Delivery and PPP Guidelines. Water and Sanitation Feasibility Study Toolkit p. 1-2

Art. 78 of the Municipal Systems Act no.32 of 2000 prescribes four steps to starting a PPP

Review internal mechanism

- Triggered by the need to decide on a mechanism to provide a municipal service terms of section 77 (7 different triggers)
- Consider (in-)direct costs and benefits associated with project incl. effect on environment, human health, well-being and safety
- · Consider to which extent reorganization of administration and development of internal HR capacity could be utilized
- · Consider impact on development, job creation and employment patterns; solicit views of organized labour

Decision to explore external

• Decide on pursuing internal mechanism at hand or assessing the service provision through external mechanism

Explore external mechanism

- Inform local community of intention to explore the provision of the service through an external mechanism
- Consider (in-)direct costs and benefits associated with project incl. effect on environment, human health, well-being and safety
- Consider current and future capacity of potential service provider to furnish skills, expertise and resources necessary
- Consider impact on development and employment patterns; solicit views of the local community and organised labour

Decide on internal vs external

- Decide between internal and external mechanism to provide the service
- Consider the requirements of section 73(2): a municipal service must be equitable, accessible, be provided in a manner that respects use of available resources, is financially viable, environmentally sustainable, and is regularly reviewed with a view to upgrading, extension and improvement)

Agenda

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Appendix

(1) South Africa has experience in establishing successful water and wastewater PPPs

INITIAL CLASSIFICATION – TO BE DISCUSSED

PPP Type 1*	PPP Type 2	Contract Period	Service Provided	Municipality	Private Partner
	Lease Contract	1995- 2000	Abstraction, purification, distribution, wastewater collection and treatment	Stutterheim	WSSA
	Lease Contract	1995- 2000	Abstraction, purification, distribution	Fort Beaufort	WSSA
	Operate and Maintain	1999- 2024	Abstraction, purification, distribution, wastewater collection and treatment	Queenstown	WSSA
	Concession	1999- 2029	Abstraction, purification, distribution, wastewater collection and treatment	Mbombela (Town of Nelspruit)	Sembcorp Silulumanzi
	Concession	1999- 2029	Water purification and distribution, wastewater collection and treatment	Illembe DM (Dolphin Coast)	Siza Water Company
	вот	2001	Built, operates and maintains wastewater treatment works	eThekwini; WSA = eThekwini Water Services	Durban Water Recycling (Pty) Ltd.
	Management Contract	2001- 2006	Management contract providing expertise	Johannesburg MetroM	Johannesburg Water Management (Pty) Ltd
	вот	2002 - Current	Financed, operates and maintains water and sewerage bulk infrastructure	Rustenburg Water	WSSA
	Management contract	2005- 2011	Management contract providing expertise	Maluti-a-Phofung LM	Uzinzo Water Services

^{*)} The formal PPP establishment procedure only applies, if private actors provide municipal services:

Note: **) On behalf of Rustenburg Trust; before: Magalies Water. WSSA = Water and Sanitation Services South Africa Ltd.

⁼ Municipal services

⁼ Municipal support activity

(2) South Africa has experience in establishing successful water and wastewater PPPs

INITIAL CLASSIFICATION – TO BE DISCUSSED

PPP Type 1*	PPP Type 2	Contract Period	Service Provided	Municipality	Private Partner
	вот	2012	Built (partially), operates and maintains the Northern works	Johannesburg Water	WEC Projects (Pty) Ltd
	Operate and Manage	2014- 2016	Manages, operates and maintains water treatment facilities	King Cetshwayo DM	WSSA
	вот	? - Current	Refurbishment of potable water treatment plant and subsequent operation for 14months	Ndlambe LM	Veolia water technologies
	Operate and Maintain	? - Current	Operates and maintains Zandvliet wastewater treatment works	Cape Town	WSSA
	Research Study	1999- 2000	Project Management (Research Studies)	Durban MetroM	Vivendi Water
	BOT (pressure management)	2005- 2010	Built, operated and maintained an advanced pressure management installation to reduce revenue water losses	Emfuleni LM	WRP Pty Ltd
	Operate and Maintain	2010- Current	Operates and maintains desalination plan	Mossel Bay LM	Veolia water technologies
	-	2011	Provides funding for water demand management activities	Emfuleni LM	Sasol New Energy and GIZ
	Operate and Maintain	? - Current	Operates and maintain wastewater treatment works for the generation of Biogas	Ekurhuleni MM (East Rand Water)	Barloworld Power

^{*)} The formal PPP establishment procedure only applies, if private actors provide municipal services:

Note: **) WSSA = Water and Sanitation Services South Africa Ltd.

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(2) South Africa has experience in establishing successful water and wastewater PPPs

INITIAL CLASSIFICATION – TO BE DISCUSSED

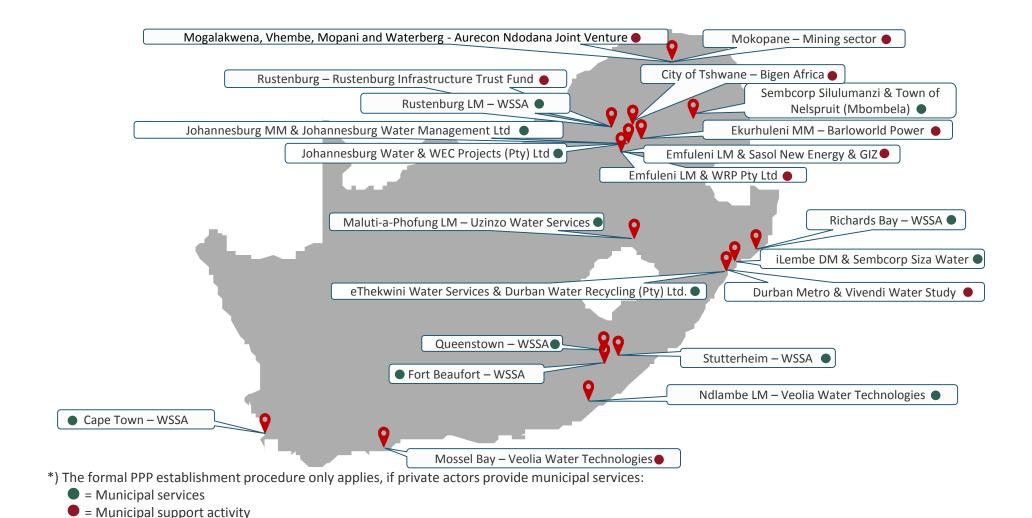
PPP Type 1*	PPP Type 2	Contract Period	Service Provided	Municipality	Private Partner
	вот	? - Current	Consulting services for the construction of a water purification plant; subsequent operation and maintenance by water board	City of Tshwane	Bigen Africa; Magalies Water
	Joint venture	? - Current	Funding for the construction of pipeline from dam	Mogalakwena LM; Town of Mokopane	Mining sector
	Joint venture	? - Current	Capital Investment to extend Olifants river catchment area	Mogalakwena, Vhembe, Mopani and Waterberg	Aurecon Ndodana Joint Venture (ANJV)

^{*)} The formal PPP establishment procedure only applies, if private actors provide municipal services:

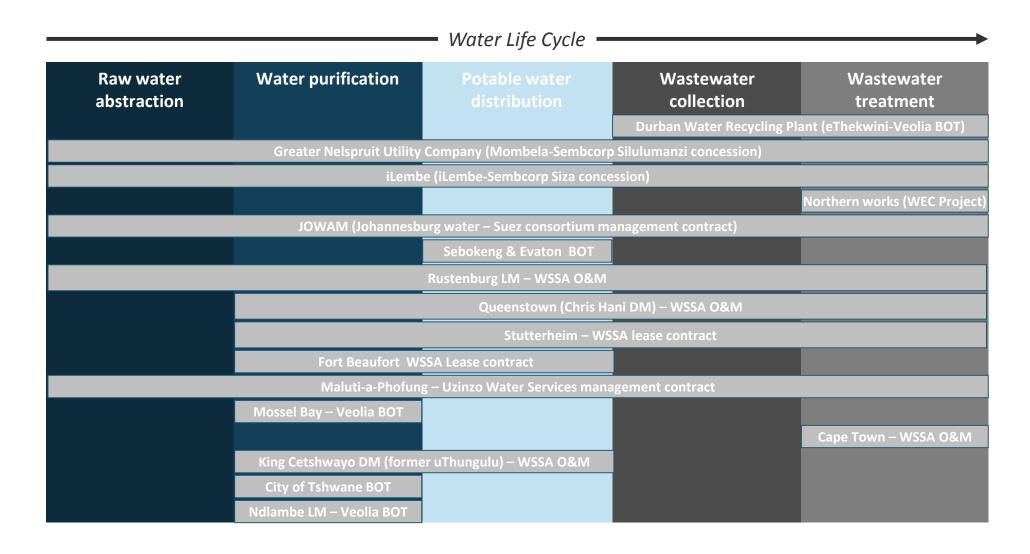
⁼ Municipal services

⁼ Municipal support activity

PPPs have taken place across South Africa



Most common application areas for PPPs are water purification and wastewater treatment



Source: Based on own research

Case Study: The Mbombela concession improved quality and access, and left lessons for future PPPs

	Water and Waste Water Treatment
Timeframe	1999-2029
Туре	Concession
Value	-
Risk sharing	-
# People	350k (~50% of pop.)
Financial detail	-

Private party	Sempcorp Silulumanzi
Parent	SembCorp group, Singapore
Revenue	550M USD
# Employees	-
Core services	Utilities; Urban development
# of PPPs	-
# PPPs RSA	2

Public party	Mbombela LM
Category / Party	B / ANC
Population	696k (2016)
Informal settle.	%
Bill payment	-
Blue drop	-
Green drop	-

Case summary

Background	Water infrastructure in poor condition; High water losses; High rate of non-payment & illegal connections
Procurement	A concession for water and waster water treatment for the Mbombela Local Municipality
Operational history	 Changes in national policy for free basic water services led to renegotiations of the contract; High NRW due to illegal connections To remedy this, the partners agreed on a decreased need for capital investment; Introduction of service restrictions against non-payers Status as of 2014: Concession is considered to be viable and the area in possession of better water and sanitation services than without PPP; Service provision is reliable; High payment collection rate; NRW reduced to 31%.
Public lesson	• M&E of private operator is key, ensure sufficient staff capacity; consider right balance between contract flexibility and stability
Private lesson	Know the service area and the difficulties it comes with; agree terms upfront in case of public takeover
Assessment	• An economic hub is imperative for the financial sustainability of WSPs; PPP supportive policies need to be established

Source: 2016/17-2018/19 Annual Budget and MTREF of the Mbombela LM; Economic Research Southern Africa (ERSA). The experience of Private Investment in the South African Water Sector: The Mbombela Concession. (2014).

Evaluations of the Mbombela PPP suggest that M&E, and stakeholder involvement are key

ERSA – The Experience of Private
Investment in the South African Water
Sector: The Mbombela Concession

World Bank – Mbombela (Nelspruit)
Water and Sanitation Concession South
Africa (2010)

Academic review – A critical review of PPP in the management of water services delivery: The case of Nelspruit







- Overview of the PPP from beginning of the concession contract (1999) to 2014
- Interviews of 12 key stakeholders to the development of the concession, its difficulties and the changes brought by the concession

- Thorough, detailed analysis from beginning of concession contract (1999) to 2010
- Focus on every step of the concession contract, including interviews of key stakeholders, a section of lessons learned, and a section with recommendations

- Overview from the establishment of the concession contract to 2006
- Highlights complexity of the establishment of a PPP and its subsequent implementation
- Encompasses lessons & implications learned

PPP needs strong leadership to deal with tensions

(E) An economic hub is imperative for financial sustainability of WSPs

PPPs have to engage all stakeholders pro-actively

- (F) Consideration of contract flexibility vs contract stability
- PPPs have to adapt to local conditions know your service area
- G A PPP-supportive legal & policy context needs to be established

M&E is crucial both from municipal and national level

1 Back-Up: ERSA lessons learned during the Mbombela PPP



The experience in Mbombela provides useful insight for other developing areas as to how it is possible for private participation in the water sector to result in increased efficiencies without retarding social improvements.

- Concessions need to be carefully managed with appropriate KPIs to ensure that they are not merely profit focused but are actively pursuing social goals as part of their contract.
- 2. PPPs under a concession contract still require active state participation in ensuring that the contract conditions are met through strong oversight and monitoring. The public sector cannot completely absolve itself from responsibility by outsourcing through a concession.
- 3. Know your service area: The original mandated area was the Nelspruit town council in the municipality but after a new demarcation the concession inherited a bid area outside of Nelspruit. The number of households to be serviced thus grew significantly. The increased responsibility placed pressure on the concession to meet the new demand for water services.
- **4. Flexibility of contract is important** as changes in national policy for free basic services resulted in renegotiations of the contract and the decrease in capital

investment required during the first five years of the concession. This allowed for balanced accounts.

- 5. In sum-up, the study found that the Mbombela PPP taught the South African public sector that water PPPs could:
 - Provide equitable water distribution (even though challenges for the rural areas remain)
 - Improve water quality
 - Improve efficiency in decision-making, fault resolution, and project execution
 - Fund themselves
 - Scale-up capital investment (water reticulation system, such as pipes, payment meters, and pumps for maintenance and expansion)
 - Implement a comprehensive asset register that not only complies with MFMA requirements but will also be a valuable working tool for maintenance and refurbishment of assets.
 - Implement and maintain modern GIS water and sanitation master planning and a fault reporting and repair system that links with the customer billing and service level data.
 - Bring higher levels of skills and experience, resulting in better performance, increased functionality in terms of building plan approvals, township establishment and project management.

Back-Up: World Bank lessons learned during the Mbombela PPP



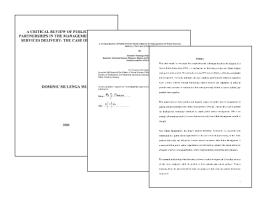
1. What worked:

- The concession brought substantial additional management talent on the dayto-day water and sanitation operations. This is beyond what the Municipality could have provided.
- Backlogs of access to the formal water and sanitation systems have been substantially reduced since 1999 - a significant accomplishment, particularly given the high levels of growth in the number of households over the past ten years.
- Water quality is excellent, as recognized by DWEA's Blue and Green Drop awards.
- Employee training and development programmes are strong and employee retention is good.
- Revenue generated of the town of Nelspruit has been critical to extend services
 to the previously unserved and underserved areas as well as subsidising the
 provision of services to the poor. The availability of such an economic hub is
 imperative for the financial sustainability of any water services supply
 authority.
- Water tariffs are reasonable and comparable with other South African municipalities and national averages

2. What did not work:

- 68% of households do not have a 24-hour water supply. It appears the
 concessionaire understands how to resolve this issue and could eliminate most
 of the issues over the next few years
- There has been **no capital investment** by the concessionaire of shareholder funds and only R54 million of borrowed funding for which the concessionaire is responsible for repayment. A primary reason for undertaking the concession was the access to external financing for capital investment. Although there were reasons for changing the investment expectations of the concession in the past, this area should be addressed by the municipality and the concessionaire.
- The concessionaire has limited its risk and responsibilities through the various renegotiations of the contract. The terms of the contract have been adjusted due to changing external circumstances (change in concession area; national policy introducing FBW services ...). Although, the concessionaire reduced his responsibility for capital investment, he still receives government grants for operating and capital purposes.
- Non-revenue water performance was not significantly improved and
- collections of billings are far below the levels anticipated by the contract. This is the result of the government policy of 'free basic services', which has been used by many customers as a reason to not pay for any services, and a lack of effort by the concessionaire.
- The municipality M&E is weak. Since regulation only occurs through contract
- management by the Municipality, and not from an external entity, the importance of a fully capacitated concession monitoring office cannot be overemphasized.
- Various National government agencies have oversight roles for this concession,
- but **no enforcement authority**. Consequently, technical support from the national level appears to ebb and flow, depending on the specific people involved in each of the agencies.

Back-Up: Lessons learned during the Mbombela PPP – academic study



1. Importance of a supportive legal and policy context

- New policies permitted private sector participation in service delivery and opened up parastatals to private sector investment.
- 2. Tensions will always be there. They have to be managed through engagement
- In South Africa, PPPs are considered in some circles to be private sector friendly at the expense of the original goal of redistribution that the ANC adopted in its early days in government. PPPs denote change. But not all people are comfortable with change, especially if it is seen as being threatening to the status quo. Moreover, tensions are heightened because water and sanitation is an essential delivery priority for the government and constitutes a fundamental right.

3. Complexity of a PPP should not be underestimated:

 An illustration of the complexity of and challenges faced in a PPP is the imperative to balance the profit motive with the constitutional rights of the citizens (Right to access FBW services).

4. Fear of job losses and stakeholders' engagement:

- The traditional concern about PPPs is that they create unemployment because
 they advocate a reduced work force in their pursuit of efficiency, cost saving and profits.
- It is important that PPPs are founded based on transparent procedures in which key stakeholders participate unfettered

5. Local conditions will dictate the pace and scope of PPP implementation:

- PPP projects should be cognizant of local conditions because PPP blueprints may not be applicable to the different contexts in which various municipal councils are situated and operate. In the Mbombela concession, the dire poverty that characterizes the area has posed serious challenges to the PPP (incl. high unemployment level; lack of reliable sources of income; unwillingness to pay bills).
- Private actors have to accept that it will take some time before the people accept that they have to pay for services. Until such a time is reached, it is important to utilize opportunities such as subsidies, entailed in the concept of free basic water services, in setting the rates.

Case Study: The iLembe concession improved quality of water service provision, after initial struggles

	Water and Waste Water Treatment
Timeframe	1999-2029
Туре	Concession
Value	R386 M
Risk sharing	-
# People	61k (~10% of pop.)
Financial detail	2.6M/Y lease

Private party	Sempcorp Siza Water (SWC)	
Parent	SembCorp group, Singapore	
Revenue	550M USD	
# Employees	-	
Core services	Utilities; Urban development	
# of PPPs		
# PPPs RSA		

Public party	Ilembe District Municipality	
Category / Party	C / ANC	
Population	658k (2016)	
Informal settle.	%	
Bill payment	-	
Blue drop	-	
Green drop	-	

Case summary

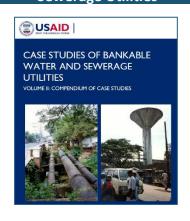
Background	Water infrastructure in poor condition; water losses exceeding 40%; high rate of non-payment		
Procurement	A concession for water and waster water treatment for the iLembe District Municipality		
Operational history	 Change in public partner due to municipal reform; insufficient revenues from low tariffs etc led to private partner 'default' in Y2 To remedy this, 35M R investment in infrastructure; introduction of tiered pre-payment systems; increase in water tariffs Status as of 2004/05: concession is considered to be viable; service provision is reliable; 97% payment collection rate; negligible consumer debt; water losses reduced to 10%. SWC is covering all its costs and retaining some funds for investment Municipality considering whether to take over project 		
Public lesson	• Ensure sufficient staff capacity for correct M&E of private operator; ensure buy-in of all public stakeholders		
Private lesson	Create contingency plan in case of municipal merger; agree terms upfront in case of public takeover		
• Rocky start of this PPP underscores necessity of proper planning; major benefits unlocked if structured appropriately			

Source: Robbins, G. (2004). A Water Sector Public-Private Partnership Case Study: Illembe District Municipality – Siza Water Company, p. 2 Financial results available at: http://www.sembcorp.com/en/investor-relations/results-and-reports/financials-at-a-glance
USAID. (2005). Case Studies of Bankable Water and Sewerage Utilities. Volume II: Compendium of Case studies, p. 10. http://www.localgovernment.co.za/districts/view/17/iLembe-District-Municipality#management

PPPs need strong partnership and involvement of stakeholders, M&E, technical and staff capacity

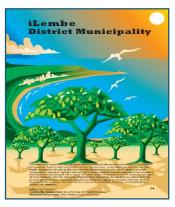
USAID – Case Studies of Bankable Water and Sewerage Utilities A Water Sector Public-Private Partnership Case Study – Glen Robbins The South African Institute of International Affairs Assessing PPPs in Africa

Water Dialogues – iLembe
District Municipality Case
Study



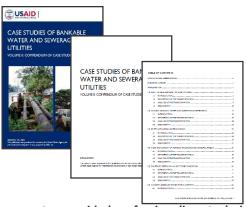






- A Capacity building of all stakeholders (especially WSAs) is crucial
- B A strong leadership/partnership structure that is able to deal with crisis situation is important (include a trusted broker)
- Involvement of all stakeholders into contract processes and subsequent communication structure is vital for support of the partnership
- Institutional and policy certainty/clarity must be given
- (E) Key information of PPP is built must be accurate (e.g. population growth, specific concession area, municipal grants, FBW etc.)

1 Back-Up: USAID lessons learned during the iLembe PPP

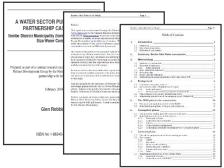


- 1. The private operator provided professionalism, technical skills, and knowledge resources that the municipality lacked:
 - In spite of a lack of contract monitoring, SWC pursued planned programs focusing on improved operation and maintenance with specific maintenance schedules, unaccounted for water loss, staff training, billing and collections, and a rational investment program.
 - SWC has access to technical resources deriving from Saur International and
 other concession partners when problems arise. This capacity and the actions
 taken by the concessionaire have led service improving within the concession
 area and general satisfaction with the level of service, even though tariffs
 were increased.
- 2. Flexibility of the contract:
 - The contract allowed for essential revisions to be made, in light of changing circumstances. This made it possible to increase tariffs, renegotiate the rental fee, and down-size the investment program to correct for unrealistic growth
- (B) (E) projections in the initial agreement. The contract allowed rapid decision-making, something that is difficult for municipal government. Renegotiation of the agreement in 2001 was a major factor in making the concession

successful, as it provided the opportunity for all to assess the situation realistically after SWC had the chance to operate the system for some time.

- 3. Demonstrated commitment to meeting the terms and spirit of the contract:
 - Despite problems that arose (i.e., the inability of the municipality to monitor the contract properly, the need to accommodate the free water requirement,
 - (B) and the impact of poor growth rate projections), both the concessionaire and the local government authorities have demonstrated commitment to the concession, even in the face of shifting local government structures. To its credit, the city council recognized the positive achievements made by SWC, the fact that the city government did not have the capacity to manage the system with its own resources, and the substantial amount of time and resources that would be required to select a new service provider. Therefore, the city was willing to pursue renegotiation of the contract through the terms provided in the agreement.
- I. The operator focused on community consultation and outreach:
 - Liaison with the consumer community has taken a variety of forms, including newsletters, flyers, and face-to-face discussions about specific issues. The
- operator acts on the belief that, if they can keep customers happy by providing professional services with accurate invoicing and prompt answers to questions and complaints, then customers will be satisfied. SWC monitors consumer complaints, generally responding more rapidly than the concession contract requires. SWC is obliged to submit a monthly customer service report that provides details of customer issues, such as new and closed accounts, disconnections, and number and types of complaints.

2 Back-Up: A Water Sector PPP - lessons learned in iLembe



- 1. Lessons identified by Municipal officials:
- Institutional and policy certainty is important
 - Capacity building for all stakeholders is essential
- B Capacity needed to handle crisis periods
 - Monitoring and evaluation systems must be built up
 - Concession arrangements enable maintenance and upgrading of core infrastructure – municipalities struggle with this as trend is to spend grant income on extension of services
- Policy clarity is required on issues such as free basic water, allocation of grants in concession areas etc
- 2. Lessons identified by the Councillor:
 - Concessionaire invests capital and maintenance funds
- WSA capacity building needed for municipality
- Regular meeting platform with all stakeholders needed
- Buy in of labour and community is important
- E Correct forecasting is essential
- 3. Lessons identified by the Concession Manager:
- Institutional and policy certainty is important
- Municipalities need capacity building
 - Boundaries of concession area need to be very carefully thought through
- Leadership capacity is essential in making a concession work

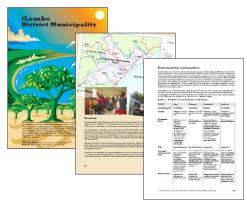
- Improved regulation is required in terms of how municipalities handle their own investment processes related to WSS so as not to create an imbalance reflected in prices
 - Policy clarity is required
- B The presence of a trusted broker such as MIIU is important
- 4. Lessons identified by Ratepayers:
- B Pre-concession stakeholder processes must be more thorough to equip for participation and to deal with crisis periods
 - Private concession routes do not mean cheaper services but do bring service quality improvements
- Transparency and involvement in contract processes is important
 - Monitoring and evaluation are important and generally not handled well by municipalities
 - International companies do not necessarily bring anything more
- Involvement procedures must be put into place
- 5. Lessons identified by Labour:
- Strong leadership needed to deal with crisis periods
- Transparency and involvement in contract processes is important
- At a minimum the rights of existing service employees must be protected in contract form
- National regulation needed on the issue of privatisation
- Involvement of workers in shareholding secures their buy in
- 6. Lessons identified by Municipal Infrastructure Investment Unit (MIIU) Broker:
- Pre-concession stakeholder processes must be more thorough to equip for participation and to deal with crisis periods
- Information on which concession deals are based must be independently tested
- Institutional and policy certainty is important
- 7. Lessons identified by DWAF (now DWS):
- Ongoing effort is required to secure municipal capacity to ensure management of concessionaire is handled effectively
- Policy direction is needed in more precise terms on free basic services and use of municipal grants

3 Back-Up: SAIIA – Assessing PPPs in Africa



- 1. There is a need for water and sanitation authority capacity building at the municipal level to ensure better performance.
- 2. More accurate information is required in the feasibility studies which form the basis of the concession, particularly with regard to data used in projections.
- 3. D Policy clarity is needed on issues such as free water and allocation of grants in concession areas, and contracts should specify what process should be followed in the event such terms change.
- 4. Greater transparency on the part of the municipality and the private operator would lead to a greater level of trust and acceptance amongst consumers.
- 5. Small water concessions are less commercially viable than larger ones as the private operator is less able to take advantage of economies of scale.
- 6. Given the difficulties with the concession, a management contract with an emphasis on training up local staff to assume management of the water utility might have achieved better results with fewer price hikes to consumers.
- 7. E Some of SAUR's initial investment of R7 million70 was used to pay for the black economic empowerment partners, which meant the concession required additional funds in the form of a loan from the DBSA for maintenance and upgrading of services.

4 Back-Up: Findings on the iLembe Concession with Siza



- 1. Progress in extension of services were made by the municipality but performance stays below average in some aspects
 - In 2007: only 54% of household had access to water and 79% had access to 8.
 sanitation. Provincial averages: 74% and 82% respectively
 - Continual interruptions of supply across all areas
- 2. Siza Water is outperforming iLembe but also operates in a relatively small, wealthy area.
 - Municipal officials felt that if iLembe had access to the revenue streams from the concession are, the municipality could transfer it to less developed areas in the district.
- 3. Shared learning was hindered because partners were ambivalent on the benefits of the concession to the municipality
 - This although the concession was intended to create a teaching/learning environment
- 4. Siza Water fulfils its requirements, however, no adequate monitoring is performed by iLembe
 - This although Siza pays iLembe R1 m to monitor its technical, legal and

financial compliance with contract conditions

- 5. Significant backlogs remain across iLembe DM; level of provision is low. Siza water has few backlogs but also began with fewer backlogs and is operating in a relatively wealthy, urbanised area.
- 6. Siza Water's operations seem financially sound and, after having to make significant infrastructure investments, reported "meaningful profit" starting in 2007. iLembe's financial management of water provision is improving, but it is still running at a loss each year.
 - The user debt is higher than iLembe's yearly revenue
 - Revenue shortages stem from water loss and poor collection from users
- 7. iLembe focused on extending infrastructure and left few funds for operation and maintenance. Siza Water is in a position to invest in core infrastructure and maintenance.
 - Policies regarding household connections are fairly consistent across the DM, whereas policies regarding access to FBW via standpipes varied, depending on the provider.
 - iLembe DM does not use prepaid meters
- 9. Neither provider is directly accountable to users in a clear manner and both have inadequate communication with residents.
 - Both providers have no clear system of involving users in any decisionmaking process with regard to water sanitation supply.



Source: Robbins, G. (2009). iLembe Case Study. Water Dialogues

Case Study: JOWAM shows how to leverage private sector know-how through a management contract

	Corporatization of Johannesburg Water	
Timeframe	2001-2006	
Туре	Management Contract	
Value	R67 M	
Risk sharing	-	
# People	2.8 M	
Financial detail	JW total turnover: R11 B	

Private party	Johannesburg Water Management (Pty) Ltd	
Parent	Suez Environment	
Revenue	417 M Euros (2014)	
# Employees	13 full-time managers	
Core services	WT &WWT services	
# of PPPs	-	
# PPPs RSA	-	

Public party	Johannesburg Metro M	
Category / Party	A / ANC	
Population	4950k (2016)	
Informal settle.	%	
Bill payment	-	
Blue drop	-	
Green drop		

Case summary

Background	• Lack of capacity to handle critical technical, billing and user contact functions; lack of data for management and monitoring; very high unaccounted-for-water, estimated at 43%; high non-payment by users; high levels of environmental non-compliance; and poor customer interface and customer relations management; in 2001 bankrupt with a deficit of R400 M	
Procurement	• A management contract for the corporatization of the water and sanitation services of Johannesburg Metro Municipality	
Operational history	 JW & JOWAM put together a financial turnaround strategy which restored financial viability in 2006 (+R24M). The turnaround strategy included that the CoJ provided JW with an interest carrying grant (a form of subsidy) of R910 M over the period 2002/03 to 2005/6. NRW reduced to 36% 	
Public lesson	• Performance-based contract incl. incentive structure for remuneration; single, clear objective for the PPP (no multiple, catchall targets)	
Private lesson	Clear & thought-through allocation of responsibilities; agree terms upfront in case of public takeover	
Assessment	• The JOWAM management contract provided a critical boost to technical and leadership capacity necessary to the new JW	

PPPs need clear objectives & responsibilities, high level of political commitment, strong leadership

The Water Dialogues Synthesis Report 2009 - Johannesburg Case Study



- Overview of the PPP from beginning of the management contract 2001 to 2006
- Focus on performance indicators; development of the PPP & challenges surpassed

2)

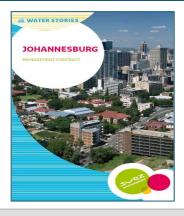
Water P-Notes – Using a Private
Operator to Establish a Corporatized
Public Water Utility



- Overview of management contract
- Focus on how to replicate the corporatization of a water utility by a private operator to other cases



Suez environment – Water Stories: Johannesburg Management Contract



- Overview of the PPP from the perspective of the private actor – Suez environment
- Focuses on the improvements achieved during the partnership
- Overview of contract set-up

- A High level of political commitment strong ownership of all partners
- D Strong leadership overseeing processes
- B Single, clear objective for the PPP (no multiple, catchall targets)
- (E) Clear & thought-through allocation of responsibilities
- Trust in partners & presence of a reputable, independent auditor
- Performance-based contract incl. incentive structure for remuneration

1 Back-Up: Water Dialogues: lessons learned during JOWAM



- Key factors ensuring the success of the JW restructuring process included the
 introduction of the JOWAM management contract, the commitment by the CoJ
 to its shareholder role, and the responsibility taken by the CMU of the CoJ,
 supported by the JW Board, in guiding JW's (and therefore JOWAM's) contract
 implementation and interaction with CoJ governance structures.
- The commitment to and the active oversight of JOWAM's contractual obligations
 to JW resulted in significant gains to JW, CoJ and WSS users, through improved
 service systems, managed with enhanced efficiency and better use of resources.
 However, contractual omissions around participatory processes and excessive
 attention on technical dimensions of the contract contributed to performance
 gaps.
- 3. The positive role of leadership and a widely-shared commitment to pragmatism in decision-making, were seen to be of relevance in allowing JW to consolidate during the JOWAM period.
- 4. Service delivery choices, informed by CoJ policy, while making some progress against backlogs, introducing a measure of service innovation (Level 2 service), and improving efficiencies have, together with the pressures of growing urbanisation and density, generated ongoing service challenges requiring attention.

- 5. Some recognition of improved services reflected in complaint responses is eclipsed by concerns at inadequate communication and consultation, as well as a lack of engagement and active participation in determining policy and implementation options.
- 6. A pragmatic approach to the implementation of institutional model seems to have been an important factor that allows for better fit with the context in which WSS has to be provided, and which changes constantly.
- 7. The governance model seems to be crucial in influencing performance of WSS for poor households

2 Back-Up: P-Notes lessons learned during JOWAM



Several aspects stand out in the design and implementation of this PPP:

- 1. A high level of political commitment to the PPP from the start. The municipal
- government was strongly committed to turning around W&S services. There was a strong ownership of the choice made to bring an experienced private operator to help for a few years under a management contract—a decision made entirely by the elected municipal government, without donors' conditionality for accessing external funding.
- 2. The PPP had a single clear objective—to establish a viable, corporatized public water utility with well-defined performance targets. It was not designed as a catchall with multiple unrealistic targets.
- 3. The municipality was able to adopt a flexible approach to measuring the year-by-year impact of the private operator. Where a reliable baseline is lacking, assessment of an operator's performance becomes difficult, and this often leads to distrust and conflict. This issue was approached with notable pragmatism in Johannesburg. The contract's first year was dedicated to establishing a reliable baseline and performance monitoring system so that progress could be reliably measured, against increasingly stringent targets, in later years. This solution required both sufficient trust between the partners and the presence of a reputable independent auditor.

- © Both partners were committed to success and worked well together. The private operator proved ready to devote substantial resources to making the contract work (probably in the hope of developing future contracts). Meanwhile, the city authorities didn't interfere in the utility's day-to-day management. They also appointed as JOWAM's counterparts competent executives who supported corporatization reform. The parties built a relationship of trust, essential for dealing with new developments during the contract.
- 5. There was a strong focus on developing human resources. The private operator sent a large number of expatriates during the first year of the contract to ensure a rapid transfer of knowhow, and a competent management team from the city was gradually trained and installed in positions of responsibility. The private operator also built ownership of the reform among the utility's employees so that they would actively support its efforts to improve performance. Much of the progress achieved was because the utility's employees were treated as assets and partners in the ongoing reform.
- Other factors enhanced success: while the municipal W&S departments were not functioning well at the start of the management contract, neither were they dysfunctional, as was often the case with management contracts implemented in other (and often less developed) countries. In addition, the infrastructure was generally in satisfactory condition. This allowed the private operator to focus on improving the management of staff and assets, and develop a new corporate vision of efficiency and customer orientation.

Back-Up: Lessons learned during the Johannesburg PPP – academic study



- 1. E Clear allocation of responsibilities:
 - Johannesburg Water was accountable for the delivery of water and wastewater services. The utility's board of directors and its managing director were appointed by and represented the municipal authorities
 - The day-to-day management of the water and sanitation services was delegated to the private operator JOWAM, making it responsible for the utility's overall performance
 - The municipality remained responsible for financing investments, for setting tariff levels, and for funding any potential shortfall due to excessive operating costs or insufficient revenues.
- 2. (F) Contractual arrangements encompassing incentive structures:
 - The management contract was performance-based and thus the private operator's payment was linked to its performance. The structure was:
 - A fixed management fee
 - A "Part A" variable incentive payment linked to contractual targets for improvements in performance (enhanced customer service, compliance with quality standards, better facilities maintenance, annual capital investment

- programme, development of human resources)
- A "Part B" variable incentive payment linked to the X factor in the financial bid, representing the additional revenue collected during the life of the contract.
- This is also partly the reason why JOWAM had more than 90 % of compliance with contractual targets every year, with clear improvements in customer service, environmental compliance and cost efficiency.
- 3. Partial responsibility transfers should be thought-through:
 - JOWAM had little control over commercial losses, because the responsibility for meter reading, billing and collection were only partially transferred to
- (E) Johannesburg Water from the municipal authorities. In the last two years of the contract, as the City transferred responsibility, JOWAM was able to set up efforts to reduce commercial losses.

Agenda

• Definitions of PPPs
• Regulations of Water PPPs in South Africa
Past and current water PPPs in South Africa: Overview and Case Studies
Barriers and Solutions
• Appendix

What are other pitfalls and ways of addressing them?

UPDATED AFTER ROUNDTABLE

	Main pitfalls	Mitigation Strategies
	Political will	
	Cumbersome PPP approval process (e.g. article 78)	
	Lack of investor knowledge about SA water landscape	
Cotting up a DDD	Low internal PPP capacity and high upfront cost for advisers	
Setting up a PPP	Opposition from unions (job losses)	
	Opposition from public (price increases and cut-offs)	
	Lack of accurate baseline data	
	Lack of customer base with ability to pay full cost of water	
	Non-payment of bills	
	Irregular PPP approval process	
	Fundamental assumptions about service area change	
Oneveting a DDD	Unclear KPIs for service delivery and service extension	
Operating a PPP	Insufficient stakeholder/civil society involvement (public outreach)	
	Lack of continuous M&E (contract management competence)	
	Uneven risk, investment and profit split (cost and price fluctuations)	
	Insufficient regulatory framework (e.g. water pricing)	

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Back-Up: Ruiters comparison of PPP models in terms of 12 parameters for water services infrastructure delivery

#	Model parameter	State model	Hybrid model	Private sector model
1	Technical/ project risk	100% carried by state	Shared risk (10-90%)	100% carried by private sector
2	Financial risk	State funds everything	Shared risk (10-90%)	Private sector fund everything
3	Contractual risk	Full risk	Shared risk	Full risk
4	Skill/knowledge transfer	No transfer from private sector to protect competitive edge	Easy to enforce transfer from private sector	Private sector retains skills to protect competitive advantage
5	Role of state institution	Local government implements	Local government implements with support of private sector institutions – regulator required	Private sector implements – regulator required
6	Affordability and revenue	Heavy reliance on gov't grants; limited revenue flows; low infrastructure investment	Revenue flows prioritized due to business incentive; investment based on return with subsidy	Revenue flows are of highest priority; investment according to return on equity
7	Value for money	High risk of financing operational inefficiencies	Operational efficiency and cost optimization prioritized	Operational efficiency and cost optimization of highest priority; maximize shareholder return
8	Infrastructure ownership	State owns	State owns	State owns, private sector can ultimately take over
9	Socio-political issues	Local participation required; government can subsidize water at own discretion	Local participation required; government can subsidize as per contract	Social-political concerns present business risk and are therefore highly prioritized
10	Funds following functions	Funds should follow function – funds for local water infrastructure go directly to municipalities	Funds for capital contribution or subsidy flow through the municipality	Private sector recovers costs from users directly, or municipality does it on private sector's behalf
11	Tech and innovation	Limited chance that state benefits from new technology and creative solutions	Shared creativity and technological innovations between private and public sector to max. profit	Creative solutions are of highest priority as tools for achievement of operational efficiency
12	Transparency	Services procured through open tender. Award process can be driven by extraneous factors	Open tender system, private sector must demonstrate it has capabilities to deliver	Open tender system. Performance requirements are high in order to satisfy shareholders

Note: Applied in a study in the Gauteng and Limpopo provinces

Source: Cornelius Ruiters "Public-private partnership conceptual framework and models for the funding and financing of water services infrastructure in municipalities from selected provinces in South Africa" *Water SA* April 2016