



KOPANO YA METSI
UNLOCKING WATER INVESTMENT IN SOUTH AFRICA

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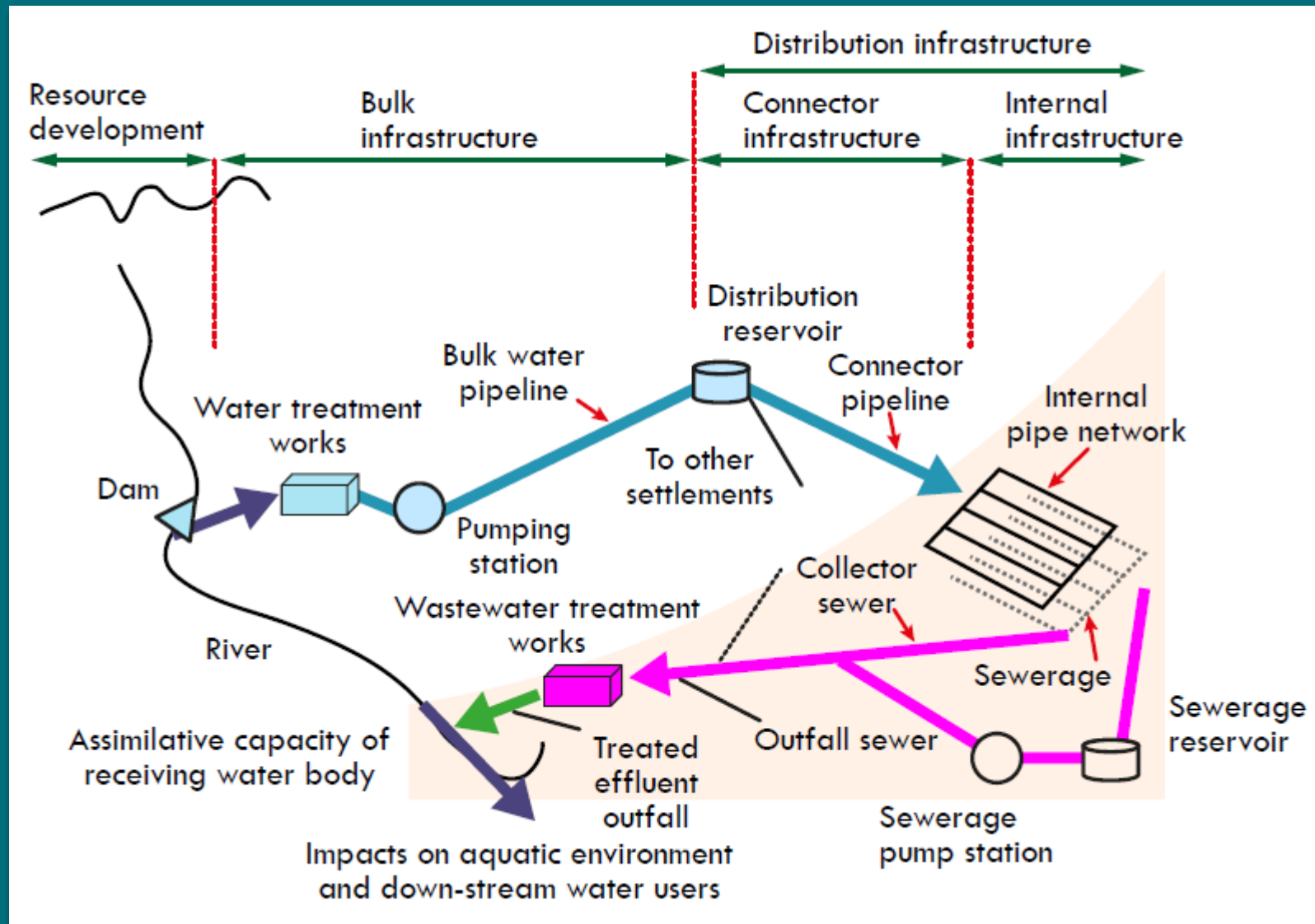
#KopanoYaMetsi

PPP Opportunities Along The Water Value Chain

27 February 2018

Maanda Rashaka, NBI

The water value chain in South Africa:



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

Nature of the ppp*	Contract Period	Service Provided	Municipality	Private Partner
●	1999- 2029	Abstraction, purification, distribution, wastewater collection and treatment	Mbombela (Town of Nelspruit)	Sembcorp Silulumanzi
●	1999-2029	Water purification and distribution, wastewater collection and treatment	Illembe DM (Dolphin Coast)	Siza Water Company
●	2012	Built (partially), operates and maintains the Northern works	Johannesburg Water	WEC Projects (Pty) Ltd
●	? - Current	Financed, operates and maintains water and sewerage bulk infrastructure	Rustenburg Water	Water and Sanitation Services South Africa Ltd. (WSSA)**
●	2001- 2006	Management contract providing expertise	Johannesburg MetroM	Johannesburg Water Management (Pty) Ltd
●	? - Current	Operates and maintains Zandvliet wastewater treatment works	Cape Town	Water and Sanitation Services South Africa Ltd. (WSSA)
●	2014-2016	Manages, operates and maintains water treatment facilities	Richards Bay, KZN	Water and Sanitation Services South Africa Ltd. (WSSA)
●	2005-2011	Management contract providing expertise	Maluti-a-Phofung LM	Uzinzo Water Services
●	1999- 2024	Abstraction, purification, distribution, wastewater collection and treatment	Queenstown	Water and Sanitation Services South Africa Ltd. (WSSA)

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

- = Municipal services
- = Municipal support activity

Note: **) On behalf of Rustenburg Trust

Source: Voluntas research

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

Nature of the ppp*	Contract Period	Service Provided	Municipality	Private Partner
●	1995-2000	Abstraction, purification, distribution, wastewater collection and treatment	Stutterheim	Water and Sanitation Services South Africa Ltd. (WSSA)
●	1995-2000	Abstraction, purification, distribution	Fort Beaufort	Water and Sanitation Services South Africa Ltd. (WSSA)
●	? - Current	Refurbishment of potable water treatment plant and subsequent operation for 14months	Ndlambe LM	Veolia water technologies
●	2001	Built, operates and maintains wastewater treatment works	eThekwin; WSA = eThekwin Water Services	Durban Water Recycling (Pty) Ltd.
●	? - Current	Operates and maintain wastewater treatment works for the generation of Biogas	Ekurhuleni MM (East Rand Water)	Barloworld Power
●	1999-2000	Project Management (Research Studies)	Durban MetroM	Vivendi Water
●	2011	Provides funding for water demand management activities	Emfuleni	Sasol New Energy and GIZ
●	2010-Current	Operates and maintains of desalination plan	Mossel Bay LM	Veolia water technologies
●	2005-2010	Built, operated and maintained an advanced pressure management installation to reduce revenue water losses	Emfuleni LM	WRP Pty Ltd

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

- = Municipal services
- = Municipal support activity

(3) South Africa has experience in establishing PPPs for funding water and wastewater infrastructure

Nature of the ppp*	Contract Period	Service Provided	Municipality	Private Partner
●	2003-2028	Capital investment in wastewater treatment and sale to industry for reduced tariff	Rustenburg LM	Rustenburg Infrastructure Trust Fund
●	? - Current	Funding for the construction of pipeline from dam	Mogalakwena LM; Town of Mokopane	Mining sector
●	? - Current	Capital Investment to extend Olifants river catchment area	Mogalakwena, Vhembe, Mopani and Waterberg	Aurecon Ndodana Joint Venture (ANJV)

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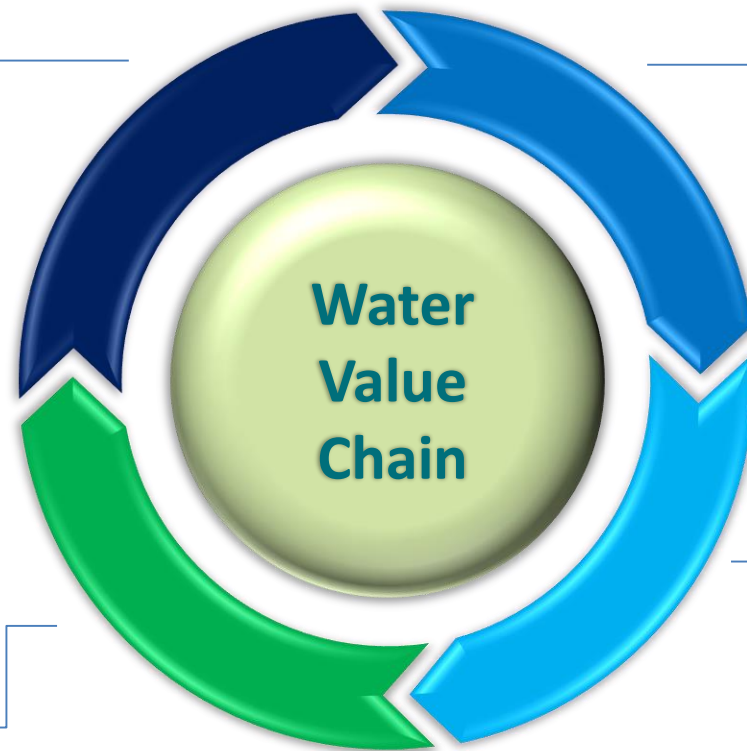
The Water Value Chain

Resource Development

- Desalination
- AMD
- Surface Water
- Groundwater
- Recycled Water
- Sea water for flushing

Waste Water

- Waste Water Treatment Works



Bulk Infrastructure

- Water Treatment Works
- Bulk Pipelines
- Waste Water Treatment works

Distribution & Reticulation

- Connector and internal networks

Phase 1

Resource Development

- Desalination
- AMD
- Surface Water
- Groundwater
- Recycled Water
- Sea water for flushing



BOT: New dams and bulk water pipes

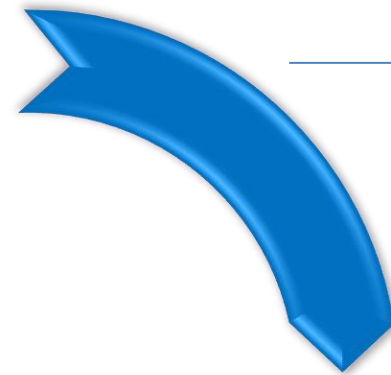
BOT: Desalination plants (limited to coastal areas for now)

BOT: Waste Water (water reuse)

BOT: Ground Water Extraction and aquifer recharger

BOT: Build-Operate-Transfer

Specific PPP Opportunities



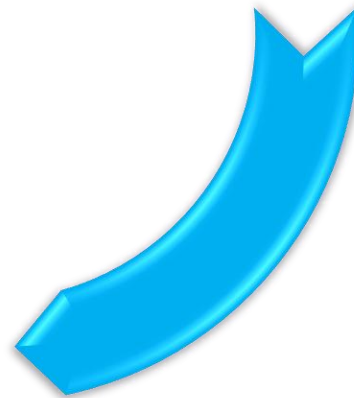
Bulk Infrastructure

Water Treatment
Works
Waste Water
Treatment Works

- BOT: Conventional Water Treatment
- O&M: Water Treatment Works (Richards Bay)

Specific PPP Opportunities

- O&M: Non-Revenue Water (Performance Based Contract)
- O&M: NRW reduction (physical losses only)
- BOT: Non-revenue Water (Emfuleni)



Distribution & Reticulation

Connector and internal networks both for potable and waster water

Specific PPP Opportunities

- O&M Contract (**Rustenburg**)
- O&M Contract (Water reuse) (**eThekweni**)
- BOT Contract

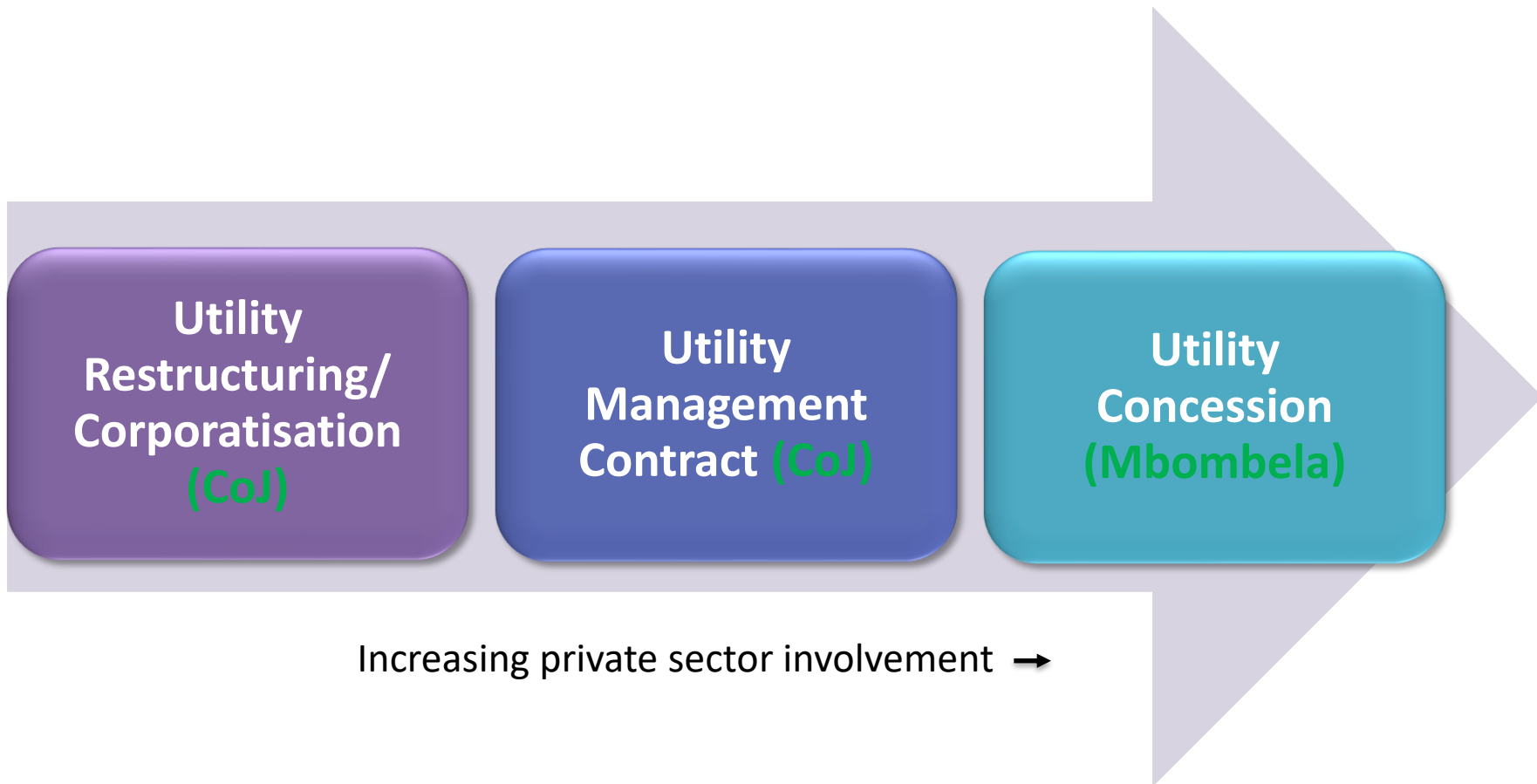
Waste Water

Waste Water
Treatment Works
and connecting
infrastructure

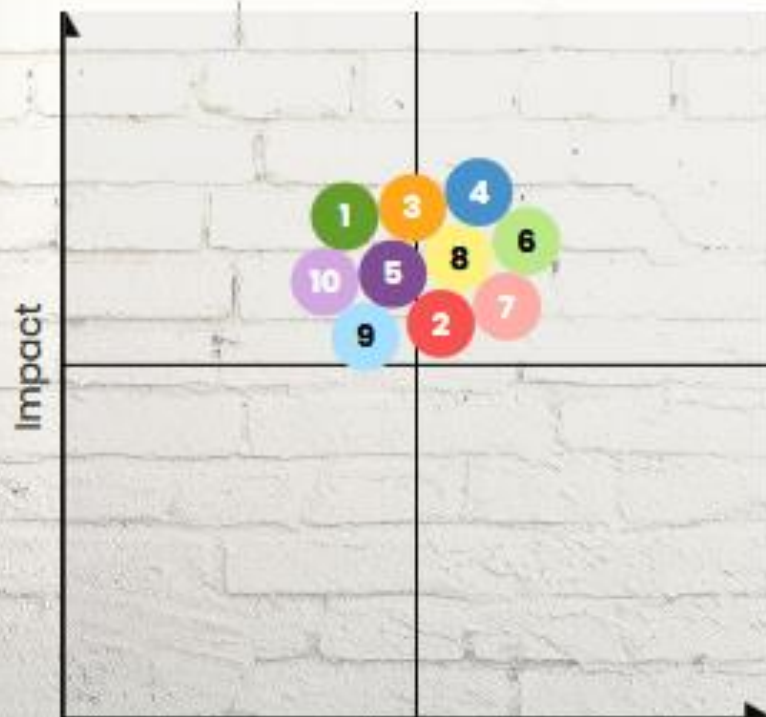
O&M: Operations & Maintenance



Utility Level PPPs



Opportunity Matrix



- 1 BOT: New dams and bulk water pipes
- 2 BOT: Desalination plants
- 3 BOT: Conventional Water Treatment
- 4 O&M Non-revenue water (Performance Based)
- 5 O&M NRW reduction (physical losses only)
- 6 BOT: Waste-Water (water reuse)
- 7 O&M Contract Waste Water
- 8 Utility Corporatisation
- 9 Utility Management Contract
- 10 Concession (Utility Level)



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Activate

For more information



Maanda Rashaka

Project Manager: Water, NBI

E: MaandaR@nbi.org.za

T: +27 11 544 6012

M: +27 60 558 8179

5th Floor, 61 Katherine Street, Dennehof, Sandton, 2196
PO Box 294, Auckland Park, Johannesburg 2006, South Africa
0861 123 624 (0861 123 NBI) | Tel: +27 11 544 6000 | Fax: +27 86 505 5678



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The NBI is a global network partner of the World Business Council for Sustainable Development (WBCSD) and an implementation partner of the CEO Water Mandate, We Mean Business and the CDP.

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