

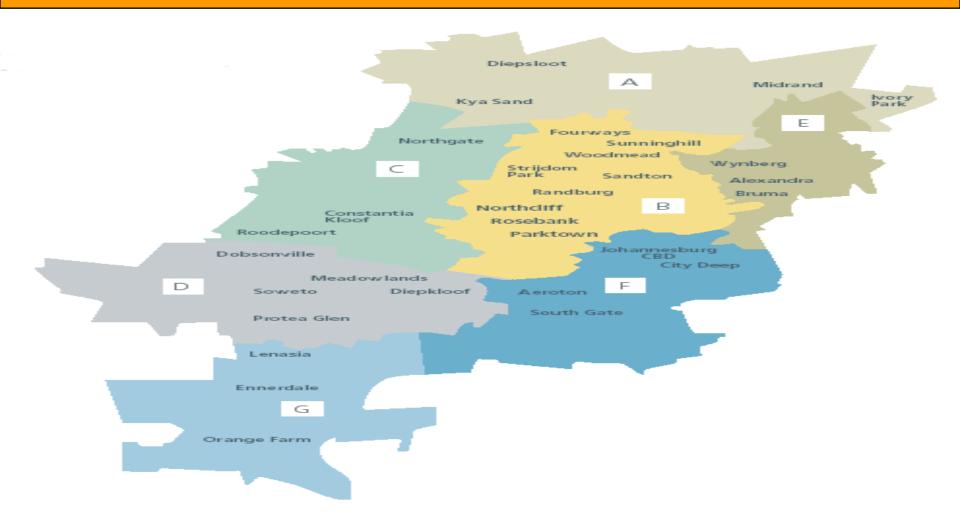


OPERATION GCIN'AMANZI (OGA) SOUTH AFRICAN REVENUE PROTECTION ASSOCIATION CONFERENCE 2008



HAPPY BIRTHDAY MADIBA

GEOGRAPHICAL AREAS



BILLING PROFILE

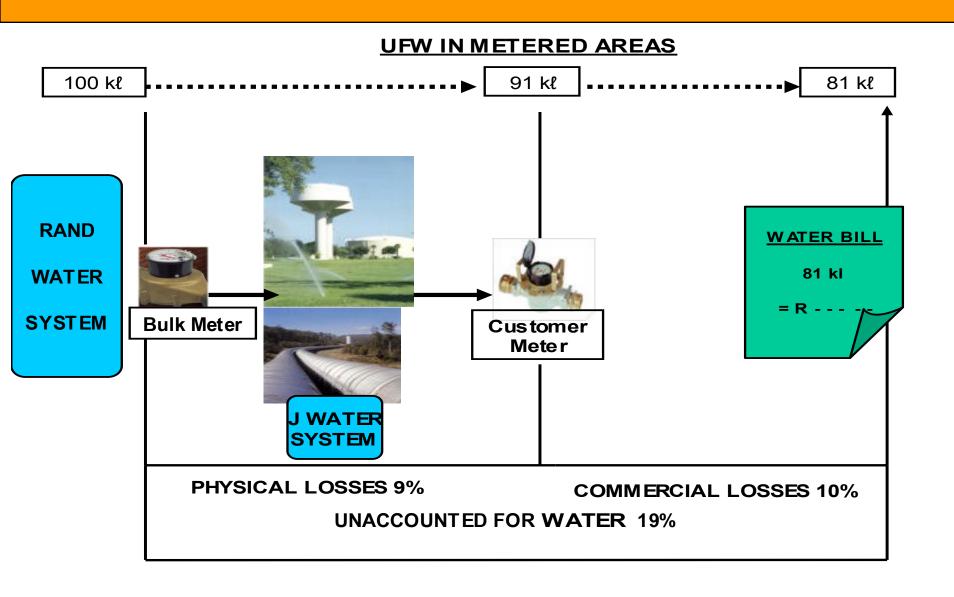
 Number of Townships/Suburbs 4,52 	22
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- Number of Registered Properties 752,500
- Number of metered properties 305,000
- Un-metered properties (deemed) 197,000
- Total prepaid properties in deemed 100,007
- Section Titles Units (Estimate) 150,000

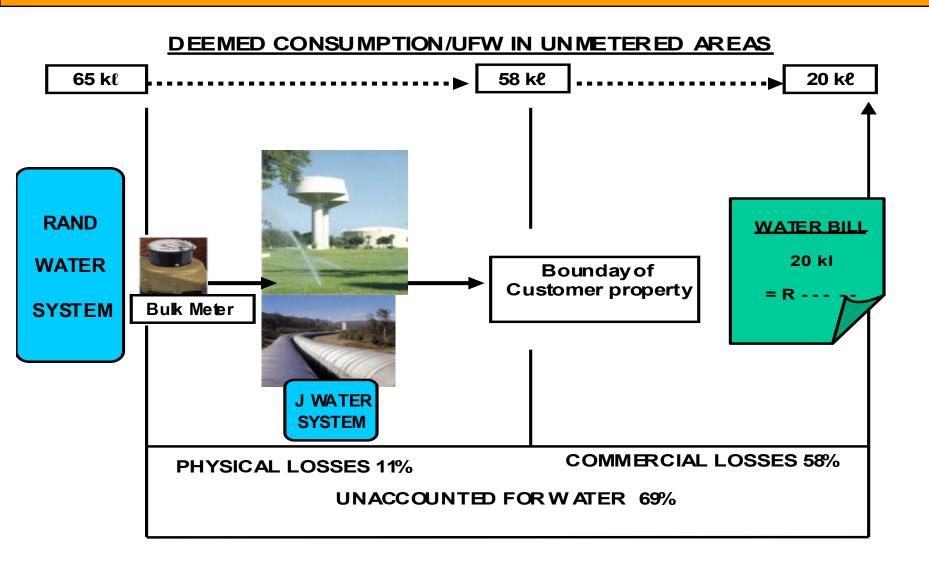
CUSTOMERS PROFILES

Socio Economic Profile	Population	Service	Payment
High/medium Income	±1 Million	Full service / metered	OK
Low income	±1 Million	Full service / not metered	LOW
Informal settlements	±1.2 Million	Basic or below basic	Free services

NON-REVENUE WATER



NON-REVENUE WATER



BACKGROUND TO SOWETO

- 30% of purchased water is supplied to deemed consumption areas (Soweto, Alex, Orange Farm)
- 90% of deemed volume is supplied to Soweto
- Soweto is approximately 100 years old
- Infrastructure over 50 years old Mild Steel
- Deemed consumption for water and sanitation is billed at 20Kl per/m/hh (flat rate) @ R 169 per/m/hh)
- 7 Million KI is lost monthly
- Equivalent monetary loss of R 21Million/month R250 Million/annum
- Hence, selection of SOWETO as a priority for the birth of OGA in August 2003

PROJECT OBJECTIVES

- Reducing unaccounted for water (UFW)
- Changing customers from deemed consumption to metered consumption
- Upgrading of water infrastructure
- Increasing awareness of water conservation

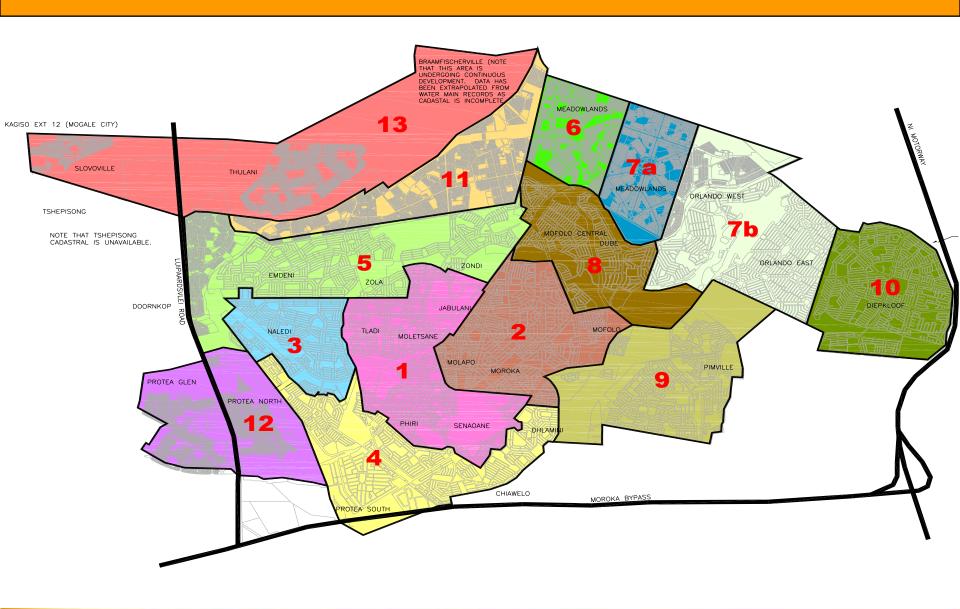
BENEFITS TO THE COMMUNITY

- Once-off repair of household plumbing fixtures, free of charge
- Ownership of consumption
- More affordable services and lowering of billed amounts
- Better, more consistent service delivery
- Eradicating future arrears amounts and Debt Write-Off Policy
- Reduction in credit control action
- Creation of employment opportunities
- Creation of vending opportunities through SMMEs
- Creation of regional economic efficiencies
- Creation of a customer relationship between JW and individual users rather than a one-way consumer relationship

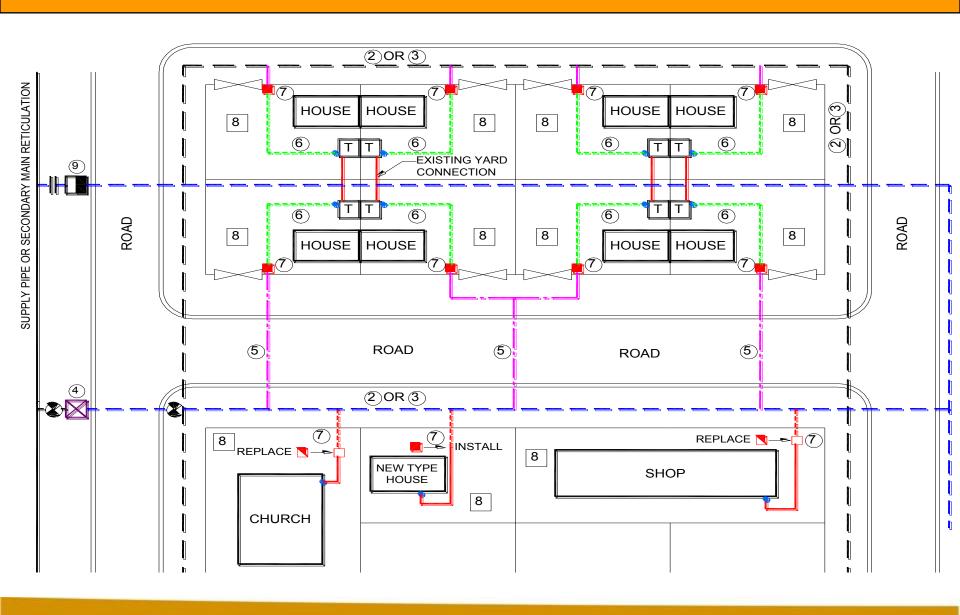
PUBLIC PARTICIPATION

- Ward Committee briefings and workshops
- Public Meetings
- Targeted sectoral information sessions held with sectoral stakeholders
- Consumer education workshops and study tours
- Door-to-door campaign
- Consumer information packs
- Establish and Capacitate Water Committee

GEOGRAPHICAL POSITION OF SOWETO



SCHEMATIC OF RETICULATION INTREVENTION



TOTAL INTERVENTION (ISD, TECHNICAL & PREPAYMENT)





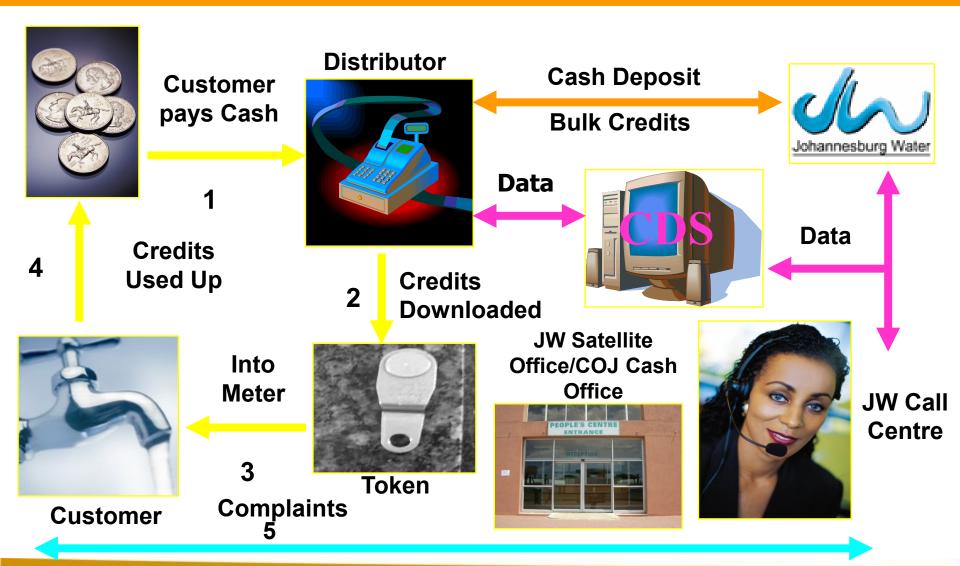








CURRENT PREPAYMENT PROCESS



TOTAL PREPAYMENT SYSTEM TYPE 1











TOTAL PREPAYMENT SYSTEM TYPE 2



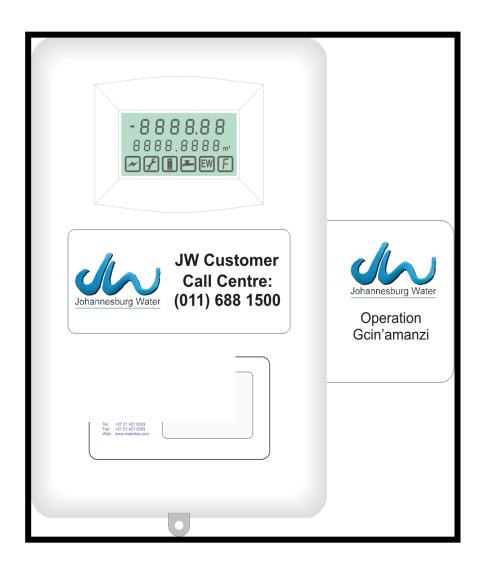


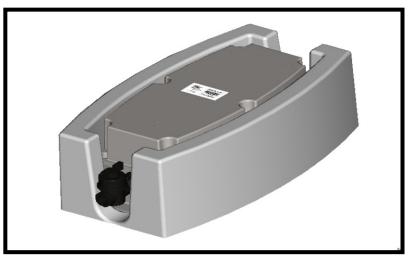






TOTAL PREPAYMENT SYSTEM TYPE 3







CUSTOMER RESPONSIVENESS

		Sept 0	8	Octobe	er 08	Nov	07	Dec	: 07	Jan	08	Feb	08	Mar	· 08
	0 - 60 minutes	1476	74%	2252	75%	2039	76%	1721	84%	2077	88%	2143	90%	1850	87%
	60 - 90 minute s	180	9%	287	10%	312	12%	173	8%	162	7%	157	7%	144	7%
OGA	90 - 120 minute s	236	12%	316	11%	136	5%	47	2%	40	2%	37	2%	37	2%
	120 mins - 24 hours	106	5%	139	5%	186	7%	84	4%	51	2%	40	2%	64	3%
	Greater than 24 hours		0%		0%	24	1%	12	1%	24	1%	11	0%	17	1%
	In progress		0%		0%	0	0%	0	0%	0	0%	1	0%	13	1%
	Total	1998		2994		2697		2037		2354		2389		2125	

PREPAYMENT CHALLENGES

- Free-Payment technology
 - SANS 1529-9 (Nov 2003) Strict Compliance...Dec 05 rev
 - STS enhancement or an urgent aligned alternative (CDS)
 - User-friendly meter technology for JW Customer
 - Stimulation of the prepayment market (limited meter suppliers)
- Affordability for the consumer Communication/Transfer of Ownership
- Vandalism, Tampering and Illegal Connections
- VENDING TECHNOLOGY, EQUIPMENT AND ACCESSIBILITY
- Customer Service Responsiveness and Complaints Handling
- Preventative maintenance programs and KPI Monitoring
- Proprietary prepayment systems Inter-operability

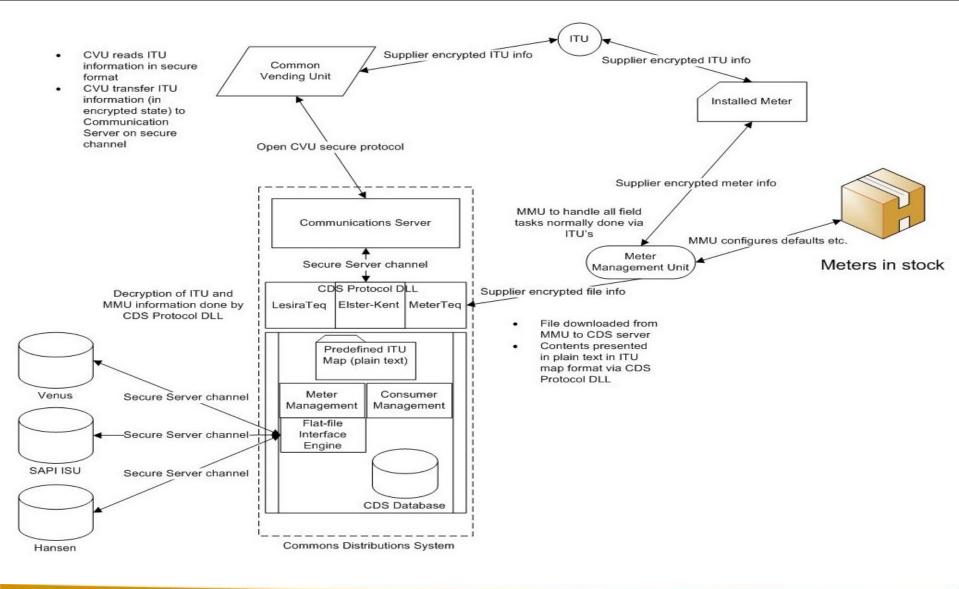
VANDALISM/ ILLEGALCONNECTIONS







COMMON DISTRIBUTION SYSTEM BUILDING TOWARDS CARLOS'S SYSTEM



CURRENT HIGHLIGHTS

Pre-intervention water consumption	66 KI per property per month
Post-intervention water consumption	12 KI per property per month
Percentage reduction in water consumption	81%
Percentage topping up (consuming less than FBW)	55%
Average cost of topping up	R 48.08
Pre-intervention deemed consumption billing amount	R 169.00
Total of Reduction in Bulk Purchase	81 Billion litres
to date (within 48 months w.e.f. July 2004)	R 239 Million
	*** D 20 Million

CURRENT HIGHLIGHTS

NON-REVENUE WATER	From more than 69% to 10%
METERS INSTALLED	98,775 out of a total of 169,989 (58% of total)
METERS INSTALLED in year to date (07/08)	23,500 out of a target of 50,000 (47% of target)
NO OF EMPLOYMENT OPPORTUNITIES	20,743 (Since project inception) 1,620 persons (current) 1,104,881 person-days
LOCAL ECONOMIC DEVELOPMENT	R112 Million
NO OF VENDORS @ 2.5km radii	COJ – 17 (CUSTOMER CENTERS) SMME LOCAL BUSINESS – 70
NO OF PLUMBERS	In excess of 1,700
Number of Secondary Mains Installed	116Km of 208Km
PROGRESS ON METER AGREEMENT SIGNAGE	147,657 of 169,989 (86%)

RETURN ON INVESTMENT

Estimated budget - R 1.2 Billion Current Expenditure -81 Billion litres R 239 Million R 30 Million

The IRR on the OGA Project is exceptional at 43%, (43 cents for every R1.00 spent on OGA has already been recovered) PAYBACK PERIOD OF 5 YEARS

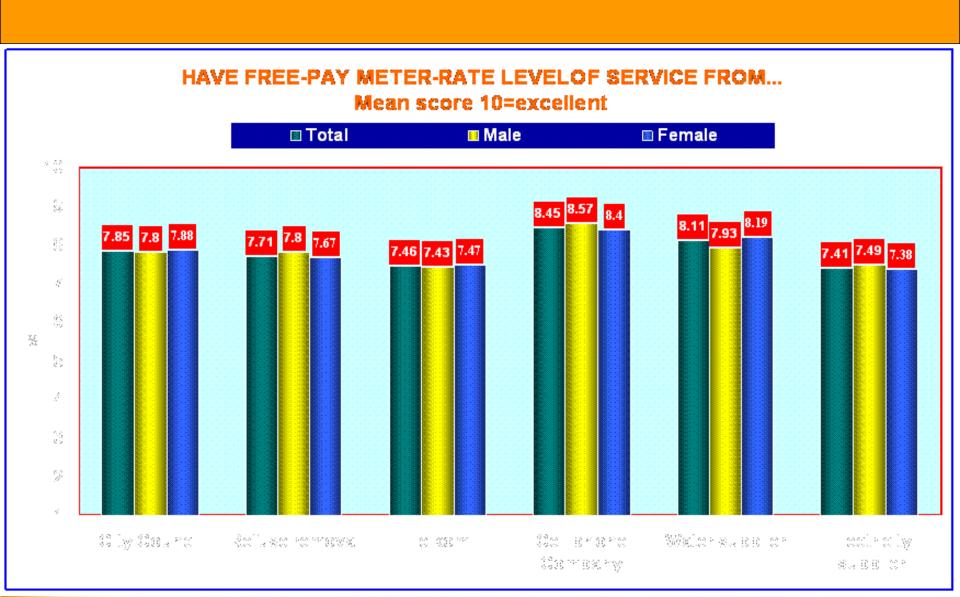
By doing a simplified calculation, the annual reduction in water purchases from Rand Water on completion of OGA can be easily calculated as reflected in the table below:

OGA Potential Savings on completion of project:		
Number of stands to be retrofitted	170,000	
Potential saving per stand per month (take conservative figure of 40 KI/month)	40	
The monthly projected savings for the entire Soweto = 170,00 x 40 Kl/stand/month	6,800,000	Total KI / m
Annual projected savings = 6,800,000 x 12	81,600,000	KI / annum
Rand value of water loss reductions at R3.0698/KI (water sales excluded)	R 250,495,680.00	per annum
Potential water sales on an annual basis	R 34,000,000.00	per annum
Projected annual revenue generated by OGA (provided certain sustainaboility procedures are implin	R 284,495,680.00	

METER REPLACEMENT PROGRAMME

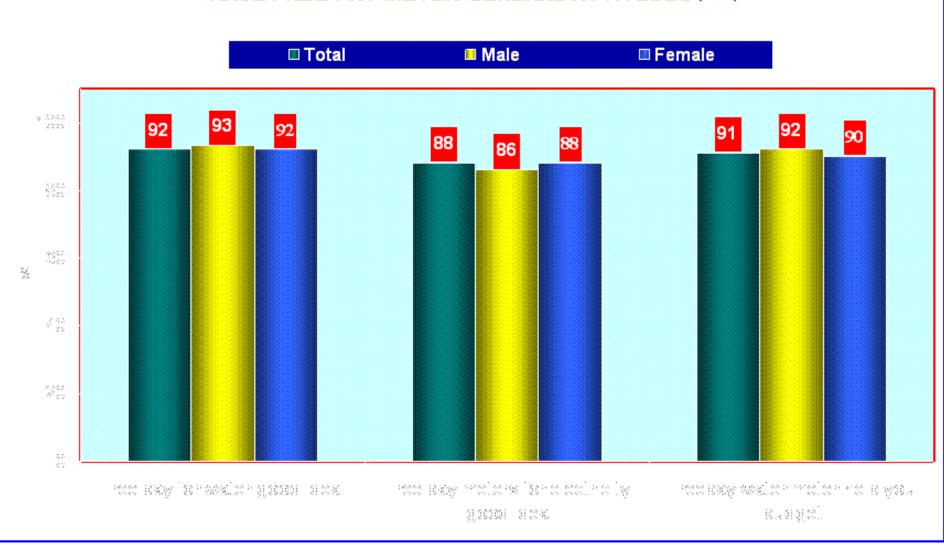
CAPITAL PAYBACK	03/04	04/05	05/06	06/07	07/08	08/09	09/2010	2010/ 2011	2011/ 2012	2012 /2013	2013/ 2014
No of meters installed at end of project			1698	98							
Payback period is 5 years from project completion											
Payback amount								1	50 M USD		
Payback amount per year								31 N	/I USD/annı	ım	
METER REPLACEMENT PAYBACK	14/15	15/16	16/17	17/18	2018/2019	9					
Payback amount per year	R 250 M	R 250 M	R 250 M	R 250 M	R 250 N	Л					
Payback amount to 2019			R 1.2 BII	LION							
Capital Cost for Maintenance 5 year battery replacement 10 year meter replacement		R 300 MILLION									
Payback period for meter replacement after payback period of Capital											
Profit on project after maintenance payback											
Total profit amount				R 900 M	ILLION						

CUSTOMER SATISFACTION



CUSTOMER SATISFACTION SURVEY





SOCIAL RELIEF MEASURES EMPLOYED SINCE JULY 2007 1. FREE BASIC SERVICES

Area	Total Indigents	Upgraded	% upgraded	To Be Upgraded
Phiri	683	635	93.0%	48
Super Block 1	4 122	3 104	75.3%	1 018
Super Block 2	2 514	1 676	66.7%	838
Super Block 3	1 598	970	60.7%	628
Super Block 4	2 012	1 618	80.4%	394
Super Block 5	5 301	3 767	71.1%	1 534
Super Block 6	1 425	1 130	79.3%	295
Super Block 7	1 875	1 001	53.4%	874
Super Block 8	1 876	1 292	68.9%	584
Super Block 12	136	63	46.3%	73
Super Block 13	2 268	1 193	52.6%	1 075
Other	2 348	2305	98%	
Total	26 158	18 754	72%	7 361

SOCIAL RELIEF MEASURES – 2. EMERGENCY WATER

Number of customers registered on Meter Management System	98 755
Total households that have access to E-Water (interim or permanent)	77 990 (79%)
Households still to be given access to E-Water	20 765

3. APPEALS MECHANISM

PREPAYMENT INSTALLATION

AREA	TOTAL NUMBER OF PROPERTIES	TOTAL NUMBER OF METERED PROPERTIES	AREA TYPE
ORANGE FARM	20 441	1 389 (7%)	DEEMED
SOWETO	169 989	98 755 (58%)	DEEMED
COSMO CITY	11500	4 500 (39%)	NEW
LEHAE	3 100	2 000 (50%)	NEW
PENNYVILLE	1 100	700 (18%)	NEW
PG EXT 16	3 500	708 (20%)	NEW
PG EXT 8	1 000	343 (34%)	NEW
TOTAL	210 630	112 895 (54%)	

OGA IN OTHER AREAS



OGA IN OTHER AREAS	5

R215,189,600

Ivory Park

86%

(1)

(0.5)

56%

5352 MI

(0.75)

No

(1)

TBD

(TBD)

(0.5)

(1)

4.75

2nd

(tenants)

Limited number

Limited number

R 8 991 360

Johannesburg

City

82%

(1)

(1)

30-40%

9055 MI

(0.5)

No

(1)

TBD

(TBD)

(0.5)

None

(1)

5

1st

Majority number

R 27 165 000

R98,960,653

Orange Farm

R31,148,798

99%

(1)

(0.0)

76%

(1) No

(1)

TBD

(TBD)

None

Limited number

(tenants)

(1)

(1)

5

1st

10404 MI

R 31 212 000

Inner

R385,223,857

OGA I	N OT	HER	AREAS

Eldorado Park

87%

(1)

(1)

22%

(0.0)

No

(1)

TBD

(TBD)

(0.5)

(1)

4.5

3rd

(tenants)

Limited number

Limited number

5544 MI

R 3 659 040

R167,408,804

R 897 931 712.00

\bigcirc	TLICD	
UGA	INCK	AREAS

Target area

Alexandra

92%

(1)

(0.75)62%

7800 MI

(1)

No

(1)

TBD

(TBD)

(0.5)

(0.5)

4.75

2nd

Alexandra

Limited number

Large numbers in Old

R 14 508 000

R 85 535 400.00

No.

1.

2.

3.

4.

5.

6.

7.

Weighting

Ranking

Criteria

Debtors days

Debtors amount

UFW per annum

Ease of meter reading

Level of acceptance

Multi-storey buildings

Informal settlements or

back yard shacks or erven encouragement

MAZIBUKO JUDGMENT

- Date of the hearing to the High Court was on 3rd, 4th and 5th December 2007
- The court ruling was provided on 30 April 2008 were a judgment was made against all three respondents (CoJ, JW and DWAF) on almost all accounts
- In essence the ruling can be summarized as follows:
 - The installation of prepayment water meters is unlawful and unconstitutional and is not covered adequately by the City Bylaws
 - The provision of 6000 liters of free basic water per household (25 liters/person for a family size of 8 residents) is not adequate and therefore the provision of 50 liters/per person per day must be made. There is no capping of the monthly volume indicated so it could imply that the allocation would be determined by the number of residents on a property.
 - Customers be provided an option of metering that entailed conventional meters and billing.
 - Prepayment is only confined to poor areas

CURRENT STATUS

- In light of the judgment, JW decided to suspend all meter installations in OGA on as from 6 May 2008,
- All other construction activities as from 7 May 2008.
- The CoJ and JW, after having studied the contents of the judgement
- The notice for leave to appeal was lodged on Friday 23 May 2007.
- A joint press statement by CoJ an JW was released
- Currently engaging in a comprehensive communication strategy in the next few weeks
- The appeal hearing is expected by Mid August 2008

AWARDS

- 1. 2004 COJ INNOVATION AWARD
- 2. 2005 SUEZ GROUP INTERNATIONAL PROJECT MANAGEMENT AWARD
- 3. 2006 ESKOM INNOVATION AWARD AT AUW FOR TECHNOLOGY
- 4. 2007 DWAF SECTOR AWARDS FOR WATER DEMAND MANAGEMENT
- 2008 NATIONAL EPWP KAMOSO 2008 AWARD
 FOR BEST INFRASTRUCUTE PROJECT



THANKS TO SARPA



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Providing water. Providing Life



THANKS TO CITY OF TSHWANE



