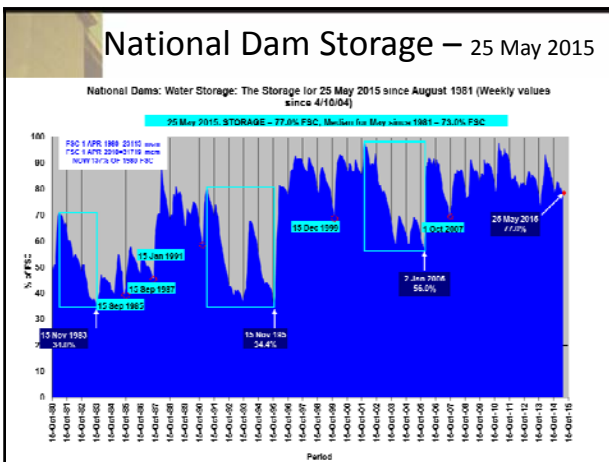


CONTENTS

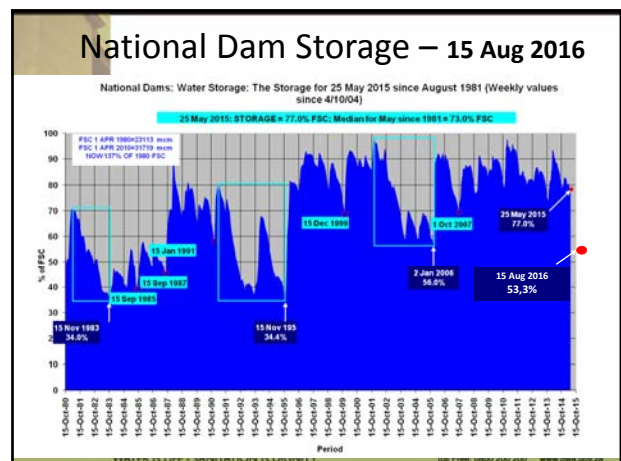
- Background
- No Drop
 - Programme overview
 - National first order assessment results
 - Metro full No Drop audit results
- DWS Annual Performance Plan
 - Percentage reduction of projected demand in eight large water supply systems
- Conclusions



Summary Water Supply Systems (% Full) As on 15 August 2016

Summary Water Supply Systems	Full Supply Capacity 10 ⁶ M ³	Water in Storage 10 ⁶ M ³	Last Year %Full	Last Week %Full	This Week %Full
AL Algoa	281.6	205.2	87.7	73.1	72.9
AM Amathole	240.8	198.8	101.1	82.9	82.5
BF Bloemfontein	222.7	81.7	33.6	36.0	36.7
CT Cape Town	889.3	506.1	71.6	55.4	56.9
CW Crocodile West	450.0	428.3	92.8	95.3	95.2
IV IVRS	10564.9	5729.9	75.8	54.6	54.2
KP Klipplaat	57.1	48.7	100.3	85.6	85.3
LV Luvuvhu	224.8	126.3	86.5	57.0	56.2
PK Polokwane	254.3	93.1	78.0	37.4	36.6
UM Umgeni	923.4	435.0	73.9	47.8	47.1

Provincial Summary	Full Supply Capacity (Million Cubic Metres)	Water in Storage (Million Cubic Metres)	Last Year (%Full)	Last Week(08/08/2016) (%Full)	This Week(15/08/2016) (%Full)
Eastern Cape	1832.6	1213.5	79.1	66.5	66.2
Free State	15971.2	8792.7	76.1	54.8	55.1
Gauteng	114.8	96.8	88.3	84.8	84.3
Kwazulu-Natal	4668.7	2093.6	64.2	45.4	44.8
Lesotho	2376.2	955.8	64.4	40.9	40.2
Limpopo	1508.1	781	78.5	52.4	51.8
Mpumalanga	2538.8	1418.4	79.1	56.4	55.9
Northern Cape	145.5	95.5	80.9	66.7	65.6
North West	886.7	578	63	65.4	65.2
Swaziland	333.8	70.1	71.5	21.5	21
Western Cape	1870.4	1084.2	66.4	56.8	58
GRAND TOTAL	32246.7	17179.7	73.2	53.3	53.3



STAFSIKORISANT, 12 AUGUSTUS 2016 NO. 40203 23

DEPARTMENT OF WATER AND SANITATION 12 AUGUST 2016

NO. 910 INTEGRATED VAAL RIVER SYSTEM - LIMITING THE USE OF WATER IN TERMS OF ITEM 6 OF SCHEDULE 3 OF THE NATIONAL WATER ACT OF 1998 FOR URBAN AND IRRIGATION PURPOSES IN THE CATCHMENT AREAS OF THE DAMS SUPPLYING THE INTEGRATED VAAL RIVER SYSTEM AND FROM THE SYSTEM

I, Sifiso Mkhize, in my capacity as Acting Director-General of the Department of Water and Sanitation, on reasonable grounds, believe that a water shortage may exist over the Integrated Vaal River System (IVRS) including other areas within of Thukela sub-system, Usutu sub-system, Inkomati, Epeyohpe, Zambesi catchment areas due to insufficient rains and that it is necessary to limit the taking of water that feeds the major dams and is taken from the Integrated Vaal River System.

The Minister of Water and Sanitation may in terms of item 6 (1) of Schedule 3 of the National Water Act of 1998 (Act 36 of 1998) (The Act) limit the use of water in the area concerned if the Minister on reasonable grounds believes that a water shortage exists within the area concerned. This power has been delegated to me in terms of section 55 (1) (b) of the Act.

1.15% of curtailment on urban water use in the aforementioned areas.
2.20% of curtailment on irrigation water use in the aforementioned areas.
3.The limitation applies from the date of this notice until further notice.

Placing limitation on the taking of water use as set out in this notice is an administrative action affecting the rights of the public as contemplated in section 4 of the Promotion of Administrative Justice Act 3 of 2000 (PAJA). After I have taken into consideration all relevant factors, including those referred in section 4 (a) (b), I have decided that it is reasonable and justifiable in the circumstances to proceed from the requirements referred in section 4 (1) (a) to (c), (2) and (3) and restrict the irrigation without affecting the water users affected and other role players to comment on the matter before I institute the limitation.

This notice overrides any other previous authorisation on water restrictions issued by the Department relating to this area.

Sifiso Mkhize
 ACTING DIRECTOR-GENERAL
 DATE: 14 | 7 | 2016

Objectives of No Drop certification

- To change **behaviour** towards **improved** water use and water demand management by municipalities
- To **reduce water loss** and increase water use efficiency
- To use **credible** data to report against defined **targets**
- To **benchmark** within defined municipal- and performance clusters and/or contribute to sector-wide benchmarking initiatives

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Incentive-based regulation

BLUE DROP		NO DROP		GREEN DROP	
1	WSP	1	Strategy, planning & implementation	1	W_RAP
2	Asset management	2	Asset management	2	Asset management
3	Technical skills	3	Technical skills	3	Technical skills
4	Credibility and accountability	4	Credibility and accountability	4	Credibility and accountability
5	Compliance	5	Compliance & Performance	5	Compliance
		6	Local regulation	6	Local regulation
		7	Customer care		

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No Drop certification reports

- **First order assessment** of the status of water loss, water use efficiency and non-revenue water in **municipalities (2012/13)**
- **Full No Drop Audit** of the status of water losses and water use efficiency in **metropolitan municipalities (2012/13)**
- **Update of the State of NRW in SA (2012)** - Benchmarking of Water Loss, Water Use Efficiency and Non-revenue Water in South African Municipalities (2004/05 to 2012/13)

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2014 NO DROP REPORT

First Order Assessment
 the status of water loss, water use efficiency and non-revenue water in MUNICIPALITIES

First order assessment of the Status of water loss, water use efficiency and non-revenue water in municipalities (2012/13)

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Objectives

The purpose of the **First Order No Drop Assessment Report 2014** is to provide an **overview of the status of municipalities** as pertaining to their water losses, non-revenue water and water use efficiency, based on the 2012/13 financial year.

Raise awareness and **introduce the assessment criteria.**

The results are based on the findings of a No Drop assessment which formed part (3%) of the 2014 Blue Drop Assessment, which was undertaken at all municipalities in South Africa.

The No Drop component focussed on 3 KPAs namely: water balance (30%), strategy and planning (30%), and performance and compliance (40%).

The first order No Drop assessment **is not a certification process**, but serve to **measure a municipality's knowledge of its status.**

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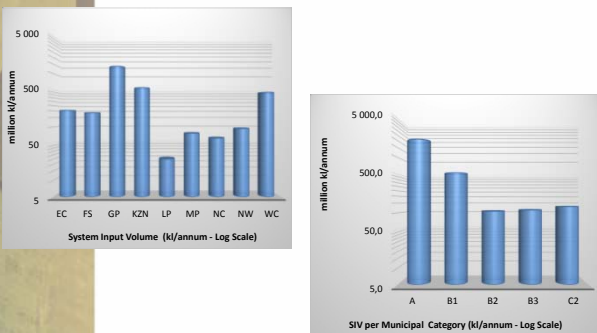
National Overview

- No Drop as Crit-6 of Blue Drop Audit
 - 3% = 3 sub-criteria
- 152 WSA participated
 - 949 supply systems assessed
- 32 580 710 population and 9 043 534 households
- 121 449 km and 5 382 613 connections
 - average 44 conn/km pipeline
 - 87.6% metered
- 45 m average system pressure, ranging from 36 to 52m
- 71 (47%) good data sets /152
- 51% have proper/partial WCDM plans and strategies
- 62% of Plans not in IDP

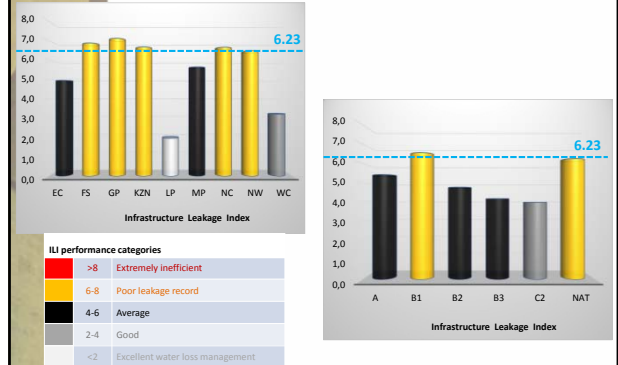
Findings

- 30% of the water supply systems obtained >50% ND score
- 70% attained <50%
- WC, GP, KZN, EC and FS >50%
- Remainder <31%
- National average (weighted) No Drop = 56.5%
 - Influenced by lower ND scores of NW, MP, NC and LP.

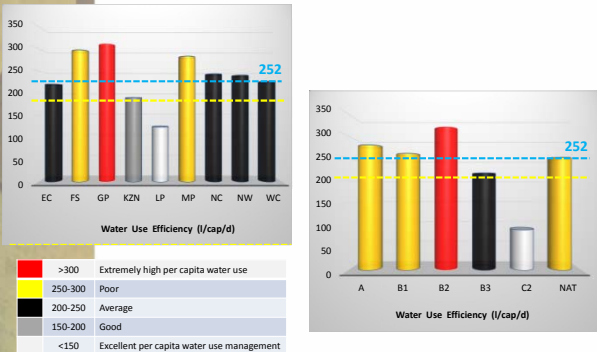
System Input Volume (kl/a)



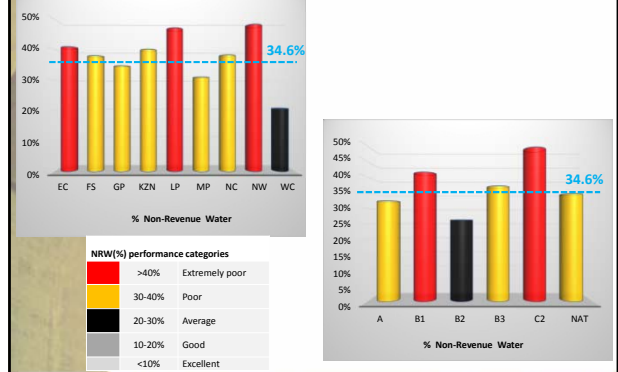
Physical water loss (ILI)

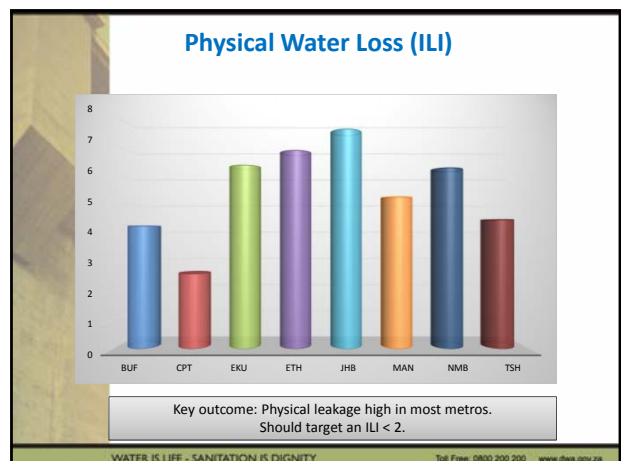
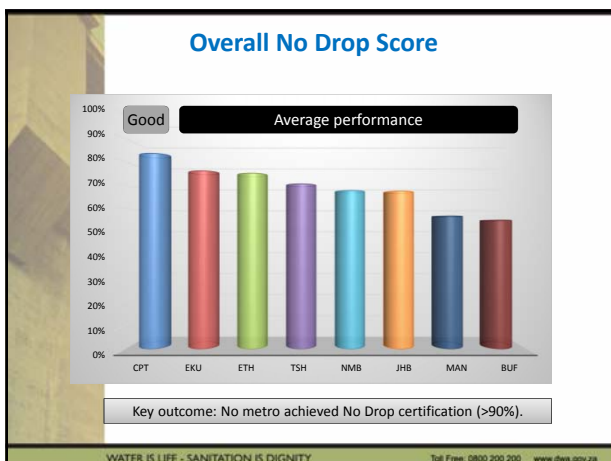
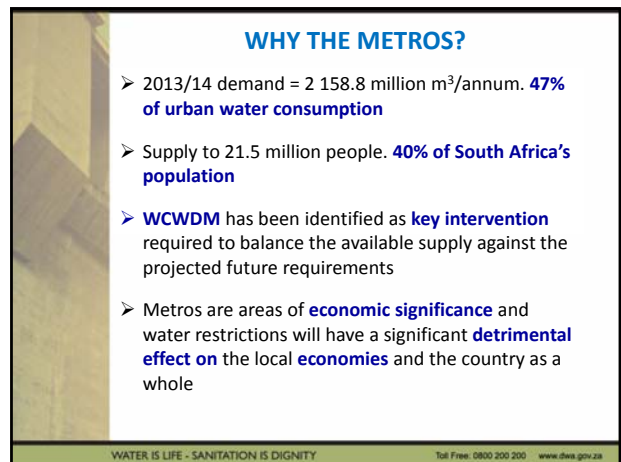
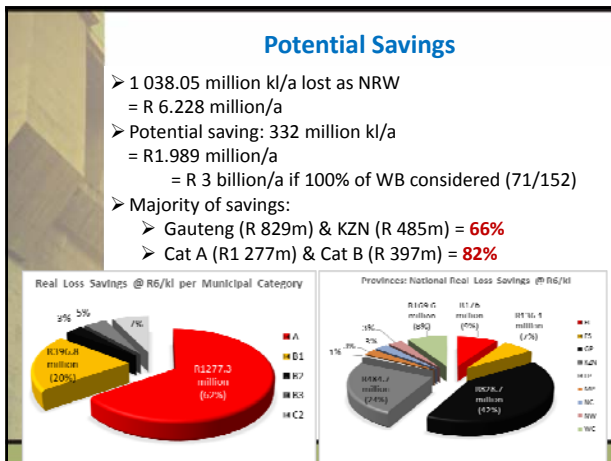


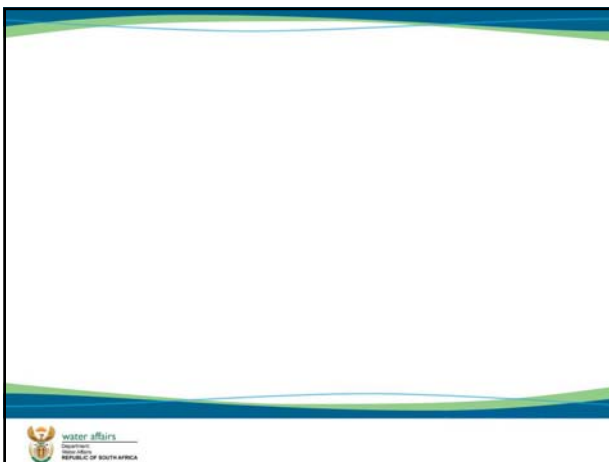
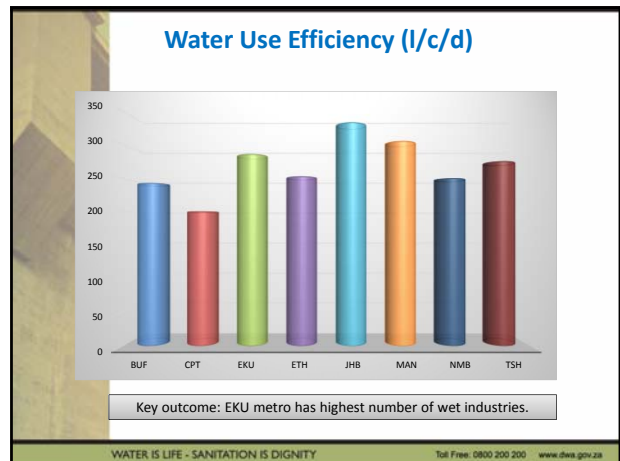
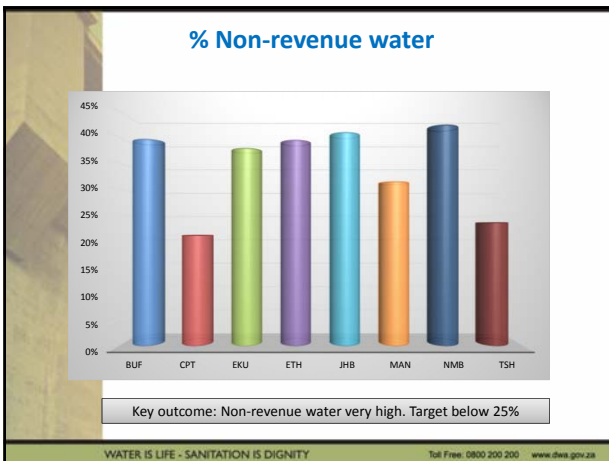
Water Use Efficiency (l/cap/d)



Non-revenue water (NRW)








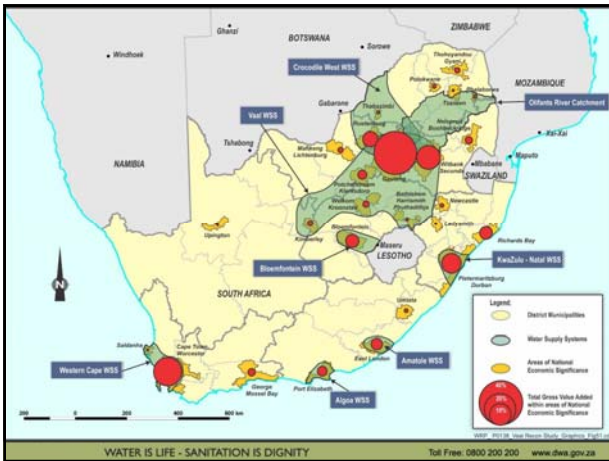
- ### Conclusions
- Metros have not adopted the recon targets
 - Licence conditions not cascaded down
 - Scope to improve asset management and analysis of system management information
 - Skills and capacity a major risk
 - Water balance data credibility can improve
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- ### Conclusions...
- Use of certain KPIs needs review
 - Policies and bylaws must be enforced
 - Increased scope for community awareness
 - Increased revenue water and reduced water losses could increase municipal income by R 2.0 billion
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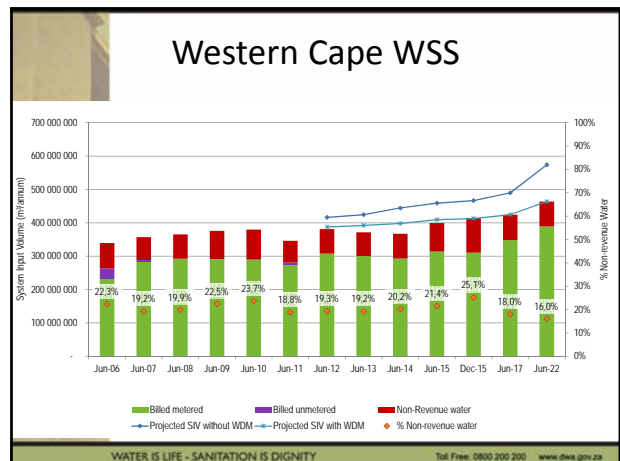
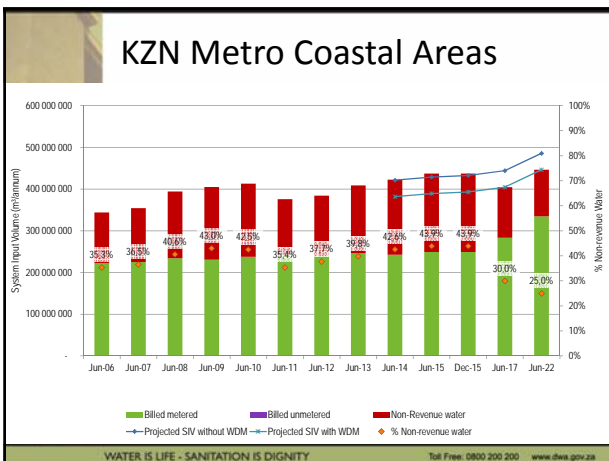
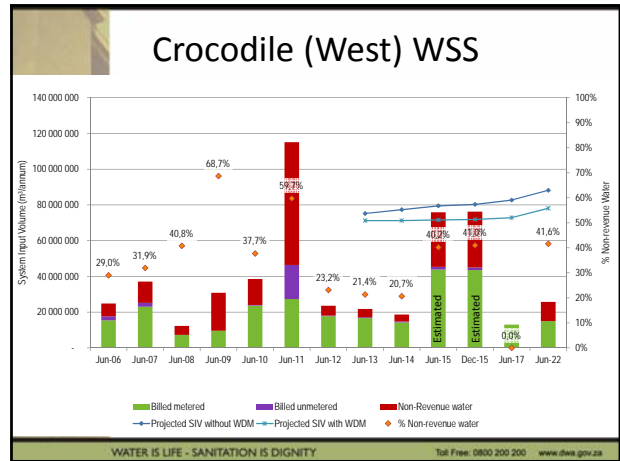
Percentage reduction of projected demand in eight large water supply systems

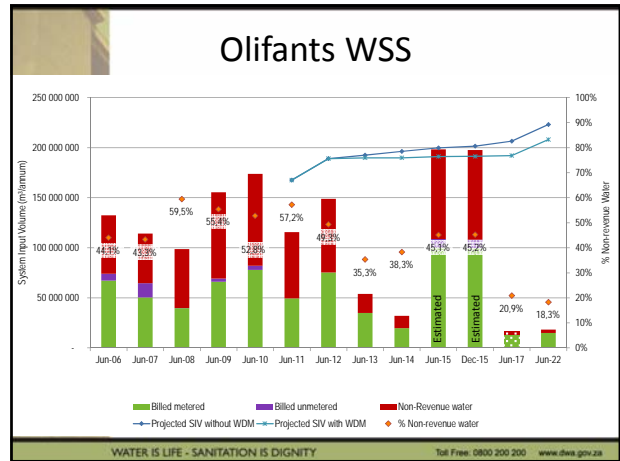
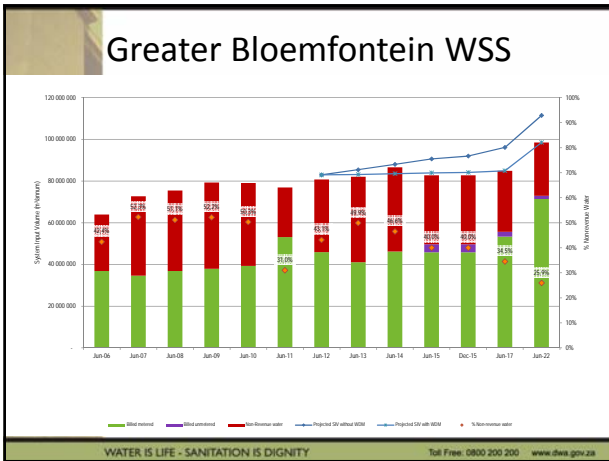
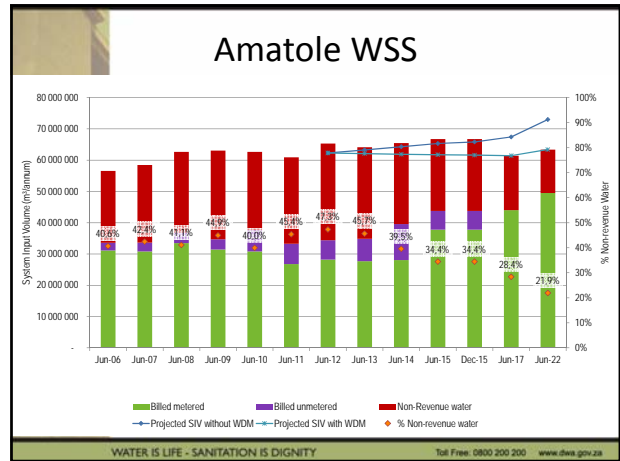
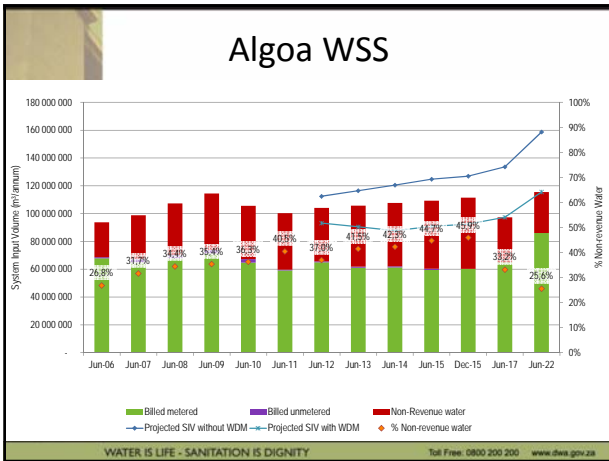
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- ### Eight large water supply systems
- Integrated Vaal River WSS,
 - Crocodile (West) River WSS
 - KwaZulu-Natal Coastal Metropolitan WSS
 - Western Cape WSS
 - Algoa WSS
 - Amatole WSS
 - Greater Bloemfontein WSS
 - Olifants River WSS

- ### Objectives
- Measure the progress made with the implementation of WCWDM in 67 municipalities, within the eight large water supply systems (WSS)
 - Results based on data submitted by municipalities
 - Monitoring and reporting are very difficult if municipalities do not calculate and/or submit their water balance information





Projected vs Actual Savings (Dec 2015)

System	Projected SIV without WDM (X) kl/annum	Projected SIV with WDM (Z) kl/annum	Projected % savings (X - Z) / X * 100	Actual demand (Y) kl/annum	Actual % savings (X - Y) / X * 100
JVRS	1 388 841 060	1 261 797 859	9.1%	1 420 101 889	-2.3%
CWRWSS	80 260 946	71 883 807	10.4%	76 248 811	5.0%
KZNCMWSS	432 651 695	393 151 695	9.1%	428 016 946	1.1%
WCWSS	466 546 753	413 000 426	11.5%	414 764 474	11.1%
AWSS	126 931 036	92 443 835	27.2%	111 545 863	12.1%
AmWSS	65 840 335	61 640 335	6.4%	66 726 052	-1.3%
GBWSS	92 003 950	84 163 950	8.5%	82 772 378	10.0%
ORWSS	201 531 791	191 391 627	5.0%	197 659 160	1.9%
Total	2 854 607 565	2 569 473 533	10.0%	2 797 835 573	2.0%

- ### Recommendations (1)
- Maintenance of the recon studies must continue
 - Municipalities must increase their efforts to achieve the targets
 - Municipalities are not implementing the strategies or expect funding from DWS
 - Planning and budgeting not done or protracted
 - Ongoing monitoring and reporting essential and should become more self regulatory
 - Municipalities should reduce their NRW and increase revenue water to fund initiatives

Recommendations (2)

- Greater community awareness and involvement are required
- DWS Regional offices must increase their capacity to support and monitor the implementation of WCWDM in municipalities
- The recommendation of No Drop, NWRS2 and NDP must be implemented
- Close collaboration and support is required from other Department incl. NT, SALGA, CoGTA, AGSA, Premier's office

THANK YOU