



## ***Ugu District Municipality***

# Water Conservation and Water Demand Management Initiatives

Presentation to Strategy Steering Committee – Meeting 8  
09 September 2015

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# Vision and Mission Statement

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## **Vision**

**A place where everyone benefits equally from socio-economic opportunities and services**

## **Mission**

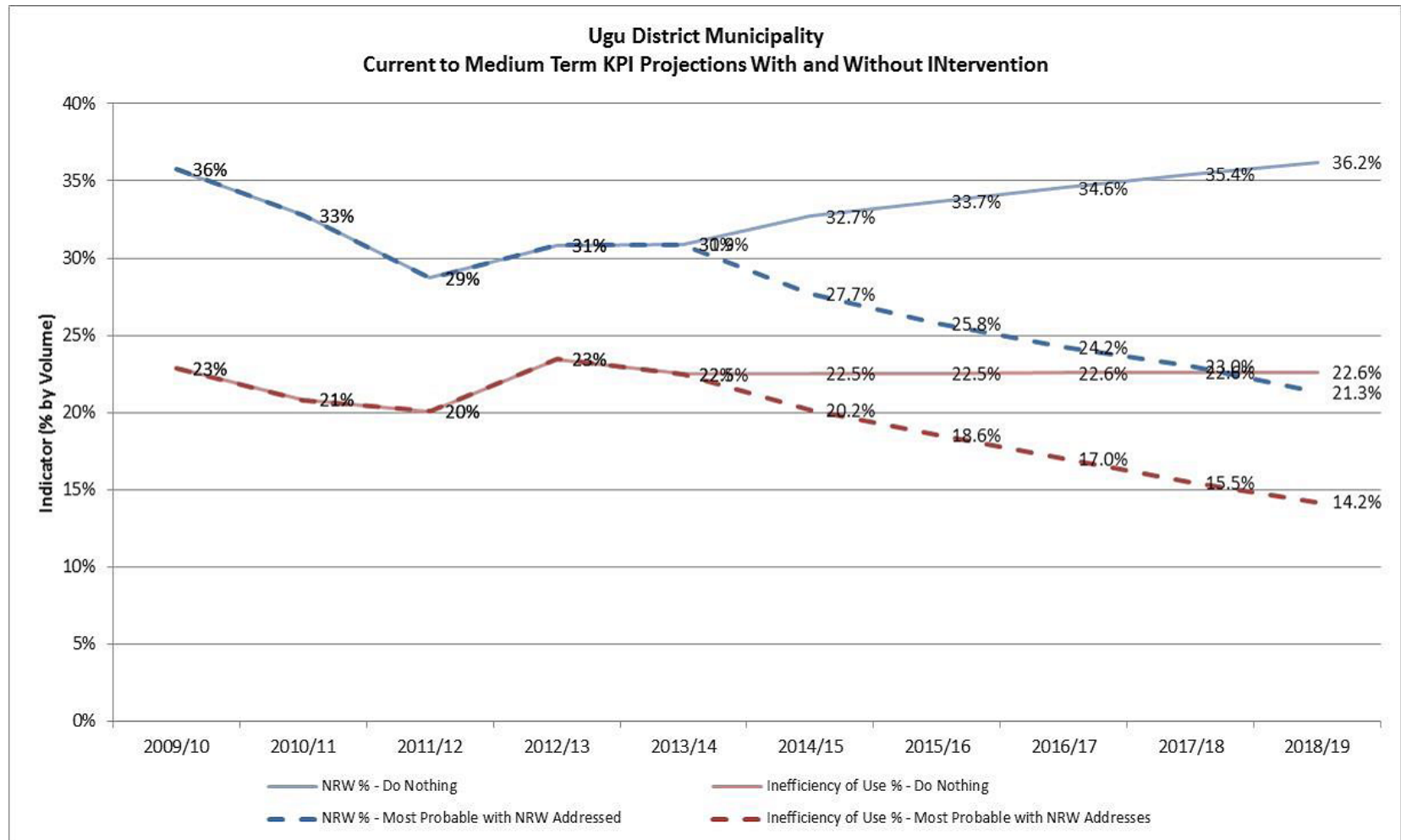
**To create an enabling environment for social and economic development resulting in the provision of quality drinking water and access to decent sanitation by ensuring community participation and coordination of public and private players**

# Background

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- ▶ 2008/2013 interventions reduced NRW by volume from 36.9% to 30.9 %
- ▶ The Infrastructure Leakage Index was reduced from 5.1 to 4.67
- ▶ The Inefficiency of Use was also reduced from 26.30% to 22.5 %
- ▶ The following gaps were identified in the programme :
  - Lack of education and training of personnel
  - Inadequate awareness by the stakeholders and community
  - Aging infrastructure

# 2014/2019 Strategy Plan



# Implementation Plan to the Strategy

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- Active Leakage Control through specialized leak detection and repairs
- DMAs monitoring tools
- On-going maintenance of DMAs
- Enforcement of By-Laws to deal with Illegal Connections
- Water Conservation Campaigns for Community Awareness
- Capacity Building
- Wastewater Metering to achieve reliable water balancing
- Intelligent bulk meter and DMA data acquisition
- Pressure Management and Advanced Pressure Management
- War on Leaks
- Meter Replacement and billing improvement
- Standpipe and Tanker point metering strategies

# Work Done to date

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- ▶ Identification and repairing of internal leaks
- ▶ Pressure Management
- ▶ System Monitoring by metering critical points in different systems
- ▶ System Stabilisation by logging critical points in different systems
- ▶ Water Savings Campaigns
- ▶ Leak Detection and repair on bulk mains
- ▶ Commissioning of online loggers
- ▶ Replacement of Meters
- ▶ Standpipe Clustering and Metering

# Achievements to date

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- ▶ Reduction in leakage levels and water demand
- ▶ Optimisation of the systems which resulted in system stabilisation
- ▶ Improved system knowledge
- ▶ System Input Volumes (SIV) reduction
- ▶ In Harding water system the SIV was reduced from 2.2MI/day to 1.1 MI/day
- ▶ Currently the NRW for the whole district is 26.9%



## C) Reservoir outlets bulk meters installation

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4. Completed incl chamber  
5. Exposed, awaiting installation  
6. Issues with Eskom, Ops to as  
7. **Completed incl chamber**  
8. Ready for installation  
9. **Completed incl chamber**  
10. On field work stages  
11. On field work stages  
12. On field work stages
- Amahlongwa Res  
580 m³/day - installed  
3  
4  
Res B  
installed  
Res C  
Res D  
Res E  
Umzinto Hts Res  
St Patricks PS  
10  
Gqayinyanga Res  
2  
Hazelwood Res  
Amandawe Res A  
900 m³/day  
1  
Amandawe Res B  
installed  
Nkonka Res  
5  
exposed  
6  
Park Rynie Res  
Umzinto WTW  
1,8 ml/day installed  
+/- 9 500 m³/day  
7  
8  
Malangeni PS  
Malangeni Res  
Pennington  
Shayamoya  
Ifafa Res  
District Municipality  
Scott South  
230 m³/day installed  
9  
11  
12





# KUPHUKA PRIMARY SCHOOL KAMAGWAZA, MALANGENI





# EMALANGENI RESISTANCE

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# THE COMMUNITY WANTS TO REGULARIZE THEIR ILLEGAL CONNECTIONS



# Questions and Discussions

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