



## ***Ugu District Municipality***

# Water Conservation and Water Demand Management Initiatives

Presentation to Strategy Steering Committee – Meeting 7  
25 February 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

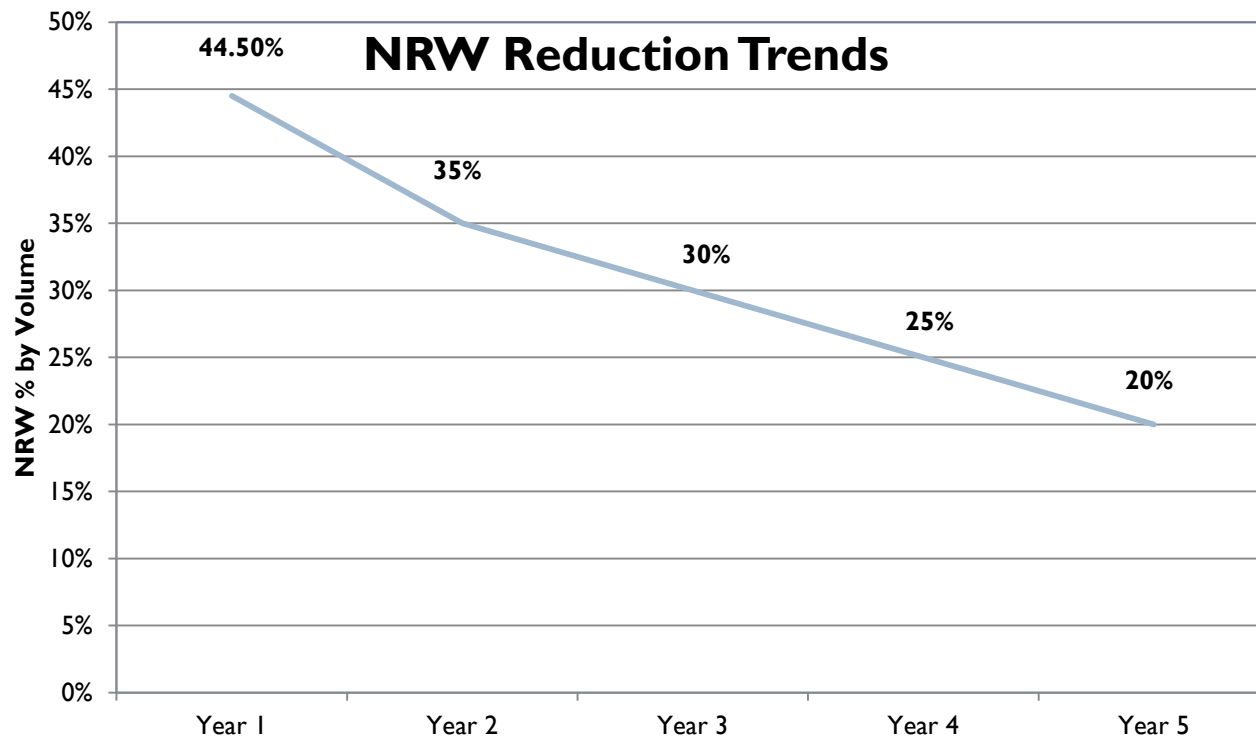
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- Baseline Report prepared in June 2007
- In accordance with international best practice
- Prepared baseline water balance and KPI's
- Identified prioritised water loss reduction strategy (real/physical losses and apparent losses)
- Provided cost/benefit analyses
- Identified possible improvements in billed consumption
- Then, Master plan was compiled and adopted in 2008.

# 2008/2013 Strategy Plan

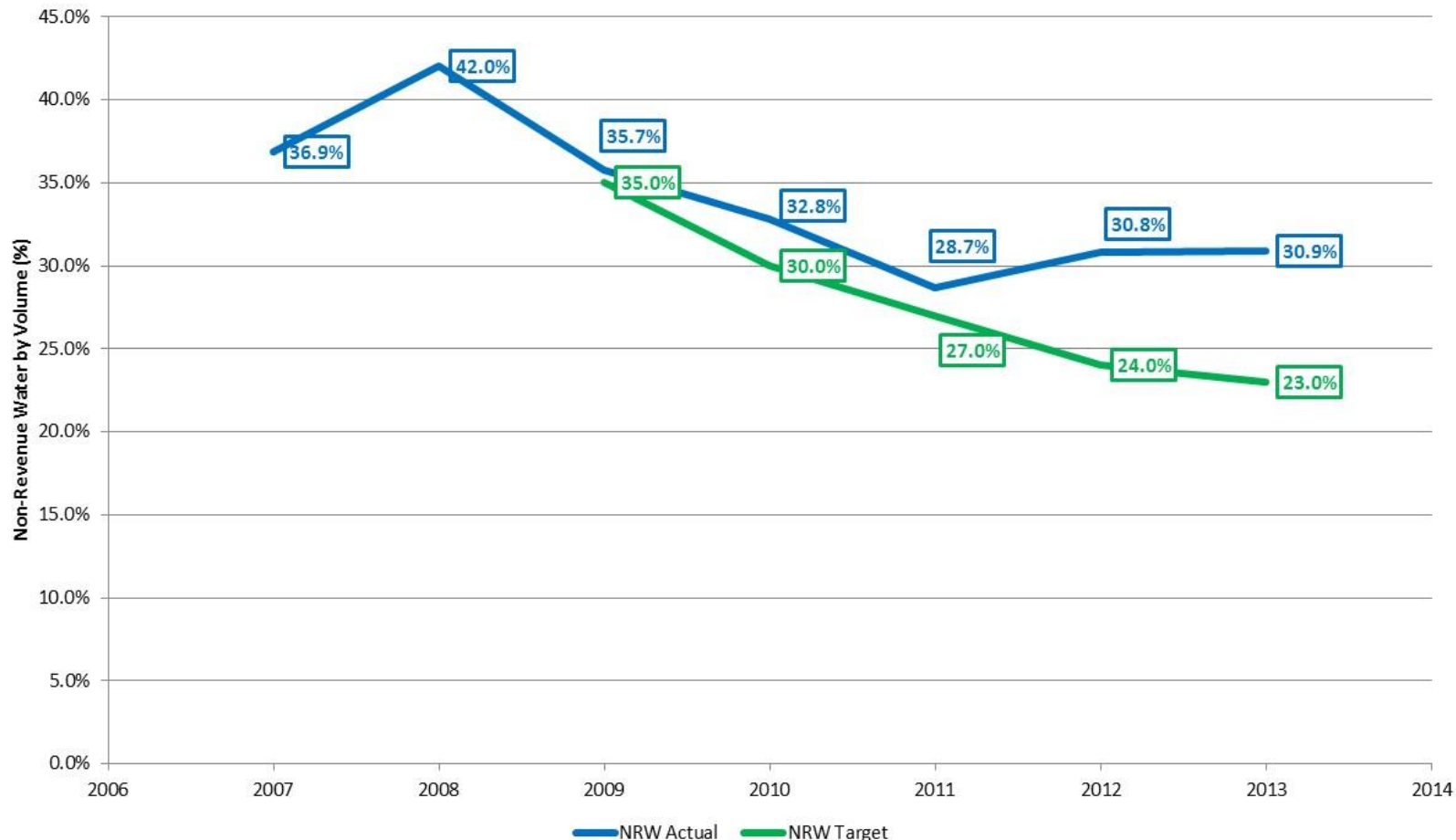
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NB: dependant on budget



# Implementation of the 2008/2013 Strategy Plan

**Ugu District Municipality**  
**NRW Reduction Programme - Financial Year Target and Actual KPI's**



# Implementation of the Strategy Plan

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- Total of 152 PRV station installed across four systems.
- Pressure reduced from 80m to average 50m.
- Leak detection and repair-1200km surveyed and leaks repaired.
- Establishment of DMAs-47 DMAs created.
- Construction of Leak detection Training and Testing Rig.
- Installation of on-line loggers for meter reading at mostly outlying water treatment works
- Consumer meter replacement – approximately 3 000.
- Tracking of annual key KPI's for NRW

# Achievements

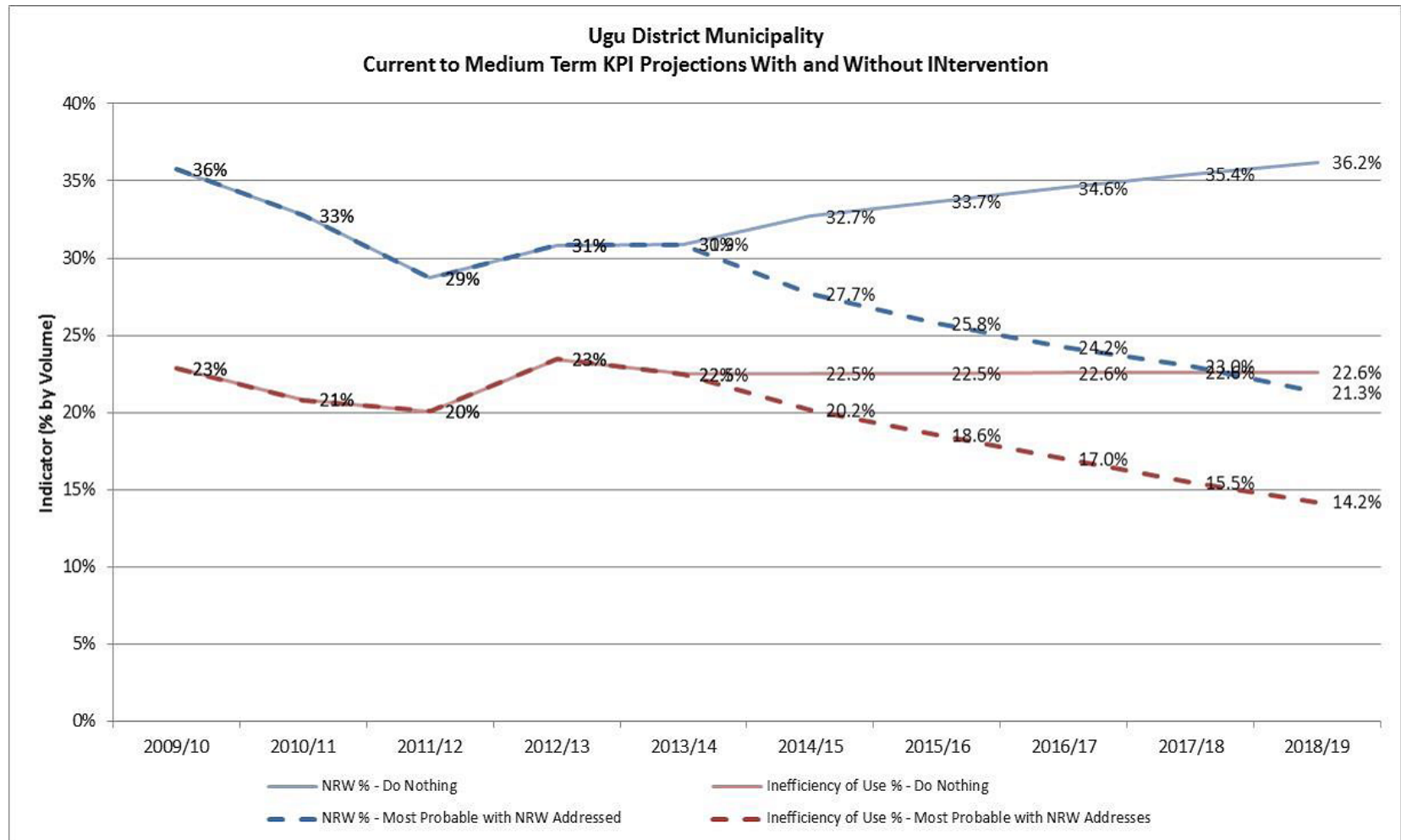
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- Number of registered consumers increased by an average of 703 annually.
- Daily productions increased by 5.275ML/day(More water available for consumption) annually.
- Average daily sales increased by 3.588 ML/day annually
- Total Water Losses per Connection deteriorated by 38 litres/connection/day annually.
- Unbilled Authorised Consumption decreased by an average of 597 kl/day annually.

# Lessons Learnt and Improvement Plans

Lesson Learnt	Improvement Plans
Project was not fully effective due to isolated implementation	Integrate WC/WDM initiatives with O&M
O&M personnel interference on the interventions(breaching of systems)	Education and training of personnel
Community not aware of initiatives	Create effective awareness campaigns to stakeholders and community
High rate of billing estimations	Conduct meter audit and bill on actual consumptions
Project not fully effected due to budget constraints ■ R14m from (O&M) ■ R7m from (MIG) <b>✓ R21m</b>	Acquire dedicated funding for NRW Reduction ■ R75 570 619.00 (MWIG) ■ R59 152 069.00 (Provisional Reserve) <b>✓ R134 722 688.00</b>

# 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

In closing...

Thank You.

