

 AquaGuard Smart Water





Mandela



"It always seems impossible until it's done."

- Nelson Mandela

 Capetonian Water Hero



What did Drakenstein do?

Results and Successes
Paarl Water Demand 1959 - 2014

Theoretical Savings
Paarl Water Demand 1989 to 2014

Courtesy of Sifiso Nkonyane and André Kowalewski from Drakenstein Municipality

Drakenstein 34.8% Non Revenue Water and losses in 1999. Pressure control and other interventions worked fantastic. Losses went down to 10% but is now rising again to 15%.

Leaks at consumer premises.
Fixing leaks in the town of Saron had fantastic results. 354l/p/d down to 150l/p/d

83% of properties had leaks that resulted in the high usage

Is conventional prepay water the answer?

Imagine **your wife** is in the shower at 10pm. **Hair full of soap**. Water valve close because **you forgot to buy tokens**. Worse, you have a **WMD** installed that automatically close, or the valve / prepay system **malfunction** and you **cannot** even **buy credit**.

Then think about singing away in the shower, all soaped up... and...

What about a number two in the loo.....

Do I need to say more?

Translate it to R's and C's?

Only a small % of people knowingly abuse water. Filling the pool and forgetting to close tap, sprayer in garden, etc.



Did you know normal water usage of 16-30kl per month costs you R1 176 opposed to R285 last year before water restrictions?



Did you know that water loss during a pipe leak could cost you R33 000 and a pipe burst R115 000?

**People don't want to use so much water.
Leaks and not having information is the issue.**

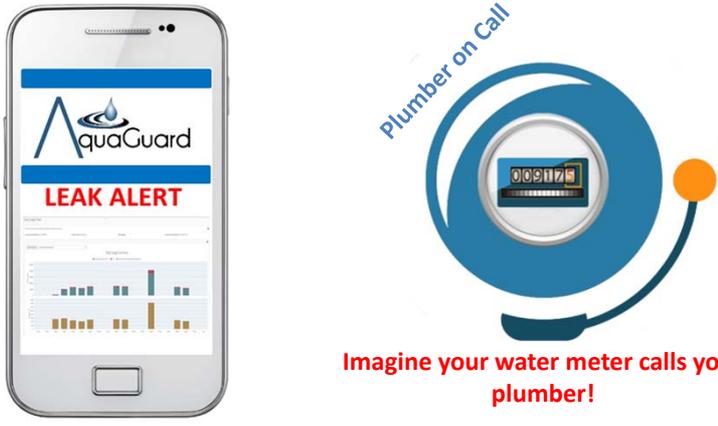
AquaGuard Making Water Meters Smart





Pulse water meter with **AquaGuard** Communication Adapter
Residential, Commercial, Industrial, Bulk distribution
RPMA Low Power Wide Area RF Communications

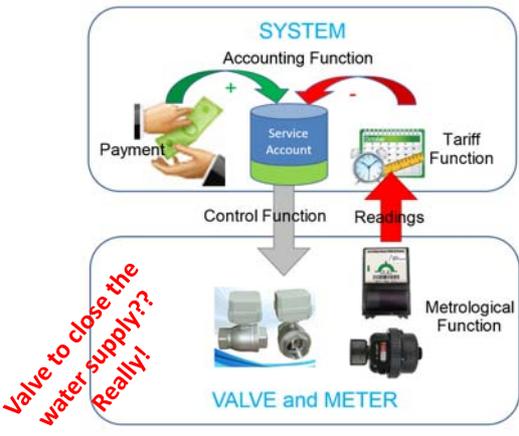
AquaGuard for the Consumer



Imagine your water meter calls your plumber!

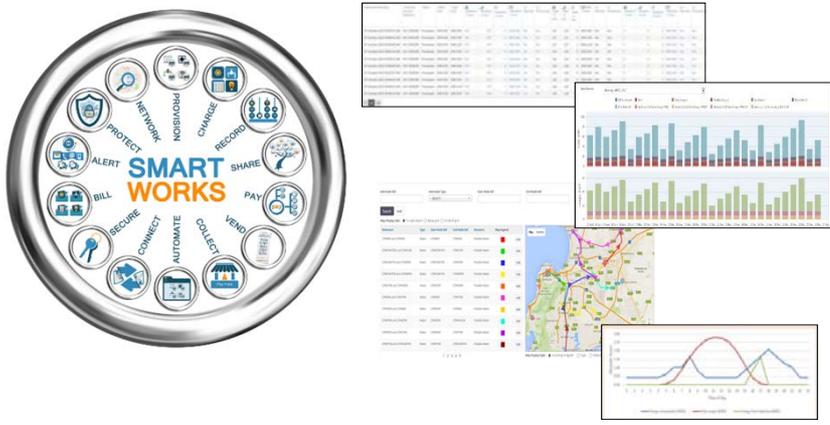
Smart Alert profiles provides a wide range of consumption and operational alerts (Email/SMS) to the consumer or the utility.
Leak , Burst, Exceeding Cost Set Limit

Smart Prepay?



The **Thin Prepayment** model can be applied to water. If consumers have to prepay their water, they will know how much each shower costs. **AquaGuard** with **SmartWorks** makes this possible. **Usage** can be viewed on the **AquaGuard Mobile App**.
 Payments can be at any of the channels offered.

 **AquaGuard for the Utility**



SmartWorks
Revenue Collection and Protection with Infrastructure Monitoring
Smart Prepayment model for Water

 **Choose the right local technology**

FOOTBALL ????



GLOBAL THINKING, LOCAL UNDERSTANDING



**Enabling the Smart Water Grid of Tomorrow...
Today.**

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