NRW?
Non-Revenue Water

WMW
Wasted Money & Water

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Water Technology Hub
• Reduce
• Reuse
• Replenish
• Reserve
THE CAUSES

01 LEAKS
02 MAIN BREAKS
03 THEFT
04 METER ERRORS
THIS COULD’VE BEEN PREVENTED

Westwood, July 2014
THE NUMBERS ANNUALLY IN THE U.S.

- Water Line Breaks: 237,600
- Gallons of Water Lost: 1.7 trillion
- Which Costs Us: $2.8 billion
IBM reports worldwide, up to **60%** of water is lost due to leaky pipes.
More than 2.8 billion people in 48 countries will face water stress or scarcity conditions by 2025.
Global Epidemic

$14 BILLION
The cost to Water Utilities globally caused by NRW is conservatively estimated at $14 billion.

45 MILLION CU METERS
With 45 million metric cubic meters lost daily through water leakage in Distribution networks – Daily!

200 MILLION PEOPLE
This wasted water would have been enough to serve 200 million people.

30 MILLION CU METERS
Similarly 30 million cubic meters are delivered daily but not invoiced
Because of pilferage employee corruption and poor metering

LOST REVENUE
If we could cut the wasted water by 50%
This reduction would generate an additional $2.9 billion in cash every year!
And would enable service of an additional 90 million people – so we get the idea it’s HUGE Problem.
Why aren’t we making a breakthrough and improving?
INNOVATION & PREVENTION

Current methods are expensive, labor intensive, and inconvenient.

Time to look at smart technologies & implementation.

Small ideas out there can lead to big changes with the right network.
A Starting Solution

1. IDENTIFY
2. PREDICT
3. FIX

REDUCE/PREVENT
Identify

- Be able to find where the leaks are occurring
- Evolving world of sensors
- Ultrasonic instrumentation to gather system data
- Smart leak detection tools
Predict

• Prevent the leaks before they happen
• Monitoring systems
• Analyzing using Proof Of Design
• Smart city solutions
• Leak control programs
Fix

• Repairing broken pipes without the huge costs
• Autonomous robots
• Underwater welding
• Pipe relining
Next Step Actions

How do these smart ideas reach a bigger audience?
That’s where we play a role

WATER TECHNOLOGY HUB
COMMERCIALIZING WATER INNOVATIONS
Disruptive Collaboration

Water affects every aspect and corner of the world.

Everyone is used to working in their separate silos, but until we work together and share ideas, we cannot get things done.

Collaboration can lead to Prevention
We want to be agents of change and that can be enhanced through meaningful partnerships with groups like yours.

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