## Strategies for Minimizing Non-Revenue Water (NRW)

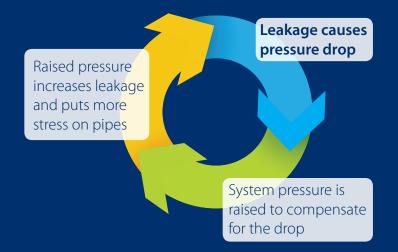
## NRW Cause #1: The Vicious Leakage Cycle

**32 billion cubic meters of water** are lost each year (World Bank)

### Half of that

is in developing countries.

That water could have served the needs of at least 32 million people



# Solution: Identify Leakage Quickly With District Meter Areas

There are around 1 million miles of water pipeline in the USA and Canada, enough to circle the globe 40 times



**District Meter Areas** turn huge water systems into a grid of water systems each with a DMA meter to measure water input.

Problematic leakage zones are now easier to identify and prioritize.

### NRW Cause #2: Water That Isn't Billed



Authorized
Firefighting,
parks



**Meters**Uncalibrated,
under-registering



**Billing**Data errors,
infrequent



Theft
Disconnected
meters

### Solution: Smart Water Management Systems Maximize Revenues



**Smart Meters** 

High-precision, tamper-proof



**AMI/AMR** 

Automated, frequent readings



Meter Data
Management
Dashboards,
reports, alerts



Integrated Billing

Always accurate

Smart management reduces NRW to the desired 10% benchmark.

#### Sources

- [1] Melissa Breyer, 36 eye-opening facts about water, March 21, 2016
- [2] William Atkinson, Say "No" to Non-Revenue Water, reprinted September 12, 2016
- [3] Global Partnership Aims to Save Lost Water, Environment News Service, September 1, 2016
- [3] Global Partnership Alfris to Save Lost Water, Environment News Service, September 1, 2016 [4] Alison Saldanha, Bengaluru Ranks Second in Water Wastage, Loses Half its Supply, The Wire, September 17, 2016

