Powered by:

Utilis

Headquarters:
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NRW = +1,000,000,000 cubic meters per day

What is the problem?
Challenges in water loss management today

1000’s of KMs to survey - Not enough workforce to do it

Limited KM capacity per day (2-4Kms)
Focusing on a small portion of the network per year neglecting leaks in other areas sometime for years at a time
Many KMs of pipes are surveyed with no leaks found
420 KMs of pipes in 80 working days (4 months)
420 KMs of pipes in 10 working days
can be repeated 2-6 times per year

80 working days (4 months)

3,300 KMs of pipes
leaks can be detected from 637KM above
Define area of interest
3500KM²
Acquire satellite images
Get the leaks in that area
Delivery and deliverables

**GIS files**
- SHP and KML for the utility mapping

**Web application link**
- For general use and for field navigation (orientation)

**Leak sheets**
- A map for every leak, for monitoring the results in the field

**Data form**
- A spreadsheet with all the leak data, for general use, monitoring field verification, and producing reports
MORE LEAKS LESS time

REDUCING WATER LOSS
Urban Network Example
Additional areas

- Rural / isolated areas
- Transmission pipes

Kansas City, USA March 2017
Australia November 2016
In just 2 days, 17 leaks were found in Miskolc, Hungary and non revenue water was reduced by 0.6%.

Doringkloof (city of Tshwane), South Africa

Utilis Inc. just finished the first project in South Africa. Using satellite based leak detection our acoustic teams found 16 leaks in just 2 days.
In July 2017 Apa Nova conducted a pilot study with Utilis, a satellite based Leak detection technology (through BIO TECH s.r.l., representative of Utilis in Romania), to assess it’s impact on their ongoing proactive leak detection program. The results were positive and further stages are discussed.

“Utilis allowed us to find leaks that would have been hard to find otherwise. In a few days of work we found some significant leaks, estimated at 250,000 m³ per year, that’s about 0.8% of our current water loss. This volume of savings, convinced us about the potential of using this technology, being complimentary to our existing methods, and further include it in our yearly program of NRW reduction. In the next phase, we will combine Utilis data with other data layers to better integrate this technology in our process, making the field acoustic verification work more efficient”

Valentin Zaharia
Director of water supply and sewage system optimization
Apa Nova Bucharest
In **September 2017** Utilis partnered with Aquasave from Macedonia for a pilot in RWC Mitrovica, Kosovo. The project was funded by the Luxemburg Agency for Development and Cooperation. The goal of the project was to assess the technology as a new tool for the RWC’s leak detection effort. The project’s results exceeded expectations and the pilot was deemed successful. Discussions for expansion are in process.

- 15 days
- 42 Utilis locations
- 60 leaks

"Statistically finding 4 leaks per day is **400% more efficient than the industry’s average**. This efficiency paired with the capability of scanning an entire network multiple times per year will definitely allow utilities to reduce their water loss significantly more than with traditional approach”

*Mr. Bojan Ristovski, Aquasave Ltd. Skopje, Owner/Managing Director*
9/10/2017 Florence, Italy

6 leaks before lunch. A great example of maximizing the potential of Utilis Inc. technology. Together with our partner 2f Water Venture srl we are assisting Publiacqua S.p.A. and INGEGNERIE TOSCANE S.R.L. in the first stages of our service contract for 6000kms of their distribution network.

18/10/2017 Grosetto, Italy

10 leaks in 2 days. Acquedotto del Fiora S.p.A. INGEGNERIE TOSCANE S.R.L. 2f Water Venture srl

When Utilis Inc. indicates suspected leakage sites in your network, its just easier to find and allows you to find more leaks per day = reduce water loss.
Plastic pipes create difficulty in leak detection. Utilis Inc. found today 3 leaks in a 80% plastic pipe network.

Finding and fixing leaks faster than they reappear is crucial for lowering physical water loss. In Pesaro, Italy MARCHE MULTISERVIZI SPA found 18 leaks this week using Utilis Inc. satellite leak detection technology.
29/8/2017 **Trieste, Italy**

Utilis Inc. uses SAR technology to help utilities around the world find more leaks per day. Here's **3 l/s of your minimum night flow**.

16/8/2017 **Albstadt, Germany**

Utilis Inc. finished the project after **15 days with 106 leaks found**, on average **7 leaks per day**.
Key benefits

- No CAPEX needed – **cost effective**
- Lowest cost of leak found of any technology
- No special implementation required
- Not wasting time on pipes with no leaks **efficiency**
- Survey the entire network a few times a year **repetition**
- Leak management capabilities

<table>
<thead>
<tr>
<th>Technology</th>
<th>Loggers</th>
<th>Utilities</th>
<th>Traditional Acoustic Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total cost</td>
<td>$14,928,350</td>
<td>$2,383,108</td>
<td>$1,875,000</td>
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<tr>
<td>Leaks found</td>
<td>644.8</td>
<td>56.38</td>
<td>2500</td>
</tr>
<tr>
<td>Cost Per Leak</td>
<td>$2,317</td>
<td>$449</td>
<td>$750</td>
</tr>
</tbody>
</table>
5 continents, 20 countries, 70 utilities
Thank You!