

# Introduction to Water Solutions





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## Agenda

- Intro to Kamstrup
- Intro to Kamstrup Smart Water Metering
- Acoustic Leak Detection
- How can Kamstrup help solve NRW issues



**We revolutionise the supply of  
clean water and energy  
through intelligence**

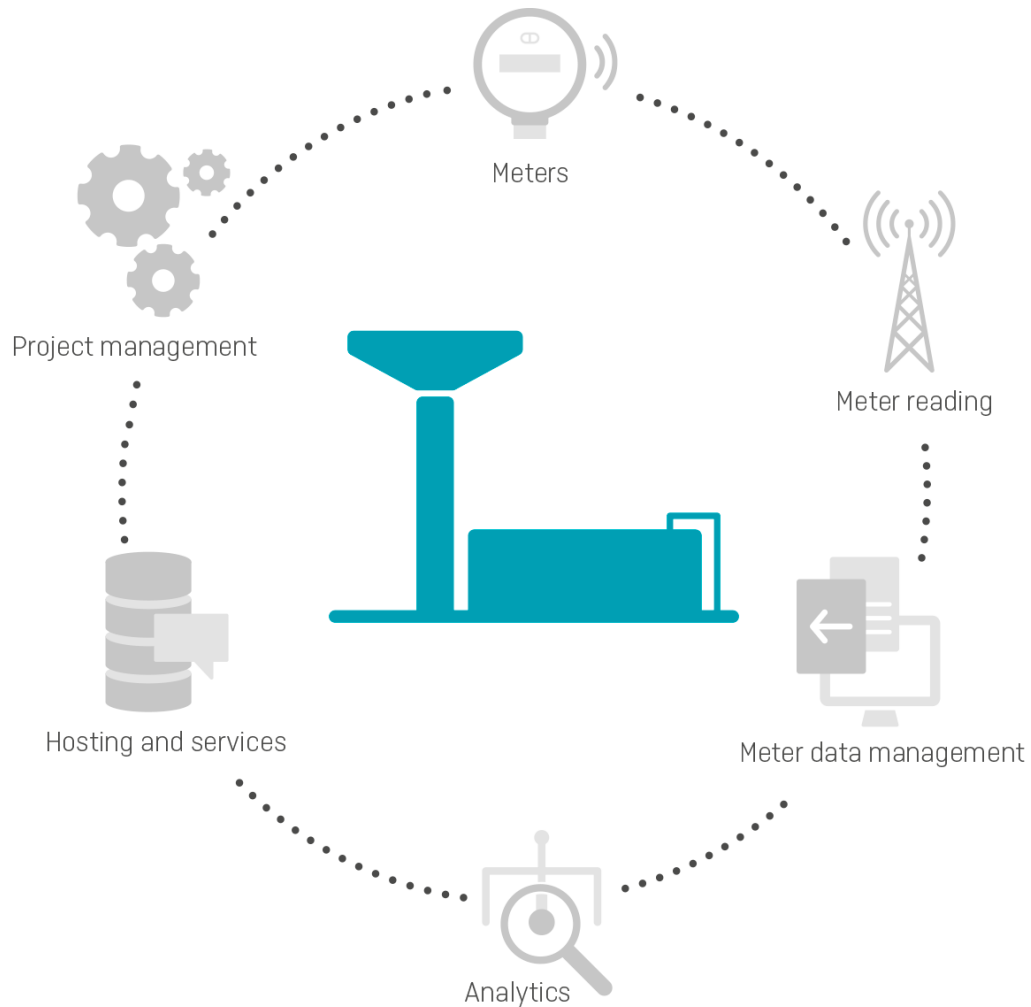
# Pioneer of Ultrasonic Technology

**kamstrup**



- Over 29 years experience in ultrasonic technology.
- Superior metering accuracy and quality.
- Manufacturing in Denmark and USA.

# Smart Water Metering Solution Overview



# Meters and Devices



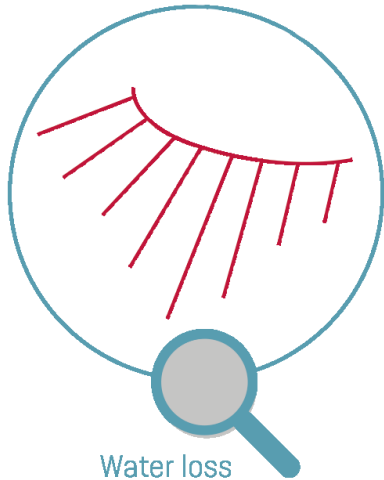
**Residential Meters**  
Multical®21  
flowIQ®2200



**Commercial &  
District Meters**  
flowIQ®3100



# How do we create value for water utilities?



- Increased revenue through accurate billing
- Improved customer service
- Operational efficiency & optimization
- Reduce non-revenue water
- Improved water use efficiency

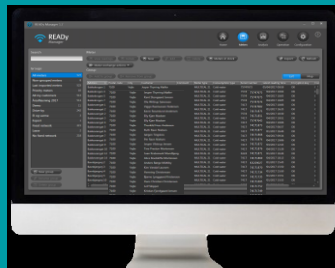




# Acoustic Leak Detection Solution



## Acoustic data collection



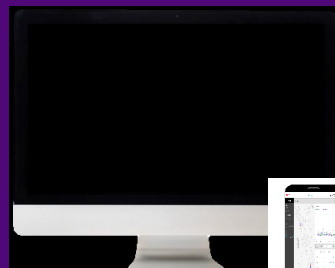
READY



flowIQ® 2200

Acoustic noise is measured and remotely communicated.

## Data Analysis & Leak Detection



Leak Detector

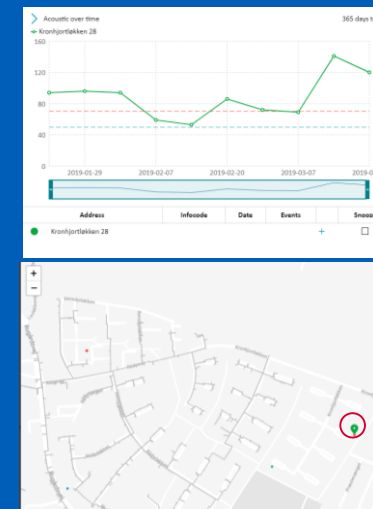
Analysis and visualization of acoustic data to detect possible leaks.

Kamstrup can provide support, training and monitoring services to assist with leak detection.

Kamstrup Services

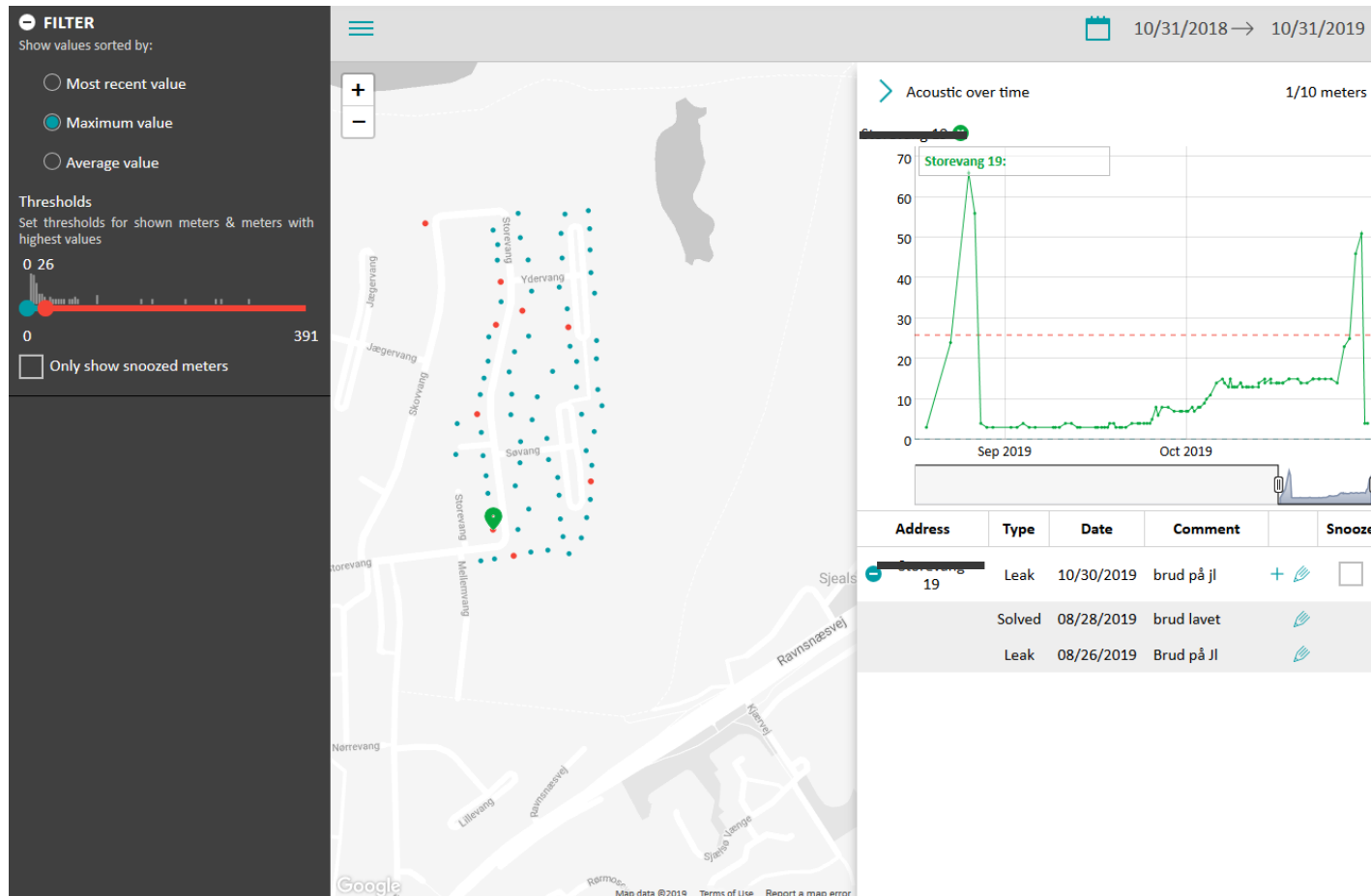


## Leak Verification



Once the area of a potential leak is determined. On site verification is needed to confirm the exact position of the leak before it is repaired. Kamstrup can provide guidelines on how to do this.

# Case Story: Birkerød



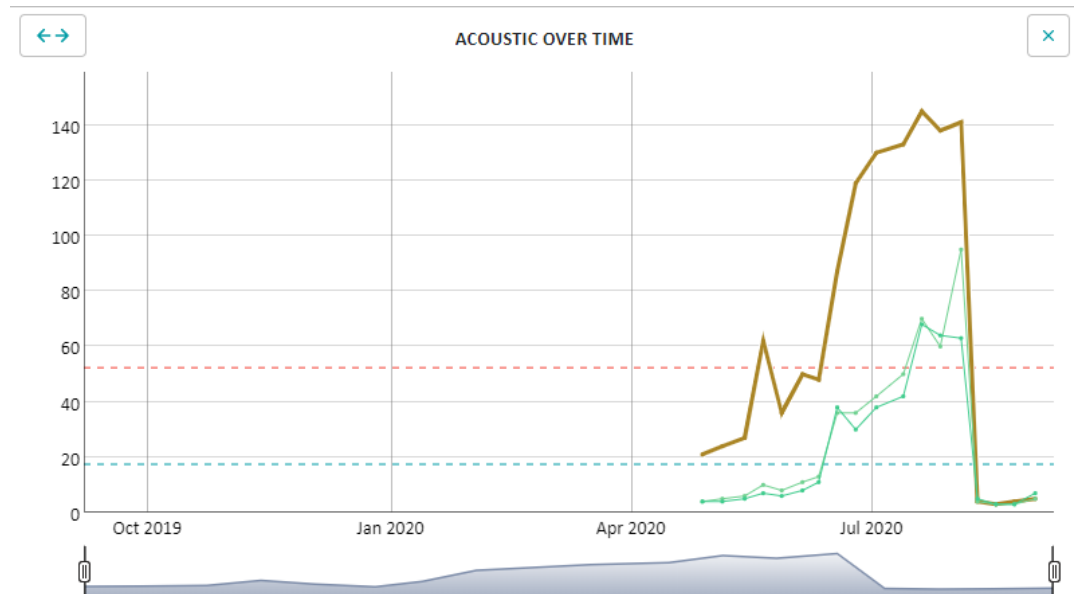
*In this particular district they found a lot of leaks, due to the pipes being installed in the 50's. The leakage in this district dropped from 1,7m<sup>3</sup>/h to 0,3 m<sup>3</sup>/h.*

## Case Story: Crystal Clear, Texas

Leak occurred near the meter flooding the meter box.

Leak rate of flow = 1 Gallon per minute = 1440 Gallons a day. = 525,600 Gallons a year = approx 1000 USD

“It works great. Very useful / helpful. We are a largely rural area – and if we are not driving around looking for leaks a solution like this can really help us identify where a potential leak is and then enables us to prioritize and efficiency hone our efforts.”  
– Crystal Clear





Questions? Ask away...

**kamstrup**

