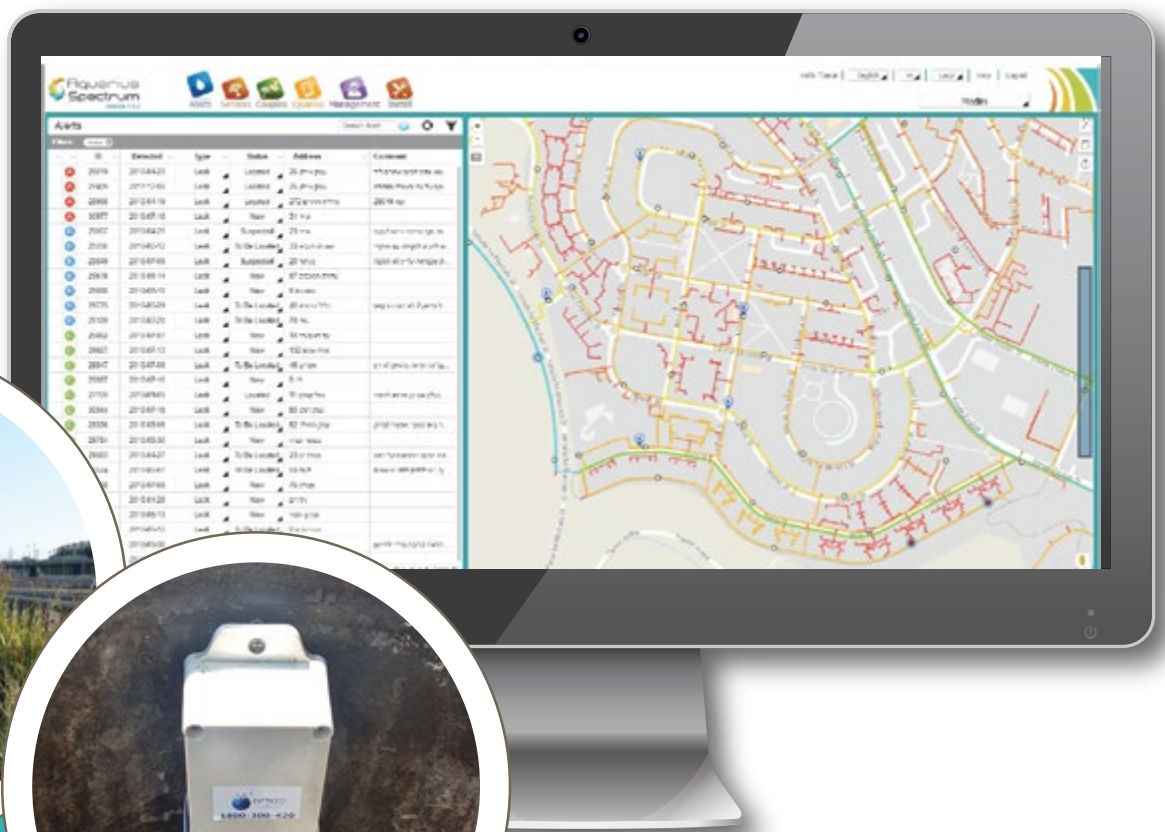


# AQS-SYS

## Fixed Leak Detection & Pipe Condition Assessment



- 1** Detection by correlation
- 2** Continuous monitoring
- 3** 3G/4G communication
- 4** Fast deployment

# Challenges

- NRW reduction in urban water networks
- Reliable underground leak detection
- Accurate underground leak location
- Water pipe bursts prevention
- Proper assessment of pipe condition

# Aquarius Response

**Innovative** solution enables Utilities to proactively **monitor** their water networks, **detect** leaks and **pinpoint** their exact locations while using highly sensitive acoustic sensors, management software & mobile applications



## AQS-SYS

Cloud based water leaks monitoring. S/W & H/W solution which analyses acoustic events from fixed sensors on a daily basis, detecting small leaks and preventing pipe bursts.

- Map-GIS based visualization of leak alerts
- Extensive management information
- Pipe condition trending by leaks history and proprietary features
- Integration with GIS systems and others.



## Technology - Sensors

Patented fixed sensors for water network monitoring. Automatic leak detection with high accuracy location by correlation between all sensors couples;

- Proven 'Plug and Play' technology - Over 3,000 sensors installed in 3 years, 100 leaks detected a year
- Easy installation on overground hydrants and underground valves
- Transfer of large amounts of data through GSM
- High accuracy with long range leak detection by acoustic correlation



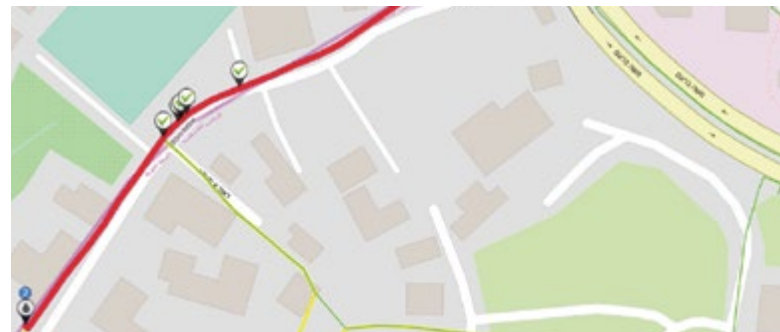
## Leak Monitoring

### Water Savings

- Identify leaks when they are small ... Avoid Pipe Bursts!
- Proven Non-Revenue Water reduction
- Precise leak location

### Customer Service & Operations Cost

- Alerts on end user leaks
- Better prediction and control of water outages
- Plan ahead leak repairs (when leaks are small)
- Avoid costly emergency work - Proactive vs. Reactive (planned vs. emergency)



## Pipe Condition Assessment

### Integrating Big Data with Smart Dynamics Surveys Maintenance & Replacement

- Big Data analytics of pipes, failure data and proprietary features of acoustic monitoring
- Replacement prioritization by condition rather than age
- Saving millions by extending the life of existing assets and by optimizing replacement decisions
- Detects faulty equipment (valves, air vents, meters)



[www.aqs-systems.com](http://www.aqs-systems.com)

Tel: +972.74.7136644 | Fax: +972.4.6709014 | [info@aq-systems.com](mailto:info@aq-systems.com)