

## AQS-SYS

### Water Network Monitoring & Leak Detection



1

Detection by correlation

2

Continuous monitoring

3

GSM 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

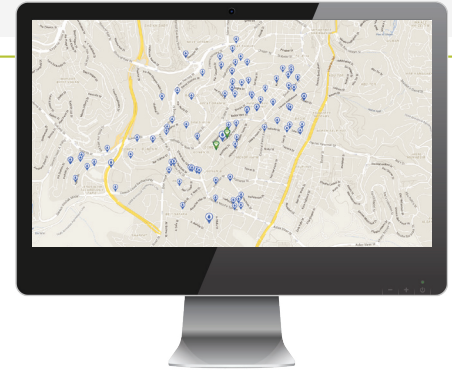
# Aquarius Response

**Innovative** solution enables Utilities to proactively **monitor** their water networks, **trace** 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, tracing small leaks and preventing pipe bursts.

- Geographical based visualization of leak alerts
- Extensive business information
- Pipe condition trending by leak statistic
- 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



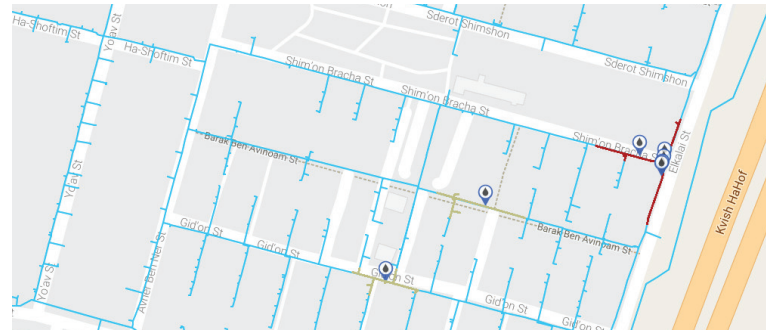
## Leak Monitoring

### 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

### Maintenance & Replacement

- Detects faulty equipment (valves, air vents, meters)
- Preventive maintenance — improves network longevity
- Replacement prioritization — efficient use of limited budget
- Replace only what's needed — not due to aging

### Asset Management

- Pipe analysis by leak statistics
- Full history of repairs
- Automatic 'Red Zone' identification



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