

# AQUA-Q

Innovation In Water

Clean Technology From Sweden

## Corporate Background

The company, AQUA-Q AB, is one of the most exciting and groundbreaking innovation emerging from the Swedish cleantech sector. The company has created a novel monitoring and sampling process based on the extensive experience and knowledge of its founders.

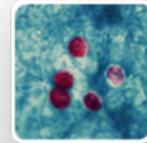
*“Clean water technology from Sweden”*

The founders spotted a significant gap and need in the market for efficient, cost effective and real time monitoring and dynamic sampling products for water infrastructure companies and industries that use significant water in process and product.

### We differentiate our product and technology by:

- **‘Dynamic Sampling’**  
Most competitor products offer ‘periodic random sampling’ which has significant limitations in regards to risk mitigation, as random sampling seldom detects accurately any contamination in water. AQUA-Q has overcome this limitation through the introduction of its innovative dynamic sampling patented technology.
- **‘Online Early Warning System’**  
An online early warning system enables management to take evasive action to reduce any damage from contamination.

*“To mitigate risk in water infrastructure is our focus”*



AQUA-Q was established to develop a product that combined the strengths of ‘real time, dynamic sampling and an early warning system’, to create an ‘efficient, cost effective and novel’ tool for management to mitigate against the significant threat of waterborne pathogen parasites and bacteria, in particular, *Cryptosporidium* and *Giardia*. AQUA-Q’s strength: online monitoring, sampling and ozone polishing.

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# AQUA-Q

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# Business Description & Services

AQUA-Q, a company with outstanding applied research achievements, has designed and created an innovative technological solution AQUATRACK™ for use in water treatment (source water, drinking and treated wastewater) plants and water distribution infrastructure. The company also targets key industries that have a high level of water dependence in the process and end product, to include the pharmaceuticals, healthcare, cosmetics, industrial, food & beverage, pulp & paper sectors. The company also targets other industries.



**“For source water, drinking water and treated wastewater”**

## Core Product Philosophy

The core product philosophy is to increase ‘customer confidence in water quality’ by reducing risk to process and product from contaminated water. The company works closely with customers in identifying ‘risk points’ in existing process and infrastructure and mitigating the risk by positioning the AQUATRACK® Early Warning System at vulnerable links in the process to enable customers to detect early ‘contamination events’. The company believes both ‘process innovation’ and ‘technology innovation’ are key in the reduction of risks, costs and the safeguarding of customers water assets.

## Ensure ‘Real Time and Reliable’ Water Analysis

Current products in the market offer online monitoring of water quality on a continuous (24/7) basis, but are limited to statistical information that does not reflect any microbiological activity. These products fail to address the fundamental issues of ‘real time and reliable’ water analysis due to the significant limitations of ‘non-dynamic sampling’.

AQUATRACK® Early Warning System is the first water monitoring system that utilises ‘dynamic sampling’ to enable customers to assess microbiological contamination on a ‘real time’ basis when the dynamic sampling is triggered on any deviation from microbiological set standard quality level. The advantages of an ‘Early Warning’, assists the customer in taking evasive actions due to threat of microbiological contamination. AQUA-Q uses well defined and tested standard instruments for its product.



**AQUATRACK®**

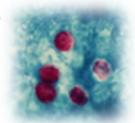
## Benefits:

- Correct and traceable water sample for microbiological analysis.
- High confidence in results from analysis.
- Detects process variations in time and reduces downtime and costs.
- Easy installation and low maintenance cost.

# The Threat

## Water Infrastructure & Industry

- Water born contamination in drinking, source and recycled water is a serious threat to water infrastructure, consumers, and for industrial process water.
- Lack of early detection and warning coupled with random sampling amplifies the unpredicted danger of contamination from bacteria like *E. coli* and parasites like *Cryptosporidium* and *Giardia*.
- Contaminated water is a significant threat to industries that depend on use of water in their process and product. The threats include, downtime, increased costs, reputational damage and potential legal liabilities to name a few.
- AQUA-Q Early Warning System AQUATRACK® is a novel water technology created to mitigate the substantial threat from contamination of water.



### “Pathogenic Outbreak”

### “Water Safety”

- Real time monitoring and sampling with powerful disinfection with ozone gives controlled water safety. The system AQUATRACK® can be carefully pre-programmed to alert and provide the processed information of predefined suspected pathogens which may cause a risk.

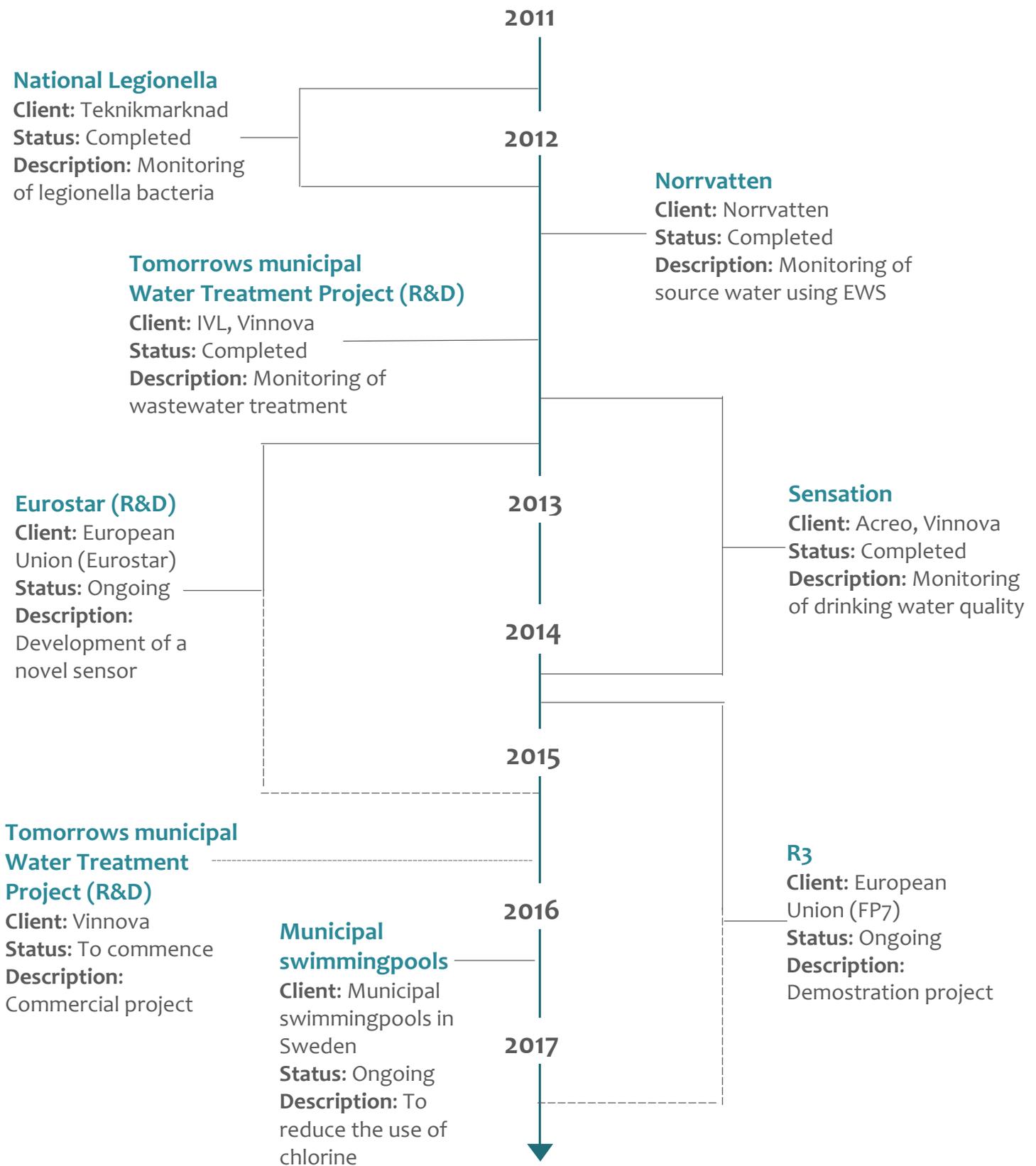
### “Secure the Evidence”

- An outstanding feature of AQUATRACK® is that it automatically captures water sample in programmable volumes to secure the evidence with time and date. An alarm and information is sent to responsible authorities of the water plant. Water sample for parasite analysis is easily captured and volume can be reduced.

Early Warning System AQUATRACK™ together with Quick Analysing Kit, **MultiReader**, is a powerful tool for quality assurance of a process. MultiReader is validated according to ISO 16140:2003.



# Projects



## Cooperation Partners in Research & Development

Strong R&D relationship with:

- **Swedish Environmental Research Institute (IVL)**, a leading global environmental research institute.
- **Royal Institute of Technology in Stockholm (KTH)**. KTH is the largest and oldest technical university in Stockholm and provides a third of the countries technical research capacity at the university level.
- **PML – Particle Monitoring Technologies Ltd. Israel**. Optical laser beam sensor developer.
- **M.B.S. Srl – Micro Biological Survey Italy**. Developer of quick microbiological assay.
- **CSIR – Central Glass & Ceramic Research Institute, India**.



## Patents & Trademark

- Swedish patent granted 2015. PCT application filed.
- European trademark AQUATRACK® granted 2015.

## Verification

- AQUA-Q's AQUATRACK® online monitoring and sampling system is under the process of impartial verification ETV (Environmental Technology Verification).
- ETV (<http://iet.jrc.ec.europa.eu/etv/>) is an independent European technology verification body which verifies the claims that have been submitted by AQUA-Q.

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