

An innovative real-time sensing device  
for water quality analysis and condition-based monitoring

## JOINT VENTURE

Mekorot's expertise in water innovation  
together with Newsight's spectral sensors  
led to the creation of the **AquaRing**



## TECHNOLOGY

CMOS image sensor  
IoT spectral sensor monitoring device  
Powered by AI & Machine Learning  
Covering between visible to near-infrared spectrum  
Up to 4000 images per second for accuracy & sensitivity



Real-time detection & alert	Generate an extensive data set	Low power consumption
Small footprint	Low-cost	Easy installation

## ADVANTAGES

Water quality assessment & knowledge Management tool	Improving management-informed decision-making	Identify and address water risks in real-time
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## USE CASES

WATER UTILITIES & SMART WATER SYSTEMS	Traceability of the event location throughout the process lines Decision support tool
FOOD & BEVERAGE INDUSTRIES	Quality Assurance - Ensuring products meet the standards and specifications requirements CIP - Reducing the cost of water, energy, and chemical consumption
AGRICULTURE	Ensuring the efficient and safe use of fertilizers for healthy plant growth. maximizing crop yields, while minimizing environmental impact.

## FIRSTHAND EXPERIENCE WITH THE VALUE OF THE AQUARING

Watersight offers two piloting tiers:

AquaRing III and AquaRing X

### The pilot kit includes

AquaRing, an Installation kit, and Monitoring Software

Piloting comes with Watersight's close support

## CURRENT SUCCESSFUL PILOTS PARTNERING WITH TOP PLAYERS

WATER  
UTILITIES



F&B  
INDUSTRIES



AGRICULTURE



SMART WATER  
SYSTEMS



## Two phases for efficient **Condition-based monitoring**

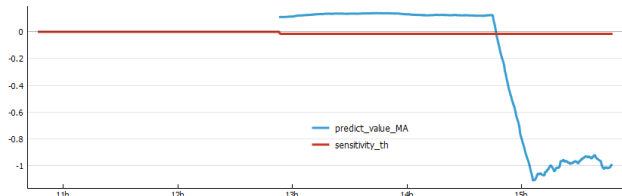
**Training Phase** - Abnormal thresholds are setup

**Monitoring Phase** - Includes continuous monitoring with Improved AI and Machine Learning models.

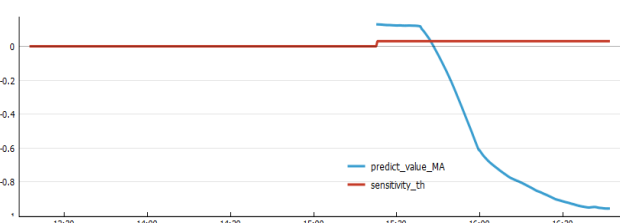
Any deviation from the threshold will trigger an alert

## SELECTED RESULTS

### Iron



### Nitrate NO3



### Mixed Metals Iron & copper Multiple dilutions

