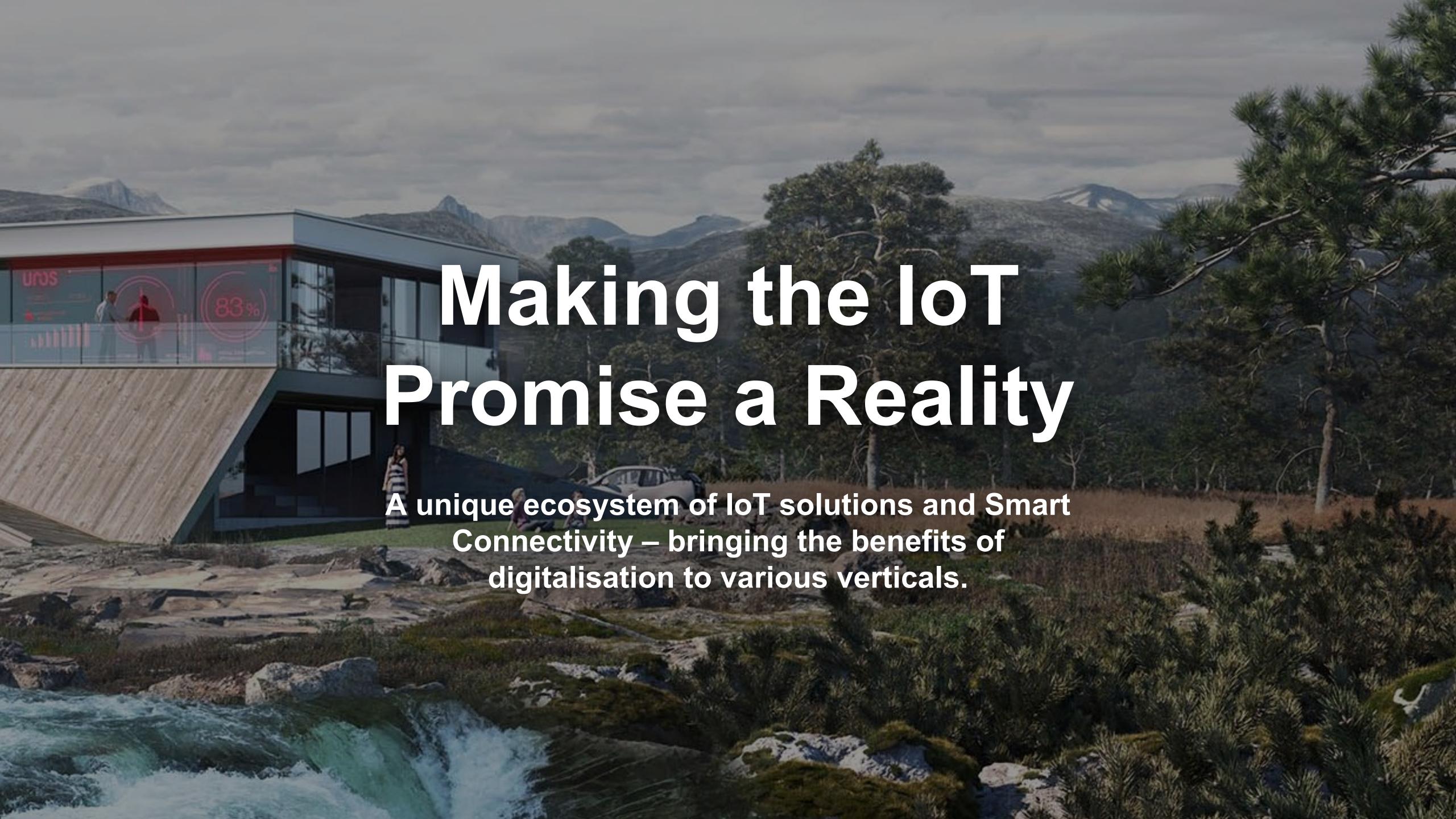
# 





The world's only singlesensor solution capable of detecting multiple types of contaminations in real time, in any type of liquid, designed for even the harshest environments.







# The early warning system for liquid quality monitoring.

Think of it as the 'smoke detector' for liquid quality deviations.

## UMS Sense / Key Feature

# Instant, usable and easy-to-interpret data

Get a real-time view of the electrochemical fingerprint of the liquid, automatically measured once a minute, and presented online.

## UMS Sense / Key Feature

# Al powered notification service

Take corrective actions without delay when needed thanks to the automatic alerts, set off by significant deviations from the baseline. Receive alerts by e-mail.

## UMS Sense / Key Feature

# Easy installation

The wireless sensor units are delivered pre-configured and come with full installation instructions. Installation takes less than 15 minutes per unit.

Once installed, monitoring results are instantly available on the online dashboard.

## UMS Sense / Key Benefit

# Powerful Insight

Uncover cause-and-effect relationships affecting liquid quality that parameter-selective sensors and solutions fail to see.

### UMS Sense / Key Benefit

# Savings

Save money and resources by detecting and dealing with issues before they affect end-product quality. Less spoilage. Less waste.

## UMS Sense / Key Benefit

# Sustainability

Respond to current social, economic and environmental trends and demands while improving your image.

### Key Features + Benefits summary



### Instant, usable and easy-to-interpret data

Get a real-time view of the electrochemical fingerprint of the liquid, automatically measured once a minute and presented online in real time.



#### Al powered notification service

Take corrective actions without delay when needed thanks to the automatic alerts, set off by significant deviations. Receive alerts by email.



#### **Easy installation**

UROS Sense units are delivered preconfigured and come with full installation instructions. Installation takes less than 15 minutes per unit. Once installed, monitoring results are instantly available online.



#### **Powerful insight**

Find and understand cause-and-effect relationships affecting liquid quality that parameter-selective sensors and solutions fail to see.



#### Savings

Save money and resources by detecting and dealing with issues before they affect end-product quality. Less spoilage. Less waste.



#### **Sustainability**

Respond to current social, economic and environmental trends and demands while improving your image.







UROS Sense Sensor unit



UROS Sense Service subscription



UROS Sense Dashboard





### Pricing model



#### Sensor

#### **One-off cost**

/ unit

- Includes preconfiguration by UROS Experts
- Includes gateway for connectivity
- Includes setting the baseline values through a 2-week monitoring period with assistance of UROS Experts

#### Service

#### Monthly fee

/ unit

- Access to the UROS Sense Platform
- Monitoring the liquid quality
- Automatic alarms when a change is detected
- Analytics and handling of the sensor data
- Monitoring battery level
- Network connectivity, with support for global rollout
- Over-The-Air Device Management for FW updates
- Technical support
- Pre agreed number of hours of UROS Expert service for consultation

#### **Expert Service**

#### **Fixed rate**

/ hour

Additional consulting services are offered at a fixed hourly rate





### Applications and use cases

#### **Municipal Water**

Monitor water sources. Shift from reactive actions to proactive operation, and safer, high-quality water for the city's inhabitants.

#### **Industrial Waste Water**

Identifies and locates abnormal discharges into natural water bodies.

#### **Beverage Production**

Potential issues can be detected and dealt with before they affect end-product quality

#### **Brewery**

Maintain high quality and unique flavour with constant quality monitoring.

#### **Pulp Biocide**

With early corrective actions and adjustments to the biocide feed, quality problems can be prevented, and good chemistry maintained.





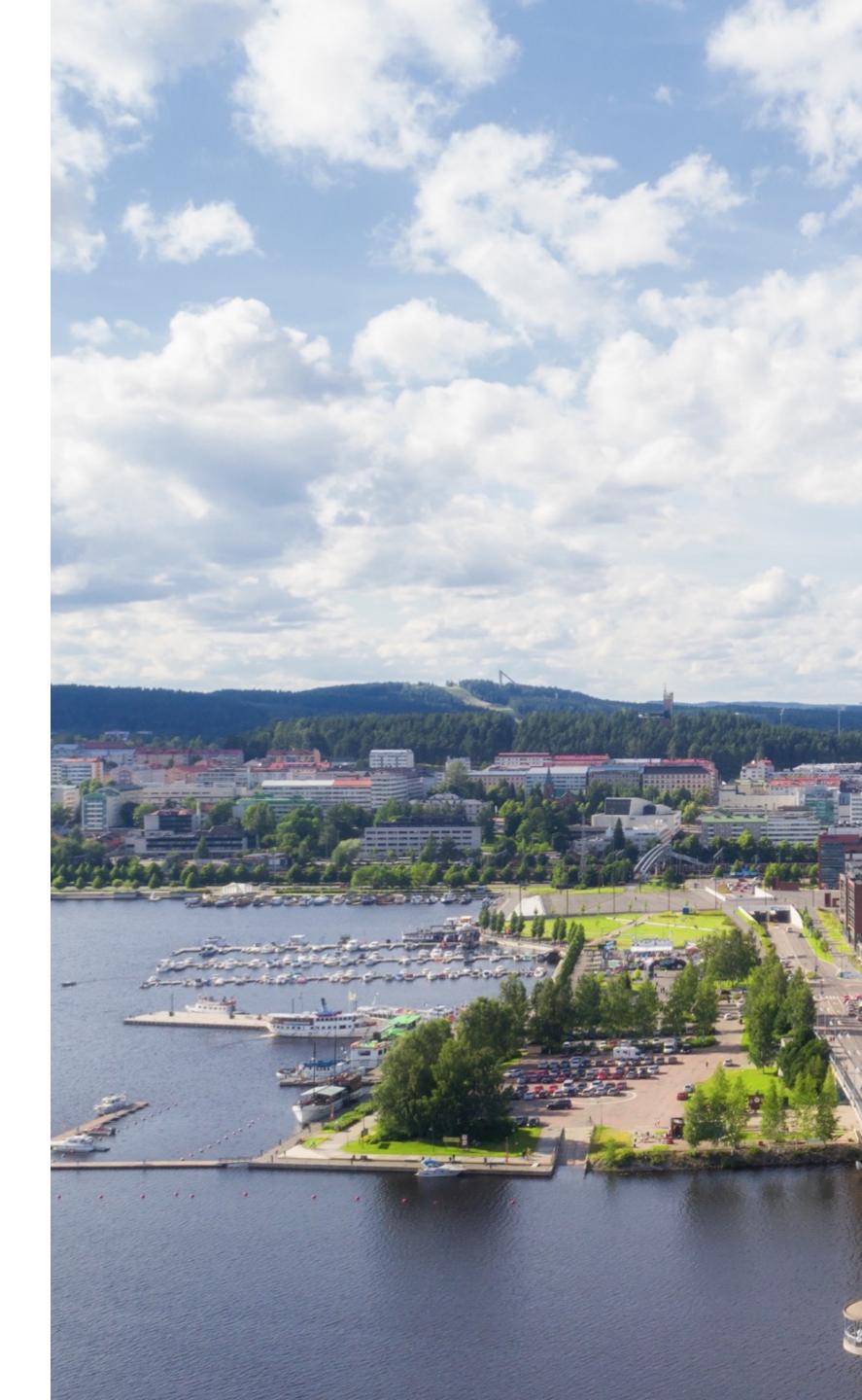
# Use cases/ References





# UROS Sense brings operational savings to the City of Jyväskylä

Jyväskylä city in Finland monitors all of the city's six water sources with UROS Sense. Previously, monitoring was done manually every 30 days. Not only was this expensive, but it resulted in hit-and-miss water quality and contaminations. With UROS Sense, Jyväskylä has achieved operational savings alongside with a better management of the whole water cycle, a shift from reactive actions to proactive operation, and safer, high-quality water for the city's inhabitants.





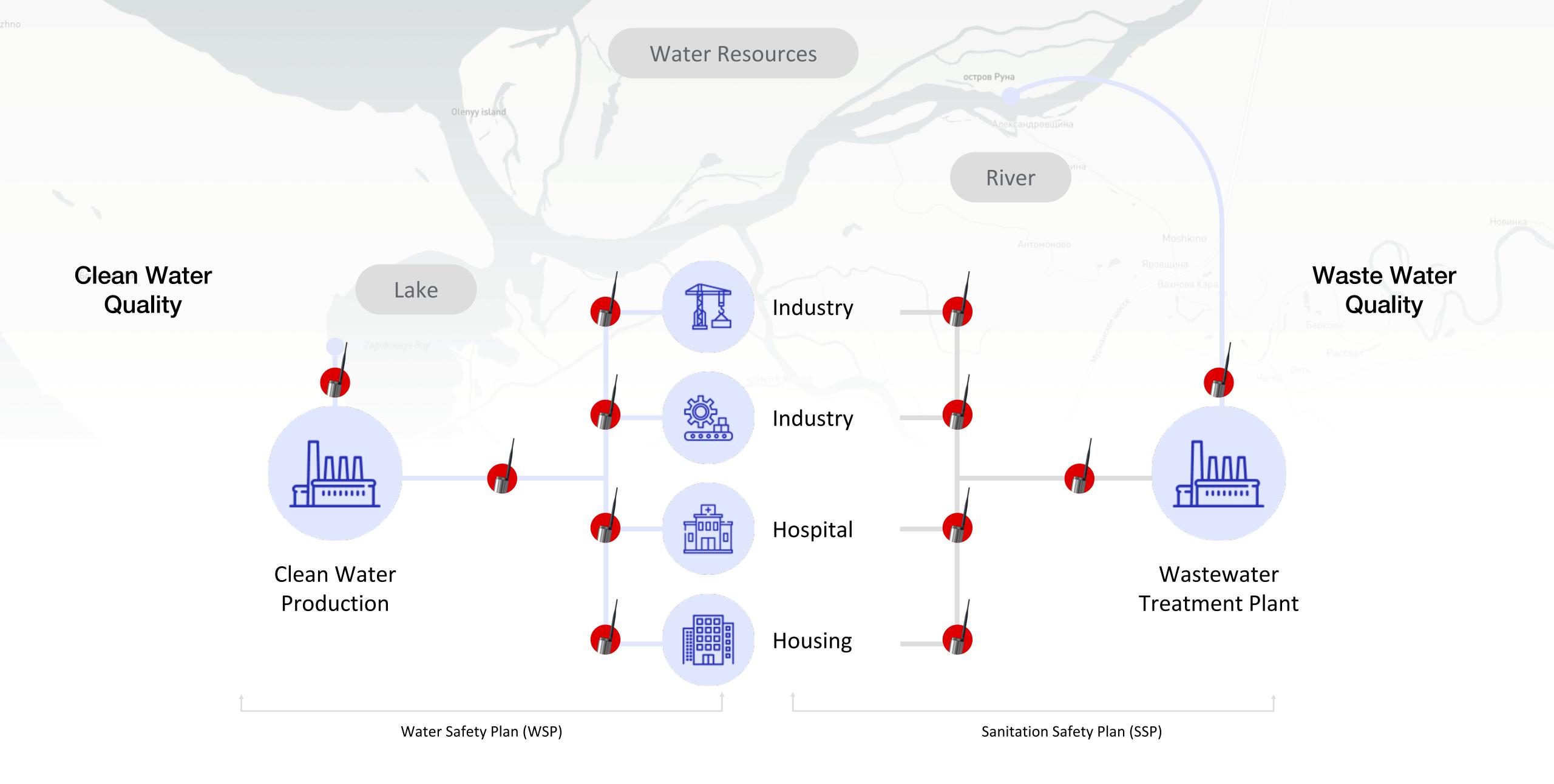


# City of Kazan protects Volga River with UROS Sense

With the help of UROS Sense, Kazan's government identifies and locates abnormal discharges into the Volga river. With the real-time information provided by UROS Sense, local authorities are able to take timely action and work together with the polluting factories to resolve issues quickly, contributing to a more sustainable management of the Volga river and the environmental welfare of Tatarstan and Russia.









#### Beverage Industry Reference / HARTWALL

# Hartwall optimizes beverage production with UROS Sense

Hartwall, the leader in the Finnish beverage industry, uses UROS Sense technology. Since the solution was implemented, numerous potential issues have been detected and dealt with before being able to affect end-product quality. UROS Sense raw water chemistry monitoring and early warning system have brought significant savings within Hartwall's beverage production process. In addition to manufacturing its own brands, Hartwall also owns the licence for manufacturing and selling some of the biggest beverage brands in the world, in Finland.







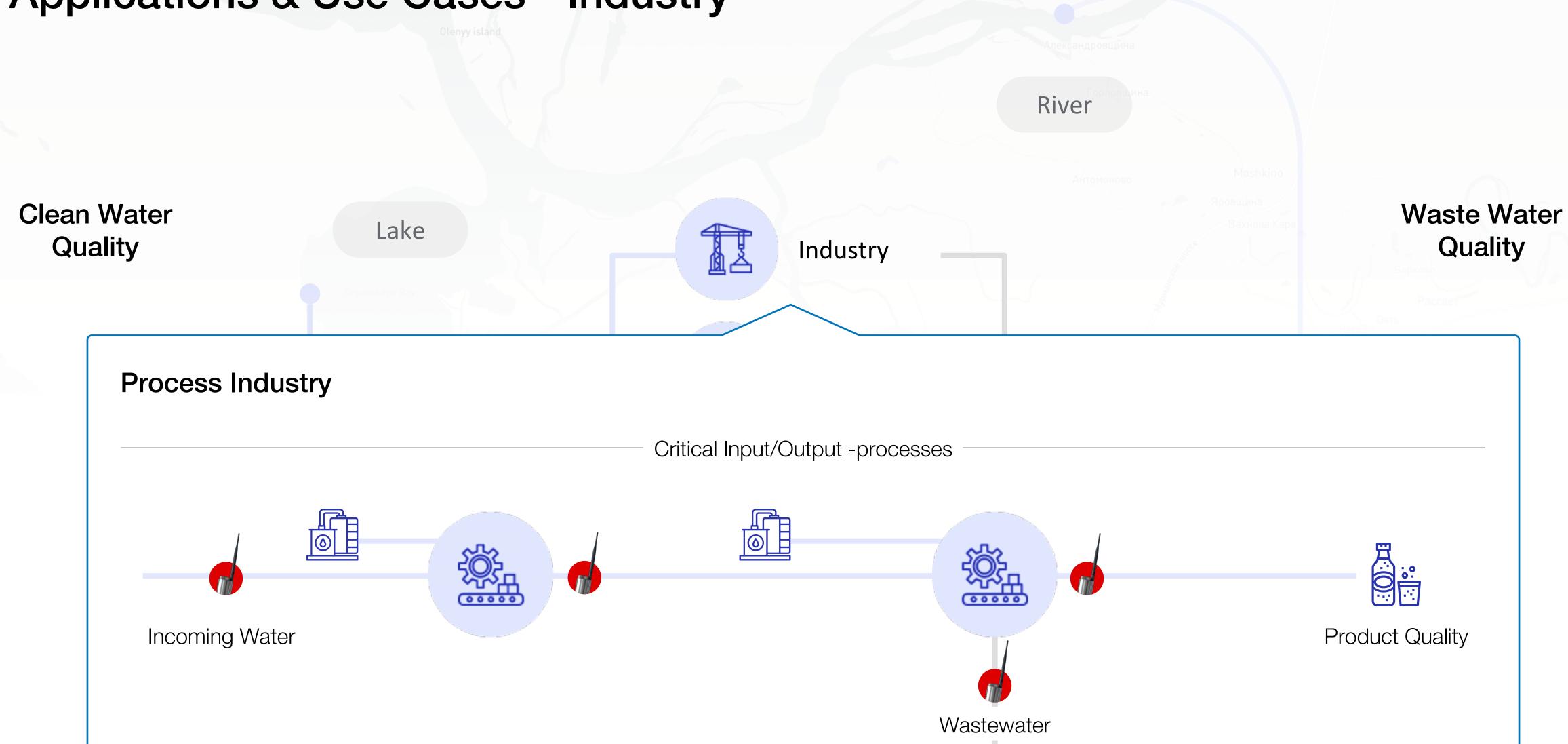
## **UROS Sense ensures superior** quality at Sonnisaari Brewery

Sonnisaari, the fast-growing independent craft beer brewery from Northern Finland relies on UROS Sense technology to maintain the high quality and unique flavour of their Nordic craft beers. Constant quality monitoring - an important contributor to Sonnisaari's customer promise of superior quality and flavour - can be done in real time, without costly manual labour, meaning that a batch never has to go to waste.





## Applications & Use Cases - Industry Water Resources







#