aqua3S

2nd **Prototype Testing**

Objectives

Second aqua3S prototype testing

- Support Water Authorities with monitoring the status of the sensors.
- Install the Refractive Index and Ammonia sensors in the water networks and sources.
- Detect anomalies & evaluate interventions in the water networks with sensor data and EPANET.
- Raise alerts for early warning.
- Provide decision support with crisis management scenarios.
- Enhance sensor data with the analysis of satellite images and social media.
- Provide real-time assessments for the crisis severity level.
- Become a promising tool for daily assistance as part of the legacy systems.
- Serve as a baseline to build upon for the final system!

4 Locations

Pilot case in Limassol:
Algae bloom detection in dam, shutdown of desalination plant & call complaints

- Complete real-time overview of the situation of the sensors for better monitoring of the dam through the 3D map and the analytics tab.
- Detection of anomalies and raising of alerts.
- Ability to set up alert thresholds for each sensor.
- Monitoring and progress of algae bloom phenomenon using satellite data.
- Integration of call complaints data in the aqua3S platform.
- Email notification to all involved parties in case of alerts.
- Crisis management scenarios for algae blooming.

📍 Pilot case in Trieste:
Blackout in wells, damage in pipes due to high tide & contamination

- Complete real-time overview of the situation of the sensors for better monitoring of the aqueduct through the 3D map and the analytics tab.
- Detection of anomalies and raising of alerts.
- Ability to set up alert thresholds for each sensor.
- Monitoring and progress of flood events using satellite data.
- Increasing situational awareness with real-time monitoring of crowdsourced information.
- Comprehensive risk assessment viathe flood risk maps.
- Integration of the EPANET model for anomaly detection and interventions evaluation.
- Flood crisis management & unavailability scenarios for decision support.

📍 Pilot case in Sofia:
Algae bloom detection in reservoir

- Real-time overview of the situation in the drinking water network and the dam through the 3D map and the analytics tab.
- Detection of anomalies and raising of alerts.
- Ability to set up alert thresholds for each sensor.
- Increasing situational awareness with real-time monitoring of crowdsourced information.
- Monitoring and progress of algae bloom phenomenon using satellite data.
- Crisis management scenarios for algae blooming.
- Email notification to all involved parties in case of alerts.

📍 Pilot case in Botevgrad:
Leakage incident

- Clear overview of the situation of the reservoir through the 3D map and the analytics tab.
- Detection of anomalies and raising of alerts.
- Ability to set up alert thresholds for each sensor.
- Detection of oil spill events using satellite data.
- Crisis management scenarios for oil spill.

Get In Touch

- 🐦 @aqua3seu
- in aqua3S
- www www.aqua3s.eu
- ✉ info@aqua3s.eu