

# ENHANCING STANDARDISATION STRATEGIES TO INTEGRATE INNOVATIVE TECHNOLOGIES FOR SAFETY AND SECURITY IN EXISTING WATER NETWORKS



## WHAT IS aqua3S ABOUT?

Exposure of citizens to potential disasters has led to vulnerable societies that require risk reduction measures. Drinking water is one of the main risk sources when its safety and security are not ensured.

aqua3S project steps in to combine novel technologies in water safety and security, aiming to standardize existing sensor technologies complemented by state-of-the-art detection mechanisms.

## WHAT ARE THE OBJECTIVES?

- Creation of strategies and methods to be adopted by water facilities for easily integrated, water safety solutions.
- Proposition of innovative water safety sensor technologies.
- Creation of early warning methods for water authorities.
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- Creation of a problem-recording and new-solutions collaborative system.
- Facilitation of authority involvement in water related crises.
- Creation of estimation methods for infrastructure resilience levels.
- Modelization and classification of crisis events.

## WHERE ARE THE PILOTS?



- 📍 Trieste
- 📍 Thessaloniki
- 📍 Paris
- 📍 Lemesos
- 📍 Brussels
- 📍 Sofia

## WHO ARE THE PARTNERS?



## EXPECTED RESULTS & IMPACT

aqua3S foresees the improvement of innovation capacity and integration of new knowledge in five main areas of innovation:

- ✓ Innovation in substance detection in water
- ✓ Innovation in data acquisition from UAVs and earth observation
- ✓ Innovation in social media monitoring
- ✓ Innovation in algorithms for threat detection and localisation in the existing water distribution networks
- ✓ Innovation in crisis management modelling for enhance preparedness

## ADDITIONAL INFO

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