



A holistic water ecosystem for the digitisation of the urban water sector

NEW TO NAIADES? HERE IS SOME BACKGROUND

Dear Smart Water Community and friends,

It is becoming increasingly clear that the shift to a circular economy is a necessary step guarantee a more sustainable present and future. In order to foster this process, water, as a precious commodity and a basic requirement for life, must play a central role. It is in this context that NAIADES strives to transform the water sector through automated and smarter water resource management and environmental monitoring, achieving a high level of water services in both residential or commercial consumers, while exploiting the efficient use of physical and digital components of the water ecosystem. Our research involves 3 pilot sites in Switzerland (Carouge), Spain (Alicante) and Romania (Braila).

Work on our project has started; after a first kick-off meeting in Thessaloniki, the pilots are now focusing on the technical aspects and planning a reunion in Athens to finalise architecture and security related topics. We are happy to announce that we are also organising a workshop on Smarter Water Resource Management and Environmental Monitoring in early 2020. More information to follow.

As this activity progresses, work continues over the coming months across the consortium partners on the next stages of implementation. Please stay tuned for updates!

In the meantime, we kindly invite you to follow us on our social media channels to be informed of our activities and to visit our website for additional information about the project.

With warm regards,

Anna Brékiné

On behalf of the NAIADES team



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OUR 3 PILOT SITES

CAROUGE (SWITZERLAND)

Carouge aims to incorporate the following objectives:

- Defining a reference model for water management processes using IoT, AI and blockchain related technologies;
- Improving and monitoring the quality of the water fountain for the citizens (including monitoring waste such as paper, plastic in the water fountains);
- Improving the quality of work for the city staff and decrease their workload with automated services;
- Maximizing the efficiency of water used by the city.



ALICANTE (SPAIN)

Alicante aims to incorporate the following objectives:

- Ensuring a balance between short time water availability and demand by creating an IoT environment with the available infrastructure;
- Ensuring strategic continuity of the service;
- Strategic management of infrastructure by homogenization of subsystems in water management systems with the aim of improving the communication paradigms and higher granularity;
- Environmental integration and sustainability;
- Reduction of operational costs;
- Optimization of the waste water treatment process in order to maximize water reuse, while reducing energy consumption.



BRAILA (ROMANIA)

Braila aims to incorporate the following objectives:

- Streamline the company's economic activity, increase of incomes;
- Reduction of losses on the distribution network;
- Reduction of losses resulting from damages on the water supply networks due to the appearance of external factors with a special impact (ram strikes);
- Flood prevention due to the discharge of the waste waters transported in sewerage network.

