

WATER-M

A unified Water information Model for decision-making support for reliable

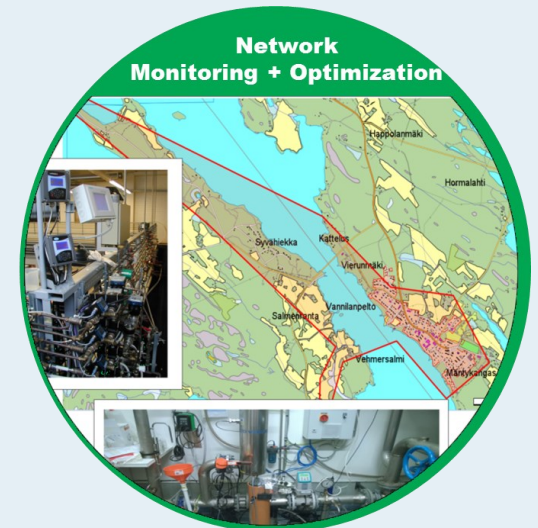


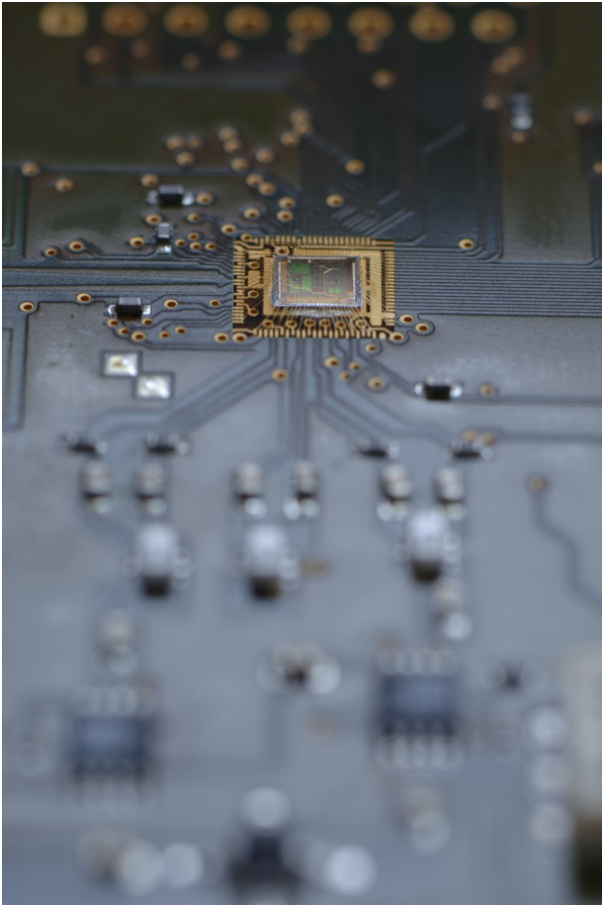
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Use cases

Five different international pilot-demonstrations were accomplished during the project

- Water Network Monitoring in Kuopio, Finland
- Water Network Monitoring in Saint Etienne, France
- Waste Water Plant Monitoring in Turkey
- River Monitoring in Romania
- Urban Farming in France





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A unified Water information Model for decision-making support for reliable information.

Water-M project focuses on finding solutions to the interoperability, real time, big data and heterogeneous data challenges to being able to guarantee water supply and quality along with the stability and reliability of a smart water network.

Water-M

Only 2.5% of the total amount of water corresponds to fresh water. In the last decades, human population has increased by a factor of 3, but at the same time water demand has increased by a factor of 6. Water is a finite resource that should be carefully managed. However, more than 50% of the world population is living on areas with a water sustainability problem. In this regard, water industries are using SCADA technologies to support their business processes, but this is clearly not enough. To solve the water sustainability problem and due to the water process complexity, a major upheaval of the water industry is needed with the introduction of novel concepts, such as GIS integration, quality management programs or real-time data management. In this context, ICT technologies are needed to drive these challenges.

Aim

The Water-M project is scoped to enable the creation of new products and services to build a unified water business model that will benefit European Union water stakeholders. Early warning tools, real-time acquisition and processing platforms, services for water suppliers and water consumers represent the core of the project. Water-M project deals with the interoperability, real-

time, big data and heterogeneous data challenges to find solutions towards a Smart Water Network.

The expected outcomes of the project are the following: First, a robust secured distributed data platform supporting real-time data distribution and distributed control mechanisms. Water -M project will provide a unified Water Information Model for exploiting data from the water grids and support decision making to increase reliability operation.

The Water-M project combines real-time monitoring and operational control, service-oriented approaches and event driven mechanisms in the water management domain. Altogether, they represent innovative aspects in water management.

