



FIWARE for the Next generation Internet Services for the WATER sector

How to link physical and digital worlds for WATER?

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In a nutshell

Key figures

3 years

(2019-2022)

14 partners

(experts in ITC, water and social sciences, coordinated by OIEau)

4 Demo Cases

Athens Water Supply and Sewerage (GR)
Cannes Water Distribution System (FR)
Amsterdam Wastewater Treatment (NL)
Smart metering (UK)

3 Demo Networks

Municipal Governments
Policymakers and managers
SMEs and innovators



This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No. 821036.

Consortium



Skills

ICT

Stand., sensors

Data analytics

Water

Social Science

Innovation

Water Utilities

Main Objectives

FIWARE ecosystem

4 Demo Cases

3 Demo Networks

Expected Impacts

How to be part?

What is this project about?



Main goal

Link the water sector to FIWARE, an open and license free smart solution platform:

- by showing the potential of its interoperable and standardized interfaces
- by demonstrating a series of complementary and exemplary paradigms (4 DC)
- by promoting an EU and global wide network of users (3DN + SMEs Challenges)

In fine: create the **Fiware4Water ecosystem** and prove its innovative potential (technical, social and business)

Useful for who?

- Wat. sector end-users: cities, wat. utilities, wat. authorities, citizens and consumers
- Solutions providers: private utilities, SMEs, developers

Concretely...

- Modular and open APIs will be built to address water management challenges, with a seamless integration with existing legacy systems
 - Technologies will be dev., tested and deployed (multiparameter sensors)
- A community of adopters will be created
- The potential of the Fiware4Water solution will be showcased

What is FIWARE?

FIWARE was funded by the EC (2011-2016) as a major flagship **PPP** to support SMEs and developers in creating **Next Generation of Internet** (NGI) services.

= the main ecosystem for **Smart Cities Initiatives** for cross-domain data exchange

Technology that is free, for all and ever



Curated framework of open source components
 Royalty-free Common Information Models
 Inclusive approach, lowering barriers to contribution
 Compelling Roadmap (blockchain, AI, robotics, ...)

A growing **Ecosystem** around the technology



“Powered by FIWARE” Solutions and Platforms
 “FIWARE-ready” Systems, IoT Devices
 FIWARE Services (consultancy, training, integration, support)
 FIWARE Marketplace website publishing validated offerings

A **Community** engaged in the success



Board of Directors (BoD) providing strategic direction
 Technical Steering Committee driving technical decisions
 Domain Committees where members setup collaborations
 Network of iHubs and Evangelists acting locally

A **Foundation** bringing support and doing for the common good

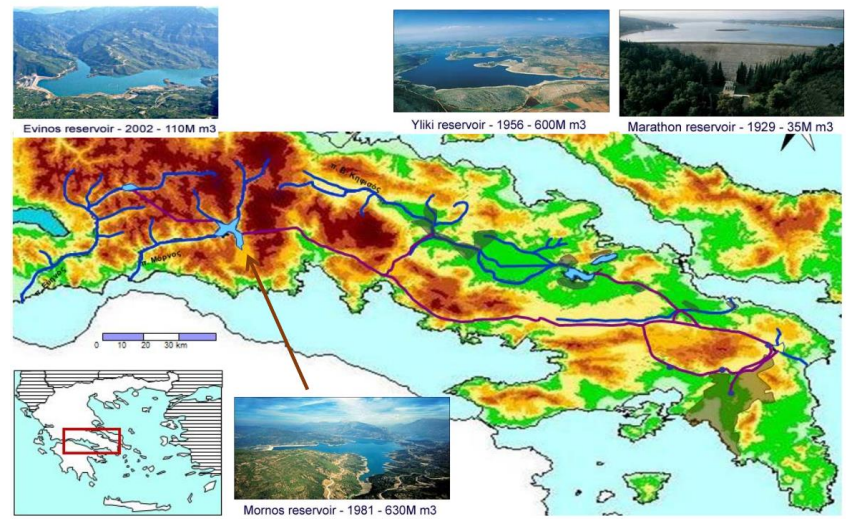


Protecting the Brand and compliance with Code of Conduct
 Augmenting global reach through relevant partnerships
 Empowering the Community bringing support to their activities
 Promoting FIWARE and recruiting new Community members
 Bring means for validating FIWARE technologies and offerings

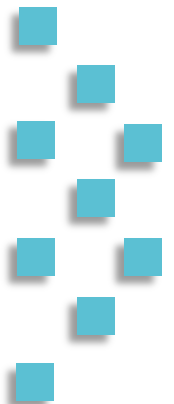
Real World Applications-*Tier 1*



DC#1: raw water supply optimization in Athens (GR)



DC#2: water distribution system management in Cannes (FR)



Real World Applications-*Tier 1*

DC#3: intelligent control of WWT in Amsterdam (NL)



DC#4: smart metering & citizen engagement in UK

Awareness raising-*Tier 2*



DN#1: municipalities

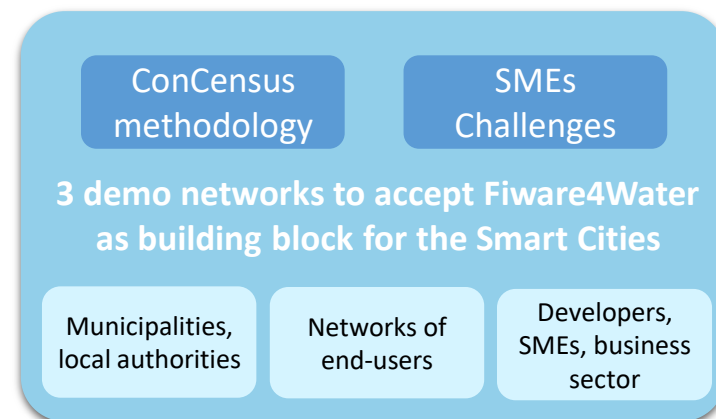
For the most promising markets: selection of the most relevant Fiware4Water solutions in the local context to be adopted and further developed (ConCensus).

DN#2: water authorities

Showcase the benefits of Fiware4Water smart applications and devices for managing water in an integrated way.

DN#3: technologies providers

Contribute to a rapid commercialization of those smart water management solutions through the Fiware4Water platform for smart water management



Expected impacts

EI#1: Interoperability of decision support systems through the identification and use of ICT/water vocabularies and **ontologies** in view of developing or improving ICT/water **standards**

EI#2: Improved decision making on water management, related risks and resource efficiency through increased **real-time** data

EI#3: Maximising return on investments through i) reduced operational costs for water utilities, ii) **improved performance** of water infrastructures, and iii) enhanced access to and interoperability of data

EI#4: Enhanced public **awareness** on water consumption and usage savings

EI#5: Market development of integrated and cyber-resilient ICT solutions and systems for smart water management, and opening up of a **digital single market** for water services

EI#6: Implementation of the **objectives of the EIP Water**, especially, reducing the environmental footprint of the main water-dependant activities and improve their resilience to climate changes and other environmental changes

How to join us?



@Fiware4Water



Fiware4Water

Website: www.fiware4water.eu

Be informed

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thank you

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