

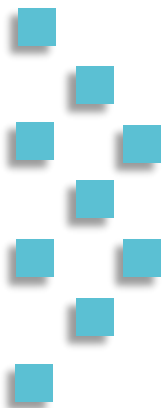


D3.6 Lessons learned and recommendations to the EC for future FIWARE smart applications

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Project Consortium



Executive Summary

This document contains the lessons learned and recommendations from the different technical activities related to the four demonstration cases of the Fiware4Water project (Greece, France, Netherlands, United Kingdom) developed within Work Package 3 (WP3). The four demo cases are related to various aspects and parts of the water cycle: Raw water supply, water distribution networks, wastewater treatment, and citizen engagement and water use.

The document reports the technical conclusions in four actions, as implemented in each demo case: (i) The sensor configuration, explaining the planning, installation setup, sensor network design, and how is the data being stored; (ii) The data analytics and modelling-related activities, explaining the motivation behind the analytics, how the data are used to create the models, and which actions were taken into account when implementing these kind of solutions; (iii) The visualization activities, which are different in each demo case, ranging from a single visualization interface to more complex solutions like a whole phone application. The chapter explains, in each case, the technology being used and how is the information presented to the end-user; (iv) All the smart applications developed within WP3 have been deployed using components from the FIWARE ecosystem, improving their legacy system into a fully operational data management platform. This last chapter explains which components are integrated and the followed data management strategy.

The European Added Value (EAV) of this report comes from different perspectives. Each demo case implemented a set of actions not only in a different part of the water cycle but also in another European country, where the water use differs for different reasons (social behaviour, climate, and more). These actions offer an overall vision in how to implement a set of smart applications for the overall water cycle in different locations. Furthermore, the steps needed for the adaptation of a legacy system to interact with new incoming data, intelligent predictive models, and data visualization interfaces, using the components from the FIWARE ecosystem, are explained in the four cases where the legacy systems have different architectures. Thus a good amount of examples is provided, on how to prepare already existing platforms (legacy systems) for the integration of innovative smart solutions.

Related Deliverables

D3.1, D3.2, D3.3, D3.4, D3.5 – Describing the development of the smart applications for the different demo cases.

D4.1, D4.2, D4.3, D4.4, D4.5 – Describing the deployment of the smart applications and their final use.

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List of Acronyms/Glossary

F4W	Fiware4Water project
NGI	Next Generation Internet <i>The Next Generation Internet (NGI) initiative, launched by the European Commission in the autumn of 2016, aims to shape the future internet as an interoperable platform ecosystem that embodies the values that Europe holds dear: openness, inclusivity, transparency, privacy, cooperation, and protection of data.</i>
WPL	Work Packages Leaders
WP	Work Package
CB	Context Broker
UI	User Interface
TF	Technical Functionality