Demo Case Update

From EYDAP – Athens Water Supply and Sewerage Company

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Constant monitoring of the external aqueduct system operation is crucial for EYDAP, in order to ensure and certify the excellent quality of water and services provided to the citizens of Athens. It also enables EYDAP to monitor and control water losses and be immediately alerted in case of an accident such as a landslide that could result in increased water turbidity or even damage to the network.

For this reason, state-of-the-art systems for the on-line monitoring of critical quantitative and qualitative parameters have been installed at crucial positions at the external aqueducts, that send real-time results, with the use of telemetry and timely notifications in case of extreme rates. Currently, the monitoring is performed via multiple installed sensors, controlled by SCADA: 13 water quality stations, 73 water level meters, 20 flowmeters, 38 water sluice gates, 34 pumping station.

In the context of Fiware4Water, data from the above sensors are used for the development of a water quantity routing application, providing (offline) what-if hydraulic scenario assessment for optimal water conveyance using real time data. However, a few more points were needed to be monitored to enhance the hydraulic model's accuracy. In this regard, in March 2020, EYDAP finalized the installation of 5 level meter stations at the demo part of the Company's water supply system (Giona – Dafnoula aqueduct). The data derived from the new meters will be integrated with the data from the existing operational meters. Subsequently, #FIWARE compliant analytics and models will be used to synthesise the information and provide operational decision support.

Figures 1 and 2. Pictures of the newly installed sensors

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Project Consortium

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