How water digital innovations can benefit to River Basin Organisations?
The on-going experience of Fiware4Water

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Setting the scene

How Fiware4Water platform can support RBOs?
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Fiware4Water objectives

- Build modular applications using **FIWARE System of Systems and open API architecture** for the real time management of water systems and ensuring the data interoperability.

- Demonstrate the **value of data sharing and data exchange standardization** across the whole value chain for improving decision making and operational management of water systems.

- Propose context aware cybersecurity mechanism compliant with **critical infrastructure protection**.

- Improve performance and interaction with the consumers, one of the main objectives of the **EIP Water SIP**[1].

Fiware4Water objectives

- Showcase the Fiware4Water solution and FIWARE compliant applications to demonstrate its potential as well as **ease of integration with existing legacy systems**.

- Demonstrate the socio-political value of FIWARE for Digital Water and the water sector and its capacity to support a full citizen engagement model (**ConCensus**[2]).

- **Develop a community of adopters**, around water compliant interfaces and data models that will demonstrate the usefulness and commercial value of FIWARE Solutions for the water sector.

- Contribute to the **creation of EU wide environment** for deployment of smart water systems, in a standardised licence or open source/free model as part of the movement towards the smart city of the future.

[2] https://www.sciencedirect.com/science/article/abs/pii/S0016328717301763

How RBOs can benefit from it?

- Fiware4Water will help the water industry to **become resource-efficient and smart** (better use of energy, avoid water losses and minimize the resources consumption).

- **Fiware4Water bridge the gap** between traditional water management, supply-side infrastructural projects and the future water management (focused on the demand-side).

- Fiware4Water Smart solutions will help to **manage limited water supplies efficiently**, balance rising demand with limited, and often variable, supplies.

- Digitalisation help communities become **more water-wise** by raising awareness and reduce water leakage with the consequent reduction in metered water and electricity bills.

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How RBOs can benefit from it?

- Digitalisation can **reduce water footprints and minimise environmental degradation** as well as increase the water for a healthy environment.

- Digitalisation can **reduce operational and management costs, energy use, and carbon emissions**, specially from treating less water and wastewater.

- Fiware4Water supports the **development of systems standards aligned with The Digital Water Action Plan from the European Commission**[3].

- Fiware4Water help to gravitate around **Context Data (Water facts)** which describes what is going on, where, when, why ...

- Fiware4Water avoids entry barriers or vendor lock-in through common smart data models and interoperable open standard interface (**ETSI NGSI-LD**[4]).

[3] https://ec.europa.eu/futurium/en/system/files/ged/ict4wateractionplan2018.pdf　　　　[4] https://www.etsi.org/committee/cim

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thank you

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