

A group of 5

DigitalWater2020 is composed of five European projects funded by the European Union's Horizon 2020 Research and Innovation programme. All these projects address digital water related issues

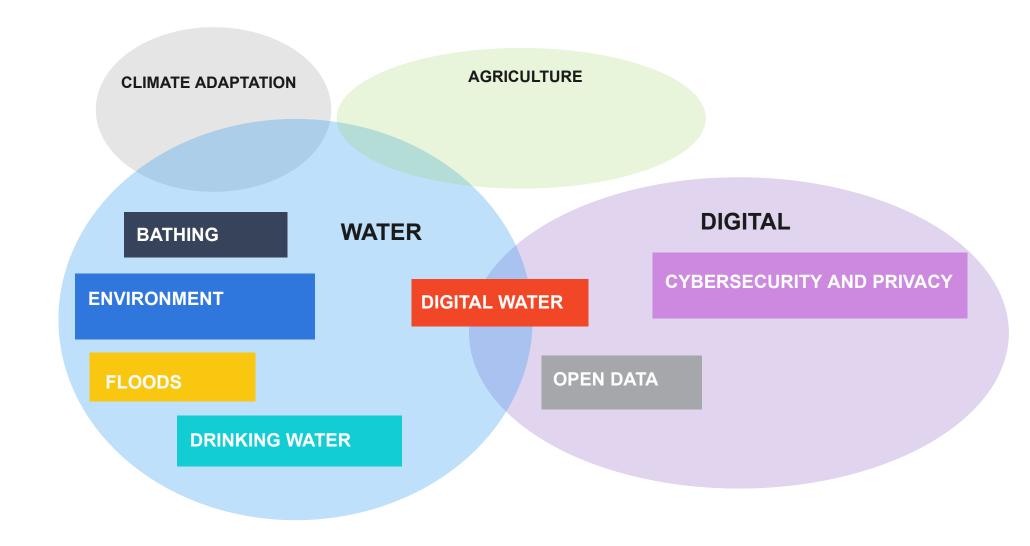












CLIMATE ADAPTATION

Climate adaptation measures

AGRICULTURE

Common Agricultural Policy Proposal 2018 for water reuse Regulation 2020 on min. req. for water reuse

Bathing water directive

Directive on env. quality standards Water framework directive Urban WW treatment directive

Floods directive 2007

Directive on protection of groundwater Quality of Water Directive 1998

WATER

Action Plan
Digital Single Market for Water Services

DIGITAL

Cybersecurity Strat. for the Digital Decade Network and information systems Directive GDPR

Directive 2003 on public access to env. info EU Inspire Directive Directive 2019 on open data

CLIMATE ADAPTATION

F4W/DWC: Measurement of GHG emission and energy consumption at WWTP

A3S/F4W/DWC/NAIADES: Digital applications for climate adaptation of utilities and energy optimization

water demand forecast and

WW treatment

F4W/NAIADES: Methodology and apps for raising awareness and education to water use and savings

DRINKING WATER

A3S/F4W: 3 new sensors for drinking water quality monitoring and Early Warning

F4W/A3S/NAIADES: Tools for identification of anomalies and leakages

All projects: All and advanced modelling tools applied to

water demand forecast and
raw water production, treatment and conveyance from different sources
predictive maintenance of drinking water wells

ENVIRONMENT

SENSORS

SW: environmental monitoring for legal compliance at major construction projects

A3S: new sensors for detection of possible threats (i.e. harmful substances on the water surface)

DWC: new sensors for monitoring CSO and illicit connections

MODELS AND DSS

SW: data driven predictive maintenance of sewer and stormwater networks

F4W/DWC: AI (Integrated) modelling and control strategies for sewer network and WWTP

NAIADES: Optimize urban watering

ENVIRONMENT

AWARENESS

F4W/NAIADES: Solutions for **raising awareness and education** to water use and savings

DWC: Augmented Reality for groundwater visualization and communication

A3S: Social media crawling: identify pollution sources and raise awareness

OPEN DATA

All projects: FIWARE deployment to foster **interoperability** and facilitate access to public information

F4W: Consensus protocol to co-create policies based on public access to environmental data

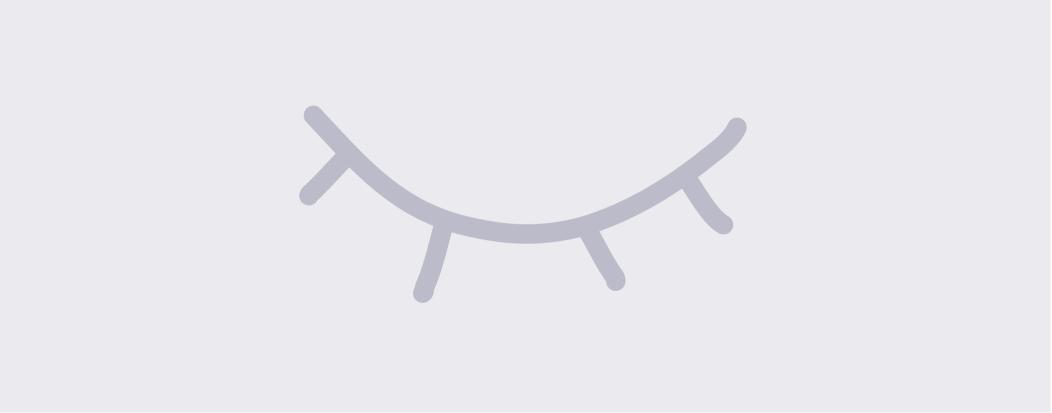
SCOREwater: Public engagement platform on urban water quality based on open data generated in the project

CYBERSECURITY AND DATA PRIVACY

DWC: New database for identification of risks and mitigation measures

NAIADES: Blockchain based data signature to protect data integrity

DWC: Stress testing for integration of new digital solutions in existing systems.





Hidden for now

