DIGITAL INTEGRATION

Beyond deploying these 15 individual solutions, digital-water.city seeks to integrate the development of these technologies within a dedicated guiding protocol that can cover existing gaps in three key areas:

GOVERNANCE AND PUBLIC INVOLVEMENT:

We want to improve inclusive decision-making in urban water management, citizens' quality of life and environmental awareness. So, we screen existing policies, governance frameworks and stakeholder networks.

CYBERSECURITY:

We provide services that are safe, trustworthy and secure and value data protection and privacy. That is why we ensure robust cybersecurity, interoperability and resiliency of our digital solutions.

MARKET UPTAKE:

Our communities of practice foster co-creation and innovation. We also provide dedicated business development support to innovators and create new spin-offs.

Interested to find out more? Dive into our digital solutions by visiting:

www.digital-water.city

Digital Water.City

Leading **urban water** management to its **digital future**.

A clean, safe water supply is essential for the health and wellbeing of all city-dwellers. And this supply depends on a robust and efficient water and sewage infrastructure. Every year, €45 billion is invested in this infrastructure across the European Union. To modernise and cope with climate change, this figure that will need to double over the next decade. Digital technologies will play a key role in ensuring our water systems can deliver for citizens throughout the 21st century.

digital-water.city develops and demonstrates 15 advanced digital solutions designed to lead urban water management to this future – from augmented reality, mobile technology and cloud computing, to sensors, real-time monitoring, artificial intelligence and predictive analytics.

3 objectives
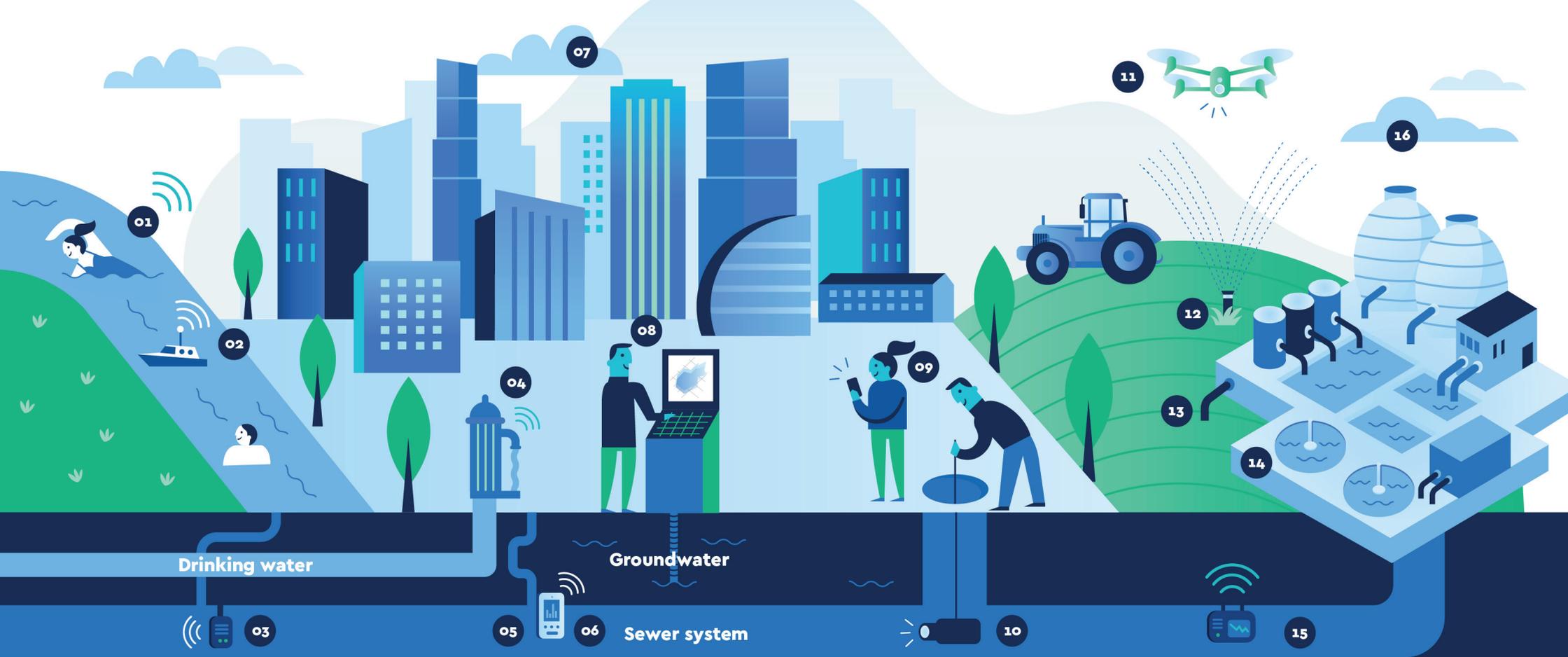
Health protection

Performance and return on investment

Public involvement

5 cities

digital-water.city is active in five European urban and peri-urban areas, serving over 30 million citizens.

Berlin   Copenhagen   Milan   Paris   Sofia

digital-water.city solutions

01 Machine-learning-based early warning system for bathing water quality

02 Sensors for real-time in situ e.coli and enterococci measurements

03 Low-cost temperature sensors for real-time combined sewer overflow (CSO) and flood monitoring

04 Mobile application for asset management of drinking water wells

05 DTS sensor for tracking illicit sewer connections

06 Sensors and smart analytics for tracking illicit sewer connections hotspots

07 WebGIS platform for improved decision making in water reuse

08 Augmented reality mobile application for groundwater visualisation

09 Serious game on the water reuse, carbon, energy, food and climatic nexus

10 Smart sewer cleaning system with HD camera and wireless communication

11 Active unmanned aerial vehicle for analysis of irrigation efficiency

12 Match-making tool between water demand for irrigation and safe water availability

13 Early warning system for safe reuse of treated wastewater for agricultural irrigation

14 Interoperable decision-support system (DSS) and real-time control algorithms for stormwater management

15 Sewer flow forecast toolbox

16 Web platform for integrated sewer and wastewater treatment plant control

Digital technologies

Artificial intelligence
01, 04, 13, 15

Smart sensors
02, 03, 05, 06, 11

Augmented reality
08

Cloud computing
01, 02, 03, 06, 07, 16

Decision-support systems
12, 14

Open data platforms
07, 16

Robotics
10

Mobile technology
01, 04, 08, 09, 12