

In urbanized areas, **river ecosystems constitute ecological corridors** between fragmented natural areas supporting a **wide biodiversity** and **multiple ecosystem services**, contributing to **improve the sustainability of cities**. Yet, these ecosystems are often **degraded** by lack of space, cuts of riparian vegetation, artificialization of the channels, imperviousness of the margins, water and air pollution, noise, excessive lights, among others. This degradation can lead to **numerous disservices to human populations and biodiversity losses**, and increase the probability of the **emergence of pathogens, lower disease resistance** of wildlife and humans, increasing the probability of **disease severity** and **epidemics**, as well as **diseases** associated to permanence in **stressful environments** found in cities, among others.

Against this background OneAquaHealth aims to **improve the sustainability and integrity of freshwater ecosystems in urban environments**. By investigating the interconnection of ecosystem health and human wellbeing, the project will identify **early warning indicators** and enhance **environmental monitoring with AI-assisted tools**. As a result, the project will support decision-makers in finding adequate and timely decisions as well as effective measures to restore aquatic ecosystems health and promote OneHealth.

OneAquaHealth Objectives



IDENTIFY the level of integrity of urban aquatic ecosystems.



DETERMINE adequate early warning indicators to assess ecosystem health and predict disease outbreak risks.



INTEGRATE live Earth observation data to monitor early warning indicators.



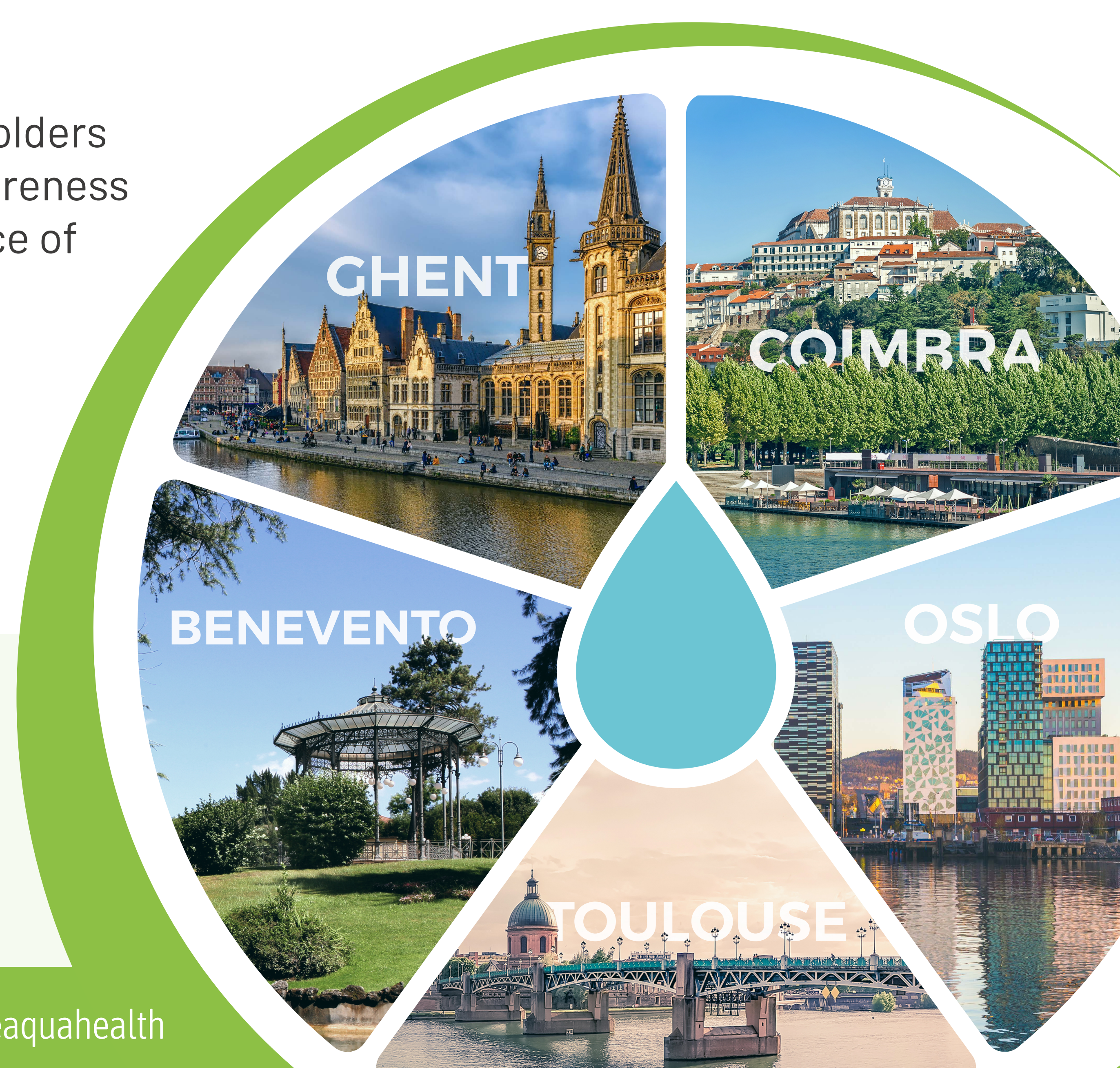
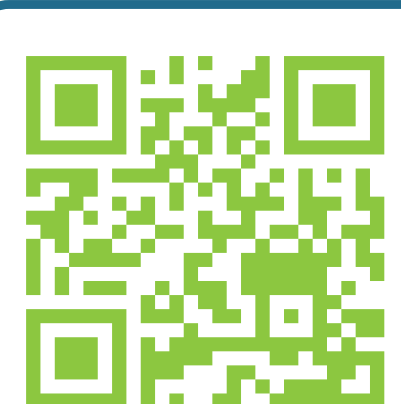
ENGAGE stakeholders raising their awareness to the importance of urban streams



DEVELOP a tool to allow the selection of measures to act upon early warnings and ensure environmental monitoring.

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