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PROJECT CONCEPT

The health of freshwater ecosystems and human health and wellbeing in urban contexts are highly interconnected. Improving results in one will result in the improvement of the other, reestablishing the balance between nature and humans.

Urban aquatic ecosystems are extremely relevant connectors between people, animals and plants, making cities more biodiverse and sustainable. Yet, these ecosystems are often confronted with lack of space, cuts of vegetation, artificialization, and other urbanisation processes. This degradation can lead to numerous disservices to humans in regard to emerging pathogens, decreasing disease resistance, climate change impacts and other health concerns in cities.

PROJECT OBJECTIVES

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.

More specifically the project AIMS to:



Understand the **LINKS** between the **HEALTH OF NATURE** and **AQUATIC ECOSYSTEMS** and **HUMAN HEALTH**.



Identify the **LEVEL OF INTEGRITY** of urban aquatic ecosystems for the maintenance of **HUMAN HEALTH** and wellbeing, **ANIMAL** and **PLANT HEALTH** and the **MITIGATION** of the **RISKS OF DISEASES** outbreak.



Determine **ENVIRONMENTAL PARAMETERS** for predicting **DISEASES OUTBREAK RISKS** related to aquatic ecosystem degradation, which may constitute **EARLY WARNING INDICATORS**.



Integrate live **EARTH OBSERVATION DATA** to monitoring early warning indicators.



Support decision-makers with a **TOOL** that allows the selection of measures to **ACT UPON EARLY WARNINGS**.



Engage stakeholders for **RISKS CONTRIBUTING TO** an **EARLY WARNING SYSTEM**.

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