

# Project Scope - Group 11

## Description

We are making a web application, intended to show the positions of all water fountains/water taps available in a given city (for instance Gothenburg). This will be done by creating a database with the water fountains, and connecting it to a map in a web page. For the MVP, mockup-stations will be added manually and focus will be to develop the web page and database, and later the possibility to use existing data from the government will be added, for example through json files. The project may also be extended to include a picture of the water station for a better user experience. Below, a visual representation is presented as to how it is approximately intended to look.

## Mock-up



## Relationship to SDGs

Information on the sustainable development goals (SDGs) has been gathered from the United Nations (n.d.). The following section will describe how relevant sub-targets relate to the project. Note, that 6.1 and 13.1 have the most importance to this context.

6.1 “By 2030, achieve universal and equitable access to safe and affordable drinking water for all.”

The project’s main purpose is to provide people with information about water fountains around a city, giving them access to free drinking water available for the public. Regarding safety, since the information is supplied by the city themselves, the water fountains should be safe.

13.1 “Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries”

By providing the general public with easier access to water people are less likely to be affected by heat and dehydration. This is very important due to the rising global temperatures and the increased frequency of extreme heats (World Meteorological Organization, 2023).

11.5 “By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations”

In case of extreme heat disasters/heat waves or water-related disasters, the information provided where there is free access to drinking water will save many people from being dehydrated and related health conditions. This is especially valuable for impoverished people, since the information will be provided online for free and the drinking-fountains are available to the public.

12.5 “By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse”

The website will reduce waste, specifically water bottle waste, by supplying information on where people can refill their bottles. The website will encourage people to drink water from these fountains, instead of purchasing a water bottle which will most likely be discarded after one use.

13.3 “Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning”

The website educates the public as to where to find water, and raises as such awareness on a topic relevant in adapting to climate change. By doing so, it helps in reducing dehydration caused by a warmer climate.

## Most challenging part

The part we think is most difficult is implementation and doing it in such a large group. This will motivate modularity so that we can do parallel work and communication to enable well-functioning cooperation.

## References

United Nations. (n.d). *THE 17 GOALS*. <https://sdgs.un.org/goals>

World Meteorological Organization. (2023, 21 September). *Climate change and heatwaves*. <https://wmo.int/content/climate-change-and-heatwaves>