# Access to Drinking Water 1

Presentation by: Ernest Tieku

Year: 2025



### **UN SDG 6: Clean Water and Sanitation**

Ensure availability and sustainable management of water and sanitation for all.

# UNITED NATIONS SDGs

#### **Overview**

The Sustainable Development Goals (SDGs) are an **ongoing global call to action** to end poverty, ensure **prosperity** and **peace** for all people, and **protect** our planet.

There are <u>17 goals</u> relating to poverty, health, education, basic services, inequality, climate, peace, and partnership.



# **About the Project**

- In this project, access to safe and affordable drinking water is investigated by focusing on inequalities in service levels between different countries and regions.
- Data from the WHO/UNICEF Joint Monitoring Programme for water supply, sanitation, and hygiene (JMP) is used.
- The data was analyzed using Google Sheets. Insights were gathered and questions answered regarding access to safe and affordable drinking water.

### **Data Overview**

The JMP dataset estimates household **access to drinking water services** between 2000 and 2020 to assess progress toward achieving the sixth SDG.

Estimates on the use of water (2000 – 2020)

#### Country or area

The specific country or area the values are estimated for.

#### Year

The specific year the values are estimated for.

#### **Population**

The estimated population size in thousands for the specific country and year.

#### % Urban

The estimated percentage share of the population living in urban areas.

#### Service levels

The estimated national, rural, and urban percentage share of a specific level of access to drinking water services.

## **Data Overview**

The dataset uses **service ladders** to benchmark and compare **access to drinking water** across different countries. The ladder defines five different service levels.

| Service level  | Definition  |
|----------------|---|
| Safely managed | Drinking water from an improved source that is <b>accessible on premises</b> , available when needed, and <b>free from</b> fecal and priority chemical <b>contamination</b> . |
| Basic          | Drinking water from an improved source, provided <b>collection time is not more than 30 minutes</b> for a round trip, including queue time.                                   |
| Limited        | Drinking water from an improved source, for which <b>collection time exceeds 30 minutes</b> for a round trip, including queue time.   |
| Unimproved     | Drinking water from an <b>unprotected</b> dug <b>well</b> or unprotected <b>spring</b> .  |
| Surface water  | Drinking water <b>directly from</b> a river, dam, lake, pond, stream, canal, or irrigation canal.   |

# What to do

There are **two parts** to this integrated project. You need to import and clean data, create new features and visualizations, interpret the results, and answer the multiple-choice questions.

#### In part one, we'll answer questions like:

- How do the world population estimates compare to the provided dataset populations?
- How does the urban population share compare to the rural population?
- What is the tendency and spread of the different water access features?
- How do these measures of water access compare across different types of areas?
- What does the national access to water look like based on national population size?
- What does urban access to water look like based on urban population size?
- What does the rural access look like?
- What is the effect of national population size and urbanization on GNI and water access?