

## Project Title: Clean Water and Sanitation Analytics

Focusing on SDG 6: Clean Water and Sanitation, this project aims to analyze and visualize data to improve access to clean water and sanitation globally.





### Project Overview

1 Objective

To analyze and visualize data related to SDG 6, aiming to improve access to clean water and sanitation.

Scope

Data-driven insights on water quality, access, and sanitation facilities, with a focus on specific regions or global trends.



### SDG 6 Alignment

### SDG 6 Goals

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

#### Relevance

Addressing global water crises, promoting equitable access, and enhancing sanitation infrastructure.

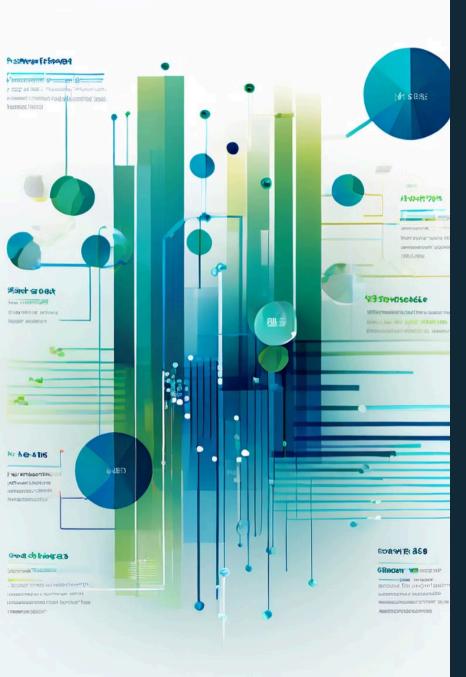
### Problem Definition

#### The Problem

Insufficient access to clean water and sanitation in many regions, leading to health issues and socio-economic disparities.

#### Significance

Understanding and addressing these issues is crucial for improving public health, reducing poverty, and promoting sustainable development.



### Database Design

Overview

Relational database designed to store and manage SDG 6-related data.

Key Tables

Water Quality, Access, and Infrastructure.

3 Purpose

Support efficient data analysis and reporting for improved decision-making.



### Database Schema

### Visual Diagram

Presents the schema with tables, relationships, and key fields.

### Explanation

Highlights how the schema supports efficient data analysis and reporting.









### Key Data Analysis Insights

\_\_\_\_ Insight 1

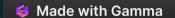
Regions with the highest water contamination rates.

Insight 2

Correlation between sanitation infrastructure investment and health outcomes.

3 \_\_\_\_ Insight 3

Trends in access to clean water over the past decade.



# Excel Dashboard Overview

#### Components

Overview of the dashboard, including key visualizations like charts, tables, and interactive elements.

### Purpose

Designed to provide a clear, actionable overview of SDG 6 data, enabling stakeholders to make informed decisions.



## Excel Dashboard Demonstration



#### **Filters**

Allows users to customize data views and focus on specific regions or metrics.



#### Visualizations

Presents data insights through interactive charts, graphs, and tables.



#### Data Refresh

Enables users to keep the dashboard up-to-date with the latest available data.



### Conclusion and Next Steps

### Summary

Recap the project's impact on understanding and addressing SDG 6 challenges.

### **Next Steps**

Suggestions for further analysis, potential improvements to the database, and ways to expand the dashboard's capabilities.



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