#### **SDG Selection:**

**Sustainable Development Goal (SDG) 6: Clean Water and Sanitation**

**Description:** SDG 6 aims to ensure availability and sustainable management of water and sanitation for all. Access to clean water is fundamental for health, survival, and well-being. In many regions, particularly rural areas, access to clean drinking water remains a significant challenge.

**Chosen Specific Problem:** Lack of access to clean drinking water in rural areas.

#### **2. Problem Definition:**

**Problem Statement:** Many rural areas suffer from inadequate access to clean drinking water, resulting in severe health issues, economic burdens, and decreased quality of life. This project focuses on assessing the distribution and availability of water resources across different regions, identifying areas with the most critical needs, and proposing actionable strategies to improve water access.

**Objectives:**

1. Assess the current distribution of water sources in rural areas.
2. Identify regions with the highest percentage of the population lacking access to clean water.
3. Analyze operational status of water sources and their impact on access to clean water.
4. Provide recommendations based on data analysis to improve water resource management and accessibility.