**SDG Problem Definition**

**Part 1- SDG selection and problem definition**

Water is essential for life, yet billions of people worldwide lack access to safe drinking water and adequate sanitation.. By intoducing the Clean Water and Sanitation as suistanable development goal (SDG) that focuses on ensuring availability and sustainable management of water and sanitation for all, we emphasizes the importance of clean water not only for personal health but also for the environment and economic development. sAchieving this goal is vital for improving global health outcomes, reducing poverty, and promoting sustainable development.

In that case , we find that One of the significant challenges under Clean Water and Sanitation as an SDG is the lack of access to clean drinking water in rural communities. Rural people frequently depend on tainted sources of water due to poor water infrastructure in various parts of the world. The difficulty these people have in obtaining dependable and safe water supplies is made worse by elements including poverty, remote location, and climate change. There are serious health consequences since waterborne infections lead to high death rates, particularly in youngsters, hence  to solve the issue, a data-driven strategy is needed to pinpoint the most impacted regions, comprehend the underlying reasons, and create focused interventions that would increase access to clean water.