**Problem definition:**

* The project involves analysing water quality data to assess the suitability of water for specific purposes, such as drinking.
* The objective is to identify potential issues or deviations from regulatory standards and determine water potability based on various parameters.
* This project includes defining analysis objectives, collecting water quality data, designing relevant visualizations, and building a predictive model.
* Here I understand in our world only 3 percent of water is only pure so before drinking we have check the water is pure or not then only we can avoid many disease like dengue, malaria, etc .
* So we have a solution to solve these problem to minimise the cause and effect our analysis help to our nearby water resources is pure or not in our world so many industries are developed discard waste into water resources so here, also many disadvantages
* Our analysis work on identifying the impurity level to drink the water to live

**Design thinking:**

* **Analysis Objectives:**

Define specific objectives for analysing water quality data, including assessing potability, identifying deviations from standards, and understanding parameter relationships.

* **Data Collection:**

Gather the provided water quality data containing parameters like pH,Hardness, Solids, etc.

* **Visualization Strategy:**

Plan how to visualize parameter distributions, correlations, and potability using suitable tools.(cognos)

* **Predictive Modelling:**

Decide on the machine learning algorithms and features to use for predicting water potability.

* **Conclusion:**

And finally we give a wonderful dashboard with some visualization to easily understand the quality of water.