Industries that use water as

where irrigation water must be

neither too saline nor contain

their resource. Agriculture

toxic materials, common

people to avoid health

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

1. CUSTOMER SEGMENT(S)

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fit into

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Identify

strong

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CS

6. CUSTOMER CONSTRAINTS Lack of budget in rural areas where water quality analysis

practices. Need for real time monitoring. quicker and inexpensive methods for industrial needs.

is required for agricultural

5. AVAILABLE SOLUTIONS

Water quality has been conventionally estimated through lab and statistical analysis which require sample collection, transport to labs, and a considerable amount of time and calculation which is expensive and time consuming.

2. JOBS-TO-BE-DONE / PROBLEMS

hazards.

J&P

9. PROBLEM ROOT CAUSE

RC

CC

7. BEHAVIOUR

- Use supervised machine learning for the efficient prediction of water quality in real-time.
- Quicker and cheaper compared to lab analysis.

- Rapid industrialization has led to deterioration of water quality
- Poor water quality has been linked to many diseases.
- Water is one of the most communicable mediums.

BE

- To know if the water meets the standards of the industrial process, they collect the sample, transport to lab and analyse the data.
- The proposed solution will incorporate machine learning algorithms to estimate the water quality.

3. TRIGGERS

TR

As reported, in developing countries, 80% of the diseases are water borne diseases, which have led to 5 million deaths and 2.5 billion illnesses.

10. YOUR SOLUTION



Use machine learning algorithms to estimate the water quality index (WQI), which is a singular index to describe the general quality of water.

The proposed solution will achieve reasonable accuracy with minimum number of parameters which will validate its possible application in real time water quality detection system.

8.CHANNELS of BEHAVIOUR



- Online: Smart water quality monitoring system using IoT are hence required to automatically monitor various parameters that determine quality parameters that determine the quality of water in real time from remote locations.
- Offline: Manual chemical water quality testing methods usually done in labs.

4. EMOTIONS: BEFORE / AFTER



• Fear of health hazards concern over crop yield due to use of pollutant water