

Project Title: Efficient water Quality analysis and prediction using Machine learning.
Project Design Phase-I - Solution Fit Template

Team ID: PNT2022TMID52625

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) Who is your customer? <div>CS</div> <ol style="list-style-type: none">1. Individuals2. Farmers3. Industrialist	6. CUSTOMER CONSTRAINTS What constraints prevent your customers from taking action or limit their choices. <div>CC</div> <ol style="list-style-type: none">1. Unaware of water suspended particles.2. Lack of knowledge on scientific methods to measure water quality.3. Lack of efficient water Quality measure technique.	5. AVAILABLE SOLUTIONS Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? <div>AS</div> <p>Reverse osmosis filters. Copper filters.</p> <p>PROS:</p> <ol style="list-style-type: none">1. Removes harmful water suspended particles.2. Removes salinity. <p>CONS:</p> <ol style="list-style-type: none">1. High maintenance cost.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE/COMPLETED Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. <div>J&P</div> <ol style="list-style-type: none">1. To analyze and predict the water Quality using scientific metrics.2. Awareness on scientific method to measure water Quality.	9. PROBLEM ROOT CAUSE What is the real reason that this problem exists? What is the back story behind the need to do this job? <div>RC</div> <ol style="list-style-type: none">1. Water pollution.2. Dumping of hazardous Industrial chemicals(waste) into river waters.	7. BEHAVIOUR What does your customer do to address the problem and get the job done? <div>BE</div> <ol style="list-style-type: none">1. Installing RO systems.2. Installing Copper filters.3. Bleaching the water stored in tanks.	
Focus on J&P, tap into BE, understand RC				Focus on J&P, tap into BE, understand RC

TR

Fear of water borne disease and frustration due to health issues.

EM

1. Frustration and Stress.
- 2 .Fear of water borne diseases.

1. Happy and Secure.
2. Healthy life.

SL

CH

1. Browsing the web to learn about the techniques to measure water Quality.
2. Learning about hazardous water suspended particles.

1. Installing Ro systems.
2. Drinking boiling water.