

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

Team ID: PNT2022TMID

Define CS, fit into CC	<div>1. CUSTOMER SEGMENT(S)<div>Who is your customer?<div>CS</div></div></div> <div>1) Farmers</div> <div>2) Elderly people, infants (individuals)</div> <div>3) School, College, Hospital etc..</div>	<div>6. CUSTOMER CONSTRAINTS<div>What constraints prevent your customers from taking action or limiting their choices?<div>CC</div></div></div> <div>1)Requires high-quality and efficient water quality analysis at a low price.</div> <div>2)Unawareness of the new advanced water quality methods.</div>	<div>5. AVAILABLE SOLUTIONS<div>Which solutions are available to the customers when they face a 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></div></div> <div>1)Ozone treatment</div> <div>2)Reverse Osmosis</div> <div>3) Chlorine Treatment</div> <div>Pros:<div>Provides water without harmful microorganisms and unwanted minerals.</div></div> <div>Cons:<div>It is not cost-effective and requires regular maintenance.</div></div>	Explore AS, differentiate
	<div>2. JOBS-TO-BE-DONE/COMPLETED<div>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></div></div> <div>1)To analyze and predict the Water Quality.</div> <div>2)The dataset is updated regularly.</div>	<div>9. PROBLEM ROOT CAUSE<div>What is the real reason that this problem exists? What is the back story behind the need to do this job?<div>RC</div></div></div> <div>1)Individuals' lack of awareness</div> <div>2) Requires that the machine and water storage devices be properly maintained.</div>	<div>7. BEHAVIOUR<div>What does your customer do to address the problem and get the job done?<div>BE</div></div></div> <div>1) Convenience, flexibility, and service</div> <div>2) Consider the project's budget.</div> <div>3) Determine the precision of the water quality</div>	
Focus on J&P, tap into BE, understand RC				Focus on J&P, tap into BE, understand RC

<div><div>3. TRIGGERS</div><div>What triggers customers to act?</div><div>Advertising and educating the people about the importance of water quality for good health.</div></div>	<div><div>10. YOUR SOLUTION</div><div></div><div>Gathering data from many water bodies for the analysis.Our solution incorporates machine learning to find the water quality analysis and give the user more precise findings and some analysis to predict the outcome and generate the outcome.</div></div>	<div><div>8. CHANNELS OF BEHAVIOUR</div><div>8.1 ONLINE</div><div>What kind of actions do customers take online?</div><div>The consumer carefully reads the information and descriptions when making purchases, and they figure out the overall cost, taxes, services, and other costs.</div><div>8.2 OFFLINE</div><div>What kind of actions do customers take offline?</div><div>1)Consuming filtered water</div><div>2)Installing a reverse osmosis system</div></div>
<div><div>4. EMOTIONS: BEFORE / AFTER</div><div>How do customers feel when they face a problem or a job afterward?</div><div>Before:</div><div>1) Because the consumer consumes impure water, he is concerned about his health.</div><div>After:</div><div>2. Customers feel that by drinking our project's high-quality water, they are protecting their health.</div></div>		