

Project Design Phase-I

Problem – Solution Fit Template

Date	1 October 2022
Team ID	PNT2022TMID49552
Project Name	Real-Time River Water Quality Monitoring And Control System
Maximum Marks	2 Marks

Problem-Solution fit canvas 2.0
Purpose / Vision

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Who is your customer? 1. The customer, who use the river water for daily usage. For example, people, animals and birds.	6. CUSTOMER CC What constraints prevent your customer from taking action or limit their choices of solutions? (i.e. spending power, budget, no cash, network connection, available devices) 1. The head office should monitor the surrounding of River water weekly once.	5. AVAILABLE SOLUTIONS AS Which solutions are available to the customer 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? (i.e. pros and cons to an alternative to digital monitoring) 1. The solution is to avoid the mixing of industrial waste. Pros: Provide water for drinking. Cons: Health issues.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE/ PROBLEMS J&P Which jobs-to-be-done (or problems) do you address for your customer? There could be more than one, explore different sides. 1. To identify the water quality. 2. Chemical waste sometimes discharged into river.	9. PROBLEM ROOT CAUSE RC What is the real reason that this problem exists? What is the backstory behind the need to do this job? (i.e. customers have to do it because of the change in regulations) 1. The major problem is the industrial waste and chemical Waste mixing into the river. In earlier the people use more land for decompose the Industrial waste so, it cause land pollution.	7. BEHAVIOUR BE What does your customer do to address the problem and get the job done? (i.e. directly related: find the right solar panel supplier, calculate usage and benefits; indirectly associated: customers spend less time on volunteering work (i.e. Greenpeace)) 1. Identify the problems. 2. Monitoring and controlling. Each customer should implement more solution to overcome the problem.	
Identify strong TR & EM	3. TRIGGERS TR What triggers customer to act? (i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news) 1. Give awareness for monitoring the water quality To the people.	10. YOUR SOLUTION SL If you are working on an existing business, write down your current solution that fill in the gaps, and check how much it fits to reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour. 1. People should dispose the hazardous products. 2. Recycle the river water weekly once.	8. CHANNELS of BEHAVIOUR CH 8.1. ONLINE What kind of actions do customers take online? Extract online channels from >? Identify the gems by using the pixel scanning app. 8.2. OFFLINE What kind of actions do customers take offline? Extract offline channels from >? and use them for customer development By using the smart sensor, the PH level of river water is identify.	Extract online & offline CH of BE
	4. EMOTIONS: BEFORE/ AFTER EM How do customers feel when they face a problem in a job and afterwards do? (i.e. feel, insecure > confident, in control- use it to your communication strategy & design) 1. People often worries about their next generation because of Polluted surrounding. After facing the problems the people are finding hard to maintain The clean river.			