

# PROBLEM SOLUTION

Date	29.10.2022
Team Id	PNT2022TMID42646
Project Name	Project – Smart Farmer-IoT enabled smart farming application
Maximum Marks	2 Marks

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <small>Who is your customer? i.e. working parents of 0-5 y.o. kids</small>  Farmers are our Customers.	<b>6. CUSTOMER CONSTRAINTS</b> <small>What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices</small>  The availability of device, proper Network facilities and budget are several constraints. Knowledge about the application.	<b>5. AVAILABLE SOLUTIONS</b> <small>Which solutions are available to the customers when they face the problem? Do they need to get the job done? What have they tried in the past? What price &amp; were do these solutions have? i.e. pen and paper is an alternative to digital marketing</small>  Most commonly used irrigation type is Drip irrigation the most common disadvantage is when the water is not filtered properly there will be clogs and the tubes will get affected easily. In smart farming we can use solar empowered smart irrigation system to overcome this.	Explore AS, differentiate
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <small>Which jobs-to-be-done (or problems) do you address for your customer? There could be more than one, explore different sides</small>  To make farming easier more quantitatively.  1. Monitoring farms climatic conditions. 2. Automatic systems for irrigation and Fertilization. 3. Soil analysis.	<b>9. PROBLEM ROOT CAUSE</b> <small>What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations</small>  When there is no knowledge about the soil problem arises on what to be sowed, climatic conditions also play a major role. Knowledge on how to water the plants accordingly	<b>7. BEHAVIOUR</b> <small>What does your customer do to address the problem and get the job done? i.e. Directly related: find the right solar panel installer, calculate range and benefits, indirectly associated: customers spend time on collaborating with i.e. (dis)empower</small>  The customers will reach us when they dont have idea on how to analyse the soil and to improve the current irrigation system	
Focus on J&P, map into BE, understand BC	<b>3. TRIGGERS</b> <small>What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news</small>  To get correct accuracy on what to be done on the farm and to produce more crops and livestock quantitatively.	<b>10. YOUR SOLUTION</b> <small>If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits 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</small>  There will be less weed growth, Maximum use of water efficiently, Control of soil erosion and maximum crop yield.	<b>8. CHANNELS of BEHAVIOUR</b> <b>8.1 ONLINE</b> <small>What kind of actions do customers take online? Extract online channels from #7</small>  <b>8.2 OFFLINE</b> <small>What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development</small>  we will reach the customer directly ask about their problems and provide effective solutions if their problems match our application and provide them knowledge about our application to make their farming even more easier  In online mode we'll do digital marketing using advertisements.	Focus on J&P, map into BE, understand BC
	<b>4. EMOTIONS: BEFORE / AFTER</b> <small>How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure - confident, in control - used to your communication strategy &amp; design</small>  As when the productivity increases farmers will be satisfied. They will not worry about the loss. Irrigation will be more efficient than before.	<b>10. YOUR SOLUTION</b> <small>If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits 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</small>  There will be less weed growth, Maximum use of water efficiently, Control of soil erosion and maximum crop yield.	<b>8. CHANNELS of BEHAVIOUR</b> <b>8.1 ONLINE</b> <small>What kind of actions do customers take online? Extract online channels from #7</small>  <b>8.2 OFFLINE</b> <small>What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development</small>  we will reach the customer directly ask about their problems and provide effective solutions if their problems match our application and provide them knowledge about our application to make their farming even more easier  In online mode we'll do digital marketing using advertisements.	
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