

Project Design Phase-I

Problem Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID32605
Project Name	IoT based smart crop protection system for agriculture

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS	6. CUSTOMER LIMITATIONS <small>EG. BUDGET, DEVICES</small> CL	5. AVAILABLE SOLUTIONS <small>PLUSES & MINUSES</small> AS	Explore AS, differentiate
	Farmer's ! Who's not near his field	1)High adoption costs , security concerns. 2)Not aware of the implementation of IoT in agriculture and it may gets damaged by animals	Monitor different parameters and mobile or web application make easily to farm the crop field and easy to track of animals	
Focus on PR, tap into BE, understand RC	2. PROBLEMS / PAINS + ITS FREQUENCY PR	9. PROBLEM ROOT / CAUSE RC	7. BEHAVIOR + ITS INTENSITY BE	Focus on PR, tap into BE, understand RC
	<ul style="list-style-type: none"> It's difficult to monitor and control Ain't known if the application doesn't work properly. Doesn't have knowledge about this concepts 	1)If temperature ,PH level ,humidity & light intensity makes the serious cause for the environment. 2)Farming done near the forest areas inturn increase the rate of animals intrusion	Direct related: Tries to find a solution to prevent this problem Indirect related: Located in rural where internet connectivity might not be strong enough to facilitate fast transmission speeds.	
Identify strong TR & EM	3. TRIGGERS TO ACT TR	10. YOUR SOLUTION SL	8. CHANNELS of BEHAVIOR CH	Extract online & offline CH of BE
	Create opportunities to lift people out of poverty in rural side and introduce new technology to them		ONLINE: The Data send through application for the farmers know about the farms and animal intrusion intime	
	4. EMOTIONS <small>BEFORE / AFTER</small> EM			
	BEFORE: Finances, Heavy work overload and conflict in relationship. AFTER: It will easier to make more yield in	<i>"IoT based Smart crop protection system for agriculture" !!</i> It help farmers grow more food on less land by protection crops from pests, diseases and weeds as well as raising productivity per hectare and also it avoids animals to destroy the crops	OFFLINE: The control action is taken by the farmers to monitor the farms and provide proper fencing for securing the crops	