

Project Design Phase-I

Problem Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID04063
Project Name	IoT based smart crop protection system for agriculture

Define CS, fit into CL	1. CUSTOMER SEGMENT(S)	CS	6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES	CL	5. AVAILABLE SOLUTIONS PLUSES & MINUSES	AS	Explore AS, differentiate
	Farmers are the customers		<ul style="list-style-type: none"> 1) High adoption costs , security concerns. 2) Not aware of the implementation of IoT in agriculture. 		Monitor different parameters and mobile or web application make easily to farm the crop field .		
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"> 1) It's difficult to monitor and control 2) Ain't known if the application doesn't work properly. 		<ul style="list-style-type: none"> 1) If temperature ,PH level ,humidity & light intensity makes the serious cause for the environment. 2) Farmer affected by less productivity which will affect in their profit. 		<p>Direct related: Tries to find a solution to prevent this problem</p> <p>Indirect related: Located in rural where internet connectivity might not be strong enough to facilitate fast transmission speeds.</p>		
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 developing nations. (Over 60%)		<p>"IoT based Smart crop protection system for agriculture" !!</p> <p>It help farmers grow more food on less land by protection crops from pests, diseases and weeds as well as raising productivity per hectare.</p>		<p>ONLINE: The Data send through application for the farmers to know about the farms.</p> <p>OFFLINE: The control action is taken by the farmers to monitor the farms.</p>		