

Project Design Phase-I

Problem Solution Fit

Date	06 October 2022
Team ID	PNT2022TMID34135
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
	<div style="border: 1px solid black; padding: 5px;"> <p>Farmer's ! Who's not near his field</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>1)High adoption costs , security concerns. 2)Not aware of the implementation of IoT in agriculture.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>Monitor different parameters and mobile or web application make easily to farm the crop field .</p> </div>	
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
	<div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> It's difficult to monitor and control Ain't known if the application doesn't work properly. </div>	<div style="border: 1px solid black; padding: 5px;"> <p>1)If temperature ,PH level ,humidity & light intensity makes the serious cause for the environment.</p> <p>2)Farmer affected by less productivity which will affect in their profit.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <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> </div>	
Identify strong TR & EM	3. TRIGGERS TO ACT TR	10. YOUR SOLUTION SL	8. CHANNELS of BEHAVIOR CH	Extract online & offline CH of BE
	<div style="border: 1px solid black; padding: 5px;"> <p>Create opportunities to lift people out of poverty in developing nations. (Over 60%)</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p><i>"IoT based Smart crop protection system for agriculture" !!</i></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> </div>	
	4. EMOTIONS <small>BEFORE / AFTER</small> EM			
	<div style="border: 1px solid black; padding: 5px;"> <p>BEFORE: Finances, Heavy work overload and conflict in relationship.</p> <p>AFTER: It will easier to make more</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p>OFFLINE: The control action is taken by the farmers to monitor the farms.</p> </div>	