Project Design Phase-I

Problem Solution Fit

Date	03 October 2022
Team ID	PNT2022TMID08179
Project Name	Estimate the Crop yield Using Data Analytics

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
	Farmer's! Who's not near his field in corporate, SME and farmer.	1) High adoption costs, security concerns. 2) Not aware of the implementation of agriculture. 3) Use it according to the climate change	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
	• Control system of the mechanism is difficult • Ain't known if the application doesn't work properly.	If temperature, PH level, humidity & light intensity makes the serious cause for the environment.	Located in rural where internet connectivity might not be strong enough to facilitate fast transmission speeds. The customer will give the proper products in the crop.	

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. Smart farming reduces the ecological footprint	**"Data Analytics based Smart crop protection systemfor agriculture"** It help farmers grow more food on less land by protection crops from pests, diseases and weeds as well as raising productivity per hectare. the sensors and drones sensed informationfrom field and protect the crop.	**ONLINE:** The Data send through application and sensor data will send to the farmer.	
	4. EMOTIONS BEFORE / AFTER EM		**OFFLINE**: The control action is taken by the farmers to monitor the farms. throughthe immediate reaction.	
	BEFORE: Finances, Heavy work overload and conflict in relationship. **AFTER**: people get more info about crop protection make easy to yield.			