Project Title: IoT Based Smart Crop Protection System for Agriculture

Project Design Phase-I - Solution Fit

Team ID: PNT2022TMID38327

blem-Solution Fit canvas	IOT based Smart Crop P	Totection for Agriculture
1. CUSTOMER SEGMENT(S)	6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES CL	5. AVAILABLE SOLUTIONS PLUSES & MINUSES
Our customers are farmers who are affected by damage of crops due to various reasons like insect attacks, animal invasion, Excess water flow, etc.	Customer must have minimum knowledge about using the technology.	Complete control and elimination of yield-threatening weeds Protection from diseases for healthier farm outpu Protection from insects for high yields and quality
2. PROBLEMS / PAINS + ITS FREQUENCY	9. PROBLEM ROOT / CAUSE RC	7. BEHAVIOR + ITS INTENSITY
Major problems farmers face is crops being damaged by insects, animals, water and various	- Sense the animals and insects in the crop field Sense the water required for the crop Sense the required climate for the crop.	Crop protector informs customer about the cro from being damaged by insect, animal, exces water flow, climatic changes, etc.
climatic changes.		
3. TRIGGERS TO ACT	10. YOUR SOLUTION SL	8. CHANNELS of BEHAVIOR
This triggers to protect the crops from insects, animals, excess water, climatic changes, unwanted plant growth etc.	The aim of the proposed work is to develop an IoT device for smart crop field monitoring system and automated irrigation system using the wireless sensor networks (WSN).To create an IoT device for monitoring	Notifies the customer about the crops being damaged
4. EMOTIONS BEFORE / AFTER Before there is no technology to protect the crop from insects, animals, excess water, climatic changes unwanted plant growth, etc, so many farmers committed suicides.	the level of soil moisture with the threshold value.	OFFLINE Senses the crops