Project Design Phase-I
Problem Solution Fit

Date	10October2022
TeamID	PNT2022TMID36855
ProjectName	IOT Based Smart Crop Protection System for Agriculture

Problem-Solution fit canvas 2.0

Purpose/Vision

DefineCS,fitintoCC

1.CUSTOMERSEGMENT(S) CS

All Category people (corporate, SME, and farmer).

6.CUSTOMER CC

The most common challenge for the Internet of Things in agriculture is connectivity. Every area doesn't have proper internet connectivity.

The second most common challenge for Internet of Things based Advanced Farming is the lack of awareness among consumers.

5.AVAILABLESOLUTIONS AS

Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture, etc.) and automation of irrigation systems.

ExploreAS,differentiate

Focus onJ&P,tapintoBE,understandRC

2.JOBS-TO-BE-DONE/PROBLEMS J&P

We have to create a monitoring the crop field with the help of sensors (light, humidity, temperature, soil moisture, crop health, etc.) and automating the irrigation system.

9.PROBLEMROOTCAUSE RC

Animals such as wild pigs, rabbits, moles, elephants, monkeys, and many others may cause serious damage to crops. They can damage the plants by feeding on plant parts or simply by running over the field and trampling over the crop fields.

7.BEHAVIOUR BE

They get the idea for their field to create a monitoring system. So that they can take further steps for creating a monitoring the crop field with the help of sensors and automating the irrigation system.

Focus onJ&P,tapintoBE,understandRC

IdentifystrongTR&EM

3.TRIGGERS TR

When the customer planning to buy due to various service providers, it becomes really difficult to maintain interoperability between different IOT systems.

4.EMOTIONS:BEFORE/AFTER EM

Before: Customer will be in dilemma of predicting the price based on area.
After: Gets some clarity and satisfaction on his search.

10.YOUR SOLUTION SL

Further with the help of these sensors, farmers can monitor the field conditions from anywhere. Internet of Things based Advanced Farming is highly efficient when compared with the conventional approach. etc

8. CHANNELSofBEHAVIOUR CH

Online
Farmers or land owners has to enter the features for their field and get the crop field with the help of sensors for monitoring.

ExtractonlineOfflineCHofBE