Problem-Solution fit canvas 2.0

Purpose / Vision

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

IoT-based smart farming is a network typically designed with sensors (light, humidity, temperature, soil moisture, etc.) to monitor the crop field and automate farming activities. The farmers are able to track the conditions in the field from anywhere.

6. CUSTOMER CONSTRAINTS CC

These devices have no idea about the security and they don't have enough resources to handle extra functionalities and protocols.

5. AVAILABLE SOLUTIONS AS

We using ARDUINO, so the farmers get alarm when the animals are crossed .

ADVANTAGE

With the implementation of IoT in agriculture, processes are managed more effectively in the field. With the aid of sensors, for example, it is possible to monitor soil quality, humidity, temperature, automate the irrigation process, and others.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

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

Crops in farms are many times ravaged by local animals like buffaloes, cows, goats, birds, and fire etc. This leads to huge losses for the farmers. It is not possible for farmers to barricade entire fields or stay on field 24 hours and guard it. So here we propose automatic crop protection system from animals and fire

9. PROBLEM ROOT CAUSE RC

RCA can be decomposed into four steps:

- Identify and describe the problem clearly.
- Establish a timeline from the normal situation until the problem occurs.
- Distinguish between the root cause and other causal factors (e.g., using event correlation).
- Establish a causal graph between the root cause and the problem.

7. BEHAVIOUR BE

Find the right sensor, customers spent free time on volunteering work, it collects all data information.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS TR

IoT Accelerator provides the possibility to manage triggers through the service portal and APIs. A trigger can be defined to automate events (notifications or actions) and can eliminate the need to manually monitor subscriptions

4. EMOTIONS: BEFORE / AFTER EM

Before this project farmers should be monitoring the crops 24 hours but after this project the farmers are able to track the conditions.

10. YOUR SOLUTION SL

It is worth pondering how farmers have been managing crop health in recent times as the demand for food is increasingly growing with an upsurge in the human population. Previously, it was not considered much challenging to manage everything manually, but with the growing production, population, and demand, it is now becoming quite difficult for the farmers to keep a proper check on the quality of the crops.

8. CHANNELS OF BEHAVIOUR CH

ONLINE

The cloud and IOT for tracking, monitoring, automating and analyzing operations. Smart farming is software Managed and sensor monitored.

OFFLINE

. Water, light, humidity and temperature management are also important in smart farming

Extract online & offline CH of BE

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