Problem-Solution fit canvas 2.0

1. CUSTOMER SEGMENT(S) — CS

Define CS, fit into CS

Farmers and formulators today face new obstacles as a result of climate change, the global economy, new regulations, and changing consumer preferences. New alternatives to established weed desiccation and growth control methods are emerging, offering clients the freedom and assurance to customise their formulations to their conditions and requirements. A notable example is glufosinate herbicides, which quickly and effectively eliminate a wide variety of weeds and unwanted plants.

6. CUSTOMER CONSTRAINTS — CC

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. 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

5. AVAILABLE SOLUTIONS — AS

Explore AS, …

Electrical fencing alternatively we used Object detection using AI
Merits;Alarm System is help to protect our fieldSecurely
Demerits:Animal damage to the field might occasionally cause problems.

2. PROBLEMS — J&P

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

Crop raiding by wild herbivores close to an area of protected wildlife is a serious problem that can potentially undermine conservation efforts. Since there is orders of magnitude difference between farmers' perception of damage and the compensation given by the government, an objective and realistic estimate of damage was found essential

9. PROBLEM ROOT CAUSE — RC

- Lack of or incorrect documentation
- Lack of or incorrect training
- Lack of management commitme

7. BEHAVIOUR — BE

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

Farmers implements security plans for their fields themselves They always think about plants out growth & protection

3. TRIGGERS — TR

Identify strong TR & EM

Wild creatures, including monkeys, stray animals—especially cows and buffaloes—wild dogs, nilgais, bisons, elephants, deer, wild pigs, and even parakeets—damage crops severely by trampling them underfoot, devouring them, or destroying them entirely. Crop yield suffers as a result. The fruit and flowerings in fruit orchards are destroyed by these creatures' attacks. Both times, this causes the farmers and orchard owners to suffer large financial losses. The issue is so severe that occasionally farmers choose to abandon the area in order to avoid animal assaults.

4. EMOTIONS: BEFORE / AFTER — EM

Crops in farms are many times ravaged by local animals like buffaloes, cows, goats, birds 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. This is a microcontroller based system using PIC family microcontroller. This system uses a motion sensor to detect wild animals approaching near the field. In such a case the sensor signals the microcontroller to take action. This ensures complete safety of crops from animals thus protecting the farmers loss.

10. YOUR SOLUTION — SL

IOT Based Crop Protection System against Birds and Wild Animal. This is a microcontroller based system using PIC family microcontroller. This system uses a motion sensor to detect wild animals approaching near the field. be commonly found in web application(Node Red) using Arduino

8. CHANNELS of BEHAVIOUR — CH

Extract online & offline CH of BE

1. ONLINE

We notify the information about of field in web application

8.2 OFFLINE

You are offline the application show last information about the field

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