Problem-Solution fit canvas 2.0

Purpose / Vision

1. CUSTOMER SEGMENT(S)

CS

Smart farming helps farmers to better understand the important factors

- ✓ Water
- ✓ Topography
- ✓ Vegetation
- ✓ Soil types

6. CUSTOMER CONSTRAINTS

CC

5. AVAILABLE SOLUTIONS

AS

- ✓ Water Conservation
- ✓ Real –Time Data and production insight
- ✓ Lowered Operation costs
- ✓ Increased quality of production
- ✓ Remote monitoring

✓ It is possible to optimise the monitoring of farms, mainly through smart sensors capable of measuring everything from solar radiation to leaf moisture and stem diameter

✓ The temperature of each animal in the case of livestock, making its easier

2. JOBS-TO-BE-DONE / PROBLEMS

J&P

9. PROBLEM ROOT CAUSE

RC

7. BEHAVIOUR

BE

- ✓ To control the flow of water using IoT
- ✓ To count the number of earthworms using PIR sensor
- ✓ To identify the temperature and humidity using DHT11 sensor
- ✓ To identify the soil moisture using FC-28 sensor

- ✓ Cope with climate change ,soil erosion and biodiversity loss
- ✓ Satisfy consumer's changing tastes and expectations
- ✓ Meet rising demand for more food of higher quality
- ✓ Invest in farm productivity

- ✓ It is used to measure the soil quality of the agriculture field for crop irrigation
- ✓ To design the framework at less cost
- ✓ To monitor soil fertility and plant growth

3. TRIGGERS

TR

10. YOUR SOLUTION

SL

8.CHANNELS of BEHAVIOUR

СН

- ✓ Decreasing resource input will save the farmer money and labor, and increased reliability of spatially explicit data will reduce risks
- 4. EMOTIONS: BEFORE / AFTER

EM

BEFORE: Fear of smart farming, High Cost

AFTER: Cost Effective, Accuracy

- ✓ Livestock tracking and Geo fencing
- ✓ Smart logistics and warehousing
- ✓ Smart pest management
- ✓ Smart Greenhouses
- ✓ Climate monitoring and forecasting
- ✓ Remote crop monitoring

1. ONLINE

Cloud storage helps to store a large quantity od sensor data in devices

8.2 OFFLINE

Detection of earthworms .measure the temperature of the soil, humidity, climate condition and moisture present in the soil