1. CUSTOMER SEGMENT(S)

Farmers

CS

6 CUSTOMER CONSTRAINTS

CC



Explore AS, differentiate

Manual monitoring is time consuming.

Lot of manpower is required.

Soil nature parameters are not known.

Expensive.

Crop yield is poor.

5. AVAILABLE SOLUTIONS

Automatic irrigation.

Limited number of sensors are considered

High cost.

Tough installation.

2 JORS-TO-RE-DONE / PROBLEMS





CH

Extract online & offline CH of BE

Measure values of humidity, moisture, pH and temperature automatically instead of

manual measurements.

Automatic irrigation system based on the soil nature values

Get to know the values from anywhere around the world using an app.

Get a better crop yield.

9 PROBLEM ROOT CALLSE

Unpredictable environmental factors.

Unknown data about soil pH, moisture. humidity and temperature.

Manual operations like irrigation, pest control requiring lot of manpower

Inadequate knowledge about soil conditions so factors like over irrigation occurs.

7 REHAVIOUR

Farmers cannot predict the weather by themselves

Focus their major concentration on crop yield.

Avoid unwanted loss of water, pesticides and time

2 TRIGGERS



Gives frequent updates on the parameters to the farmers, based on which automatic irrigation takes place.

Crops get a better yield.

EM

4 EMOTIONS: REFORE / AFTER

Before: Physical monitoring Improper irrigation

After: Automatic system monitoring Irrigation based on sensor values 10 YOUR SOLUTION

Sensors to measure temperature, pH, moisture and humidity are deployed which send the values to an app where the user can view them. Based on these values. automatic irrigation systems are developed. Weather APIs are used to predict the weather and corresponding actions can be taken by the farmer using the app itself.

All operations are automated and can also be operated using the app from anywhere and anytime.

8. CHANNELS of BEHAVIOUR



5.1 ONLINE

SI

Analyses the parameter values and starts automatic triggers and alerts the user via the app.

Sensors present in the farm monitor the soil values such as moisture, humidity, pH and temperature.

S.T. OFFLINE