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1. CUSTOMER SEGMENT(S)

The intended consumer for this product is a farmer who raises crops. We want to help them by remotely observing field conditions. This product saves agriculture from extinction.

6. CUSTOMER CONSTRAINTS

Utilizing many sensors is difficult. An uninterrupted or ongoing internet connection is necessary for success.

5. AVAILABLE SOLUTIONS

The watering procedure is automated via IoT. Field parameters and meteorological data were acquired and analyzed in order to automate the watering procedure. Efficiency over short distances is constrained, and data storage is Challenging.

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2. JOBS-TO-BE-DONE / PROBLEMS

The purpose of this product is to use sensors to gather various field parameters, which are subsequently processed by centralized processing system. IoT transmits and stores data using the cloud. Farmers use the Weather API to help them make decisions.

9. PROBLEM ROOT CAUSE

Due to the frequently shifting and unpredictable weather and temperature, farming was difficult. These considerations are essential when determining whether to water your plants.

7. BEHAVIOUR

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Use a proper drainage system to offset the effects of additional water from heavy rain. Hybrid plants that are pest-resistant are used.

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3. TRIGGERS

It is difficult for farmers to supply enough irrigation. Reduced yields and lower profits are consequences of inadequate water supplies for farmers. Weather forecasting is difficult for farmers.

TR 10. YOUR SOLUTION

Our product gathers data from a range of sensors and transmits the values to our main server. Furthermore, the Weather API is used to gather weather information. The farmer uses a smartphone application to make the final decision regarding irrigation of the crop.

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8. CHANNELS of BEHAVIOUR

and information about the pH and moisture content of the soil. The user will receive online help for utilizing the product.

OFFLINE: Awareness campaigns will be held to highlight the benefits of automation and the Internet of Things for the advancement of agriculture.

ONLINE: Giving the farmer internet support

4. EMOTIONS: BEFORE / AFTER

BEFORE: Poor weather predicting skills-> irrational choices->low yield.

AFTER: Reliable data->wise judgement->High

Yield

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