**Project Title:** SmartFarmer - IoT Enabled Smart Farming Application **Project Design Phase-I - Solution Fit Team ID:** PNT2022TMID26330

# AVAILABLE SOLUTION AS

**Define CS, fit into CC**

Manual monitoring of crops by recognizing changes in leaf quality and sick patches, people can assess a plant's level of illness. In similar way weather and Quality of soil are recognized, Irrigation Control is done by making the water paths to the crops manually.

# 8. CHANNELS OF BEHAVIOUR CB

## Online :

**1. CUSTOMER SEGMENT(S)**

**CS**

Farmers are the primary target customer along with them small Industrial Workers may also be the customer in some cases.

**Explore AS, differentiatFeocus on J&P, tap intE, understand RC**

Basic understanding of plants, Soil quality, and Control the irrigation of the crop through the application

## Offline :

People attempt to diagnose diseases based on the condition of the leaves.

# 2. JOBS-TO-BE-DONE / PROBLEMS

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

This application focuses on Crop Monitoring, Local weather Monitoring, Soil Quality Monitoring and Irrigation Control.

# J&P

**CC**

# CUSTOMER CONSTRAINTS

Access to a reliable internet connection. To acquire a precise prognosis of disease in the plant, the image must be captured in the necessary pixels. More sensors should be used and make the farmers to access the application in a easy way.

**RC**

# 9.PROBLEM ROOT CAUSE

Having poor drainage, the soil lacks water and nutrients like phosphate and nitrogen that cause disease.

**TR**

**3. TRIGGERS**

**10. YOUR SOL**

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|  | **3. TRIGGERS**  Factors such as Climate change, population growth **TR**  and food security concerns have propelled the  industry into seeking more innovative approaches. | **B**  **7. BEHAVIOUR**  **Directly :** The tool makes it simple for farmers to monitor the crop, weather conditions and quality of the soil, and they don't need any further expertise in disease prediction.  **Indirectly:** Online results may be accessed instantly by farmers, who can also expect good crop growth and irrigation system. | **10. SOLUTION**  By making farming more connected and intelligent, precision agriculture helps reduce overall costs and improve the quality and quantity of product. |  |

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|  | **4. EMOTIONS: BEFORE / AFTER**  **EM**  Before : Losing confidence, Miserable, Stressed. After : Self-assured, Relief, Happy |  |  |  |