## **Project Design Phase-I - Solution Fit TeamID: PNT2022TMID41877**

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

# 10. YOUR SOL

## 1. CUSTOMER SEGMENT(S)

CS

#### 5. AVAILABLE SOLUTION

the water paths to the crops manually.

AS

#### 8. CHANNELS OF BEHAVIOUR

Explore AS, differentiate

#### Online:

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

This application focuses on Crop Monitoring,

Local weather Monitoring, Soil Quality

Monitoring and Irrigation Control.



6. CUSTOMER CONSTRAINTS

CC

 $\mathbf{B}$ 

9.PROBLEM ROOT CAUSE

RC

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.

Manual monitoring of crops by recognizing changes in

leaf quality and sick patches, people can assess a plant's

soil are recognized, Irrigation Control is done by making

level of illness. In similar way weather and Quality of

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

#### 3. TRIGGERS



Factors such as Climate change, population growth and food security concerns have propelled the industry into seeking more innovative approaches.

### 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.



4. 1	EMOTIONS: BEFORE / AFTER	
Bef Aft	fore: Losing confidence, Miserable, Stressed. ter: Self-assured, Relief, Happy	EM
Alt	er . Sen-assured, Rener, Trappy	