Project Title: Estimate the Crop Yield Using Data Analytics
Project Design Phase-I - Solution Fit Template
Team ID: PNT2022TMID20635

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)
CS

Farmers are the customer who wants to yield a crop in field.

6. CUSTOMER CONSTRAINTS
C

Less knowledge and development towards the current environmental changes and technologies, they follow ancient methods, which is also worthy but, the climatic changes and new kind pesticides.

5. AVAILABLE SOLUTIONS
AS

- Traditional ways of prediction.
- Precision farming.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS

J&P
- Help them understand the usage of prediction and software application for good results in agriculture.
- Data report should to be created to reduce the loss of the crop and earn more profit in agriculture fields.

9. PROBLEM ROOT CAUSE
RC

- Various disease on the plants can lead to reducing the quality of the crops productivity.
- The insects on the plants can spread the disease.

7. BEHAVIOUR
BE
- Try to get help from agricultural experts.
- Try to take up non-natural means of cultivation for quicker harvest.

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

3. TRIGGERS

TR

- ☐ Seeing their crops are being infected by disease and facing huge loss in quality.

4. EMOTIONS: BEFORE / AFTER

EM

- **Before :** Most of the famers in India have Stress, Loosing Self Confidence.

- **After :** Gain of Self Confidence.

10. YOUR SOLUTION

SL

- The solution for the problem, creating data report using past datasets.

- Creating IBM Cognos dashboard could make them better understand easily.

8. CHANNELS of BEHAVIOUR

CH

- Trying to use pesticides and fertilizers that increase gain but cause harm.

- Irrigation channel changes.