Project Design Phase-I

Problem Solution Fit

Date	03 October 2022
Team ID	PNT2022TMID22213
Project Name	Estimate the Crop yield Using Data Analytics

Define CS, fit into CL

1. CUSTOMER SEGMENT(S) — CS

Farmer's! Who's not near his field in corporate, SME and farmer.

6. CUSTOMER LIMITATIONS — EG. BUDGET, DEVICES — CL

1) High adoption costs, security concerns.
2) Not aware of the implementation of agriculture.
3) Use it according to the climate change

Explore AS, differentiate

5. AVAILABLE SOLUTIONS — PLUSES & MINUSES — AS

Monitor different parameters and mobile or web application make easily to farm the crop field .

Focus on PR, tap into BE, understand RC

2. PROBLEMS / PAINS + ITS FREQUENCY — PR

- Control system of the mechanism is difficult
- Ain't known if the application doesn't work properly.

9. PROBLEM ROOT / CAUSE — RC

If temperature, PH level, humidity & light intensity makes the serious cause for the environment.

7. BEHAVIOR + ITS INTENSITY — BE

Located in rural where internet connectivity might not be strong enough to facilitate fast transmission speeds.

The customer will give the proper products inthe crop.

Focus on PR, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS TO ACT — TR

Create opportunities to lift people out of poverty in developing nations. Smart farming reduces the ecological footprint

4. EMOTIONS BEFORE / AFTER — EM

BEFORE: Finances, Heavy work overload and conflict in relationship.
AFTER: people get more info about crop protection make easy to yield.

10. YOUR SOLUTION — SL

"Data Analytics based Smart crop protection systemfor agriculture"
It help farmers grow more food on less land by protection crops from pests, diseases and weeds as well as raising productivity per hectare.

the sensors and drones sensed informationfrom field and protect the crop.

8. CHANNELS of BEHAVIOR — CH

ONLINE: The Data send through application and sensor data will send to the farmer.

OFFLINE: The control action is taken by the farmers to monitor the farms. throughthe immediate reaction.

Extract online & offline CH of BE