# Project Design Phase-I

# **Problem Solution Fit**

Date	19 September 2022
Team ID	PNT2022TMID26635
Project Name	Project- IoT based smart crop protection for
	agriculture
Maximum Marks	2 Marks

# Problem Solution Fit template: IoT based smart crop protection for agriculture

# 1. CUSTOMER SEGMENT(S)



- Customer who are unable to foresee animals entering their fields are farmers
- Animal intrusion on agricultural property results in crop loss, thus our target

#### **6. CUSTOMER CONSTRAINTS**



- The difficulties that customers encounter when animalsinterfere with agricultu ral life, and these weterm as constraints.
- Also, the loss that is encountered and lack of resources from government.

#### 5. AVAILABLE SOLUTIONS

AS

 Customers use barrier and other boundary tools to avoid animals from trespassing

## 2. JOBS-TO-BE-DONE / PROBL EMS

J&P

- When animals enter agricultural grounds, a sensor will detect them and alert the consumers.
- Thus we need to eliminate the threat for our customer without causing any collateral damage

## 9. PROBLEM ROOT CAUSE



Farmers suffer , also it affects when animals tamper with the growth of the crops, thu s a better solution must be taken place so that the root problemcan be eliminated

Proposing an automated method for judicious crop

things(IoT) to address this problemand also get the

defense system by utilizing the internet of

proper approach from farmer

### 7. BEHAVIOUR

BE

Acustomers work of locating an animal ingress into the farming grounds is never

# 3. TRIGGERS



Televisioncommercials and expert information from outsou rce are some of the triggering measures that can be adopted

#### 4. EMOTIONS: BEFORE / AFTER



- **BEFORE: Frustration, helplessness**
- AFTER: Satisfaction, Calm state of mind

#### 10. YOUR SOLUTION



Online:

**8.CHANNELS of BEHAVIOUR** 



Farmerscan purchase IoT based solutions with the aid of numerous online channels

### Offline:

authorized vendors any officially whole sale stores

Trying to purchase IoT based devices from