MAHENDRA INSTITUTE OF TECHNOLOGY(AUTONOMOUS)

Ideation Phase Define The Problem Statements

Date	28 September 2022
Team ID	PNT2022TMID17172
Project Name	Project - Smart Farmer IOT- Enabled Smart Farmer Application
Maximum Marks	2 Marks

Customer Problem Statement Template:

The traditional agriculture and allied sector cannot meet the requirements of modern agriculture which requires high-yield, high quality and efficient output. Thus, it is very important to turn towards modernization of existing methods and using the information technology and data over a certain period to predict the best possible productivity and crop suitable on the very particular land.
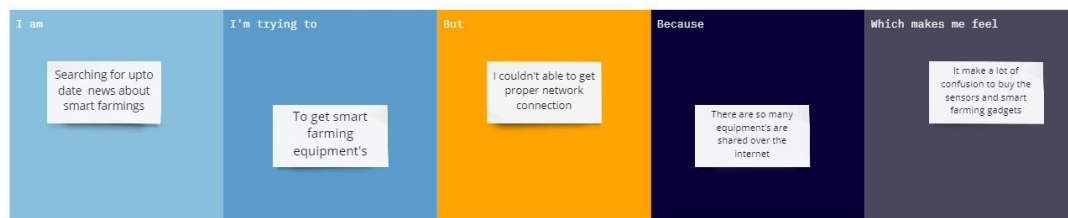
The adoptions of access to high-speed internet, mobile devices, and reliable, low-cost satellites (for imagery and positioning) are few key technologies characterizing the precision agriculture trend.

Precision agriculture is one of the most famous applications of IoT in the agricultural sector and numerous organizations are leveraging this technique around the world.

Some products and services in use are VRI optimization, soil moisture probes, virtual optimizer PRO, and so on. VRI (Variable Rate Irrigation) optimization maximizes profitability on irrigated crop fields with topography or soil variability, improve yields, and increases water use efficiency.

IoT has been making deep inroads into sectors such as manufacturing, health-care and automotive. When it comes to food production, transport and storage, it offers a breadth of options that can improve India's per capita food availability. Sensors that offer information on soil nutrient status, pest infestation, moisture conditions etc. which can be used to improvecrop yields over time.

Example:

Problem Statement (PS)	Iam (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Searching for upto date news about smart farming	Find the technology on trend	The cost of the gadget was not effectively sufficient to use	It shows a incorrect location and insufficient battery life	It make some tracking Confusion
PS-2	Searching for upto date news about smart farming	To get smart Farming equipment's	I couldn't able to get proper network connection	There are so Many equipment's are shared over the internet	It make a lot of confusion to buy the sensors and Smart farming gadget

Reference: https://miro.com/templates/customer-problem-statement/