

PROBLEM STATEMENT

Date	18.11.2022
Team ID	PNT2022TMID11788
Project title	SmartFarmer - IoT Enabled Smart Farming Application

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Mr Muthusamy is a farmer with an engineering background. He's recently moved into agriculture. Since he is a beginner in farming, he needs someone to guide him in the initial years and he also wants to incorporate technology into farming to reduce the work, improve productivity, more yield, suggestions to improve soil, and next crop planting ideas. He is actively researching a few agro products that solve his problem. These problems are common to many beginning and experienced farmers.

Who does the problem affect?	Persons who do Agriculture
What are the boundaries of the problem?	Cope with climate change, soil erosion and biodiversity loss
What is the issue?	Loss of agricultural land and the decrease in the varieties of crops and livestock produced.
When does the issue occur?	Increasing pressures from climate change, soil erosion, its mostly starts from first day farming
Why is it important that we fix the problem?	It is required for the growth of better quality food products. It is important to maximise the crop yield. It is important to maintain soil richness
What solution to solve this issue?	An application is introduced to know about various data about their land remotely, where they can schedule some events for a month or a day. It also provides suggestions to users based on the crop they planted.
What methodology used to solve the issue?	Some search results info from internet based on crop planted. Arduino microcontroller to control the process and various sensors for data. An app built using MIT App Inventor

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