Project Title:IoT enabled Smart Farming Agriculture Project Design Phase-I - Solution Fit Template Team ID: PNT2022TMID27964

The major constraint is network connectivity as it requires an unlimited or continuous internet connection to be successful.

Drip irrigation could be the best solution to irrigation crops and has the advantage of lower evaporation than other irrigation methods.For certain crops, it is much more efficient than any other irrigation.

Farmers who wants to improve the

yield of their crops and also know about the conditions of their crops as well as environmental conditions so they could take the necessary actions immediately.



Farmers must be with their phone/laptop always so that they would be alarmed when they get the message/mail.

Our main job would be making the

technologies feasible for the farmers.

IoT applications help farmers to collect data regarding the location, well-being, and health of their crops.

Weather stations equipped with smart sensors can collect weather data and send useful information to a farmer.

Traditional watering methods can waste as much as 50% of the water used due to inefficiencies in irrigation, evaporation and over watering.In some times,farmers can’t predict the sensing parameters data.

accurately.



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|  | **3. TRIGGERS TR**  Urge to reduce water wastage and electricity,Reducing human efforts and  Increasing the crop yields.  **4. EMOTIONS: BEFORE / AFTER4. EMOTIONS: BEFORE / AFTER EM**  How do customers feel when they face a problem or a job and afterwards?  i.e. lost, insecure > conﬁdent, in control - use it in your communication strategy &  **EM**  How do customers feel when they face a problem or a job and afterwards?  i.e. lost, insecure > conﬁdent, in control - use it in your communication strategy &  What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efﬁcient solution in the news.  **Before**: depressed ,facing more losses.  **After**: confident, get chance to spend time efficiently. | **10. YOUR SOLUTION SL**  Our solution for this project is to make the irrigation system efficient. By using the sensed information from the field,  the farmer will aware of real-time weather conditions like air and dew temperature, precipitation, and humidity. And also make the automation is on and off the pump.  water pump.  If you are working on an existing business, write down your current solution ﬁrst, ﬁll in the canvas, and check how much it ﬁts reality.  If you are working on a new business proposition, then keep it blank until you ﬁll in the canvas and come up with a solution that ﬁts within customer limitations, solves a problem and matches customer behaviour. | 1. **CHANNELS of BEHAVIOUR CH**   **Online**: The farmers can control the motor pumps through mobile application.  **Offline**: the farmers can get the sensing parameters data (temperature,humidity,moisture) through SMS.   * 1. **ONLINE**   What kind of actions do customers take online? Extract online channels from #7   * 1. **OFFLINE**   What kind of actions do customers take ofﬂine? Extract ofﬂine channels from #7 and use them for customer development. |  |  |  |  |