

Proposed Solution

Team ID	PNT2022TMID33417
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

Proposed Solution Template:

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>To provide efficient decision support system using wireless sensor network which handle different activities of the farm and give useful information related to the farm. Information related to Soil moisture, Temperature and Humidity content. Due to the weather condition, water level increases Farmers get a lot of distractions which is not good for Agriculture. Water level is managed by farmers in both Automatic/Manual using that mobile application.</p>

		It will make it more comfortable for farmers. Performing agriculture is very much time consuming.
2.	Idea / Solution description	Uses sensors to monitor the crop field and automata the irrigation system(light,humidity,temperature,soil moisture,crop health,and so on). Farmers can keep an eye on their fields from anywhere.
3.	Novelty / Uniqueness	One of the benefits of using IoT in agriculture is the increased agility of the processes. Thanks to real-time monitoring and prediction systems, farmers can quickly respond to any significant change in weather, humidity, air quality as well as the health of each crop or soil in the field.
4.	Social Impact / Customer Satisfaction	Contribution to the different certification systems aiming to ensure quality products (organic production, designation of origin, etc.), maintenance of rural development through agriculture and livestock activity (focusing in family farms' sustainability etc.), contribution to the development of circular economy etc
5.	Business Model (Revenue Model)	Because of utilizing brilliant cultivating methods, you can observe an improvement in crop creation, both with regards to quality and amount. Further developed creation will help the farmers financially who will actually

		want to deal with a good pay in the wake of deducting the expense of creation.
6.	Scalability of the Solution	<p>Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors and automation of irrigation systems. Internet of Things based Advanced Farming is highly efficient when compared with the conventional approach. The applications of intelligent Agriculture solutions not only targets conventional, large farming. With operations, but could also be new levers to uplift other growing or common trends in agriculture like organic farming, family farming and enhance highly transparent Farming.</p>