Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID01891
Project Name	Project - Smart Farmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	There are increasing pressures from climate change, soil erosion, and biodiversity loss and from consumers' changing tastes in food and concerns about how it is produced. And the natural world that farming works with – plants, pests, and diseases – continues to pose its own challenges.
2.	Idea / Solution description	Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture, etc.) and automation of irrigation systems. Further with the help of these sensors, farmers can monitor the field conditions from anywhere.
3.	Novelty / Uniqueness	Smart farming, which involves the application of sensors and automated irrigation practices, can help monitor agricultural land, temperature, soil moisture, etc. This would enable farmers to monitor crops from anywhere.
4.	Social Impact / Customer Satisfaction	Decent employment for More youth Involvement
5.	Business Model (Revenue Model)	After starting my MSc program in Management, Economics, and Consumer Studies at Wageningen University and Research Centre, I started looking for a thesis subject that would allow me to learn more about one of my interests – start-ups. I was looking to deep dive into the drivers and motivations of entrepreneurs to start a company from scratch. I was happy to find an opportunity in 2016 to start a project with Thomas Long on the research of Responsible Innovation within start-ups.

6.	Scalability of the Solution	Scalability in smart farming refers to the adaptability of a system to increase the capacity, for example, the number of technology devices such as sensors and actuators, while enabling timely analysis