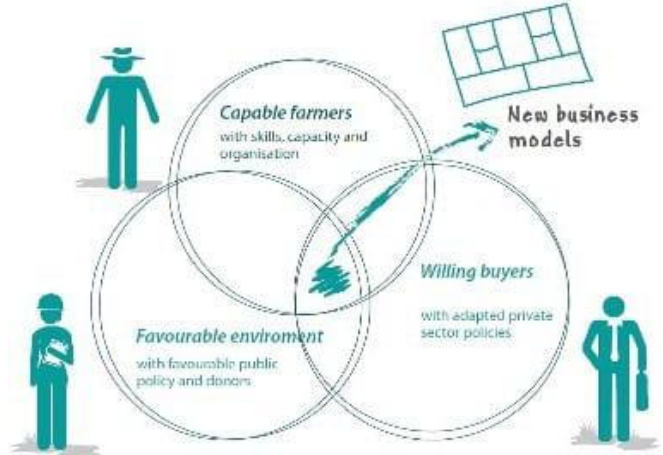


Project Design Phase-I
Proposed Solution Template

Date	22 October 2022
Team ID	PNT2022TMID15139
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)	<p>For the increasing population growth and for the demanding food supply needs, the normal provisioning systems with existing methodologies seems to be unworthy and requires and advanced facilitations with optimal usage of water resources (irrigational resources). Hence a smart monitoring system of the farmland conditions and other subsidies may help us for a better productivity.</p>
2.	Idea / Solution description	<p>By sensing the physical parameters such as temperature, moisture and other soil parameters periodically and transferring over a user interface application could help us to analyse the better situations of crop conditions.</p> <p>IoT gadget focusing on Live Monitoring of Environmental data in terms of Temperature, Moisture and other types depending on the sensors integrated with it.</p>
3.	Novelty / Uniqueness	<p>Due to the usage of this system, adequate water is pumped and rain is also utilized efficiently. From anywhere in the world, farmers can know the values of humidity, temperature and soil moisture and various other physical parameters.</p> <p>The internet of things based smart farming System being proposed via this report will assist farmers in increasing the agriculture yield and take efficient care of food production as the System will always provide helping hand to farmers for getting accurate live feed of environmental temperature and soil moisture with more than 99% accurate results.</p>

4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ▪ Reduces man power requirement ▪ Easy maintenance ▪ Cost reduction ▪ High productivity ▪ Enhanced supply chain improvement
5.	Business Model (Revenue Model)	
6.	Scalability of the Solution	<p>The proposed model is scalable as it is adaptive to every situation by detecting the problems over environmental changes and acts automatically according to that.</p> <p>The scalable integrity of the product also varies as per the farmland location and on conditional requirement basis.</p>