

Project Design Phase-I

Problem-Solution Fit Template

Date	29 September 2022
Team ID	PNT2022TMID50828
Project Name	Project – Smart Farming Applications
Maximum Marks	2 Marks

Problem-Solution Fit:

- On-Demand Delivery. Dynamic Delivery Services. Cost-Effective.
- Improvised Stock Management. Easier data ingestion. Simplified inventory management.
- Smartphone Monitoring and Personalization. Application-based monitoring.
- Consumer Interactions. Cloud-based system softwares.

Purpose:

Smart farming is a management concept focused on providing the agricultural industry with the infrastructure to leverage advanced technology – including big data, the cloud and the internet of things (IoT) – for tracking, monitoring, automating and analyzing operations.

Precision agriculture, aka smart farming, paves the way for sustainable agriculture. Sustainability of agricultural production means meeting the demand of people while preserving the environment and increasing prosperity for today and in the future.

Template:

1.Customer segment people

The user can access anywhere at any time

2.Jobs to be done/ Problem

Automation, robotics and data capture and management systems can make farming less complex and labour intensive and thus more and attractive as a job opportunity.

3.Triggers

We suggest that agriculture is undergoing a fourth revolution triggered by the exponentially increasing use of information and communication technology in agriculture.

4.Emotions before/after

Together with the development of lightweight and powerful hyperspectral snapshot cameras that can be used to calculate biomass development and fertilization status of crops

5.Available Solutions:

IoT in smart farming is the future of precision farming and results in high quality produce and healthy cattle

6.Customer constrains:

The existing scale and capacity of buildings and machinery used in the production process

7.Behaviour:

Farming is a behavior in which an organism promotes the growth and reproduction of other organisms in or on a substrate as a food source. A number of trace fossils have been suggested to record the occurrence of farming behavior.

8. Channels of behaviour online

online platforms has been made for communication purposes between farming systems and farmers.

9. Problem root cause: destailizing effects of economic growth.