# Ideation Phase
# Brainstorm&Idea Prioritization Template

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|---|---|
| Date | 15 September 2022 |
| Team ID | PNT2022TMID24924 |
| Project Name | Project – Smart Farmer-IoT Enabled Smart Farming Application |
| Maximum Marks | 4 Marks |

**Brainstorm & Idea Prioritization:**

**Step-1: Team Gathering, Collaboration and Select the Problem Statement**

**Step-2: Brainstorm, Idea Listing and Grouping**

**Step-3: Idea Prioritization**

Template

# Brainstorm & idea prioritization

For Smart Farming IoT enabled Smart Farming Application

**10 minutes** to prepare
**1 hour** to collaborate
**2-8 people** recommended

Share template feedback

## Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

**A** **Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

**B** **Set the goal**
Think about the problem you'll be focusing on solving in the brainstorming session.

**C** **Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.

Open article →

## 2

### Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

### Anburaja

In farming watering the plants is one of the difficult process and they have to wait for the whole filed to pour water. He had to check the filed for 30 mins once

These items will either increase revenues , reduce costs - maximising your profit while also having the potential to reduce environmental impact

we have set out several uses cases for the internet of things smart farming technology covering what , why and how

### Karthick

There is real momentum behind IoT technology in agriculture and farming – with many analysts predicting both the market and the adoption of Smart Agriculture technology to sky-rocket as more firms recognise the benefits

Traditional farming would be focused on acres of land, making general decisions based on historical data, experience and 'feel'. These decisions could determine the use of fertiliser, irrigation, pesticides and harvesting.

Systems can recommend calibrated doses of fertiliser, targeted irrigation and early identification of diseases or substandard conditions.

### Arun Pandi

The system would take measurements before transmitting the data to the cloud so that you can control it remotely.

Agricultural drones allow farmers to survey their fields with ease; using imaging technology to recognise disease, pests or other issues relating to growth.

Autonomous farm vehicles – reduce the human labour associated with driving and operating vehicles

### Aswin

California produces 80% of the world's Almonds. A study found that a single Almond can consume 3.8L of water to grow. With Smart farming, soil moisture levels are monitored continuously, dramatically reducing unnecessary irrigation and watering.

IoT irrigation control. Activate irrigation valves when the soil moisture drops below a certain level.

Weather stations. The ability to monitor wind, rain, temperature and humidity are important factors in both arable and livestock farming

## 3

### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes

Temperature sensor, Moisture sensor, water sensor ,DC motor and GPRS module it made farming to ease . when the IOT based agriculture monitoring system start it checks the water level, humidty and moisture level

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

In farming watering the plants is one of the difficult process and they have to wait for the whole filed to pour water. He had to check the filed for 30 mins once

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## Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes