# Ideation Phase Brainstorm & Idea Prioritization Template

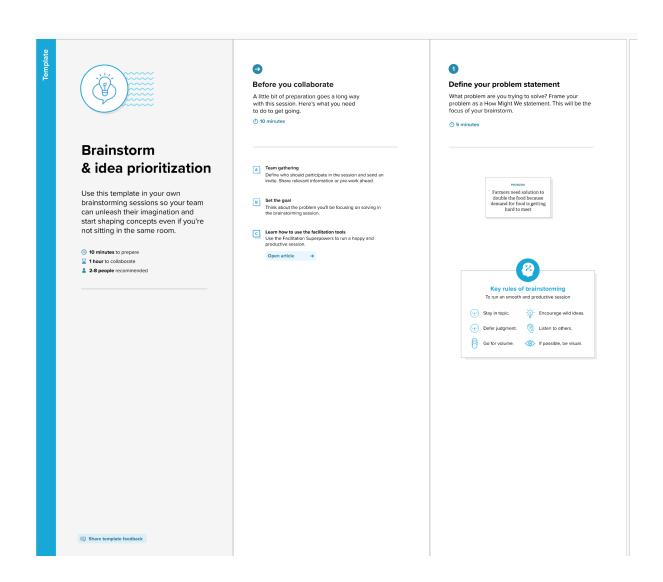
Date	10 October 2022		
Team ID	PNT2022TMID34110		
Project Name	Smart Farmer - IoT Enabled Smart Farming		
	Application.		
Maximum Marks	4 Marks		

### **Brainstorm & Idea Prioritization Template:**

### Reference:

https://app.mural.co/t/ashikar6064/m/ashikar6064/1664728229819/e79ac7e870edc9e4d0 862f01767ec312f9c2d1c6?sender=u854e4a823eb1c764ca726390

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





#### **Brainstorm**

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

10 minutes

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

# **A.ARSHITHA**

E-fences can be used to save crops from animals. Maintain higher standards of crop quality and growth capacity through automation.

sprinkler irrigation system can be used to increase the output by up to 50%. Sensors collect
various data
from the
environment for
monitoring the
climate
conditions.

Nitrogens are applied to crops in the form of fertilizer to help them grow stronger and better. Drones for monitoring soil and crop health.

# JANISHA.M

GPS tracking to gather and store historical data on preferred grazing spots

Monitor crop growth and abnormalities to prevent diseases.

Automated weeders to remove weeds

Soil is tested to know the nutrients and pH level

Realtime weather forecasting Air compressors to clean equipment and production areas

# **E.ABINI BREEN**

Automated off loading on farms to collect harvests.

Electrochemical sensors used to provide information for soil nutrient detection.

Temperature tracking to determine peak of mating season of livestock.

Weeds are removed by spraying herbicides by drones.

Water sensors to monitor water tank levels remotely.

Developing high yield varieties.

# **ASHIKA.R**

Monitoring the livestock in realtime to quickly treat & prevent spread of illness.

Using Genetically modified plants

Prediction of crop harvesting period Growing cover crops that add organic matter to the soil.

Ag-robots are used to farm,spray and harvest without help

Automated irrigation and fertilisation



#### **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.

(1) 20 minutes

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

## **SENSORS**

Sensors collect
various data from
the environment
for monitoring the
climate
conditions.

Monitoring the livestock in realtime to quickly treat & prevent spread of illness.

Water sensors to monitor water tank levels remotely.

GPS tracking to gather and store historical data on preferred grazing spots

# **AUTOMATION**

Automated weeders to remove weeds

Automated irrigation and fertilisation

Maintain higher standards of crop quality and growth capacity through

Automation
Automated
off loading on
farms to
collect
harvests.

# **CROP MONITORING**

Monitor crop growth and abnormalities to prevent diseases.

Drones for monitoring soil and crop health.

sensors used to provide information for soil nutrient detection.

# **INCREASE OF YIELD**

Nitrogens are applied to crops in the form of fertilizer to help them grow stronger and better.

Using Genetically modified plants sprinkler
irrigation
system can be
used to increase
the output by
up to 50%.

Developing high yield varieties.

Prediction of crop harvesting period

### **Step-3: Idea Prioritization**

