IBM NAALAIYATHIRAN
IDEATION PHASE- BRAINSTROMING
TEAM ID: PNT2022TMID33440

TEAM LEADER: M. SRUTHI

TEAM MEMBERS: T. RANJINI

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K. SHIVA SREE

TOPIC NAME: Smart Farmer - IoT Enabled Smart Farming Application

DOMAIN NAME: INTERNET OF THINGS

BRAINSTROMING IDEAS

SMART FARMER - IOT ENABLED SMART FARMING APPLICATION

Using IoT in agriculture improves the functionalities used in farming. Until now, the only way of handling the agricultural activities is by traditional method. In this survey Using WSN, data acquisition and transfer and monitoring becomes easy. This technique provides a smart solution for crop growth using IoT.

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

Team leader: M.Sruthi
Team members: T.Ranjini
                       K.Safiya Sanofer
                       K.Shiva sree

Making smart farming more smart

Brainstorming Ideas

Define your problem statement

Ideas to make farming smart by enabling Internet Of Things and also solving the problems that are existing in the farming process. Making Smart farming more easy by the use of sensors.
🕐 5 minutes

PROBLEM

Smart Farming; How to make smart farming more efficient and easily accessible to the farmers

Key rules of brainstorming
To run an smooth and productive session

- Stay in topic.
- Defer judgment.
- Go for volume.
- Encourage wild ideas.
- Listen to others.
- If possible, be visual.

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Brainstorm

Ideas of our team are
grouped below

🕐 **10 minutes**

Sruthi M

Cost management and should be effective	Less usage of water for irrigation	Using of sensors provide tons of ideas
observing the field remotely	Crop rotation to increase soil fertility	frequent soil quality checking

Ranjini T.

Drip irrigation can reduce the water usage	accuracy agribusiness to increase efficiency	Cattle monitoring improves yield
automated harvesting with suitable equipments	keeping the accurate record of farming data	take a look at supplements of plants

Safiya Sanofer K

Feedback system to increase efficiency	Immediate response in case of any crash	Listening to the farmers problem
constrained fertilizers to the crops	irrigation based on the climates	sensors to forecast the weather

Shiva Shree K

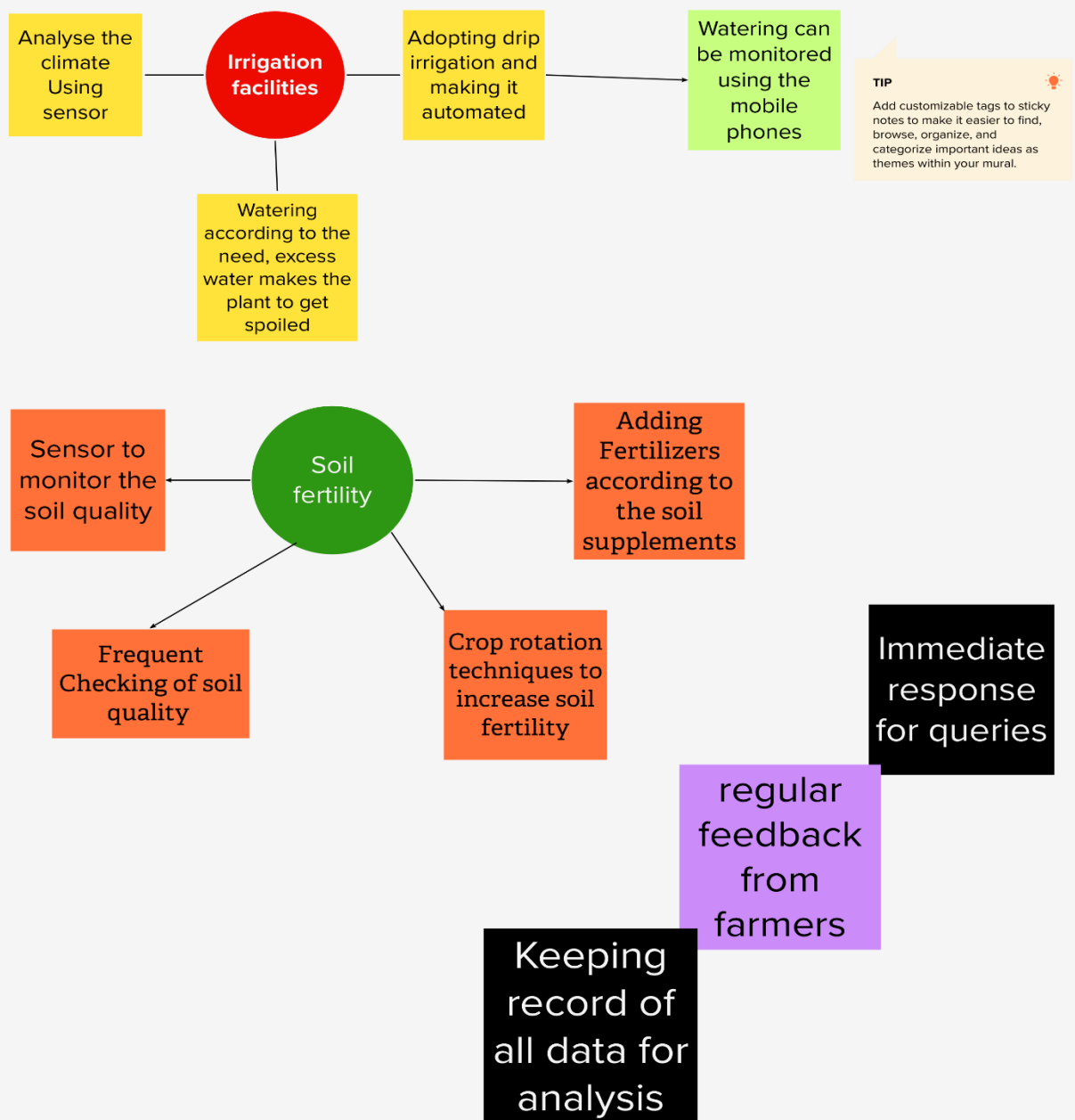|		
Using cattle excretion as manure	installing sensors for monitoring the plant growth	scheduling and planning for weekly monitoring
implement leakage control	agility of the processes	Sensors to detect the birds and flies also rodents

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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**

Analyse the climate Using sensor

Irrigation facilities

Adopting drip irrigation and making it automated

Watering can be monitored using the mobile phones

TIP

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

Watering according to the need, excess water makes the plant to get spoiled

Sensor to monitor the soil quality

Soil fertility

Adding Fertilizers according to the soil supplements

Frequent Checking of soil quality

Crop rotation techniques to increase soil fertility

Immediate response for queries

regular feedback from farmers
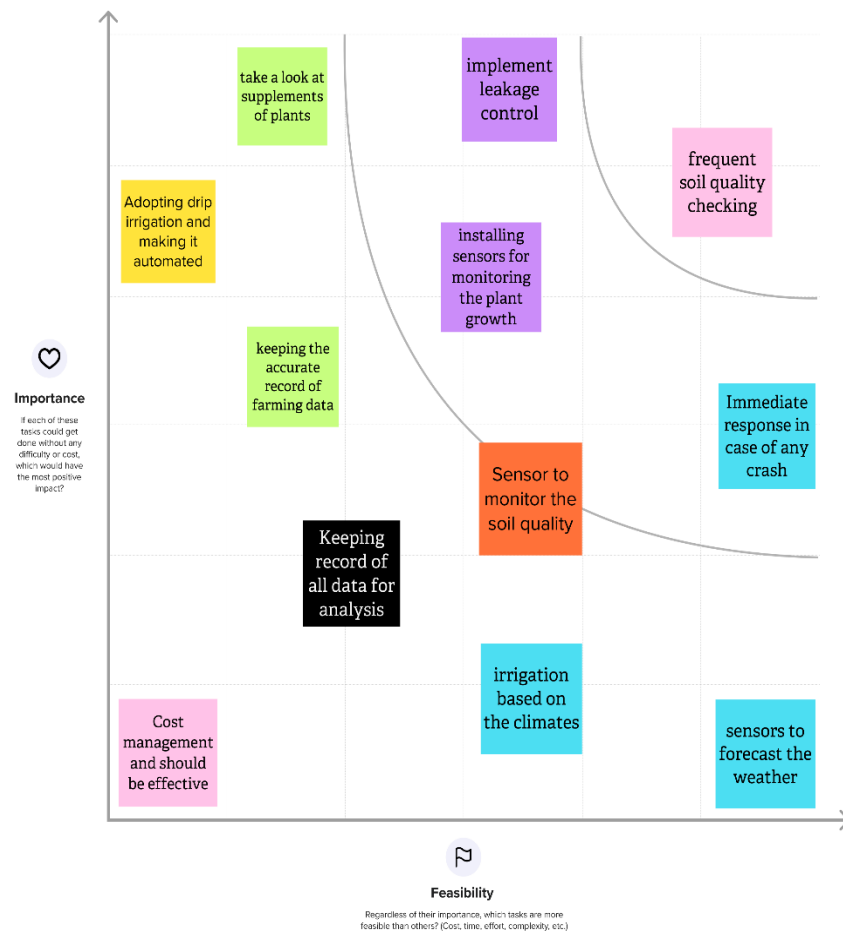
Keeping record of all data for analysis

④

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**

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

take a look at supplements of plants

implement leakage control

frequent soil quality checking

Adopting drip irrigation and making it automated

installing sensors for monitoring the plant growth

keeping the accurate record of farming data

Keeping record of all data for analysis

Sensor to monitor the soil quality

Immediate response in case of any crash

irrigation based on the climates

sensors to forecast the weather

Cost management and should be effective

⚑

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

→

After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

A **Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

B **Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

Strategy blueprint
Define the components of a new idea or strategy.
Open the template →

Customer experience journey map
Understand customer needs, motivations, and obstacles for an experience.
Open the template →

Strengths, weaknesses, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
Open the template →

🗨 Share template feedback