

Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

🕒 **10 minutes** to prepare

🕒 **1 hour** to collaborate

👤 **2-8 people** recommended

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Need some inspiration?

See a finished version of this template to kickstart your work.

[Open example](#) →



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



1

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes

PROBLEM

Real-time river water quality monitoring and control system



Key rules of brainstorming

To run an smooth and productive session



Stay in topic.



Encourage wild ideas.



Defer judgment.



Listen to others.



Go for volume.



If possible, be visual.

Brainstorm

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

🕒 10 minutes

TIP



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

GOWTHAM R

| | | |
|--|--|---|
| Evaluating the effect of substantial nutrient loads on overall water quality | The timeline of the measurements must be recorded. | Each data needs to be in different measures to analyse the quality |
| The data mining techniques will be used for applying the classification method for water quality application | The data distribution in the testing data should not affect the training data set. | Turbidity sensor can be used.It is a measure of cloudness of water. |
| Chlorine sensor is designed to measure the amount of chlorine in a solution. | | |

GOWTHAM S

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| Some of the variables can be eliminated due to meaningless analysis | Prediction can also be taken from the historical dataset | Flow sensor: Flow sensor is used to measure the fow of water. |
| Massive dataset and strong correlation between parameters will make the best prediction | The variable importance measure must be weighted sums of the absolute regression coefficients. | |
| Cross-validation can be used to evaluate method for reducing scales of overfitting and increasing accuracy of the model. | Water temperature indicates whether the water is cold or hot. The range of temperature sensor is 55 to +125°C | |

ARUNVIKRAM AR

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|---|--|---|
| Use of minimal number of parameters with cheap sensors to predict water quality. | The size of training datasets should not be less than the number of training parameters required in the model. | Accurate model can be selected based on the outcome in the model evaluation |
| General filtration of waste water samples. | Keep the data design | Machinized bulk water purifier with less time consumption. |
| Water conductivity sensors are used in water quality applications to measure how well a solution conducts an electrical current | | |

ARUNPRASHATH K

| | | |
|---|--|---|
| Stratified sampling strategy is used to mitigate the uneven distribution of training and testing dataset | Using supervised learning algorithms, water quality class can be predicted. | Use of industry with less biproduction of pollutants. |
| The proposed prediction system will iteratively test the model with training and testing datasets | Network structure selection method is proposed to identify the correlated input parameters | Feature selection helps to simplify the procedure and reduce computational cost of analysis |
| Oxidation Reduction Potential (ORP) or redox sensors measure the ability of a solution to act as an oxidizing or reducing agent | | |

Person 5

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Person 6

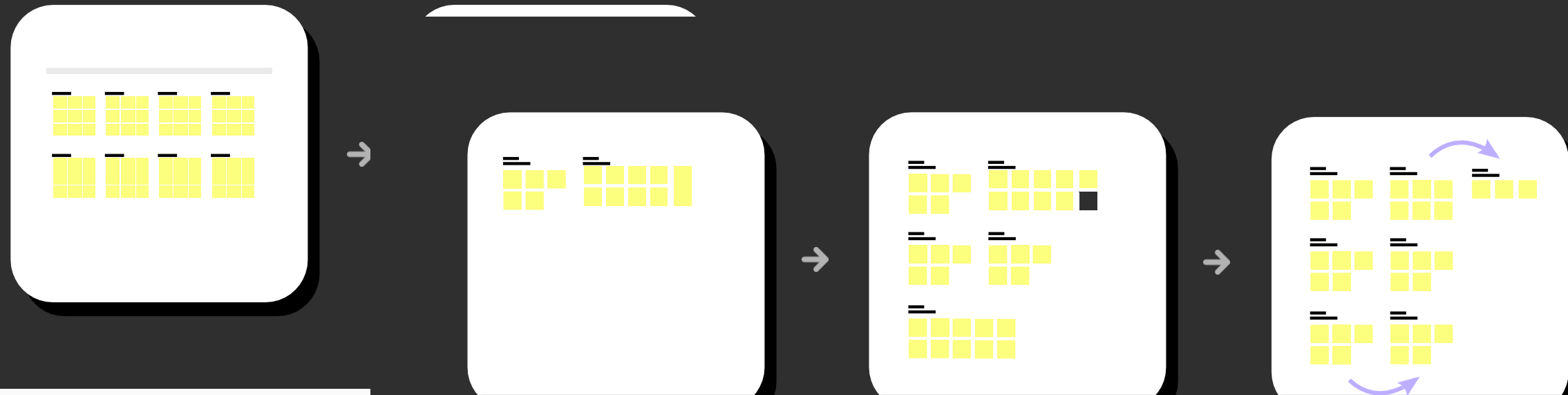
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Person 7

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Person 8

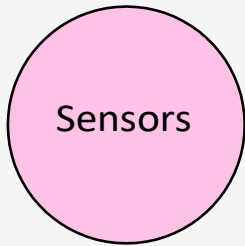
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Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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



Chlorine sensor is designed to measure the amount of chlorine in a solution.

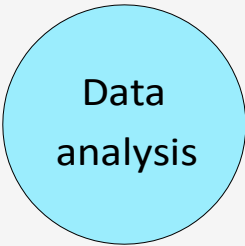
Turbidity sensor can be used. It is a measure of cloudiness of water.

Flow sensor: Flow sensor is used to measure the flow of water.

Water conductivity sensors are used in water-quality applications to measure how well a solution conducts an electrical current.

Use pH meter for sensing the pH value of the water.

Water temperature indicates whether the water is cold or hot. The range of temperature sensor is 55 to +125°C.

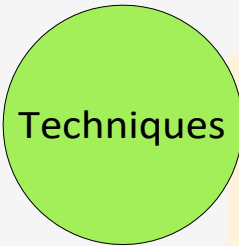


The data mining techniques will be used for applying the classification method for water quality application.

Data modelling to use the past dataset to inform the future effort.

Each data needs to be in different measures to analyse the quality.

The data distribution in the testing data should not affect the training data set.



TIP

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



Evaluating the effect of substantial nutrient loads on overall water quality.

Cross-validation can be used to evaluate method for reducing scales of overfitting and increasing accuracy of the model.

Parameters like temperature, turbidity, pH and dissolved solids can be used.

Using supervised learning algorithm, water quality class can be predicted.

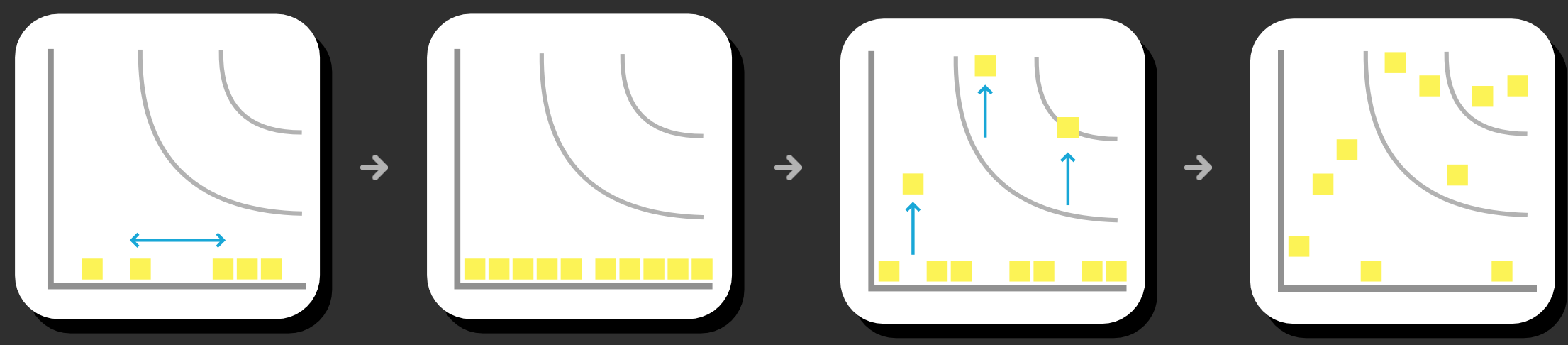
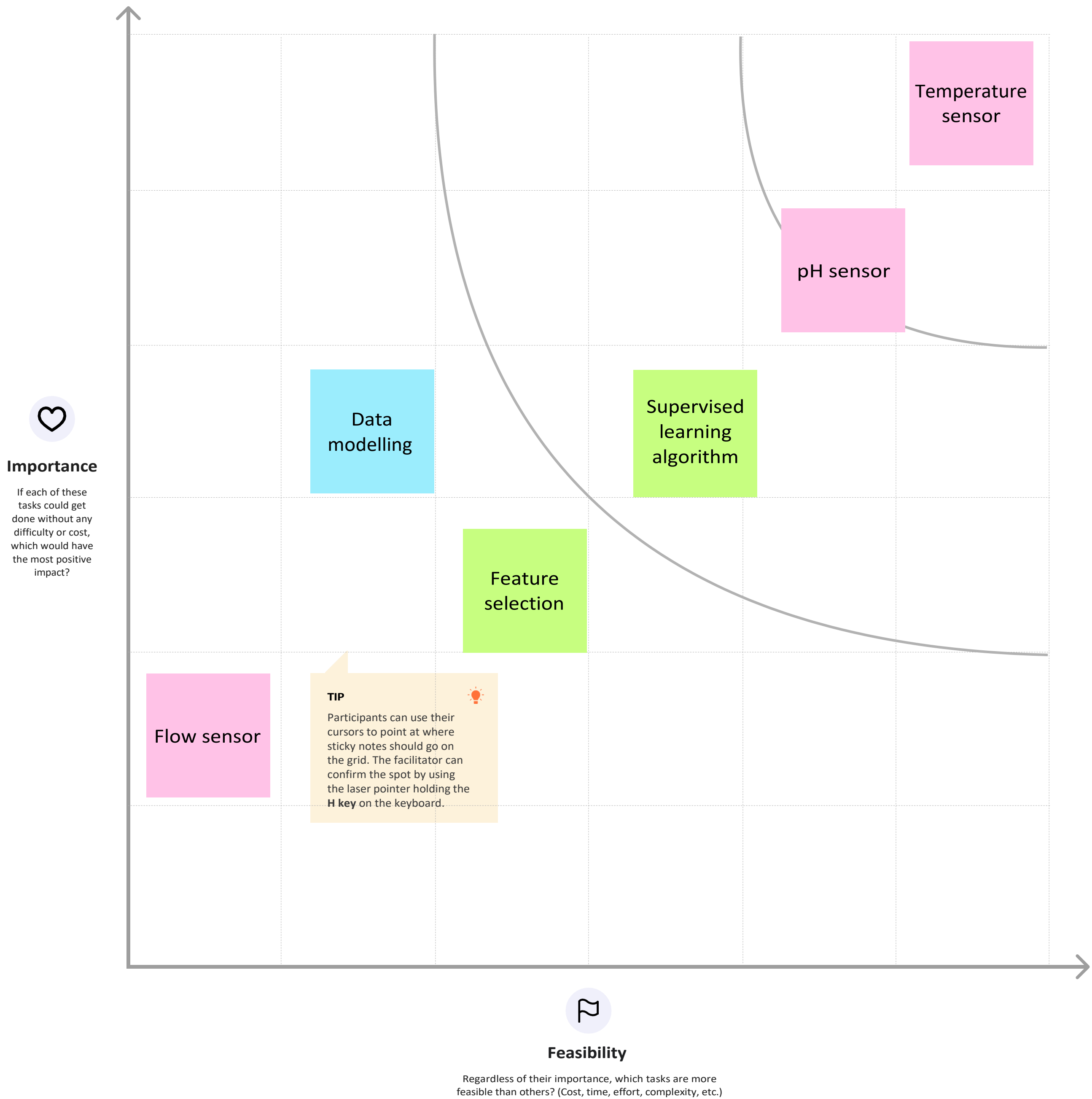
A method like neuro-fuzzy inference system can be implemented which is capable of integrating linear and non-linear relationships in dataset.

Feature selection helps to simplify the procedure and reduce computational cost of analysis.

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





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 →](#)



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