


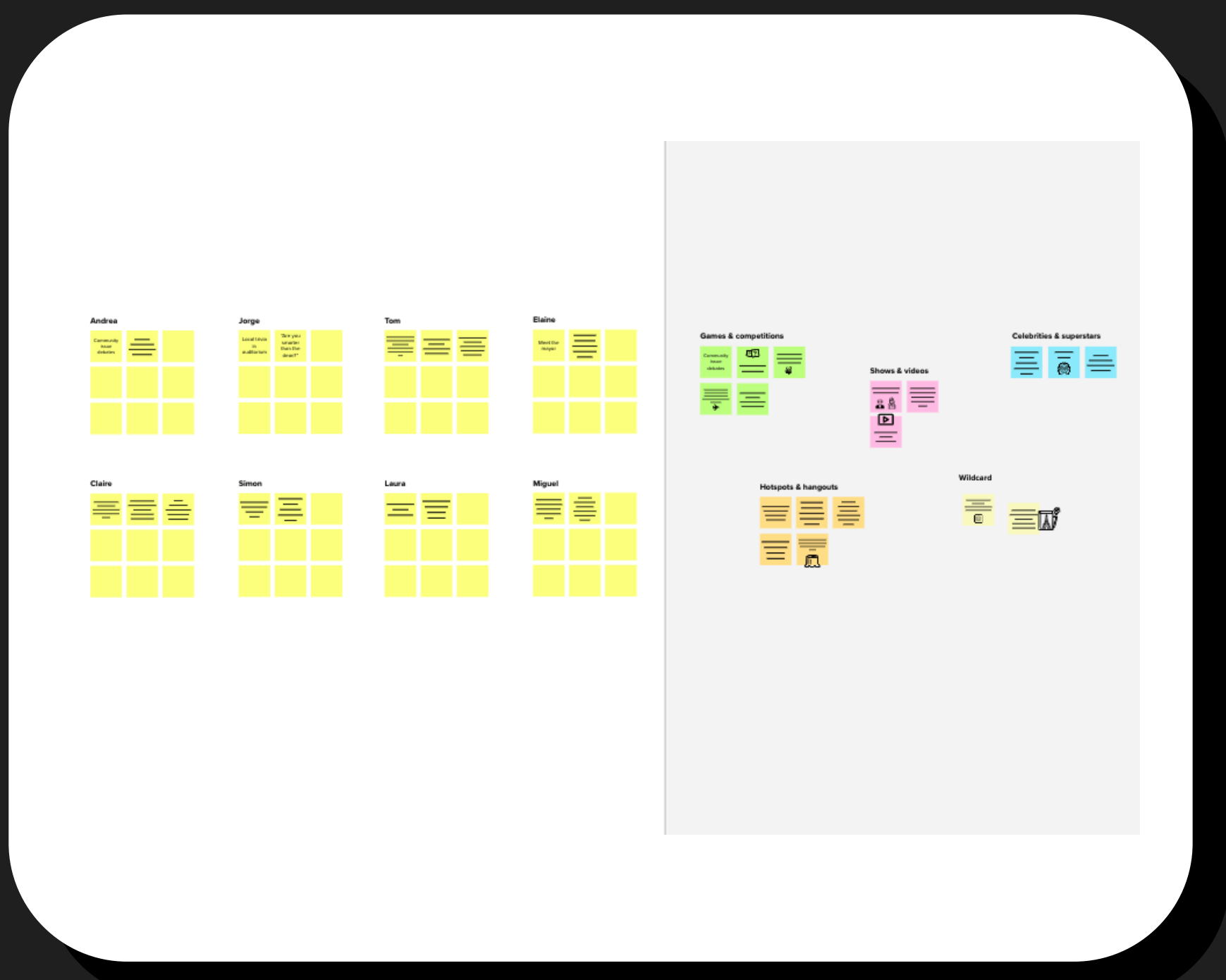


Brainstorm & idea prioritization

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

 [Share template feedback](#)



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 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

RANJITH

USE OF MINIMAL NUMBERS OF PARAMETERS WITH SENSOR TO PREDICT WATER QUALITY

THE SIZE OF TRAINING DATA SETS SHOULD NOT BE LESS THAN THE NUMBER OF TRAINING PARAMETERS REQUIRED IN THE MODEL.

GENERAL FILTERATION OF WASTE WATER SAMPLES.

ACCYRATE MODEL CAN BE SELECTED BASED ON THE OUTCOME IN THEMODEL EVALUATION

KEEP THE DATA DESIGN

MACHINIZED BULK WATER LESS TIME CONSUMPTION.

WATER CONDUCTIVITY SENSORS ARE USED IN WATER QUALITY APPLICATIONS TO MEASURE HOW WELL A SOLUTION CONDUCTS AN ELECTRICAL CURRENT

CALCULATING THE ANIONS AND CATIONS PRESENT IN WATER

OVER VIEW: AUTOMATIC TEMPERATURE COMPENSATION FOR THE CHANGING TEMPERATURE OF THE WATER BODY.

SANJAIKUMAR

Evaluating the effect of substantial nutrient loads on overall water quality

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

The timeline of the measurements must be recorded

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.

using in the real time application

BASKAR

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

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

Data modelling to use the past dataset to inform the future effor

Variable importance analysis can increase the accuracies of the models.

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

Various techniques can be included to predict the quality within the application.

chemical oxygen demand (COD sensor)

vignesh

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.

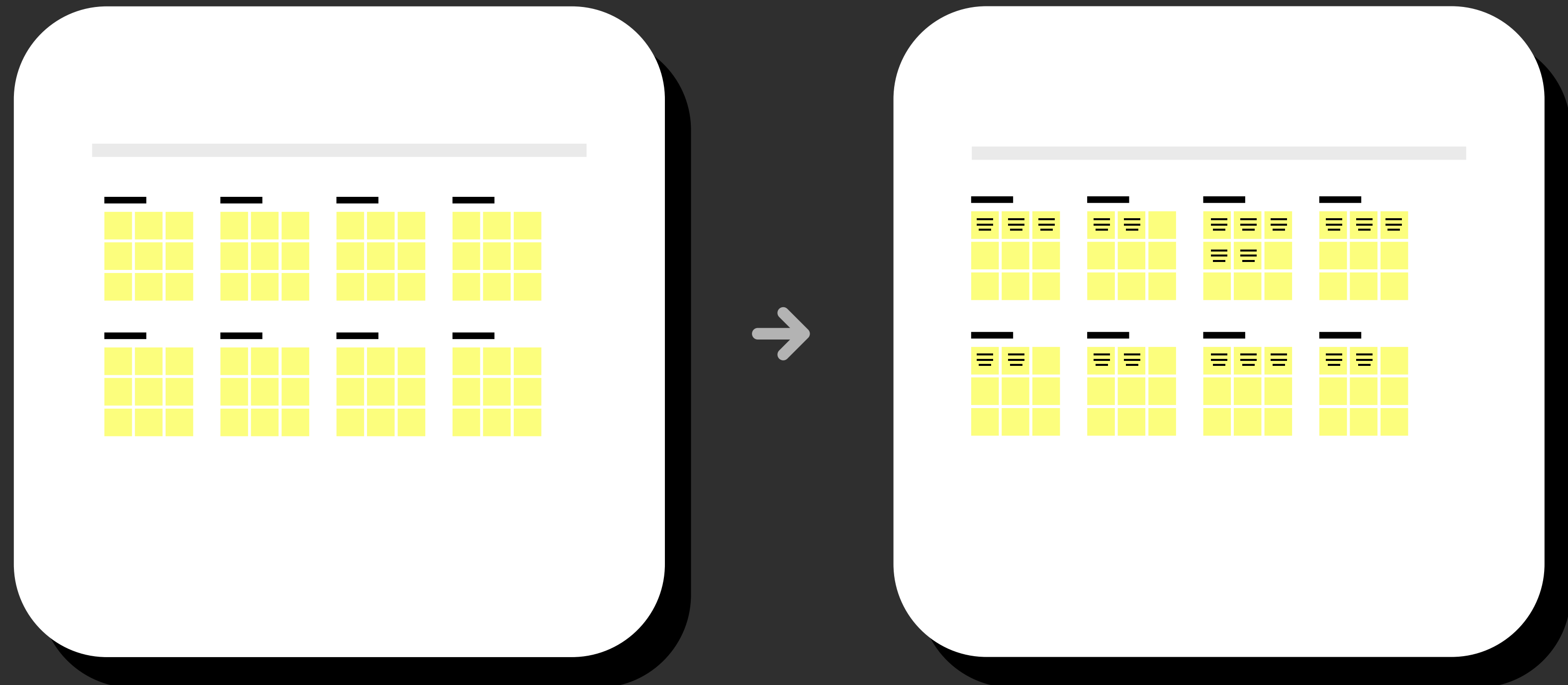
Water temperature indicates whether the water is cold or hot. The range of temperature sensor is 55 to +125° C

person 5

Person 6

Person 7

Person 8

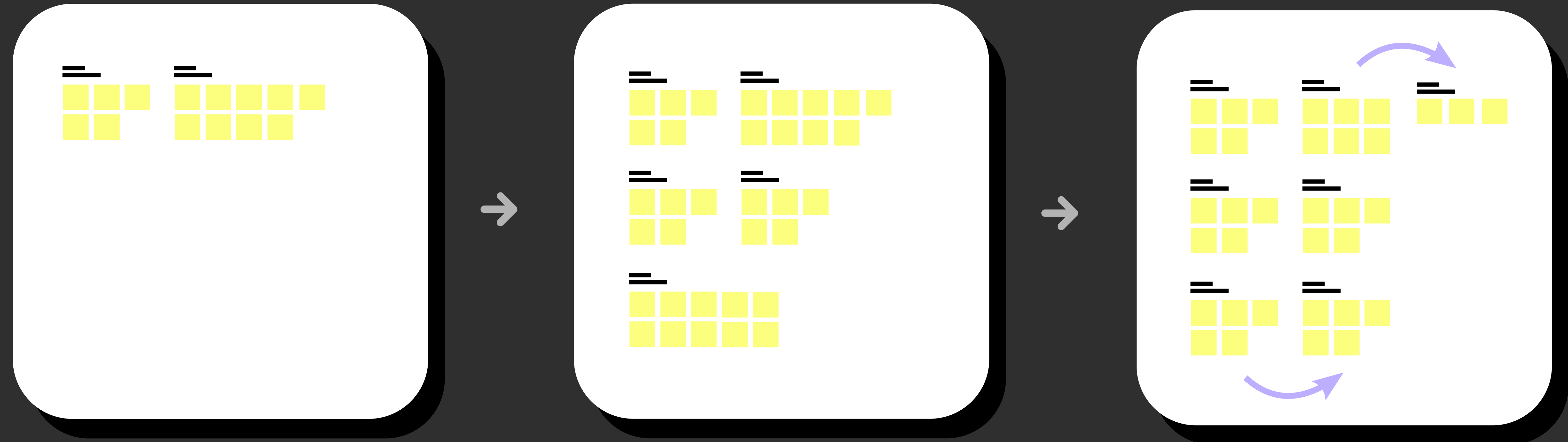


Group ideas

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 can break it up into smaller sub-groups.

 20 minutes

<div>sensor</div>		<div>data analysis</div>	<div>technique</div>
chlorine sensor is designed to measure the amount of chlorine in a solution. Turbidity sensor can be used .It is a measure of cloudness of water. Flow sensor: Flow sensor is used to measure the flow of water.		the data mining techniques will be used for applying the classification of the methods for water quality application. and data modelling to use the past dataset to inform the future efforts of the EACH data needs to be in differents of measures to analyse the quality	Evaluating effect of the substantial nutrient loads on overall water beross eros validation can used
Water temperature indicates whether the water is cold or hot. The range of temperature sensor is 55 to +125°CWater temperature indicates whether the water is cold or hot. The range of temperature sensor is 55 to +125°C		each data needs to be iin different measures to beanalyse the quality	Using supervised learning algorithm, water quality class can be predicted .



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

