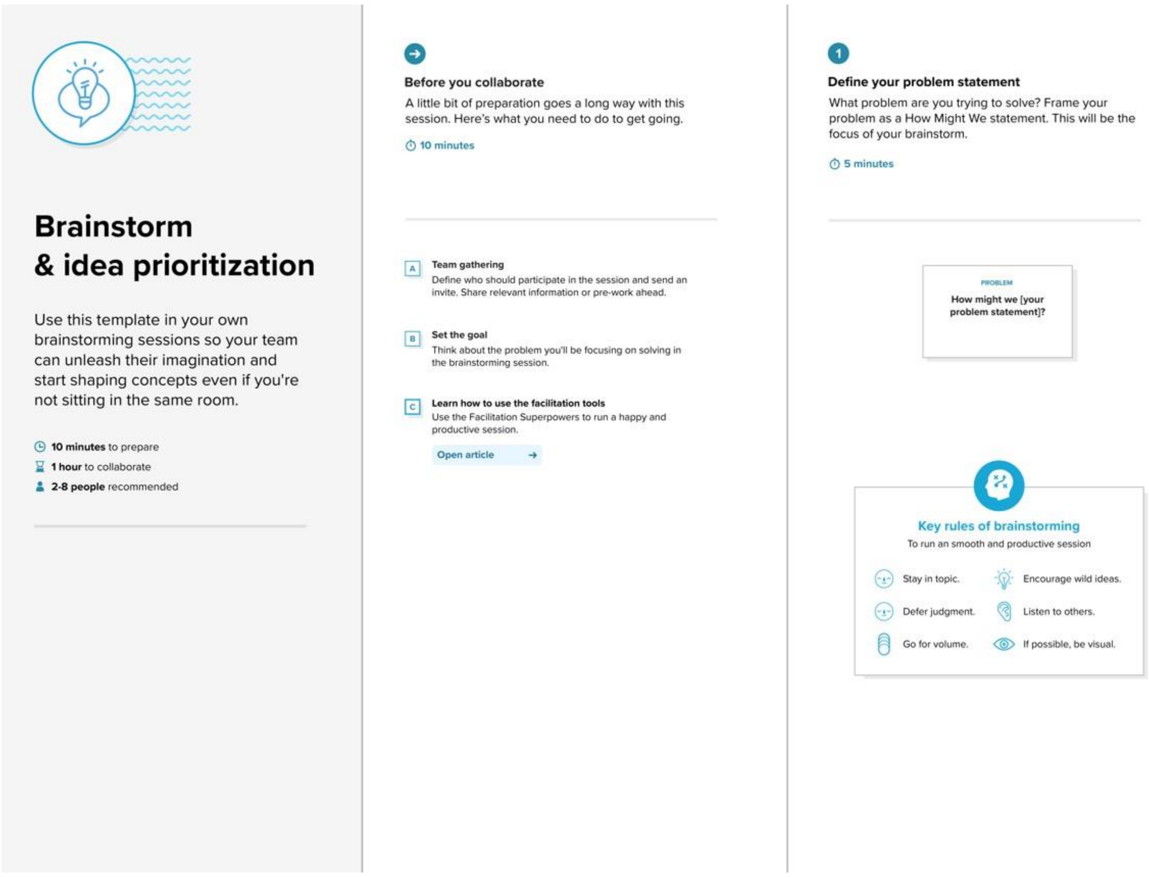
Ideation Phase

Date	03 November 2022
Team ID	PNT2022TMID10541
Project Name	Real-Time River Water Quality Monitoring and Control System Using IOT
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization

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



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

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.

1 **Define your problem statement**

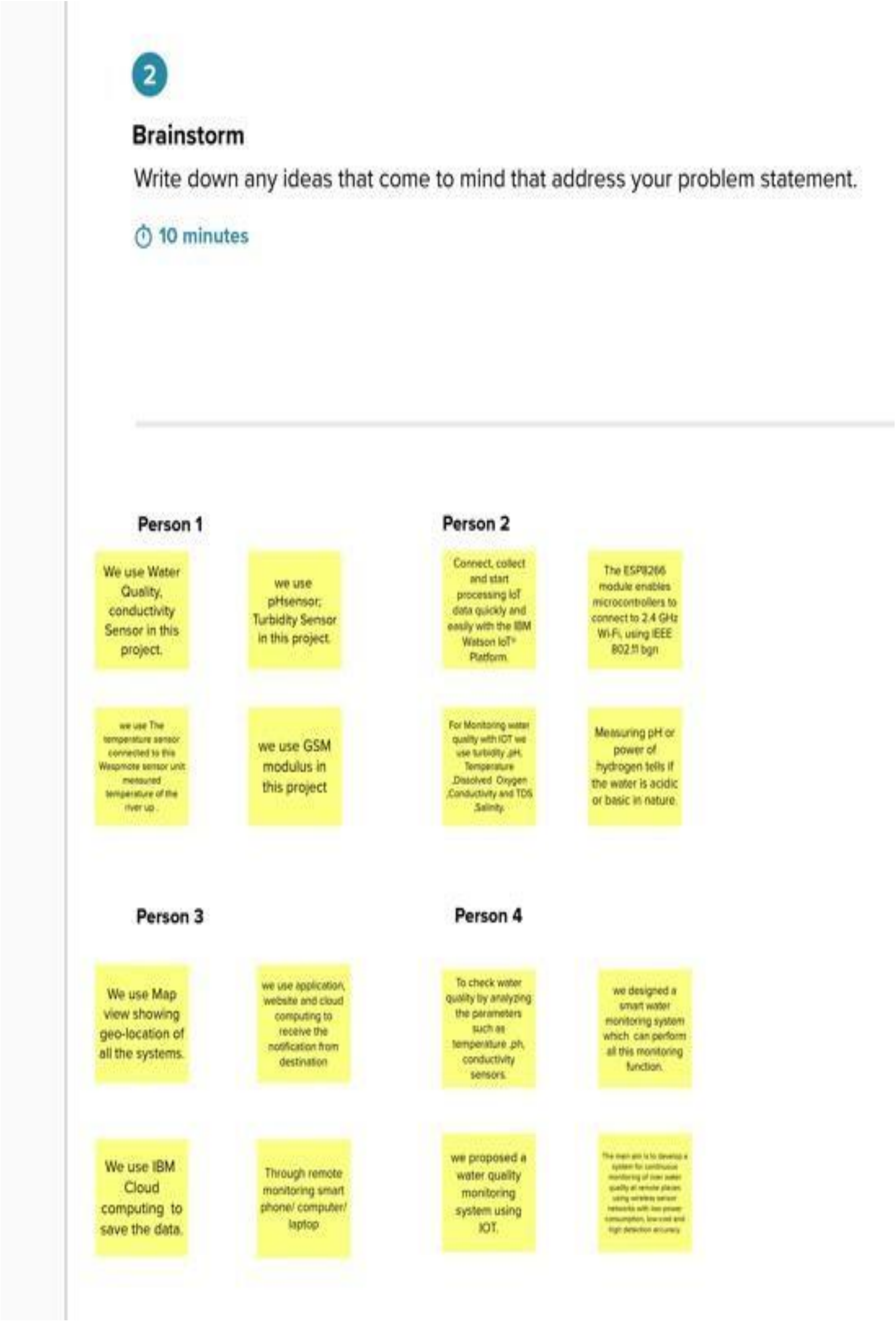
What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

PROBLEM
How might we [your problem statement]?

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.



2

Brainstorm

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

10 minutes

Person 1

We use Water Quality, conductivity Sensor in this project.

we use pHsensor; Turbidity Sensor in this project.

we use The temperature sensor connected to this Waspmote sensor unit measured temperature of the river up .

we use GSM modulus in this project

Person 2

Connect, collect and start processing IoT data quickly and easily with the IBM Watson IoT® Platform.

The ESP8266 module enables microcontrollers to connect to 2.4 GHz Wi-Fi, using IEEE 802.11 bgn

For Monitoring water quality with IOT we use turbidity ,pH, Temperature ,Dissolved Oxygen ,Conductivity and TDS ,Salinity.

Measuring pH or power of hydrogen tells if the water is acidic or basic in nature.

Person 3

We use Map view showing geo-location of all the systems.

we use application, website and cloud computing to receive the notification from destination

We use IBM Cloud computing to save the data.

Through remote monitoring smart phone/ computer/ laptop

Person 4

To check water quality by analyzing the parameters such as temperature ,ph, conductivity sensors.

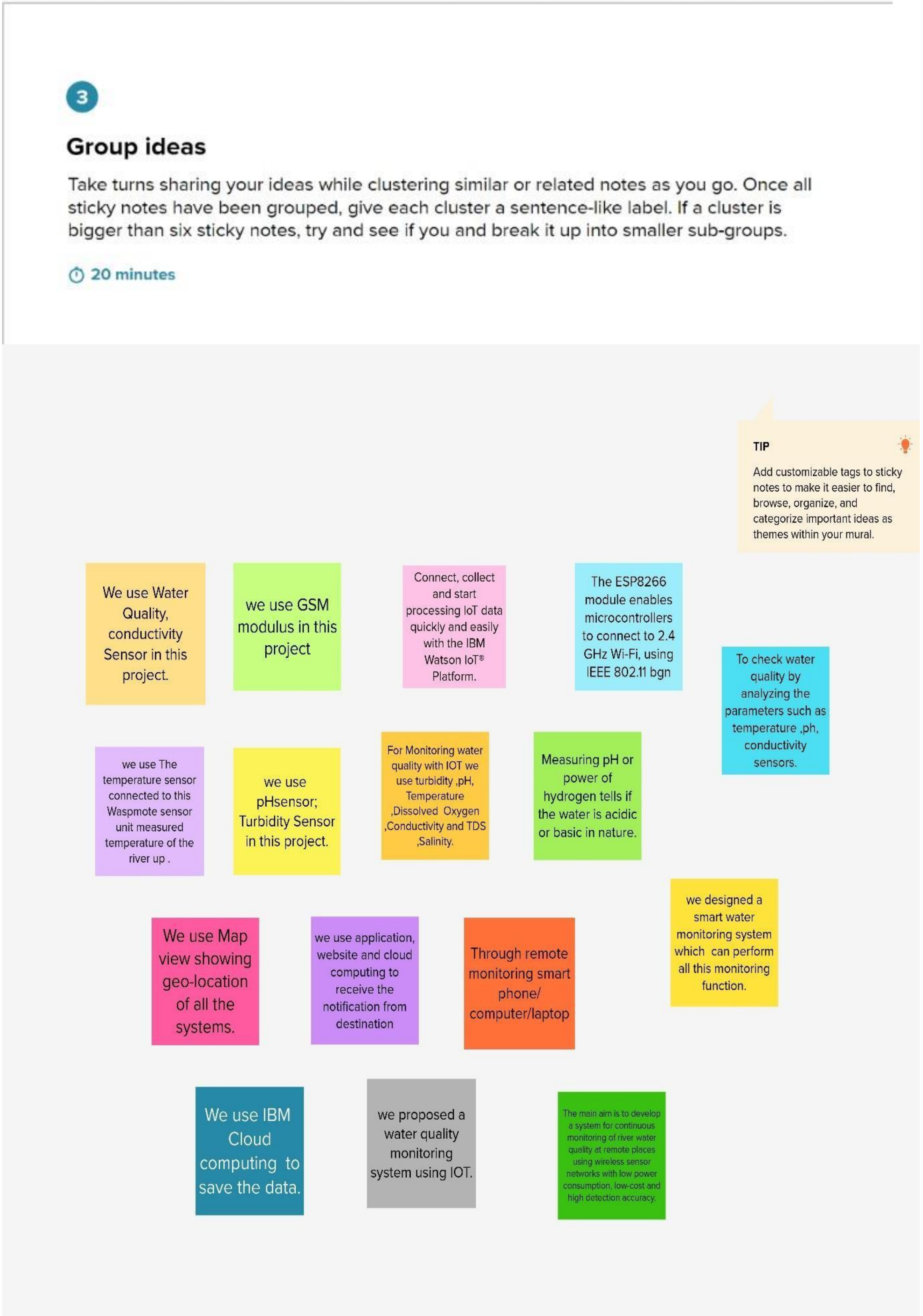
we designed a smart water monitoring system which can perform all this monitoring function.

we proposed a water quality monitoring system using IOT.

The main aim is to develop a system for continuous monitoring of river water quality at remote places using wireless sensor networks with low power consumption, low cost and high detection accuracy.

Step-2: Brainstorm, Idea Listing and Grouping

Step-3: Idea Prioritization



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

TIP

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

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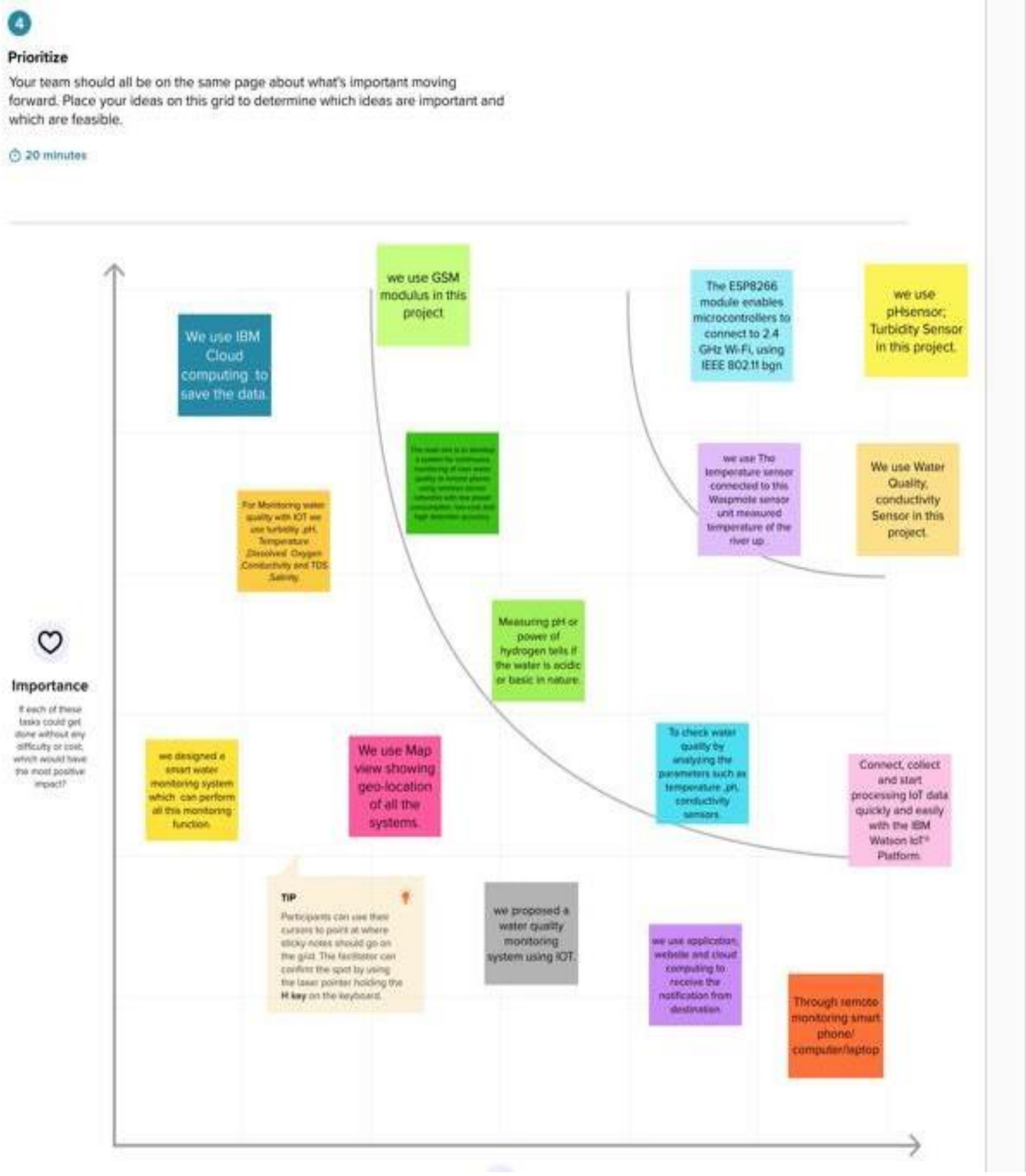
4

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



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Importance

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

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Connect, collect and start processing IoT data quickly and easily with the IBM Watson IoT™ Platform.

TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H key** on the keyboard.

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