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

This project will replace the static boards to smart signed boards that will change the speed limits according to the weather climate and show diversion messages if there is accidents in the road and alert messages if there is hospital,schools or any roadworks.

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

TIP

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

MOHAMED ABDULLAH

We can digitalize the boards that can even more clearly visible to drivers.

The sign boards have button mode and that button is used when there is no network connectivity.

Using IOT device,the accidents happened in the road can be alerted to the other drivers.

Traffic signals will change automatically by detecting the moving using PIR sensor on the crosswalks.

Using cloud communications the data can be shared through network and the functions of the signs of the board can be controlled.

SEENI HABEBU MOHAMED

High brightness signs are used to improve road safety.

Using AI the traffic signals would be controlled for the people who using the crosswalks.

During off peak hours weather based speed limit is avoided and the speed limits can be changed according to the traffic.

Landslide will be detect using the sensors in the mountain roads and alerted to the smart signed boards.

Using weather API,the weather can be predicted and the weather will be displayed in the smart sign boards.

MOHAMED ABUSALIH

Regulatory checks of the sign boards improve the reliability of this system

Using GPS and radar the collision avoidance system can be introduced.

Driver attention detection by using sounds in the sign boards

Emergency numbers are provide to display in sign boards

Sensors are used to calculate the vehicle speed

SYED IRFANI

Smart signs are displayed through sign boards

Road diversion due to construction and traffic can be avoided

Based on the weather the speed limit in the sign board may increase or decrease using weather API.

Road safety digitalized and we'll improved through digital sign boards

Sign boards may not work some times due to no solar power and weather conditions

3

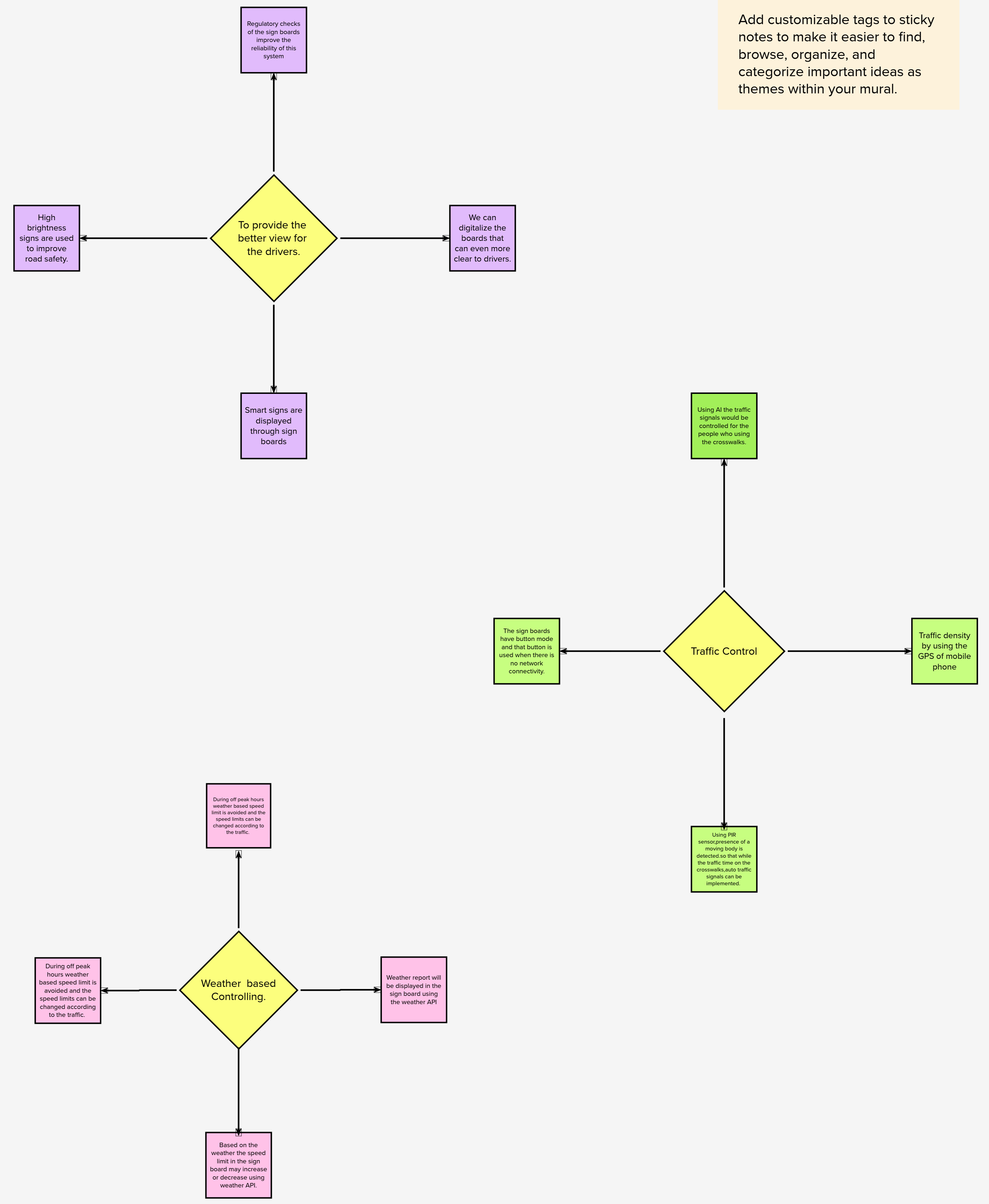
Group ideas

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 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.



To provide the better view for the drivers.

- Regulatory checks of the sign boards improve the reliability of this system
- High brightness signs are used to improve road safety.
- We can digitalize the boards that can even more clear to drivers.
- Smart signs are displayed through sign boards

Traffic Control

- Using AI the traffic signals would be controlled for the people who using the crosswalks.
- The sign boards have button mode and that button is used when there is no network connectivity.
- Traffic density by using the GPS of mobile phone
- Using PIR sensor,presence of a moving body is detected.so that while the traffic time on the crosswalks,auto traffic signals can be implemented.

Weather based Controlling.

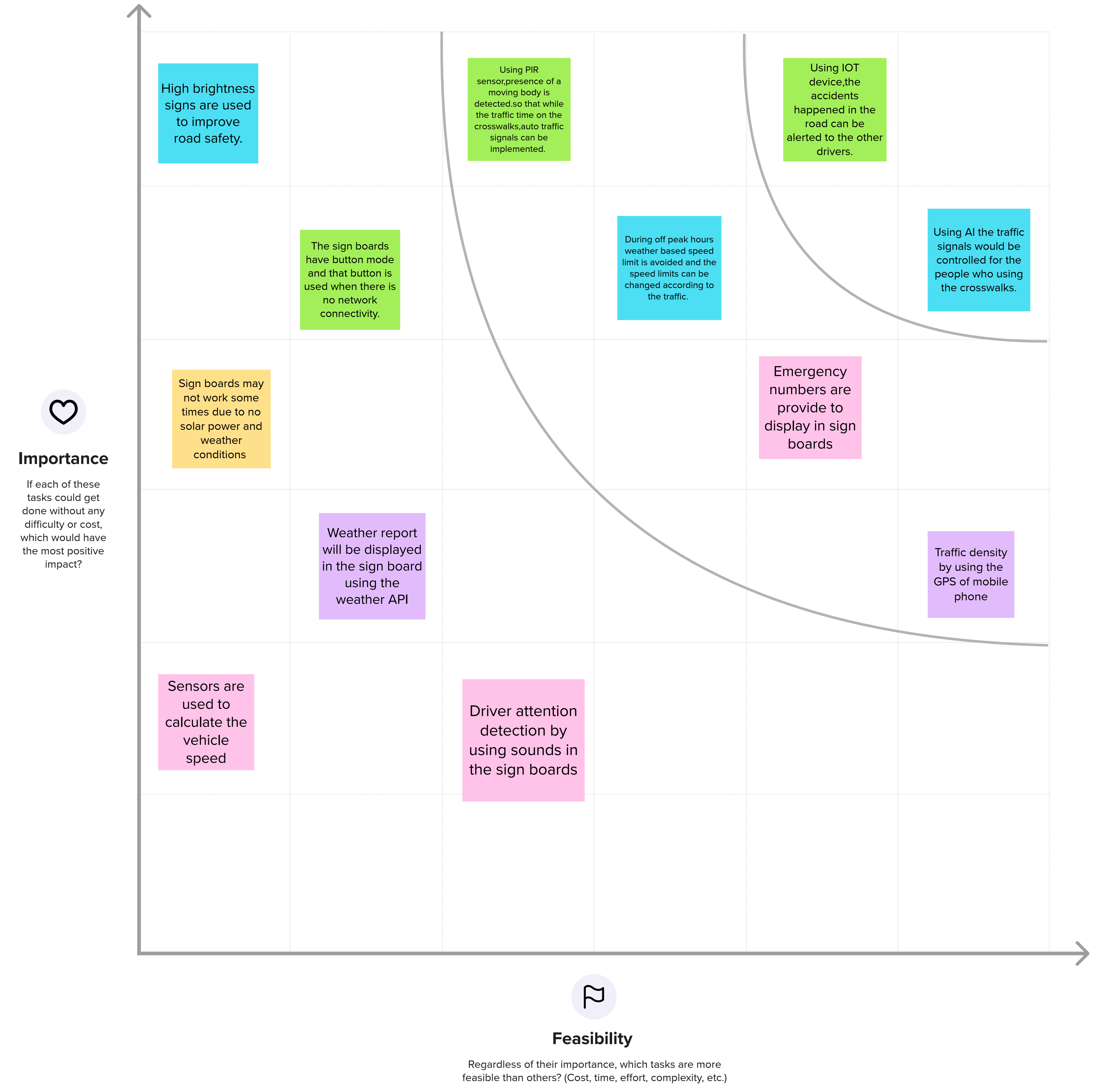
- During off peak hours weather based speed limit is avoided and the speed limits can be changed according to the traffic.
- During off peak hours weather based speed limit is avoided and the speed limits can be changed according to the traffic.
- Weather report will be displayed in the sign board using the weather API
- Based on the weather the speed limit in the sign board may increase or decrease using weather API.

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



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

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

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Driver attention detection by using sounds in the sign boards