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 brainstroming

1. To run an smooth and productive session
2. Stay in topic.
3. Defer judgment.
4. Go for volume.
5. If possible, be visual.
6. Listen to others.
7. Encourage wild ideas.

2

Brainstorm solo

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

⏱ 10 minutes

Gayathri B

- 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.
- Trafc 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.

Divyasri T S

- High brightness signs are used to improve road safety.
- Using AI the trafc 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.

Karishma R

- 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
- Sensors are used to calculate the vehicle speed
- Emergency numbers are provide to display in sign boards

Selvi M

- Smart signs are displayed through sign boards
- Road diversion due to construction and trafc can be avoided
- Road safety digitalized and we'll improved through digital sign boards
- Based on the weather the speed limit in the sign board may increase or decrease using weather API.
- Sign boards may not work some times due to no solar power and weather conditions

3

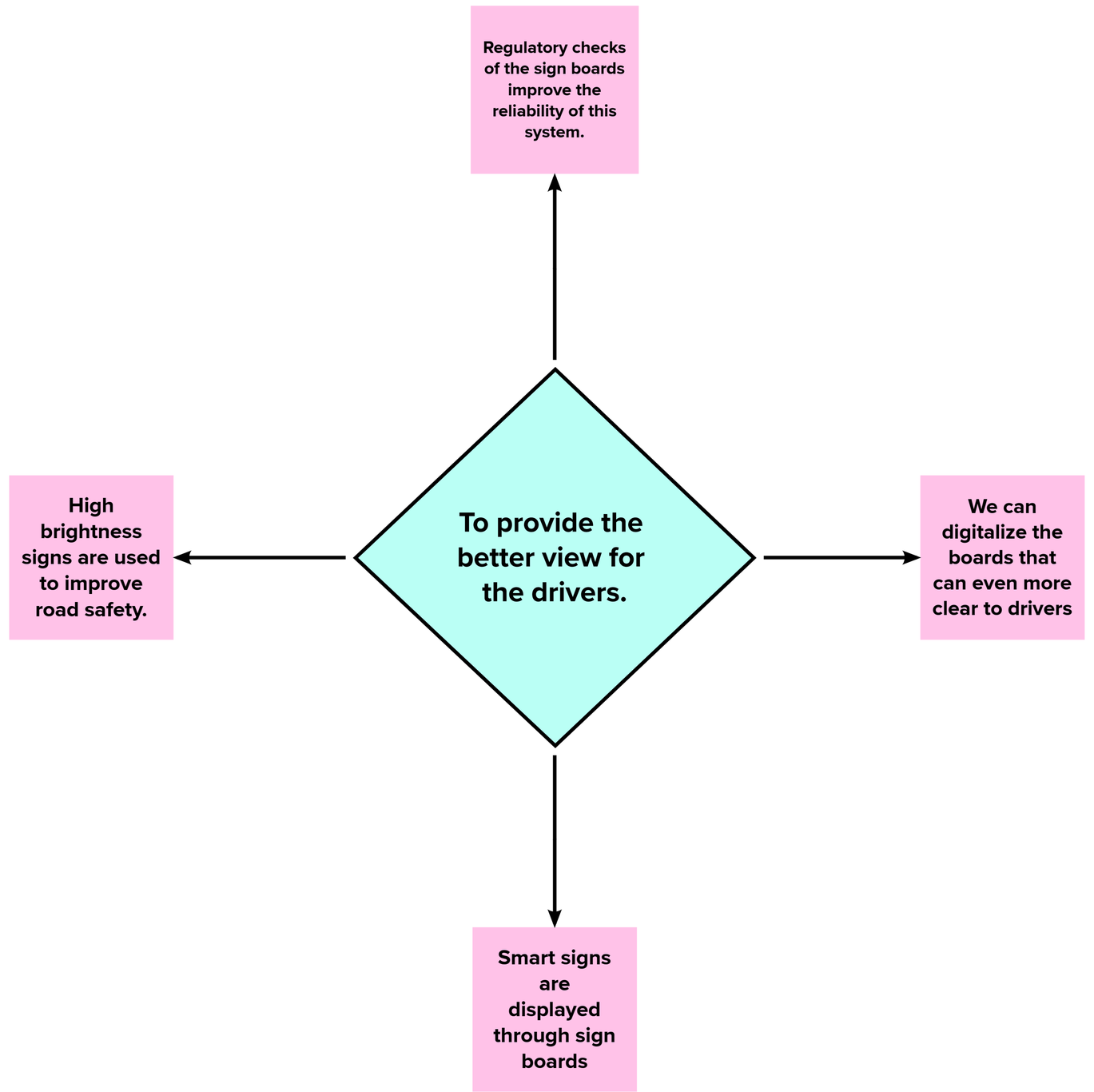
Group ideas

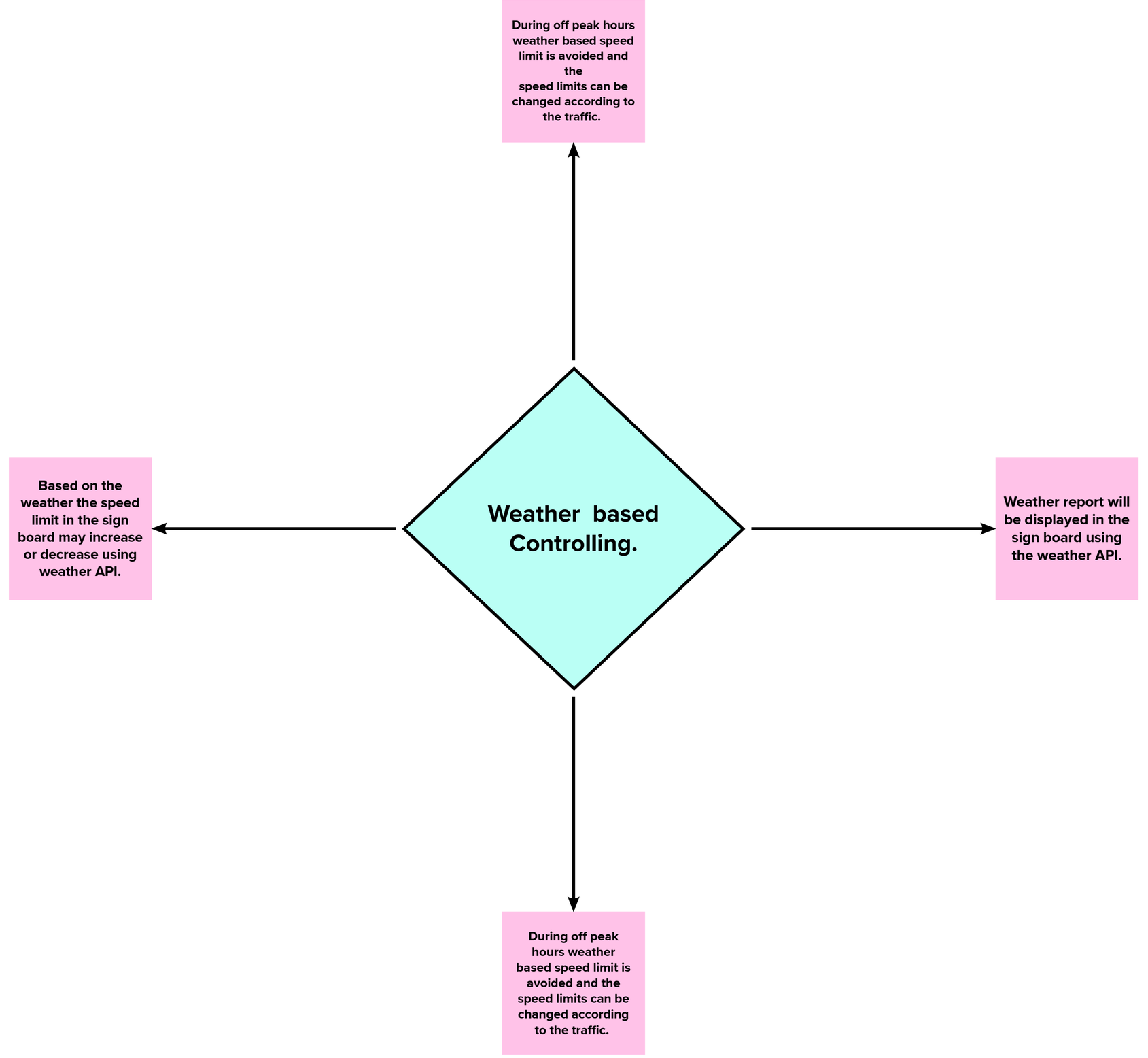
Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

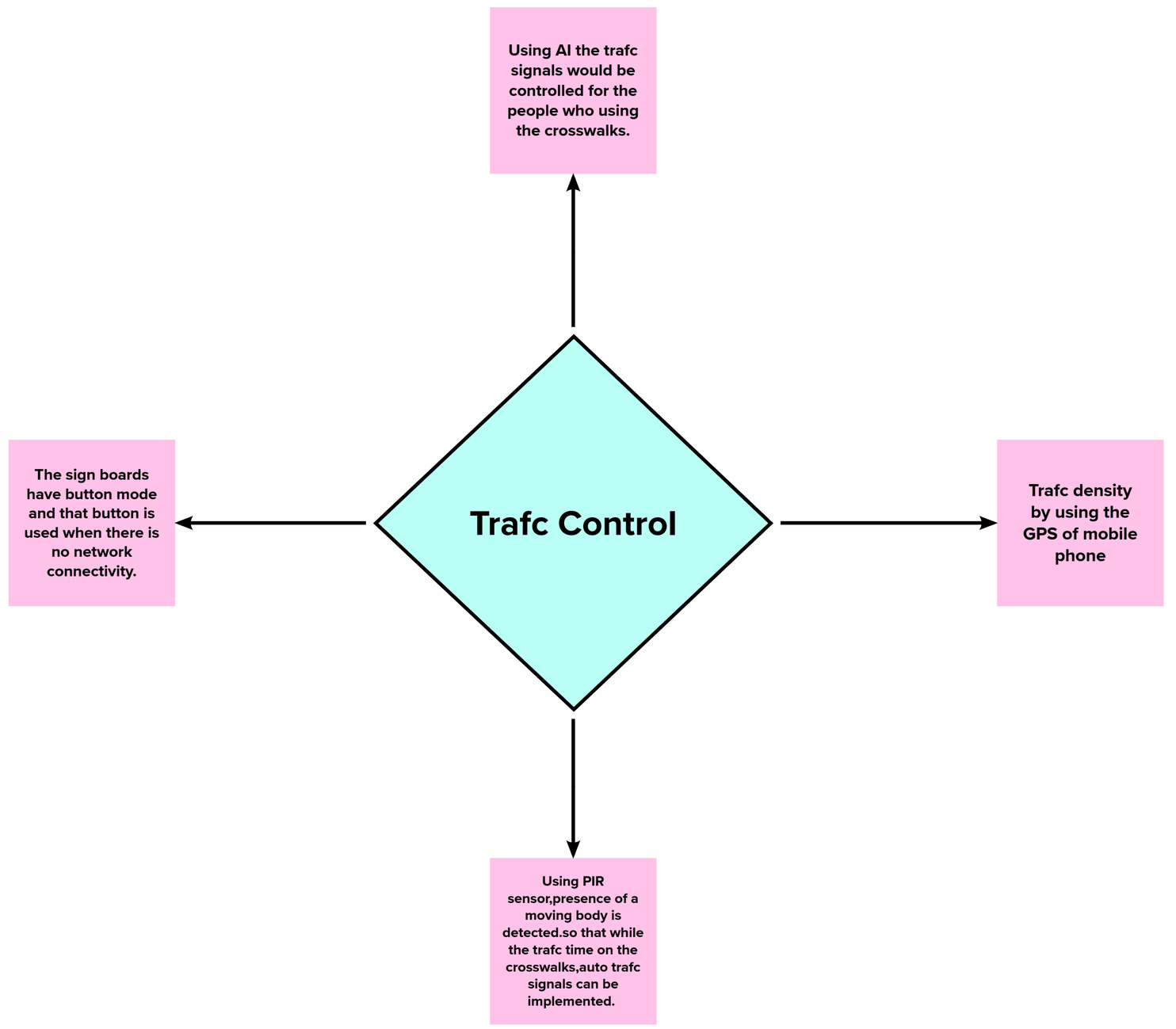
TIP

You can use the **Voting session** tool above to focus on the strongest ideas.

⏱ 15 minutes





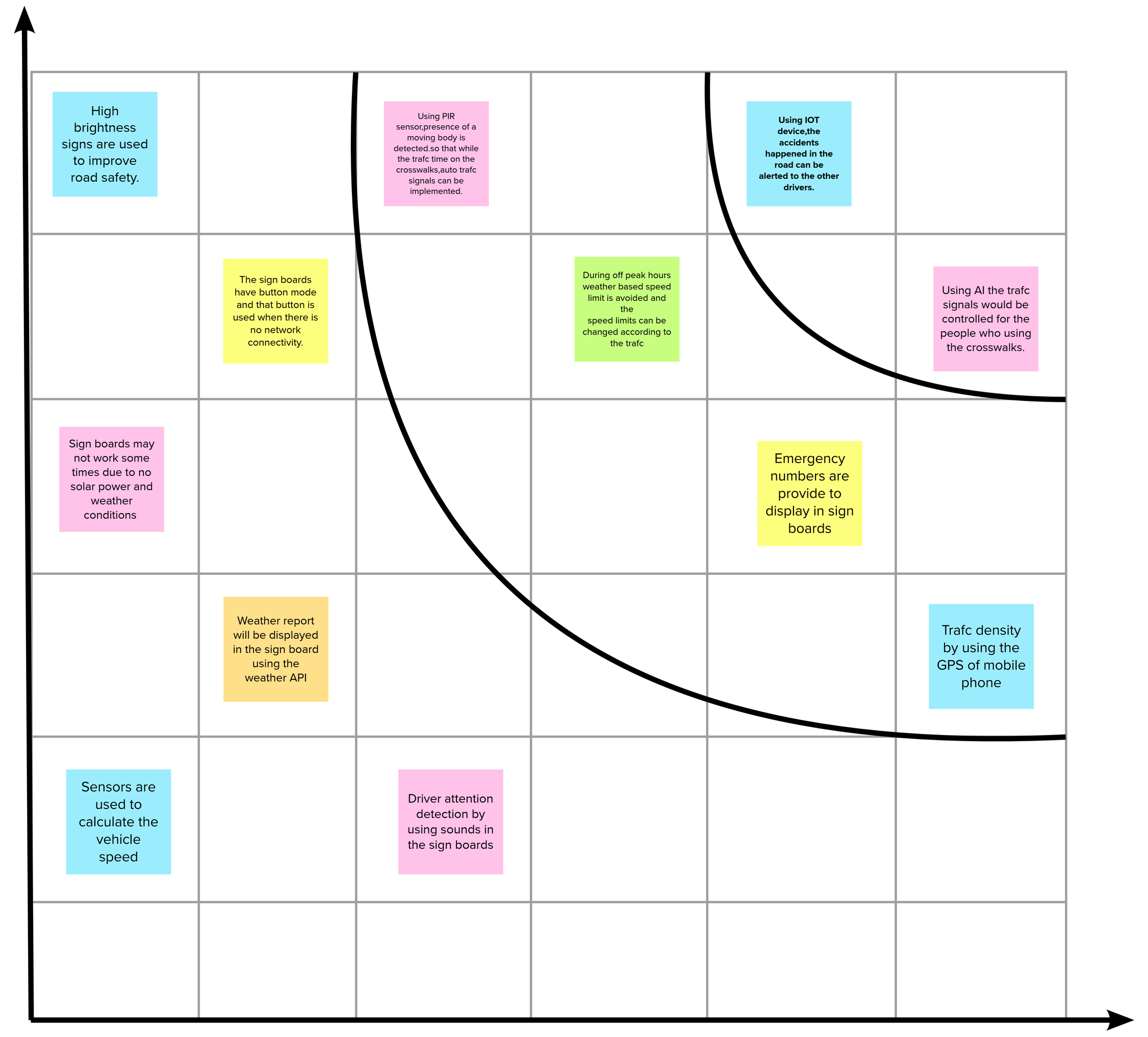


4

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 difculty or cost, which would have the most positive impact?

Feasibility:

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