

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

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.

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.

sketch icon to start drawing!

We can digitize the sign so that can cross more clearly visible to drivers.

Using IoT devices the signboards supported in the network can be updated to the other drivers.

Traffic signs will change automatically by detecting the moving car's PS signal on the crossroads.

Smart signs go displayed

Road diversion due to

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Emergency numbers are provided to display in the sign boards.

Sensors are used to calculate the vehicle speed. Sensors can be introduced.

Driver attention detection by using sound in the sign boards

The diagram illustrates the applications of smart signs in transportation infrastructure, centered around a road with a dashed white line. Six yellow callout boxes are connected to the road by lines, each describing a specific use of smart signs:

- Smart signs are displayed through sign boards:** Located at the top left, pointing to a sign board on the left side of the road.
- Road diversion due to construction and traffic can be avoided:** Located at the top right, pointing to a sign board on the right side of the road.
- Based on the weather the speed limit in the sign board may increase or decrease with weather data:** Located in the middle right, pointing to a sign board on the right side of the road.
- Road safety digitalized and will improve through digital sign-boards:** Located at the bottom left, pointing to a sign board on the left side of the road.
- Sign boards may not work once there is no solar power and weather conditions:** Located at the bottom right, pointing to a sign board on the right side of the road.

[illegible]

Traffic Control

Importance

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

- High brightness signs are used to improve road safety.
- The sign boards have button mode and that button is used when there is no network connectivity.
- 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.
- Using IOT device, the accidents happened in the road can be alerted to the other drivers.
- During off peak hours weather based speed limit is avoided and the speed limits can be changed according to the traffic.
- Sign boards may not work some times due to no solar power and weather conditions
- Emergency numbers are provide to display in sign boards
- Weather report will be displayed in the sign board using the weather API
- Sensors are used to calculate the vehicle speed
- Driver attention detection by using sounds in the sign boards

Feasibility

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