

Problem Statement

How might we reduce accident in acccident prone zones with the help of LED smart signs, which includes a weather monitoring systems and gives instant information regarding upcoming road such as road damage, speed limit suggestion and some advanced ideas for safe travel?

30 minutes to prepare

1 hour

Collaboration

Created in partnership with

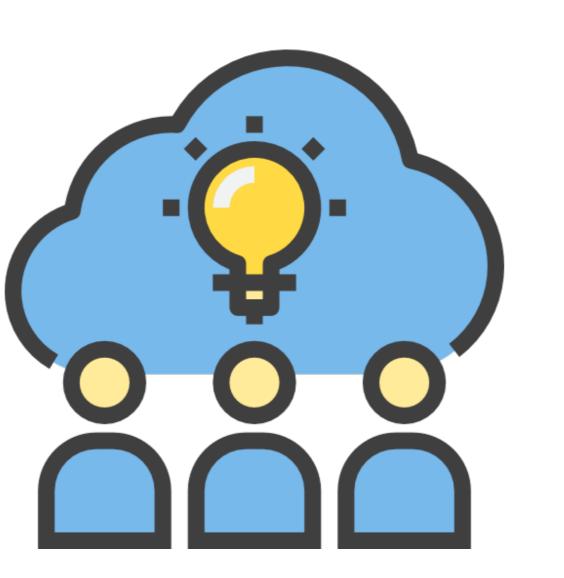
LUMA INSTITUTE



Group Ideas

Suggestion of nearby crowded places such as schools, colleges, hospitals

It gives an accurate update on weather monitoring which gives an idea for iot drivers in route fnding and deciding speed limits



Brain Storm

PRAGATHII AU

ANUSUYA SLK

HEMANANTHINI

MEGHAA N

It helps in reducing risks for accident

Weather Monitoring

Clearly visible boards even in bad weather.

Collect weather details from APIs and update board accordingly

Smart LED signs are visible from afar

Send alerts if accident prone zone

Displaying condition of the road that lies ahead beforehand so the driver can change their route.

Collect traffic details in a city or road from GMaps etc and update sign boards accordingly

If vehicle speed is more than road speed limits than it generate user alert by buzzer.

Suggest speed limit while driving

Display time taken to reach a destination in the board. For example, Coimbatore-Salem highway can display that 2 hours on this road to reach Salem

Identify mobiles around a particular board and send an update to mobiles

It can provide real-time information to the user about the status of the traffic light.

If the vehicle speed is more than the limit send alert to driver

Social messages can also be added. Like, wear a helmet. Wear mask etc

Use solar panel powered LED boards, so that we can conserve electricity and make the boards visible even during night