SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

PROBLEM STATEMENT

Traffic Signs play an important role in controlling the roadway traffic and also in avoiding accidents . Still there are many problems that one might face while travelling on the road . Some of the drawbacks of current traffics signs are listed below.

- Speed limits are same under any climatic conditions.(for ex: It is not recommended to travel in the same speed limit during rainy season).
- Should rely on Google maps for traffic intensity etc.
- Any updates of the accidents happened on the route are not known to the driver travelling by the same route.

So in order to overcome these problems , we have to propose a system satisfying the below conditions.

- To replace the static signboards, smart connected sign boards are used.
- These smart connected sign boards get the speed limitations from a web app using weather API and update automatically.
- Based on the weather changes the speed may increase or decrease.
- Based on the traffic and fatal situations the diversion signs are displayed.
- Guide(Schools), Warning and Service(Hospitals, Restaurant) signs are also displayed accordingly.
- Different modes of operations can be selected with the help of buttons

Addressing the w's of the Problem

Question	Description
Who does the problem effect?	Roadway Passengers
What are the boundaries of the problem?	Roadways
What is the issue?	Old fashioned Static signboards are not always reliable i.e. same signs or speed limits are not recommended for all weather conditions and also there is no technology to display the diversions those have to be taken in case of any accident on the route etc.,
When does the issue occur?	• During abnormal climatic conditions. • When diversions have to be taken because of traffic intensity or accident.
Where is the issue occurring?	• Daily life roadway journeys.
Why is it important that we fix the problem?	Smart Traffic signboards have to be fixed in order to cope up with the increasing traffic intensity and in order to make our traffic system efficient.