

## Project Design Phase-I Proposed Solution

Date	25 September 2022
Team ID	PNT2022TMID49499
Project Name	Title:Signs with Smart connectivity for better road safety
Team Leader	M.Vijayasiva
Team Member	M.Sivaprakash, P.Shanmugasundaram, S,Udhayanithi
Maximum Marks	2 Marks

### Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

	Parameter	Description
1.	<b>Problem Statement (Problem to be solved)</b>	In Static Signboard ,The road sign and the speed limits are static, In some cases due to heavy traffic or accidents then we can change the road signs accordingly if they are digitalized.
2.	<b>Idea / Solution description</b>	If there is rainfall then the roads will be slippery and the speed limit would be decreased by dynamically change signs.To avoid the traffic by prediction of traffic jam or accidents in earlier to take diversion of road.
3.	<b>Novelty / Uniqueness</b>	Traffic detection using IOT.
4.	<b>Social Impact / Customer Satisfaction</b>	The social impacts of road traffic can defined as not for environment safety as the effects of traffic creates air pollution, noise, which are linked with several health concerns ,it also Increases in traffic levels to increase collision risk for people's that problem are overcome by using Smart connectivity for better road safety it is environment friendly.
5.	<b>Business Model (Revenue Model)</b>	

		<pre> graph TD     BM((Business model))     M((Municipality 1. Financial support 2. Decreased pollution))     S((Safety 1. improved road safety management 2. improved post crash response))     RO((Road operator 1. Parking information 2. Provide in car information))     TI((Traffic information 1. Isolated junction control 2. Traffic prediction))     MFA((Many field of action 1. Traffic police related 2. School related))     PTO((Public transport Operator 1. Operative public transport 2. Increased revenue))     SRS((Safe road system 1. Increasingly free of death and serious injury))     ME((Monitoring &amp; Evaluating 1. Safe speed is implemented, so this modern world called as environment friendly))      M --&gt; BM     S --&gt; BM     RO --&gt; BM     TI --&gt; BM     MFA --&gt; BM     PTO --&gt; BM     SRS --&gt; BM     ME --&gt; BM           </pre>
6.	<b>Scalability of the Solution</b>	<p>Using weather Prediction in earlier stage that lead to help the people to slow down speed by indicating the sign and by knowing the accident or traffic jam before that leads to people take diversion other way. This solution will help to decrease the death rate up to 80%</p>