

Project Design Phase-I
Proposed Solution Template

Date	26 September 2022
Team ID	PNT2022TMID02410
Project Name	Project - Signs with Smart Connectivity for Better Road Safety
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In present system the road sign and speed limits are static. But in case of heavy traffic, road accidents and diversions then we cannot change road signs accordingly based on immediate needs.
2.	Idea / Solution description	If the road signs are made digitalized or can be changed dynamically, in case of heavy traffic, road accidents and diversions then we can change road signs accordingly.
3.	Novelty / Uniqueness	By using an innovative ways to improve traffic flow, reduce congestion, regulate the patterns of traffic, and create an optimal balance of public and private transportation.
4.	Social Impact / Customer Satisfaction	We need to explore more cost-effective ways to strengthen the infrastructure. Building roads is expensive. While there is no substitution for new and upgraded roads, smart roadway indicators can be added to increase efficiency.
5.	Business Model (Revenue Model)	A primary reason for developing these route is to make the roads safer for all of us. The enhanced signage creates a more efficient experience for drivers. It can also complement the system designs of driverless cars.
6.	Scalability of the Solution	The value of implementing this technology should not be underestimated. Smart roadway indicators have the potential to increase cost-efficiency, which eases the burden on governments and taxpayers. They facilitate a smoother driving process for both human drivers and autonomous vehicles.