

Project Design Phase-I
Proposed Solution Template

Date	07 October2022
Team ID	PNT2022TMID17220
Project Name	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)	<ul style="list-style-type: none"> ✓ Fire Brigade dealing with fire incidents related to accidents on the roads ✓ Hospitals dealing with attending to accident victims ✓ Drivers related to driving behavior mind set, driving licenses, offences, and penalties
2.	Idea / Solution description	<ul style="list-style-type: none"> ✓ Road safety involves the management of roads, cars, and drivers and key actors are involved in this process which is traffic police, Tanzania Roads Agency ✓ ANROAD, Fire Brigade, TRA, SUMATRA, and Traffic Police interact in one way or another in their daily routine handling of traffic offences
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ✓ Enforcement has therefore been a problem since information on accident incidents rely on that collected by a sole police officer manually when they arrive at the scene of the accident physically ✓ The existing systems hosted by different stakeholders do not see each other since most of their specification were vendor-driven without integration focus even for database systems under one entity
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ✓ Multimodal sensors and edge computing help speed up the flow of traffic with real-time processing, reducing congestion and emissions. ✓ Smart road technology can assist in optimizing traffic flow and managing road conditions, creating a more sustainable environment within cities

5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ✓ Connected vehicles could dramatically reduce the number of fatalities and serious injuries caused by accidents on our roads and highways ✓ potential of connected vehicles, they also promise to increase transportation options and reduce travel times
6.	Scalability of the Solution	<ul style="list-style-type: none"> ✓ The study has shown that every part of the community is affected in one way or another by road safety, be it in the developed or in developing countries ✓ Close observations made in some of the areas that are prone to violations that result in accidents has shown that enforcement has a much higher impact in addressing road accident problems than increasing fines several folds.