## Project Design Phase Proposed Solution Template

Date	21 June 2025
Team ID	LTVIP2025TMID45739
Project Name	TrafficTelligence: Advanced Traffic Volume
	Estimation with Machine Learning
Maximum Marks	2 Marks

## **Proposed Solution:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be	Urban areas face severe traffic congestion due
	solved)	to poor real-time monitoring, static signal
		control, and lack of predictive traffic
		management systems. This leads to longer
		commute times, increased fuel consumption,
		and delayed emergency responses.
2. Idea / Solutio	Idea / Solution description	Traffic Telligence is an Al-powered traffic
		intelligence platform that collects and analyzes
		real-time data from sensors, CCTV, and GPS. It
		dynamically adjusts signal timings, predicts
		congestion, provides route recommendations,
		and offers a centralized dashboard for
		authorities to manage traffic effectively.
3. Novelty /	Novelty / Uniqueness	Unlike static systems, Traffic Telligence uses
		machine learning and real-time data analytics
		to proactively manage traffic. It adapts to peak
		hours, detects unusual traffic build-up, and
		integrates with existing infrastructure, making
		it cost-effective and scalable.
4.	Social Impact / Customer Satisfaction	Reduces daily commuter stress, improves
		emergency response time, lowers emissions
		from idling vehicles, and enhances the overall
		urban living experience. It empowers city
		authorities with better control, leading to
		higher public satisfaction.
5.	Business Model (Revenue Model)	B2G (Business to Government) SaaS model.
		Revenue generated through annual
		subscription fees, tiered based on city size and
		traffic data volume. Optional add-ons include
		citizen-facing mobile apps and analytics
		reports.
6.	Scalability of the Solution	Designed to scale from small towns to large
		metropolitan cities. Modular architecture
		allows phased deployment. Cloud-based
		backend ensures support for growing data and
		user demand across regions.