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# Proposed Smart Traffic Light System Methodology

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**Abstract:** It is an intelligent system that adjusts count of Traffic light on the basis of amount of traffic on street. The system scans the number of vehicle present according to the density of traffic present and saves time by allowing large number of vehicles with large time count and less number of vehicles with less time.

## I. INTRODUCTION

In this We have proposed a system that calculates the range of traffic and gives a count based on the number of vehicles standing against the traffic light. It saves time as less count is given for less number of vehicle and more time is given for heavy traffic having more number of vehicles.

### A. Flowchart

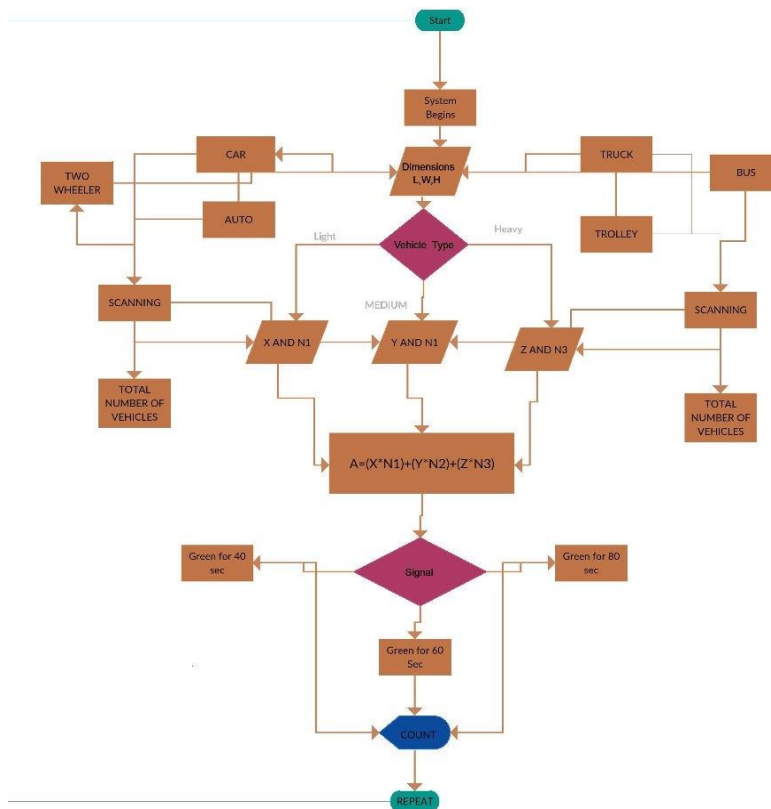


Fig. 1. Flowchart of the Proposed Traffic Light System

## II. PROPOSED CALCULATIONS

In this scenario, calculations are done in excel sheet taking dimension of road as 15 (standard) in MM as width of road. Number of vehicles are calculated by dividing width of individual vehicles with total width of road.

Suppose if a vehicle is standing on road, then first the number of vehicles will be calculated using its standard dimension in width and which will be divided by the standard Bwidth of Road on highway (for instance 15 meter here) and depending upon the further calculations, normal, heavy or medium traffic will be calculated as follows: Normal= 1, Medium=2, Heavy=3 and depending upon the intensity of traffic, a range count is given like: SHORT=20 SECONDS, MEDIUM=40 SECONDS, LONG=60 SECONDS Percent-

age show the space taken by an individual vehicle out of the total width of road.







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