

Problem statement:

India ranks number 1 in the number of road accidents across 199 countries reported in the World Growth Statistics and accounts for almost 11% of the road related deaths in the world. As a new budding engineer how would you help improve road safety in India?

Abstract of Solution:

The number one reason for road accidents is over speeding. In 2018 overspeeding caused 66.5%(3,10,612) of road accidents. In 2019 this number went up to 71.1%(3,19,028)*. Needless to say overspeeding is causing copious amounts of damage and loss to people most of which can be easily avoided. A leading cause of over speeding is people's need to arrive at their destination faster but there is more than one way to reduce travel time.

I would recommend a two fold solution to this problem:

1. Streamlining traffic to reduce time spent and reduce the feeling of time being wasted during travel.
2. A wide spread education drive across multiple media platforms and in educational institutes.
3. Stricter enforcement of laws.

I would recommend streamlining traffic by creating a computer model to dynamically change times spent at traffic signals depending on traffic density to facilitate faster movement of traffic.

Create similar education drives as were done for we have previously done for smoking.

Laws can be more strictly enforced by many ways one such way is to let gps devices give a warning when they detect movement faster than the posted speed limit

* source: Ministry of Road Transport and Highways:Road accidents in India 2019(<https://morth.nic.in/road-accident-in-india>)