

SAFE U-TURN with DRUNK & DRIVE DETECTOR



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SURVEY:

By conducting the survey on our social innovation we found that nearly 58% members are facing this problem.

The questions asked are:

- Do you feel taking U-Turn on highways is really a dangers issue?
- Have you ever come up with seeing or met with this type of accidents?
- Do you think our idea is helpful?
- Can you put forth some drawbacks or ideas over this?





We have done the survey and found that more than 75% people are facing this problem.

The main problem observed is that during a U-turn there is a prone of accidents due to carelessness of drivers and also the traffic jam of the vehicles who are waiting for a u-turn.





PROBLEM DEFINITION

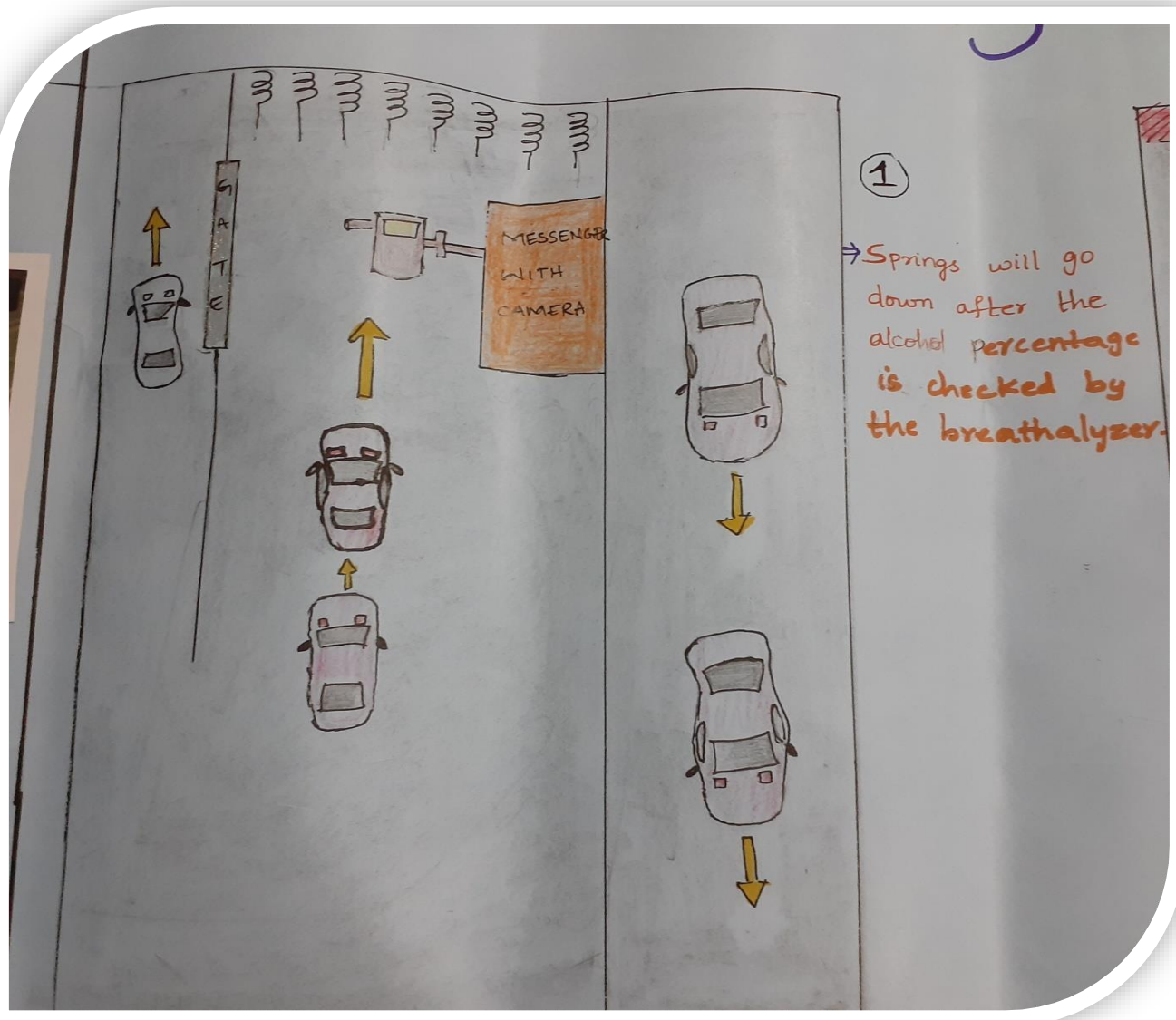
Now a days we see that many accidents are happening while taking a U-turn. Nearly, more than 75% of the accidents are happening every year due to this problem



Driving under the Influence (DUI) is the crime or offense of driving or operating a motor vehicle while impaired by alcohol or other drugs and those prescribed to a level that renders the driver incapable of operating a motor vehicle safely.

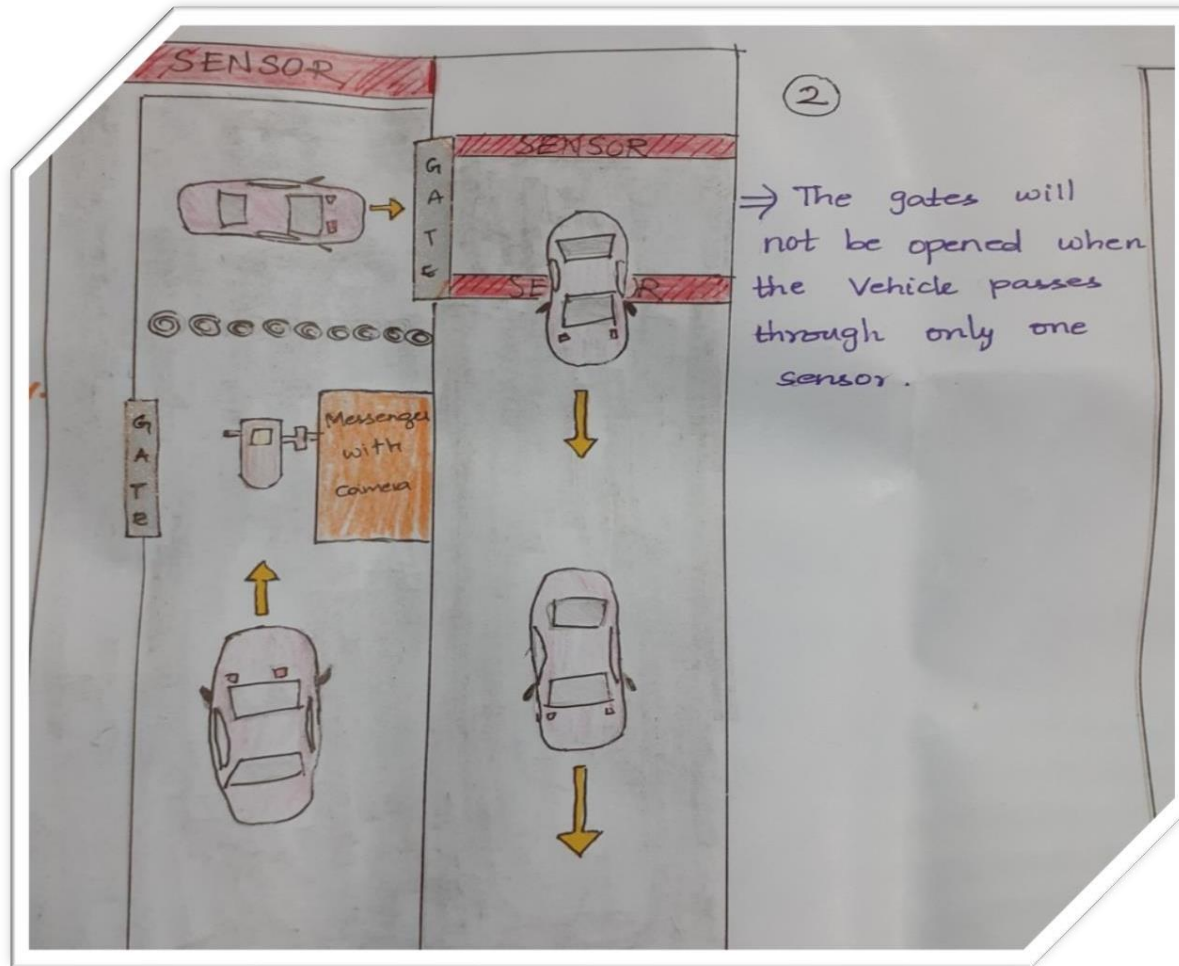


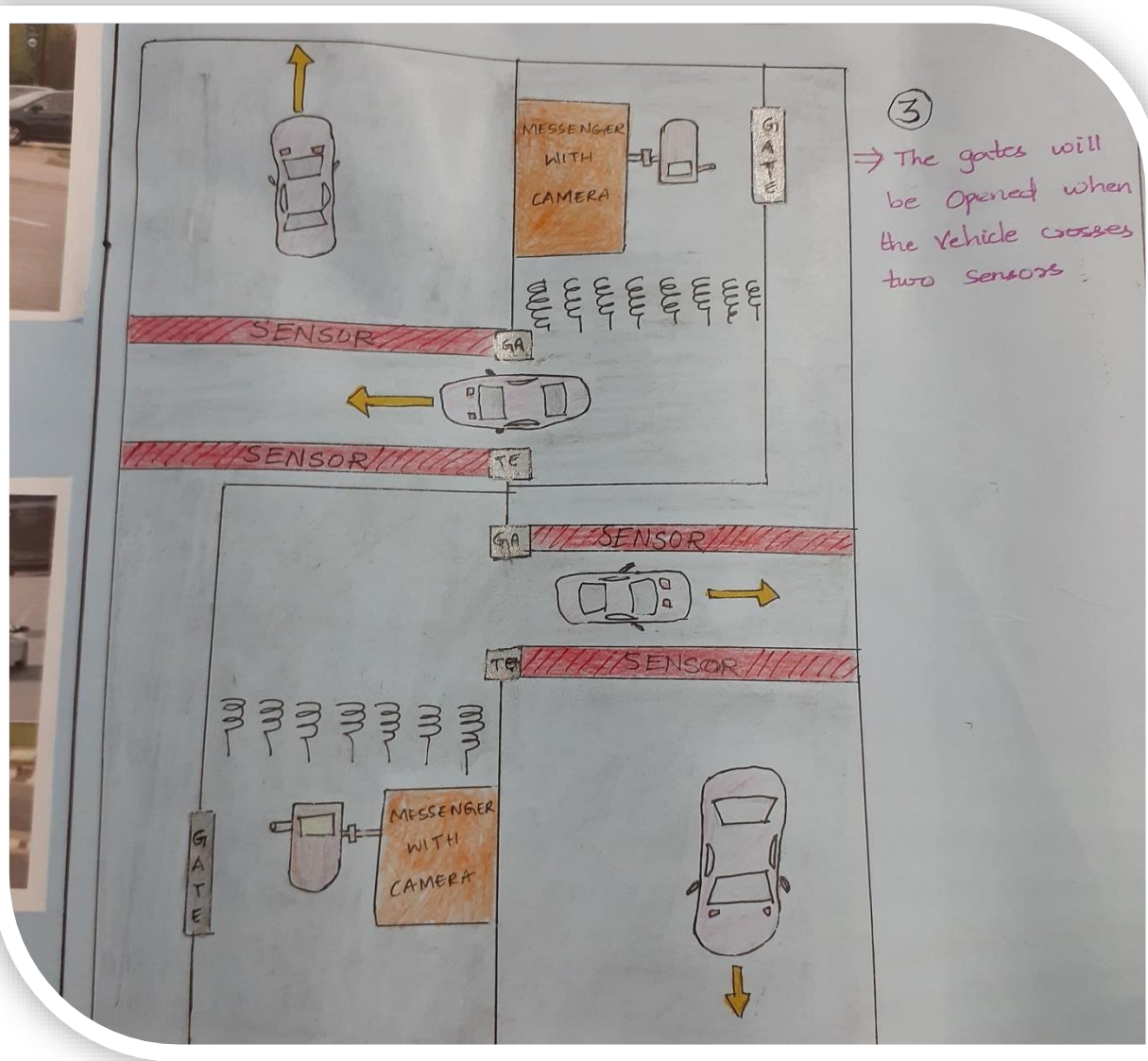
PROPOSED SOLUTION



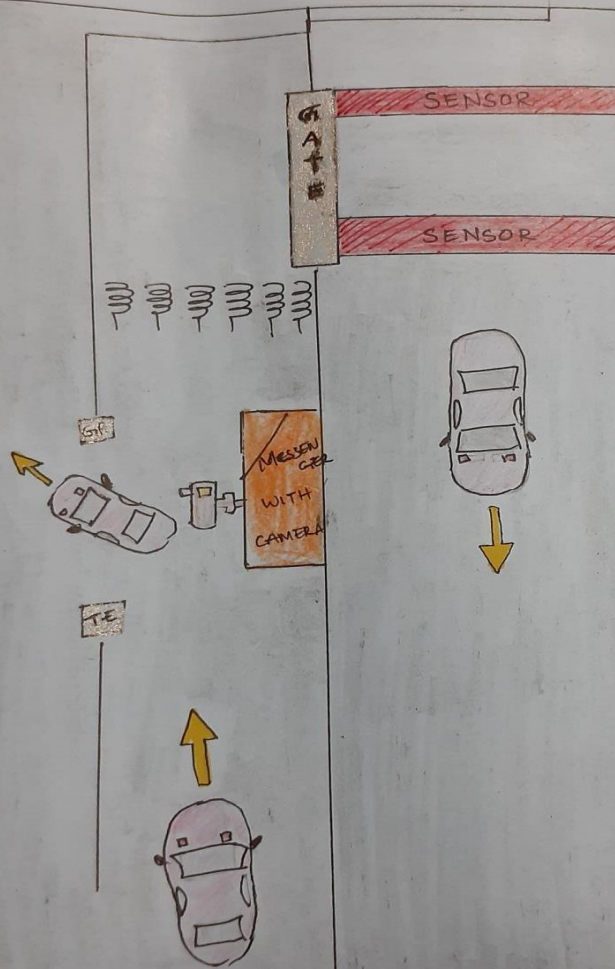
①

→ Springs will go down after the alcohol percentage is checked by the breathalyzer.



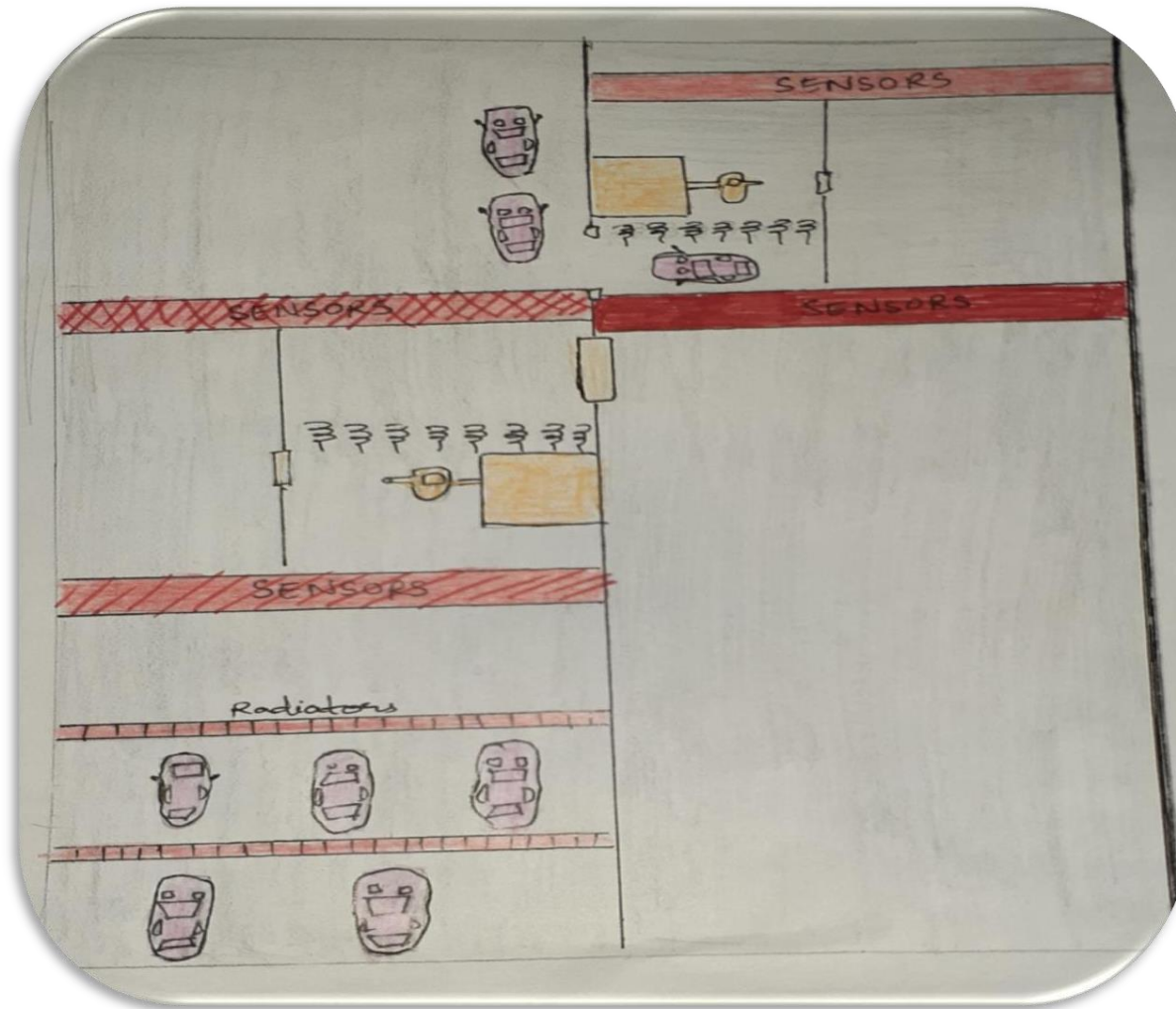


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⇒ If the percentage of alcohol is high, then the side gates will be opened. The camera in the messenger sends the vehicle number to near by police station



PROPOSED DESIGN/MODEL:

The process follows:

- *To take a U-Turn, we need to enter the separate lane on highway as indicated.*
- *To continue we need to pass the drunk and drive test.*
- *If the percentage of alcohol consumed is on limit the springs kept to block the escape goes down for further moving.*
- *So for taking a U-Turn we need to pass the gate which works on detection of traffic on other way using I.R sensors.*
- *For further moment of the vehicles on other side should pass the series of I.R sensors.*

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- *If in case the alcohol level is high then we proceed by pushing them to highway lane and inform to nearby police station through the messenger. And a camera is also attached to the messenger which sends the vehicle number to the police station.*
 - *Radiators are provided to slow down the vehicles on opposite side during heavy traffic.*



SOCIAL IMPACT



CONCLUSION

we can reduce From the survey report we conclude that more than 75% of people are suffering from this problem. By the implementation of the Safe U-turn and drunk and drive detector , the accidents and can detect the alcoholics. When we explained about our idea ,they felt that this would help to reduce the occurrence of number of accidents .

