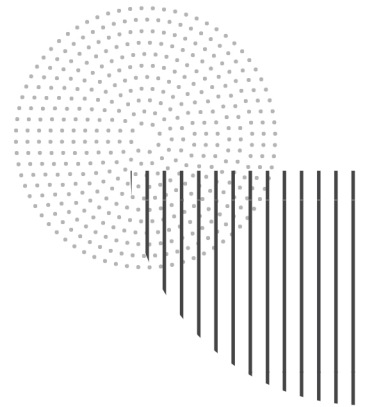


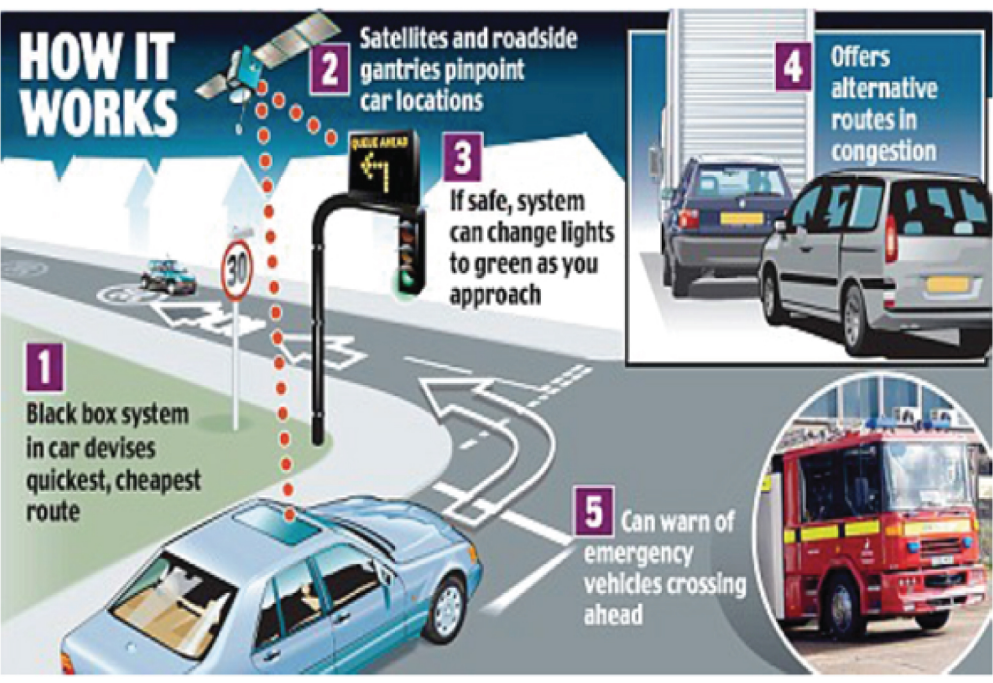
Under critical situations when vehicles face accidents, a lot of people lose their lives. Some of them could have been saved, but due to lack of information on the time and place of the accident, it might not have been possible. The main objective of this project is to provide an optimum solution to this drawback. Hazardous driving can be identified with an accelerometer. It can be utilized as an accident recorder of the developments concerning the vehicle, previously, during and after the accident. The information from the accelerometer, vibration sensor and GPS sensor, which is being put away in the cloud, can be utilized for insights and information investigation. With signals from an accelerometer, a serious mishap can be perceived. And so, when a vehicle meets with a mishap, the area in which the mishap occurred and the victim's contact number will be moved to a police control room or a salvage group, right away. The access to the severity of the accident and the accident location are via a Black Box app. After confirming the location, necessary action can be taken to rescue the accident victims

The BlackBox which has been developed is a step ahead of the existing Black Boxes. There are certain advantages in this BlackBox which will make the entire rescue system easier. Our BlackBox has made use of compact devices, which has resulted in a reduction in its size. The smaller size also makes it easier to be deployed in any vehicle. This BlackBox uses Wi-Fi internet connectivity instead of a GSM module which again speeds up the entire connectivity process. The data is constantly being stored on the cloud database, and is live updated to the BlackBox App from the Database. The entire process is very quick due to the usage of advanced cloud. The app is user friendly, and can be used by any person who has a smartphone. The complete set up and accuracy of our BlackBox makes it more reliable for the users, than the existing Black Boxes and other accident rescue methodologies..



# 12 PROJECT

## CAR BLACK BOX SYSTEM FOR ACCIDENT TRACKING



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