Problem statement.

Any fleet-based company that has problems with delivery, services and transportation should consider a vehicle tracking system. [**Vehicle tracking systems**](https://www.fleetsmart.co.uk/) are devices fitted into vehicles that allow real time information to be sent back to a central server. They have many beneficial uses.

[**Fleet tracking systems**](https://www.fleetsmart.co.uk/) can be essential for a vehicle’s security. Security agencies recommend that a vehicle should have four layers of protection. A tracking system counts as one of these layers. If a vehicle is stolen, the police can easily locate it using GPS. Some van tracking devices can even function as alarms.

The number of vehicles are drastically increasing, and security flaws is becoming a major issue. The global issue related to a constantly increasing crime rate needs to be urgently addressed by both developed and developing countries. In 2018, private car theft rate for Kenya was 0.9 cases per 100,000 population (1370 cases). Though Kenya private car theft rate fluctuated substantially in recent years, it tended to decrease through 2004 - 2018 period ending at 0.9 cases per 100,000 population in 2018 (Kenya Private car theft rate, 2003-2020 - knoema.com, 2021). The figure doesn’t account for unreported stolen vehicles – many owners don’t report stolen cars as they don’t believe they’ll get them back. If not recovered

soon, stolen vehicles are generally sold, revamped or even burned if the resale price is

considered to be too low. Once a vehicle is stolen, it becomes hard to locate it and track it, which considerably decreases the chances of recovering it. Hence, there is need for fleet-based companies, individuals and companies to use a tracking system to track and trace their cars in case of theft or monitor misuse by employees. In this work, I propose the design and implementation of a car tracking anti-theft system that will protect and secure vehicles.

Modern days, the safety of private and public vehicles is a major concern. To ensure safety while

travelling, GPS tracking system is installed in vehicle.

References.

Knoema. 2021. *Kenya Private car theft rate, 2003-2020 - knoema.com*. [online] Available at: <https://knoema.com/atlas/Kenya/Private-car-theft-rate> [Accessed 16 May 2021].