

TRAFFIC MONITORING SYSTEM FOR THE CITY SUBURBAN IN AFRICA



A high level of security is able to fully provide a traffic monitoring system. And not the last role in it is played by vehicle identification in all its parameters (number plate, make, type, model, and color).

The system provides control of all transport flow in the suburban part of the city, especially suspicious vehicles. This traffic system helps to prevent criminal violations and increase the safety of residents.

Unique traffic monitoring project was successfully implemented in one of the cities in Africa with support of our partners (integrators and camera vendor) with the use of a police database system.

Who is the customer:

- > Municipal Authority
- > Road police

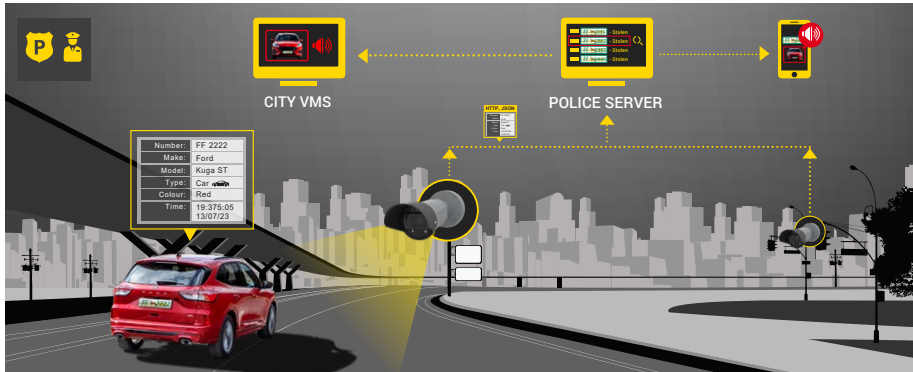
CUSTOMER DEMANDS:

The municipality needs to receive data on all vehicles and their amount to ensure safety in the suburbs. If an intruder or a suspicious vehicle is identified, the data is immediately sent to the police.

Solution architecture:

- > CAMMRA recognize vehicle license plates, make, type, date, time and the registration country onboard the Axis camera.
- > Recognized vehicle data are sent to the central Police database for reconciliation with the state automobile database.
- > Information about the intruders or suspicious vehicles is automatically sent to the police server for subsequent action (fine or arrest).

Solution architecture:



1 Each smart camera with CAMMRA captures the vehicle license plates, make, type, color.

2 Traffic data in JSON format are sent via HTTP protocol to the separate off-site Police central server for vehicle verification with the local police car database. The off-site Police service checks for consistency of data received from CAMMRA with state number databases. If there is a suspicion that the car has been stolen, then the Central system sends a notification on the mobile phone and to the police VMS (vehicle screenshot and message about suspicion).



3 Recognized data from CAMMRA is also sent to municipal VMS, which controls the entire urban video surveillance system. The data received from CAMMRA via TCP protocol are sent to the VMS event engine, where notification messages are generated and the video is searched by vehicle number, color, make and model.

BENEFITS:



License plate recognition

Accuracy: above

>95%



Recognition of 6 vehicles types



Recognition of 74 vehicle makes



Max. vehicle speed: up to 160 km/h



Whitelist check



Traffic statistics collection and analysis



Reports are available 'per period'

We help cities, transportation companies, and system integrators make data-driven, cost and time-effective informed decisions



Get project consultation