AI-VIOLATION

Traffic red light violation detection

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AI-VIOLATION is a video analytics app making it possible to **detect traffic red light violations**, i.e. vehicles that cross the stop line when the traffic light is red.

The application also allows the identification of the vehicle that has committed this infraction, its vehicle type among the **categories of car**, motor vehicle and motorbike as well as **average speed** and the **time elapsed** since the red was turned on.

The detection and tracking of vehicles are based on the use of deep neural networks, as well as the analysis of the traffic light status. In fact, the application is able to determine the status of the traffic light (red, yellow, green) automatically, with only artificial intelligence applied to the processing of the video acquired by the camera, **without the need for any physical connection with the traffic light**
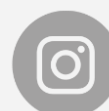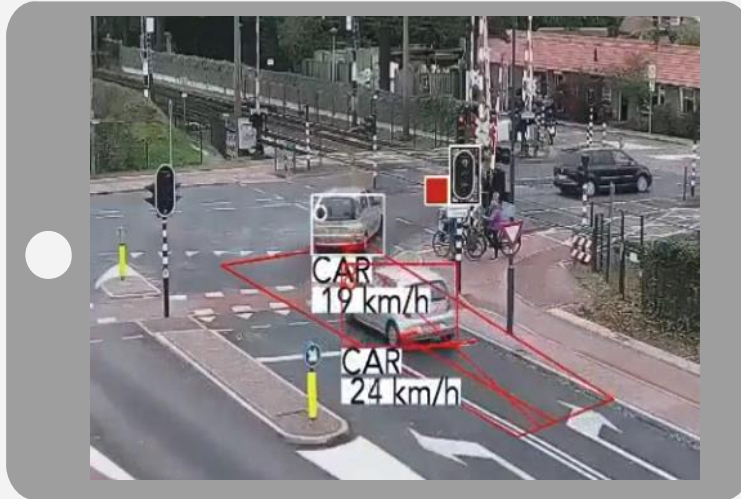
USE CASE
Where can we use AI-VIOLATION?

AI-VIOLATION is the **key tool for public administration**, since it allows them to identify irregularities related to vehicles passing red lights. Understanding the areas where these violations occur can be a useful indication for the public administration, in order to decide the most suitable position where installing the device that will be used for **sanctioning purposes**.

Also, AI-VIOLATION can also be considered the ideal solution to be integrated into whole systems approved for fining purposes.
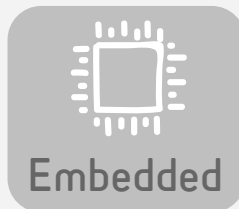
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ARCHITECTURE
Where can we install the app?

Edge	Embedded	Server

The detailed list of specific compatible platforms can be reached via the link on the right.

INTEGRATION
Where can we notify the events generated by the app?

Events can be sent to external servers using over 20 different mechanisms, which include third-party VMSs, standard protocols (such as HTTP, FTP, MODBUS and MQTT) and also A.I. Tech proprietary protocols, which allow the notification of events to the dashboards of A.I. Tech. More information via the link on the right.