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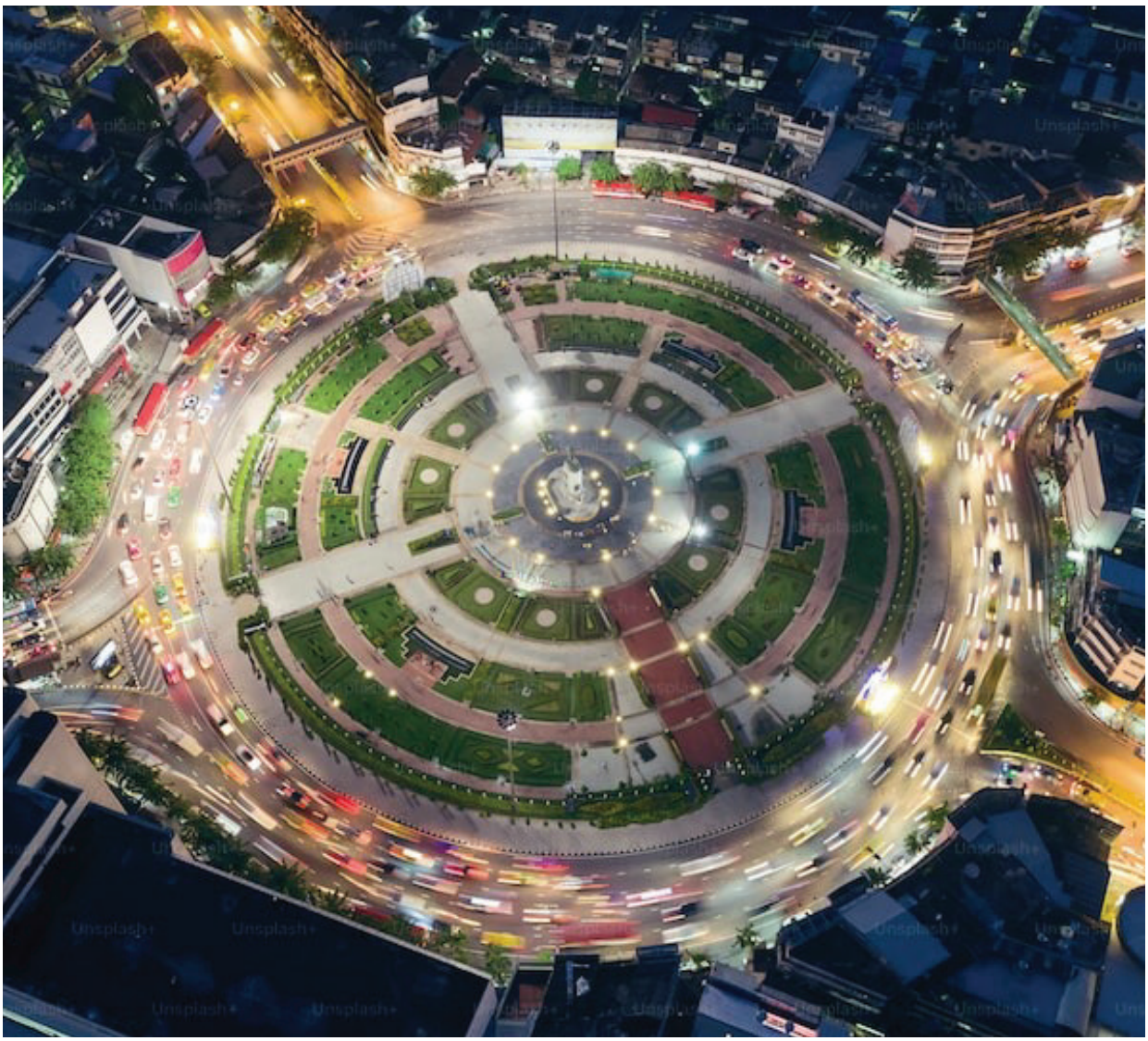

AI-SMART CITY

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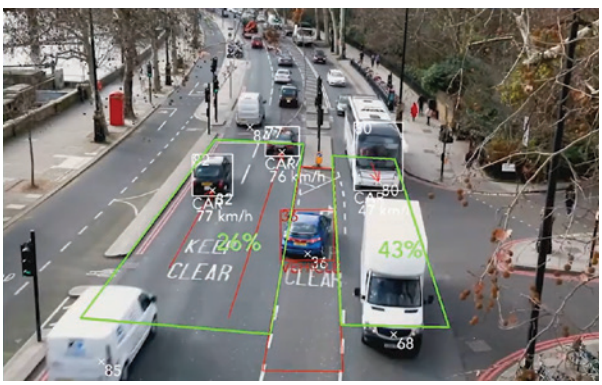
AI-SMART-CITY

AI-SMART CITY provides the functionalities to manage a modern city, through the analysis of vehicles and people with advanced deep learning algorithms. AI-SMART CITY includes the features found in AI-TRAFFIC-DEEP and AI-CROWD-DEEP to provide a complete and configurable solution.

As for the vehicle, the solution allows you to count and classify vehicles that pass through a virtual sensor in a given direction. There are three classes of vehicles detected: motorcycles, cars and trucks. In addition, AI-SMART-CITY estimates the color and average speed of vehicles, generating an alarm where this speed is higher than a configurable threshold, determining traffic density in real time and monitoring vehicle flows via the origin-destination matrix .

AI-SMART-CITY can also be used to detect dangerous behavior or anomalous situations on the road in real time, such as wrong-way vehicles, stationary vehicles, U-turns, pedestrians staying in prohibited areas, or queuing.



AI-SMART-CITY provides also advanced people analysis features in both indoor and outdoor environments. The solution allows you to estimate the number of people present within one or more areas of interest and counts the people crossing a virtual line. Furthermore, it is possible to generate an alarm in case of overcrowding situations, gatherings of people, loitering or excessive permanence of people in an area.

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AI-SMART-CITY USE CASE

AI-SMART-CITY is the solution for public administrations that decide to exploit artificial intelligence for people analysis and enhance the functionalities of their systems, also existing video surveillance systems. In fact, the solution provides the detection of anomalous behavior, such as people who remain in an area for too long (loitering), or people who are still (for example for the detection of acts of vandalism, such as graffiti). It can also be also used to identify potentially dangerous solutions such as gatherings or overcrowd.

AI-SMART-CITY finally allows us to respond to green energy needs, thanks to the possibility of automatically personalizing and regulating the light intensity of the streetlamps placed on the streets. For example, at night we can impose a low brightness where there are no people and a maximum intensity where there are people passing by. A similar application can also be adopted within public offices, in order to provide for the switching on and off of lighting or ventilation systems.

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AI-SMART-CITY USE CASE

AI-SMART-CITY includes the functionality of different applications designed to meet the needs of cities in monitoring and managing vehicles. The solution provide functionalities to analyze vehicular flows, through vehicle counting and the use of origin-destination matrices, as well as estimating the average speed of vehicles, allowing you to identify the routes in which the average speed is higher. The solution also allows you to detect potentially dangerous situations on the road, such as traffic jams, a vehicle going the wrong way or making a U-turn or even the presence of a pedestrian on the road in prohibited areas, such as emergency lanes.

AI-SMART-CITY can also be used for monitoring tunnels or in motorway environments. Ultimately, the solution allows you to collect the data necessary to make informed decisions both to improve road safety and the livability of cities, and also allows you to optimize vehicular flows.

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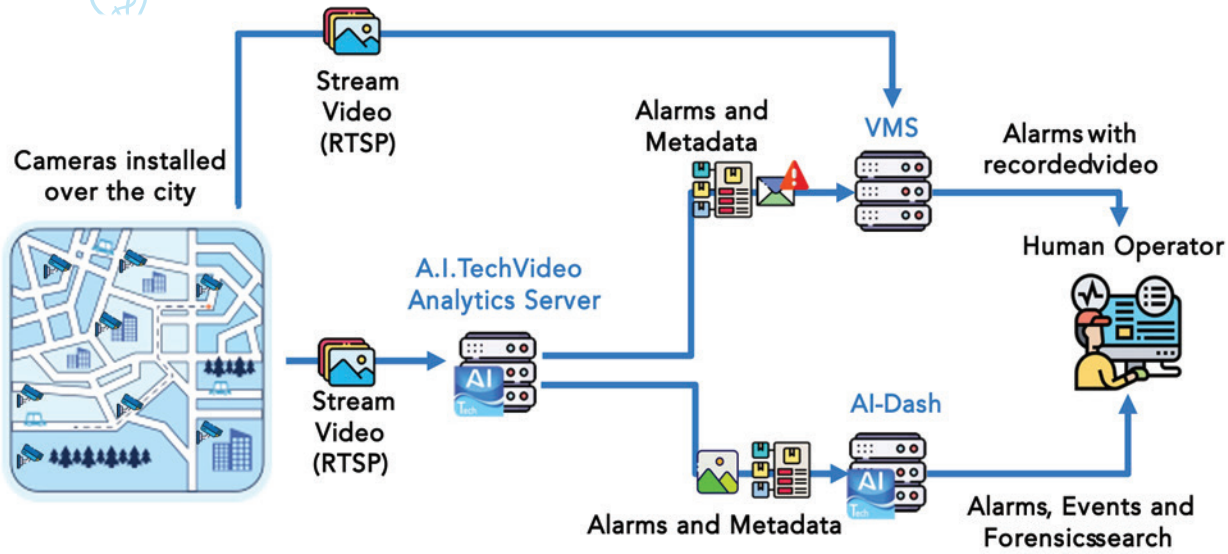
WHERE TO INSTALL

Where can I install the application?



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

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.

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AI-SMART-CITY: AWARDS

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