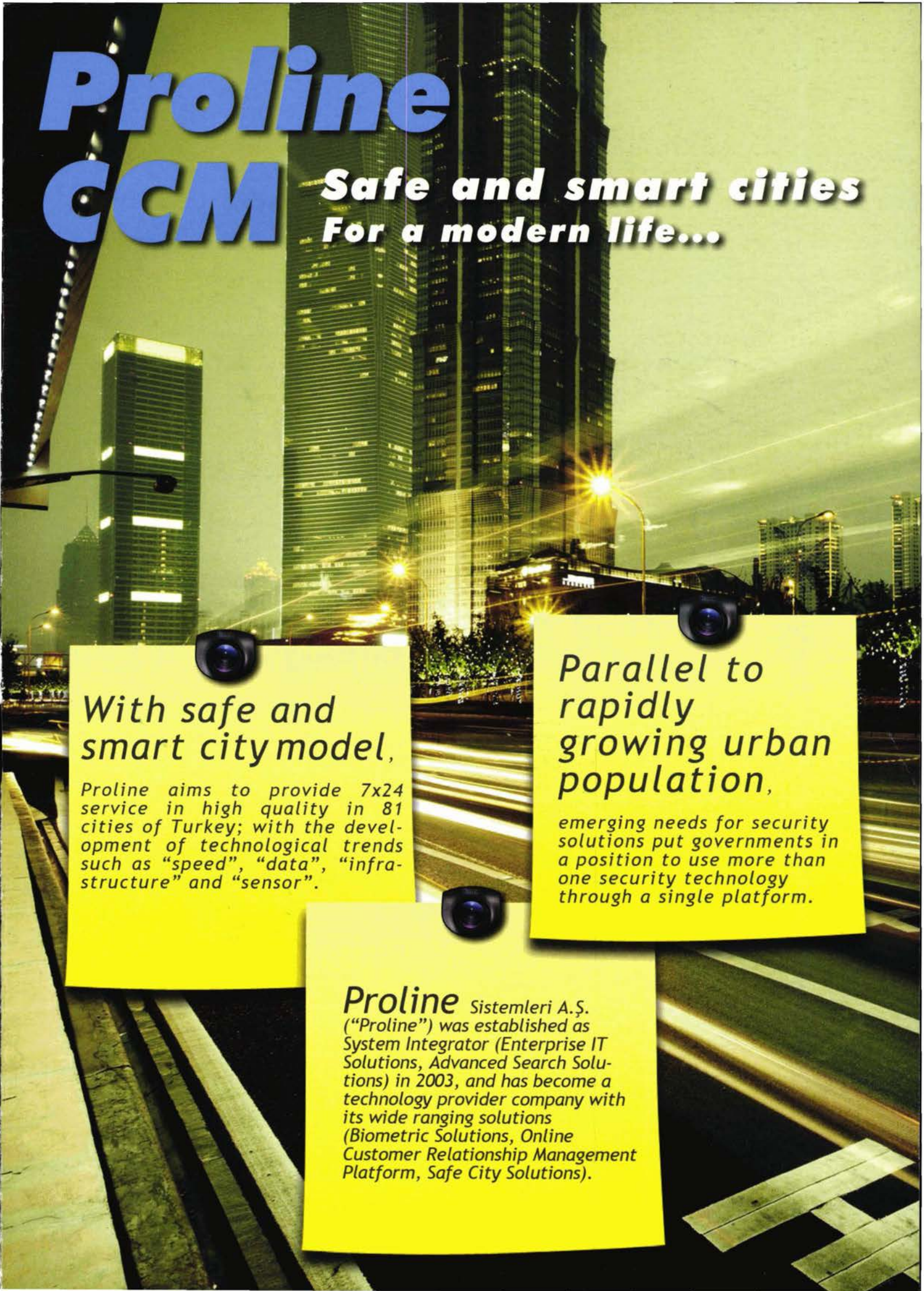
Proline
ÇCM
Safe and smart cities
For a modern life...
With safe and smart city model,
Proline aims to provide 7x24 service in high quality in 81 cities of Turkey; with the development of technological trends such as "speed", "data", "infrastructure" and "sensor".
Parallel to rapidly growing urban population,
emerging needs for security solutions put governments in a position to use more than one security technology through a single platform.
Proline Sistemleri A.Ş. ("Proline") was established as System Integrator (Enterprise IT Solutions, Advanced Search Solutions) in 2003, and has become a technology provider company with its wide ranging solutions (Biometric Solutions, Online Customer Relationship Management Platform, Safe City Solutions).

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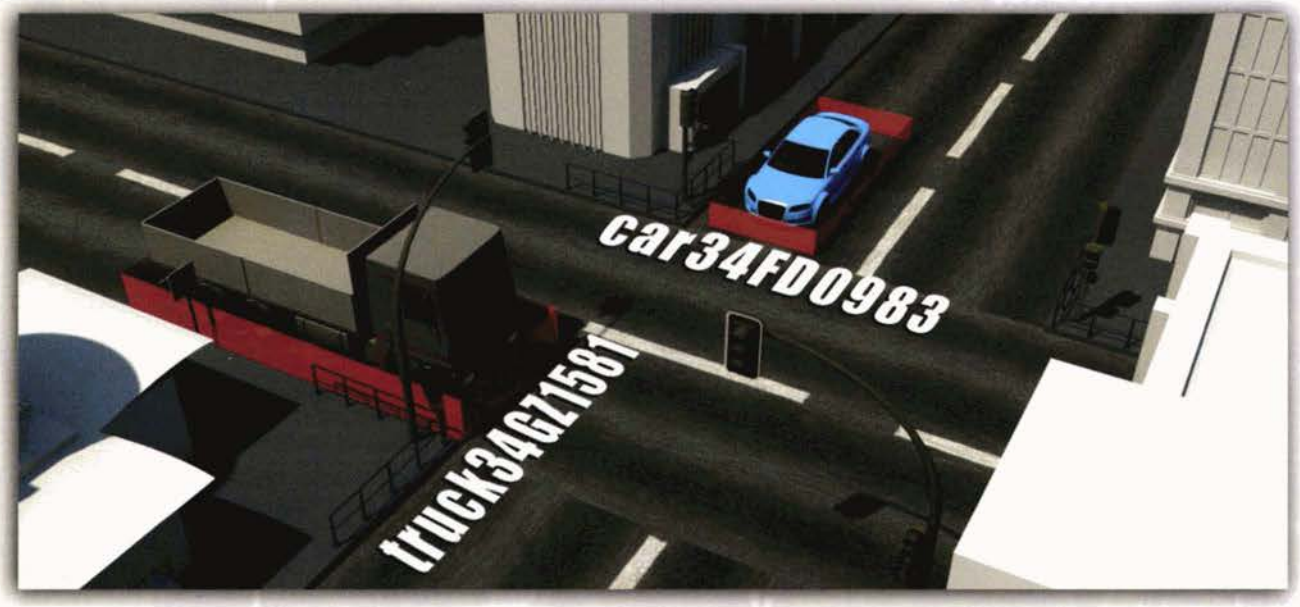
LICENCE PLATE IDENTIFICATION

PROLINE CCM is an automated vehicle identification system which has been specifically developed to identify license plates based on image processing of vehicle images retrieved from video cameras. The system transfers images to main server from onsite monitoring components with 99% success and can detect vehicles with a speed value up to 180km/h.



During vehicle plate detection process, following parameters can be determined for each vehicle:

- Content of license plate and country origin
- Classification of the identified vehicle (car, van, truck, bus)
- Brand, type and color of the vehicle

Additionally, to the certain part of images retrieved several information such as license plate, time stamp, name of vehicle plate capturing point, number of the correct readings till the disappearance of the car from the vehicle plate capturing point OCR scores may be written, if needed.

RED LIGHT and SPEED VIOLATION

PROLINE CCM consists of one or more cameras with a proper resolution, hardware and software components for data processing speed measurement device, alarm detection and warning devices as well as data communication device in a special housing to protect from harsh environment such as water and shock which shall be located close to traffic lights and assisted with flash/infrared lamps for night view. Furthermore, based on already specified hardware and software components enabling remote management, Proline CCM may issue civil penalty notifications to the drivers who caused speed or red light violation. Proline CCM is also able to create statistical reports.

BASED ON data retrieved from inductive sensors embedded to asphalt, Proline CCM may observe traffic flow and traffic lights. Inductive sensors are positioned just before the pedestrian crossings. Should the traffic light become red, the system will be activated. Once it is activated, vehicles passing through inductive sensors with a speed higher than permitted speed limit triggers the cameras so that it can be easily detected.

ONCE PROLINE CCM is activated at least two images are taken. The first image indicates the vehicle just before the stop line where pedestrian cross line, if available, corresponding vehicle and red light are also covered. The second image indicates vehicle passing through the cross road. In addition to already retrieved images, the image of violating vehicle is also stored.

ADDITIONAL INFORMATION such as date, time, place, time after activation of red light, speed of vehicle and speed limit etc are also inserted to the already taken image. Retrieved images and videos are forwarded Red Light and Speed Violation Management Center. System automatically forwards images related to violations to the management center. Having confirmed these violation cases by an operator, penalty notifications are created automatically including images and further details of violation.

EMERGENGY LANE VIOLATION SYSTEM

Emergency Lane Violation Management System is working with fixed full HD cameras, radar infrared sensor, video analytic server and related licenses.

Proline CCM detects the vehicle entering to the emergency lane automatically. Accordingly it is sending the vehicle image and captures video stream length of 5 seconds with identified plate number to the main control server automatically. Vehicle speed is detecting by a Speed Radar system that accuracy is reliable..

Storage unit in the field can store HD video records of one week time length and plate information of violated vehicle for one year. In case of any connectivity problem, it is transferring already stored data to main server automatically.

- With sophisticated reporting filters such as time, speed, several vehicle specific parameters, the user is able to execute searches accordingly.
- The system can be serve more than one control centre if required.

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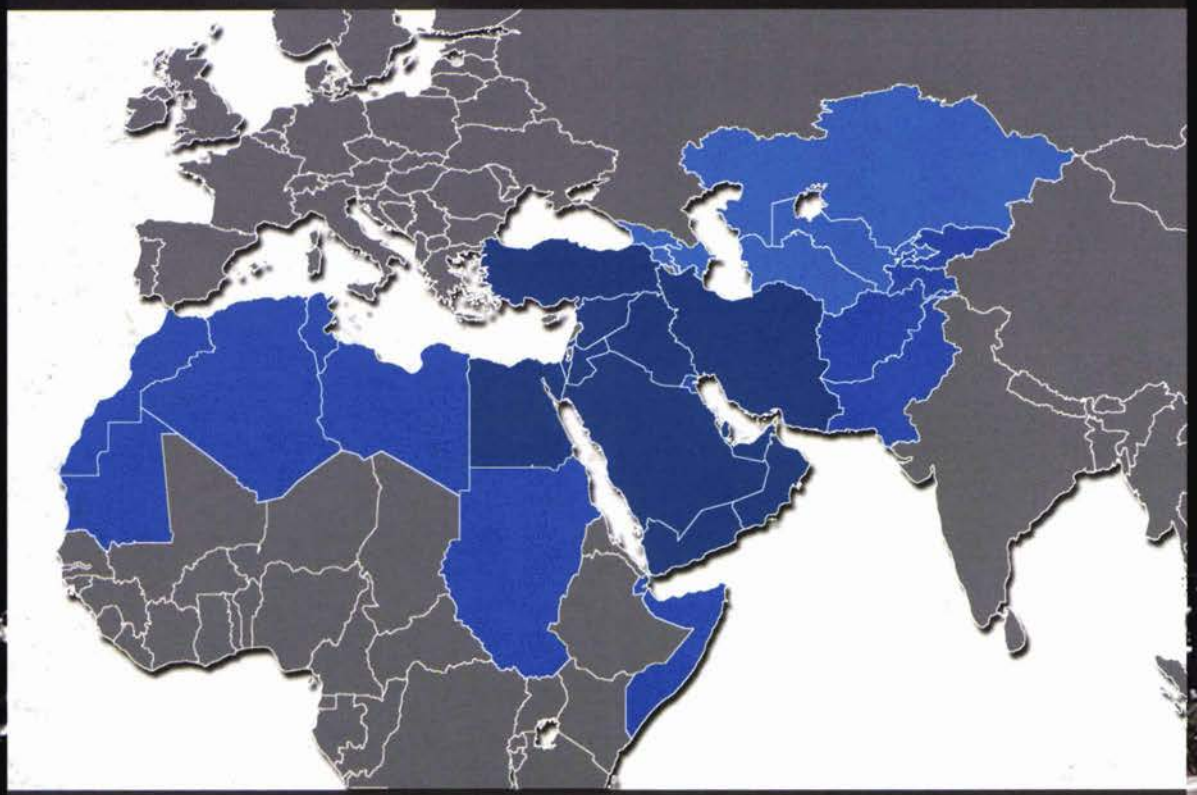
BUSINESS AREA



TECHNICAL SUPPORT

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