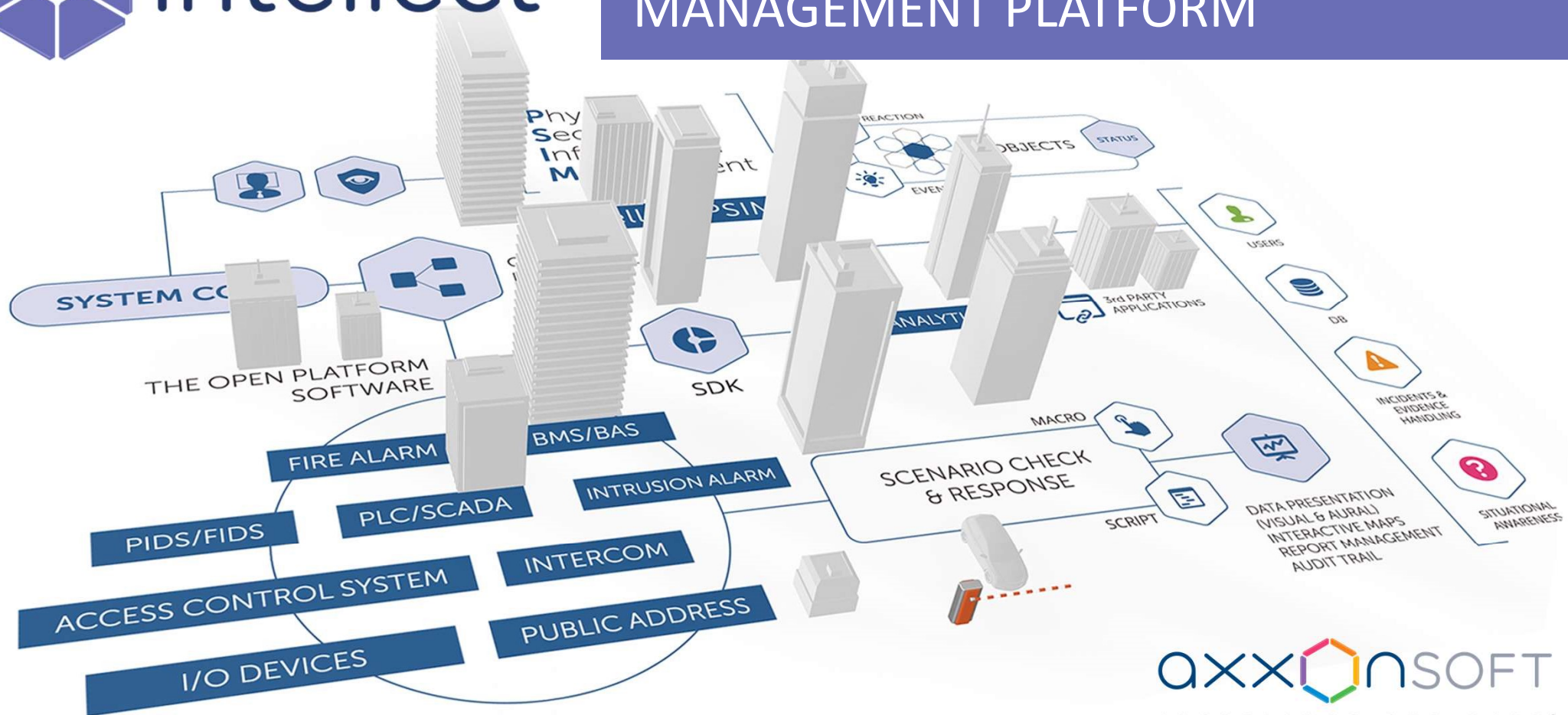




PHYSICAL SECURITY INFORMATION MANAGEMENT PLATFORM



AxxonSoft

A world's leading developer of intelligent video management and physical security information management software (VMS and PSIM). Since 2003, the company has been creating disruptive technologies that push the Safety & Security industry forward.



E X P E R I E N C E T H E N E X T [®]

1996



First
video analytics
product

1998



Motion Wavelet
codec

2003



Intellect PSIM
First Safe City
project

2008



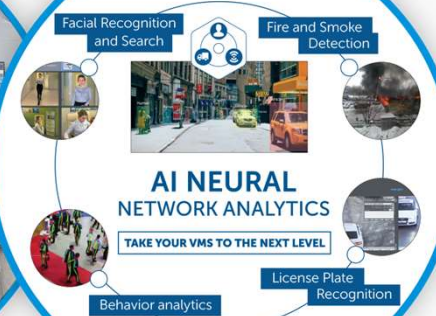
Starting
Axxon Next VMS
development

2011



Forensic Search
technologies

2019

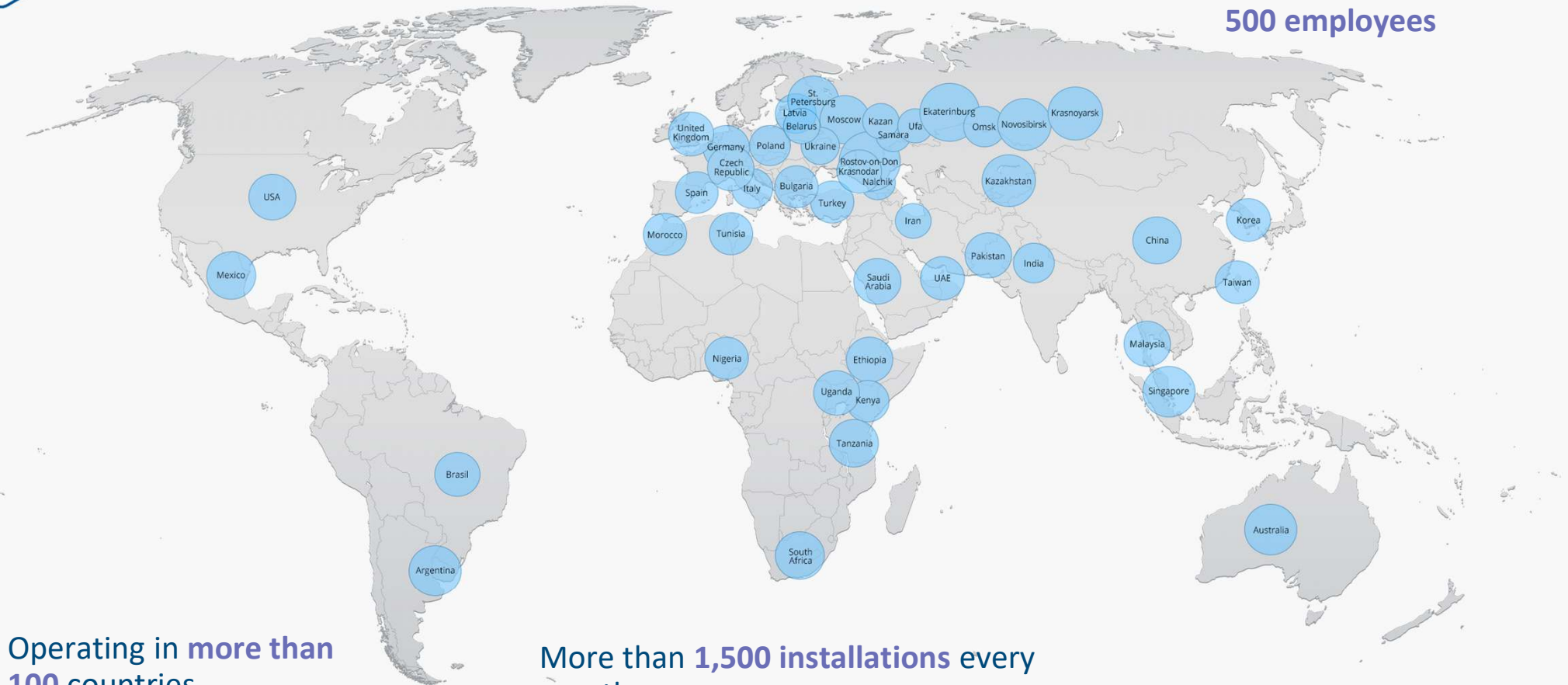


AI Analytics
Cloud



AxxonSoft today

50 offices around the world
500 employees



Operating in **more than 100** countries
Over **6,000** certified partners

More than **1,500** installations every month
More than **2,500,000** video channels activated

axxonsoft
EXPERIENCE THE NEXT®



Our clients

e·plus⁺

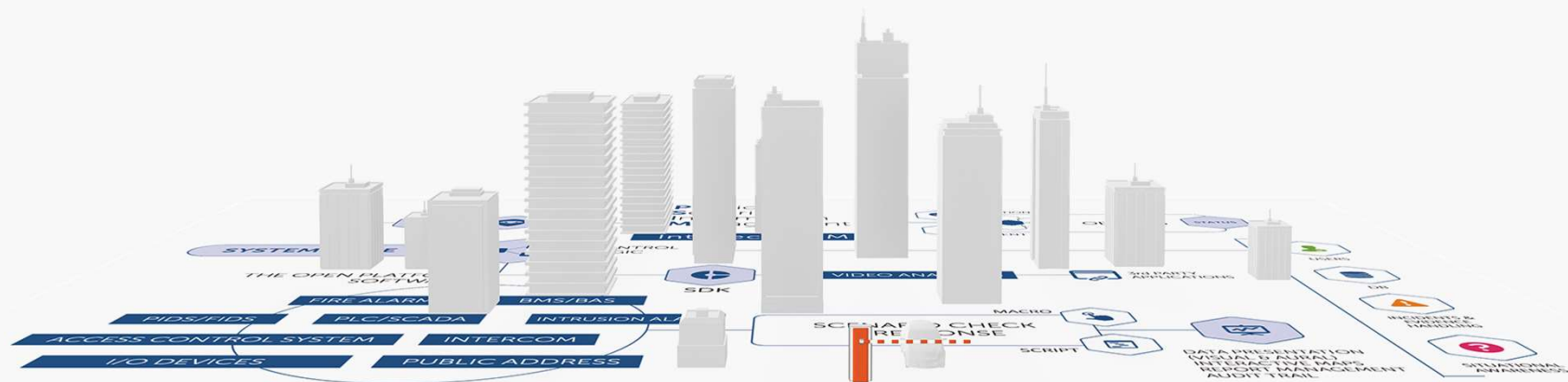


MARKS &
SPENCER



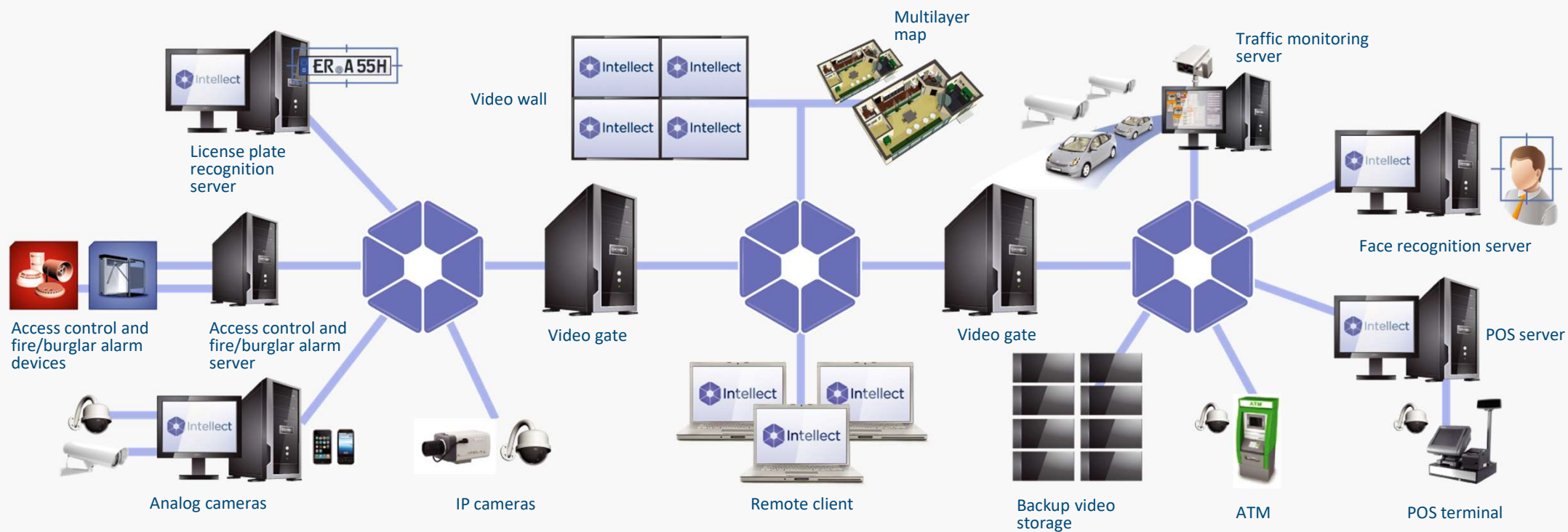
Intellect PSIM

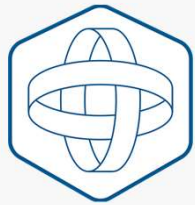
Intellect is an open platform for physical security information management that can support integrated security systems of any complexity and size. Intellect-powered systems can centralize security tasks in a single interface: video surveillance, fire and security alarm systems, perimeter security, access control, audio monitoring, and industry-specific vertical solutions. Its open architecture allows other systems to be integrated.





Integration, Distributed Architecture





Benefit from the Open Platform and Integrations

- Combine equipment from different manufacturers and manage it from a single control center.
- Minimize the financial costs of equipping the facility by reducing the hardware and software needed and connecting existing equipment to the system.
- Implement new features that aren't available with self-contained systems.
- Reduce the amount of information that the operator has to process, with a more intuitive interface.
- Get improved situational analysis based on information from different sources.
- Automate decision making for standard situations.
- Significantly reduce the likelihood of operator mistakes.
- Better protect the system from external interference.

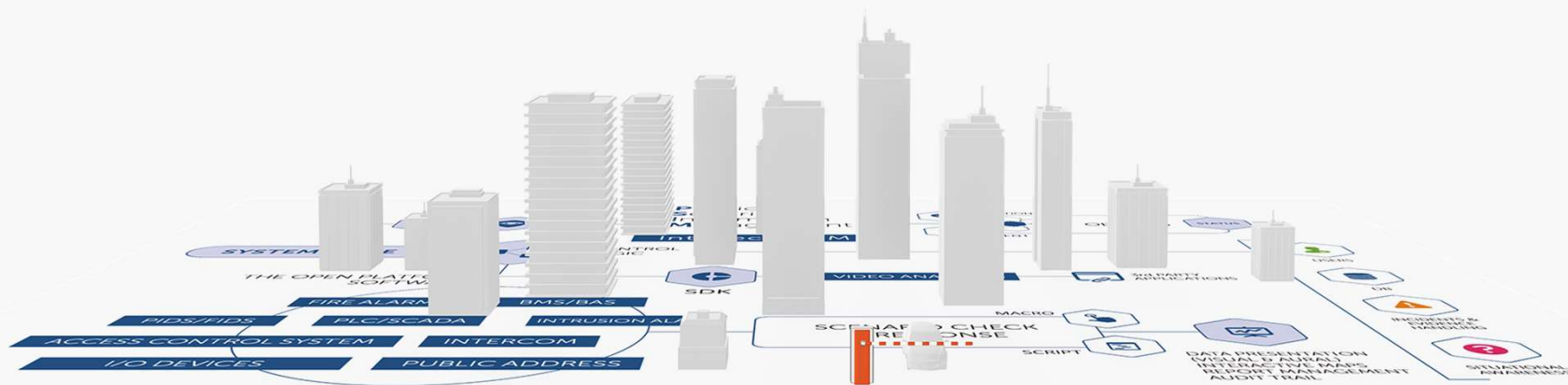


axxonSOFT
EXPERIENCE THE NEXT®



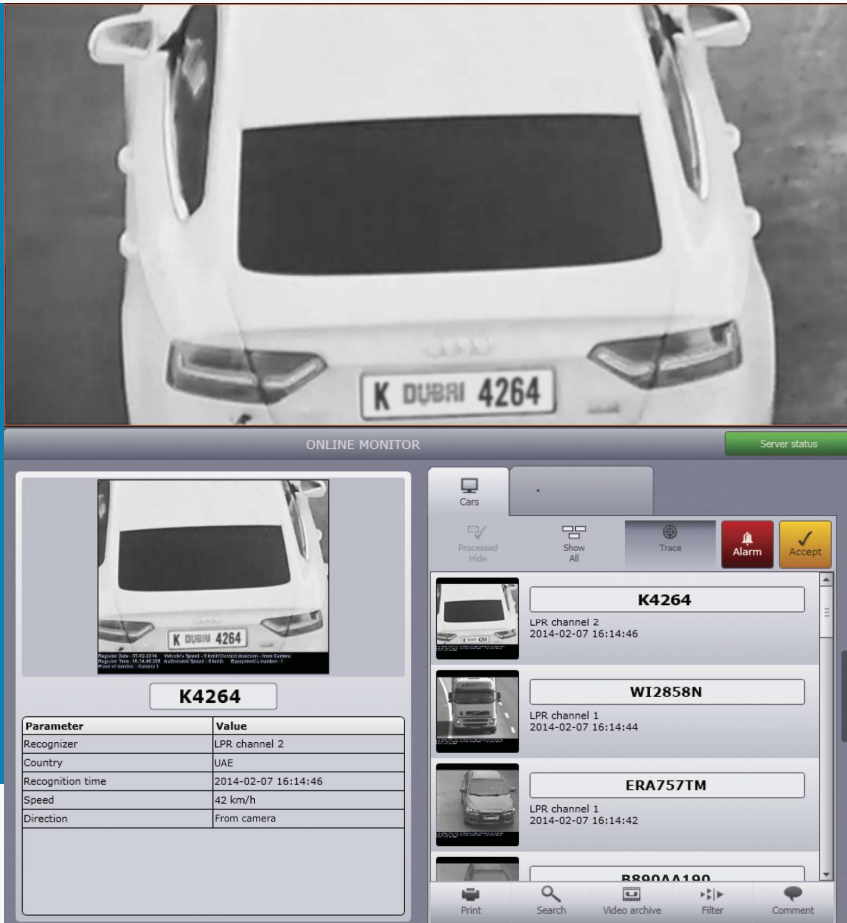
Auto Intellect

ANPR, Rail Car and Freight Container Number Recognition,
Traffic Violations Detection, Traffic Statistics Collection





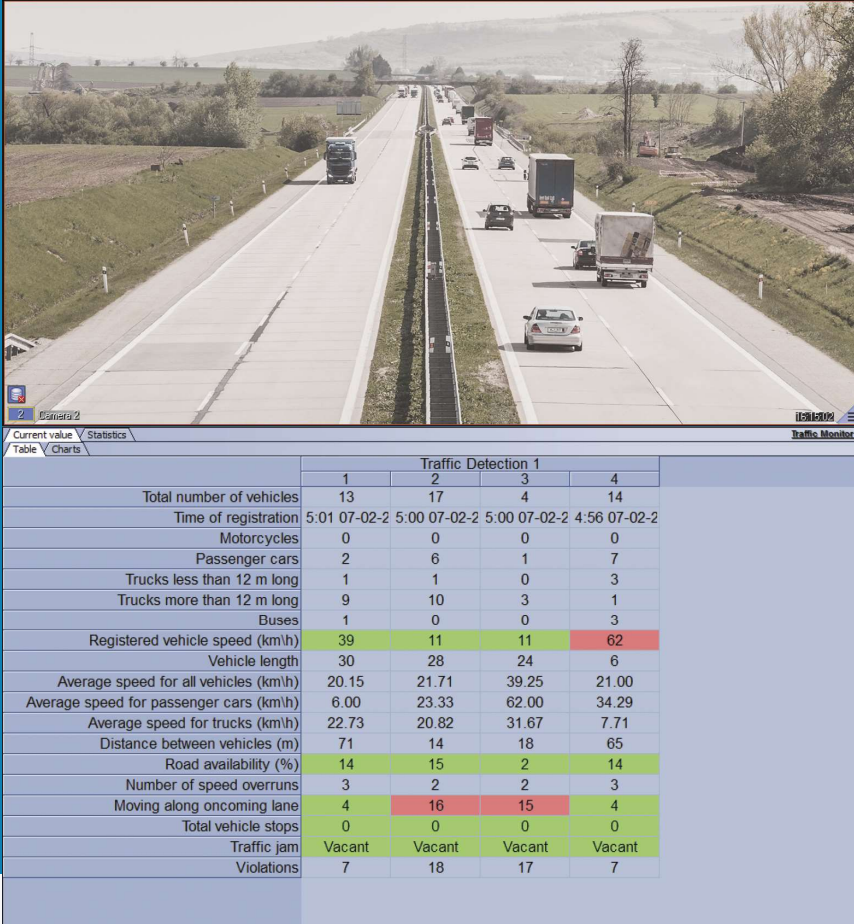
Automatic Number-Plate Recognition (ANPR)



- Recognizes number plates and saves vehicle registration numbers, video and still images, date/time, registration addresses, and other data.
- Triggered by any system event.
- Supports camera-side ANPR.
- Checks recognized numbers against internal and external databases.
- Performs internal database checks to retrieve number-specific information.
- Controls vehicle access by number, or access card + number combination (using Virtual Access Server).



Traffic Statistics Collection



The module calculates the following macro-parameters for each traffic lane:

- Total number of vehicles
- Number of vehicles by type
- Average traffic speed
- Average vehicle speed by type
- Distance between vehicles
- Traffic density per lane
- Congestion conditions

It also registers the following violations:

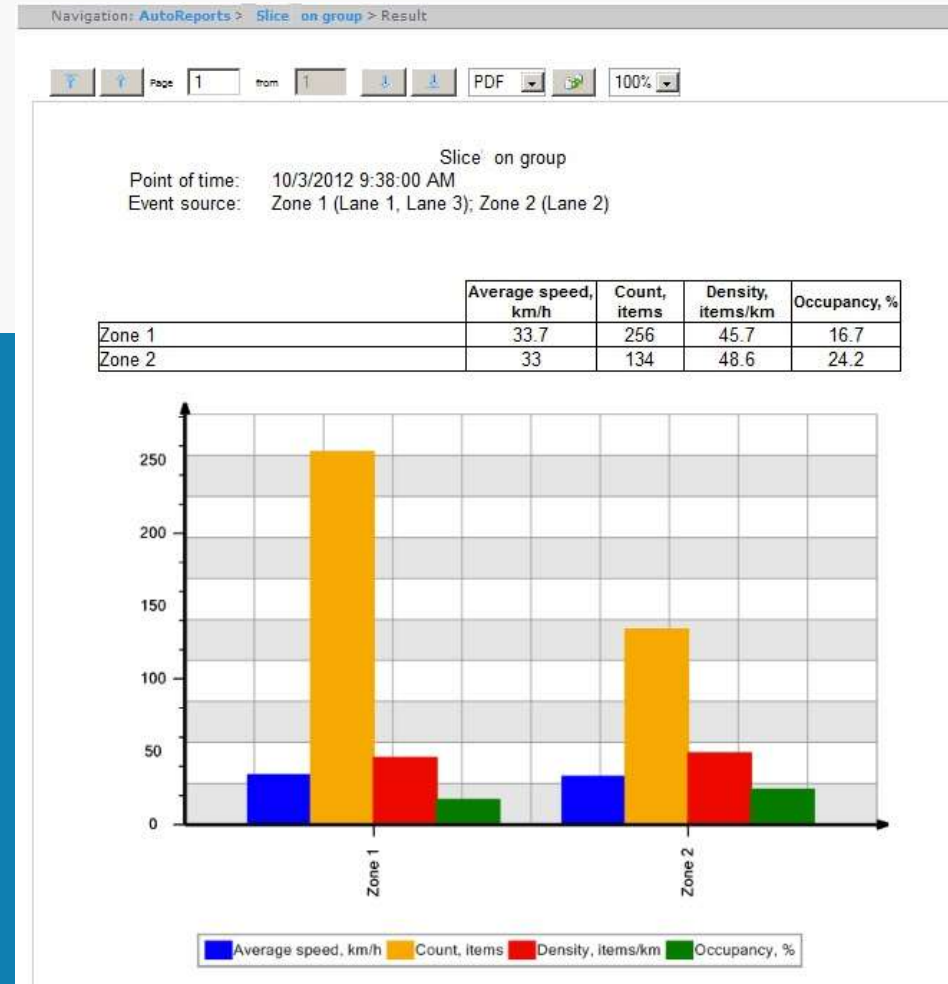
- Speeding
- Wrong-way driving
- Improper stopping/parking
- Reversing
- Failing to comply with traffic ban for lorries/trucks/bikes etc.



Web Reports

Centralized report retrieval via the web interface. Reports can be printed and/or exported as PDF, RTF, HTML, Excel, CSV, or TXT files.

- **Report by Lane/Time:** average speed, traffic volume, and density for a specified lane within a specified timeframe.
- **Report by Group:** average speed, traffic volume, and density for a specified group of lanes at a specified time.
- **Report by Vehicle Type:** statistics by specified types of vehicles.
- **Report by Vehicle Type Group:** statistics by specified group of vehicle types.
- **Report by Recognized Numbers:** a list of vehicle numbers recognized within a specified timeframe.



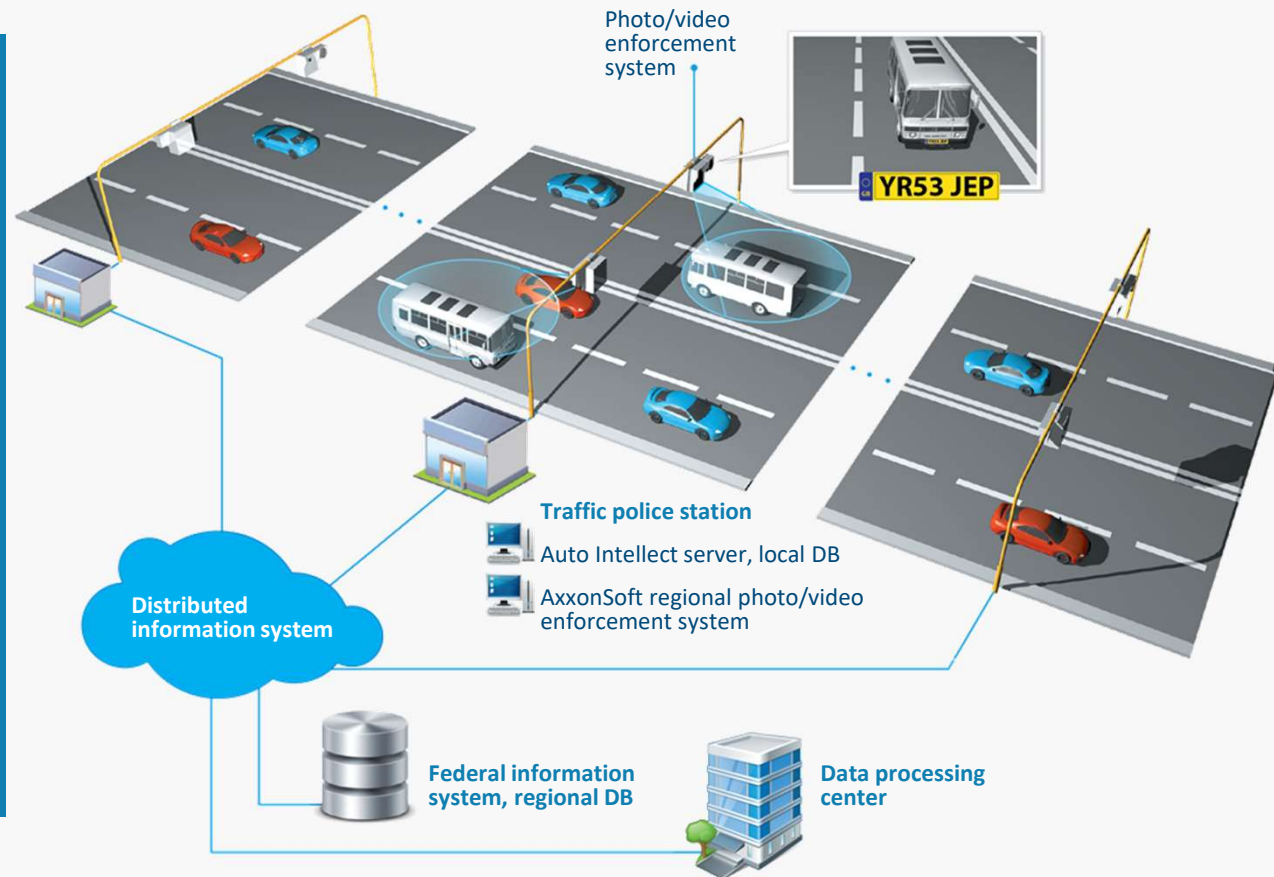


Traffic Violations Detection

Automatic video recording of traffic violations to provide evidence for further action.

Violation types:

- Speeding
- Running a red light
- Crossing stop line
- Stop on a crosswalk
- Illegal parking
- Wrong-way driving





Stopped Vehicle Detection Tool



- Detects congestion and idle/stalled vehicles in specified areas.
- Detects dissolved congestion and idle/stalled vehicle movement.
- Records events to the database.



Auto Intellect Video Demo

AUTOMATIC NUMBER-PLATE RECOGNITION

**ANPR CHANNEL AND
RECOGNIZED NUMBER**

Source	Event	Region	Add info
LPR channel 1	LP recognized		G59494
LPR channel 1	LP recognized		G5494
LPR channel 1	LP recognized		GE2855
LPR channel 1	LP recognized		FU3036
LPR channel 1	LP recognized		FU3036
LPR channel 1	LP recognized		G59494
LPR channel 1	LP recognized		G5494
LPR channel 1	LP recognized		GE2855
Operator protocol 1	Unclassified		
LPR channel 1	LP recognized		FU3036

Parameter
Recognizer
Country
Recognition t
Validity
Direction
Regional code
Camera Camera 1

FU3036
LPR channel 1
2018-08-31 16:46:52

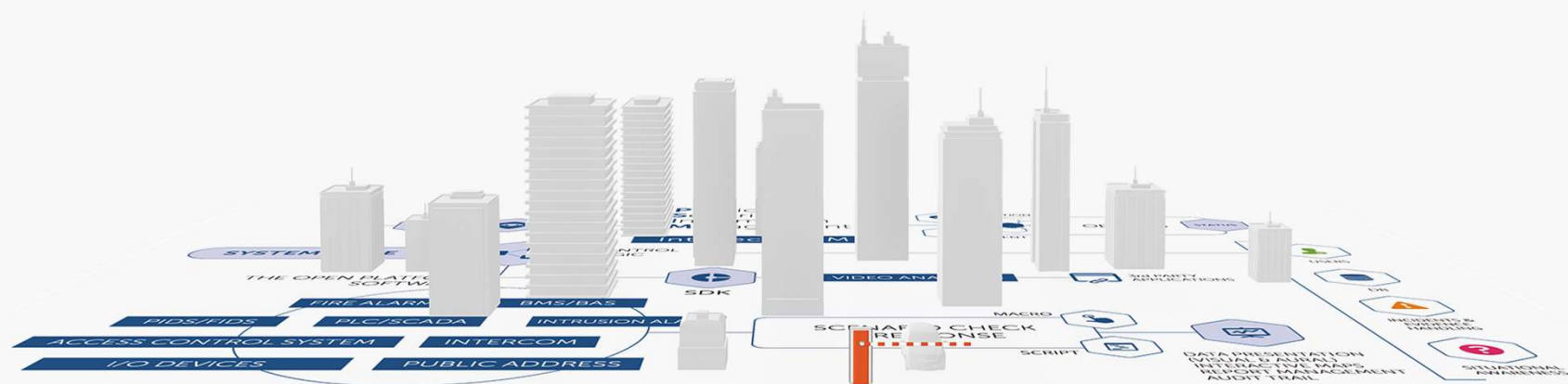
FU3036
LPR channel 1
2018-08-31 16:46:17

Monitor/MONITOR1
31-08-18 16:46:57

CAMERA - 1

[▶ WATCH VIDEO](#)

Video Analytics



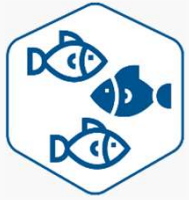


Scene Analytics Based on Object Tracker

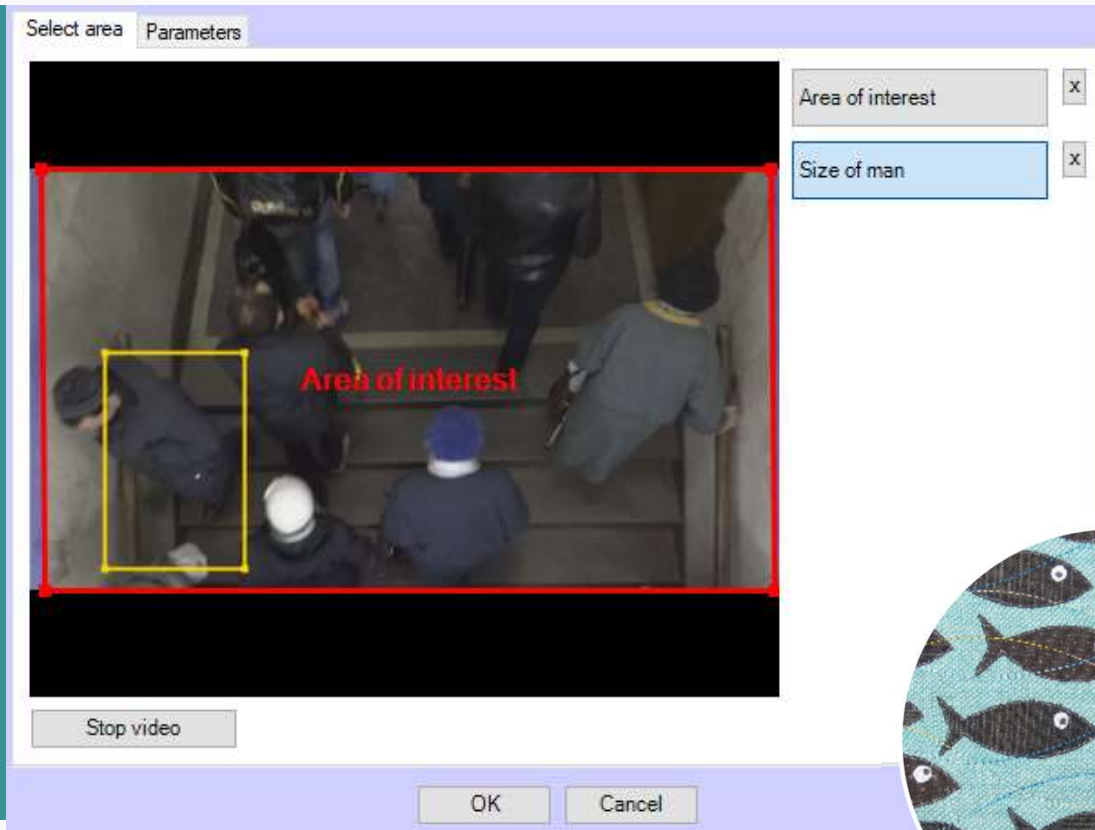


VMD in a specified zone:

- Motion in zone
- Zone entry
- Zone exit
- Crossing zones
- Appearance of an item in zone
- Disappearance of an item in zone
- Stopping in zone
- Loitering/presence in zone for over 10 seconds
- Abandoned object



Movement Against the Crowd Detection Tool

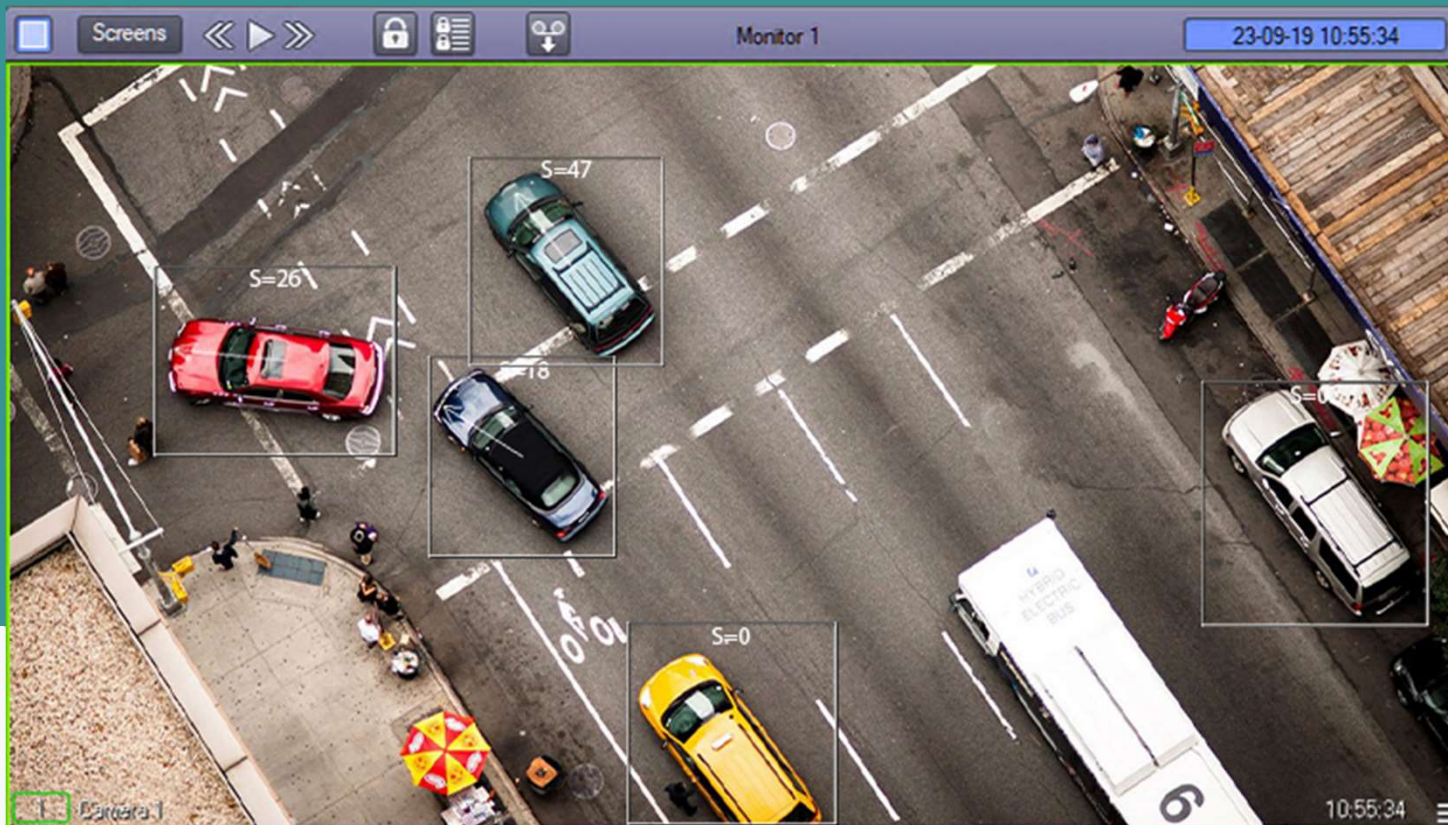


The video analytics detects objects moving in the opposite direction to the rest of the group.





Neural Filter



- Neural network–based classifier.
- Individually trained.
- High classification accuracy.
- The neural filter helps the tracker recognize specified types of objects, e.g. humans or vehicles.



AI Neural Network Analytics

Tailor-made neural
network tools



WATCH VIDEO



Track and count specific object
types



WATCH VIDEO



Detect abandoned objects



WATCH VIDEO



Recognize potentially dangerous
situations



AI-Powered Behavior Analytics

Pose recognition



- Behavior Analytics recognizes potentially dangerous situations by detecting specific human poses: for example, a cashier's raised arms, or a person crouching by an ATM.
- Based on Behavior Analytics, the Active Shooter tool detects a potential gunman in real time.
- Swift alerts to first responders minimize the risks for individuals, groups, and facilities.



E X P E R I E N C E T H E N E X T [®]

Thank you!

www.axxonsoft.com