



# TRASSIR Neuro Detector

## Detector and Object classification module

Detection of people and vehicles, as well as animals and birds in the video stream to ensure the safety of the site and effective business intelligence



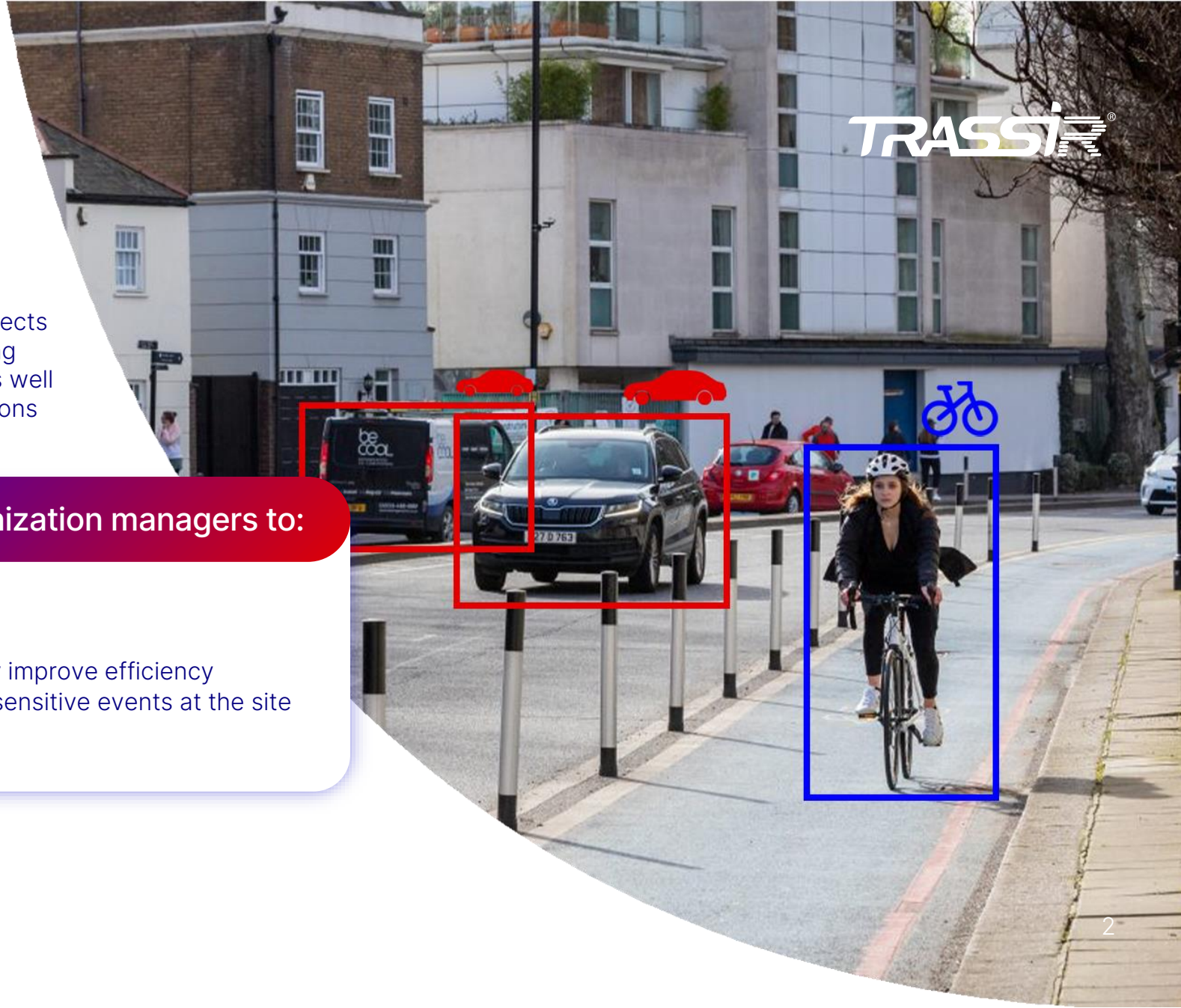
# TRASSIR Neuro Detector

Smart video analytics module that supports detection and classification of monitored objects in selected zones, their counting, and sending notifications in the event of a trespassing, as well as alerting the management of critical situations

It is designed to allow the organization managers to:

- Improve control of the territory
- Control access to "sterile areas"
- Assist security services to significantly improve efficiency
- Act in a timely manner in response to sensitive events at the site
- Eliminate false alarms

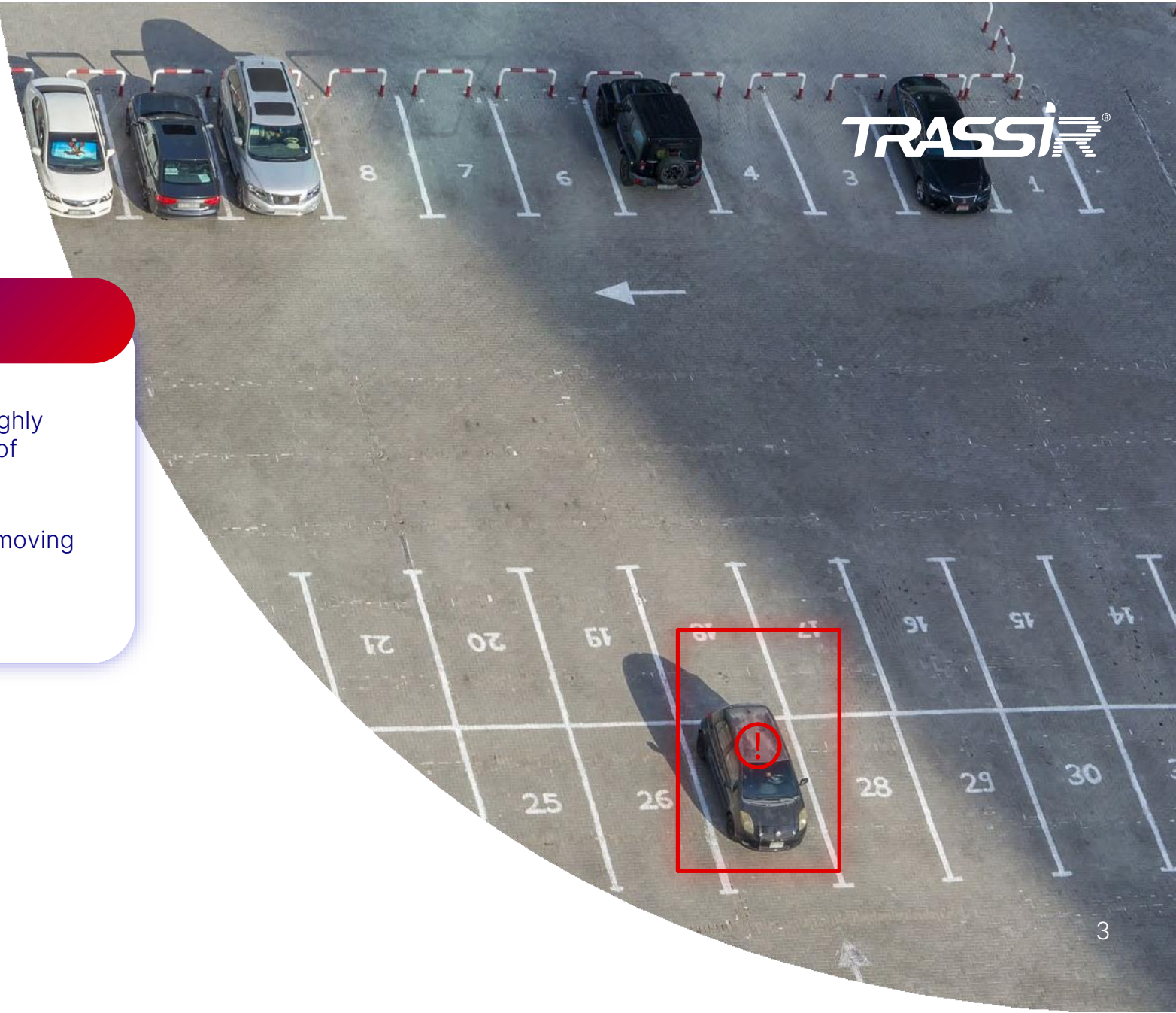
TRASSIR®



# TRASSIR Neuro Detector

## How does it work:

- The neural object detector allows for highly accurate recognition and classification of objects
- The module avoids triggering on other moving objects, such as trees and animals (as opposed to a motion detector)



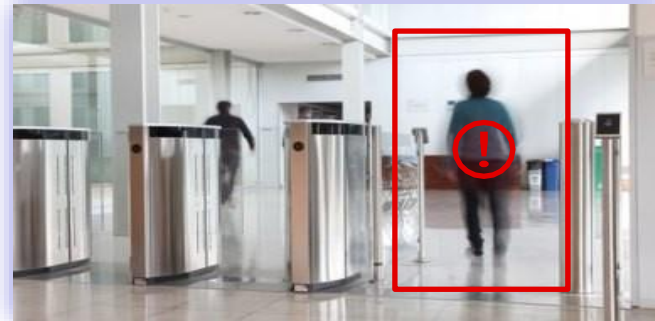
# Neuro Detector usage scenarios



## Improving access control to restricted areas

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Neuro Detector allows you to quickly react to unauthorized access to the territory of the object. Thanks to object classification, it is possible to set up access control for both a person and a vehicle. The efficiency of the security service is increased, as there is no need to constantly view all cameras or cameras with motion. The operator only views the cameras where a violation has been recorded. Thanks to this, one operator can monitor a much larger area, including several sites.

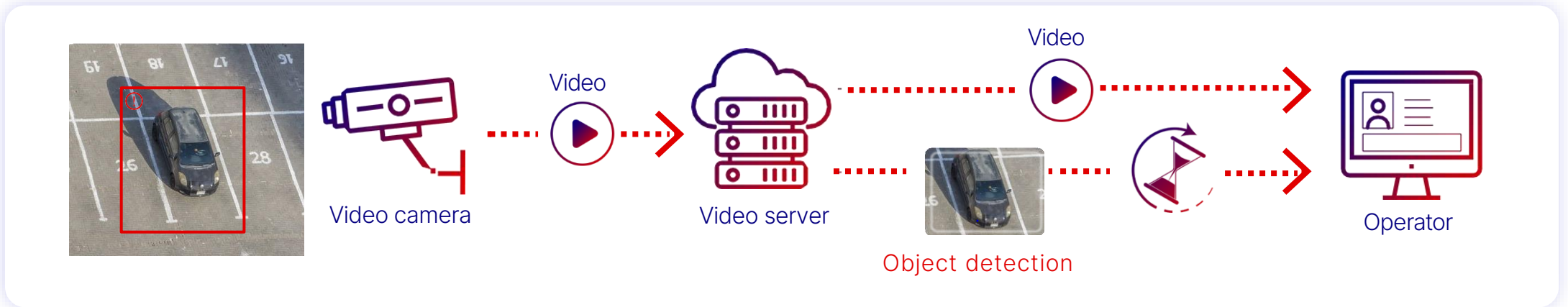


## Staff performance monitoring

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Alarms upon entry into sterile areas can ensure safety at the site and exclude the imposition of fines on the organization. Settings for areas mandatory to be visited help to monitor the performance of employees

# Solution architecture. How does it work?



## Reaction Scenarios:

Notifications in the TRASSIR interface

### Report export:

- Frequency of occurrence of incidents
- Smart search for events in the archive using the built-in function
- Active Search

### Integration with on-site systems:

- API integration
- Data export in XLSX and CSV
- Data access using SQL
- Option to customize notifications and reports using Python

### Notifications:

- Email – notifications
- Telegram

# Solution functionality. How does it work?



# Areas of application



**Security services**



**Households**



**Public services**



**Business centers  
and offices**



**Enterprises**



**Warehouses**

# Solution benefits



## Precision and security

The use of deep learning networks allows the most accurate recognition and classification of objects

## Increasing site

Neuro Detector works effectively at any time of the day and at remote sites, allowing a greater number of risk zones to be covered than would be possible with human resources

## TRASSIR VMS management system

A local system for easy management of cameras and servers. It allows monitoring the health of the servers, and ensures the reliability of the archive record

## Operator interface

Enables monitoring of the situation in real time, prompt notification of critical situations and generation of reports

## Benefits and investment

Changing the model for controlling risk areas from employing a large number of personnel for patrolling tasks to a visual check of alarms by the operator and a security response only to confirmed incidents

## Integration

The necessary set of mechanisms for integration with hardware

## Optimization of staff workload

Option to view alarms remotely, minimizing false alarms reduces the number of personnel needed to monitor facilities

## TRASSIR CMS management system

A corporate solution for managing tens of thousands of servers and hundreds of thousands of cameras within a single system. System health monitoring. Access restrictions. Consolidated video analytics data collection

## Modification

Option to expand functionality and create customized solutions



# You may also be interested in:



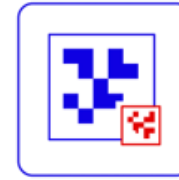
## AutoTRASSIR + INT

Is designed to automatically recognize license plates in the camera's view



## ActiveStock+ INT

Used for event-based video monitoring of warehouse operations



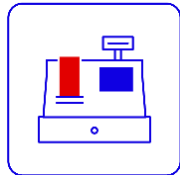
## ArUco Detector INT

ArUco Detector allows you to recognize ArUco-markers applied to objects



## Staff Tracker INT

Allows employees work performance to be inspected to increase customer service level



## ActivePOS+ INT

Intelligent cash control module



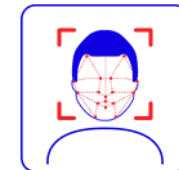
## Pose Detector INT

Detects and classifies people's postures. For instance, it can help identify and track unusual behavior



## Face Mask Detector INT

Module for monitoring the use of face masks in public places



## Face Recognition INT

Intelligent face recognition and search module using a pre-configured database of people (residents, staff, etc.).

# Neuro Detector. Stories of success



Eastern Europe's largest plant specializing in the production of corrugated cardboard materials has decided to upgrade its security system. The area of the plant is approximately 35,000 m<sup>2</sup>

Industry: Manufacturing

## Key objectives of the project:

- Installation of a video surveillance system;
- Organization of people detection and face recognition system;
- Integration of video surveillance with ACS;
- Organization of a license plate recognition system.

## Implementation results:

- Reducing the number of security personnel while significantly increasing the level of security at the site;
- The security IP of TRASSIR technologies it was possible to budget was cut by 25%.



# Neuro Detector. Stories of success



An international network of large (up to 10,000 m<sup>2</sup>) shopping centers, specializing in wholesale sales of food and non-food products to businesses came to realize the inefficiency and obsolescence of the current security system

Industry: Retail



## Key objectives of the project:

- Improving the performance of video surveillance operators;
- Ineffective surveillance of the store area at night. detecting movement in the protected area and alerting security personnel;
- Detecting persons and determining their involvement in the facts of unlawful acts;
- Automation of the process of allowing vehicles into the store unloading zones using the license plate numbers entered in the database.

## Implementation results:

- The solution is fully integrated into 6 stores. Following the results of successful implementation, 12 more stores will be equipped with the solution in the near future. Currently each system is local, but after all sites are equipped, the customer plans to centralize the system and create a unified monitoring center based on TRASSIR CMS;
- The company's investment of €3 million has already paid for itself within the first year of implementation;
- Staffed security posts were reduced;
- Optional: The Queue Detector solution helped relieve the cash registers during peak hours.



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