

Securing mass transportation hubs with innovative video analytics technology





Ι,

## Reducing the decision-making loop

#### Optimizing security awareness, incident detection and efficient response in mass transportation hubs

The security of urban mass transit systems has become a major issue around the world.

Terminals of airports, rail and underground stations are some of the most densely populated sites in the urban environment, which makes them a vulnerable target for malicious perpetrators and health hazards. Keeping these places safe while guaranteeing a seamless journey of commuters and travelers is a real challenge for public authorities and security officers. A large number of technologies have been adopted to accompany field security officers neither omnipresent who are nor omnipotent. However, these technologies must be constantly evaluated for their effectiveness. They should be kept up-to-date with the latest innovations that aim for even higher security and convenience for passengers at the same time.

Security video cameras are among these essential tools and have been widely deployed over the years. However, CCTV operators struggle to remain alert and view all footage - in case of a post-event investigation, let alone for real-time prevention of a security incident. Particularly in such crowded areas as train and underground platforms, it is almost impossible for the naked eye to identify any abnormal behavior.

This raises questions about the true return on investment of CCTV as a security solution. Even if the use of enhanced video analytics solves one problem, the challenge of actually making a decision and acting upon the intelligence the operators have just received still remains. A combined platform is needed that supports the analysis of massive amounts of complex data and informs the tactical resources available on site to respond effectively.

What if true situational awareness and operational intelligence was combined with the most sophisticated video analytics platform and over 40 years of experience working with public and private security forces globally?

Welcome to IDEMIA!

## Boosting security with IDEMIA Situational Awareness: from alerts to actionable intelligence

The main vision in today's datadriven world of public and private security is to use the available data to prevent safety and security incidents from happening in the first place. Enhanced video analytics technology can turn a simple video camera into a smart device that provides real-time insights. This allows operators to better manage the security for vulnerable places such as mass transportation hubs.

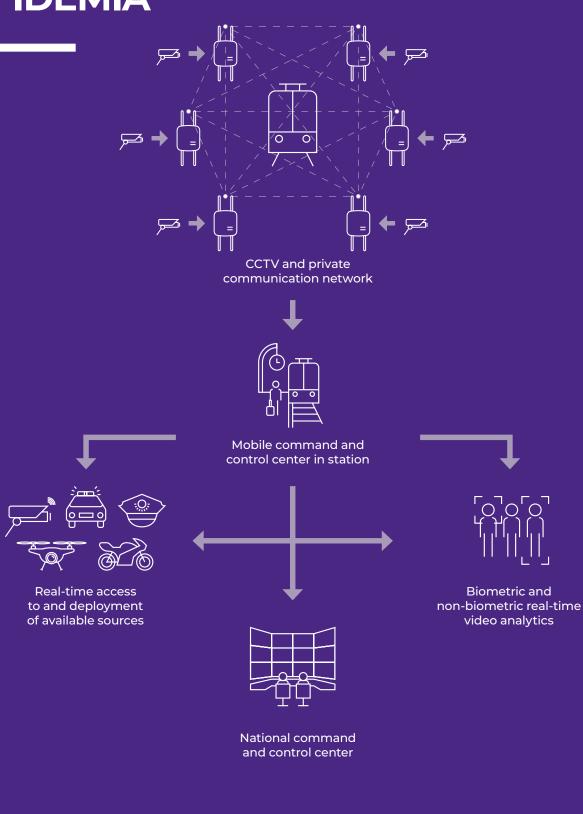
However, alerts from these systems without actionable, efficient processes behind them remain just noise. This is where IDEMIA Situational Awareness comes in. IDEMIA Situational Awareness combines the most intuitive command and control software solution on the market with our advanced video analytics platform. Furthermore, any potentially valuable IP sensors can be added to the system, allowing a truly holistic view of the situation.

The combination of a post-event investigative approach with real-time action enhances the efficiency and effectiveness of incident response. IDEMIA can support public and private security forces in every aspect along the route to intelligence-driven, actionable and efficient incident management:

- Installation of video analytics software for detection, tracking and identification of individuals or objects. Video analytics can also be used for measuring crowd density, detection of loitering, counting of people or to detect specific behaviors such as wearing or not wearing masks
- 2. Integration of IDEMIA's Situational Awareness solution to create the most intuitive tactical command and control center on the market

## ((

# Situational Awareness by IDEMIA



()) IDEMIA

## Enhanced video analytics software for detection, tracking and identification of individuals, vehicles or suspicious objects

IDEMIA's video analytics solution processes vast amounts of video data in real time. It allows multi-object (faces, silhouettes, vehicles) detection, tracking and identification from video streams against a database. Video analytics can also be used for measuring crowd density, detection of loitering, counting of people or to detect specific behaviors such as wearing or not wearing masks. This enables the identification of known troublemakers and other persons of interest, or the detection of health hazards. In the case of a missing person, the fast real-time processing allows the reunion of individuals in the shortest amount of time.

Key functionalities of IDEMIA's enhanced video analytics software for mass transportation hubs:

- Spotting and tracking of left luggage
- Monitoring and predicting crowd activity
- Identifying
   suspicious activities
- Notifying operators of prohibited intrusion into restricted areas

Alerts based on crowd density or abnormal or prohibited behaviors and events enable quick intervention before an incident becomes a crisis. The system can send alerts when identifying a suspicious object such as a left piece of luggage. This enables operators to control the object swiftly and efficiently and to identify and track the person carrying it.

Our facial recognition algorithms are highly rated by NIST and have a demonstrated ability to perform accurately under demanding real-life circumstances.

The post-event capabilities of IDEMIA's video analytics solution have been developed in cooperation with experienced investigators to best serve your needs. Instead of watching hours of footage, the system allows you to isolate potential clues faster and more efficiently. You can focus on important images and video segments that are relevant to your investigation. From there, you can further shortlist objects and suspects and progress swiftly with your investigations.

## (()) IDEMIA

## Complement your tactical command and control center with IDEMIA's Situational Awareness solution

IDEMIA's Situational Awareness solution combines our advanced video analytics capabilities with the most intuitive command and control software solution on the market. Upgrading your command and control center with IDEMIA's technology ensures you have the most efficient incident prevention and response technology.

The aim is simple:

- Detect threats quickly
- > Analyze the situation in real time
- > Know your available resources
- Decide and respond as quickly as possible based on as much intelligence as possible

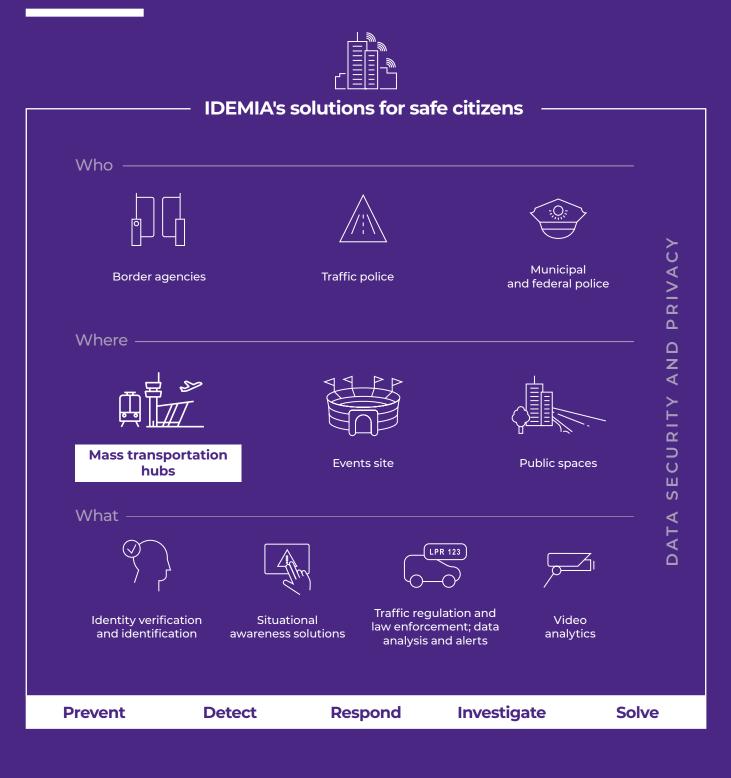


IDEMIA's Situational Awareness allows you to react to an alert immediately, looking for available forces that are closest to the suspicious incident or object. Through the intuitive interface combined with our video analytics platform, your operators can identify the person related to the left luggage in the shortest amount of time and track the individual in real-time. Gatherings with too many individuals, loitering or not respecting social distancing can be detected and acted on early. Decisive information from the system and pre-agreed processes allow managing officers to decide and act efficiently even under the greatest pressure without failure. Incidents can be prevented or de-escalated swiftly.

IDEMIA's Situational Awareness offers the greatest flexibility. You can plug in as many IP sensors as you wish or focus on security incident response only. Adding capabilities to detect and respond to natural, health or technological disasters gives you the option to protect your citizens in the most holistic way possible.

## (()) IDEMIA

# IDEMIA's all-encompassing solutions for public security



## IDEMIA's experience

DEMIA's vision is to enable a secure, safe and convenient environment for all of us, whether in our cities, on the road or while traveling. To fulfill this mission, IDEMIA has worked alongside the world's leading law enforcement agencies for over 40 years.

As a leader in the market, we combine biometrics with automation technology and artificial intelligence for enhanced public security.



>100 million travelers processed every year



**A leading contributor** to various European research projects



### Multi-object video analytics



#### 170+ ABIS deployed worldwide



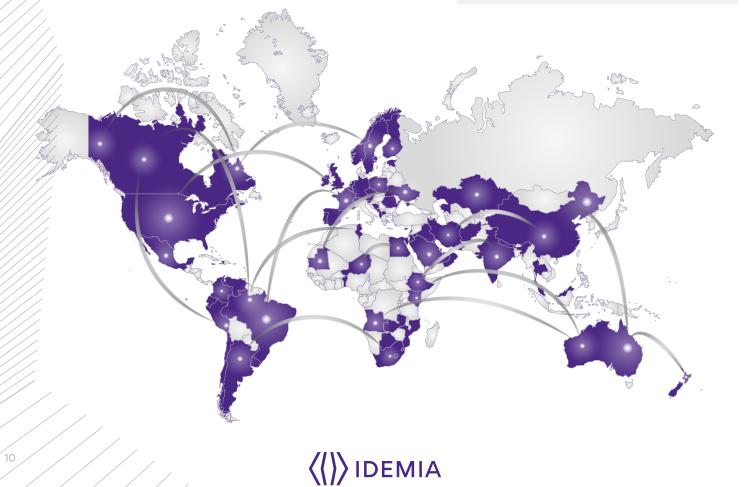
**Situational awareness** from threat detection to response

-🚫	
J	
۲	
$\circ$	

Smartphone-based in-the-field biometric checks



**4,600+ traffic law** enforcement systems





# 

All rights reserved. Specifications and information subject to change without notice. The products described in this document are subject to continuous development and improvement. All trademarks and service marks referred to herein, whether registered or not in specific countries, are the property of their respective owners.



www.idemia.com