WORLD'S LEADING AI ENGINE BUILDERS

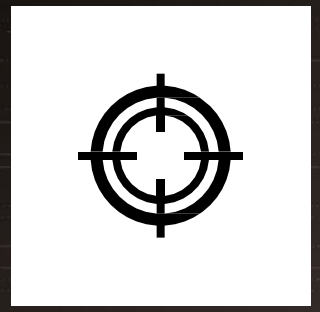
VAIDIO

AICUDA TECHNOLOGY & IRONYUN

VAIDIO AI VISION PLATFORM

AICUDA TECHNOLOGY

IRONYUN™



ACCURATE
ALERTS

MAXIMIZED
EFFICIENCY

FAST
VIDEO SEARCH

AI-ENABLED
ANALYTICS

COMPREHENSIVE
FUNCTIONALITY

VERSATILE
More analytics than any alternative

FAST
Search days of video in minutes

ACCURATE
Reduce false positives by orders of magnitude

IMMEDIATE
Real-time alerts in 3 seconds or less

INTELLIGENT
Natural-language search across multiple objects

OPEN
Integrate with 97% of ONVIF devices

IMPACTFUL
Increase alert readiness, improve productivity

MUSEUMS & ART GALLERIES

VAIDIO™

AI-BASED ANALYTICS

	Detect/ count	Attribute/ classification		Identification
People	**Area total** Count within the field of view or within a specified area **Line total** Entry/ exit count	**Clothing** Jacket, Coat, Suit, Shorts, Trousers, Skirt, Long-sleeved shirt, Short-sleeved shirt	**Clothing color** 8 colors: Black, White, Pink, Yellow, Blue, Green, Red, Silver / Gray	**Face recognition** Individual
Vehicles	**Area total** Count within the field of view or within a specified area **Line total** Entry/ exit count **Illegal parking detection** Detection of illegal parking in a car park section/ area	**Model** 4 models: Car, Bike, Bus, Truck, Motorbike **車色** 8 colors: Silver/Gray, Black, White, Pink, Green, Yellow, Blue, Red	**Car make & model** 200 makes and 2000 models: Audi, BMW, BUICK, CHEVROLET, CHERY, CITROËN, DAIHATSU, Ford, HONDA, HYUNDAI, KIA, LEXUS, mazda, Mercedes-Benz, MITSUBISHI MOTORS, NISSAN, PEUGEOT, SUBARU, SUZUKI, TOYOTA, VOLVO	**License plate recognition** 100+ countries worldwide

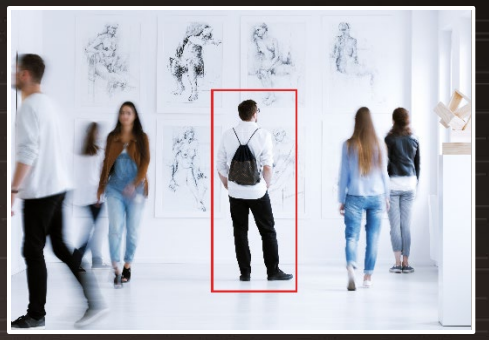
VAIDIO™

AI VIDEO ANALYTICS

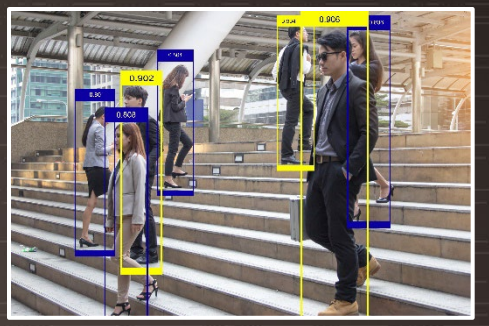
Visitor Counting

Suspect Search

Tracking



Face Detection



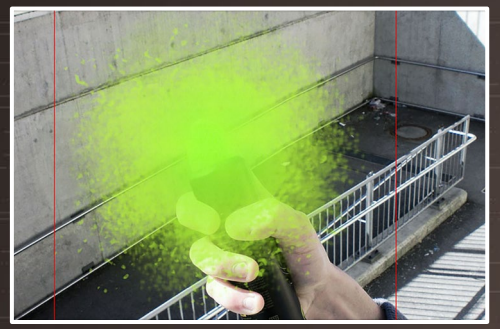
Staff Monitoring

VAIDIO™

AI VIDEO ANALYTICS

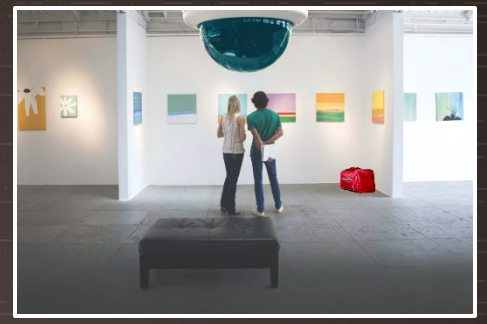
Heat Map

Camera Health Management



License Plate Recognition

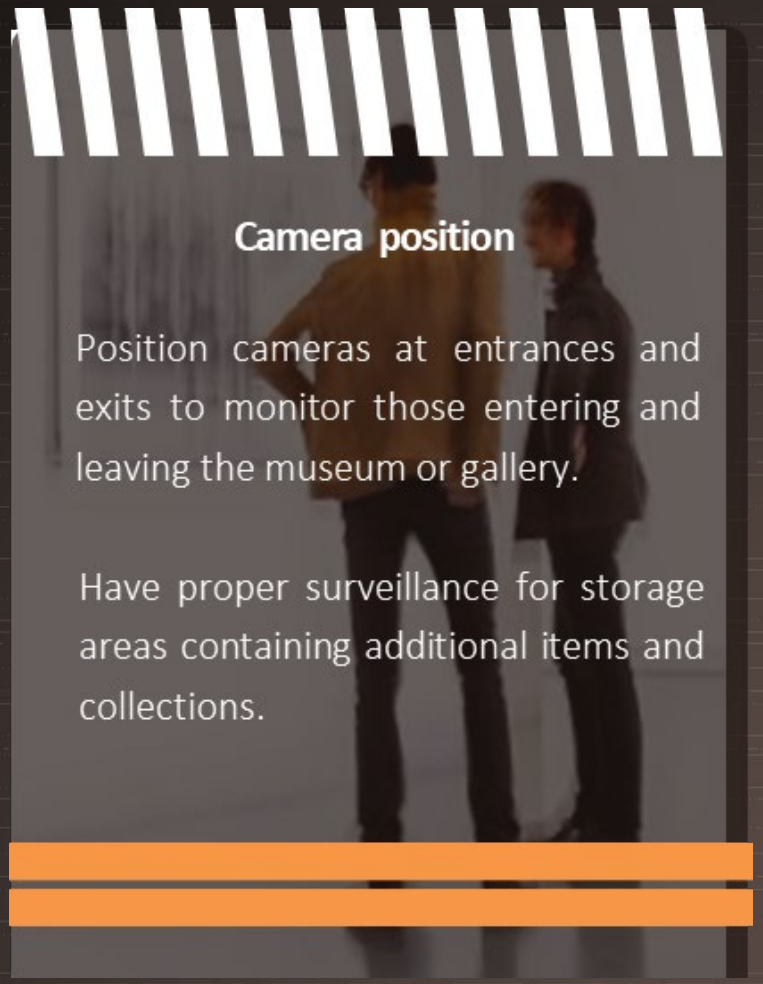
Abandoned Object



Smoke & Fire Detection

VAIDIO™

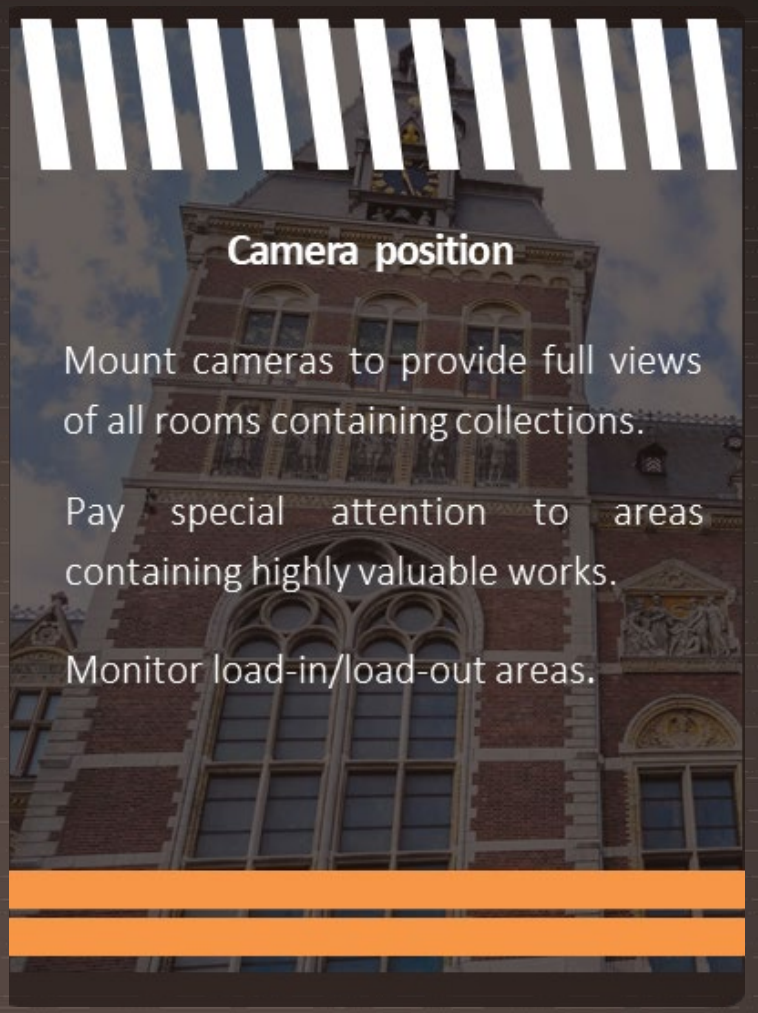
CAMERA POSITION



Camera position

Position cameras at entrances and exits to monitor those entering and leaving the museum or gallery.

Have proper surveillance for storage areas containing additional items and collections.



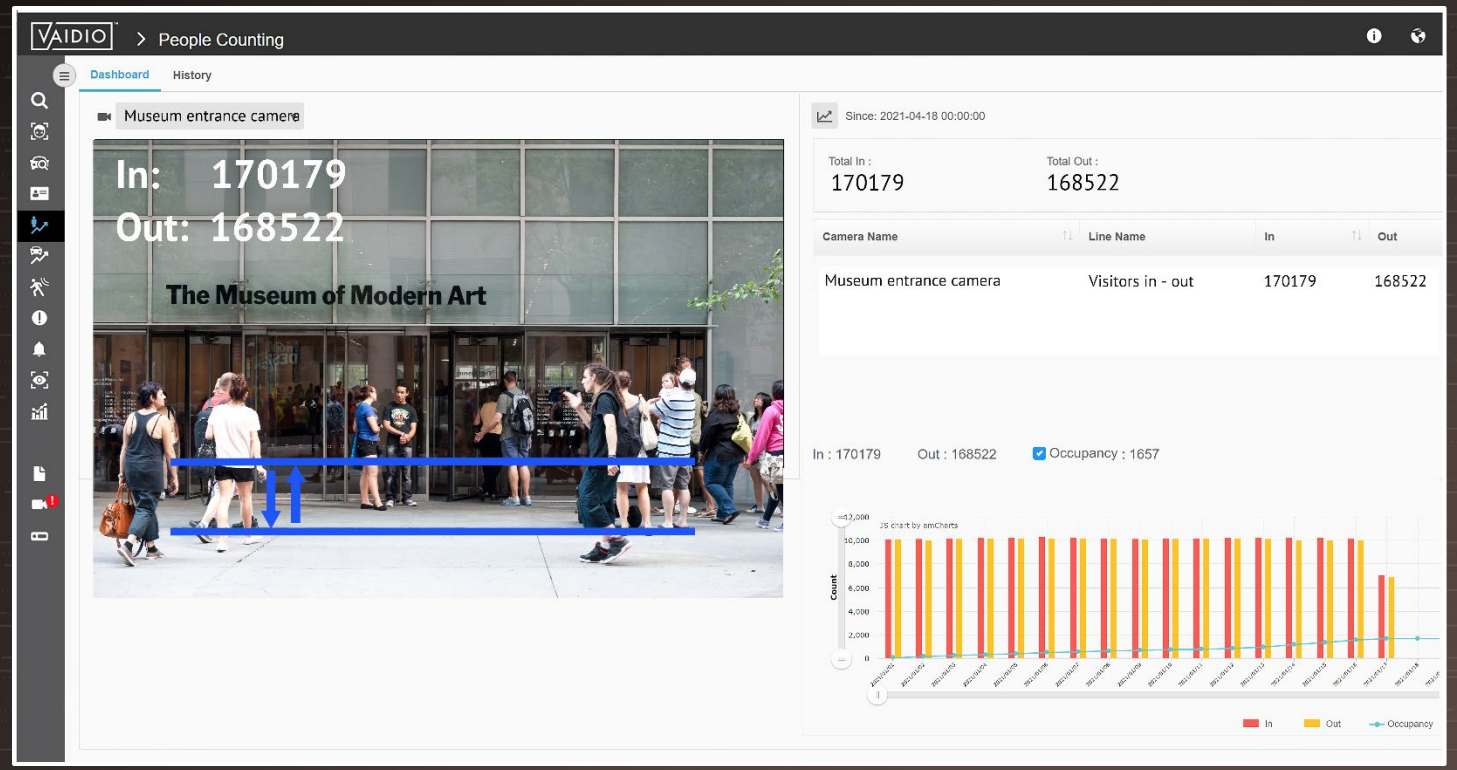
Camera position

Mount cameras to provide full views of all rooms containing collections.

Pay special attention to areas containing highly valuable works.

Monitor load-in/load-out areas.

VISITOR COUNTING



COUNT VISITORS IN A PRE-DEFINED AREA IN REAL TIME TO PROVIDE QUANTITATIVE AND ACTIONABLE INSIGHTS FOR BUSINESS INTELLIGENCE AND DATA-DRIVEN DECISION MAKING

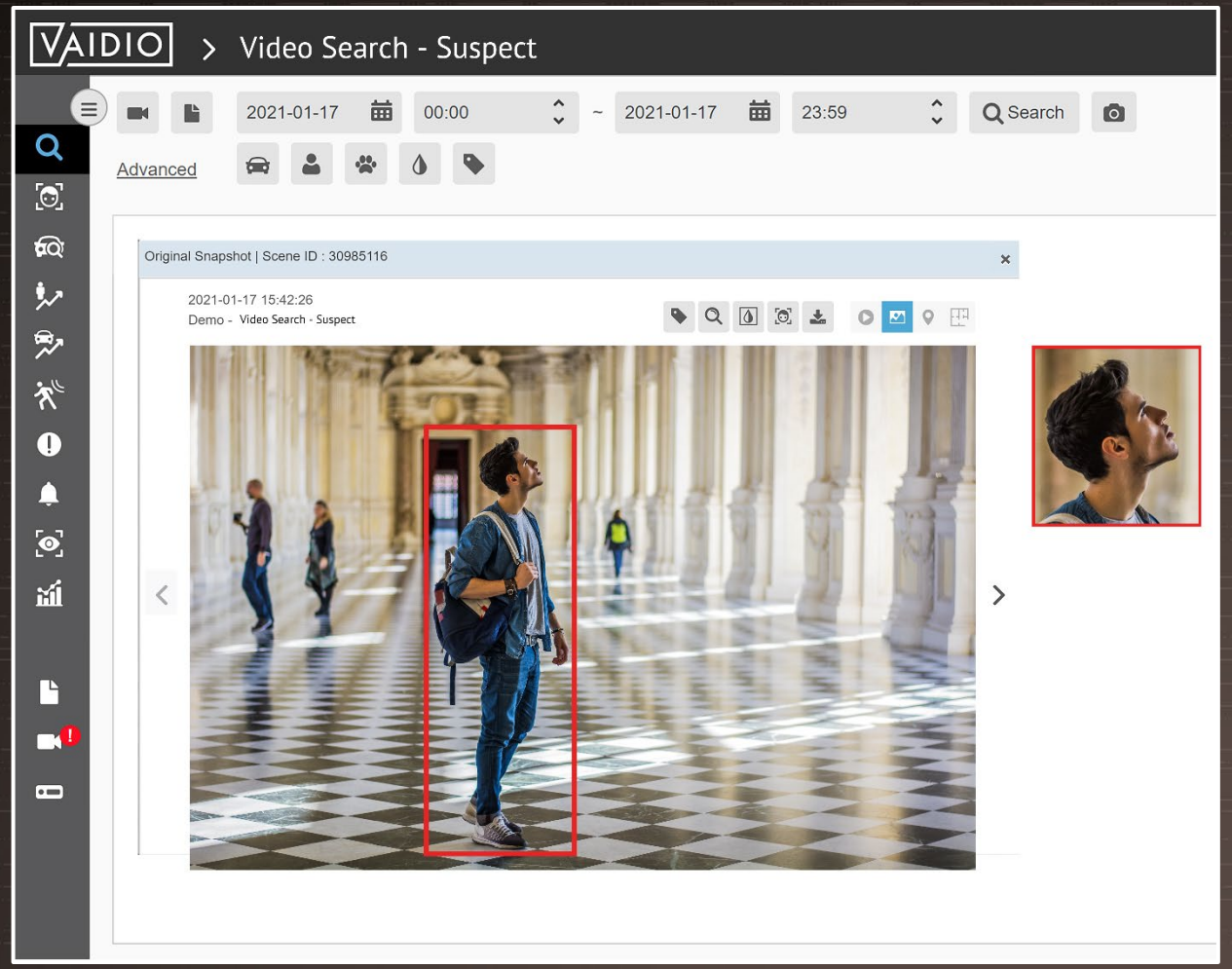
CALCULATE THE TOTAL TRAFFIC AND ANALYZE ATTENDANCE OF MUSEUMS AND ART GALLERIES IN A CERTAIN PERIOD OF TIME

ADJUST HOURS OF OPERATION AND WORK SCHEDULES OF STAFF MEMBERS BASED ON TOTAL TRAFFIC

GENERATE REPORTS AND ANALYZE VISITOR MOVEMENT

VAIDIO™

SUSPECT SEARCH



QUICKLY SEARCH AND FIND SUSPECTED OFFENDERS BASED ON CLOTHING COLOR, AGE AND GENDER

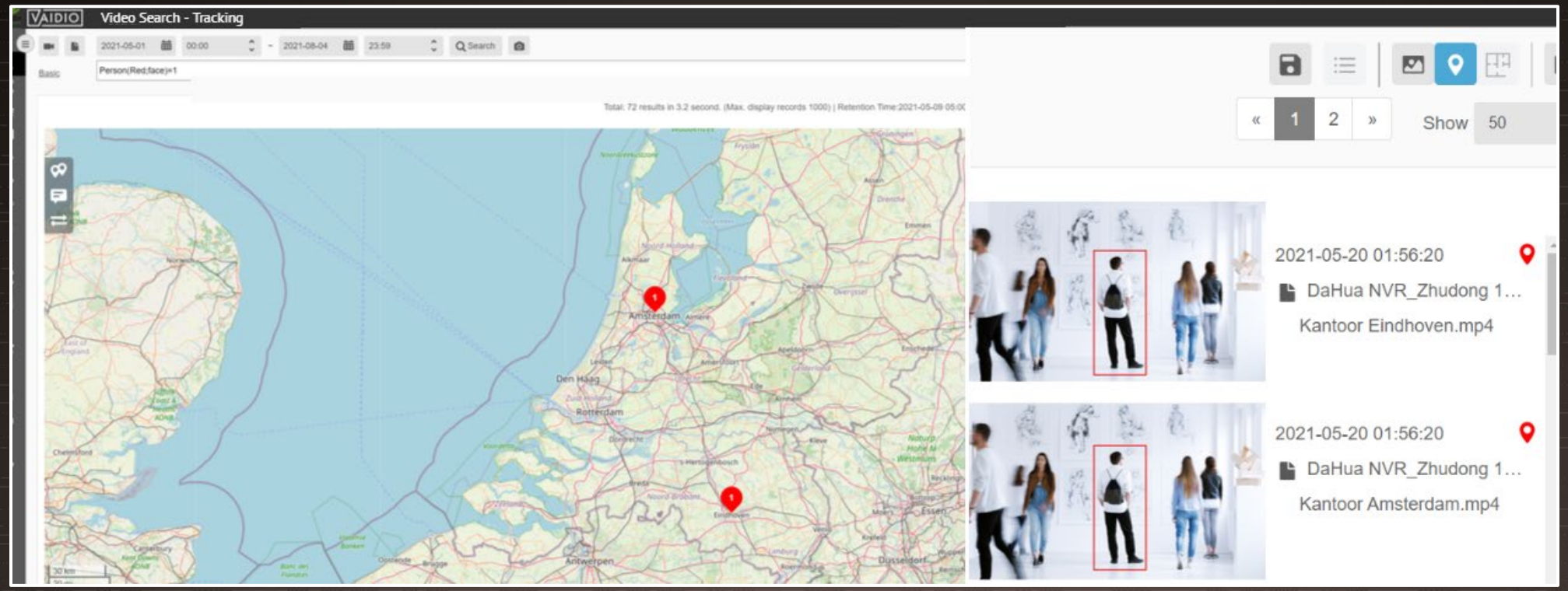
SEARCH FOR LOST CHILDS IN MUSEUMS AND ART GALLERIES

FOLLOW MOVEMENT ON THE PRE-LOADED PLAN OF THE MUSEUM OR ART GALLERY TO RECONSTRUCT THE ROUTE OF A SUSPECT

RECEIVE REAL-TIME ALERTS WHEN A SUSPECT WALKS INTO THE FIELD OF VIEW OF A CAMERA

VAIDIO™

TRACKING

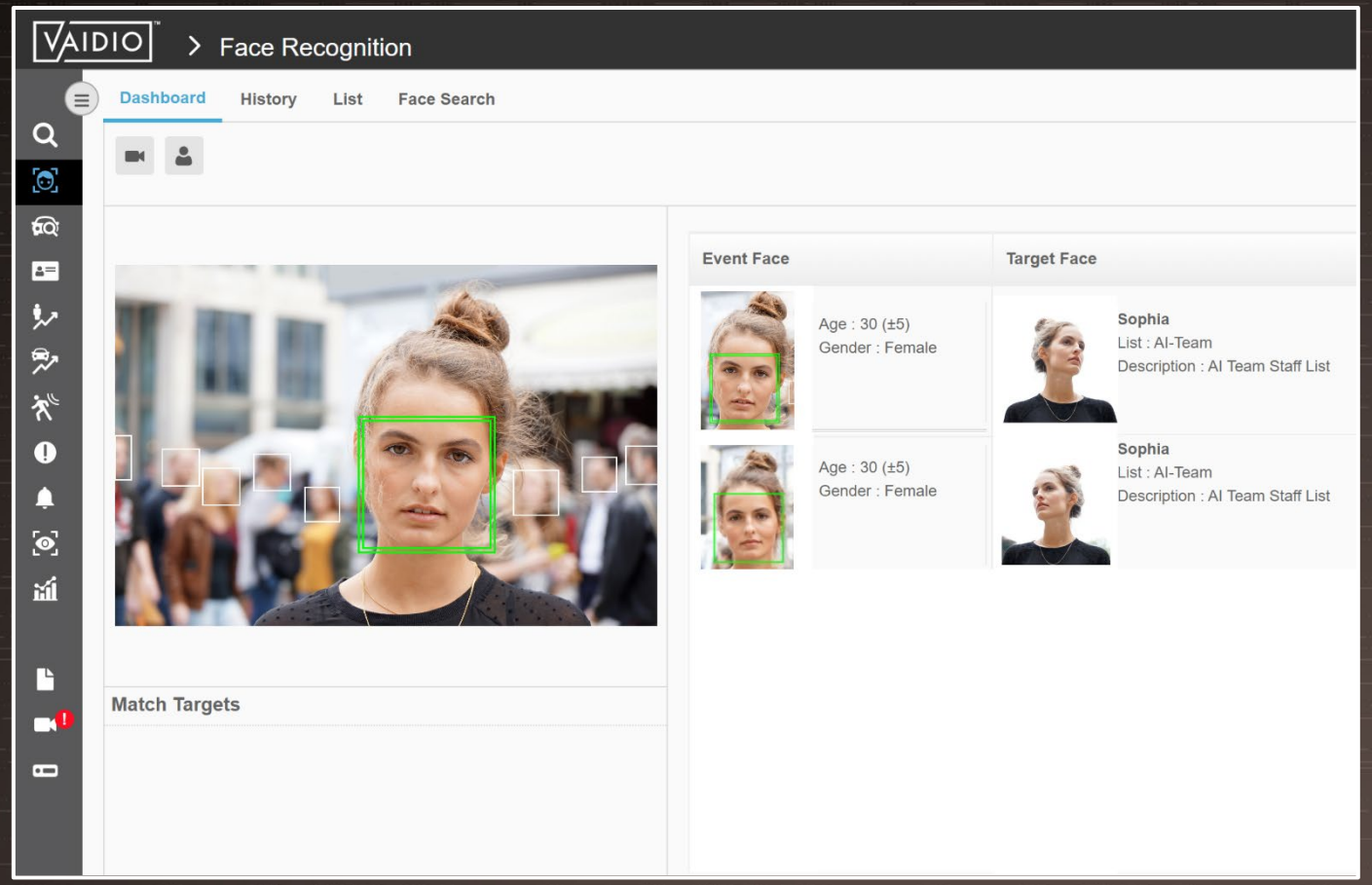


MINIMIZE DAMAGE OR LOSS OF PROPERTY CAUSED BY ACTIONS OF THIRD PARTIES AND ENSURE THE SAFETY OF MUSEUM VISITORS

RECEIVE REAL-TIME ALERTS INCLUDING CAMERA POSITION AND TIME STAMP WHEN SUSPECTED OFFENDERS TRAVEL FROM ONE LOCATION TO ANOTHER

VAIDIO™

FACE DETECTION



INTEGRATION OF VAIDIO AI-BASED FACE RECOGNITION IN ACCESS CONTROL AND HRM SYSTEMS TO UNLOCK CERTAIN AREAS FOR AUTHORIZED STAFF ONLY

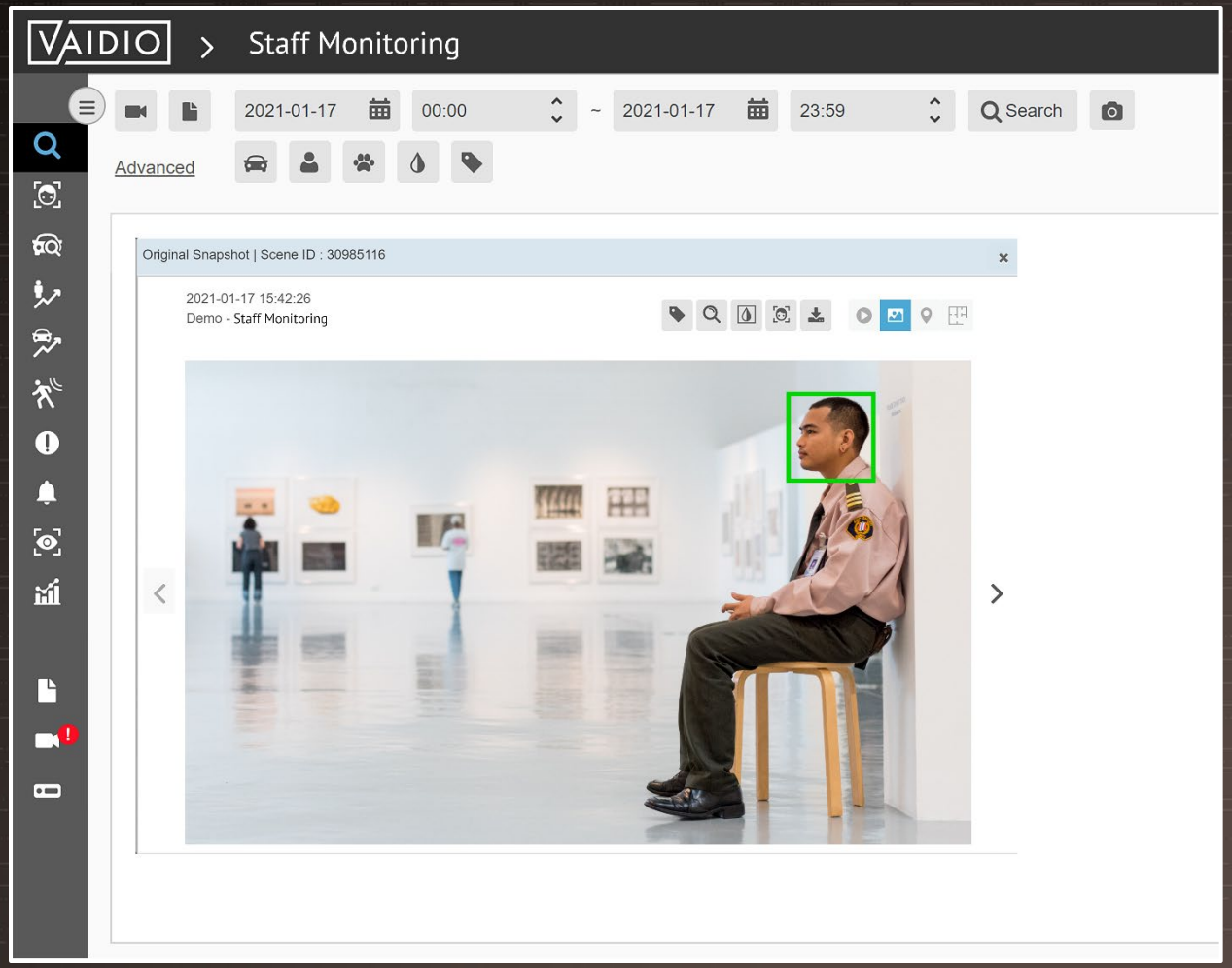
FACE RECOGNITION ACCESS CONTROL PROVIDES ACCESS TO THE DISPLAY AREAS, STORAGE ROOM AND OTHER LOCATIONS IN REAL-TIME AND PREVENTS FRAUD

TRACK TARGET PERSONS ON A MAP AND PERFORM CONTACT TRACING IN CASE OF ACCIDENT OR INCIDENT

ALERT SURVEILLANCE STAFF FOR KNOWN ART THIEVES (BLACKLIST)

VAIDIO

STAFF MONITORING



REDUCE THE RISK OF OCCURRENCE OR UNDESIRABLE SITUATIONS RELATED TO ABSENCE OF STAFF IN THE MUSEUM OR ART GALLERY

TRIGGER ALERTS NOTIFYING MUSEUM OR ART GALLERY MANAGERS OF LONGER THAN USUAL WAIT TIMES

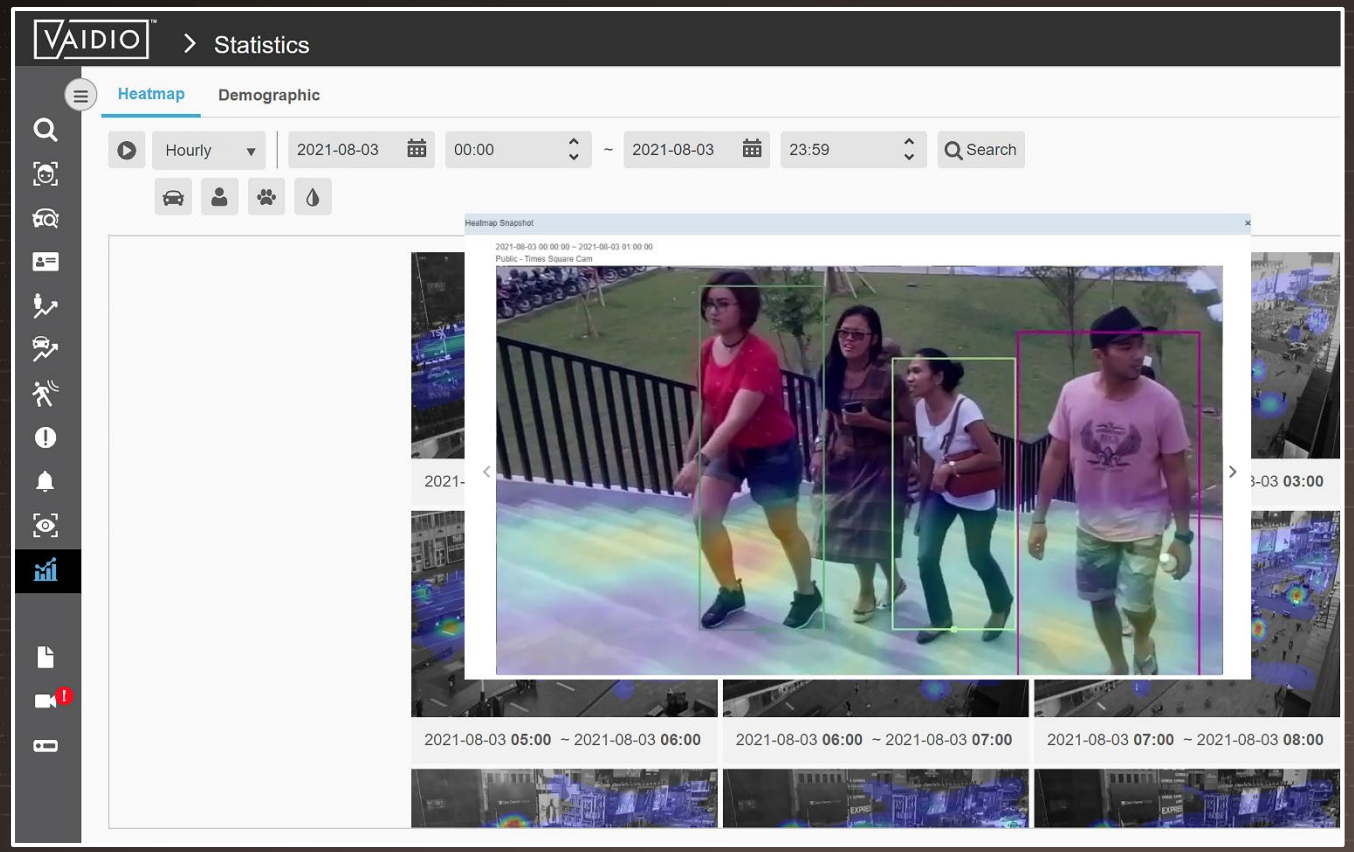
PREVENT WAITING TIMES FROM HAPPENING TO OPTIMIZE VISITOR EXPERIENCE

ALIGN STAFF RESOURCES WITH THE VISITORS FLOW

PREVENT THEFT AND UNAUTHORIZED ENTRY FROM STAFF IN BACK OFFICES AND STORAGE ROOMS

VAIDIO™

HEAT MAP



VISUALIZATION OF VISITORS MOVEMENT IN A MUSEUM OR ART GALLERY

TRACKING WHERE VISITORS SPEND TIME

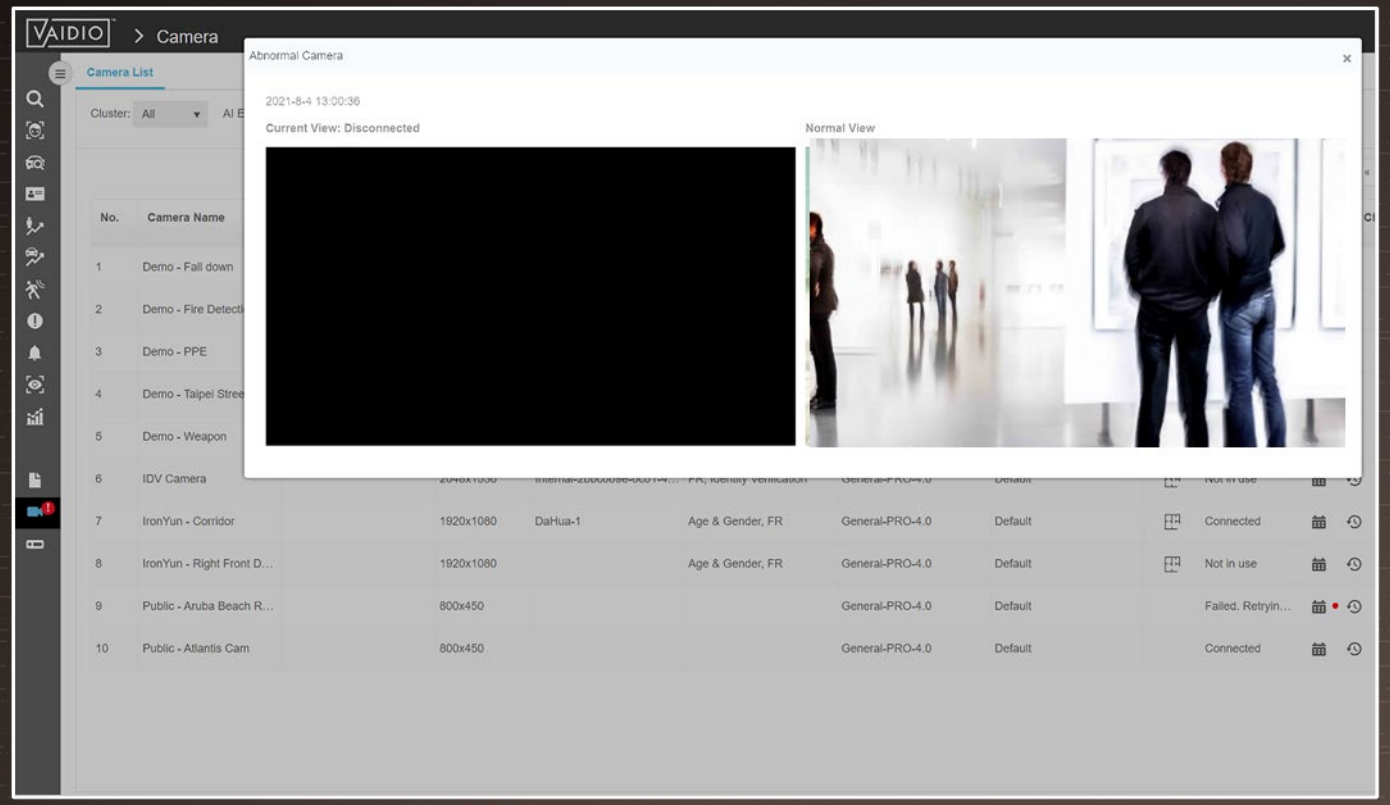
ANALYZE IN WHICH OBJECTS, ARTS AND PAINTINGS VISITORS ARE INTERESTED IN

OPTIMIZE MARKETING STRATEGY AND EXHIBITION LAYOUT BASED ON HEAT MAP INFORMATION

CREATE THE ULTIMATE VISITOR EXPERIENCE

VAIDIO

CAMERA HEALTH MANAGEMENT



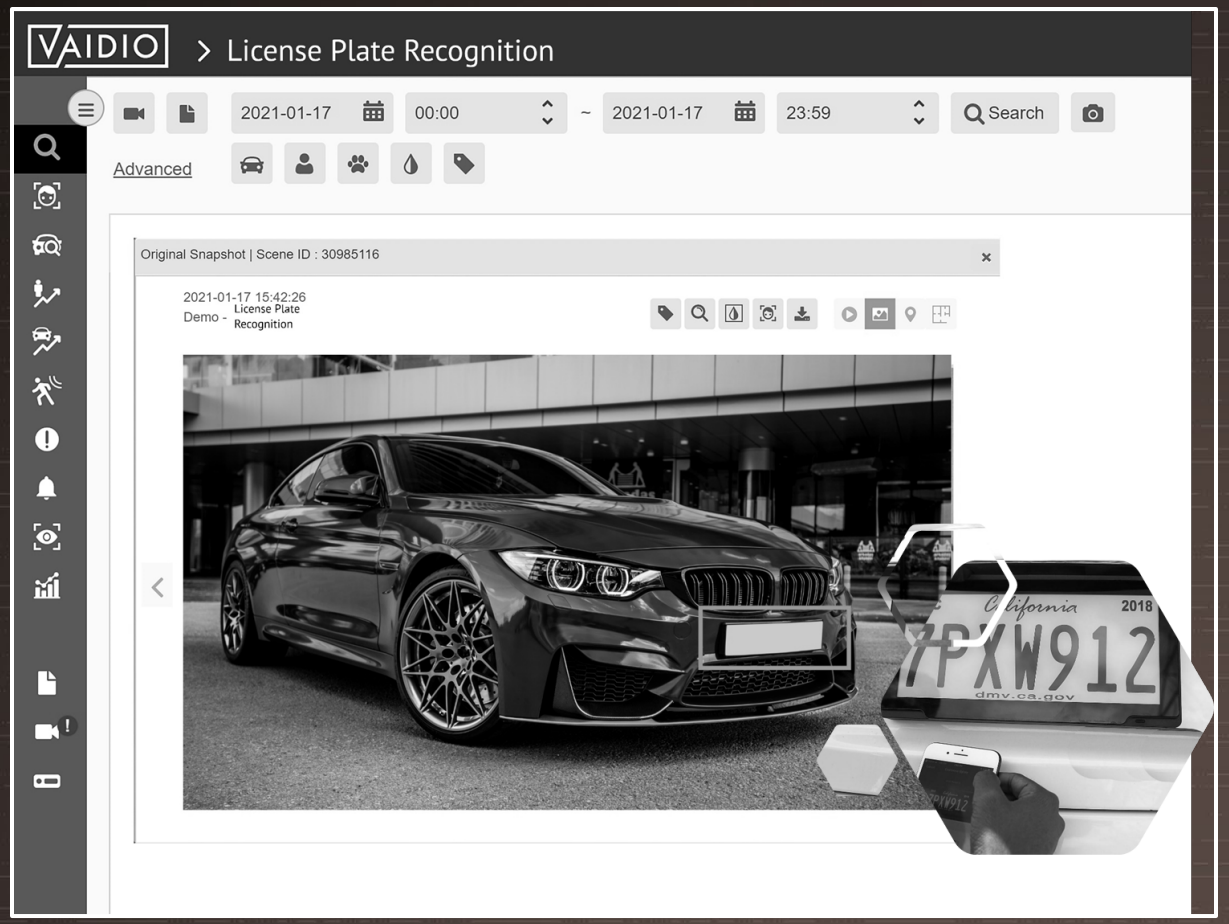
MINIMIZE THE TIME OF INOPERABILITY OF THE VIDEO SURVEILLANCE CAMERAS OF A MUSEUM OR ART GALLERY

RECEIVE REAL-TIME ALERTS WHEN CAMERAS ARE BLURRED, BLOCKED OR REPOSITIONED

ENSURE SAFETY OF VISITORS, STAFF, PROPERTY AND INFRASTRUCTURE OF MUSEUMS AND ART GALLERIES

VAIDIO™

LICENSE PLATE RECOGNITION



REGISTER VEHICLE LICENSE PLATES FOR AUTOMATIC ENTRANCE CONTROL

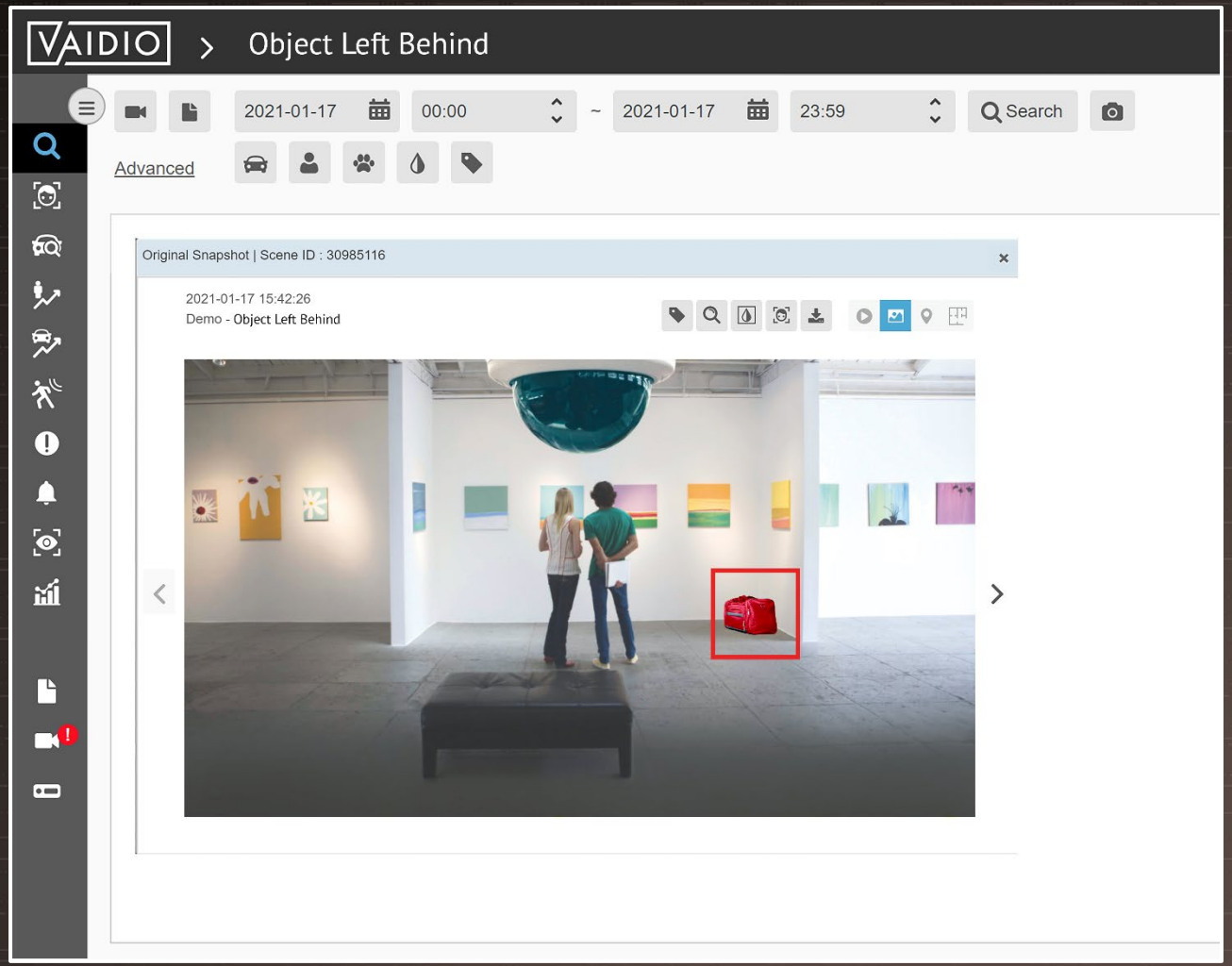
APPLY LICENSE PLATE RECOGNITION AND ENTRANCE CONTROL WITH WHITELIST FOR RESTRICTED PARKING AREAS FOR STAFF AND VIP VISITORS

TRIGGER ALERTS FOR VEHICLES THAT ARE ILLEGAL PARKED

MONITOR PERSONS THAT REMAIN AT THE PARKING AREA FOR A PROTRACTED TIME WITHOUT AN APPARENT PURPOSE (LOITERING)

VAIDIO™

ABANDONED OBJECT



PREVENT POSSIBLE ARMED ATTACKS AND ELIMINATE THE THREAT TO LIFE AND HEALTH OF VISITORS AND STAFF OF THE MUSEUM OR ART GALLERY

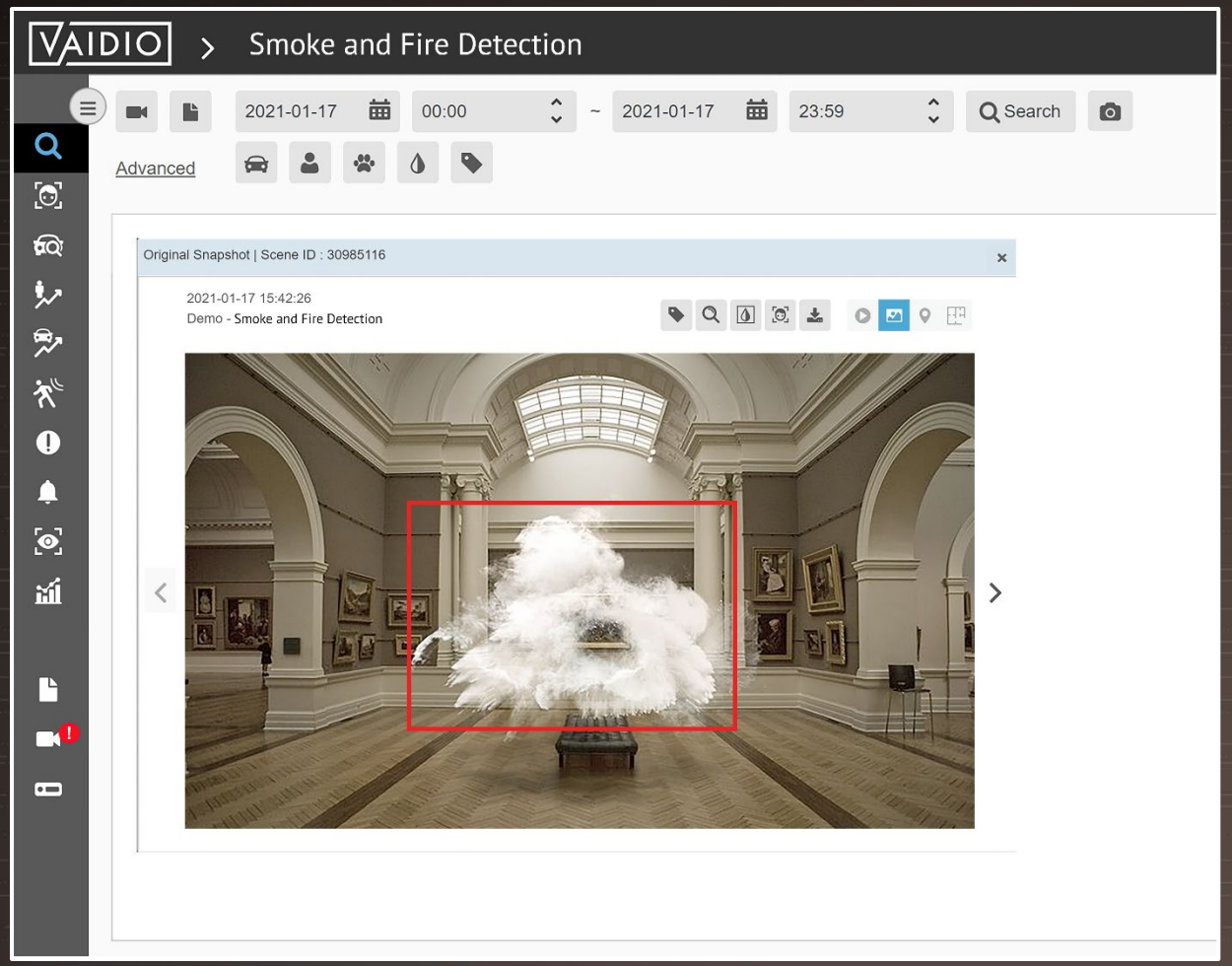
TRIGGER AN ALERT IF AN ABANDONED OBJECT REACH A CERTAIN (ABNORMAL) TIME THRESHOLD IN A SPECIFIED ZONE

INDENTIFY THE PERSON WHO LEFT THE OBJECT INSIDE THE MUSEUM OR ART GALLERY AND TRY TO LOCATE THIS PERSON AS QUICKLY AS POSSIBLE

NOTIFY SECURITY STAFF TO TAKE THE PROPER ACTION

VAIDIO™

SMOKE & FIRE DETECTION



MONITOR AND DETECT SMOKE & FIRE IN AND AROUND THE MUSEUM OR ART GALLERY IN REAL TIME

TRIGGER AN ALERT WHEN SMOKE OR FIRE APPEARS IN THE CAMERA FIELD OF VIEW AND PREVENT DAMAGES TO PROPERTY AND ASSETS TO A MINIMUM

INVESTIGATE VIA VIDEO SEARCH AND PROVIDE VISUAL EVIDENCE FOR INSURANCE COMPANIES

INTEGRATE VAIDIO WITH THE MUSEUM OR ART GALLERY FIRE PROTECTION SYSTEM

VAIDIO IS ABLE TO SEND OUT ALERTS TO THE FIRE BRIGADE

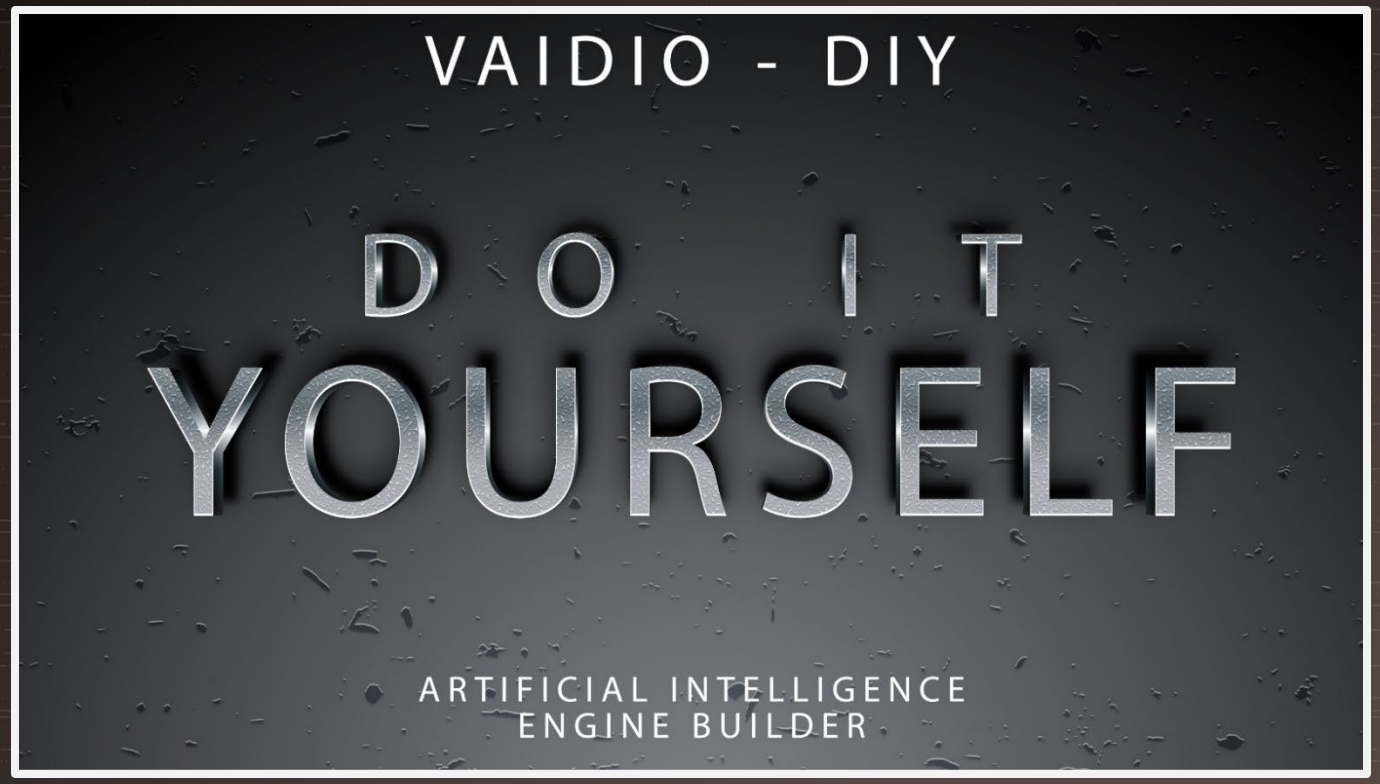
VAIDIO™

REFERENCE – MILET MUSEUM TURKEY

Tasks	Milet Museum AI - Use Case Description	Security	Safety	Experience	Operations
1	Loitering	Phase II	Phase II		
2	Running	Phase III	Phase III		
3	Border Breach - Fence, Restricted Area, Perimeter Monitoring, Vandalism	Phase I			
4	Assault/Fight	Phase III			
5	Queue Line - Wait Time			Phase III	
6	Social Distancing		Phase I		
7	Object Left Behind (boxes, backpack, suitcase, handbag)	Phase I			
8	Fire and Smoke Detection		Phase II		
9	Slip / Fall		Phase II		
10	Intrusion Detection	Phase I			
11	Environmental - water leak		Phase III		Phase III
12	Theft Detection	Phase I			
13	Temperature Detection				Phase I
14	Weapon Detection	Phase I	Phase I		
15	Access Control	Phase II			
16	Forensic Investigation	Phase I			
17	Heat Mapping				Phase I
18	Traffic Monitoring				Phase III
19	Visitor Behavior	Phase IV	Phase IV	Phase IV	Phase IV
20	Demand Forecasting			Phase IV	

VAIDIO™

VAIDIO TOOL KIT



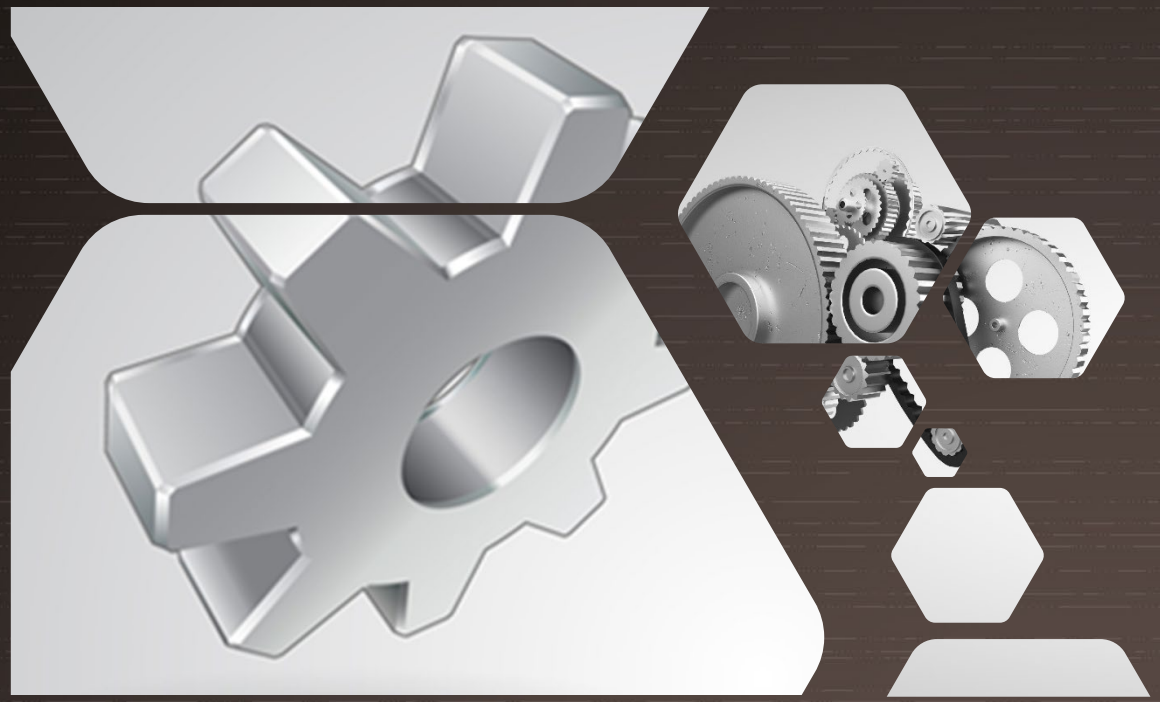
TRAIN YOUR OWN OBJECT DETECTION MODEL

INPUT: USER SELECTED FOOTAGE

OUTPUT: READY-TO-USE AI MODEL

VAIDIO™

VAIDIO TOOL KIT



ADVANTAGES

EASE-OF-USE
NO KNOWLEDGE REQUIRED AROUND NEURAL NETWORKS, AI LIBRARIES, ALGORITHMS AND DATASETS

VERSATILITY
TRAIN A MODEL FOR ANY OBJECT

INTERFACE
INTUITIVE GRAPHICAL USER INTERFACE

SECURITY
NO DATA SHARING TO 3rd-PARTY LABELLING SERVICES

CUSTOMIZATION
NO CUSTOMIZATION FEE FOR CUSTOMER SPECIFIC REQUESTS

VAIDIO™

USE CASE VAIDIO-DIY

CHALLENGE

DETECT ABANDONED OBJECTS LIKE BAGS, BACKPACKS AND SUITCASES IN A MUSEUM

SOLUTION

TRAIN YOUR OWN BAG DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- PROTECT MUSEUM VISITORS, STAFF, PROPERTY, ASSETS AND INFRASTRUCTURE
- PREVENT SEVERE ACCIDENTS AND INCIDENTS

MUSEUM – ABANDONED BAG

VAIDIO™

INTEGRATION CAPABILITIES

CAMERA INTEGRATION

CLOUD PLATFORM INTEGRATION

ERP INTEGRATION

IO DEVICE INTEGRATION

SOFTWARE SERVICES

VMS INTEGRATION

VAIDIO™

MUSEUMS & ART GALLERIES

VAIDIO BENEFITS & SAVINGS

VAIDIO AI-ENABLED VIDEO ANALYTICS HELP MAINTAIN THE SAFETY IN MUSEUMS & ART GALLERIES

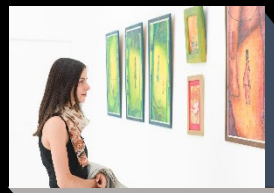
VAIDIO AI-ENABLED VIDEO ANALYTICS PROVIDES ACTIONABLE DATA TO ANALYZE & OPTIMIZE DECISION MAKING AROUND MUSEUMS AND ART GALLERIES INFRASTRUCTURE

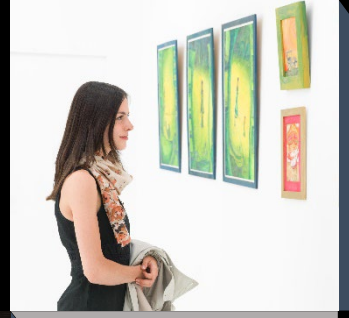
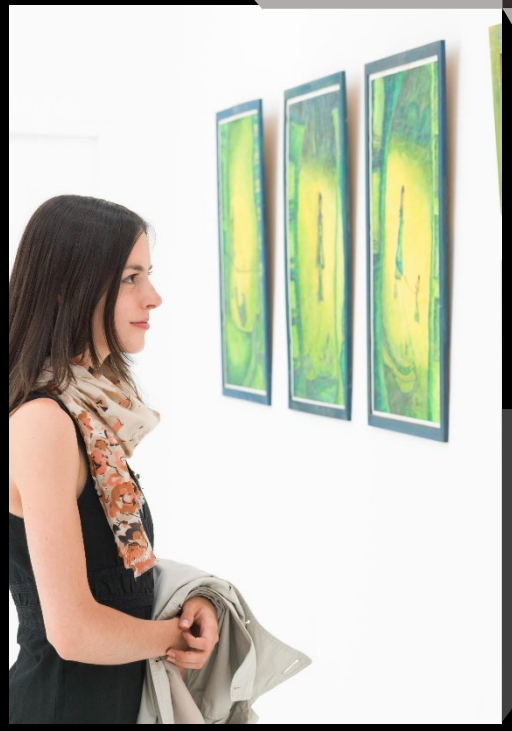
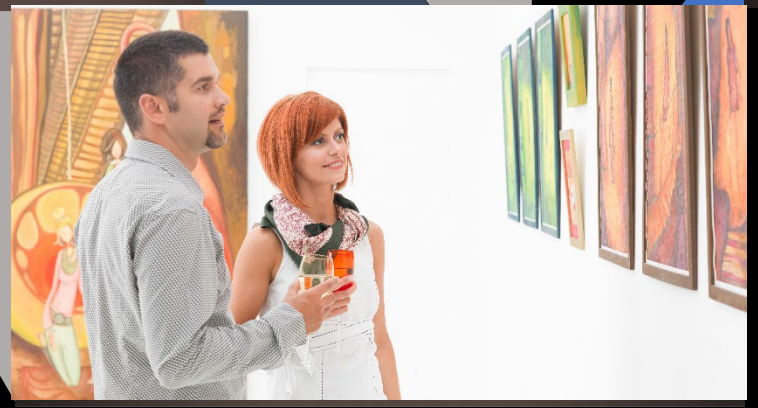
REVIEW HOURS OF VIDEO IN SECONDS – INCREASE IN PRODUCTIVITY OF THE MONITORING STAFF

REAL-TIME ALERTS AND PRO-ACTIVE FOLLOW UP CAN PREVENT EVENTS FROM HAPPENING – DAMAGE REDUCTION

VAIDIO AI-ENABLED VIDEO ANALYTICS WILL REDUCE THE NUMBER OF FALSE POSITIVES TO A MINIMUM – SAVE TIME AND RESOURCES FROM INVESTIGATING FALSE ALERTS

MONITOR TRAFFIC INFRASTRUCTURE FROM A CENTRAL LOCATION. PROVIDE REAL-TIME ALERTS TO GROUND OFFICERS VIA MOBILE DEVICES





WORKING TOGETHER ON THE ROAD TO A SAFER TOMORROW