WORLD'S LEADING AI ENGINE BUILDERS

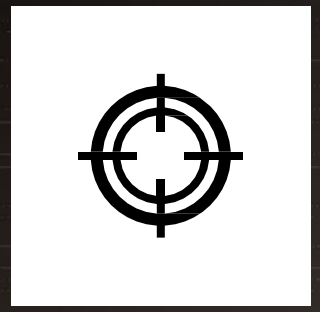
VAIDIO

AICUDA TECHNOLOGY & IRONYUN

ANALYTICS FOR A SAFER WORLD

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

FOOD MARKETS

STORE LAYOUT

Office

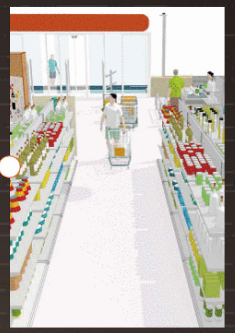
- Forensic video search
- Business analysis with counting statistics and heatmap

Checkout Counter

- Queue detection

Store Room

- Access control with face recognition
- Smoke and fire detection
- Intrusion Detection



Store Floor

- Regional People Counting
- Heatmap
- Advertising display VIP customers

Entrance

- People Counting
- Face recognition
- Loitering

Parking Lot

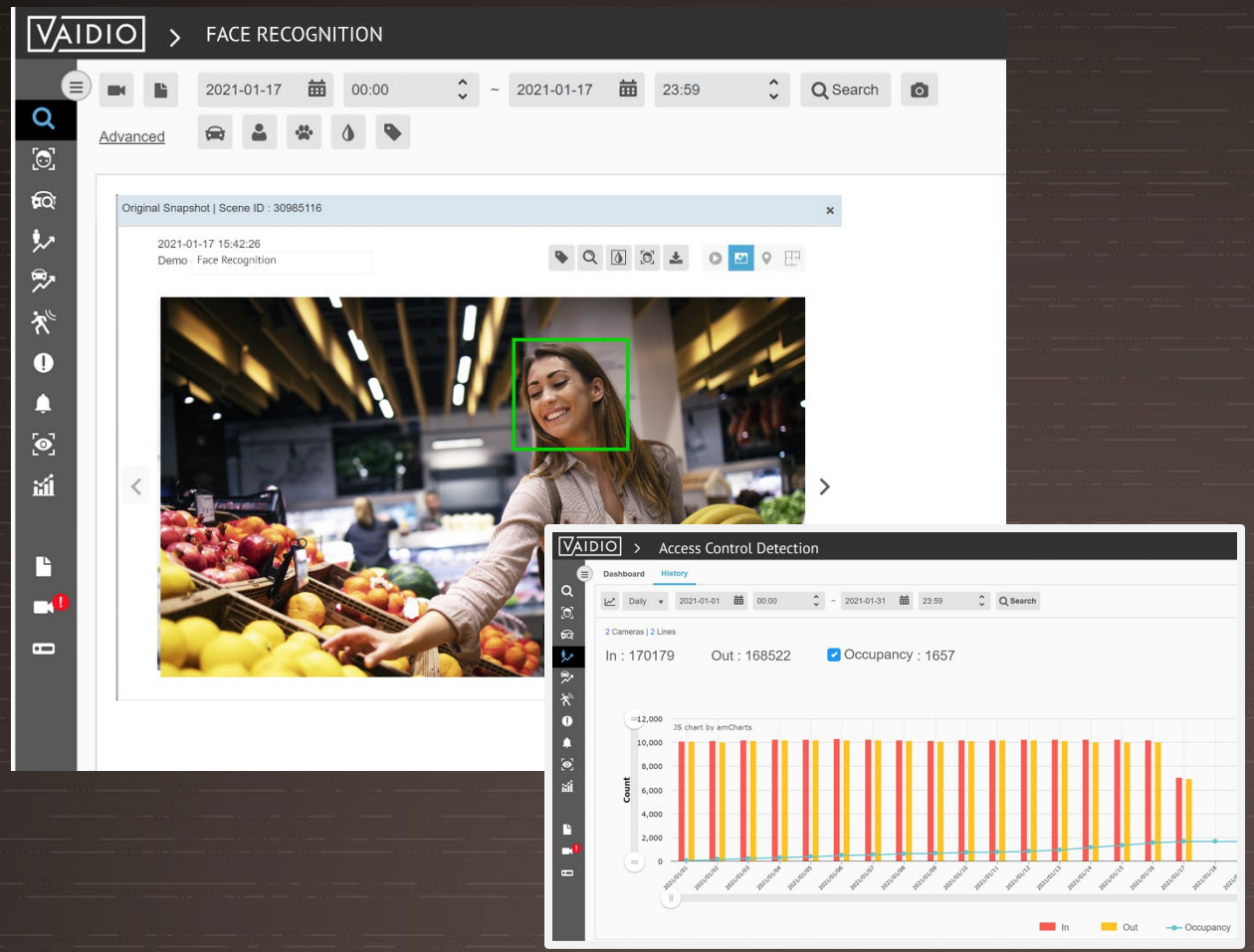
- Access control with LPR
- Whitelist for VIP customers, blacklist for shoplifters
- Loitering

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-BASED FACE RECOGNITION



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

ALERTS FOOD MARKET MANAGERS OR OWNERS FOR VIP SHOPPERS OR KNOWN SHOPLIFTERS

FIND MISSING CHILDREN IN A FOOD MARKET

ANALYZE PEOPLE MOVEMENT

GENERATE ACCESS CONTROL REPORTS BASED ON INCIDENTS

VAIDIO™

AI-BASED FACE RECOGNITION

BENEFITS

NO CONCERNS ABOUT BADGES THAT ARE LOST OR STOLEN AS BADGES ARE NO LONGER REQUIRED

FACE RECOGNITION ACCESS CONTROL PROVIDES ACCESS TO RESTRICTED AREAS IN REAL-TIME AND PREVENTS FRAUD

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

MANAGED FROM A PUBLIC, PRIVATE OR HYBRID CLOUD

EASIER TO MAINTAIN – REMOTE SYSTEM HEALTH MONITORING

VAIDIO™

AI-BASED QUEUE DETECTION

MONITOR AND DETECT QUEUES AT THE CHECKOUT COUNTER IN REAL TIME

TRIGGER AN ALERT WHEN QUEUES APPEARS IN THE CAMERA FIELD OF VIEW AND PREVENT QUEUES FROM HAPPENING

INTEGRATE VAIDIO WITH HRM SYSTEMS TO ALIGN EMPLOYEE RESOURCES

VAIDIO IS ABLE TO SEND OUT ALERTS TO THE FOOD MARKET MANAGER OR OWNER

VAIDIO™

AI-BASED QUEUE DETECTION

REDUCE NEGATIVE IN-STORE EXPERIENCE TO A MINIMUM VIA EARLY QUEUE DETECTION

SECURE AN EFFICIENT RESOURCE POOL OF EMPLOYEES

EASY INTEGRATION WITH THE HRM SYSTEM TO ALERT STAFF ABOUT QUEUES IN REAL-TIME

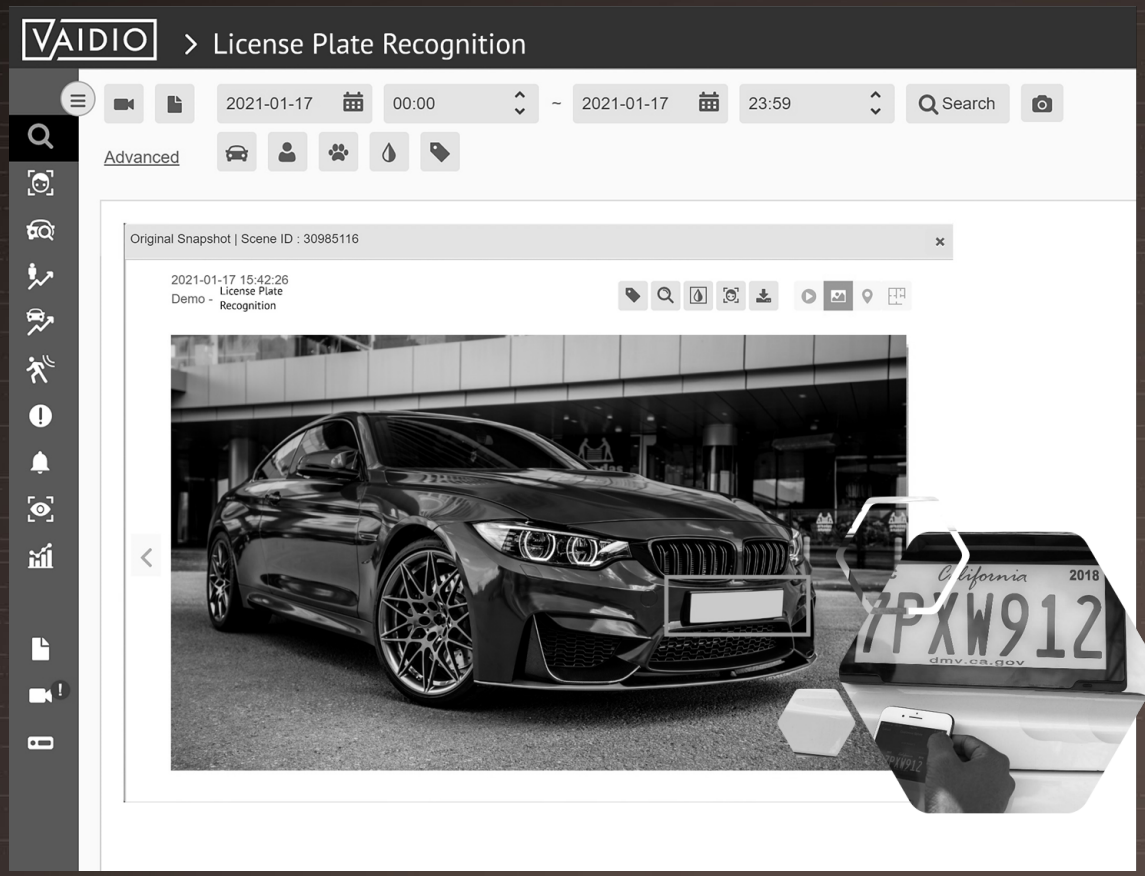
MANAGED FROM A PUBLIC, PRIVATE OR HYBRID CLOUD

EASIER TO MAINTAIN – REMOTE SYSTEM HEALTH MONITORING

BENEFITS

VAIDIO™

AI-BASED LICENSE PLATE RECOGNITION



REGISTER VEHICLE LICENSE PLATES FOR AUTOMATIC ENTRANCE CONTROL

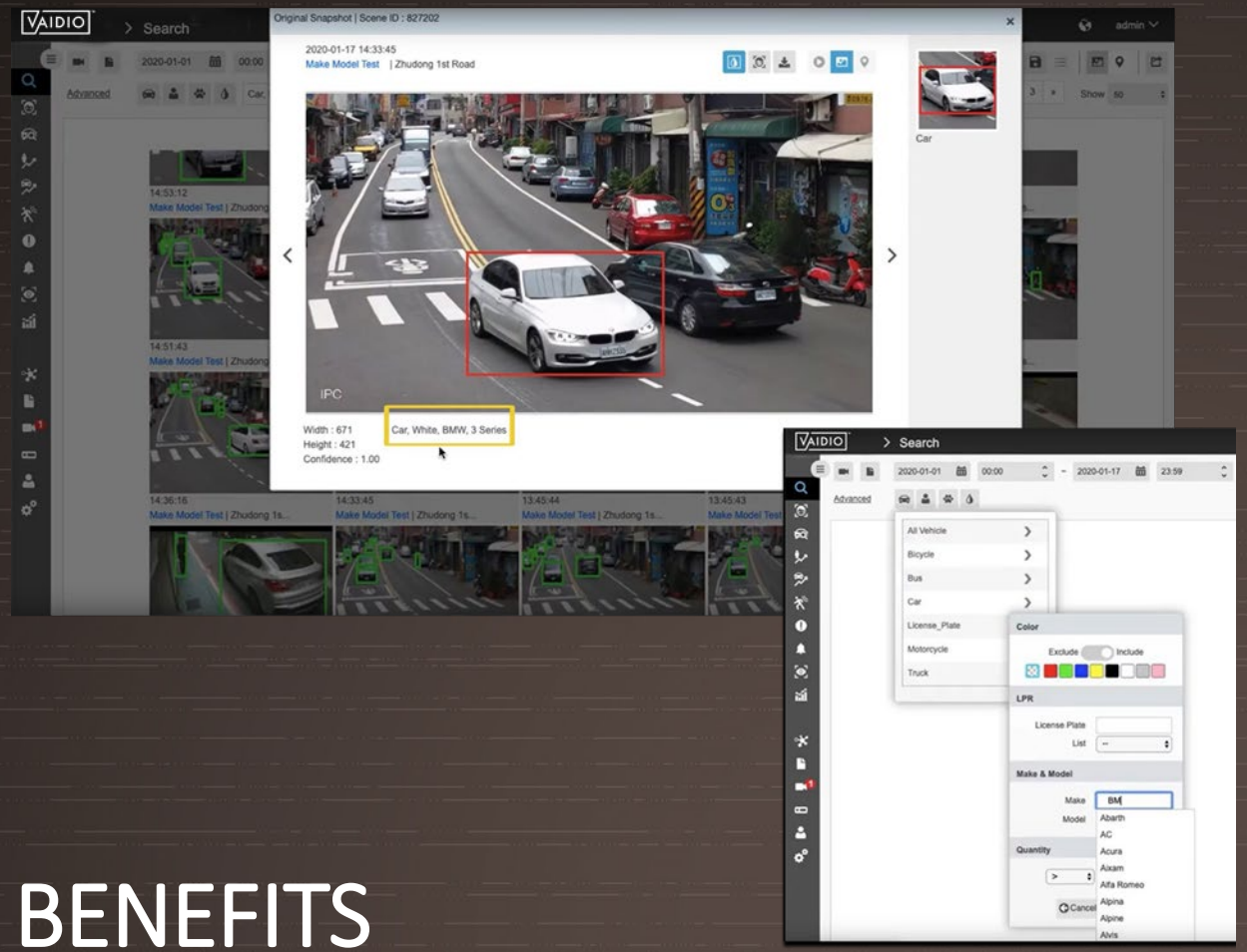
APPLY LICENSE PLATE RECOGNITION AND ENTRANCE CONTROL WITH WHITELIST FOR RESTRICTED PARKING AREAS FOR EMPLOYEES AND VIP CUSTOMERS

TRIGGER ALERTS FOR CARS THAT ARE ILLEGAL PARKED

GENERATE REPORTS BASED ON INCIDENTS

VAIDIO™

AI-BASED LICENSE PLATE RECOGNITION



PREVENT UNAUTHORIZED ENTRY OF THE PARKING AREA

EASY INTEGRATION WITH EXISTING HRM SYSTEMS FOR EMPLOYEE ACCESS TO THE PARKING AREA

TRACK CARS IN REAL-TIME BASED ON COLOR, MAKE AND MODEL

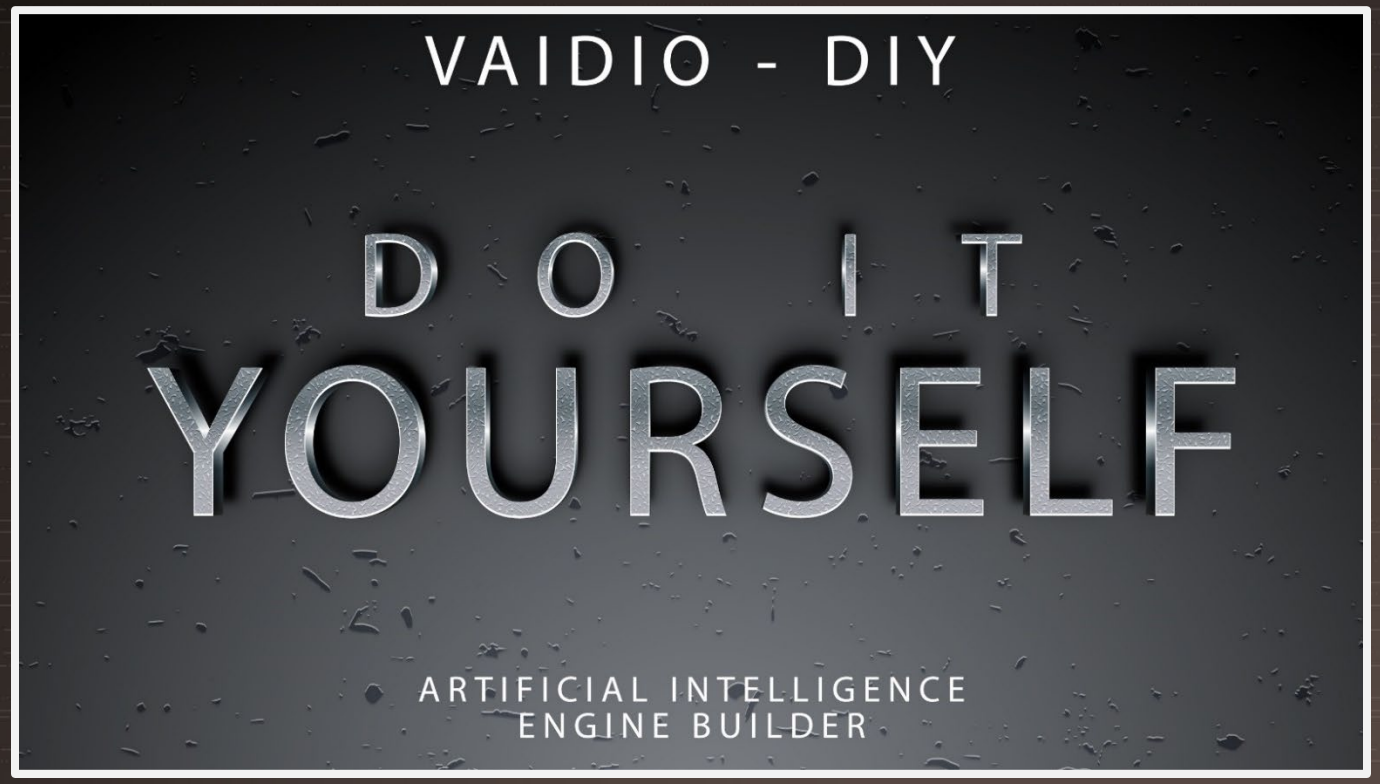
MANAGED FROM A PUBLIC, PRIVATE OR HYBRID CLOUD

EASIER TO MAINTAIN – REMOTE SYSTEM HEALTH MONITORING

BENEFITS

VAIDIO™

VAIDIO TOOL KIT



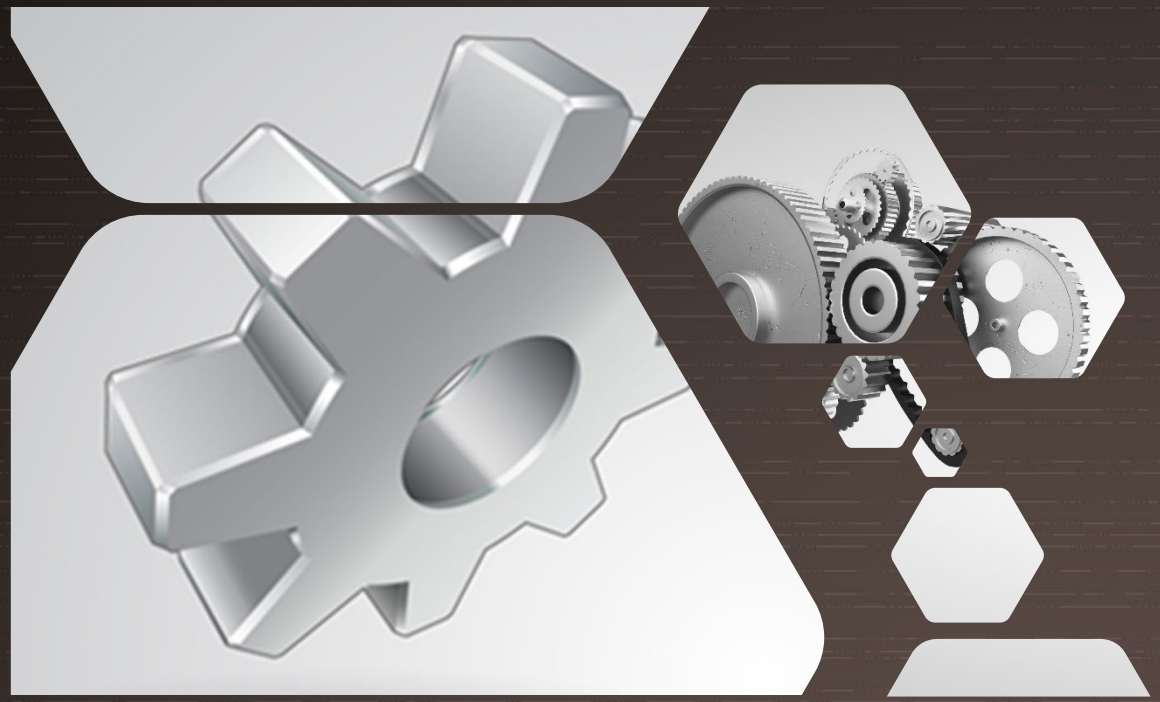
TRAIN YOUR OWN OBJECT DETECTION MODEL

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 1

CHALLENGE

DETECT PEOPLE THAT ARE TAKING SHOPPING CARTS OUTSIDE THE FOOD MARKET PERIMETER

SOLUTION

TRAIN YOUR OWN SHOPPING CARTS DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- PROTECT FOOD MARKET PROPERTIES
- PREVENT MISSING SHOPPING CARTS

FOOD MARKET

VAIDIO™

USE CASE 2

CHALLENGE

DETECT IF THERE ARE STILL ENOUGH SHOPPING CARTS AVAILABLE FOR SHOPPERS

SOLUTION

TRAIN YOUR OWN SHOPPING CARTS DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- GUARANTEE SHOPPING CARTS AVAILABILITY FOR SHOPPERS

FOOD MARKET

VAIDIO™

USE CASE 3

CHALLENGE

DETECT FRUITS AND VEGETABLES WITH IMPERFECTIONS

SOLUTION

TRAIN YOUR OWN FRUITS AND VEGETABLES IMPERFECTION DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- GUARANTEE THE QUALITY OF THE FRUITS AND VEGETABLES FOR SHOPPERS

FOOD MARKET

VAIDIO™

INTEGRATION CAPABILITIES

CAMERA INTEGRATION

CLOUD PLATFORM INTEGRATION

ERP INTEGRATION

IO DEVICE INTEGRATION

SOFTWARE SERVICES

VMS INTEGRATION

VAIDIO™

FOOD MARKETS

VAIDIO BENEFITS & SAVINGS

VAIDIO AI-ENABLED VIDEO ANALYTICS HELP MAINTAIN THE SAFETY IN FOOD MARKETS AND GIVE EMPLOYEES PIECE OF MIND

VAIDIO AI-ENABLED VIDEO ANALYTICS PROVIDES ACTIONABLE DATA TO ANALYZE & OPTIMIZE DECISION MAKING AROUND THE FOOD MARKETS INFRASTRUCTURE

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

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

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

MONITOR MULTIPLE FOOD MARKET SITES FROM A CENTRAL LOCATION. PROVIDE REAL-TIME ALERTS TO ON-SITE SECURITY STAFF VIA MOBILE DEVICES

WORKING TOGETHER ON THE ROAD TO A SAFER TOMORROW