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Computer Vision Platform

Ipsotek VISuite

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EVIDEN

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VISuite Value

ROADMAP . PROJECTS . RESILIANCE . INTEGRATION

Live Alarms

Investigation

VISUITE

Dashboards

Integrations

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Eviden Computer Vision Platform

The highly scalable end–to-end computer vision platform

CV Labs
Worldwide experts labs

- Data science, data engineering, data Ops
- Expert deployment and configuration services
- Consulting
- Managed services

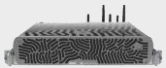
Software
Ipsotek VISuite

- Pre-trained AIVA detection, classification, and tracking engine
- Flexible rule engine with 80+ templates
- Real-time alerts
- Custom dashboards
- Post event search and tracking
- Detailed API and third-party integrations

Computer Vision Labs

- Eviden custom-built AI models
- Partner custom AI models

Hardware
Product and Services

BullSequana ES	BullSequana Edge	BullSequana EX	BullSequana SA20G	BullSequana X451
Plug-and-play analytics in a compact and ruggedized server	AI inference outside the data center	Envison trusted AI from edge to cloud	AI inference and training in the data center at the edge	High performance computing for AI training and inference
				
(Jetson)	(A2)	(A16)	(A16)	(A16)

aws · Google Cloud · vmware · Azure · ...

Partner Hardware/ Cloud Infrastructure

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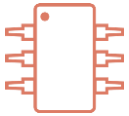
NVIDIA

ADVANCED VIDEO ANALYTICS



25 Years Research, Development and Experience

Mega Project Experience
8,000+ Streams

750+ Projects
44 Countries

140+ Airport Projects

50+ Nuclear, Oil & Gas, and Energy Sites

160+ Government, CPNI, and Smart City Projects

110+ Retail projects

Ipsotek Experience

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Value Proposition

Security **Operations** **Health and Safety** **Business Intelligence**

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VISuite V11 – AIVA Engine

Artificial Intelligence

Automatic Calibration

Accurate Tracking in Crowded Areas

High-Fidelity Object Recognition & Classification

Model Accuracy Continuously Improving

Accuracy

Video Analytics

Real-time, High Framerate

GIS Calibration and Object Tracking

Reduced Server Loading

Efficiency

AIVA

- AI triggered by VA only when needed
- Reduces server overhead without compromising accuracy
- 100 4CIF or 60 HD streams analyzed per Nvidia A16 GPU

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Ipsotek at the Forefront of the AI Revolution

AI technology offers many advantages. Ipsotek has successfully deployed this in its Video Analytics by:

- Offering higher detection accuracy and lower false alarms. Typical example showed reduction of false alarms by 40x once AI is introduced
- Ease of deployment by using AI for automatic scene segmentation and calibration
- New capabilities in detecting social distancing and face mask to target COVID mitigation projects
- High quality reports for management to take decisive actions
- Detection of people and vehicles even in highly crowded and congested scenes leading
- Effective crowd and traffic management
- Tracking of people in crowded areas allowing multi camera tracking and investigatio

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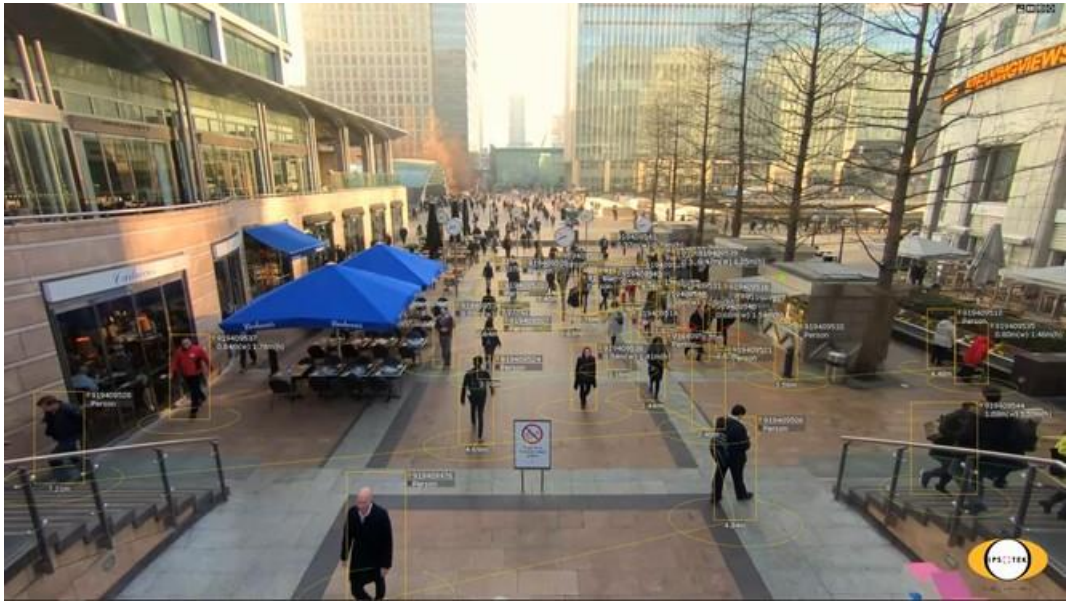
AIVA – Metadata



Object ID	11578
Object Type	Person
Camera No	0134
Latitude	51.42062
Longitude	-0.20895
Time	1614256855
Velocity	1.3
Direction	56
Associated Objects	Backpack
Upper Body Colour	Red
Lower Body Colour	Black

Object ID	11685
Object Type	Van
Camera No	0083
Latitude	51.42032
Longitude	-0.20925
Time	1614256985
Velocity	6.7
Direction	234
Associated Objects	--
Object Colour	Red

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Pretrained AI Models

Model	Classes	Description
General Detector	28	Main detector of primary classes including people, vehicles, weapons etc
Human Attributes	30	Human Attributes including gender, age, clothing type, colour and PPE
Reidentification	N/A	128 dimensional vector providing unique identifier
Density	1	Head detector for extremely crowded spaces
Thermal Detector	4	Thermal spectrum detector in low crowded spaces
Face Detection	1	Face detector
Face Identification	N/A	128 dimensional vector providing unique identifier
Face Attributes	8	Emotion, age and gender estimation
Scene Segmentation	18	Road, Pavement, Platform, Track etc…
Skeleton Detector	15	Human skeleton estimation model
LPR	N/A	License Plate Recognition – supporting majority of countries in the world

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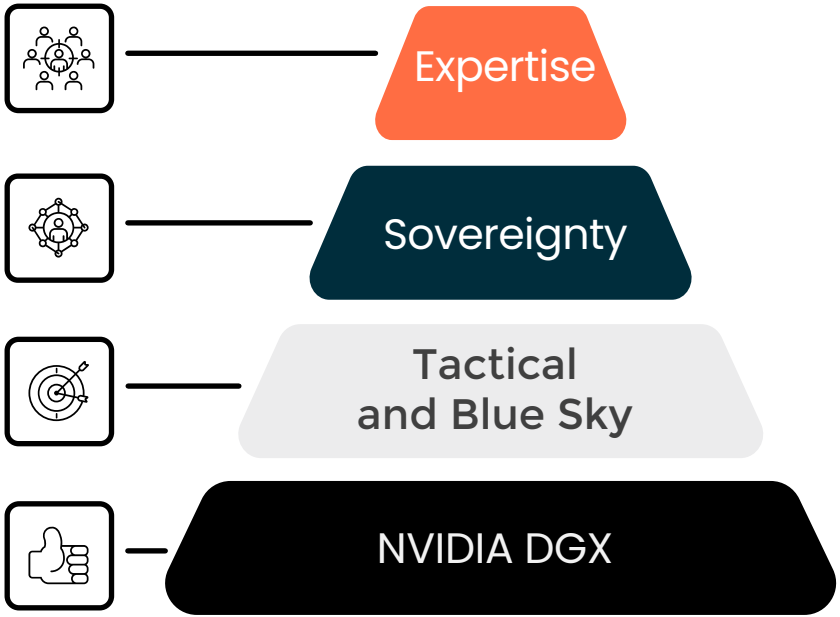
Computer Vision Labs

Experts in bespoke AI/ML solutions



Expertise

More than 100 years of combined experience in machine learning and Artificial Intelligence applied to a variety of computer vision applications.

Sovereignty

Eviden CV Labs are located in five continents with labs in US, Brazil, France, UK, Middle East and Singapore. Providing local, agile and effective support to our customers.

Tactical and Blue Sky

Eviden CV Labs are engaged in bespoke project delivery developments while maintaining a clear Blue Sky innovation vision.

NVIDIA DGX

Eviden CV Labs take full advantage of NVIDIA's DGX platform for data pre-processing, model training and validation.

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PRIVACY – GDPR – AI ACT

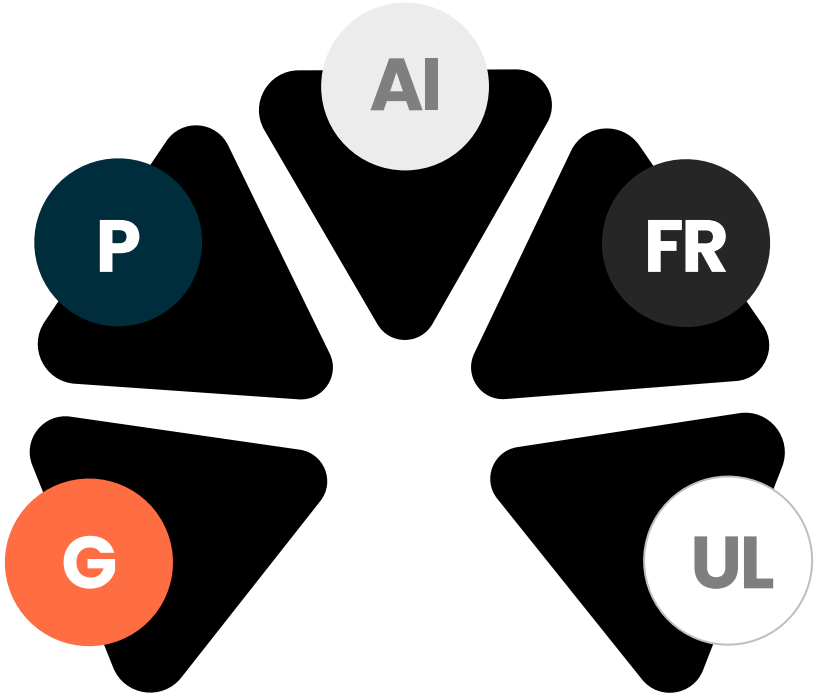
Make AI safe and transparent

PRIVACY

Face blurring
Body Blurring
Vehicle Blurring

GDPR

Customizable Retention Policy and Clear Rules for Media Storage



AI Act

Transparent and explainable AI, trained by Humans

Face Recognition

Deploy VISuite with or without Face Recognition capability

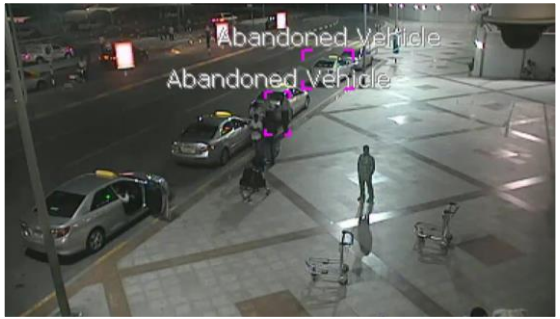
Unsupervised Learning

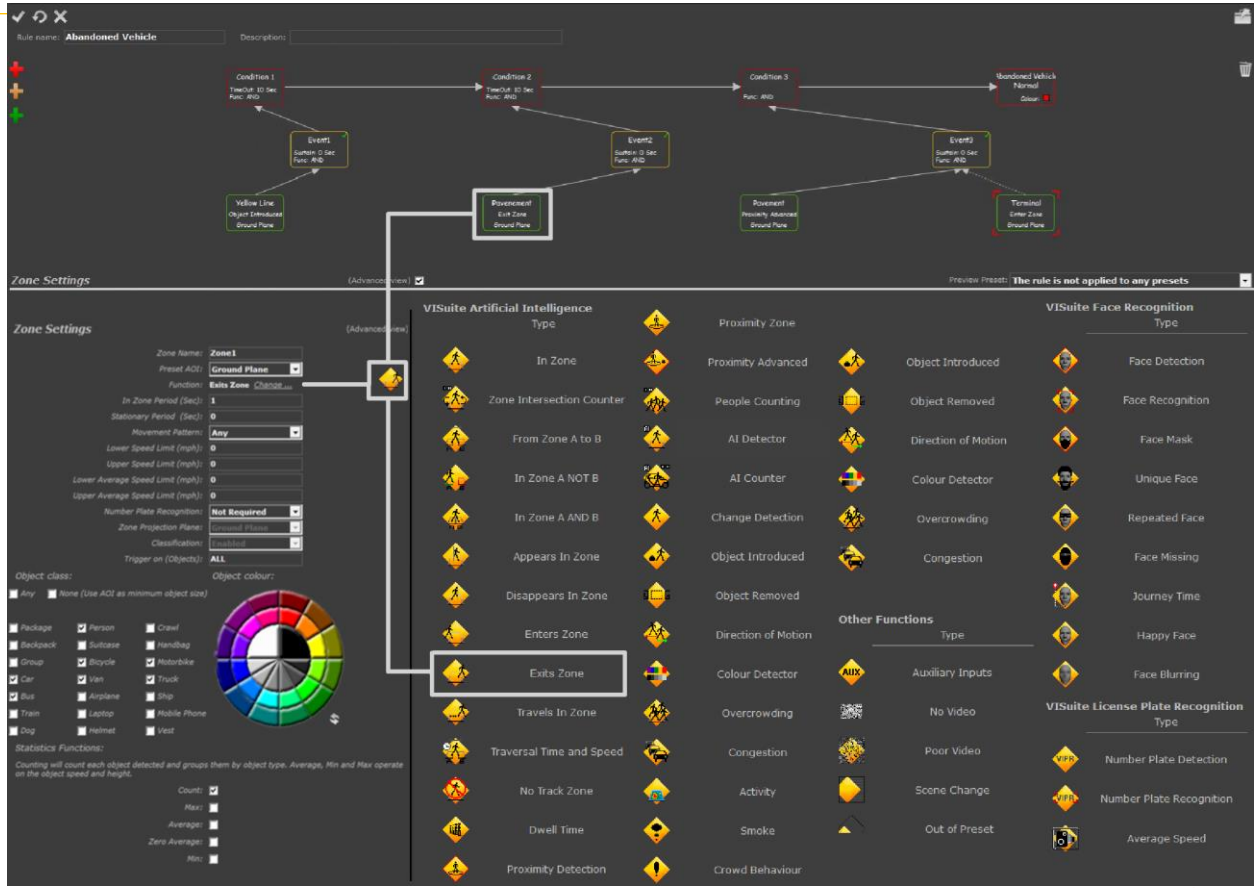
Avoid unsupervised learning to stop models from drifting and aging

© Eviden SAS

Patented Scenario-Based Detection

- Configuration Interface for VISuite
- Select from 65+ Modules
- Each Module Individually Configured
- Combine Using IF/AND/OR/NOT Logic
- Full Rule Can Be Exported As Template
- 80+ Proven Templates Available
- Up to 32 Rules on 1 Camera





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Energy and Utilities

External Asset Protection

Perimeter Protection
PTZ Tracking
Vehicle Intrusion/Illegal Parking
Intrusion Detection
Loitering Detection

Secure Buildings

Intrusion Detection
Perimeter Protection
Forensics & Investigation

Data rooms

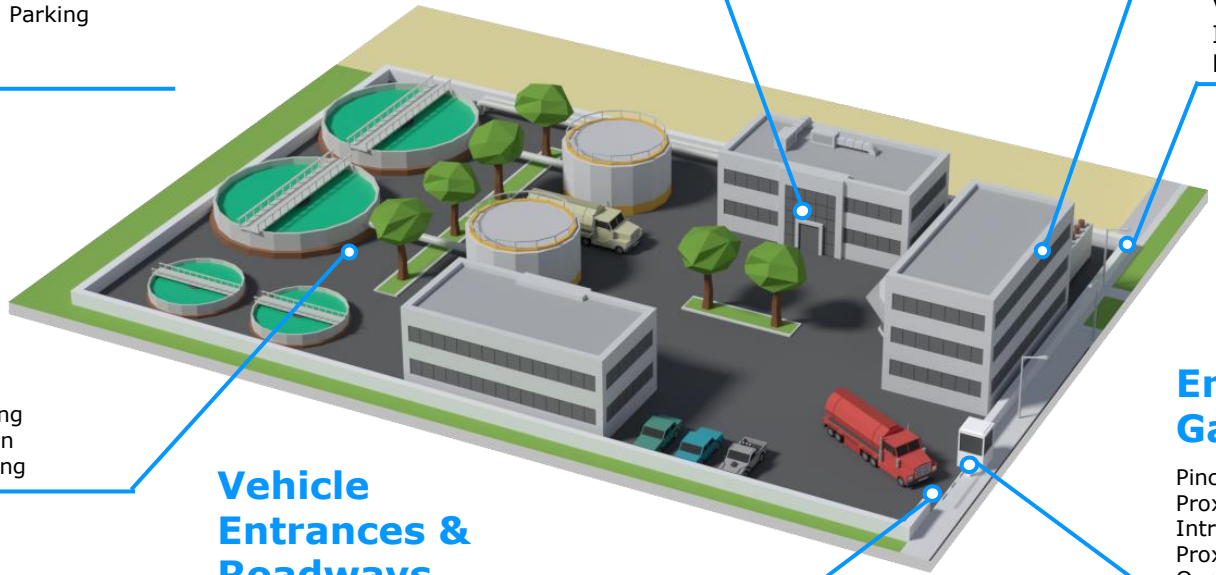
Face Recognition Watchlist
Tailgating Detection
Intrusion Detection
Smoke Detection

Perimeter

Perimeter Protection
PTZ Tracking
Vehicle Intrusion/Illegal Parking
Intrusion Detection
Loitering Detection

Asset & Site Monitoring

Forensic Search
Out of Hours Intrusion
PPE Detection
Slip & Fall Detection
Smoke Detection
Live GIS Location Tracking
Person Running Detection
Vehicle Intrusion/Speeding



Vehicle Entrances & Roadways

ANPR Watchlist
Vehicle Intrusion
Wrong-way Detection
Face Recognition
Abandoned Vehicle Detection

Entrances & Gatehouses

Pinch-Point People Counting
Proximity Detection
Intrusion Detection Out-of-hours
Proximity Monitoring
Queue Monitoring

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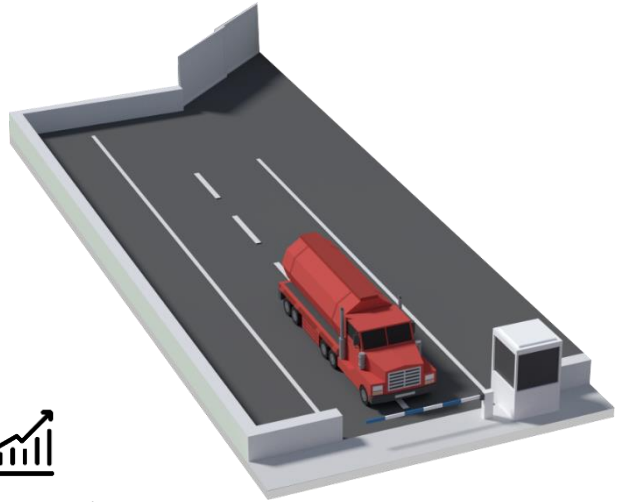
Perimeter Protection

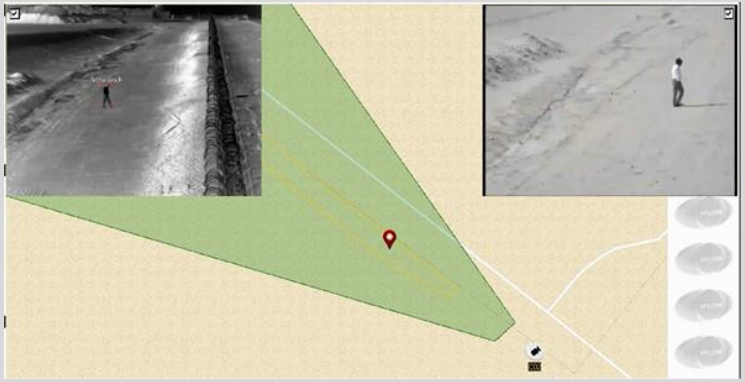
Protecting an energy or utility site's perimeter and restricted zones is key to ensuring the smooth running of all operational areas. Any intrusion attempt to these critical infrastructures could represent a threat to business operations and to the safety of personnel.

VISuite work seamlessly with video, thermal and IR surveillance CCTV cameras at ranges of up to 1km and provides real-time alerts for perimeter and intrusion breaches.



Improve Security Response Time

Reduce Operator Workload



Automating Perimeter and Intrusion Monitoring

One of the standard functions in VISuite is the automatic control of PTZ cameras when an alert is generated on an associated fixed camera. This allows wide areas to be monitored reliably without manual intervention.

VISuite provides visual, metadata and PTZ camera data when an intrusion is detected, which is fed to the control room for operators to manage.

When an operator takes control of a PTZ camera joystick, VISuite automatically relinquishes control.

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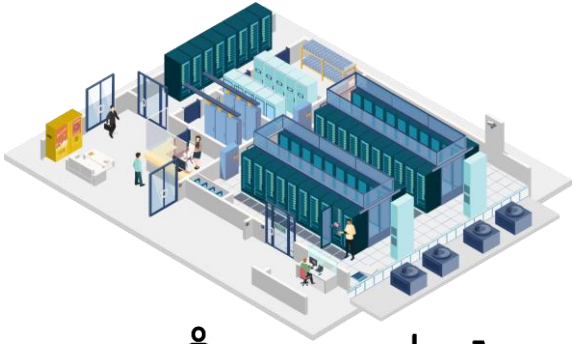
Secure Buildings

The risk and impact of hostile intrusion is high not only at critical sites, but also at secure offices and datacenters which enable safe energy and utility operation. With many high-profile cyber breaches and several initiated from physical access to unsecured offices and substations, operators must take action to protect critical company assets.

Ipsotek's Scenario Based Rule Engine allows the user to create customizable solutions that can be rapidly deployed to multiple cameras. Key buildings are protected through various behavioral-detection capabilities, Face Recognition and instant alarms which alert security staff of incidents.



Improve Health & Safety Compliance

Reduce Operating Costs

Improve Staff Productivity

Improve Operations

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Physically Securing CNI Operations

Malicious individuals, organizations, and nation states all seek to benefit from exploiting physical and network-based weaknesses in CNI infrastructures.

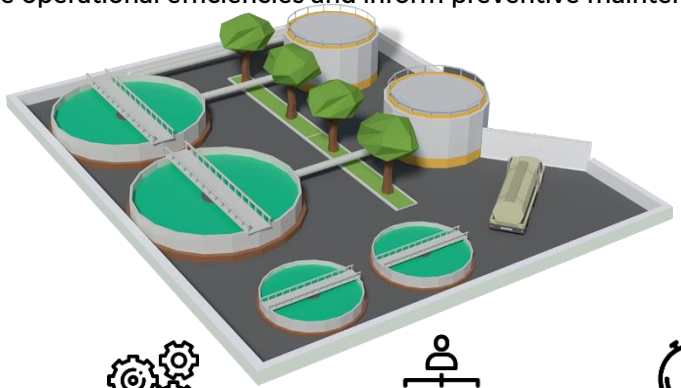
VISuite can monitor key entrances and hazardous areas to verify the identity of personnel and ensuring that the person is cleared, and that security is aware of any unknown persons. Using Unique Face Detection, potentially hostile individuals can be spotted and prevented from learning and exploiting the site even where watchlists are not used.

It also means that alarms can be raised when authorized staff attempt to access the site when they are not required or in an area which is restricted. As soon as an alarm is raised, control room staff can inform relevant security teams to investigate the situation.

Asset Protection

The challenges faced by operators at solar farms, wind farms, power plants, gas terminals and substations, sewage treatment plants and other utility sites will vary greatly. Each site poses its own challenges and face potential threats.

Ipsotek VISuite can be deployed rapidly at each site and connected centrally, allowing easy management and monitoring of these systems. Due to the flexibility of Ipsotek VISuite, the same software can be used for many use cases depending on the area including health and safety lapses such as missing PPE or people entering dangerous areas. VISuite can also help collect data from on site usage and events which would normally be lost, helping to drive operational efficiencies and inform preventive maintenance regimes.



Avoid Incidents

Avoid periods of downtime

Reduce Operating Costs

Improve Security Response Time

Keeping Workers Safe

Operational health and safety is a key challenge at all energy and utility sites. While near misses and accidents should be logged, this information is not real-time and combining this information to improve OHSE can be a challenge.

Ipsotek's AIVA system can help monitor violations automatically including PPE detection, slip and fall detection, detecting people getting close to heavy machinery, and other custom detections.

VISuite can generate intuitive reports which help to track and monitor trends and improve health and safety over time. The software can also send alerts to VMS/PSIM systems on site or trigger an alarm, light, or similar direct feedback.

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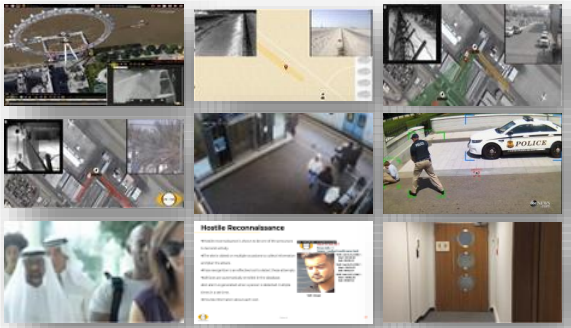
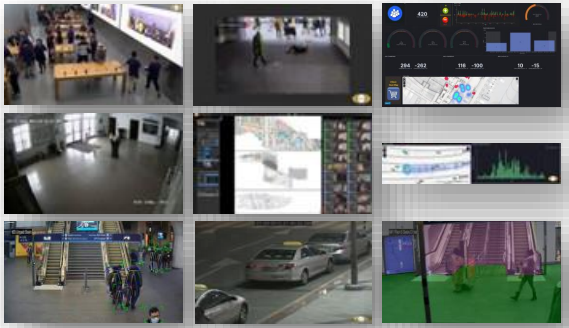
Proven Solutions

SECURITY



BUSINESS INTELLIGENCE

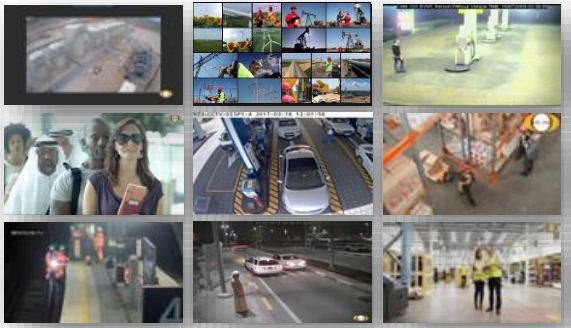


INVESTIGATION&FORENSICS

TRAFFIC MANAGEMENT

CROWD MANAGEMENT

OPERATIONS MANAGEMENT



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Benefits of Video Analytics

VISuite extracts metadata from RTSP video streams allowing you to improve response times, drive operational efficiencies, and generate new revenue streams. This intelligent capability produces alarms for specific behaviors and events, allows operators to perform forensic searches and generates dynamic dashboards.

Improve Operations Management & Site Automation

- Understand site use to optimize site visits and activity.
- Get automated alerts for events such as intrusion attempts and other risks.

Monitor Health and Safety

- Detect critical events like smoke with existing cameras, allowing you to respond faster.
- Monitor for slips and falls, missing PPE and other health and safety risks.

Reduce Security Risks

- Deploy primary perimeter protection integrated with the ARC , reducing the cost to monitor and secure each site
- Integrate Face Recognition access control to monitor who is on site.
- Search to track across cameras through appearance or face.

Reduce Control Room Overhead in Emergencies

- Detect and track intruders with real-time GIS coordinates and PTZ tracking on existing or new cameras.
- Enable security to resolve the issue faster and reduce overhead.

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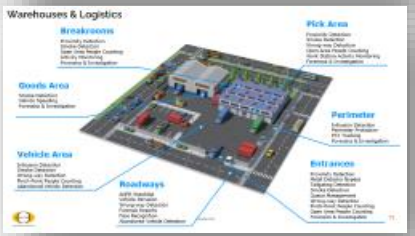
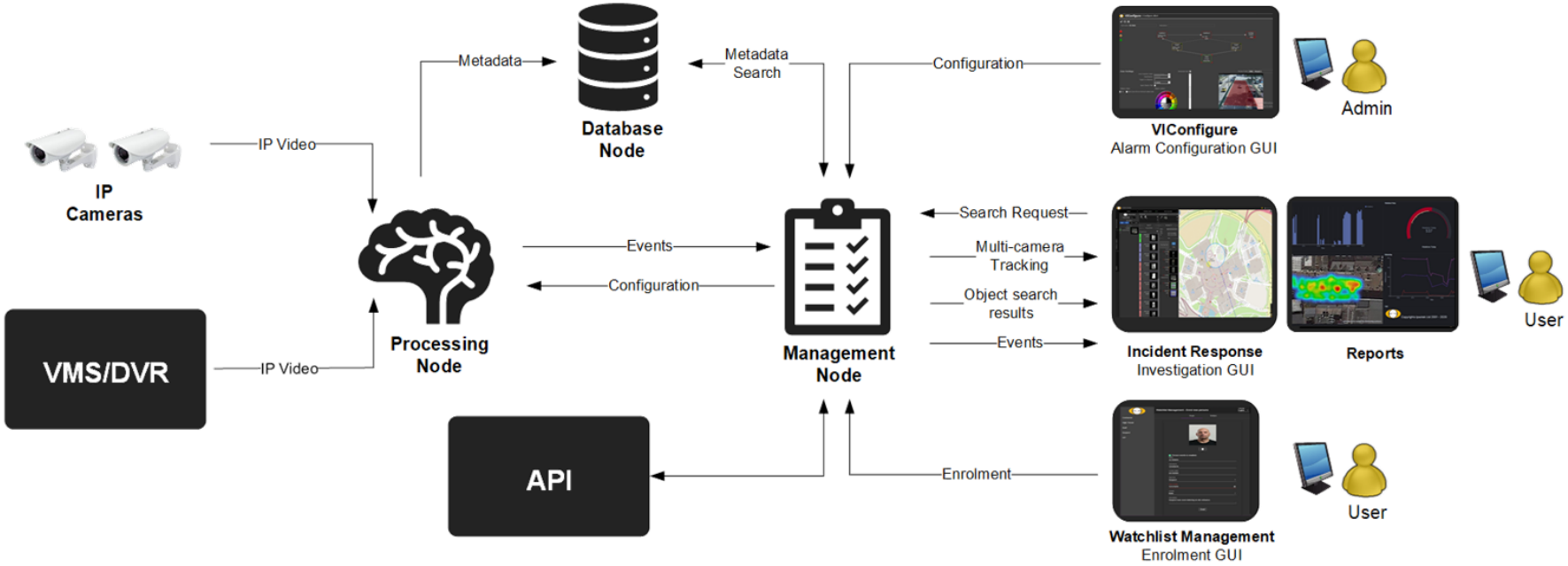
Solution Verticals



Scalable Architecture



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Ecosystem Technology Partners

Video Management Systems (VMS)

Physical Security Information Management (PSIM)

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Software License Model

Open, flexible and One license per camera.

VISuite Investigation	MULTI CAMERA TRACKING - TAG AND TRACK		
VISuite Forensics	APPEARANCE, FACE and LICENSEPLATE SEARCH		
	VISuite AI	**VISuite FR**	**VISuite LPR**
	ARTIFICIAL INTELLIGENCE	FACE RECOGNITION	LICENSE PLATE RECOGNITION
	AI BASED CLASSIFIER	WATCHLIST	WATCHLIST
	AI BASED TRACKING	HOSTILE RECONNAISSANCE	HOSTILE RECONNAISSANCE
	AI BASED PEOPLE COUNTER	JOURNEY TIME MEASUREMENT	AVERAGE SPEED
	UP TO 32 RULES PER CAMERA	MULTI FACTOR AUTHENTICATION	MULTI FACTOR AUTHENTICATION
	GEO TAGGING	ID SEARCH	VIOLATIONS EVIDANCE PACK
	LIVE ALARMS	AUGMENTED REALITY	AUGMENTED REALITY
	STATISTICS REPORTS	DEMOGRAPHICS REPORTS	TRAFFIC REPORTS

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Thank you!

Scan QR code for Business Card

Airport

Airfield

Intrusion Detection
CP Line Violations
PPE Monitoring

Fuel Farm

Critical Area Intrusion
PTZ Tracking
Vehicle Entry Watchlist

Arrivals

Anti-Backtrack
Passenger Counting
Forensic Search
Multi-Camera Tracking

Rail Links

Platform Monitoring
Track Intrusion
(See Rail Bundle)

Perimeter Fence

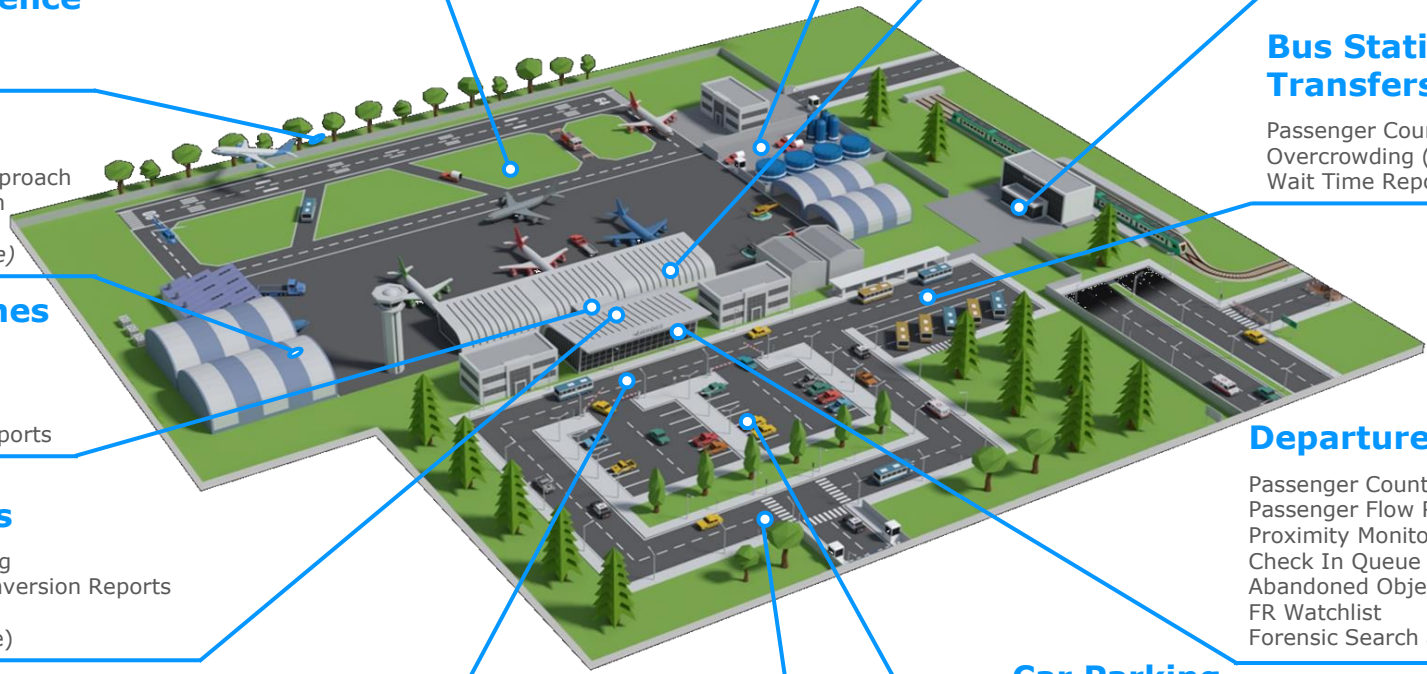
Intrusion Detection
PTZ Tracking

Bus Station & Transfers

Passenger Counting Reports
Overcrowding (Dispatch Bus)
Wait Time Reports

Cargo

High Value Cargo Approach
Congestion Detection
Access Control
(See Logistics Bundle)



Security Lanes

Queue Monitoring
Lane Bypass
Face Recognition
Time in Security Reports

Departures

Passenger Counting
Passenger Flow Reports & Heatmaps
Proximity Monitoring
Check In Queue Monitoring
Abandoned Object Detection
FR Watchlist
Forensic Search and Tracking

Retail Units

Customer Counting
Passing Trade Conversion Reports
Heatmaps
(See Retail Bundle)

Car Parking

Vehicle Counting
ANPR Vehicle Time in Parking
ANPR Watchlist
Bay Occupancy Estimate
Vehicle Blocking Road
Smoke/Fire Detection

Vehicle Forecourt

Double/Illegal Parking
Vehicle Counting Reports
Vehicle Overspeed
ANPR Vehicle Overstay
Abandoned Vehicle

Road Network

Vehicle Intrusion
Congestion Detection
Stopping on Restricted Route
Person in Roadway
ANPR Time in Area

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Datacentres

Server Rooms

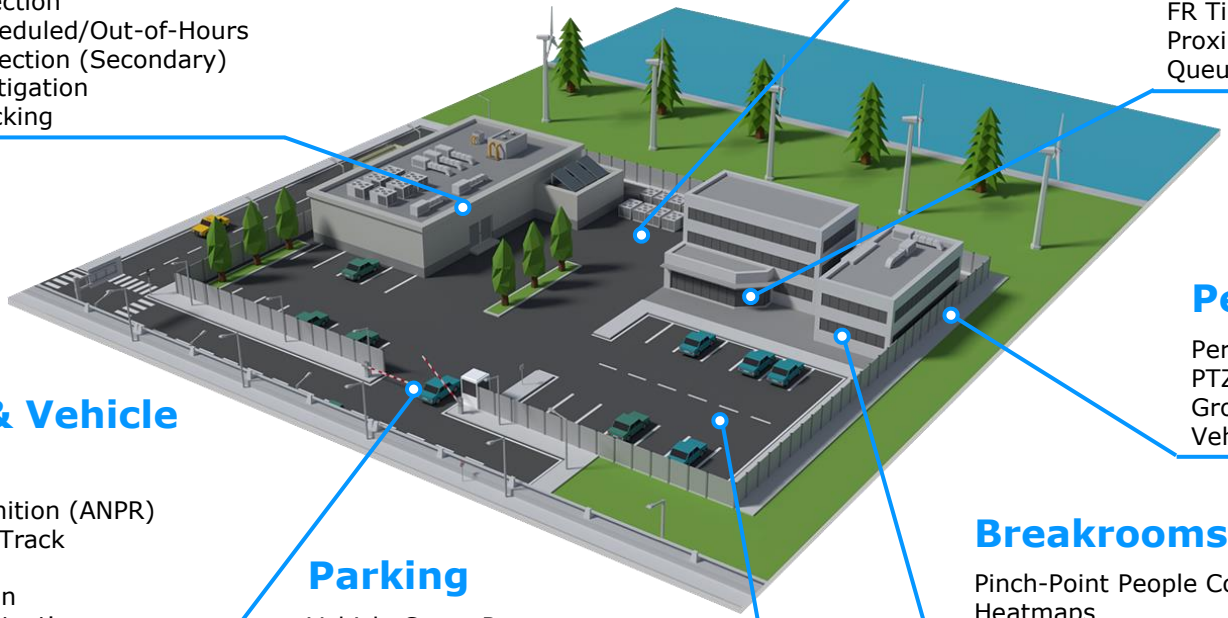
Face Recognition Watchlist
FR/Access Control 2FA
Tailgating Detection
Lone Worker Detection
Intrusion – Unscheduled/Out-of-Hours
Visual Smoke Detection (Secondary)
Forensics & Investigation
Multi-camera Tracking

Secure Areas

Intrusion Detection
Area Usage Reports
Forensics & Investigation

Entrances

Pinch-Point People Counting
Intrusion Out-of-Hours
Forensic Search
Face Recognition (FR) Watchlist
FR Multi-Camera Tracking
FR Time in Area
Proximity Monitoring
Queue Monitoring



Perimeter

Perimeter Protection
PTZ Tracking
Group/Individual Loitering
Vehicle on Perimeter

Roadways & Vehicle Gates

License Plate Recognition (ANPR)
ANPR Multi-Camera Track
Vehicle Intrusion
Wrong-way Detection
Vehicle Speeding Detection
Abandoned Vehicle Detection

Parking

Vehicle Count Reports
Current Parking Occupancy
Vehicle Speeding
Vehicle Overstay
Illegal Parking Location
(Entrance/Footpath/Crossing Blocked)

Breakrooms

Pinch-Point People Counting
Heatmaps
Queue Management
Dwell Time
Intrusion Out-of-Hours

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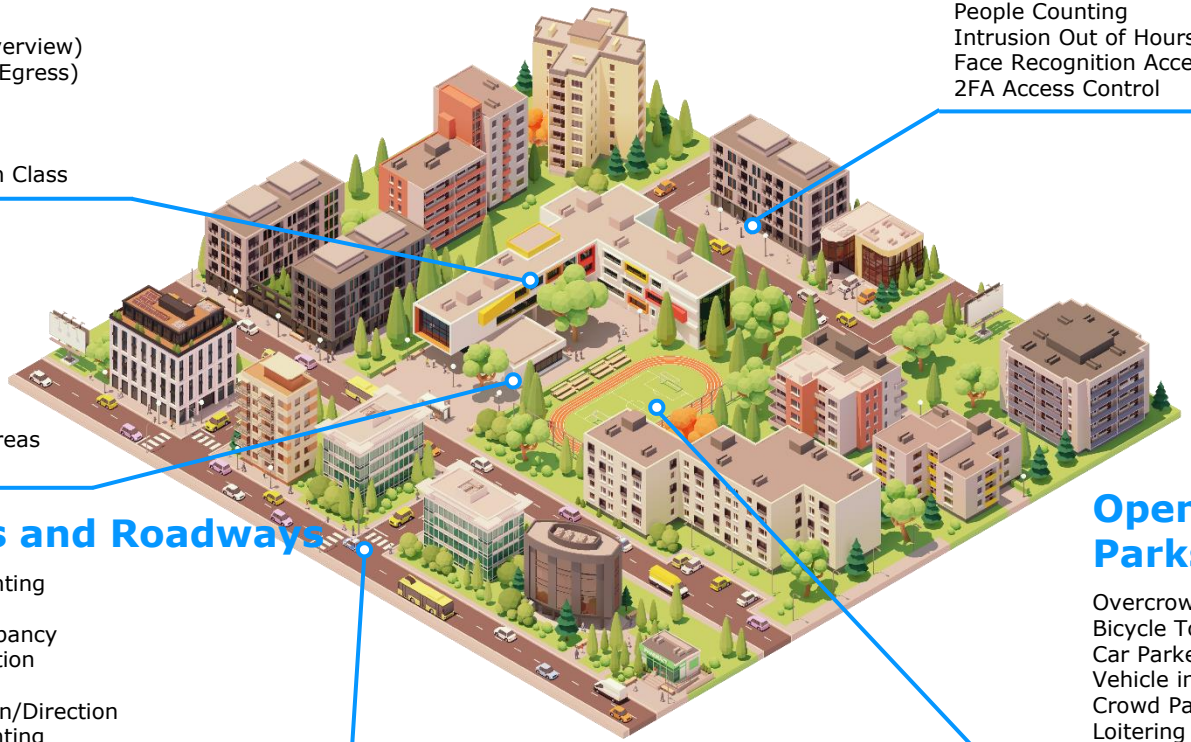
Education

Lecture Halls and Classrooms

Current Hall Occupancy (Overview)
Student Counting (Ingress/Egress)
Abandoned Bag Detection
Bicycle in Hallway
Visual Smoke Detection
Student Attendance/Time in Class

Access Restricted Entrances

Tailgating Detection
People Counting
Intrusion Out of Hours
Face Recognition Access Control
2FA Access Control



Open Campus Entrances

Student Entry/Exit Counting
Groups Blocking Entrance
Groups Loitering Out of Hours
Vehicle Entering Pedestrian Areas
Forensic Search

Car Parks and Roadways

Vehicle Type Counting
Vehicle Speeding
Parking Bay Occupancy
Congestion Detection
Illegal Parking
Illegal Vehicle Turn/Direction
Vehicle Type Counting
ANPR Watchlist
Loitering Out of Hours Detection

Open Areas and Parks

Overcrowding
Bicycle Too Fast in Student Area
Car Parked in Road/Restricted Area
Vehicle in Pedestrian Zone
Crowd Panic
Loitering Out of Hours
Smoke Detection
Out of Hours Intrusion Detection
Abandoned Object Detection
Forensic Search and Investigation

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Energy and Utilities

External Asset Protection

Perimeter Protection
PTZ Tracking
Vehicle Intrusion/Illegal Parking
Intrusion Detection
Loitering Detection

Secure Buildings

Intrusion Detection
Perimeter Protection
Forensics & Investigation

Data rooms

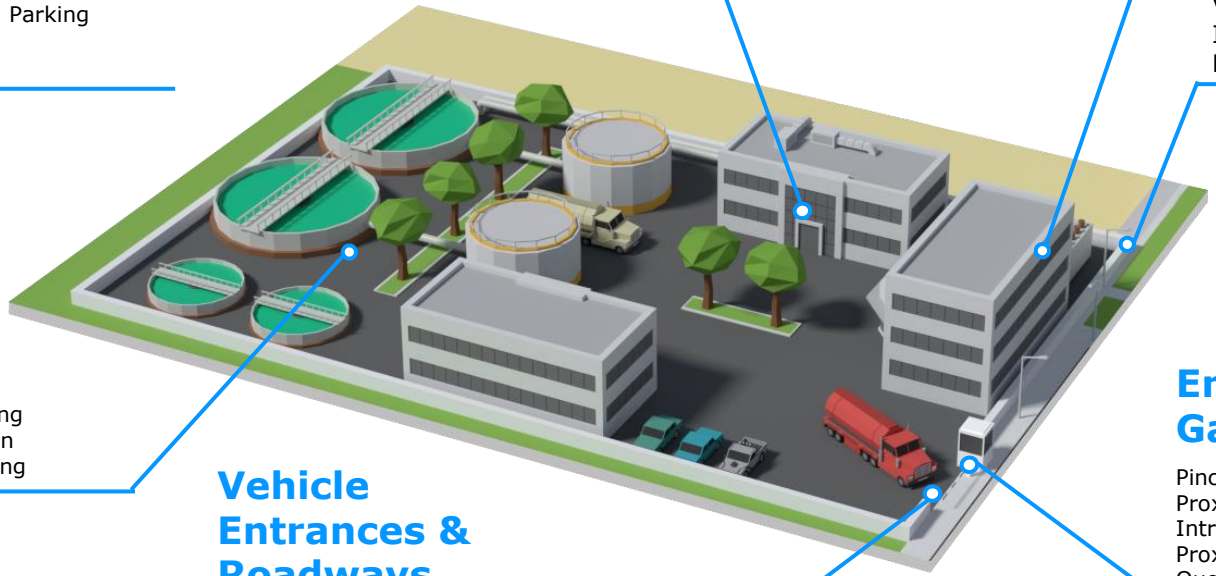
Face Recognition Watchlist
Tailgating Detection
Intrusion Detection
Smoke Detection

Perimeter

Perimeter Protection
PTZ Tracking
Vehicle Intrusion/Illegal Parking
Intrusion Detection
Loitering Detection

Asset & Site Monitoring

Forensic Search
Out of Hours Intrusion
PPE Detection
Slip & Fall Detection
Smoke Detection
Live GIS Location Tracking
Person Running Detection
Vehicle Intrusion/Speeding



Vehicle Entrances & Roadways

ANPR Watchlist
Vehicle Intrusion
Wrong-way Detection
Face Recognition
Abandoned Vehicle Detection

Entrances & Gatehouses

Pinch-Point People Counting
Proximity Detection
Intrusion Detection Out-of-hours
Proximity Monitoring
Queue Monitoring

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Hospital

Pharmacy & Restricted Areas

Face Recognition For Non-staff Detection
Loitering Near Staff-only Doors
Intrusion Out Of Hours
Forensic Search
Watchlist Detection

Staff Areas, & Restricted Entrances

2FA Access Control
Unregistered Person Detection
Tailgating Detection
Forensic Face Search

Site Security

Loitering In Key Areas Or Near Staff-only Doors
Forensic Search
Unregistered Person Detection
Intrusion Detection
Access Out Of Hours
Watchlist Alarms
Abandoned Object/Hallway Blocked

Ambulance Bays

Car parking in ambulance bay/critical routes
Ambulance Bays Occupied Reports

Car Parking

Parking Bay Occupancy Reports
Vehicle Counting & Type Reports
License Plate Recognition
Vehicle Overstay
Illegal Parking

Patient Wards

Social Distancing Compliance
Face Mask Wearing Compliance
Unattended Desk/Station alerts
Staff Visit Reports
Slip and Fall Detection
Watchlist Alerts (Patient Leaving Site)
Forensic Search
Multi-Camera Tracking

Roadways + Taxi Rank

Congestion Detection/Reports
Queue Management at Taxi Rank
Illegal Parking
Vehicle Overstay at Drop Off
Visual Smoke/Flame Detection

Waiting Areas

Social Distancing Compliance
Face Mask Wearing Compliance
Unattended Desk/Station alerts
Patient counting (People in Waiting Areas)
Slip and Fall Detection
Queue monitoring

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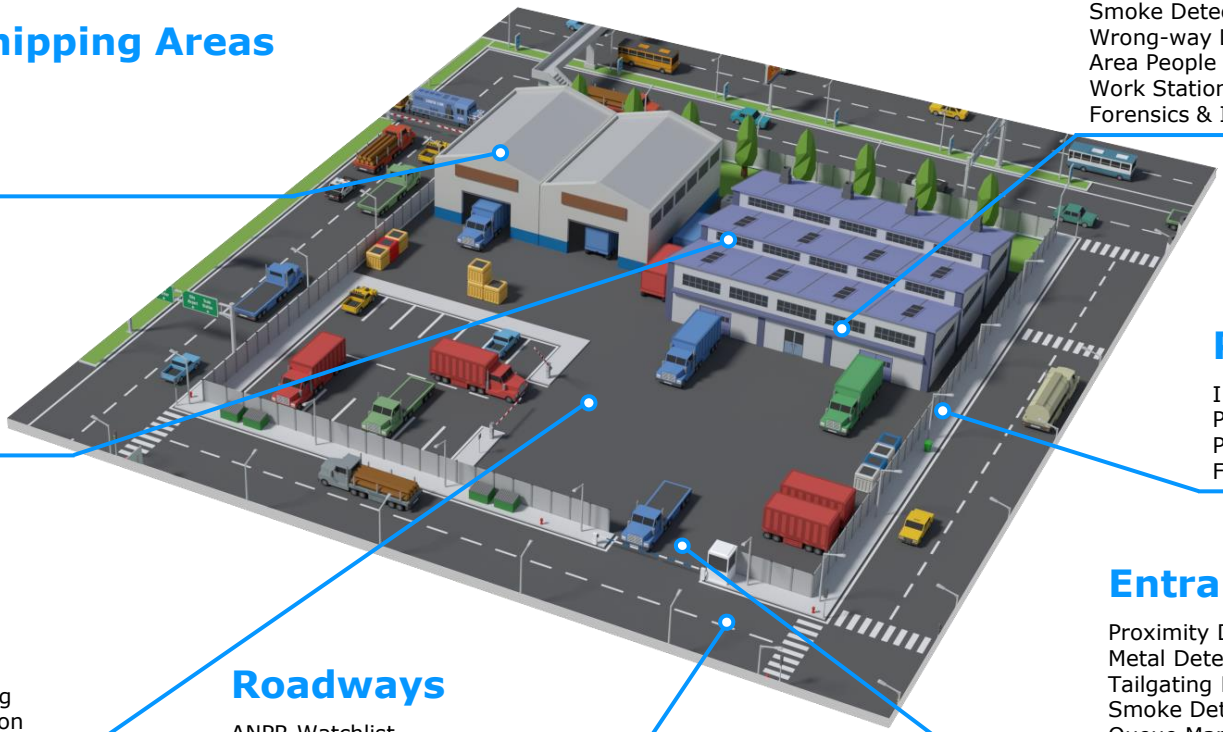
Manufacturing

Manufacturing Line

Person in Hazard Zone
PPE Monitoring
Smoke Detection
Wrong-way Detection
Area People Counting & Location
Work Station Activity Monitoring
Forensics & Investigation

Receiving & Shipping Areas

Smoke Detection
Vehicle Speeding
Person on Forklift Crossing
Forensics & Investigation



Breakrooms

Proximity Detection
Smoke Detection
Open Area People Counting
Activity Monitoring
Forensics & Investigation

Perimeter

Intrusion Detection
Perimeter Protection
PTZ Tracking
Forensics & Investigation

Vehicle Areas

Intrusion Detection
Smoke Detection
Wrong-way Detection
Pinch-Point People Counting
Abandoned Vehicle Detection

Roadways

ANPR Watchlist
Vehicle Intrusion
Wrong-way Detection
Face Recognition
Abandoned Vehicle Detection

Entrances

Proximity Detection
Metal Detector Bypass
Tailgating Detection
Smoke Detection
Queue Management
Wrong-way Detection
Pinch-Point People Counting
Open Area People Counting
Forensics & Investigation

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Oil & Gas

Drilling & Extraction Platforms

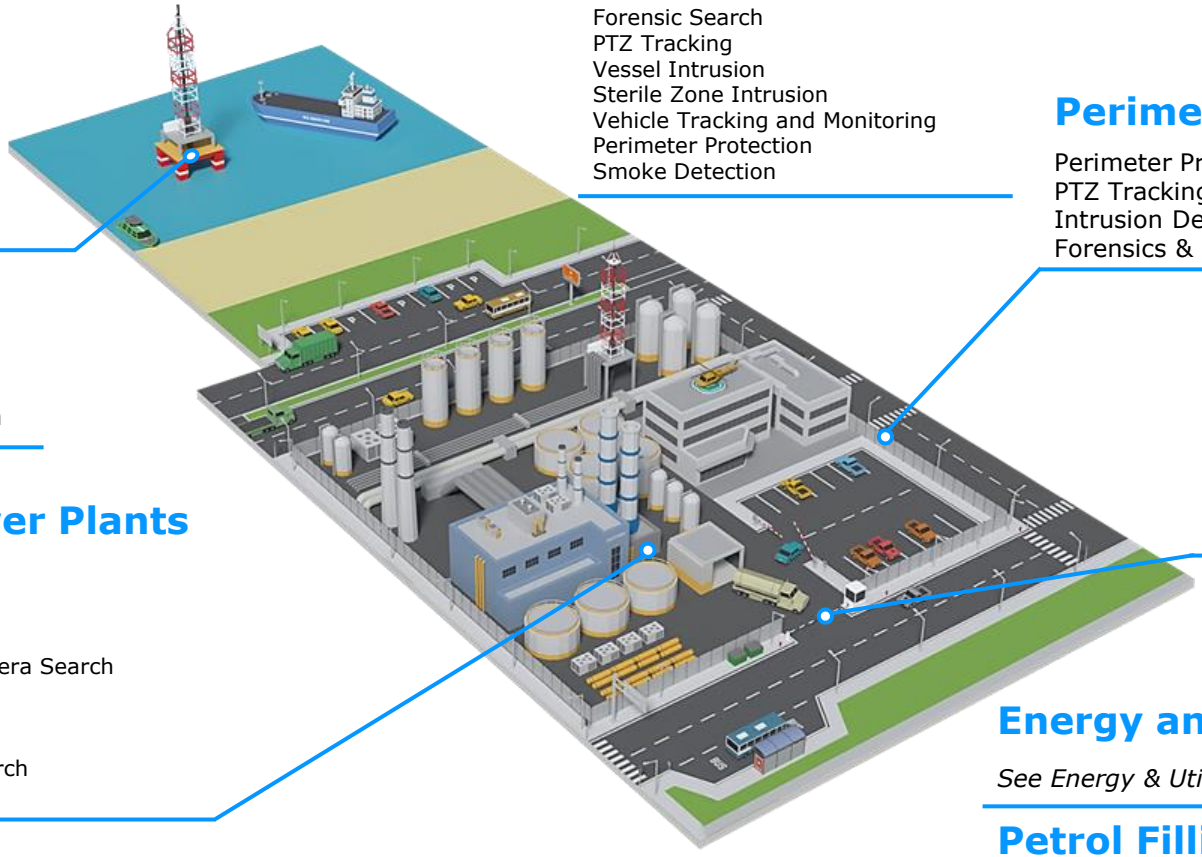
Forensic Search
PTZ Tracking
Smoke Detection

Pipelines

Pipeline Protection
PTZ Tracking
Vehicle Approach/Intrusion

Refineries, Power Plants & Other Sites

Forensic Search
PTZ Tracking
Face Recognition & Multi-Camera Search
PPE Detection
Face Mask Detection
Slip & Fall Detection
ANPR Watchlist & Vehicle Search
Smoke Detection



Oil & Gas Terminals & Ports

Forensic Search
PTZ Tracking
Vessel Intrusion
Sterile Zone Intrusion
Vehicle Tracking and Monitoring
Perimeter Protection
Smoke Detection

Perimeter

Perimeter Protection
PTZ Tracking
Intrusion Detection
Forensics & Investigation

Entrances

Forensic Search
PTZ Tracking
Face Recognition
Smoke Detection
Anti-Tailgating

Energy and Utilities

See Energy & Utilities Bundle

Petrol Filling Stations

See Petrol Filling Station Bundle

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Petrol Filling Station

Forecourt

Fire Safety Detections
- Person without Vehicle
- Vehicle Overstay
- Smoke Detection

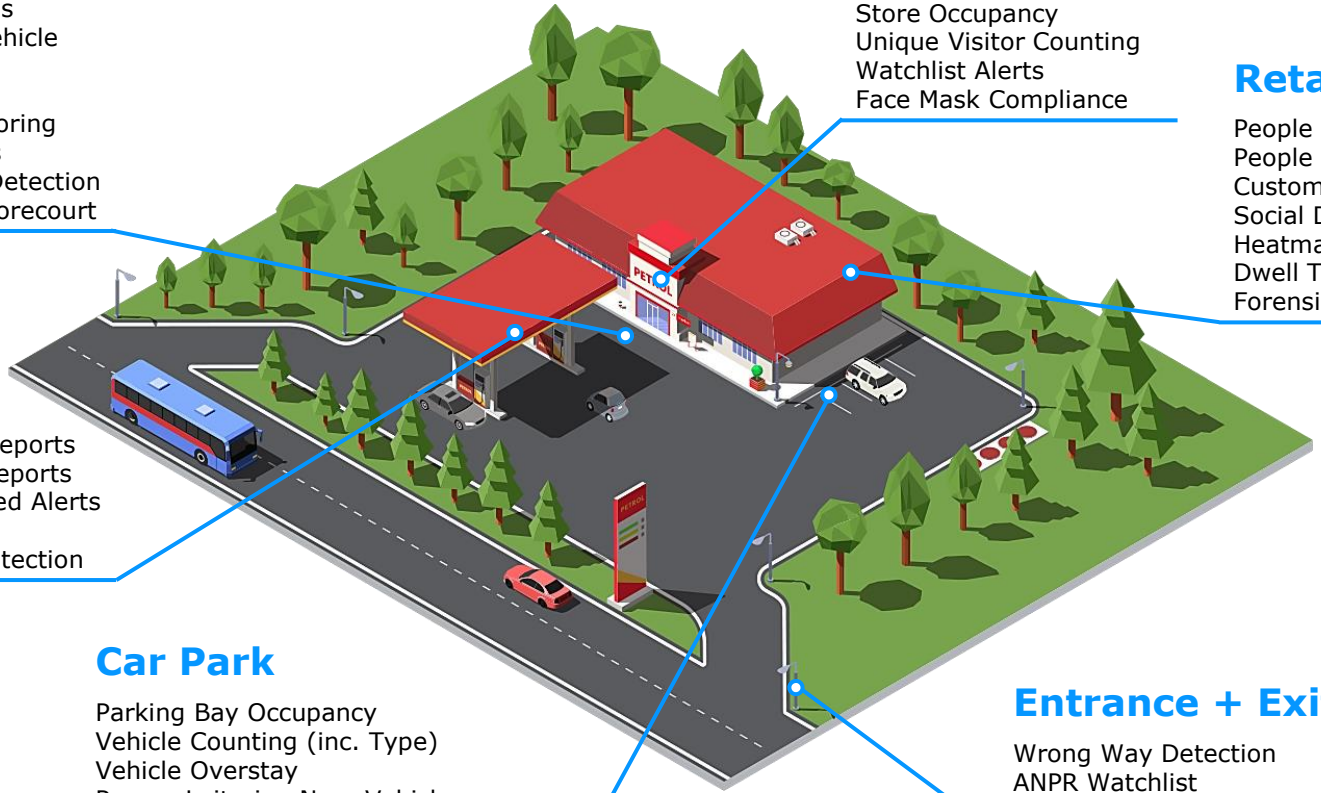
Vehicle Queue Monitoring
Vehicle Type Reports
Abandoned Vehicle Detection
Group Loitering on Forecourt

Store entrance

Time in Store
Store Occupancy
Unique Visitor Counting
Watchlist Alerts
Face Mask Compliance

Retail

People Counting (By Area)
People Counting (Occupancy)
Customer Flow Heatmaps
Social Distancing Monitoring
Heatmapping
Dwell Time
Forensic Search



Car Wash

Car Wash Utilisation Reports
Vehicle Queue Time Reports
Queue Length Exceeded Alerts
Vehicle Type Reports
Abandoned Vehicle Detection

Car Park

Parking Bay Occupancy
Vehicle Counting (inc. Type)
Vehicle Overstay
Person Loitering Near Vehicles
Time in Bay Reports

Entrance + Exit

Wrong Way Detection
ANPR Watchlist
Vehicle Type Detection

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Prison

Inmate Areas

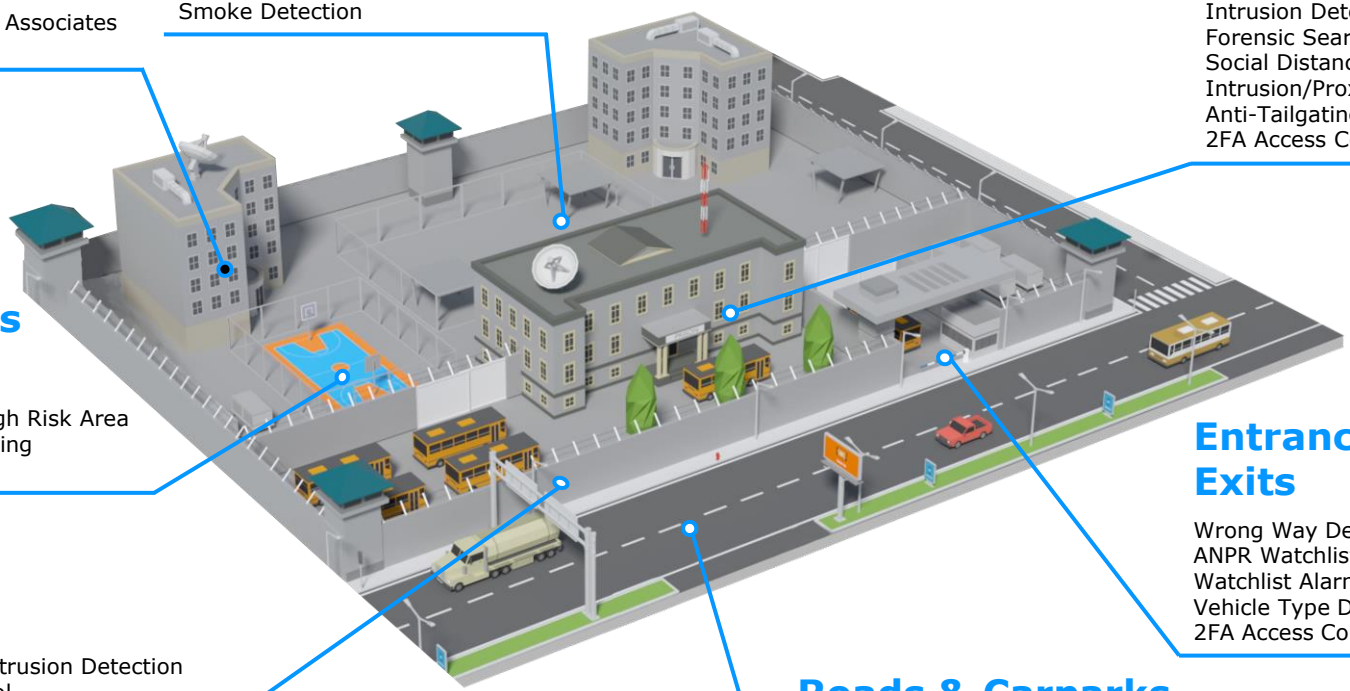
People Counting (Overview)
Groups Forming/Loitering
Forensic Search
Social Distancing Reports
Smoke Detection

Cell Blocks

Time in Area Monitoring
Face Detection – Common Associates
Weapons Detection

Visitors Area

Intrusion Detection
Forensic Search
Social Distance Monitoring
Intrusion/Proximity Violations
Anti-Tailgating
2FA Access Control



Exercise Yards

Yard Usage Heatmaps
Loitering Time Heatmaps
Person Entering Sterile/High Risk Area
Internal Perimeter Monitoring
Smoke Detection

Entrances & Exits

Wrong Way Detection
ANPR Watchlist
Watchlist Alarms (VIP/Threat)
Vehicle Type Detection
2FA Access Control

Perimeter

Thermal Perimeter Intrusion Detection
Automatic PTZ Control
People Approaching/Leaving Site

Roads & Carparks

Illegal Parking
Vehicle Overspeed
Forensic Search
Abandoned Vehicle Detection

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Railways

Track Monitoring

Person on Track
Fence-line Breach

Entrances

Face Recognition
Mask Detection

Concourse

Social Distancing
Intrusion Out of Hours
Abandoned Object
Overcrowding
Loitering
Queue Management

Access

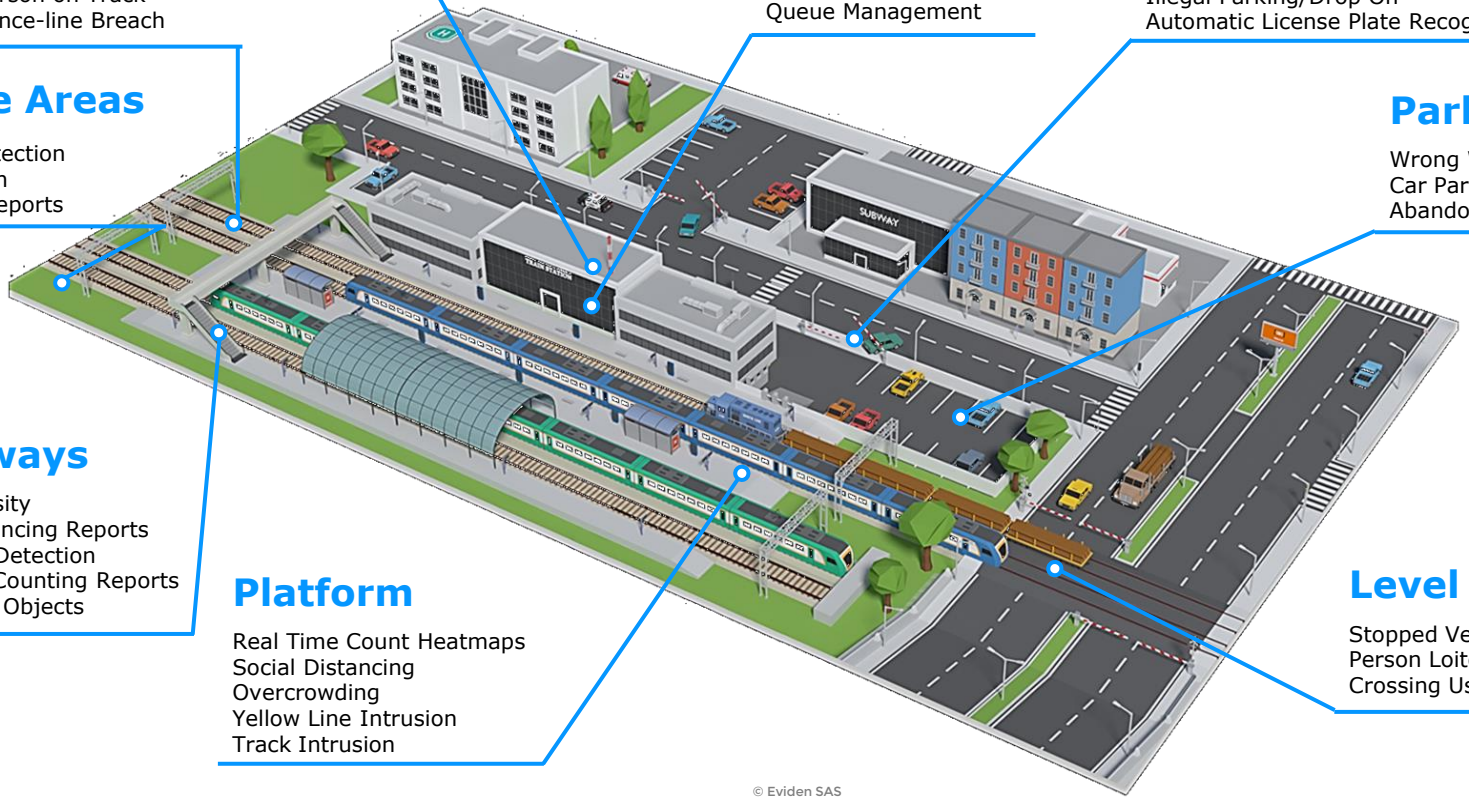
Illegal Parking/Drop Off
Automatic License Plate Recognition

Service Areas

Intrusion Detection
PPE Detection
Site Usage Reports

Parking

Wrong Way (Vehicle)
Car Park Occupancy
Abandoned Vehicle Detection



Walkways

Crowd Density
Social Distancing Reports
Face Mask Detection
Passenger Counting Reports
Abandoned Objects

Platform

Real Time Count Heatmaps
Social Distancing
Overcrowding
Yellow Line Intrusion
Track Intrusion

Level Crossings

Stopped Vehicle
Person Loitering on Track
Crossing Usage Reports

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Retail

Checkouts

Queue Length Reports
Average Queuing Time
Maximum Queuing Time
Queue Abandon Rates
Queue Length Exceeded Alerts
Staff Time At Desk Reports

Warehousing/Back of House

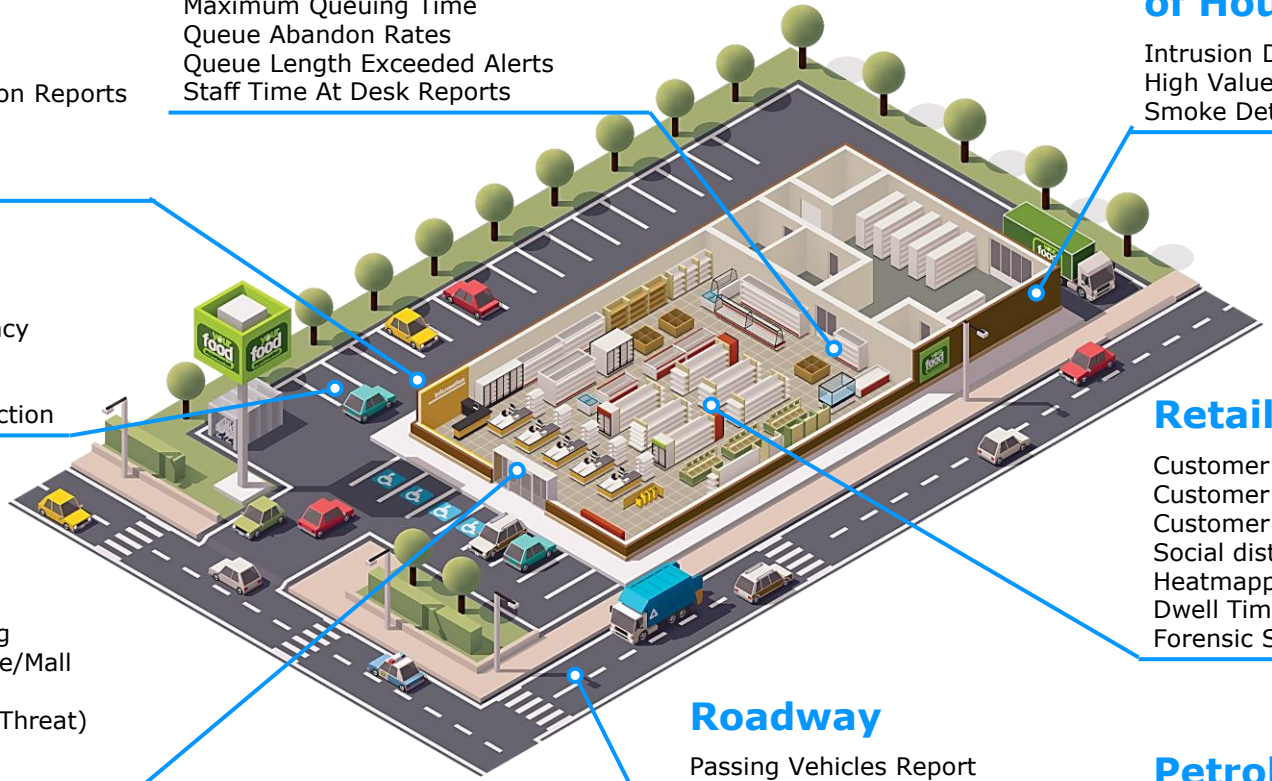
Intrusion Detection
High Value Goods Protection
Smoke Detection

Outside Store

Passing Trade Conversion Reports
Groups Loitering
Bicycle on Pavement
Forensic Search

Parking

Vehicle Count Reports
Current Parking Occupancy
Vehicle Speeding
Vehicle Overstay
Abandoned Vehicle Detection



Retail Space

Customer Counting (By Area)
Customer Counting (Occupancy)
Customer Flow Heatmaps
Social distancing monitoring
Heatmapping
Dwell Time
Forensic Search

Entrances

Unique Visitor Counting
Customer Time in Store/Mall
Demographic Reports
Watchlist Alarms (VIP/Threat)
Face Blurring
Face Mask Detection

Roadway

Passing Vehicles Report
Congestion Detection
Stopped Vehicle Detection
Delivery Van/Truck Stopped

Petrol Filling Stations

See Petrol Filling Station Bundle

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Road

Bridges

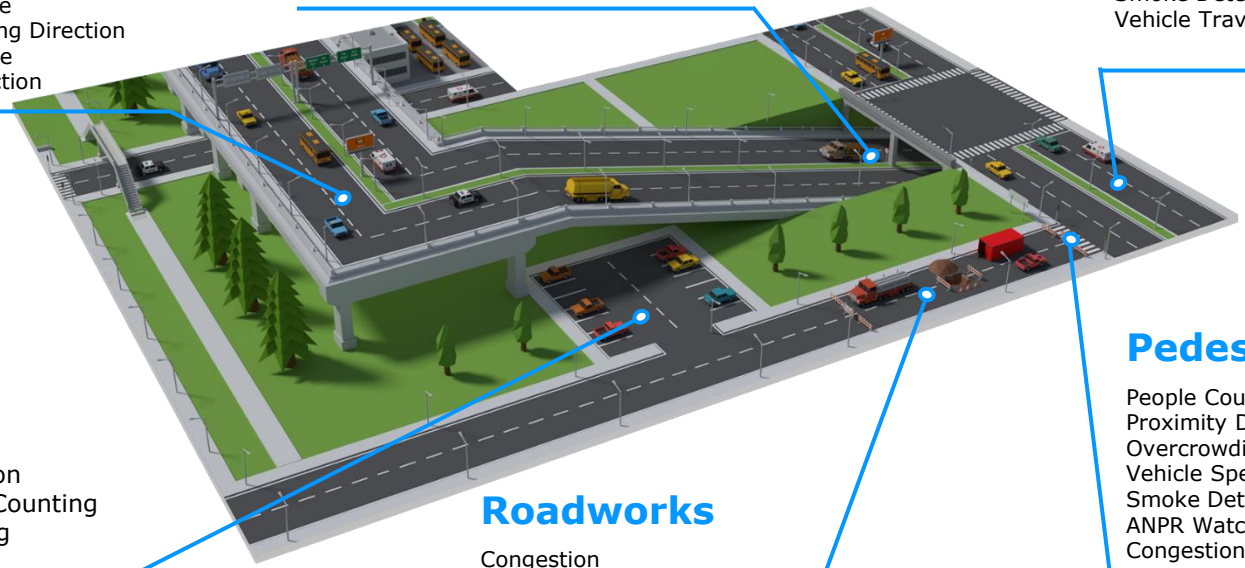
Person or Bike Intrusion
Vehicle Type Counting
Congestion Detection
Smoke Detection
Speeding
Vehicle Stopped on Bridge
Vehicle Travelling in Wrong Direction
Person Loitering on Bridge
Abandoned Vehicle Detection

Tunnels

Person or Bike intrusion
Vehicle Type Counting
Congestion Detection
Smoke Detection
Speeding
Vehicle Stopped in Tunnel
Vehicle Travelling in Wrong Direction
Abandoned Vehicle Detection

Major Roadways & Highways

Speeding
Congestion
Illegal Stop/Turn
Illegal Parking
Vehicle Type Counting
Smoke Detection
Vehicle Travelling Wrong Way



Carparks

Congestion
Illegal Parking
Illegal Turn
Vehicle Wrong Direction
Parking Vehicle Type Counting
Parking Bay Monitoring
ANPR Watchlist

Roadworks

Congestion
Intrusion Detection
Vehicle in Restricted Area
Smoke Detection

Pedestrian Crossings

People Counting
Proximity Detection
Overcrowding
Vehicle Speeding
Smoke Detection
ANPR Watchlist
Congestion Detection

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SeaPort

Rail Link

Intrusion Detection
Activity Monitoring
Person/Object on Tracks

Internal Roads

Intrusion in AGV Zone
PPE Monitoring
Activity Reports
Smoke Detection

Harbour

Vessel Intrusion
PTZ Tracking
PPE Monitoring
Person in Hazard Zone
Activity Reports

Customs

Vehicle Queue Monitoring
ANPR
Face Recognition

Storage

Intrusion Out of Hours
Smoke Detection
Forensic Search

External Roads

Illegal Parking/Stop
Illegal Turn/U-Turn
Congestion Reports & Alarms
ANPR
Abandoned Vehicle Detection

Perimeter Fence

Intrusion
PTZ Tracking
GIS Alerts

Gates

Face Recognition
Anti-Tailgating (Person)
Vehicle Counting
ANPR Watchlist

Warehouses

Intrusion Out of Hours
Social Distancing
Smoke Detection
Forensic Search

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Smart City

Venues and Landmarks

- Healthy Buildings
- Intrusion Detection

Protect well known sites from intrusion, theft, and other risks. Manage the spread of coronavirus and monitor site use.

Public Spaces

- Crowd Management

Respond to anti-social behavior faster and direct operators focus to what matters most. Understand how people use the space and optimize for health, safety, and security.

Stadiums + Arenas

See Stadium Bundle

Seaport

View Seaport Bundle

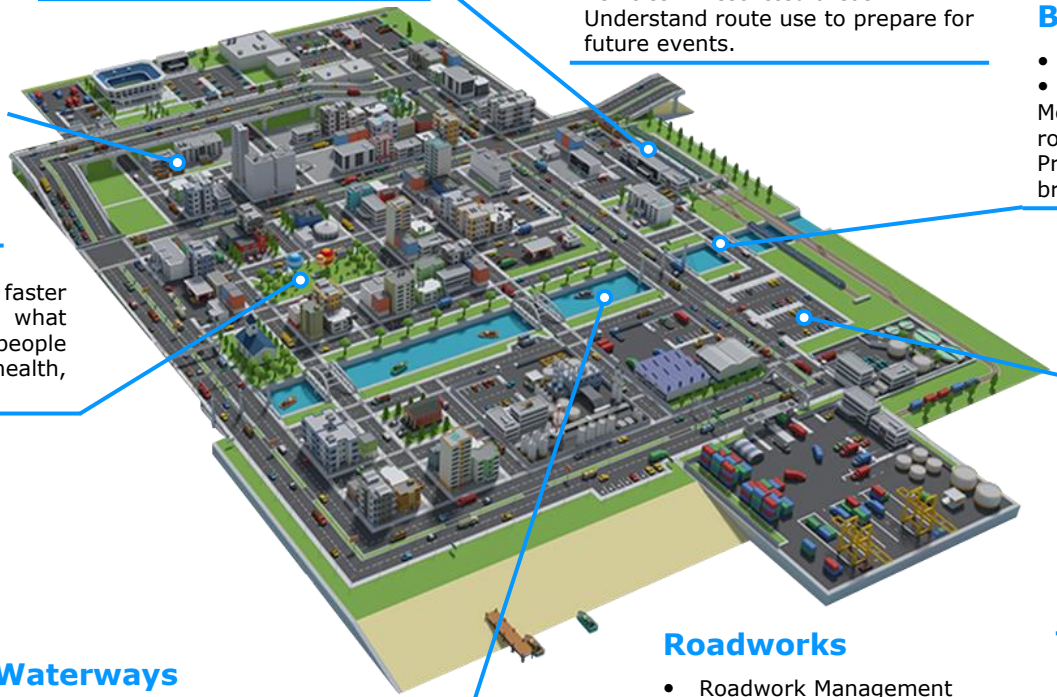
Airport

See Airport Bundle

Transportation Links

- Intrusion Detection
- Crowd Management

Track crowd flows and identify high risk issues faster.



Major Events

- Crowd Management

Real time feedback to help manage crowds at major events and reduce the response time to incidents such as overcrowding, blockages, and vehicles in restricted areas.
Understand route use to prepare for future events.

Road Network

- Traffic Management

Detect common incidents and issues on roadways to help redirect traffic and address the issue faster.

Bridges

- Traffic Management
- Intrusion Detection

Monitor traffic use on bridges and keep roadways safe and free-flowing. Prevent unauthorized access to the bridge or roadway.

Car Parks

- Traffic Management

Monitor parking use to generate reports and live alarms for possible issues.

Tunnels

- Traffic Management
- Intrusion Detection

A range of roadway solutions to reduce the response time to incidents and congestion and keep tunnels safe and operational.

Waterways

- Intrusion Detection

Rapidly detect vessels in unauthorized areas and people approaching high-risk locations. Option for immediate audio warnings.

Roadworks

- Roadwork Management

Re-deployable licenses to report on roadwork construction times. Assist in lane rental billing. Monitor activity around roadworks including vehicle speeds and congestion.

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Stadium

Stadium Perimeter

Intrusion Detection
PTZ Tracking
GIS Alerts

Staff Entrances

Face Recognition Watchlist/
Access Control

Staff & VIP Areas

Watchlist
Crowd Monitoring Proximity Alerts & Reports

Lobbies, Hallways & Ticketing

People Count in Area
People Ingress/Egress Reports
Heatmaps
Overcrowding Alerts
Queue Monitoring
Crowd Panic
Restricted Area Intrusion

Entrances

FR Watchlist
Facemask Detection

Bridges & Visitor Access

Pinch Point People Counting
Heatmaps
Proximity Monitoring

Stadium Approach

People Counting
Overcrowding
Queue Monitoring
Crowd Panic

Transportation Links

People Counting
Queue Monitoring
Abandoned Object
FR Watchlist/Reconnaissance
Forensic Search and Tracking

Retail Units

Customer Counting
Passing Trade Conversion Reports
Heatmaps
See Retail Bundle

Roadways & Vehicle Access

Vehicle Intrusion
Congestion
Illegal Stopping/Parking
Taxi Bay Monitoring
Vehicle Type Reports

Parking

Congestion
Parking Bay Occupancy
Illegal Parking
Illegal Turn/Direction
Parking Vehicle Type Counting
ANPR Time in Area & Overstay
ANPR Watchlist

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Warehouses & Logistics

Breakrooms

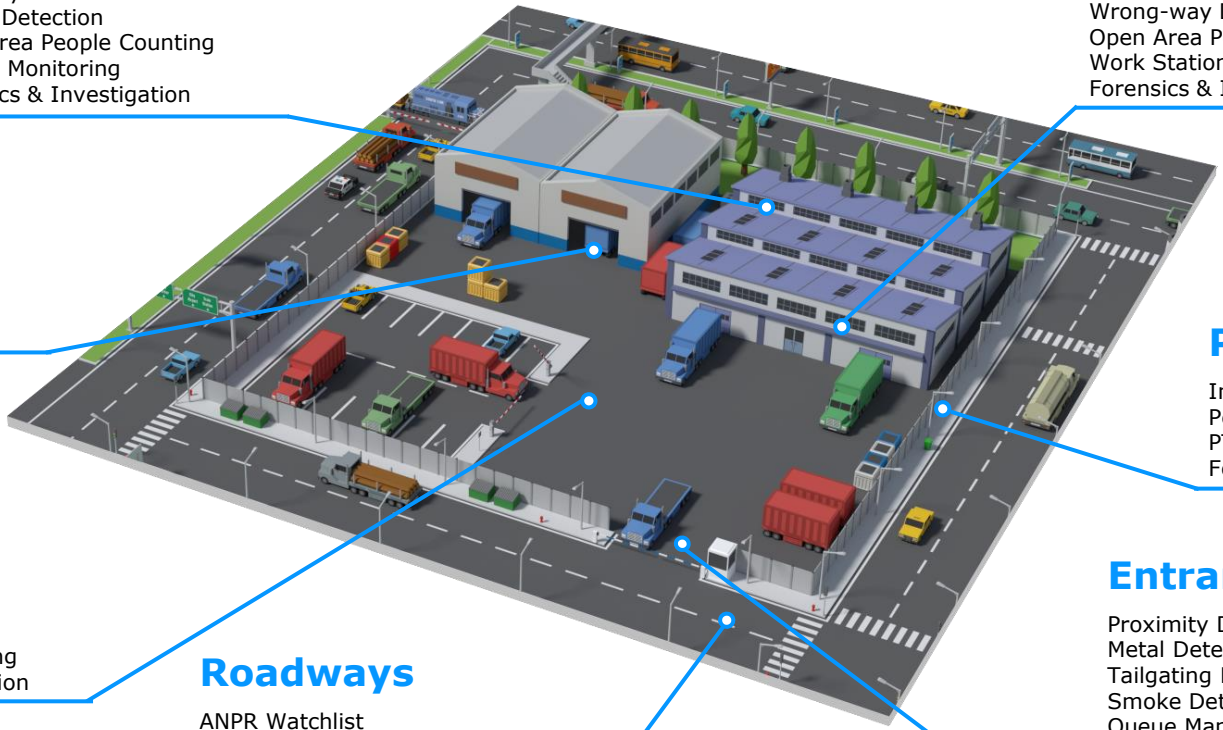
Proximity Detection
Smoke Detection
Open Area People Counting
Activity Monitoring
Forensics & Investigation

Pick Area

Proximity Detection
Smoke Detection
Wrong-way Detection
Open Area People Counting
Work Station Activity Monitoring
Forensics & Investigation

Goods Area

Smoke Detection
Vehicle Speeding
Forensics & Investigation



Perimeter

Intrusion Detection
Perimeter Protection
PTZ Tracking
Forensics & Investigation

Vehicle Area

Intrusion Detection
Smoke Detection
Wrong-way Detection
Pinch-Point People Counting
Abandoned Vehicle Detection

Entrances

Proximity Detection
Metal Detector Bypass
Tailgating Detection
Smoke Detection
Queue Management
Wrong-way Detection
Pinch-Point People Counting
Open Area People Counting
Forensics & Investigation

Roadways

ANPR Watchlist
Vehicle Intrusion
Wrong-way Detection
Forensic Reports
Face Recognition
Abandoned Vehicle Detection

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