WORLD'S LEADING AI ENGINE BUILDERS

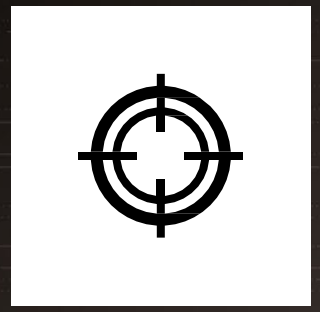
VAIDIO

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

UTILITIES

VIDEO SEARCH

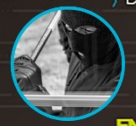
ENFORCEMENT

- Identify persons & vehicles
- Multiple camera search
- Color search
- Quantity search

FACE RECOGNITION

ACCESS CONTROL

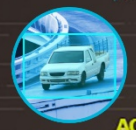
- Face search
- Blacklists / whitelists
- Detect multiple persons
- Detect face similarities



INTRUSION DETECTION

ENFORCEMENT

- No false alarms
- Multiple ROI's
- Perimeter detection
- Restricted area protection



LICENSE PLATE RECOGNITION

ACCESS CONTROL

- Read license plates
- Track stolen vehicles
- Detect permit holders
- Improve site security

ILLEGAL PARKING

ENFORCEMENT

- Parking access availability
- Find vacant parking spots
- Park in restricted zones
- Manage incidents

VEHICLE COUNTING

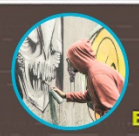
INFRASTRUCTURE

- Optimize traffic flows
- Statistical traffic reporting
- Reduce pollution
- Infrastructure planning

PEOPLE COUNTING

INFRASTRUCTURE

- Control visitor flows
- Occupancy rate
- Queue detection
- Detection of peak hours



LOITERING DETECTION

ENFORCEMENT

- Detects suspicious behavior
- Unauthorized presence
- Analyze movements
- Prevents crime

WEAPON DETECTION

SAFETY

- Detect guns, rifles & knives
- Fast response to danger
- Active shooter detection
- Prevent violent crime

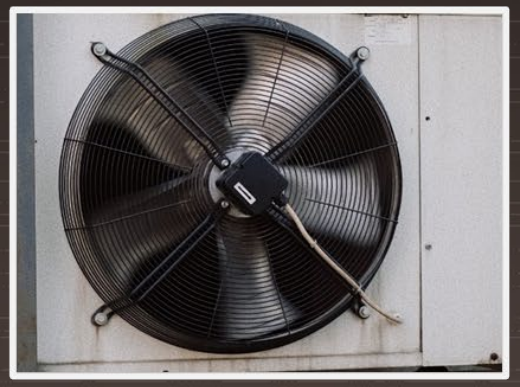
FIRE DETECTION

SAFETY

- Fast smoke & fire detection
- Prevent property damage
- Guaranteed fire safety
- Quick response save lives

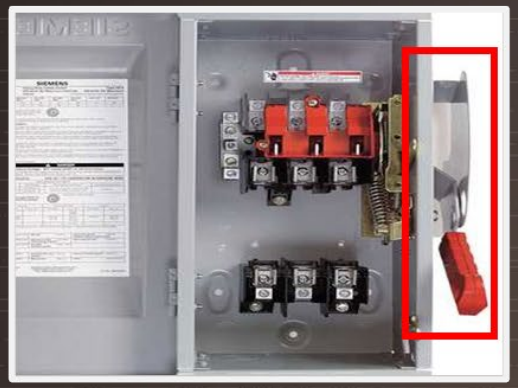
EQUIPMENT STATUS

Corrosion detection



Fan status

Needle position / fuel level alarm



Knife switch position

Filter status

Breaker status

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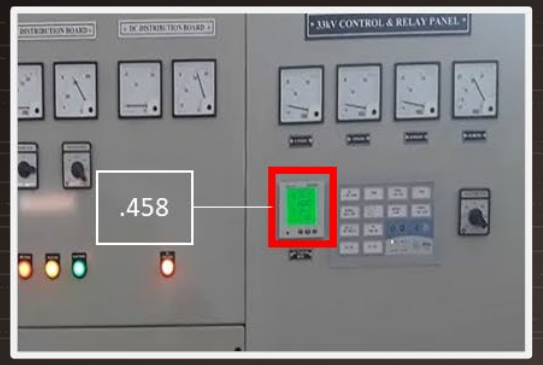
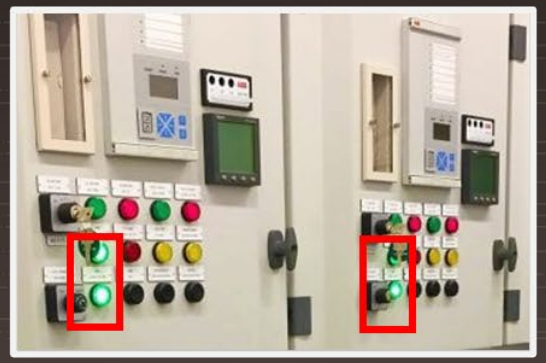
EQUIPMENT STATUS



Text displayed in a screen (change)



LED status

Oil/water leakage

Spark detection

Temperature detection

Switch status (on demand or change)

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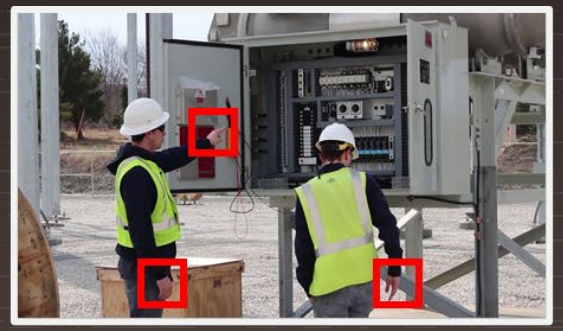
EMPLOYEE SAFETY

Uniform recognition



Glove usage

People Counting

Person Smoking

Helmet usage

Fall Detection

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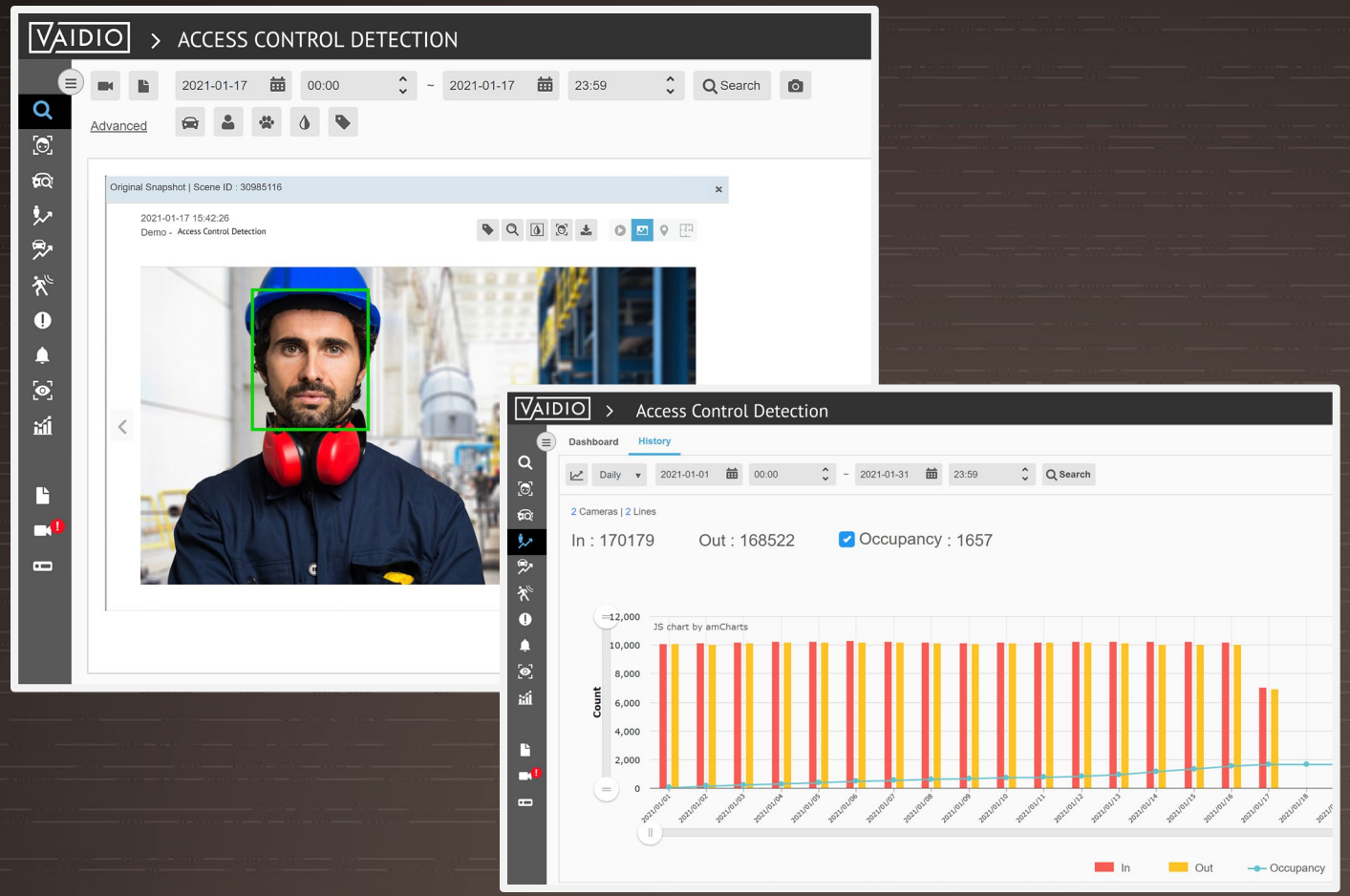
AI-BASED FACE RECOGNITION



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

ANALYZE PEOPLE MOVEMENT

GENERATE ACCESS CONTROL REPORTS BASED ON INCIDENTS

VAIDIO™

AI-BASED FACE RECOGNITION

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

FACE RECOGNITION ACCESS CONTROL PROVIDES ACCESS TO THE WORKPLACE IN REAL-TIME AND PREVENTS FRAUD

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

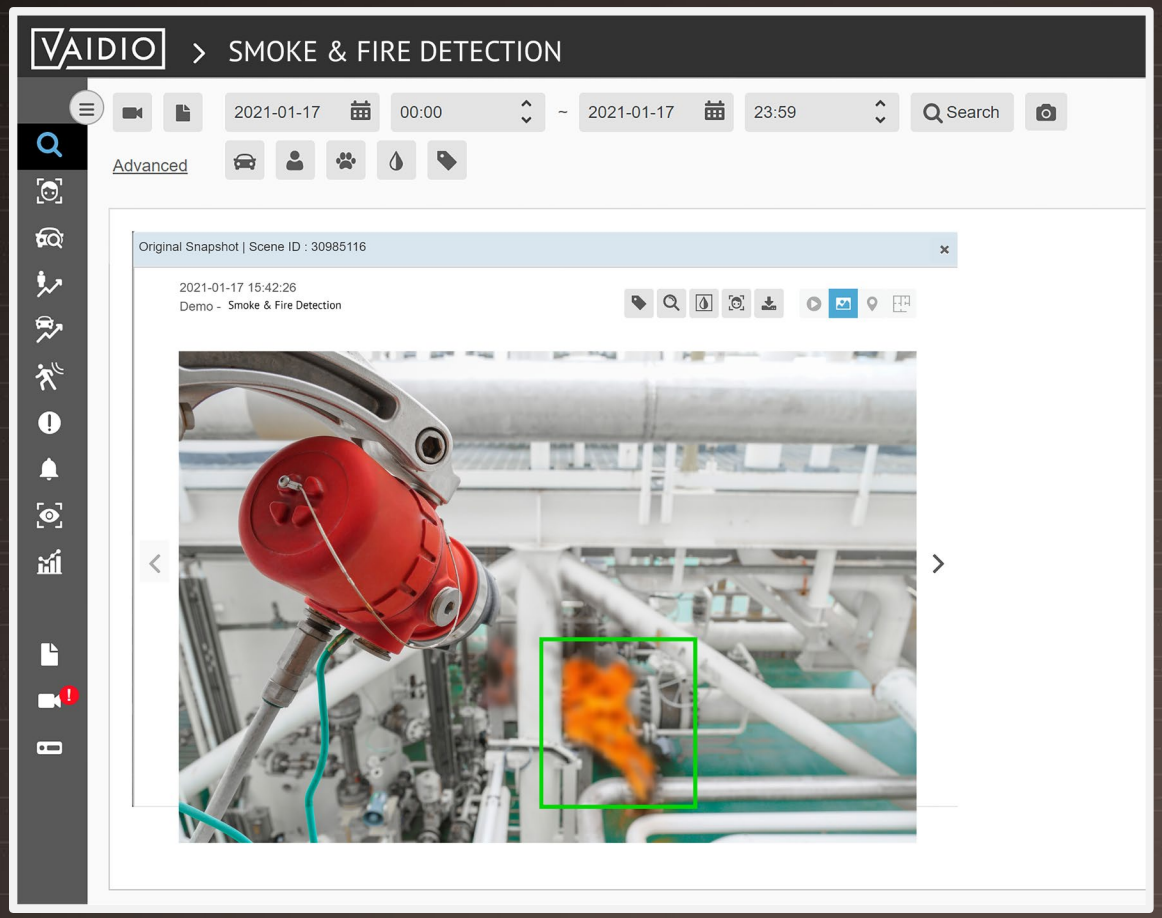
MANAGED FROM A PUBLIC, PRIVATE OR HYBRID CLOUD

EASIER TO MAINTAIN – REMOTE SYSTEM HEALTH MONITORING

BENEFITS

VAIDIO™

AI-BASED SMOKE & FIRE DETECTION



MONITOR AND DETECT SMOKE & FIRE IN AND AROUND THE FACTORY 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

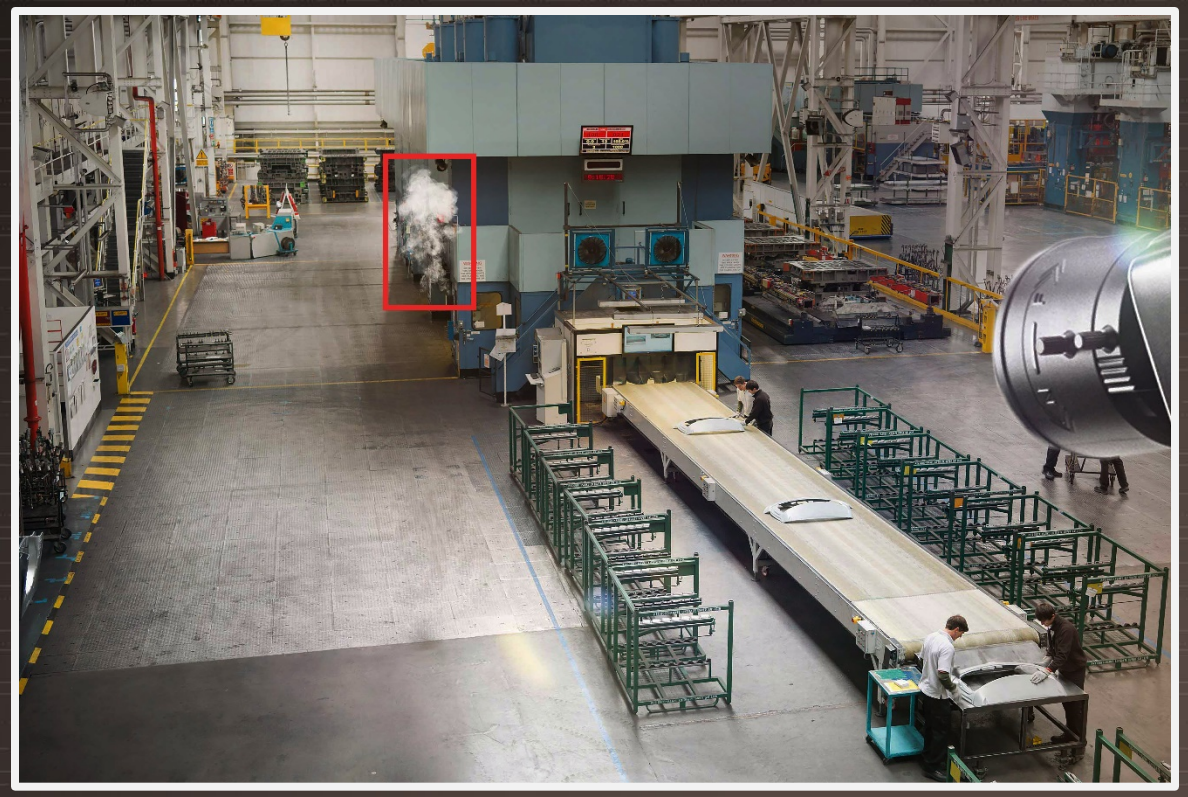
INVESTIGATE VIA VIDEO SEARCH AND PROVIDE VISUAL EVIDENCE FOR INSURANCE COMPANIES.

INTEGRATE VAIDIO WITH THE FACTORY FIRE PROTECTION SYSTEM.

VAIDIO IS ABLE TO SEND OUT ALERTS TO THE FIRE BRIGADE

VAIDIO™

AI-BASED SMOKE & FIRE DETECTION



BENEFITS

REDUCE DAMAGES TO A MINIMUM VIA EARLY SMOKE & FIRE DETECTION

SECURE A SAFE WORK ENVIRONMENT

PROVIDE VISUAL EVIDENCE FOR INSURANCE CLAIMS

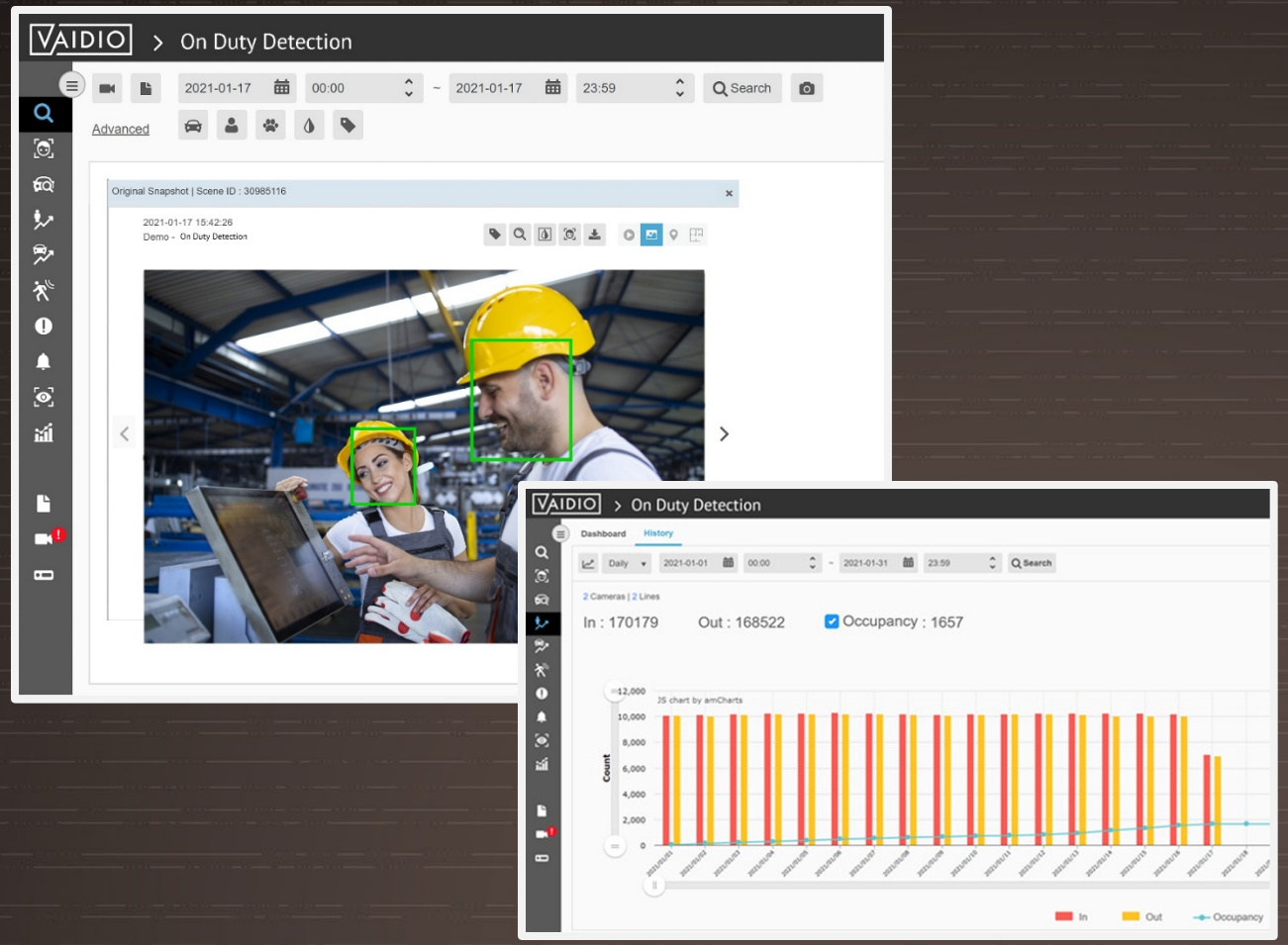
EASY INTEGRATION WITH THE FIRE DETECTION SYSTEM TO ALERT STAFF AND FIRE BRIGADE IN REAL-TIME

MANAGED FROM A PUBLIC, PRIVATE OR HYBRID CLOUD

EASIER TO MAINTAIN – REMOTE SYSTEM HEALTH MONITORING

VAIDIO™

AI-BASED ON DUTY DETECTION



MAKE SURE THAT OPERATORS ARE AVAILABLE AT MISSION CRITICAL PRODUCTION UNITS TO PREVENT PRODUCTION STOPS

INTEGRATION OF VAIDIO AI-BASED FACE RECOGNITION IN HRM SYSTEM

ANALYZE PEOPLE MOVEMENT

GENERATE ON DUTY REPORTS BASED ON INCIDENTS AND PRODUCTION STOPS

VAIDIO™

AI-BASED ON DUTY DETECTION

PREVENT PRODUCTION STOPS AS RESTARTS ARE EXPENSIVE

EASY INTEGRATION WITH EXISTING HRM SYSTEMS

TRACK TARGET PERSONS ON A MAP IN REAL-TIME AND ALERT THEM TO GO BACK TO THEIR PRODUCTION UNIT

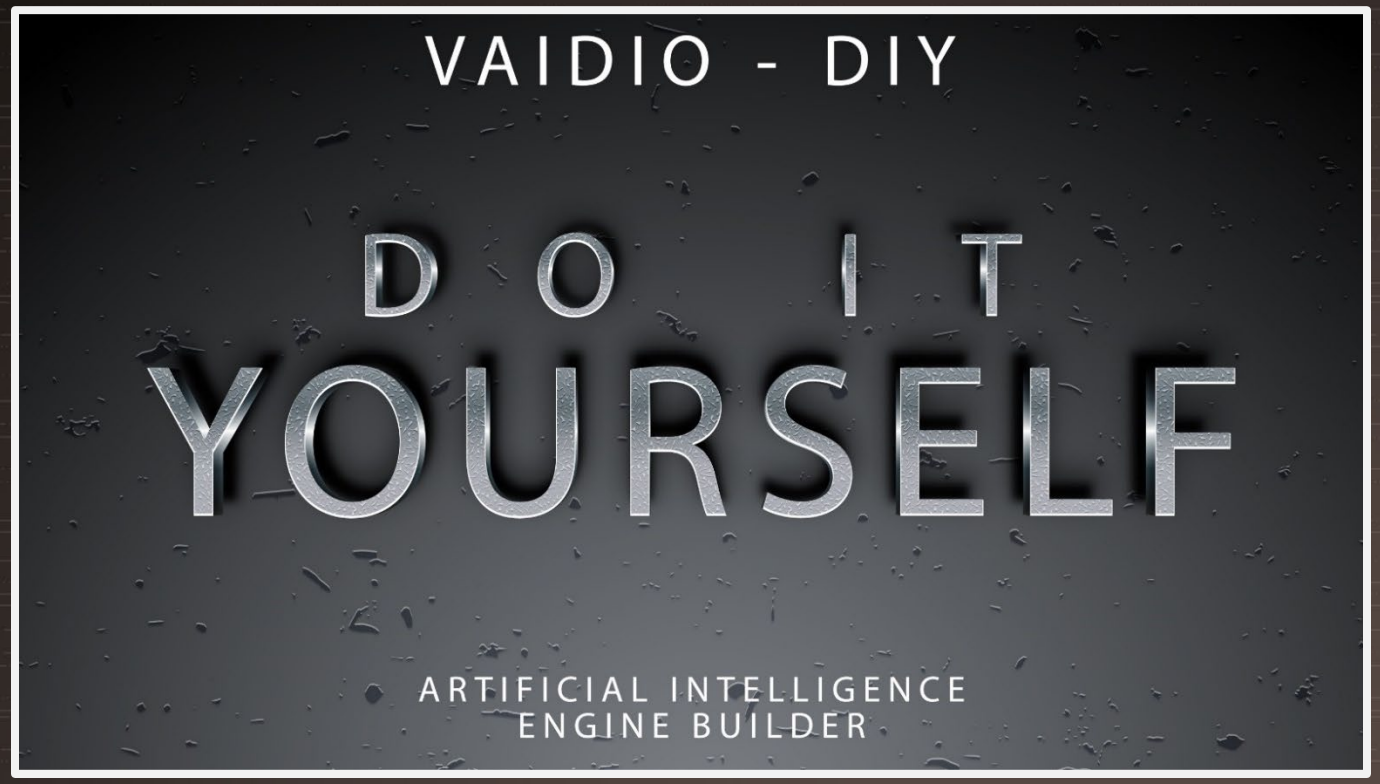
MANAGED FROM A PUBLIC, PRIVATE OR HYBRID CLOUD

EASIER TO MAINTAIN – REMOTE SYSTEM HEALTH MONITORING

BENEFITS

VAIDIO™

VAIDIO TOOL KIT



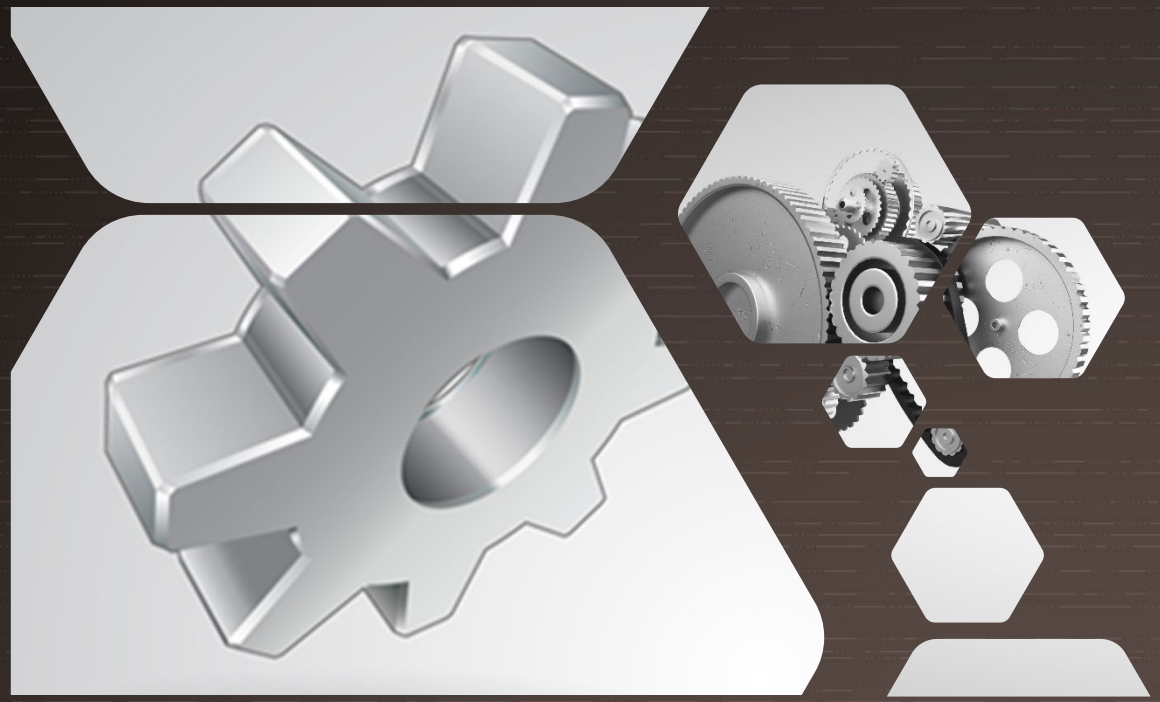
TRAIN YOUR OWN OBJECT DETECTION MODEL

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 DRONE SIGHTINGS OVER CRITICAL INFRASTRUCTURE FACILITIES

SOLUTION

TRAIN YOUR OWN DRONE DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- PROTECT CRITICAL INFRASTRUCTURE FACILITIES
- PREVENT TERRORIST ATTACKS

NUCLEAR POWER PLANT

VAIDIO™

USE CASE 2

CHALLENGE

DETECT IRREGULARITIES IN ELECTRIC POWER LINES NETWORK WITH AI-ENABLED DRONES

SOLUTION

TRAIN YOUR OWN ABNORMALITIES MODEL FOR ELECTRIC POWER LINES WITH VAIDIO-DIY

BENEFITS

- PROTECT NETWORK OF ELECTRIC POWER LINES
- PREVENT SEVERE ACCIDENTS
- GUARANTEE ELECTRIC SUPPLY FOR CITIZENS

ELECTRIC POWER LINES

VAIDIO™

USE CASE 3

CHALLENGE

DETECT CORROSION IN TRANSMISSION TOWERS NETWORK

SOLUTION

TRAIN YOUR OWN CORROSION DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- PROTECT CRITICAL INFRASTRUCTURE COMMUNICATION NETWORK
- GUARANTEE COMMUNICATION FACILITIES FOR CITIZENS

TRANSMISSION TOWERS

VAIDIO™

INTEGRATION CAPABILITIES

CAMERA INTEGRATION

CLOUD PLATFORM INTEGRATION

ERP INTEGRATION

IO DEVICE INTEGRATION

SOFTWARE SERVICES

VMS INTEGRATION

VAIDIO™

UTILITIES

VAIDIO BENEFITS & SAVINGS

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

VAIDIO AI-ENABLED VIDEO ANALYTICS PROVIDES ACTIONABLE DATA TO ANALYZE & OPTIMIZE DECISION MAKING AROUND THE UTILITIES 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 PLANT 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