# TMA safety and security

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TMA Safety and security overview

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# Safety & security solutions



# Sample customers

emart

LOTTE Mart

RENESAS

QTSC
Quality Tech Solution Complex

DEUTSCHES HAUS
HO CHI MINH CITY

PETROVIETNAM
PVFCCo

VUTM

VINHOMES
ROYAL CITY

CONCENTRIX™

FrieslandCampina

RICONS
One team - Great solution

SAMCO
Đồng hành và chia sẻ

Heron Lake
GOLF COURSE & RESORT

IPH

# Solutions

# Solution: Smart parking

**Control vehicle entry and exit using multiple authentication methods, vehicle recognition, and automated barrier operation**

- **Detect license plates anywhere in the image**
- **License plate noise filtering**
- **Operate without a network connection**




## Applications

- Vehicle access control
- Parking usage analysis

## Target clients

- Apartment buildings
- Shopping malls
- Factories & industrial parks

# Solution: Access control & attendance checking

**Control access and track attendance through multiple authentication methods, combining management software with access control devices**

- **Operate without a network connection**
- **Detailed reports and HRM integration**
- **Flexible shift management and workforce scheduling**




## Applications

- People access control
- Attendance & workforce management

## Target clients

- Offices & enterprises
- Factories & industrial parks
- Schools & educational institutions

# Solution: Smart locker

**An integrated hardware and software smart locker solution for secure, keyless item delivery, pickup, and storage.**

- Keyless access
- Automated operation
- Contactless delivery
- Secure storage for users

## 1 Self Storage by User

Store and retrieve items on your own



- Scan Face ID to authenticate
- Open locker
- Store or retrieve your items



## 2 Delivery by Shipper and Pickup by Recipient

### 2.1 Delivery by Shipper



- Enter recipient's phone number
- Verify recipient information
- Place the item in the locker

Notification sent to recipient via SMS

### 2.2 Pickup by Recipient



- Scan Face ID to authenticate
- Open locker
- Take the item

## Applications

- Personal item storage
- Parcel delivery & collection

## Target clients

- Shopping malls
- Office buildings
- Apartment buildings
- Gyms & swimming pools

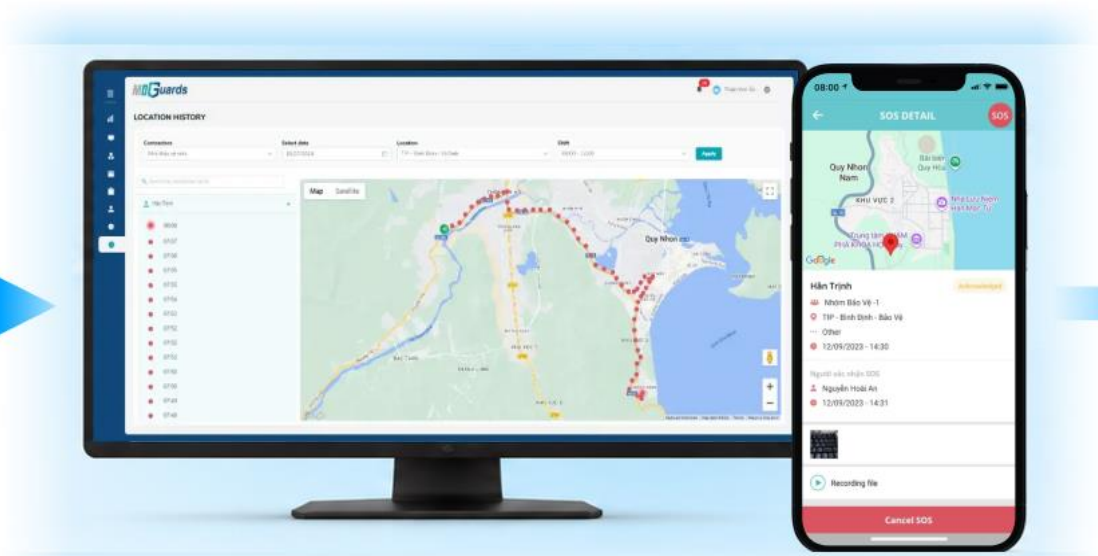
# Solution: Security & staff tracking

**Track security personnel and staff locations in real time, monitor patrol activities, and manage incidents from a centralized system**

- **Real-time personnel tracking**
- **Automated patrol monitoring**
- **Faster incident response**
- **Centralized security operations**

## Data from multiple sources

- **AI** (Advanced Algorithms)
- **Smart Camera** (Mutile-Sensor Devices)
- **Robot** (IoT Devices)
- **Other Integrations** (Third-party Solutions)




## Key features

- Scheduling & Tasks
- Attendance (Face ID)
- Location Tracking
- Incidents & Alerts
- Rule Violation
- Reporting & Dashboards

## Applications

- Staff scheduling & task assignment
- Staff attendance management
- Field staff tracking
- Incident & SOS handling

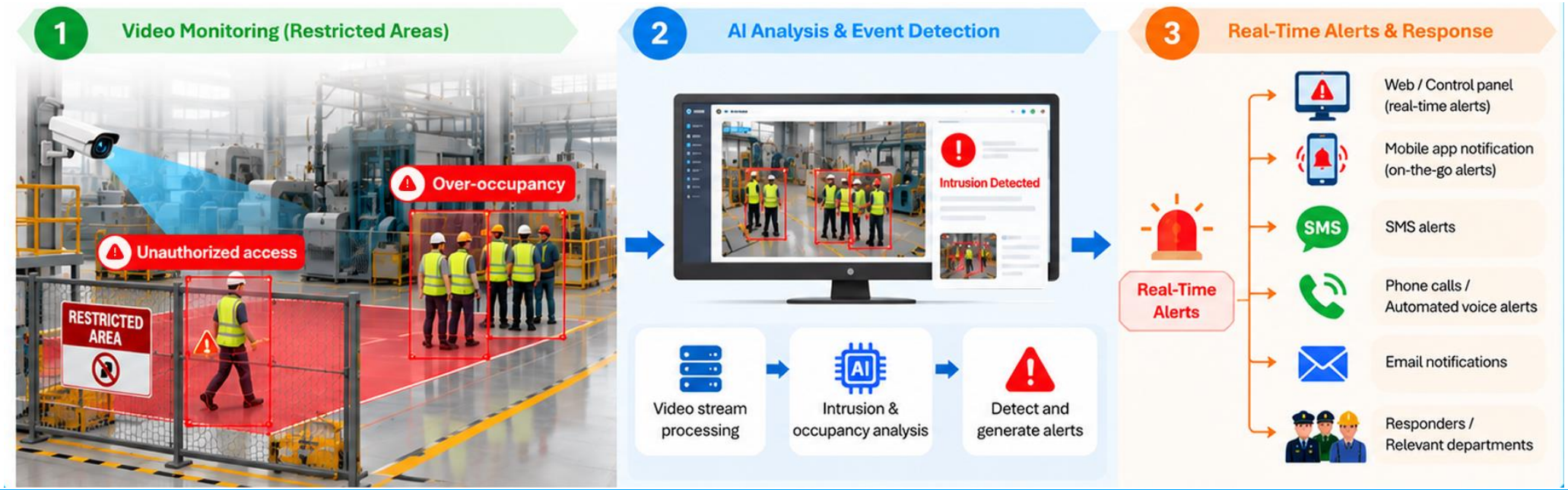
## Target clients

- Building management
- Security service companies

# Solution: Restricted area intrusion detection

**Automatically detect unauthorized access to restricted areas and occupancy limit violations, with real-time alerts for immediate response**

- **Automatic intrusion detection**
- **Real-Time intrusion & overcrowding alerts**
- **Enhanced workplace safety & compliance**




## Applications

- Restricted area access monitoring
- Area occupancy monitoring

## Target clients

- Factories
- Industrial facilities

# Solution: Driver monitoring system

**Monitor driver behavior in real time using AI-powered in-vehicle cameras to detect drowsiness, distraction, and emergency situations**

**Iris eyes detection** | **Hand pose detection** | **SOS signal detection**

**1 In-vehicle camera**
Captures driver behavior in real time



**2 AI analyzes driver behavior**
Detects drowsiness, distraction and risky actions

**AI Model**



Drowsiness detection | Distraction detection | Behavior recognition | Dangerous object detection

**3 Instant alerts & notifications**
Trigger in-vehicle alerts and send emergency notifications

**In-vehicle alert**
Audio warning to driver

**Emergency notification**
Send to fleet management center

**4 Fleet management**
Monitor in real time and take action




## Applications

- Driver drowsiness monitoring
- Driver distraction monitoring
- Driver emergency monitoring

## Target clients

- Transportation companies
- Logistics & delivery companies

# Solution: Personal protective equipment

**Automatically detect PPE violations in real time using AI-powered video analytics and alert supervisors for immediate action**

- Role-based safety monitoring
- Violation reports & analytics
- CCTV and factory platform integration




## Applications

PPE compliance monitoring

## Target clients

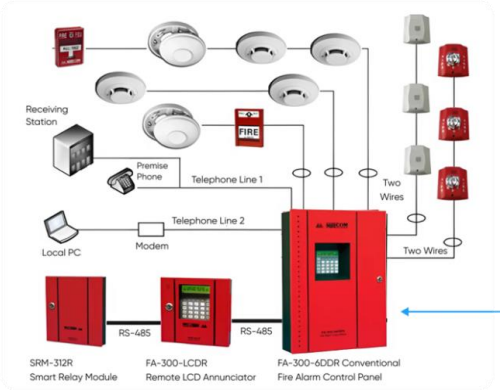
Factories

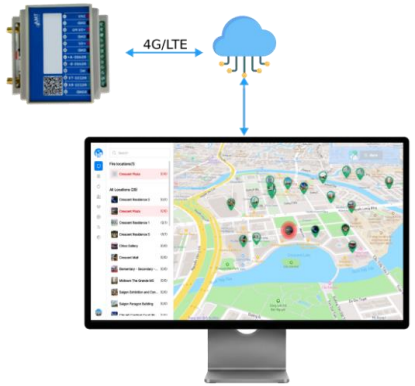
Industrial facilities

# Solution: Fire alarm system monitoring

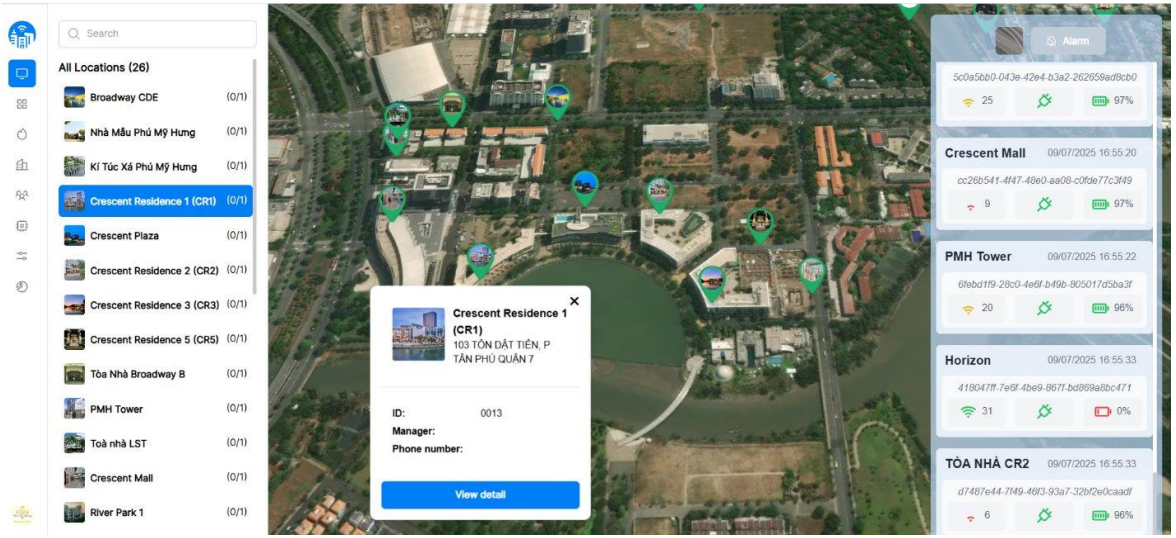
**Prevent false fire alarm by remote monitoring and logging the fire alarm system**

- **Detect smoke, heat in real time using connected sensors**
- **Display fire alarm locations and device health on digital map**
- **Send automated alerts via phone calls, SMS, and mobile notifications**




Existing fire alarm system




## Applications

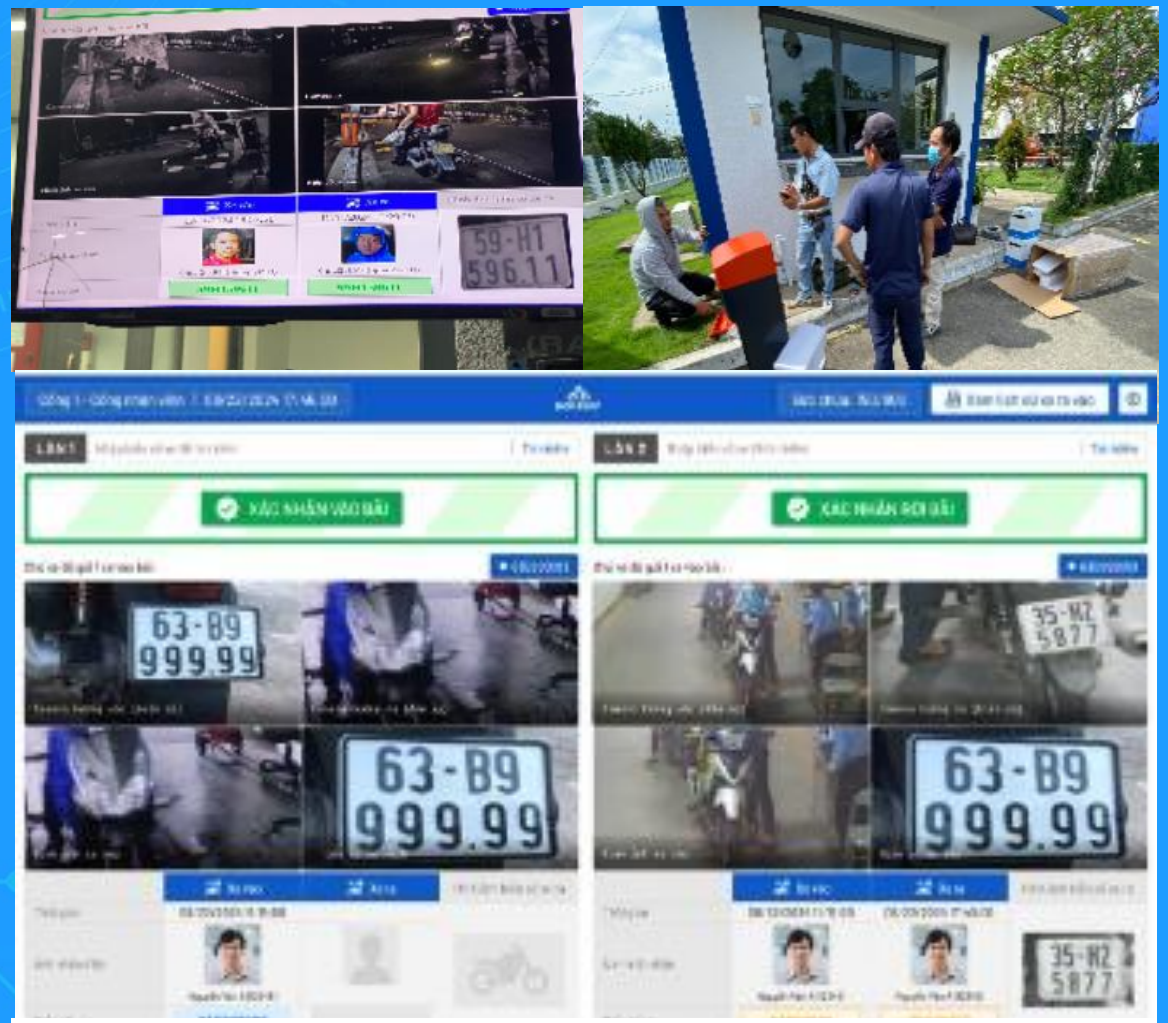
- Fire alarm monitoring
- Industrial hazard monitoring
- Forest fire monitoring

## Target clients

- Residential buildings
- Commercial buildings
- Factories & industrial facilities
- Forestry agencies

# Sample projects

# Sample project: Smart parking solution




**Renesas**
HCMC

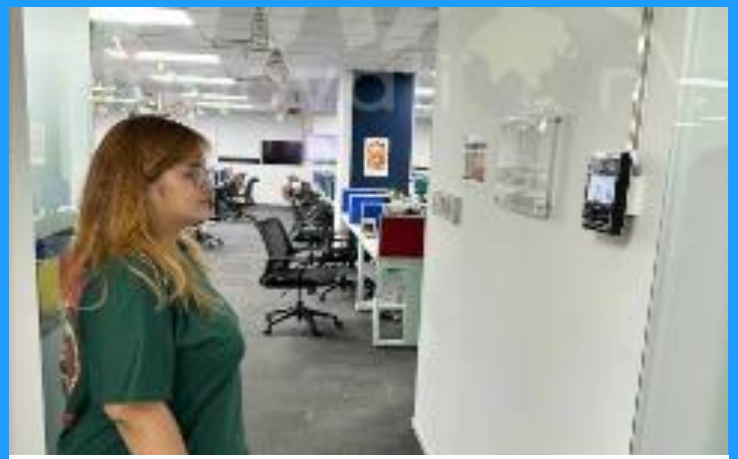


**Vung Tau Beachrock**
Vung Tau

# Sample project: Access control solutions (1/2)



**Renesas**
HCMC



**Concentrix**
HCMC



**Tan Son Nhat Air Cargo Terminal**
HCMC




**Ricons**
HCMC



**Fireland Campina Factory**
HCMC




**QTSC Telecom Tower**
HCMC

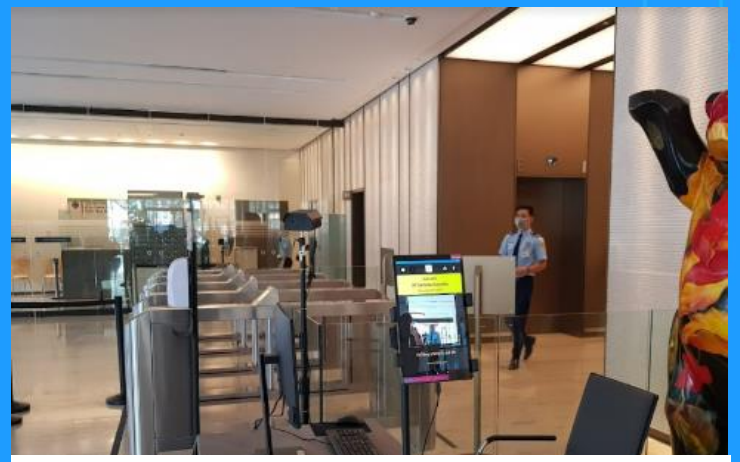
# Sample project: Access control solutions (2/2)



**Indochina Plaza Building**
Hanoi




**Vinhomes Royal City**
Hanoi



**Deutsches Haus Tower**
HCMC



**Dam Vac Golf Course**
Hanoi



**PVFCCO Tower**
HCMC



**Foreign office**
Hanoi

# Sample project: Smart locker solution




**Lotte Mart Westlake**
Hanoi




**Emart Sala Thu Thiem**
HCMC




**Lotte Mart Hanoi Center**
Hanoi



**Lotte Mart Phu Tho**
Hanoi

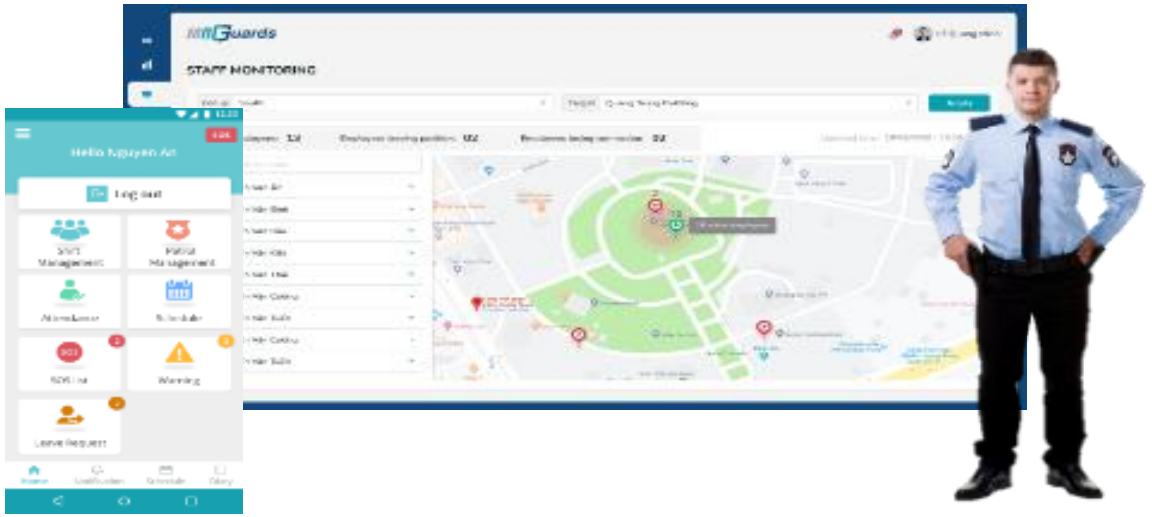


**Smarttech 247**
Hanoi



**Foreign office**
Hanoi

# Sample project: Security & Staff Tracking







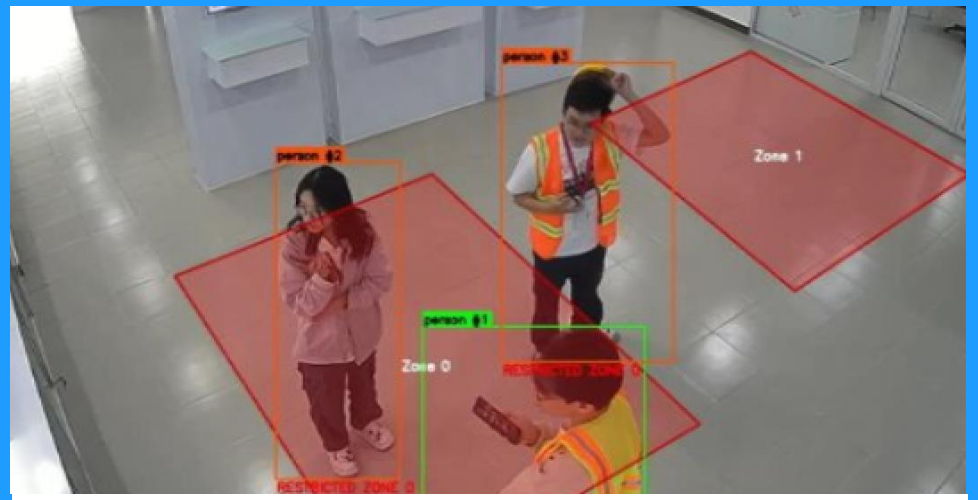

**QTSC, Trang Tien Plaza, Toan Tam Security**

**HCMC**

# Sample project: Restricted area instruction detection

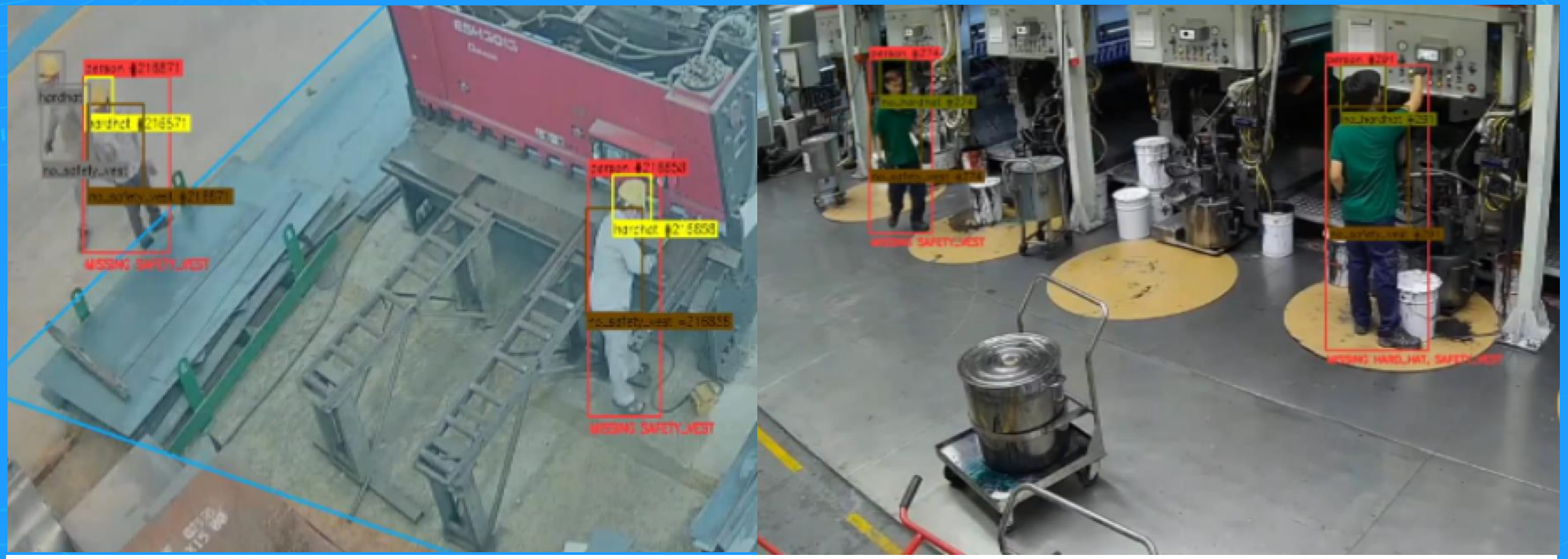


**Tan Thanh Container**
HCMC




**TMA Tower**
HCMC

# Sample project: Personal Protective Equipment



**Tan Thanh Container**

HCMC

# Sample project: Fire alarm monitoring






**Phu My Hung Urban Area**
**HCMC**

# Case studies

# Case study: Integrated Access Control System

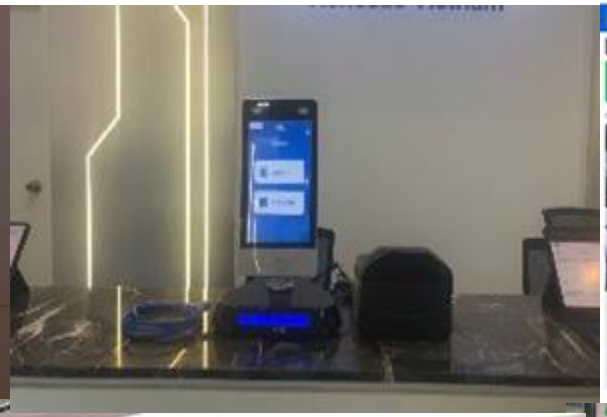
An electronics manufacturing company in Vietnam

Face ID and ID card-based access control

Integration with HRM, VMS, & meal management systems

Reduced manual effort in access control and attendance tracking through automated identification




















# Case study: Integrated Access Control System

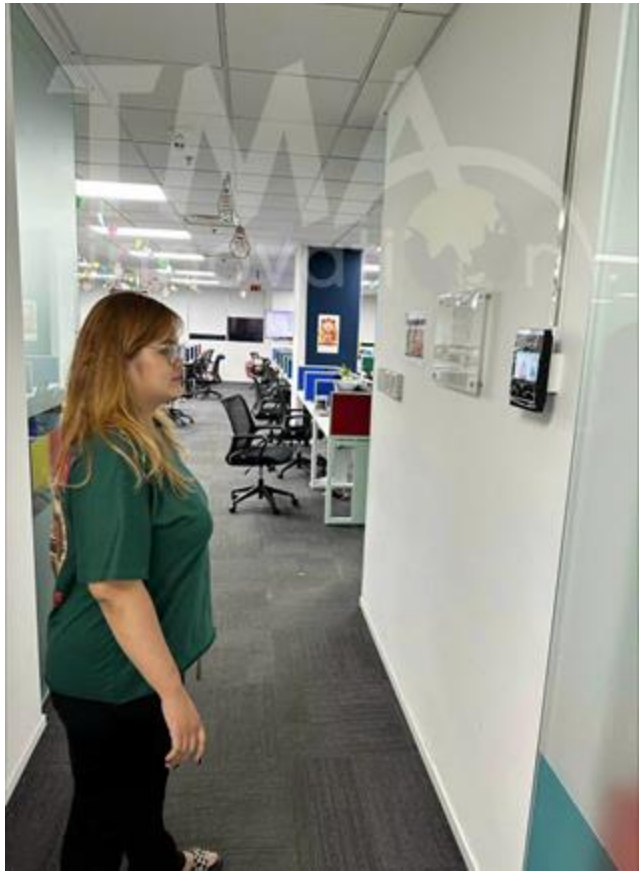
A multinational business services company in Vietnam

Face recognition-based access control

Integration with HRM and VMS

Enabled centralized access control for employees and contractors across industrial facilities



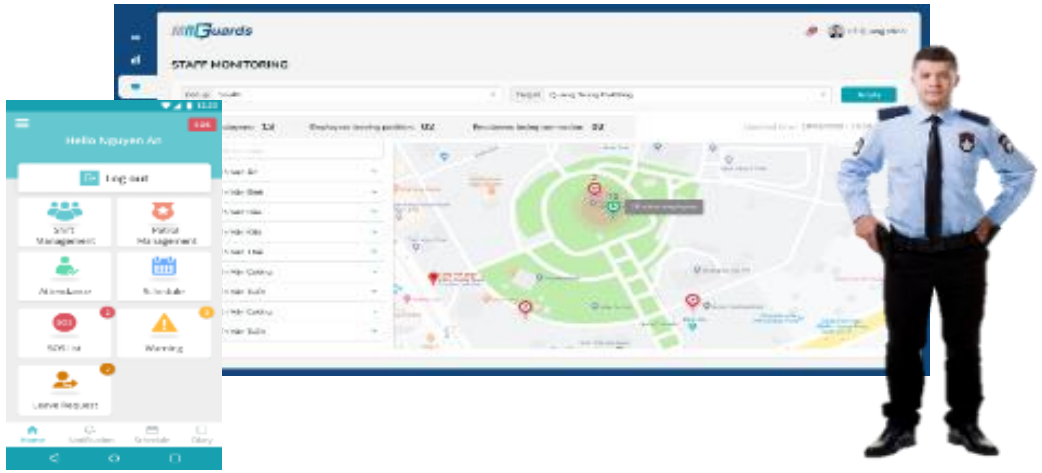
# Case study: Security & Staff Tracking System

A security services company in Vietnam

Facial recognition-based attendance and mobile task assignment.

Real-time location tracking, patrol monitoring, and SOS alerts.

Enabled remote supervision and streamlined staff coordination.







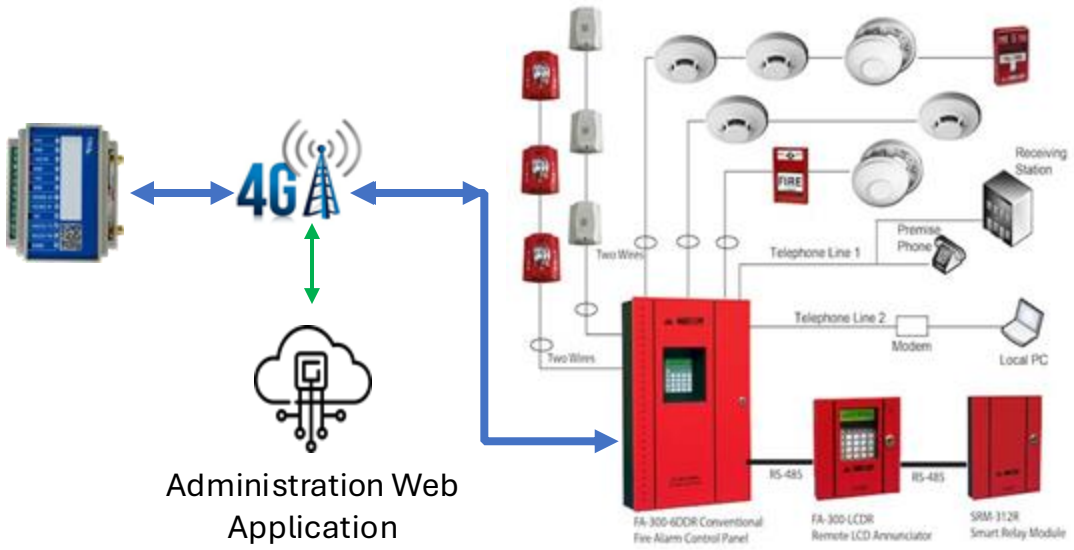

# Case study: Remote Fire Alarm Monitoring System

An urban development project in Vietnam.

4G, Wi-Fi, and LoRa-based fire alarm signal transmission.

Remote device monitoring with digital and 3D maps.

Enabled remote fire alarm monitoring and real-time alerts for faster incident response.








# THANK YOU!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