



Beyond Expectation

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OUR PRODUCTS & SOLUTIONS

3+

Offices

100+

Employees

3+

Business sectors

200+

Customers

4+

Subsidiary companies

ISO 9001 : 2015



VIETNAM'S
50-10
LEADING
IT COMPANIES
2019

VN 50+10 Leading IT
companies 2019

VN Gold star award 2018; 2021



Sao Khue award
2019; 2020; 2021; 2023

Vietnam Value 2022





MESSAGE FROM MANAGER

In light of the recent breakthrough in Vietnam's economy, many cities and urban centers are also making enormous progress, playing a role in illustrating a solid socioeconomic country. At ASTEC Application and Services Smart Technology Corporation, we proudly cooperate with the Vietnamese Business Community to participate in the nation's rapid growth, helping to illustrate Vietnam as a friendly, dynamic, innovative, and sustainable development country.

ASTEC is a dynamic, innovative, enthusiastic, and complete of potential companies working in the business sector, mainly providing telecommunication infrastructures, system and security integration solutions.

Founded in 2002 with people of the same passion, enthusiasm, and ideals, after 20 years of development, ASTEC Application and Services Smart Technology Corporation is currently one of the pioneering businesses in bringing smart solutions and technology, with its main HQs located in the three urban centers of Vietnam, which are Hanoi, Ho Chi Minh City and Da Nang, being the trustworthy address for every customer.

"Beyond expectation" is the main goal that ASTEC always thrives for in every step towards its successive path.



MISSION, VISION AND VALUES STATEMENTS

MISSION STATEMENT



With pioneering aspirations coinciding with a sustainable development investment plan, ASTEC's mission is to become one of the leading companies in Vietnam and extend to neighboring countries in providing advanced and smart technology solutions. ASTEC firmly believes that it will create enduring values reflecting the intellect and enthusiasm of its staffs.

VISION STATEMENT



Actively contributing towards the development of the society. Creating an ideal working environment to improve the quality of life for staffs, focusing on the investment and evolvement in people, therefore improving the quality of the employees in creating the optimal products, namely the advanced and smart technology solutions, to our customers.

VALUES STATEMENT

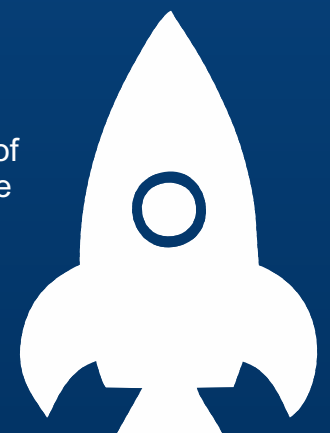


We aim towards positive values, which are the primary purposes of ASTEC development. In any circumstances, such spirit would always be maintained to accelerate towards ASTEC's goals in recent times.

Value of people: Human is the core asset and factor to initiate the sustainable development of the company.

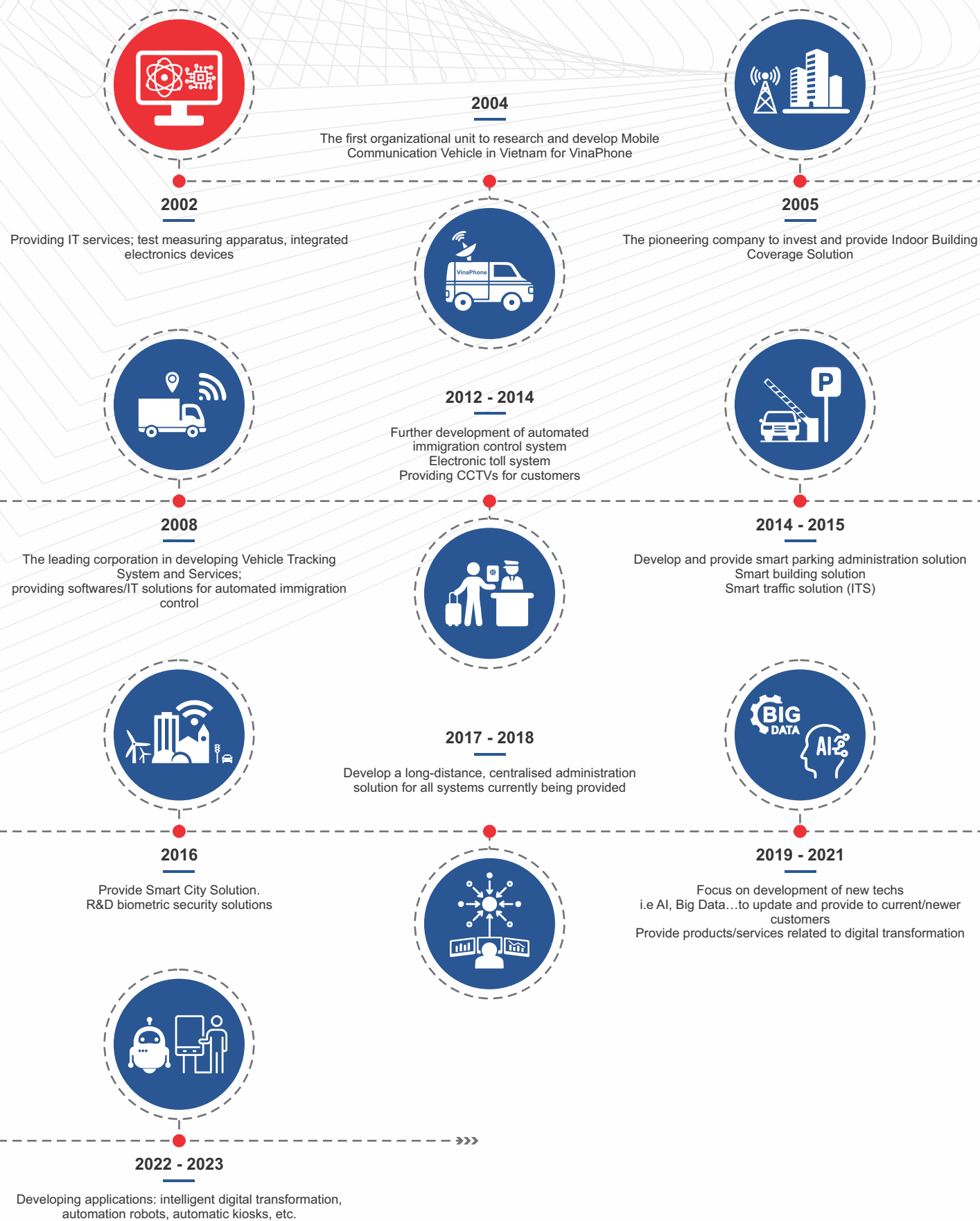
Teamwork and sincerity: consistency in every thought, word, and action, listening to objective ideas, caring for teammates, and prioritizing sincerity.

Discipline: thriving to improve oneself, always aiming to achieve the highest goal to bring out the most beneficial values.





DEVELOPMENT PROGRESS



ORGANISATIONAL CULTURE

Beyond dedicating to work, each member of ASTEC Co. has the freedom to express their strength. The philosophy behind ASTEC managers is each individual is a piece in the jigsaw to form a complete, strong-bonded image of a leading organization.

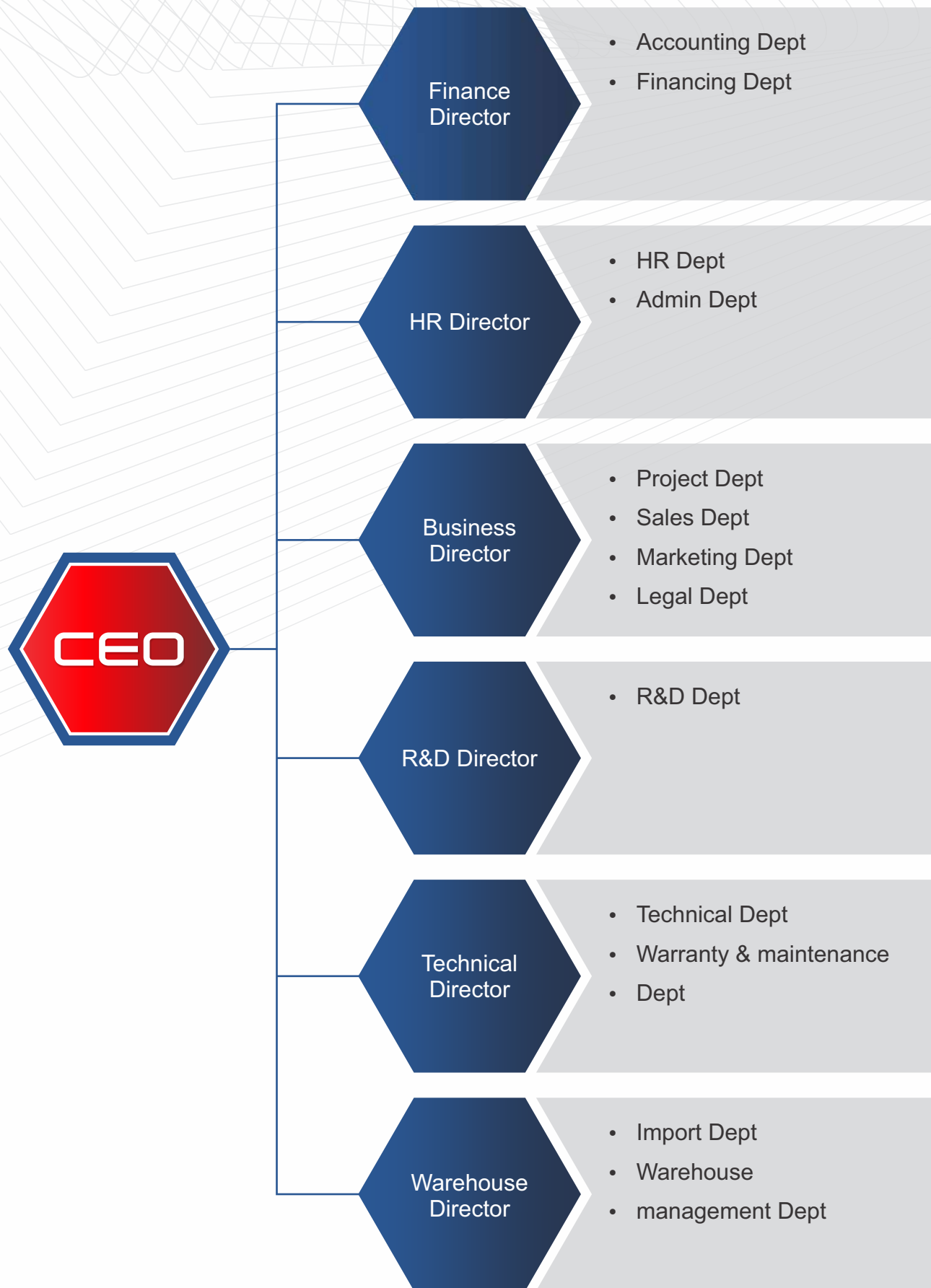
The executive board focuses on each individual's connection by organizing monthly or quarterly team-building activities. It is a golden opportunity for employees working in three different parts of the country to engage in outdoor activities and participate in various activities for business growth.

Besides, various training sessions also play a significant role in easing the stress accumulated after work and help maintain a high work efficiency of our employees. From the first day of ASTEC Co, many sporting clubs, such as men/women football and camping teams belonging to healthcare activities of ASTEC employees, were founded, with a great number of participants still to this day.

Multiple events in building connections via celebrating one's birthday, International Children's Day, and Mid-Autumn Festival for the younger family members of the staffs are held annually. Year End Party is a great occasion for all employees working in different parts of the country to come to the main HQ in Hanoi to conclude long activities and a chance for each individual to participate in the Gala Dinner.



ORGANISATIONAL STRUCTURE



NOTABLE ACHIEVEMENTS

2012
Certificate for ASTEC Applications and Services Smart Technology Co. in achieving notable success in business and production

2017
Certificate for ASTEC Applications and Services Smart Technology Co. in achieving progresses in the production emulation

2018
Top 200 Viet Golden Star award

2019
Automated immigration system was nominated as the notable product of the programming field, of Vietnam's telecommunication services and Sao Khue award
Top 50 + 10 pioneering businesses in telecommunication services
Field: programming, telecommunication solutions and services
Emulation flag from the People's Committee for the best performance corporation in 2019

2020
All-in-one entrance pass was nominated as the notable product of the programming and Vietnam's telecommunication services and was nominated for Sao Khue award

2021
Contactless entrance pass system - anti-COVID 19 was nominated for Sao Khue award 2021
Top 200 Sao Vang Dat Viet award

2022
Contactless security and access control solution is recognized by Vietnam Value



NOTABLE SOCIAL CONTRIBUTIONS

By understanding the power of giving, the ASTEC community always aims towards the most beneficial social values by contributing to the annual charity events such as "Ao am cho em" (donating clothes to the less-fortunate) or participating in rice ATM, in medical face mask, and Vietnam Fund for Vaccination Prevention of Coronavirus Disease 2019 (VFVC) donation in 2020-2021, and multiple charity trips via donating to Hanoi Business Association organization.



BAN THƯỜNG TRỰC ỦY BAN MẶT TRẬN TỔ QUỐC VIỆT NAM THÀNH PHỐ HÀ NỘI

TIẾP NHẬN ỦNG HỘ

CÔNG TÁC PHÒNG CHỐNG DỊCH BỆNH COVID-19 LÀ 5



NOTABLE PARTNERS & CUSTOMERS

CUSTOMERS

 DEFENSE MINISTRY	 FINANCE DEPT DEFENSE MINISTRY	 DEPT OF OPERATION DEFENSE MINISTRY			
 MARITIME POLICE DEFENSE MINISTRY	 BORDER GUARD COMMAND DEPT	 POLICE DEPT	 IMMIGRATION DEPT	 INTERNAL POLITICAL AFFAIRS DEPT POLICE DPT	 PROFESSIONAL TECHNIQUE DEPT POLICE DEPT
 HIGH COMMAND OF GUARD POLICE DEPT	 PEOPLE'S SUPREME PROCURACY	 HANOI POLICE DEPT	 HCM CITY POLICE DEPT	 HANOI PEOPLE COMMITTEE	 HCM CITY PEOPLE COMMITTEE
 VIETNAM'S NATIONAL BANK	 MINISTRY OF HEALTH	 VIETNAM NEWS AGENCY VOICE OF VIETNAM	 MOBIFONE	 AIRPORTS CORPORATION OF VIETNAM	 TECHCOMBANK
 VIETCOMBANK	 VIETINBANK	 VP BANK	 DOJI CORPORATION	 TNG CORPORATION	 DAI QUANG MINH CORPORATION
 BIM GROUP CORPORATION	 NIKKO HANOI HOTEL	 MOVENPICK HOTEL HANOI	 PULLMAN HOTEL HANOI	 INTERCORN HOTEL HANOI	 SHERATON HOTEL NHA TRANG

NOTABLE DISTRIBUTORS

 IDEMIA (France)	 Automatic Systems (Belgium)	 Cominfo (Czech Republic)	 NICE (Italy)	 TagMaster (Sweden)
 Desko (Germany)	 Geutebruck (Germany)	 HID (USA)	 Mobotix (Germany)	 Ncorium (USA)
			 Ribbon (USA)	

PARKING CONTROL SYSTEM SOLUTION



KEY FEATURES:

Control all vehicles entering – and leaving large venues, notably parking areas, shopping centers, office services complexes, hospitals, schools, and harbors efficiently. The Ultrasonic sensor technology via map assists in administering all parking systems.

MAIN MECHANISMS:

Managing data of vehicles entering – and leaving daily weekly, or monthly intervals.
 Provide information on the numbers and locations of vacant parking slots.
 Provide direction to available spaces.
 Provide parking slot location to quickly identify upon leaving.

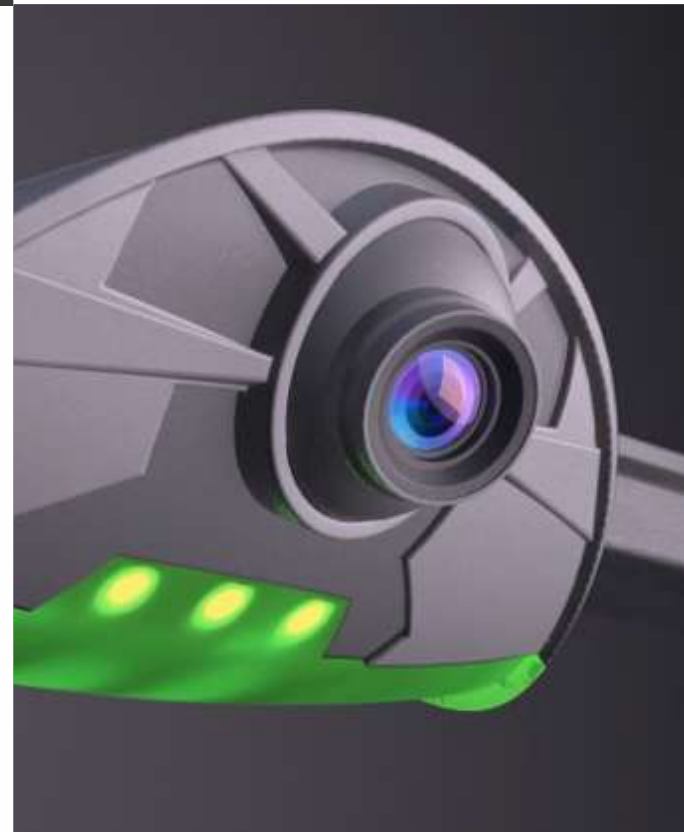
VACANT SLOT NOTIFICATION & AUTOMATIC PARKING, IDENTIFYING VEHICLE VIA CAMERA SOLUTION

KEY FEATURES

- A combination of smart control system and camera to provide efficiency for vehicle entering –leaving at parking areas and different venues such as shopping centres, office complex, hospital, harbour etc.
- For vehicle entering: providing information and guiding drivers to a valid, vacant parking slot.
- For vehicle leaving: providing information on vehicle location and guiding towards the exit efficiently.

MAIN MECHANISMS:

- Giving guidances on vacant parking slots via the camera system, LED indication and information provided on mobile app for the drivers.
- Providing vehicle identification via image to customers for checking vehicle in case of invalid parking or sudden impact etc.
- Assisting in optimal cost – manpower balancing for parking administration.





SOLUTION FOR SECURITY: ENTRANCE PASS

KEY FEATURES:

A security system regulating personnel and vehicles upon entering – leaving the buildings, apartments, offices, industrial zones, schools, hospitals, banks etc by providing multiple solutions in the assembling site:

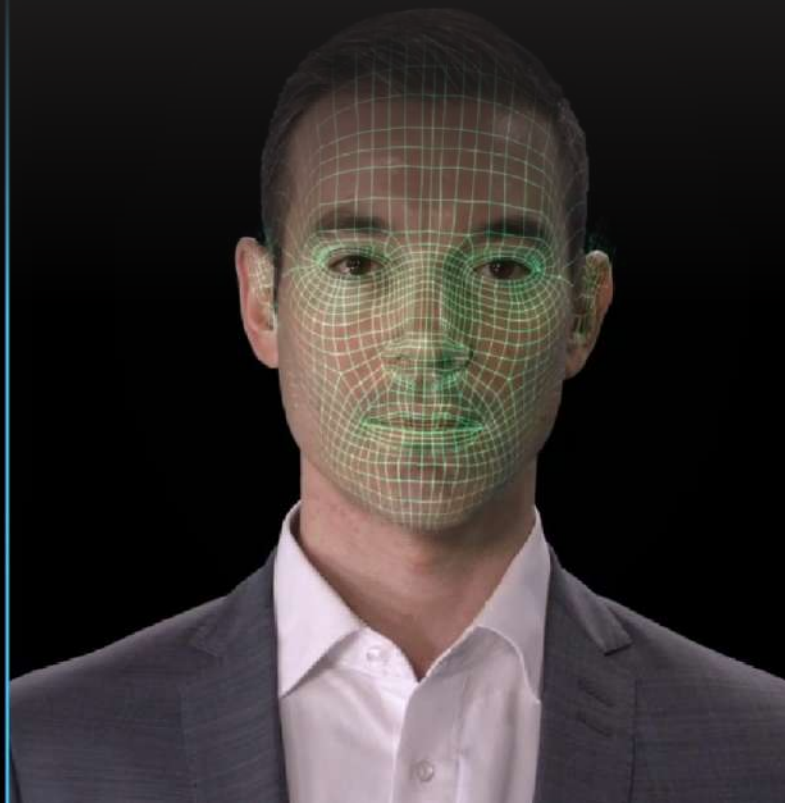
- Recognition by ID systems.
- Prevent trespassing.
- Assist in aerial security control.
- Automated body temperature control.
- Timekeeping integrated within office block...

ADVANCED EQUIPMENT, INNOVATIVE TECHNOLOGY

- Implementation of flap barriers.
- ID device: ID card/ fingerprint / face recognition/ 3D fingerprint.
- Integrate with body temperature measurement device.
- Integrate with automated elevator operating devices.



ADVANCED
2D / 3D / INFRARED CAMERAS
IMAGE PROCESSING
POWERED BY A.I.





ALL - IN - ONE CARD SOLUTION

Provide management solution for all systems integrated within an AIO card for greater administration and identification of the services used within a venue such as:

- Smart urban centres
- Within a series of properties managed by the investor.
- Office services – residence – shopping centre – amusement centre complexes...

INTEGRATABLE SERVICES

- Card access/ entrance pass system
- Elevator access control
- Bus pass
- Parking ticket
- ID card access at sporting venues: Swimming pool, GYM
- Allow transactions for services connected to ID card.
- Unlimited access Membership card to different venues within the area of management of the investor.

GYM,
POOL

BUS
SERVICE

ACCESS
CONTROL

ELEVATOR
CONTROL

PARKING
SYSTEM



ALL IN ONE CARD



BMS BUILDING MANAGEMENT SOLUTION

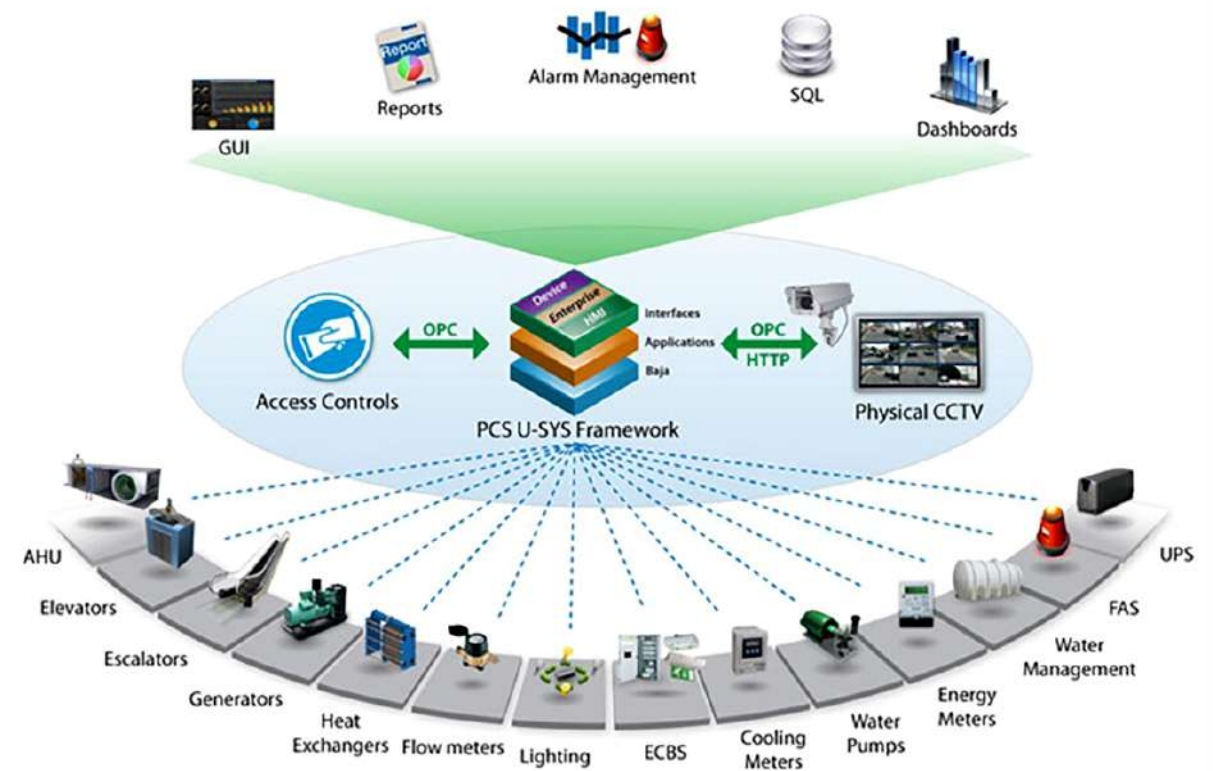
Guarantee a good working condition and high efficiency for the in-building equipment

BENEFITS OF UTILISING IN-BUILDING TECHNICAL SYSTEMS MANAGEMENT:

- Time-saving and reduce operational costs as well as optimise working conditions for inbuilding equipment...
- Better administration for optimal operating costs and parameters.
- Timely intervene in fixing in-building technical errors.
- Provide solutions to a third-party organisation to improve administration.

CONTROL AND MANAGE IN-BUILDING TECHNICAL SYSTEMS SUCH AS:

- Electricity system
- Domestic water usage system
- Air conditioner (cooling and heating) system
- Energy management
- Water consumption management
- Lighting conditions
- Environmental management system
- Elevator control
- Generators and power stations.



DOMOTICS AND SMART OFFICE SOLUTION



Improve the quality of life. The system allows direct access and control remotely to residential electrical appliances and devices via smartphone, tablet or smart home control panels.

CONNECTABLE DEVICES:

- Smart appliances (windows blind, lighting, entrance door/gate, automated gardening pump...)
- Smart control for the surroundings environment (dust, temperature, humidity, GHG etc)
- Smart security system control (surveillance camera, fire hazard and gasleak warning...)
- Access to other smart control devices (via voice or gesture or via smartphone etc)

IP VIDEO INTERCOM SOLUTION

KEY FEATURES

Provide to luxurious venues with multiple benefits:

- Guest identification via smart lock
- Allow direct communication to guest via touchscreen panel.
- Real-time face recognition: differentiate between home owner and guest for suitable course of reactions.
- Smart panic buttons requesting immediate help and intervention from the building management committee.
- Allow no disturbance mode.

TECHNOLOGY USED

- High-definition and wide coverage IP camera
- 2 – wire connection
- High-definition multithread media and image processing.
- Integrated Face ID technology
- Integrated Mobile App for users



AI SURVEILLANCE CAMERA SOLUTION

Research and development of AI for surveillance cameras to improve control for essential areas for Smart City, in which real-time face and behavior recognition allows the security unit to identify and take action on a potential threat swiftly.

APPLICATION:

- Factories
- Industrial complexes
- Smart City
- Smart traffic control



CCTV – SECURITY AND SURVEILLANCE CAMERA SOLUTION

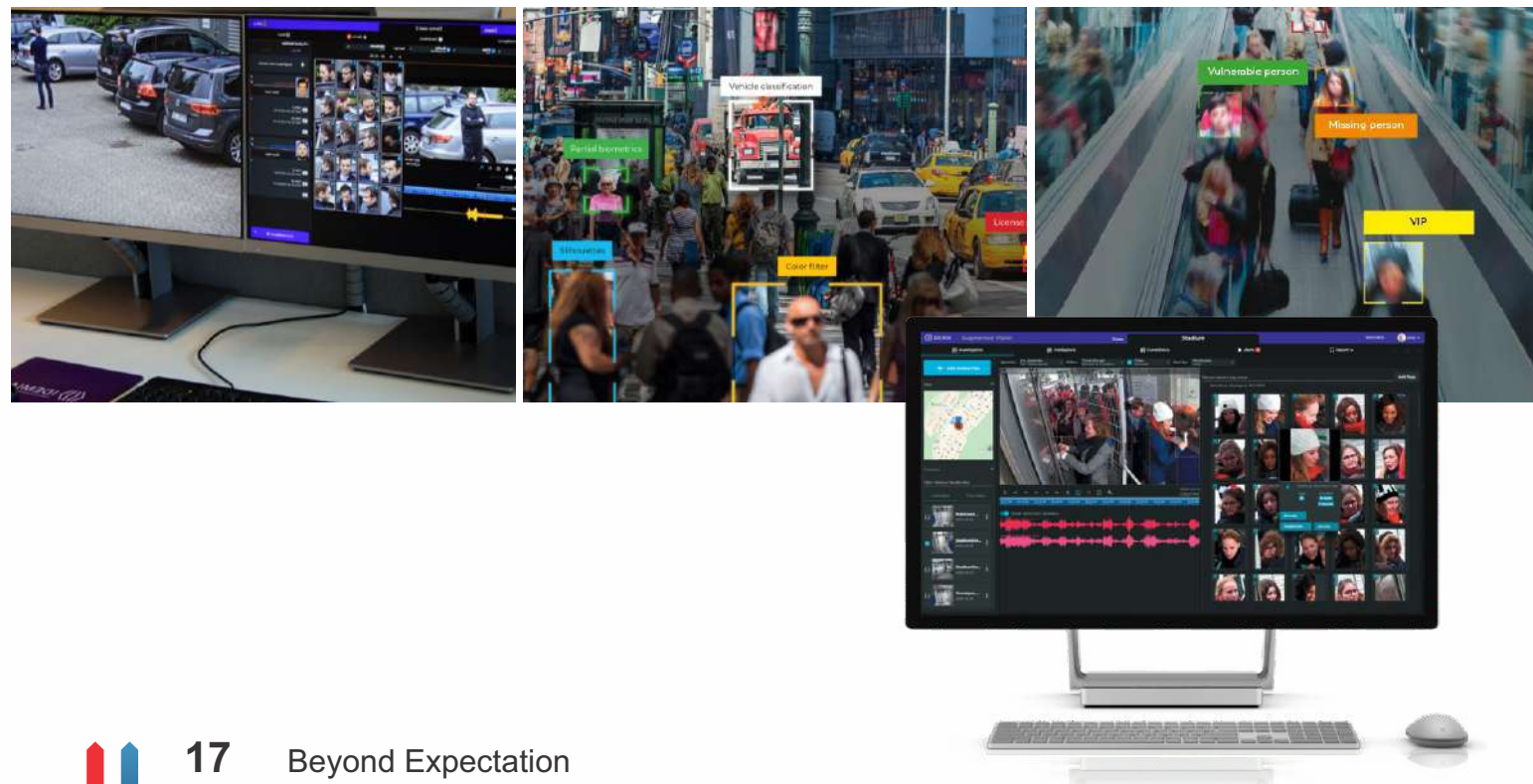
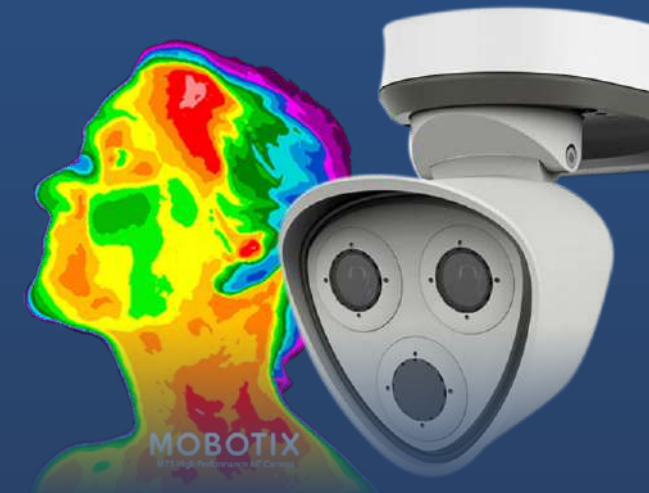
KEY FEATURES

The assembly of surveillance camera system at residential areas, office complexes, hospitals, industrial zones, banks and shopping centres to improve the security and surveillance:

- Minimise criminal activities.
- Greater security control and swiftly identify abnormal behaviour, possibility of criminal threat and action...
- Timely locate and take action against potential fire hazard or accident...
- Guarantee the safety of the residences,
- Protect and prevent damages/theft against the property
- Provide legal evidence if necessary...
- Improve security and surveillance in limited access areas...
- Lower assembly costs...

UTILISING ADVANCED TECHNOLOGIES

- High-definition IP camera
- Smart IR
- WDR, LPR
- ROI (region of interest)
- DC-Iris, ICR, 2D/3D DNR
- Defocus, Scene Change, Object Left, Object Moving...
- Thermal sensor, Radar, IR...



INBUILDING SYSTEM SOLUTION



SMART TRAFFIC CONTROL SOLUTION

This utilises a combination of electronic and electrical, information and telecommunication electronic technology to improve traffic control and other related activities, such as monitoring its operation, thus optimising its efficiency, assuring the consistency of the traffic. The solution connects information and telecommunication electronic technology, establishing a network for smoother control of traffic flow on the motorways.

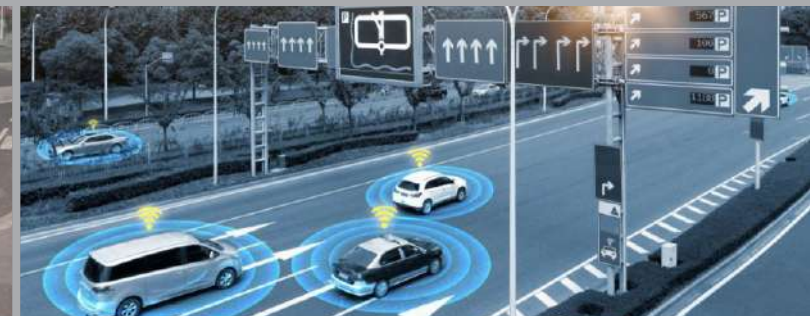
SOLUTIONS PROVIDED INCLUDING

- Security camera system
- Traffic enforcement camera system
- Traffic signs.
- Traffic control centre
- Integrated automatic with one-stop toll payment system.



IBS system (Inbuilding System) is a system that helps enhance mobile waves in high-rise buildings thanks to passive distributed antenna devices that improve wave quality in high-rise buildings.

The IBS system maintains the quality of mobile subscriber calls at high-rise buildings, underground works, airports, train stations, seaports, industrial and service parks, hotels...



INFRACTION FRANCHISSEMENT DE FEUX ROUGES			
ETT	ETT00005	AXE	Quai Louis Pasteur
CSA	00937	INTERSECTION	Quai Louis Pasteur/Rue Humann
DATE	15.05.2018 19:36:59.7	DIRECTION	Est
DFR	2.5 s	VILLE	(67000) Strasbourg



DIGITAL TRANSFORMATION SOLUTION

- Integrate all biometric recognition in one such as facial, fingerprint and iris recognition, citizen identity card, QR code, OCR, ID card and e-signature etc.
- Solution for application in banking industry, hospital, insurance, administrative units and transaction services etc.

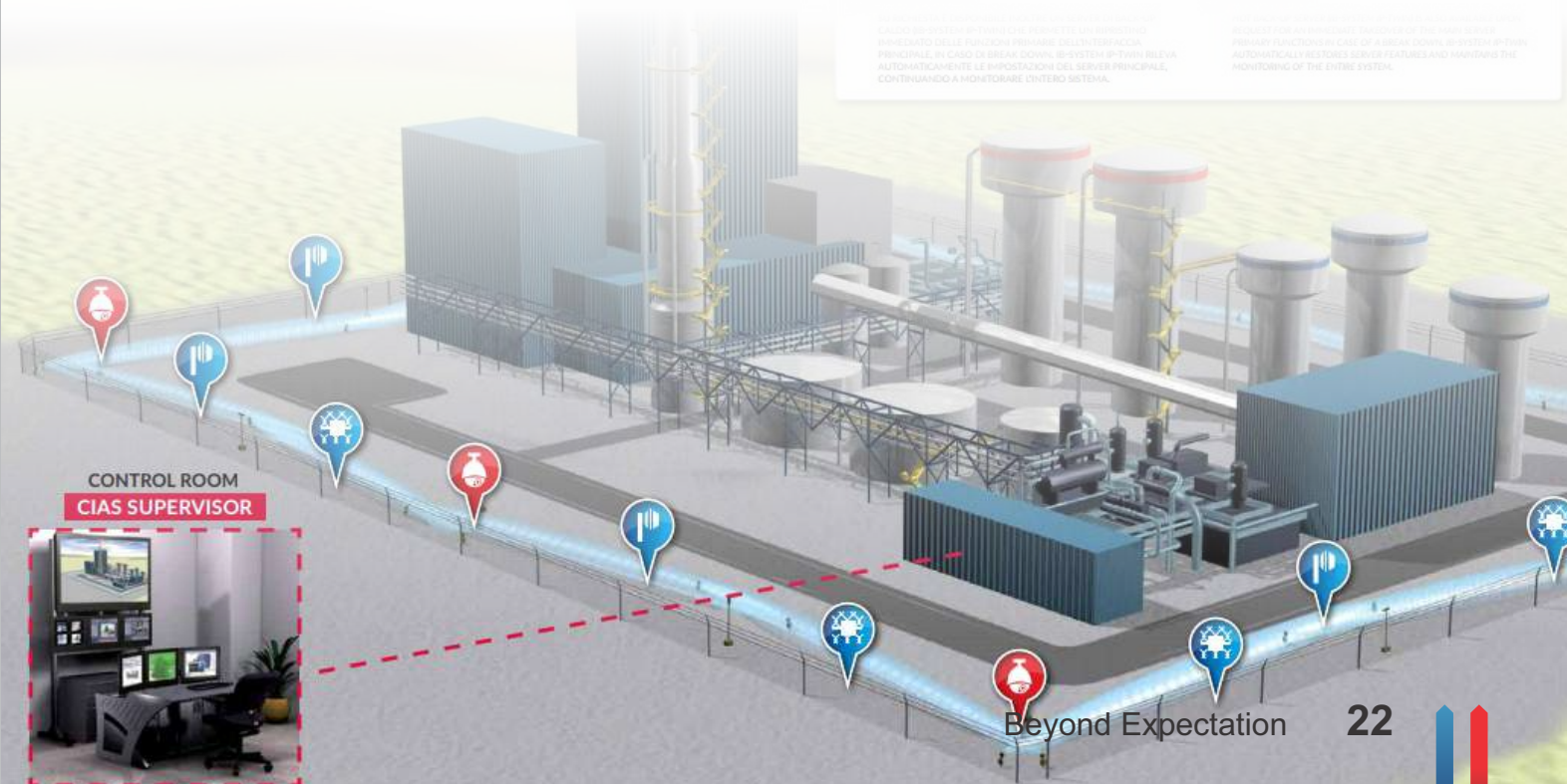


SECURITY SOLUTION FOR INDUSTRIAL ZONE

Security and safety solutions for factories provide a unique security monitoring system for the entire workshop and factory area, meeting all monitoring requirements to ensure security safety and prevent incidents and risks.

THE SYSTEM INCLUDED

- Vehicle entry and exit control: Installed at the entrance and exit gate of the factory area with automatic barrier cards to limit uncontrolled vehicle entry and exit and congestion at the parking entrance area. Equipping additional security cameras helps identify license plates and vehicle owners to determine property risks.
- Image sensor and fire notification system: With a camera integrating two sensor eyes, color sensor image up to 6MP, thermal imaging sensor with sensitive detection up to 50mK (1/20 degree Celsius), Real-time thermal image monitoring of machinery overview, very high sensitivity to temperature changes, giving accurate temperature indication. It supports early warnings for possible incidents, such as fires and explosions.
- Time attendance and entry control equipment: The system integrates additional time attendance and entry management equipment for workers at factories and industrial parks, with many workers stored by fingerprints and magnetic cards. , eye lenses with a quick and accurate process help manage and monitor objects entering and exiting and avoid possible intruders.
- Controlling entry and exit in particular areas: The system uses biometric technology to help recognize faces and magnetic cards to monitor security in unique rooms such as accounting server rooms... to help limit Limit risks in case of unauthorized intrusion, avoid database loss, information leakage, and loss of assets.

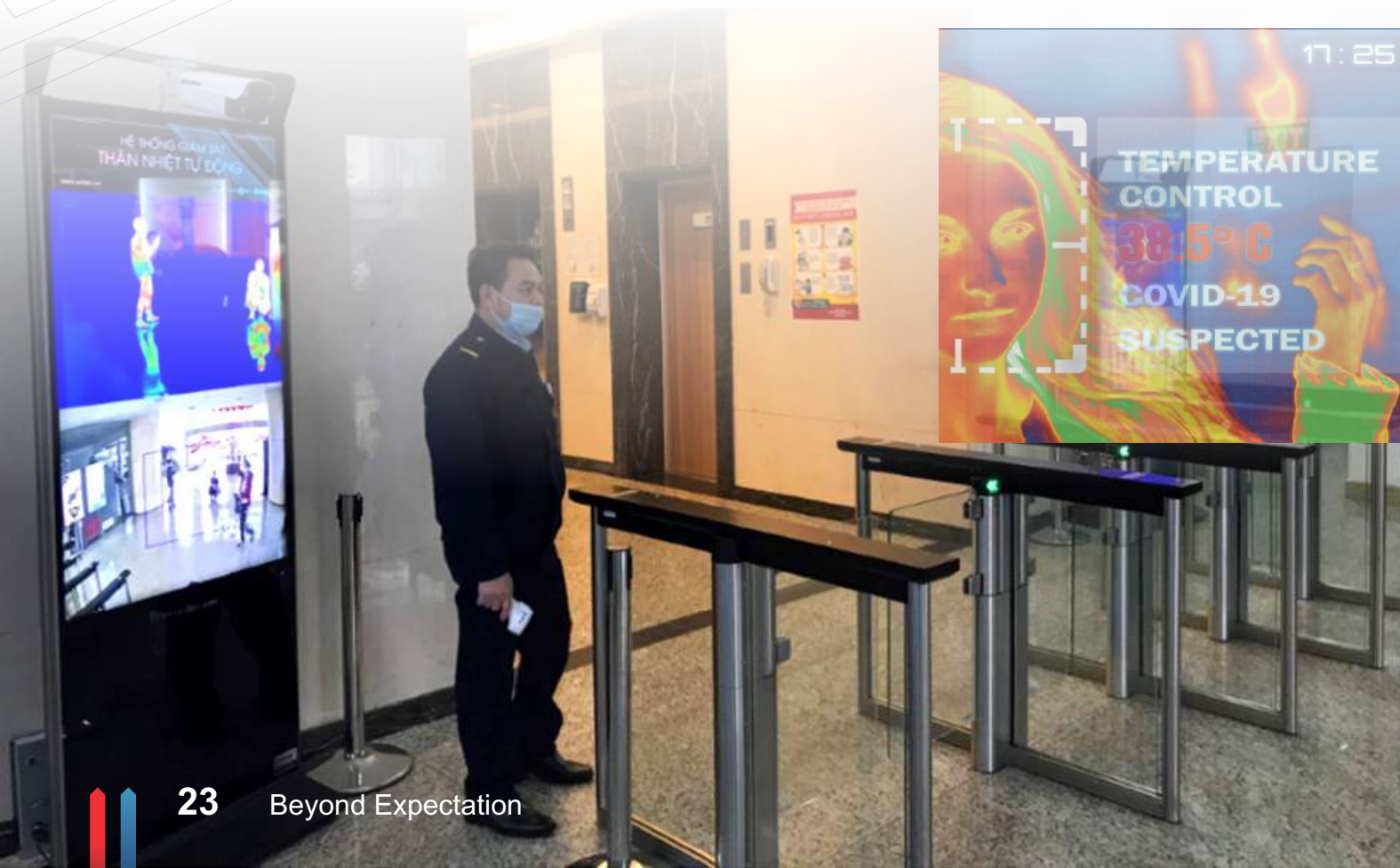


MEASURING & MONITORING BODY TEMPERATURE SOLUTION

Provide contactless temperature measurement, via a panel integrated with sensor, of people entering – leaving a venue to prevent the spread of viruses.

This solution utilises camera sensor technology with an error margin of +/- 0.5 °C, +/- 0.3 °C (for Black Body). Details of body temperature measured would be projected onto a 55-inch screen, with the main panel being split into different sections allowing for multiple measurements to take place. Besides, there would be a small section on the panel for advertisement purposes.

- Mechanisms of automated body temperature regulator
- Calibrate the set point temperature as human's normal body temperature, then the system would automatically take measures of people entering and leaving the area.
- Identify abnormal body temperature and notify via sound and image displayed on the screen.
- Able to perform meticulous statistical analysis of abnormal body temperature cases (lower/higher than set point value), actively assist in curbing the spread of disease



AI ++ DIGITAL SIGNAGE

Vertically mounted interactive touchscreen with advanced technologies applied, and it is an alternative to a multitude of advertisement media such as pano, poster, banner...

APPLICATIONS:

- Train stations and airports
- Hotels and shopping centres
- Office and industrial complexes
- Trade fairs and exhibitions
- Elevator lobbies and movie theatre
- Hospitals and cosmetology centres

FUNCTIONALITY:

- Assist in formatting image, media, video and documents...
- Enable different images, time and slideshow.
- Able to adjust different effects: brightness, contrast, colour, sharpness, backlight, noise abatement and multiple video slideshow.
- Able to rotate at 90° up to 270°, at the same time able to support vertically mounted LCD.
- Integrated with Android 11, featuring multipoint touchscreen
- Support USB, WIFI, LAN connection...



ROBOT AI ++ SOLUTION

These robots are born to serve and help people with automatically programmed operations. Essential functions such as self-service, automatic delivery, food delivery, automatic disinfection, automatic pulling, upgrading, lowering, picking up, moving, loading and unloading goods, classifying goods, and increasing hygiene help people save maximum time.

CUSTOMER RECEPTION AND GUIDANCE SERVICE ROBOT

• Robot MiniBot

It is a "2 in 1" service robot that receives and guides customers to display advertisements on the screen. This information robot can replace a receptionist or service staff to search and interact with customers at hotels, restaurants, supermarkets, product showrooms, etc.



• Patrol robots

Automatic patrol and security monitoring: The robots can overcome many obstacles, replacing humans to explore dangerous terrain, patrol, protect, and monitor security.



DELIVERY ROBOT, FOOD DELIVERY

• Robot eating protocol

All customers need to do is click on the dish they want on the touch screen, and the robot is expected to deliver without interacting with any staff.



INDUSTRIAL ROBOT

• Self-propelled robot AGV

Automation in manufacturers, such as packaging and moving large quantities of goods, helps replace manual vehicle applications such as forklifts, hand trucks, and trailers. They are applied in production lines, assembly lines, e-commerce warehouses, and logistics.



• Robot Arm (The robot's arm)

A type of mechanical arm that can operate independently or be a more complex component of a robot. It can rotate or move to perform operations like an arm. These robots are applied in factories, manufacturers, and supporters.



• Industrial floor cleaning robot

This automatic robot performs the task of cleaning and mopping hard and dirt floors. It can be applied in Hospitals, Schools, Airports, Convention Centers, Entertainment Venues, Sports Areas, Theaters, Museums, Factories, and Industrial Parks.



SELF-SERVICE KIOSK SOLUTION

This allows the customers to perform transactions 24/7 on Sim card purchase, automated check-in/check-out at the hotel and airport, at the amusement centre and administrative formalities.

Kiosk can simply be installed anywhere and in any professional fields (airport, hotel, telecommunication provider organisation, business and finance institutions, administrative centres) with advanced recognition technologies:

- Face ID
- Biometric details recognition
- QR Code, read information about identity of the chip located on the citizenship card or passport
- Online transaction...

BENEFITS OF THE SOLUTION:

- Service automation
- Improve customer's experience
- Reduce unnecessary contact, curb the spread of SARS-COV 2
- Minimise and replace the presence of transaction assistants
- Help business to reduce expenses and increase sales revenue
- Flexible and continuous operation (24/7)
- Provide different customisable services





SOLUTION FOR HOSPITAL



The integration of advanced technologies assists in optimising medical examination and treatment procedures of healthcare centres such as:

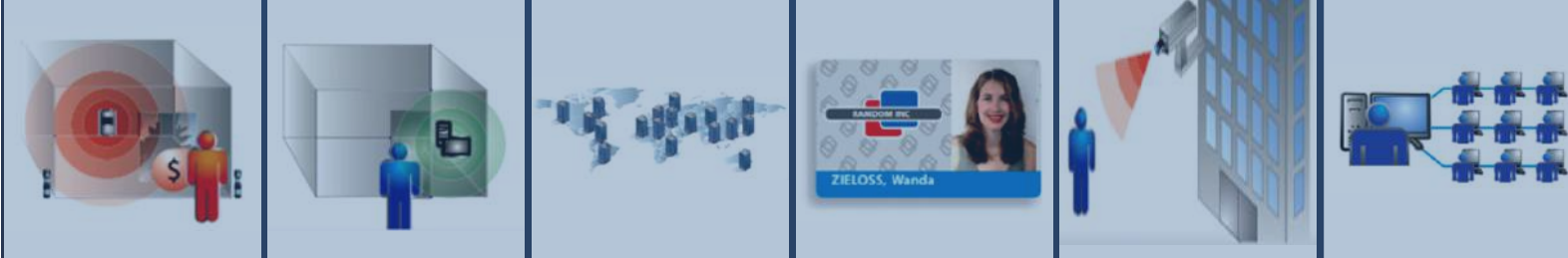
- Reduce check-in processing time
- Increase the utility for the customer & patient
- Improve the efficiency of healthcare regimen
- Refine the overall quality of service.

KEY MECHANISMS:

- Managing medical examination and treatment procedures
- Allow booking via apps/online.
- Kiosk check in and registration, assist in automatic queueing and guiding procedures
- Patient information management system
- Biometric check-in
- Service evaluation system
- Patient monitoring and emergency call system...



SOLUTION FOR EDUCATIONAL INSTITUTIONS



This solution is a fine mesh between applications of advanced technologies and flexible softwares developed correspondingly to each institution demands. It is helpful for the schools in managing their pupils data, as well as allowing the parents to follow the information of their study progress

KEY ADVANCED TECHNOLOGIES APPLIED:

- Entrance pass, lecture registration and monitoring timetable
- Surveillance camera monitors inside and around the school perimeter
- Library management system
- Smart personal locker system
- Robot system – automated medical examination and monitor
- Teacher/lecturer and CNV management system
- Manage pupils information (grades and progress) at inter-level, administer different educational institutions



YUBIKEY - ONLINE ACCOUNT SECURITY LOCK SOLUTION

YubiKey is a 2FA 2-layer authentication physical device that allows users to log in to their online accounts safely and simply.

MAIN FEATURES:

- Exceptionally secure with multi-factor authentication.
- Fast, and reliable, plug in the YubiKey and tap to unlock without re-entering the code.
- Unlimited accounts: one key can work instantly with hundreds of systems.
- Supports your login to Windows and Mac, Gmail, Dropbox, Facebook, Salesforce, Duo and other services.
- YubiKey can protect more than 700 applications worldwide.

YUBIKEY LINE:

1. YubiKey 5 Series – World's #1

Secure YubiKey 5 Series Security Key protects accounts using multi-factor solid authentication

- Prevent account hijacking of Gmail, Binance, Facebook, Microsoft, Dropbox and hundreds of other services
- Supports many protocols: FIDO2/WebAuthn, U2F, Smart Card, OpenPGP, OTP
- Diverse connections: USB-A, USB-C, Lightning and NFC
- Dust and water-resistant to IP68 standard

2. YubiKey Bio Series

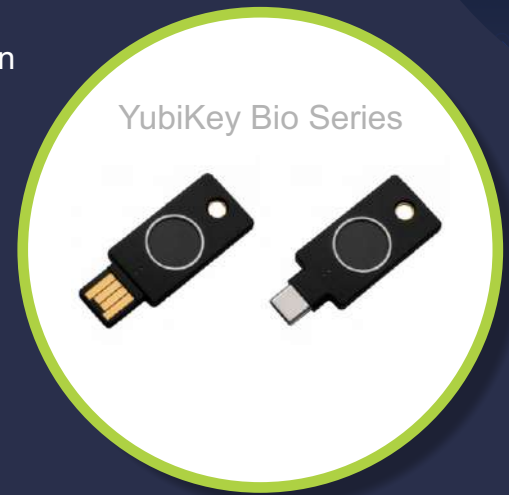
Combine Yubico's robust security features with biometric fingerprint authentication for password-free login.

3. Security Key Series:

The Security Key standard product line is a safe, economical online account protection solution that combines hardware-based authentication, the public key, and U2F and FIDO2/WebAuthn protocols.



YUBIKEY 5 SERIES
Multi-factor authentication



YUBIKEY BIO SERIES
Biometric authentication



SECURITY KEY SERIES
Online account protection based on hardware, public keys, and U2F and FIDO2/WebAuthn protocols

