AGILECORE

Innovation Day Q2 2024

28 June 2024 (Friday)
12:00 – 17:00pm
Ocean Room, 1/F, Mandarin Oriental, Macau

N.◦945, Avenida Dr. Sun Yat Sen, Macau, China

Opening Up New Frontier of Facility & Security Management with AI

Technology Partners:

(By alphabetical order)

Supporting Associations:

(By alphabetical order)

Agenda

Time	Programme	Speakers
12:00 - 14:00	**Registration, Buffet Lunch & Technology Corner Visit**	
14:00 – 14:15	Opening - How Data Centric AI Driven management help you in facility & security management?	**Alex Kwan (SQX)** **Charles Qi (AgileCore)**
14:15 - 14:30	Digital Twin Engine - supporting AI operation and maintenance	**阎晨 (Qmap)**
14:30 - 14:45	Hyper-Realistic AI Digital Employee - Challenges and opportunities in improving your operation.	**吴靖仇 (Next Human)**
14:45 - 15:00	Electricity Safety and Management Enhancement Solution - The technology & trend, and latest application in occupational safety & other applications	**Jack Sun (AgileCore)**
15:00 - 15:45	**Coffee Break and Technology Corner Visit**	
15:45 - 16:00	Security Operation Management - With smart & integrated access control & surveillance system in smart campus, smart construction & smart data centre	**Simon Chow (SQX)**
16:00 - 16:15	Robots - how it assist in security & facility management.	**Eddy Lee (AgileCore)**
16:15 - 16:30	Augmented Reality - how it enhance the customer experience in your premise.	**Benny Hung (MALLSHOW)**
16:30 - 16:50	Panel Discussion – What is the challenges and opportunities of AI application in security & facility operation?	Moderator: - Alex Kwan Panellist: - Angus Ho - Jack Sun - Harold Lin
16:50 - 17:00	**Lucky Draw and Closing**	

Speakers & Panelists

In the alphabetical order of the family name, and, is subject to final confirmation before the Innovation Day.

Mr. Simon Chow
Sales Director
SQX

Mr. Benny Hung
CEO
MALLSHOW

Mr. Alex Kwan
General Manager
SQX

Mr. Eddy Lee
CSMO
AgileCore

Mr. Charles Qi
COO
AgileCore

Mr. Jack Sun
Advisor (Energy)
AgileCore

Mr. Wu Jingchou
Founder & CEO
NextHuman

Mr. Chen Yan
CEO
QMap

AI Centric Data Driven Management Platform

- From Proactive to Predictive

SQX

Collect & Store (IT & OT)

- Tailored, Managed Sensors
- Smart MCB
- Credentials
- Video Metadata
- Geospatial Metadata
- Robot
- Sensors, GPS, RFID, Barcode

Connectivity

- AllGo
- Cellular
- Wired & Wireless
- Bluetooth
- LoraWan
- Zigbee

Collect | **Connect**

AGILECORE

Interact | **Process**

Interaction

- Visual
- Audio
- Augmented Reality
- AI Chatbot
- Etc..

Data Processing
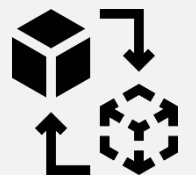
- Video Database
- 3D Modelling
- Digital Twin
- Relationship Database
- Realtime Database
- Data Mining
- Parallel World
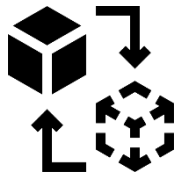
Digital Twin

Web SCADA GIS Expert

- 100% Independent R&D
  - From backend to display

Unique Advantage

- Light Weight (60MByte)
- Compatibility
  - GIS + BIM + IOT
  - Revit, FBX, 3DMax, DEM etc..
- Realistic display
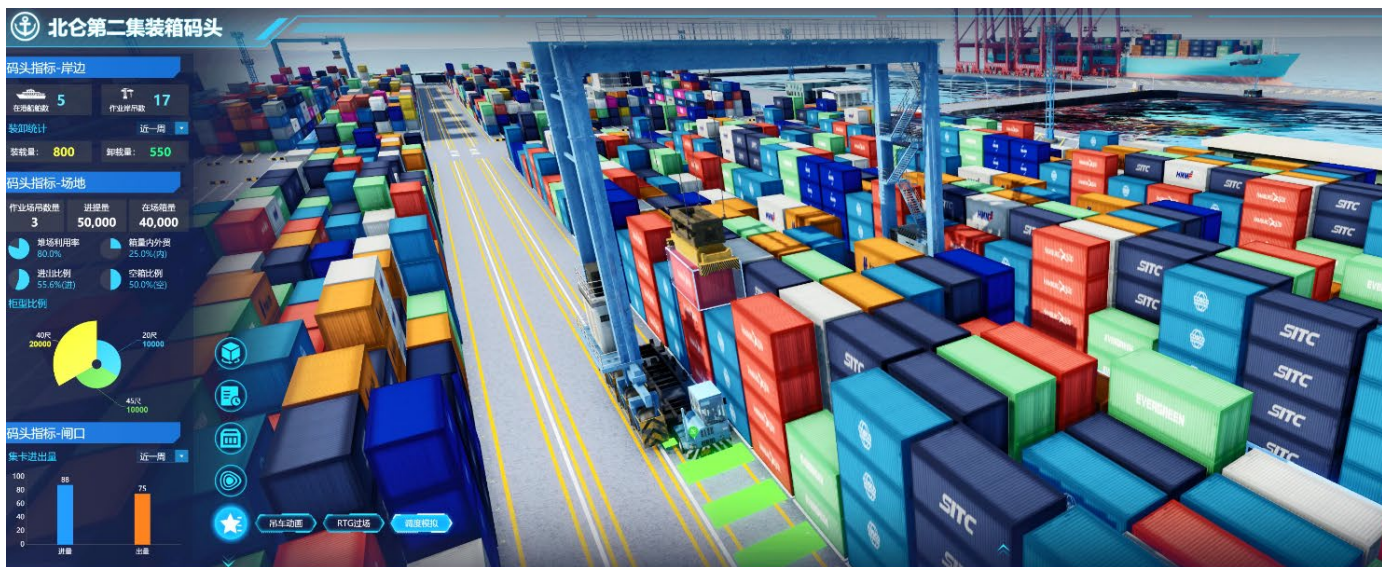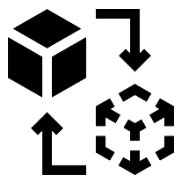- Realtime and scalable
  - 100k / second
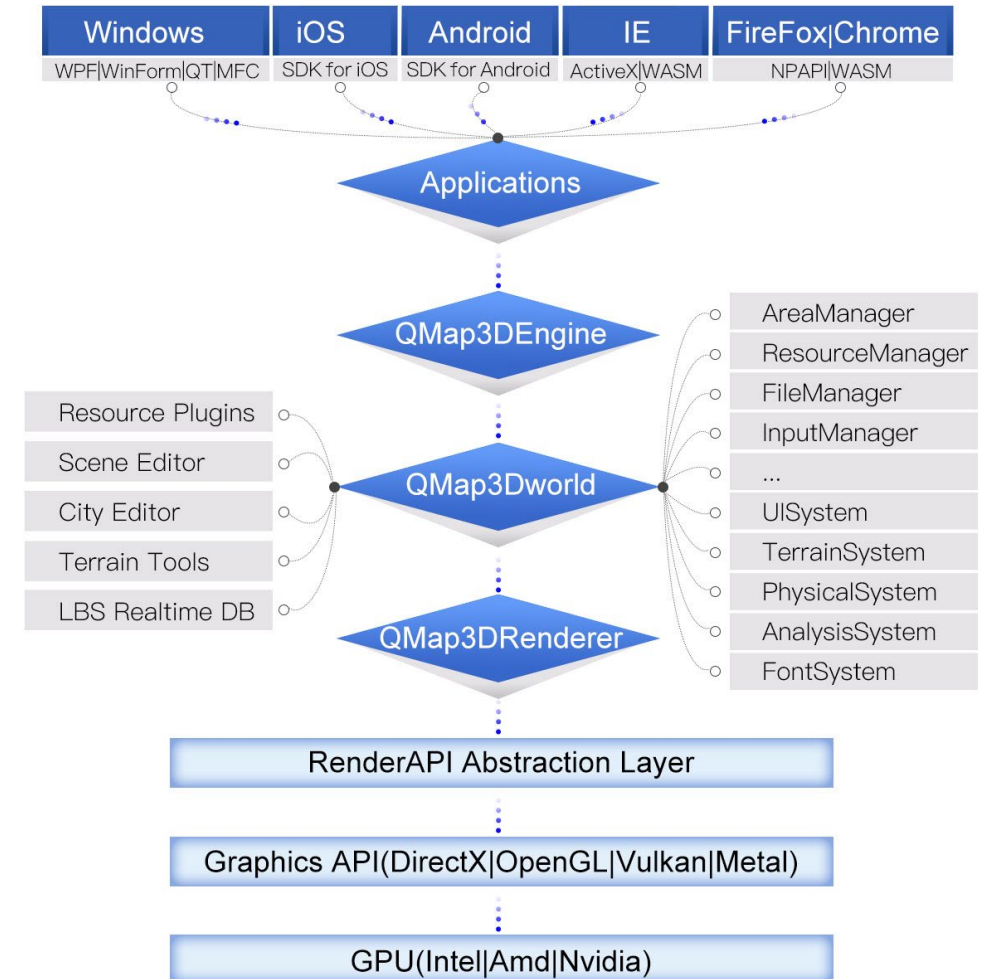
Scalable Realtime & Citywide

- Citywide 100k plus km2 area coverage
- Supporting 100k plus fast & dynamic object realtime update & display
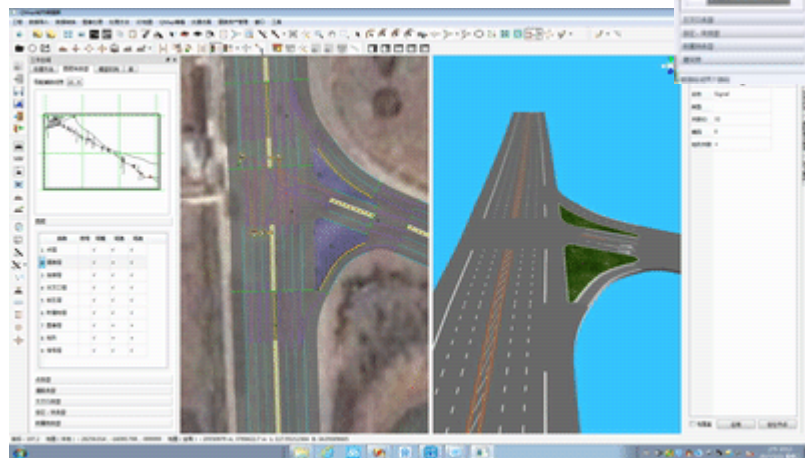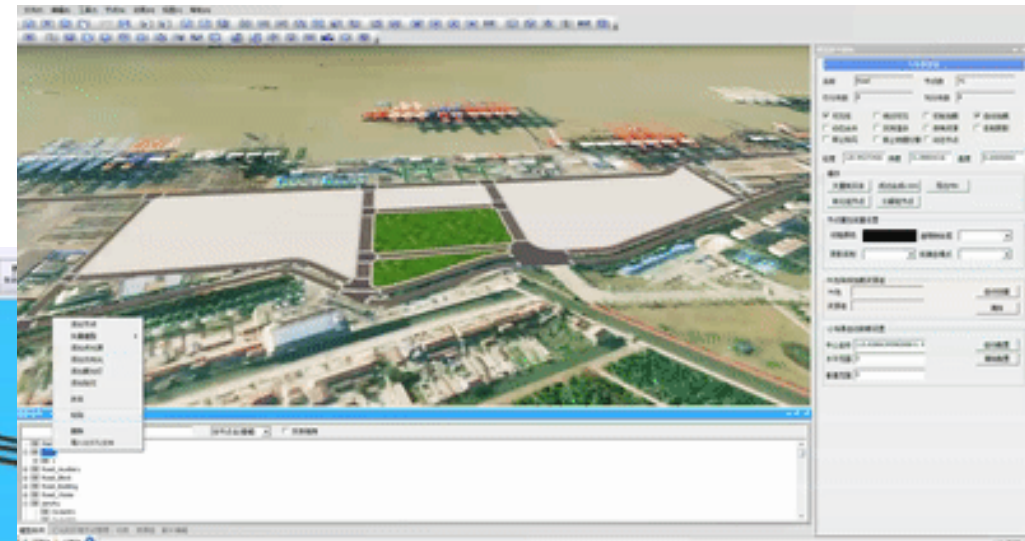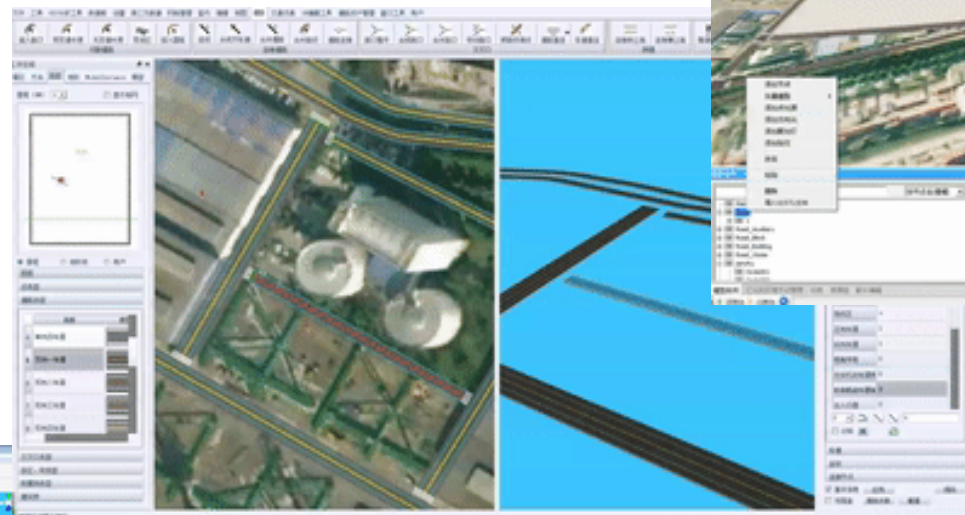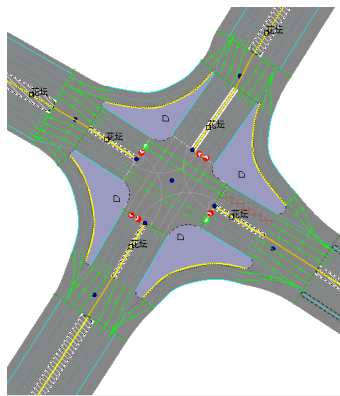- Supporting 100k plus light source rendering.

3D Model editing

Quick Editor

- Efficient 3D Modelling
- Different editing model like city, campus, road and rural etc..

Road Topology

- Based on automatically generated 3D road network models, road topology can be created and edited through parameter settings.
- This includes roads, medians, sidewalks, streetlights, traffic lights, and more.
- The created roads possess complete topological information, enabling the rapid construction of urban transportation networks.

Hyper Realistic AI Concierge
Interaction Experience like a human

AGILECORE

Personal Interact Languages Training

Real Emotion Expression

Body Languages

Personalize Voice and Environment Expression

Support conversational voice and face recognition

AI Concierge

Hyper Realistic AI Concierge
Interaction Experience like a human

Human voice recognition algorithm

Can effectively lock speakers in noisy public environments

Facial recognition technology

It allows AI Concierge to recognize people and bring them a familiar and cordial interactive experience

Scenario based training

Allows AI Concierge to be trained for languages or dialects, and, for scenario.

Link up to management platform

Link up to live database for productive machine & human interaction.

未来前台

NEXTHUMAN

Safety Enhancement
- Electricity Leakage Suppression

- Design with our own R&D team
  - Harmonic suppression, to suppress leakage far beyond fatal level
- Suppression performance compared with RCCB
  - ~5 times better in response time
  - ~8-10 times better in maximum leakage (current)
- Minimize uptime of operation
  - In case of circuit fault, equipment can still be in operation.
  - Prevent fatality and fire.

Electricity Leakage Suppression Units

220 Vac

380 Vac

Leakage Current Capture

- Effectively absorbs the leakage current from electrical appliances to prevent the risk of electric shock and reduce damage to electrical appliances.

Surge Suppression

- Effectively suppresses the surge current generated by the power grid, captures and suppresses high currents, accelerates grounding discharge, and reduces damage to electrical appliances.
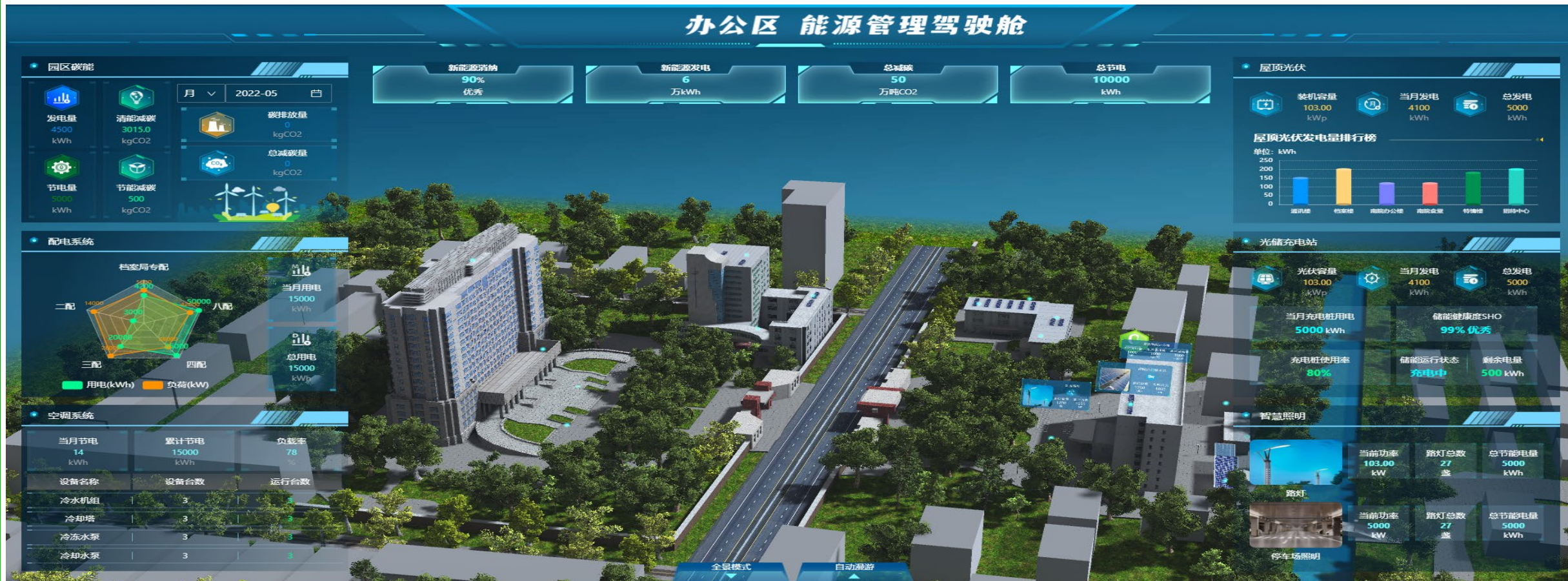
Electricity Leakage Suppression

- Effectively suppresses the generation of harmonics, electromagnetic waves, and static electricity in the electrical circuit, purifying the power grid environment and reducing energy consumption.

Load Return Drainage

- When electrical appliances experience leakage due to moisture, it prevents the leakage current from flowing into the water body. Instead, it absorbs the leakage current and redirects it back to the power supply circuit for re-use, thus saving energy. It ensures that electrical appliances continue to function even in emergency situations where they may come into contact with water.
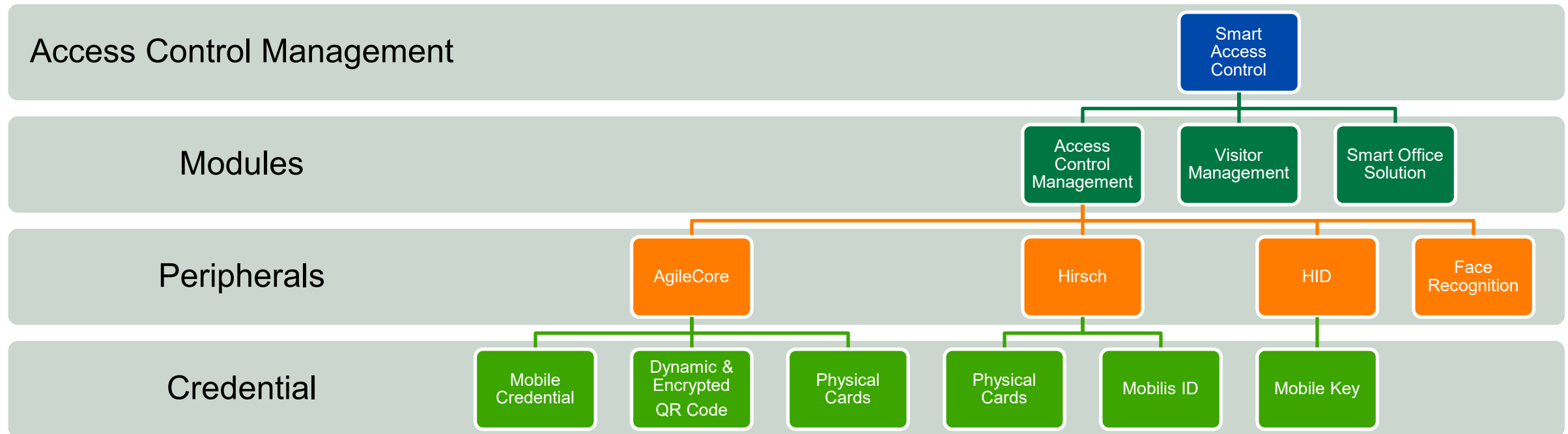
Energy & Carbon Emission Management

河南省委办公园区能源管理平台

Smart Access Control

Access Control Management		Smart Access Control
Modules		Access Control Management · Visitor Management · Smart Office Solution
Peripherals		AgileCore · Hirsch · HID · Face Recognition
Credential		Mobile Credential · Dynamic & Encrypted QR Code · Physical Cards · Physical Cards · Mobilis ID · Mobile Key

All-in-one Reader – VC Series

- 125kHz, 134,2kHz 13.56MHz
- Dynamic & Encrypted QR Code
- Wallet Pass (NFC)
- Bluetooth (BLE)
- Many others physical cards
  - Cardax
  - Mifare
  - Deister
  - Isonas
  - Legic
  - IDTeck
  - Sony FeliCa
  - Miro
  - Nedap
  - Calypso
  - Topaz
  - ...

Finger Vein

Reliable & Scalable

SQX

Connectivity	• 20,000+ video channels in single cluster • Multiple clusters in federation
Searching	• Petabyte Class Searching in seconds • 1 Billion+ Picture Searching in seconds • 10 Million+ Directory Searching in seconds
Application Resilience	• Application resume within 180 seconds maximum
Recording Resilience	• Recording failover to other cluster within 10 seconds • Recording interruption caused by application failure is less than 40 seconds
Transcoding	• Single server transcoding of 80 channels of 1080p H.265
Recording Storage	• Single server records 1200 channels of 4Mbps video stream

AgileCodec
- AgileCore Smart Codec

Standard H.265

码率：3459kbps

Various Smart 265 Codec

码率：2685kbps

AgileCore Smart Codec

码率：1469kbps

AI Driven Dynamic Analysis to save more than 50% storage

Original Video

AI Pixel Level Layering

Detailed ROI Dynamic Analysis

Background Filtering with accurate object classification

H.265，4K/1080P

Moving Object

Static Background

Object & Background Fusion for encoding

Clarity unaffected to human eye, and to video analytics engines.
No Video Quality Loss,
and is still with **H.265 codec compliance**

Patrol Management (SaaS)

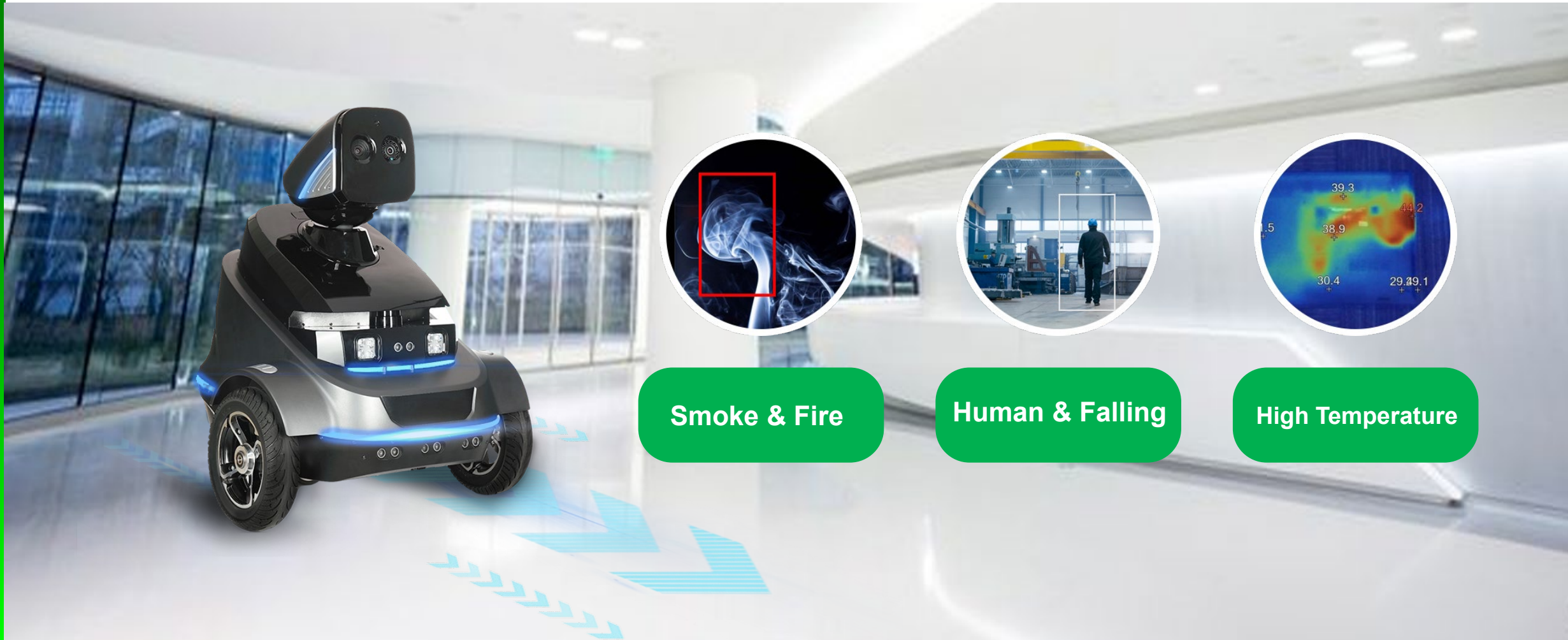# Patrol Robot

Indoor – Patrol

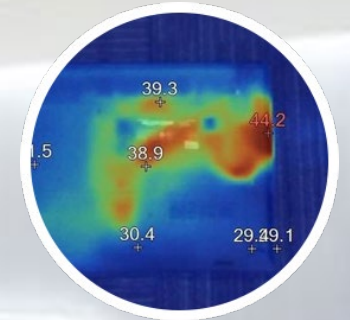Outdoor – Patrol (Preview)

AI Enabled Robot

Dual Vision Robot (Thermal and Normal)

Smoke & Fire

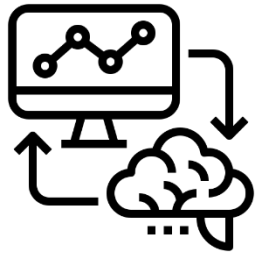**Human & Falling**
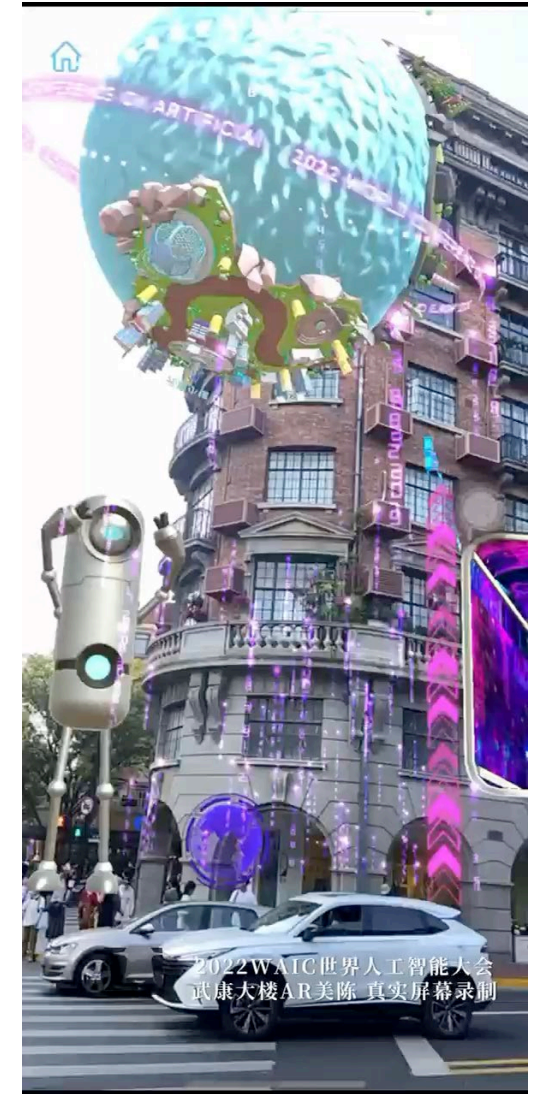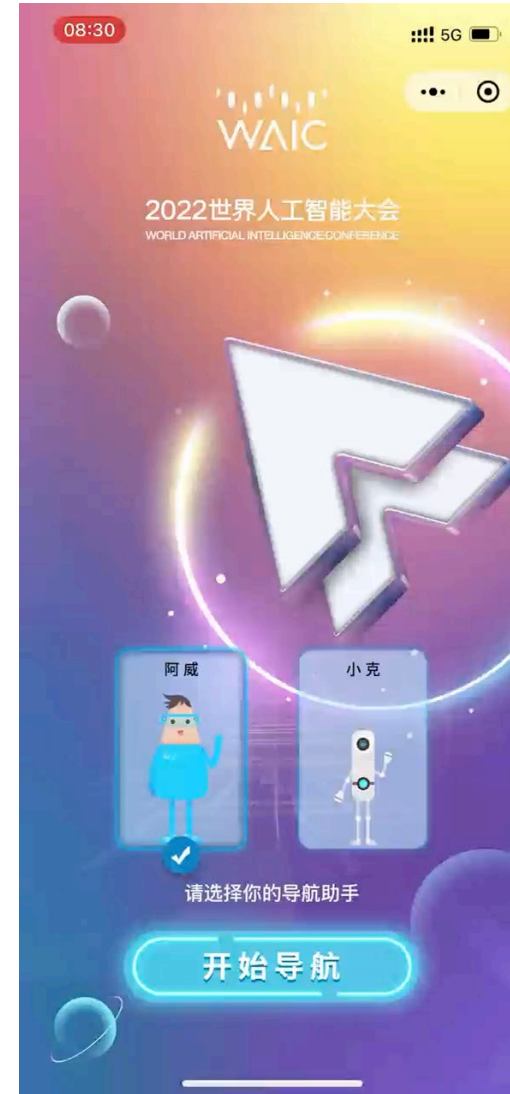
High Temperature

Visual Based AR Guiding

- NO NEED for other location tracking solution, like Bluetooth or WiFi based RTLS.
- Based on
  - Visual characteristic of the scene
  - Sensors on smart phones

Register today!!!
Looking forward to see you there!!!

RSVP / Enquiry:
R-S-V-P@AgileCore.hk

(Limited Seats, registration will be based on SQX's final confirmation)

Focus
Open
Service