SHAPING INTELLIGENCE

MEET AIOT.
TOUCH THE FUTURE.

Digital Twin Practice of the 19th Asian Games Venues



"Better-Than-Live" Management Experience



Digital World

Digital-Twin simulation by 3D BIM modeling + video technology

Mirroring -

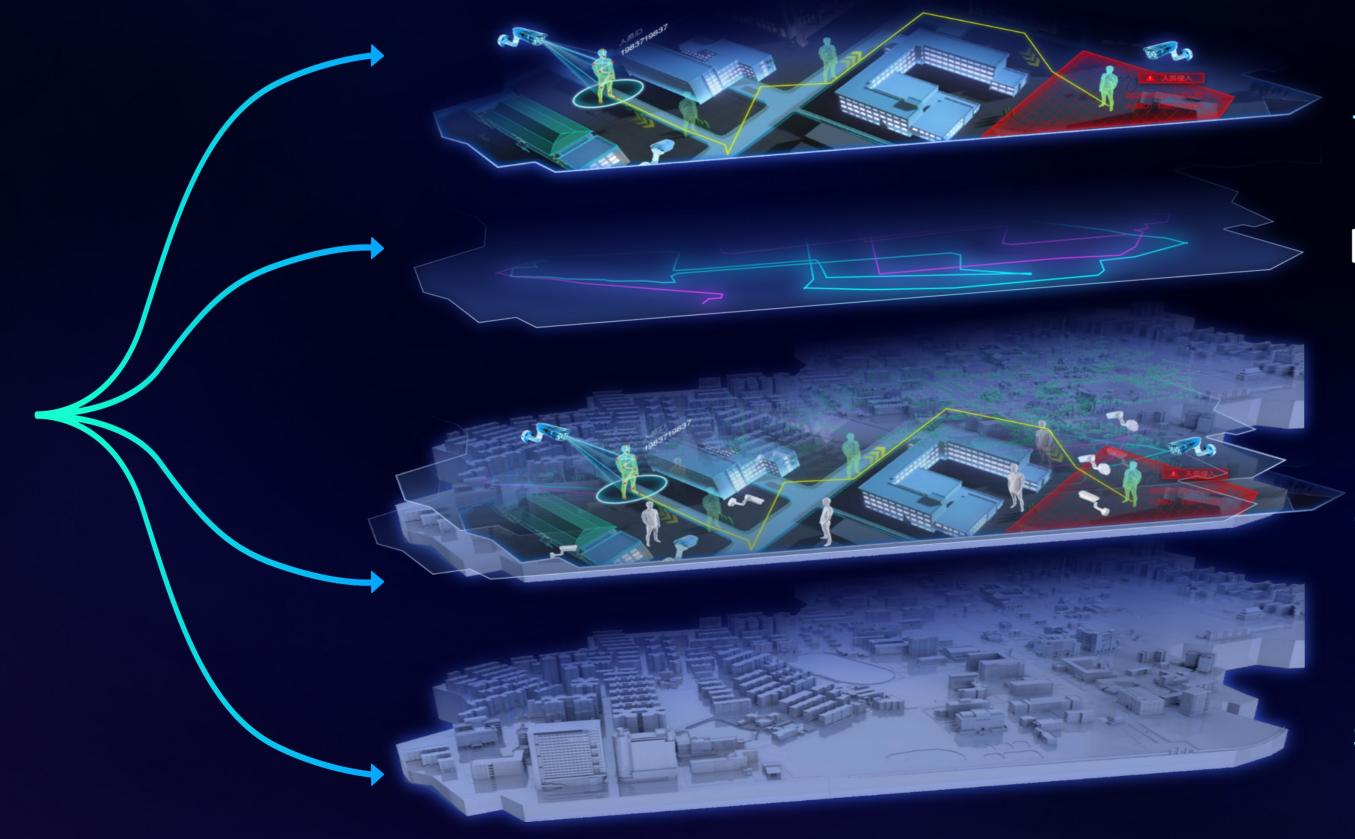
Physical World

AloT system Convergence

Technology Implementation of Hikvision Digital Twin

Tiered open design with BIM & Video Technology as the core and AloT connection as the base





L4 Application Integration : Security Patrol, Vehicles Tendency management, energy management...

L3 Effect Simulation: Visual effect, video AR, video VR

L2 Elements Tagging: AloT devices, human-vehicle objects, data ...

L1 Fundamental Modeling: Key zone, internal structure ...



Partner



Hikvision



Hikvision





Hikvision/Partner

Operations Overview - From Big Picture to Details, from Virtual to Real

Physical World



Digital World

Intuitive display of daily data and operation KPI

Daily data monitoring: Alarm event environment status, car parking information, audience admission etc. **Operation KPI Tracking:** water and electricity consumption, venue patrol rate, abnormal devices rate, etc.

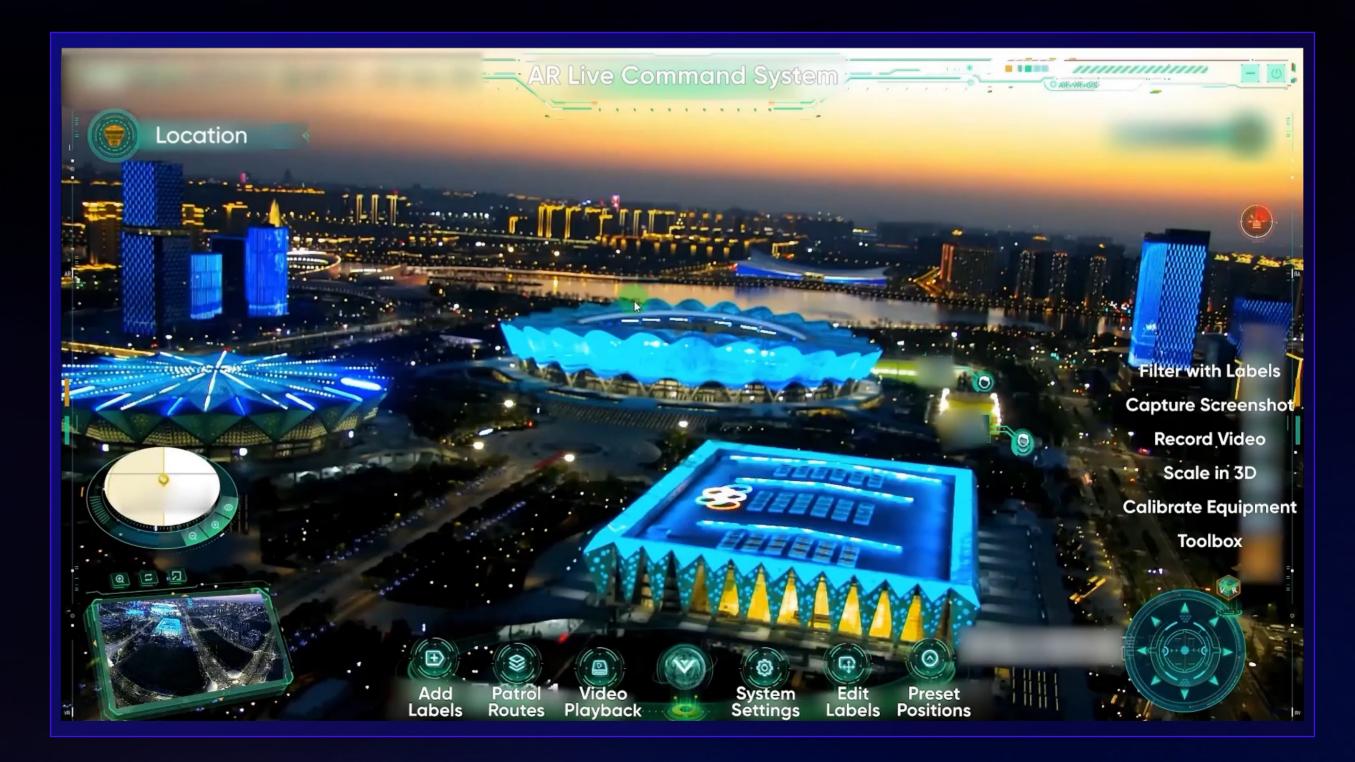


Digital World



Physical World

AR technology: overall-to-detail virtual-to-reality interaction

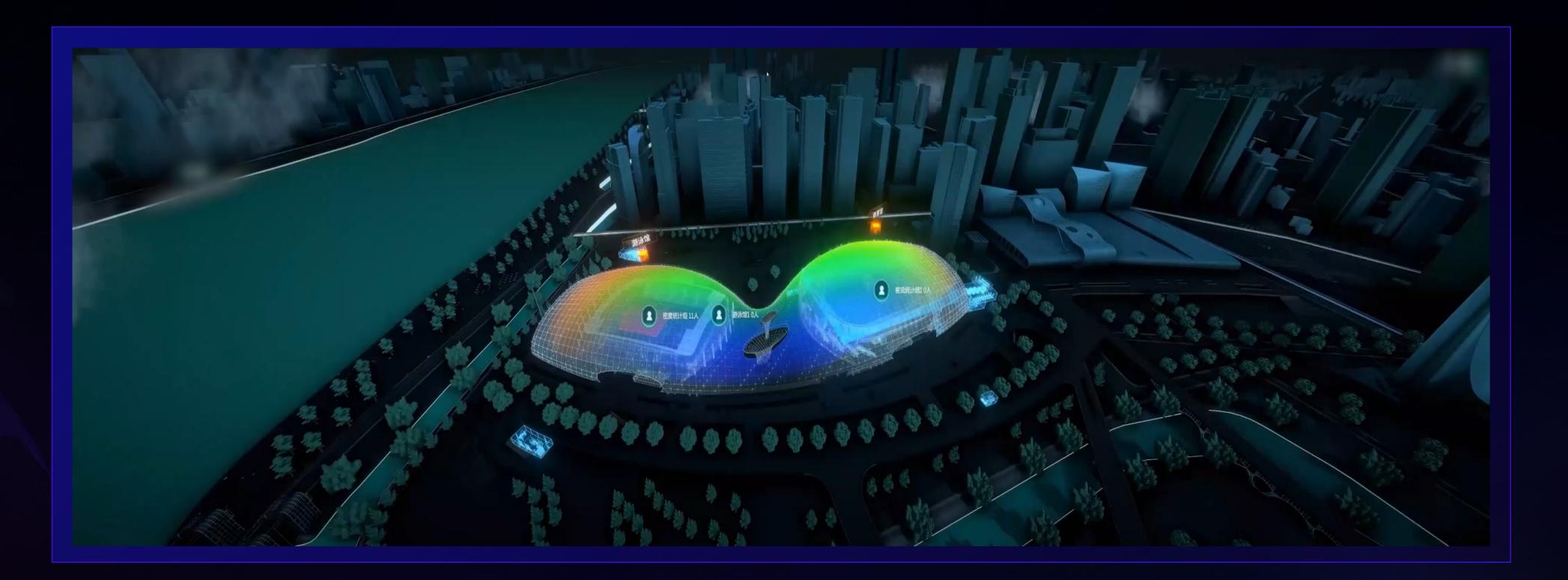


Access Management – Closing the Loop from Potential Risks Detection to Remote Commanding

Physical World

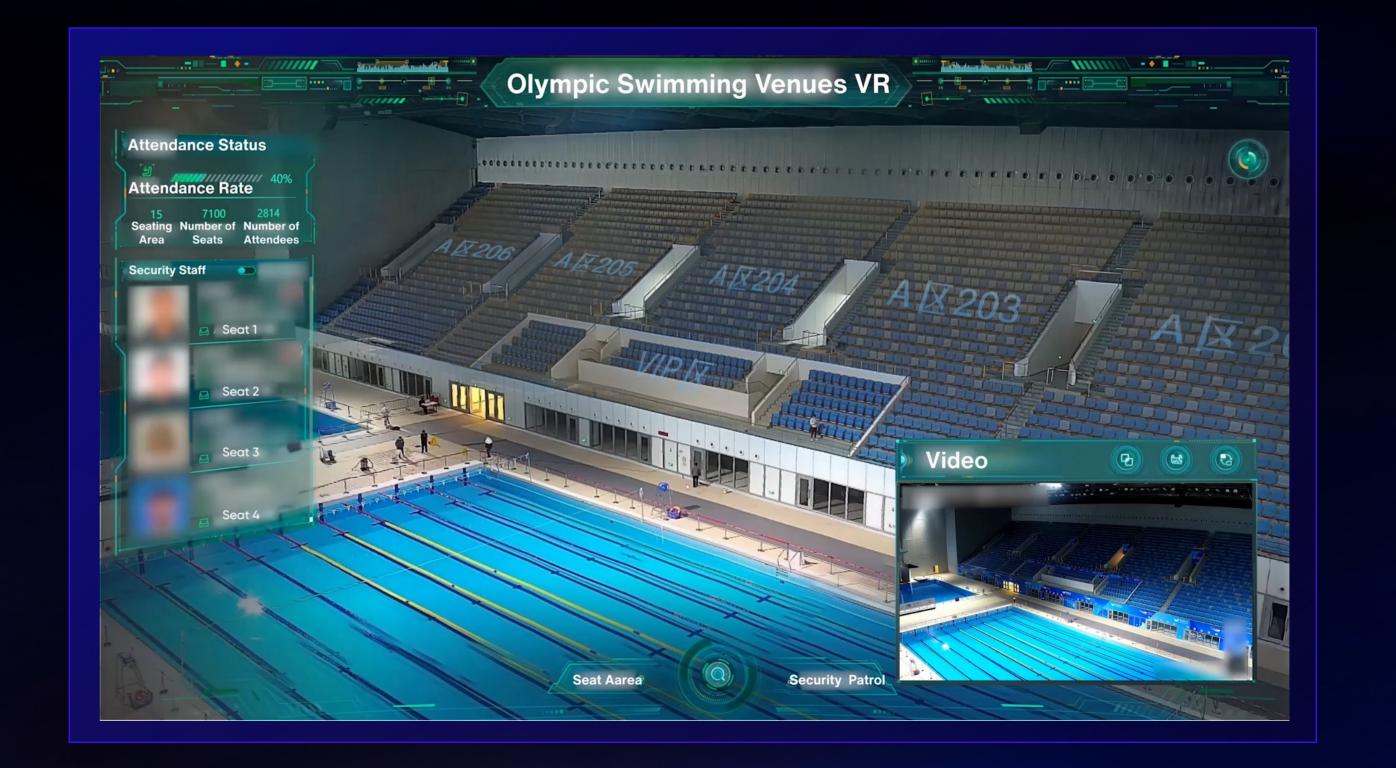
Digital World

Human and vehicles flow analysis



Digital World Physical World

Remote command and control through VR technology



Security Management –from Whole Venue to Critical Area, from Reactive to Proactive

Critical Area

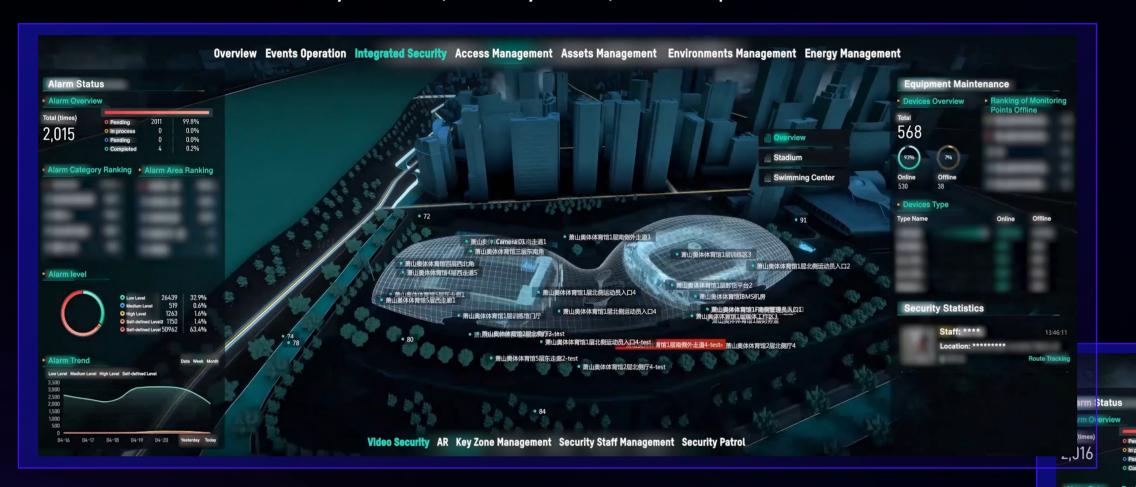
Key Area Protection

Perimeter Protection, Security staff Management, Alarm SOP

General Overview

Security Overview

Security Statistics, Security alarm, video inspection....



Proactive:

Virtual Patrol

Security virtual patrol proactively finds problems



Execution:

Security Deployment

Security personnel distribution and scheduling



Energy and Environment Management – Contribute to Comfortable and Green Asian Games

HVAC Management

Air conditioning status

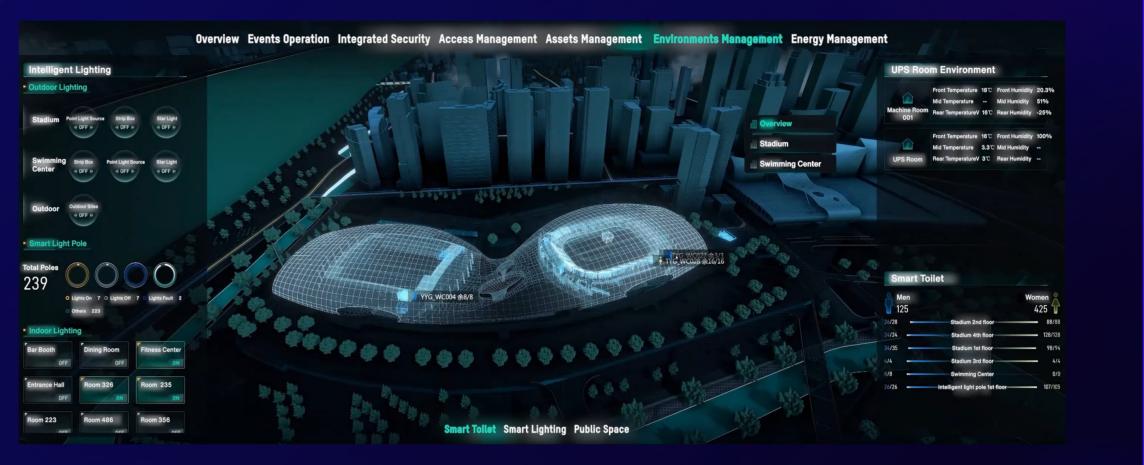
Area temperature and humidity status

Intelligent Lighting Management

Lighting equipment status
Switching light statistics
Remote on/off control









Smart Sanitation Management

Occupation rate statistics for toilet

Temperature and humidity management

Energy Consumption Management

Usage situation, trend analysis and abnormal analysis for the water, electricity and gas of the venue

7

Empowering Ecosystems Together to Create a "Better-Than-Live" Experience for All











