

# 面向公共安全的智能物联网 — 从被动监控到主动应对

## Intelligence IoT for Public Safety — From Reactive Surveillance to Proactive Resilience

**黄振球博士**

特别顾问  
TCCA

**Jolly Wong**

Special Advisor, TCCA

GSMA

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IoT Summit

# Enabling Intelligent Connectivity for Asia's Digital Future

Friday, 26 June  
13:00 – 15:00 CST  
MWC Main Stage

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上海 · SHANGHAI  
2026年6月24-26日  
24-26 JUNE 2026

# The Critical Communications Association (TCCA)



Advancing global  
critical communications for a  
safer,  
more connected world



# INTELLIGENCE IoT FOR PUBLIC SAFETY: FROM REACTIVE SURVEILLANCE TO AUTONOMOUS RESILIENCE



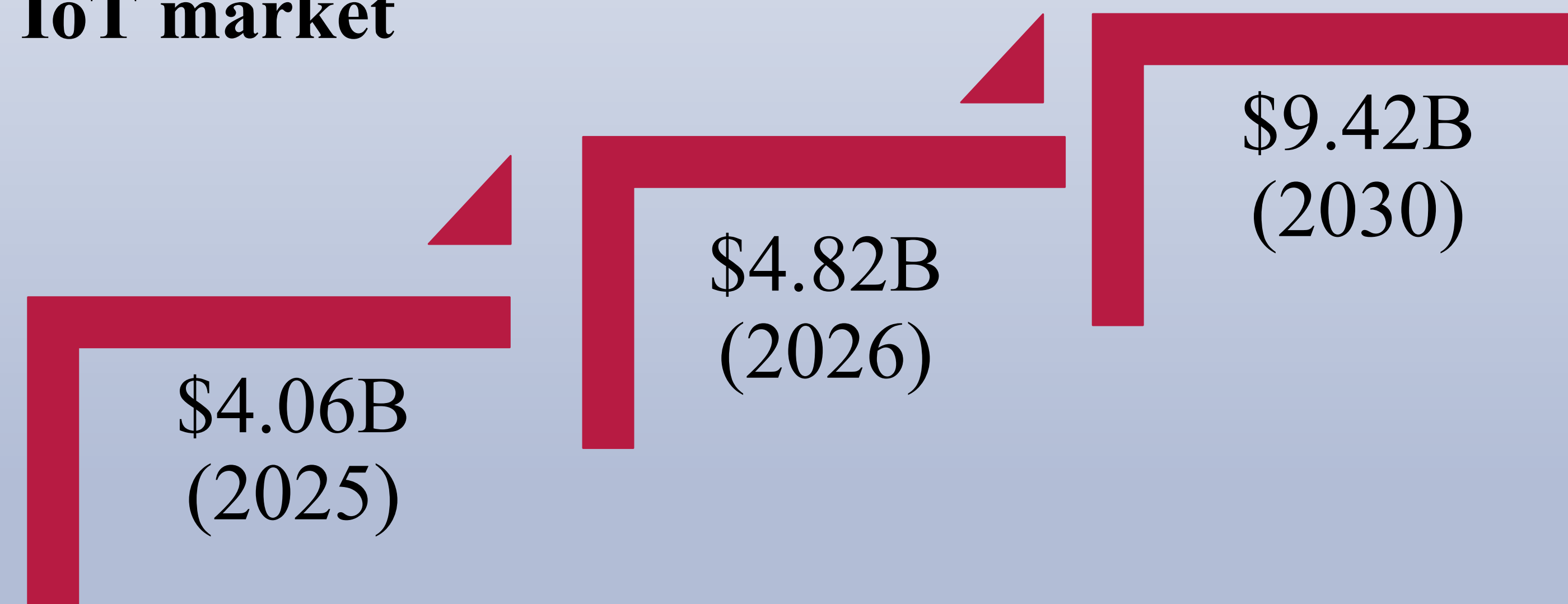
Traditional CCTV control room  
(reactive)



AI-powered dashboard with predictive  
heatmaps (proactive)

# WHY INTELLIGENCE IOT MATTERS FOR PUBLIC SAFETY NOW?

Growth of public safety  
IoT market



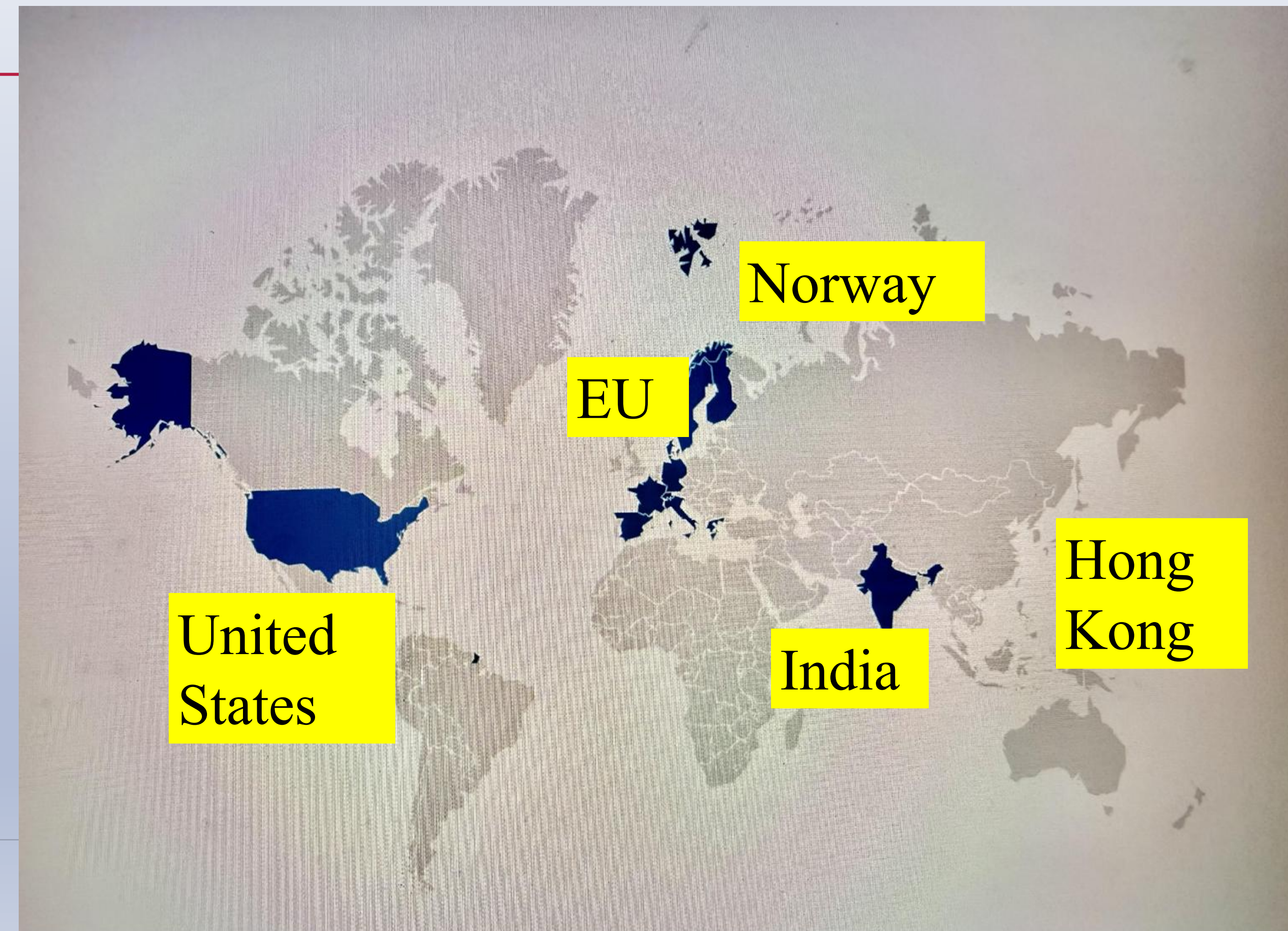
Three Converging Forces:

1. Threat Landscape
2. Citizen Expectations
3. Technology Maturity

Asia-Pacific is the fastest-growing region and China is leading  
- the shift in capability – from passive monitoring to active intelligence.

# LEADING ORGANIZATIONS & USE CASES

1. **European Union** – Protect EU Strategy
2. **India** – Safe City Projects
3. **United States** – Motorola Solutions
4. **Norway** – EMARESC Framework
5. **Hong Kong** – SmartView



# Tragedy of Lan Kwai Fong New Year's Party on 1 January 1993 in Hong Kong



21 New Year's revellers were  
trampled to death.  
62 others were injured.

# Chen Yi Square in Shanghai stampede in 2014 New Year's Celebration



36 people were killed and another 49 were injured



# Halloween stampede in Seoul in 2022



A Halloween festival attended by 130,000 people turned a crowd crush, killing 158.



# Police using surveillance CCTV for crowds control after the tragedies



# SPOTLIGHT – HONG KONG POLICE SMARTVIEW PROJECT

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- launched in April 2024, a living laboratory for Intelligence IoT.
- Over 4,500 cameras installed in public places with high crime rates and pedestrian flows. Plans to expand to 6,500+ cameras across metro stations, public housing estates, and government facilities.
- Innovation is not the cameras. It's the **Integration**



# SPOTLIGHT – HONG KONG POLICE SMARTVIEW PROJECT

SmartView doesn't just see. It connects

- Cross-departmental integration
- Multi-agency expansion
- AI-powered analytics:



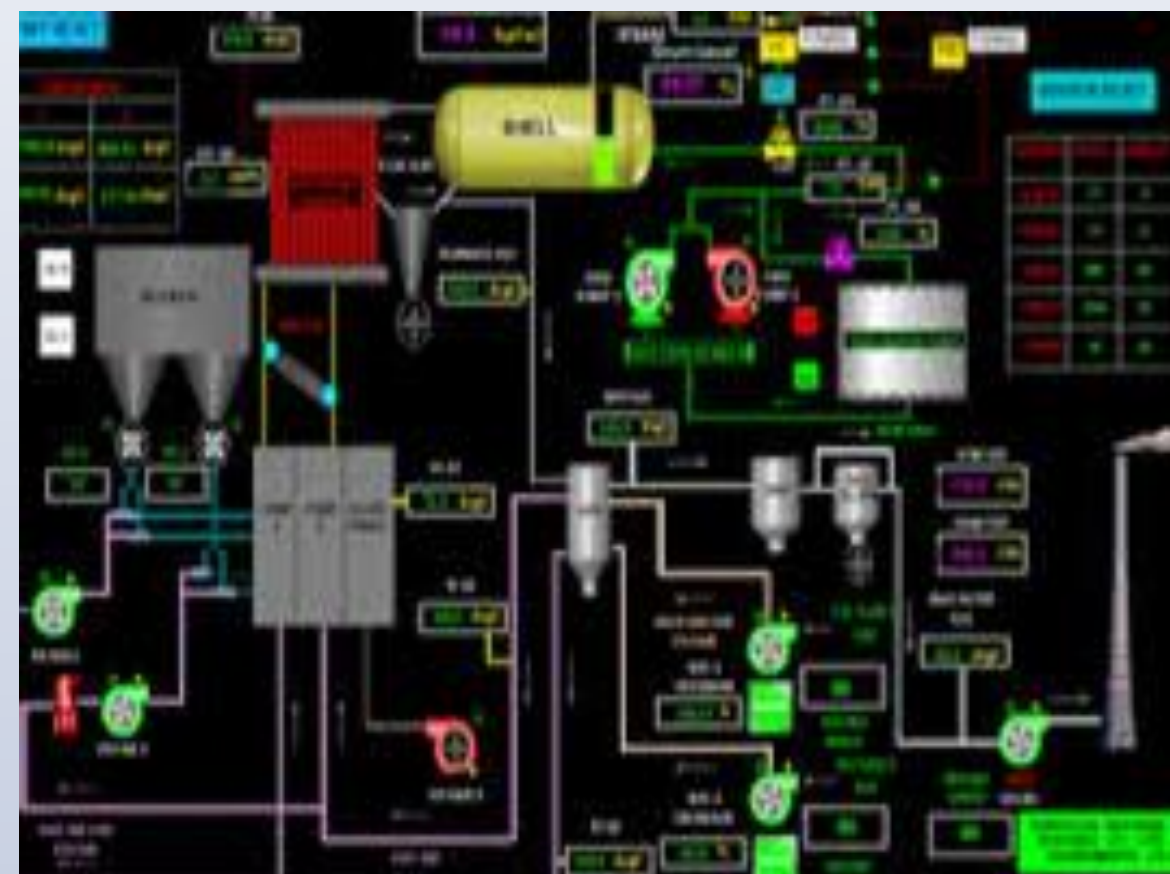
- . The system has aided in detecting more than 480 criminal cases and led to the arrests of over 840 individuals.
- prevented incidents
- . SmartView is not the final destination.
- . It is a **bridge** – from **reactive surveillance** toward **proactive resilience**.

# STATE OF THE ART – EMERGING TECHNOLOGIES

## Six emerging technologies

1. **Federated Learning + Electronic Digital Twins**
2. **AI Video Analytics + SCADA Integration**
3. **AI-Enabled Smart Cameras with Edge Analytics**
4. **Blockchain for Decentralized Trust**
5. **Generative AI and LLMs for AIoT**
6. **UAVs and Autonomous Robot Patrols**

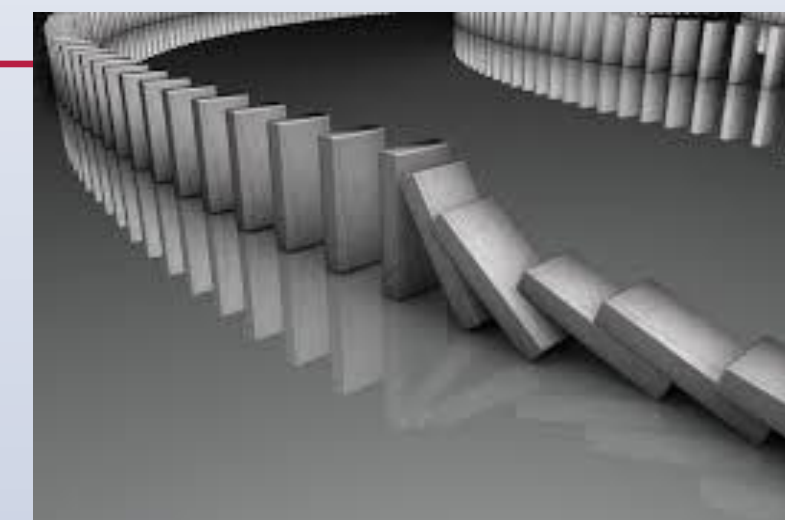
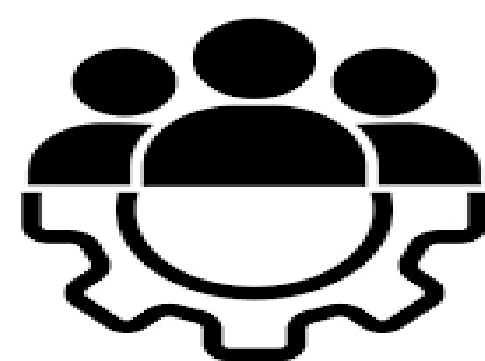
These are not science fiction. These are deploying now in pilot projects from Seoul to Barcelona to Singapore.



# OPPORTUNITIES AND CHALLENGES

## Opportunities

- **AI-powered early warning for floods, fires, earthquakes, and civil unrest**
- **Privacy-enhancing technologies that enable without surveillance**
- **Massive investment**



## Challenges

- **Integration failures**
- **Privacy and ethics**
- **Interoperability**

# MEGA TRENDS, IMPACTS, AND IMPLICATIONS

## Five mega-trends

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From  
Reactive to  
Proactive

Integration of  
Physical and  
Cyber Security

Edge  
Computing for  
Real-Time  
Response

Climate-Driven  
Hazzard  
Monitoring

Whole-of-  
Society  
Resilience

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# CONCLUSION

## Technology alone does not save lives

- What saves lives is **integration** -  
Hong Kong's SmartView proves this works.
- What saves lives is **privacy-preserving intelligence**
- What saves lives is **resilience**
- What saves lives is **courage**

*What will YOU build?*



Thank you

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