

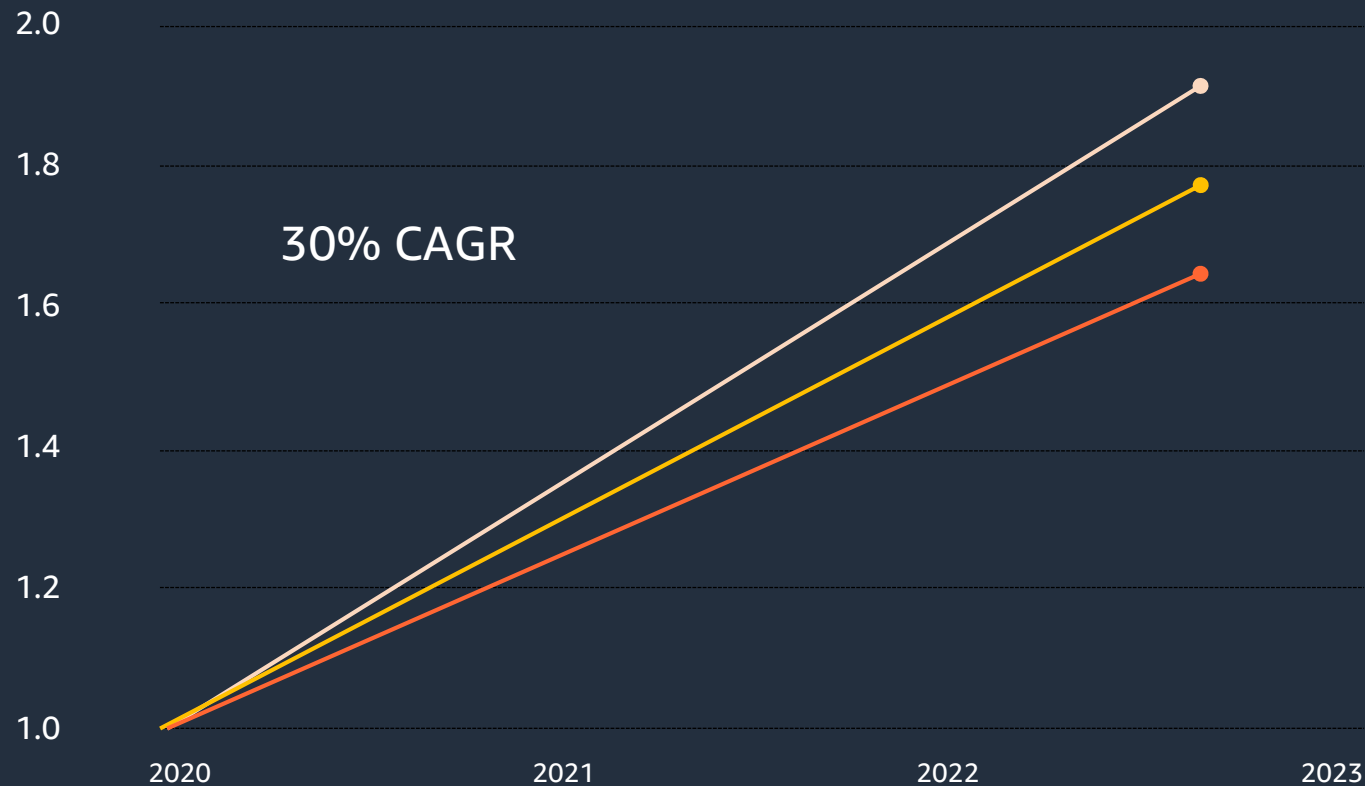


# AWS PropTech Solution Day Hong Kong

**AWS Panorama** Brings Computer  
Vision To The Edge

Norman Lam – Head of Innovation (Armitage Technologies)  
Albert Lau – Business Development Manager (AWS)

# Visual data from IP cameras is doubling every 2.5 years



**3,500 PB daily data from IP cameras**

**\$13.4B video analytics market**

**175M enterprise IP cameras**

However, **98%** of recorded footage is **never analyzed**

Source: Market Research Future: Global Surveillance Storage Market, and Global Market Insights: IP Camera Market Report

# Computer vision can automate a variety of tasks



**Detect, count, and track movement of objects**

**Classify objects based on color, condition, and type**

**Measure distance and proximity**

**Read text and numbers**

**Recognize gestures and physical activities**

# Introduction of AWS Panorama



# AWS Panorama Appliance

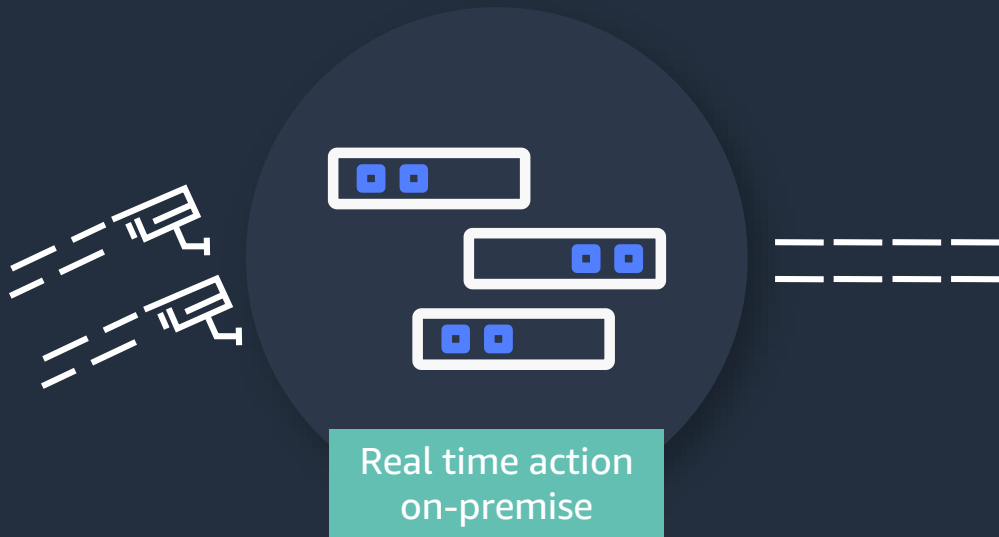
## Powerful CV appliance for industrial environments



# AWS Panorama Appliance

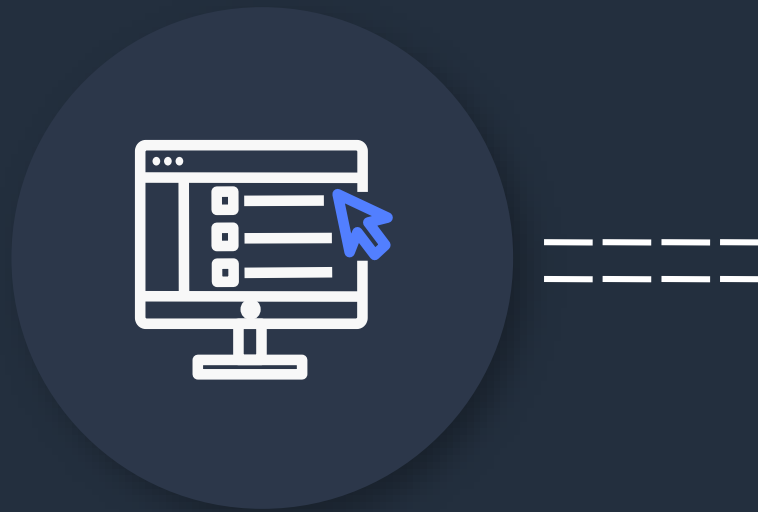
## Powerful CV appliance for industrial environments

### On-premises



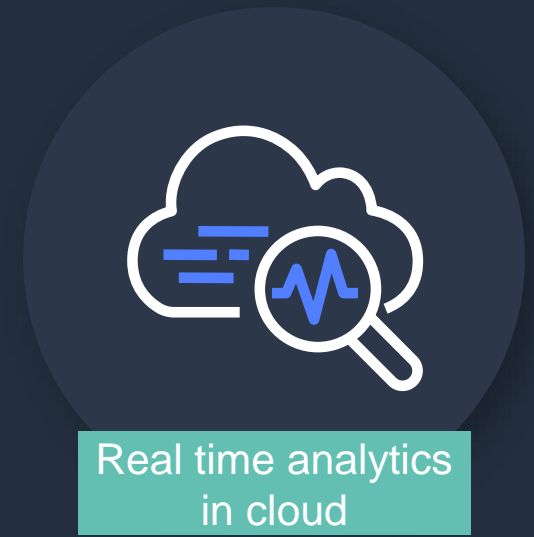
On-premises video streams analyzed in real time on the Panorama Appliance

### Cloud



Creating and managing CV applications at the Edge and application and device fleet management

### Analytics



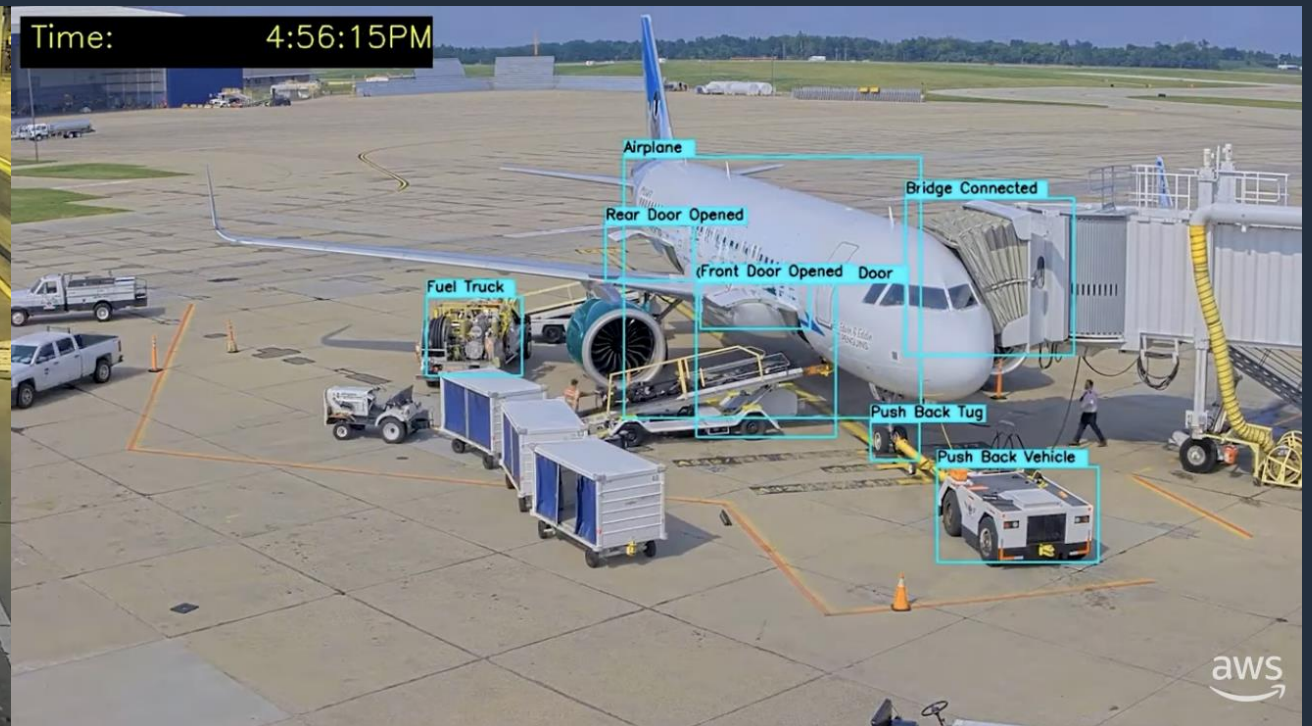
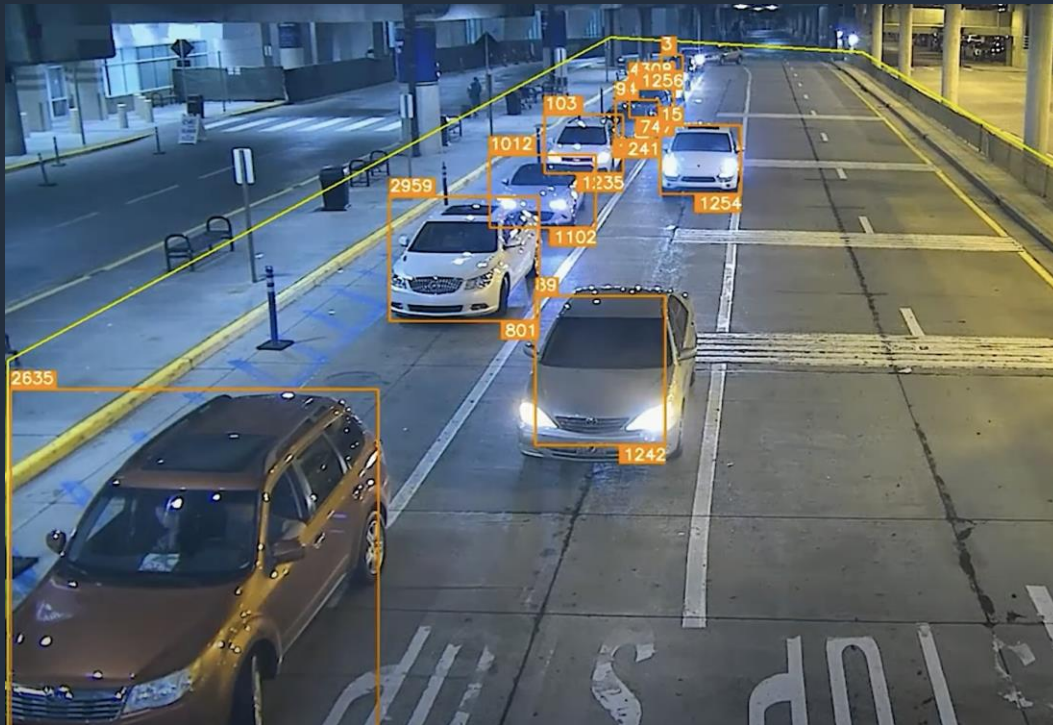
Application results and alerts sent to business systems for action and analysis

# Case Example | Amazon Fulfillment Center Distance Assistant



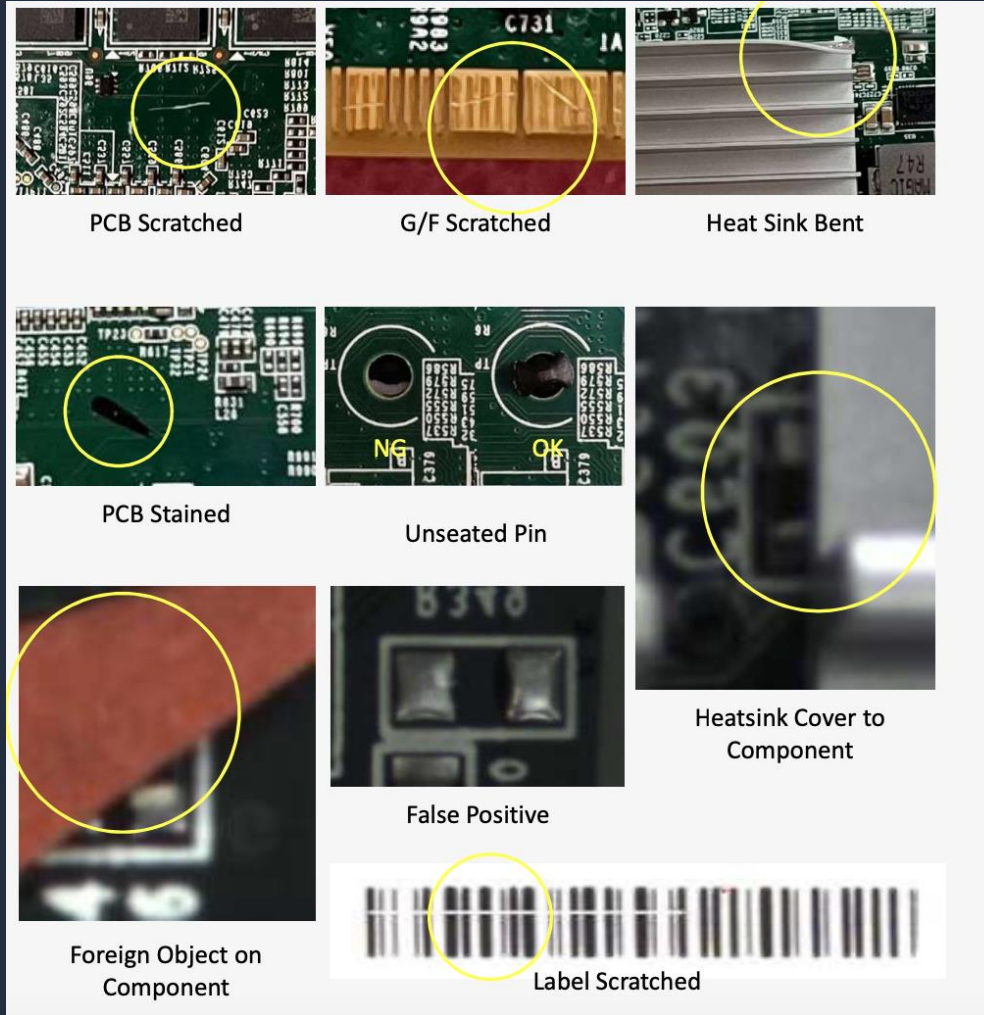


# Case Example | Optimize Traffic Management

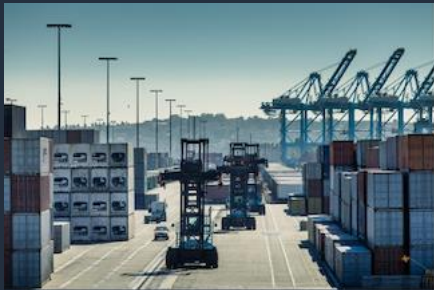




# Case Example | Evaluate Manufacturing Quality



# AWS Panorama Enables New Capabilities Across Industries



Improve supply



Evaluate manufacturing quality



Enhance worker



Improve order



Smart meter reading



Gather retail



Optimize traffic



Out-Of-Stock alarm



Physical social distancing



leak monitoring

# Get started with AWS Panorama

Identify use case and define  
KPIs and success metrics



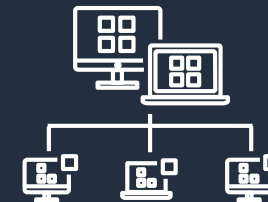
**Planning**

Build or buy CV app and test  
with AWS Panorama emulator



**Development**

Purchase and deploy AWS  
Panorama Appliance with  
CV app



**Deployment**



# armitage

*Your Solutions Partner Since 1972*

turning Data into **Insights**

We are a full service IT company specialising in providing solutions and building technology that are needed for the 21st century.

We connect decision makers to a dynamic network of data, people and ideas. With our expertise, we assure quality and premium insights for your projects, from cradle to finale.

## WE KNOW TECHNOLOGY.

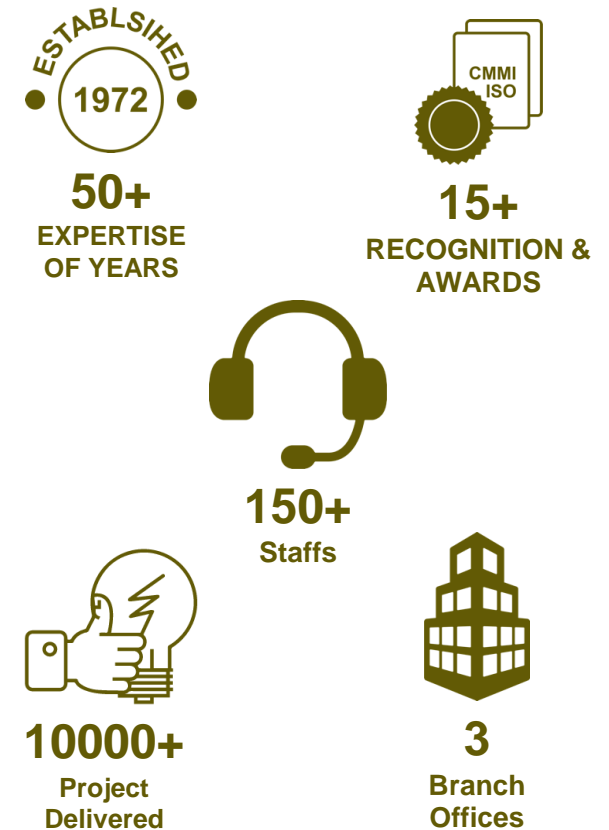




# Company Background



- Establishment since 1972
- One of Leading Local IT Solution Provider in HK & PRC
- Our coverage: Governmental Departments, Public, Logistics, and Commercial sectors
- Partnership with





# Company Background



Standard Offer Agreement for Quality Professional Service  
Provision of IT Service to Government Department on 28Jan 2022



# Case Sharing

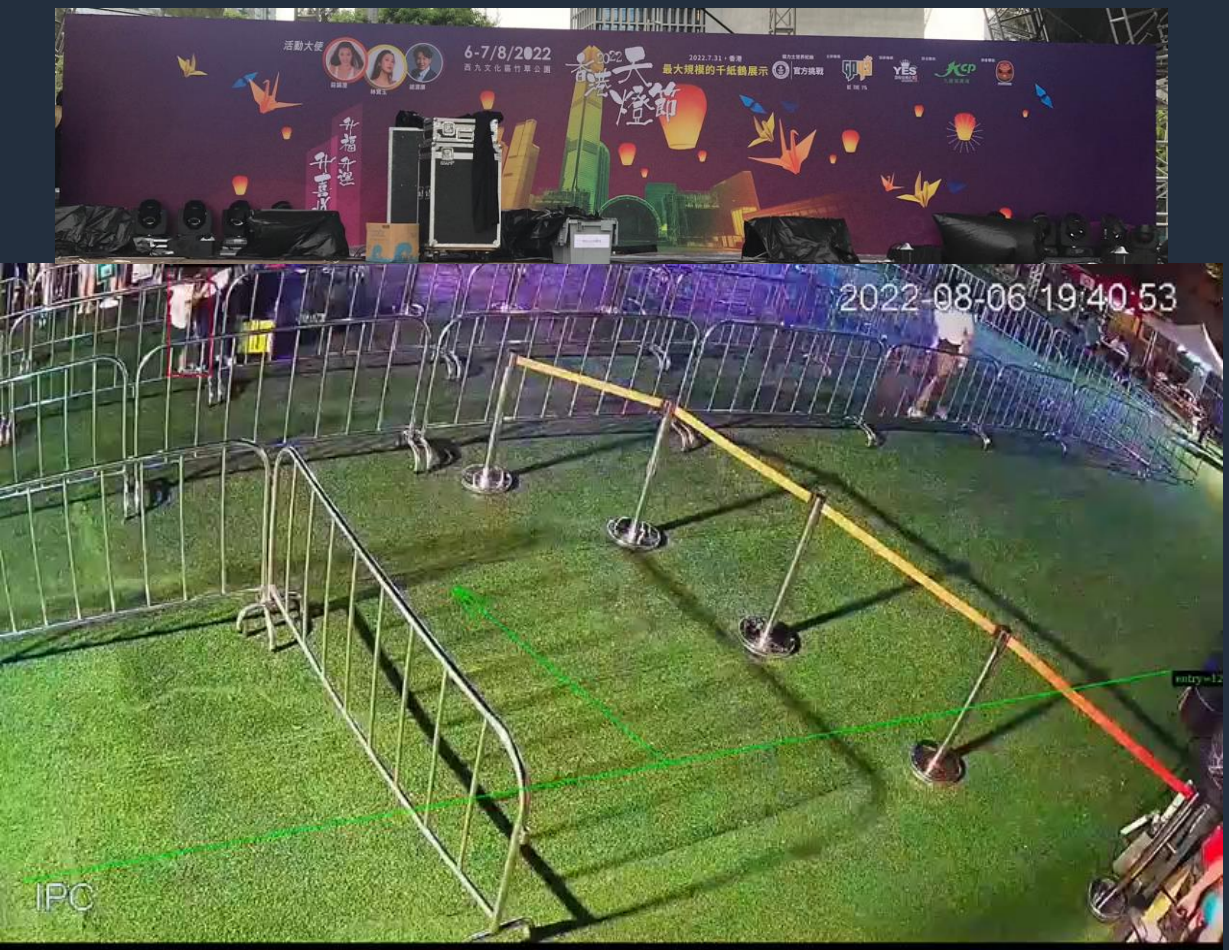
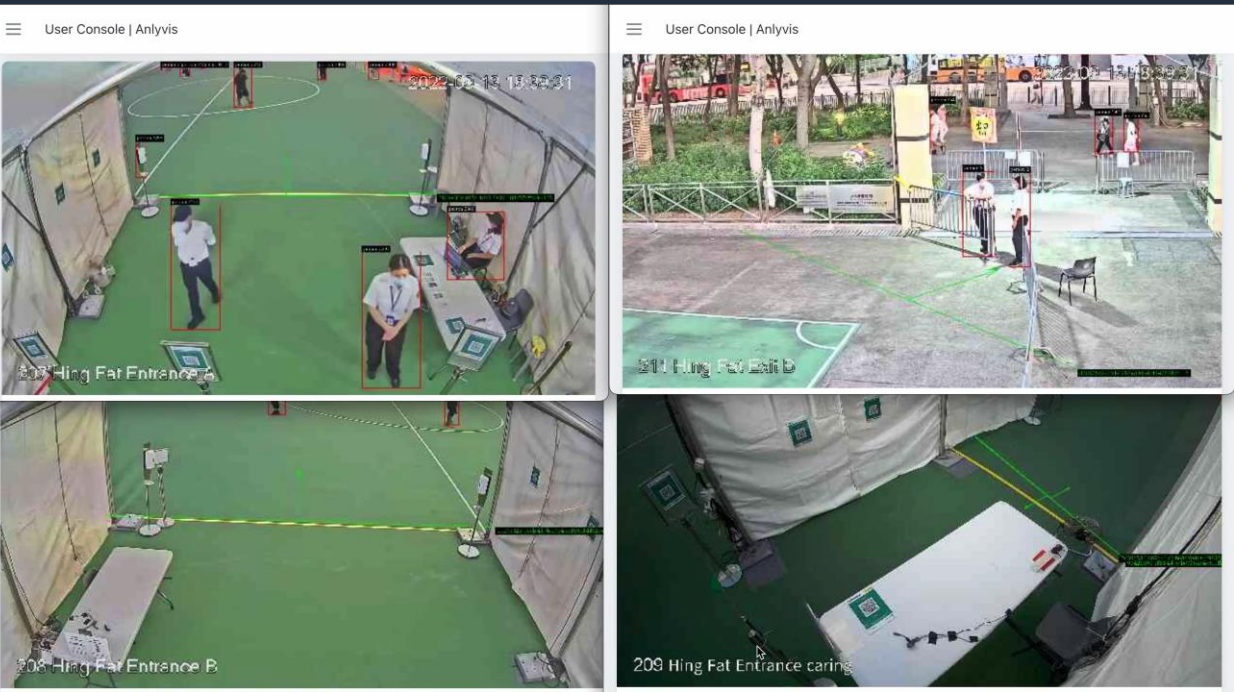
# Outdoor Event People Counting

# Outdoor Event People Counting – AWS Panorama Use Case

- Reliable 24/7 monitoring, day-or-night, in any weather
- Set network camera at Outdoor; Video & Data transmission via 5G in Real-time
- Capable of identifying
  - People In/Out at entrance & exit
  - Dwell (waiting) Time for queuing
  - Zonal Counting for reception









# Outdoor Event People Counting - AWS Panorama Use Case



**ANLYVIS**  
AnlyVis AI makes Value

**Lantern Display 2022**

2022/9/10  
20:36:25

已接近上限人數  
Approaching Upper Limit

當前場內人數  
8168

本日進場人數  
23620

本日離場人數  
15452

會場上限人數  
9000

Powered by

香港天燈節2022

2022/8/5 18:36:28

場內人數  
31

上限人數  
5000

請進入  
Welcome

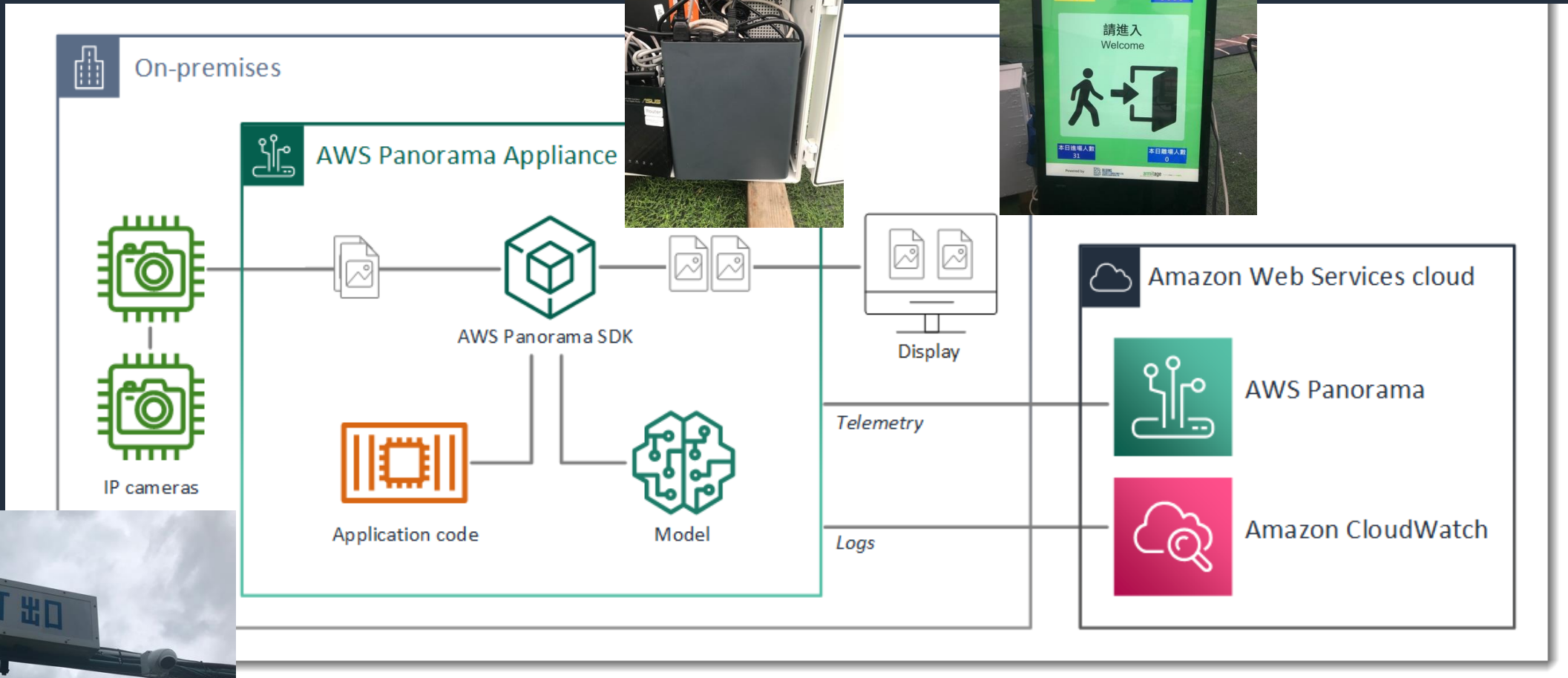
本日進場人數  
31

本日離場人數  
0

Powered by



# Outdoor Event People Counting - AWS Panorama Use Case



# Armitage Upcoming AWS Panorama Use Case



Retail



Property /  
Crowd  
Management



Construction  
Site



Logistics /  
Transportation



Manufacturing

## SETTING

### SHORT DESC- RIPTION

Human/Pose  
Analysis for  
Behavioural

Alert for  
Stranger  
Detection /  
Wheelchair  
or Stick  
Detection

Workers  
Counting /  
Detection

Truck and  
Cargo  
Tracking /  
Recognition

Monitoring  
Production