



From Outdoor to Indoor: Green Mobility

OGCIO Tech Forum

Speaker: Mr. Simon Tsang (Co-Founder & CTO, SOCIF)

Smart Mobility Advocate for cities

● Transport:

- Estimated Time of Arrival (ETA)
- Passenger Counting System (PCS)
- In-vehicle Air Quality (IAQ)

● Logistic:

- Route Optimization
- Carbon Emission Monitoring

● Building:

- Video Analytic
- People & Object Detection



Clients



Transport/Logistic

Property Management

LESS vehicles on roads

1. Transport Management

- Estimated Time of Arrival (ETA)
 - Passenger Counting Solution (PCS)
 - In-vehicle Air Quality (IAQ)
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- ✓ Better transit experience for public transport
 - ✓ Higher adoption of public transport network
 - ✓ Less private vehicles on roads





Real-time arrival forecast system (ETA) & Fleet Management System (FMS) for Green Minibuses

- ✓ Serving 1.5 million passengers
- ✓ More than 3,500 green minibuses



- Hong Lok Yuen
- Hillsborough Court
- Park Island
- Royal Ascot
- Castello
- International Commerce Centre
- Two Harbour Square
- Airport Freight Forwarding Centre

Property Shuttle Bus ETA

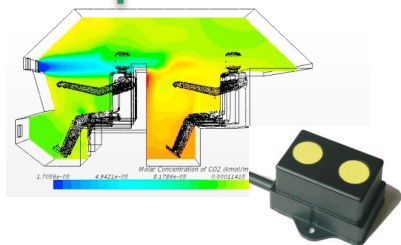
Providing ETA service to 10+ residential & commercial properties, 100+ shuttle buses in HK

Passenger Counting & In-vehicle Air Quality (IAQ)

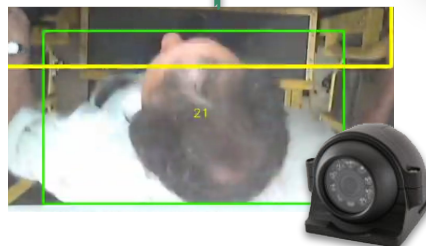
Real-time local processing of AI model/connectivity



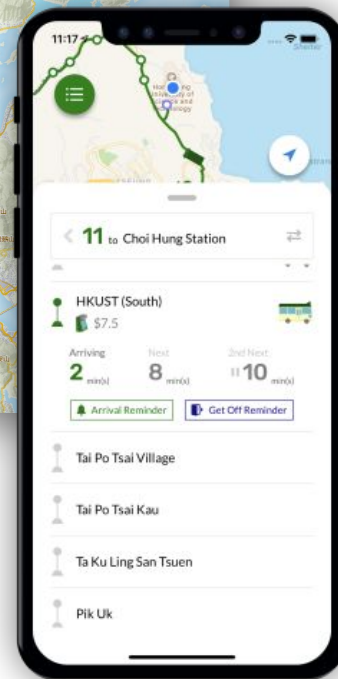
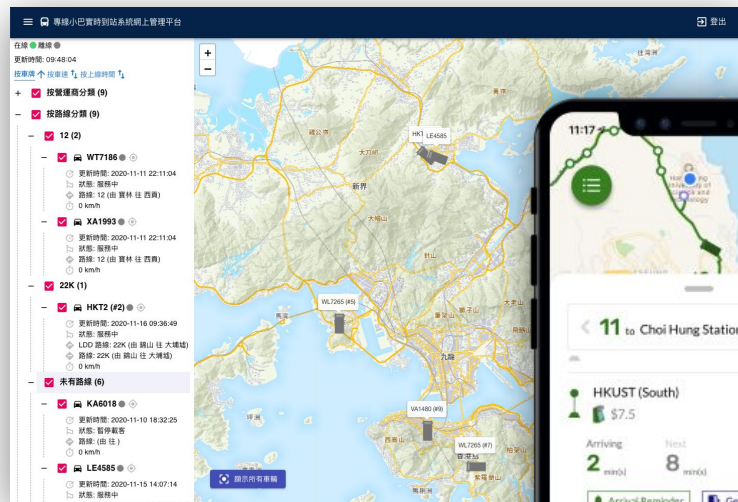
Edge Computing Unit



CO2 sensor

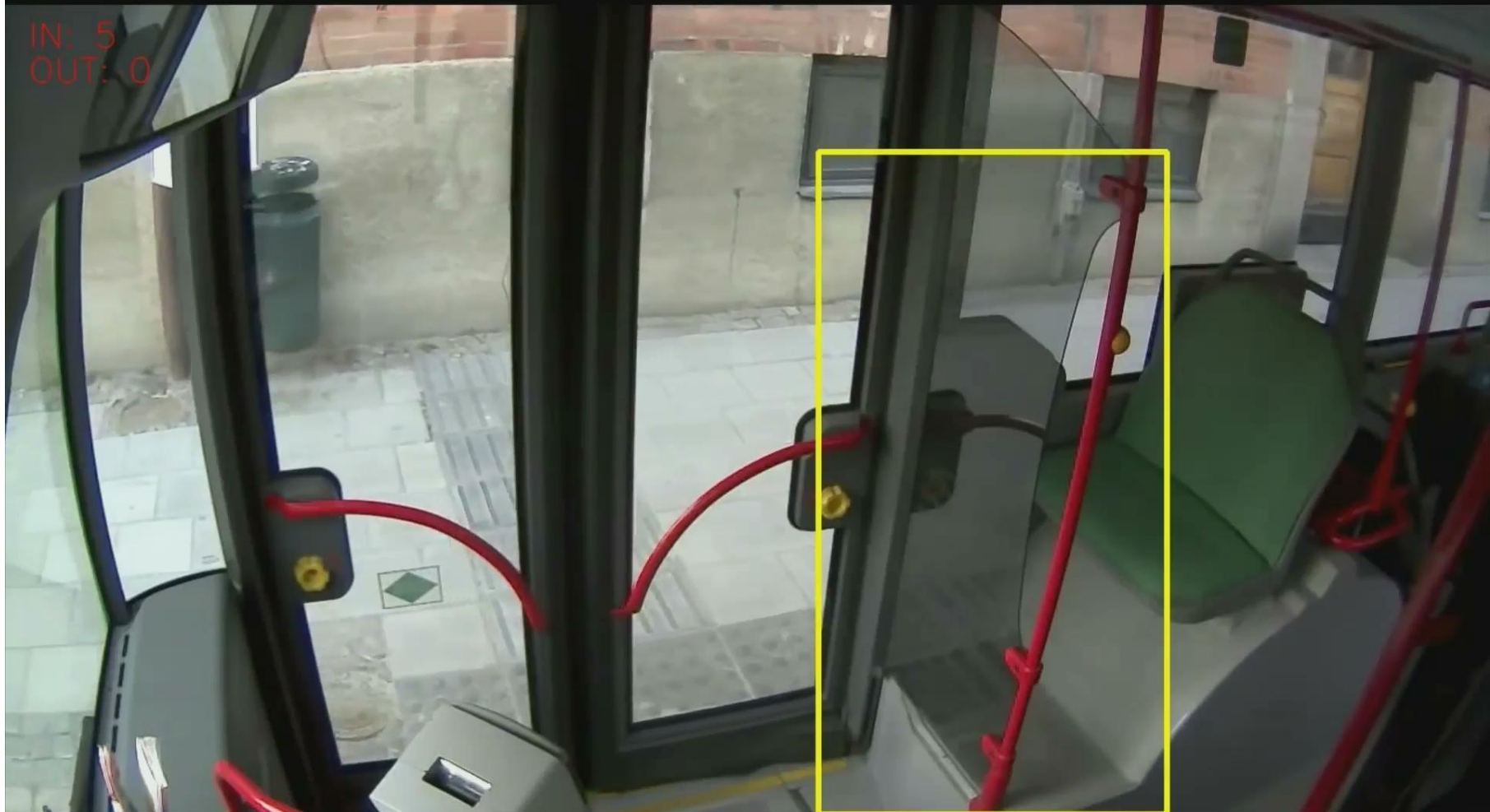


Existing Camera sensor



Passenger App

IN: 5
OUT: 0



LESS Logistic Carbon Emission

2. Logistics Management



Route Optimization



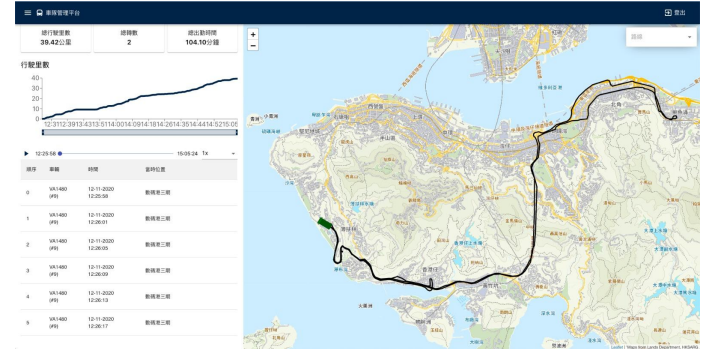
Carbon Emission Monitoring



Assign route with least fuel consumption



Reduce carbon emission

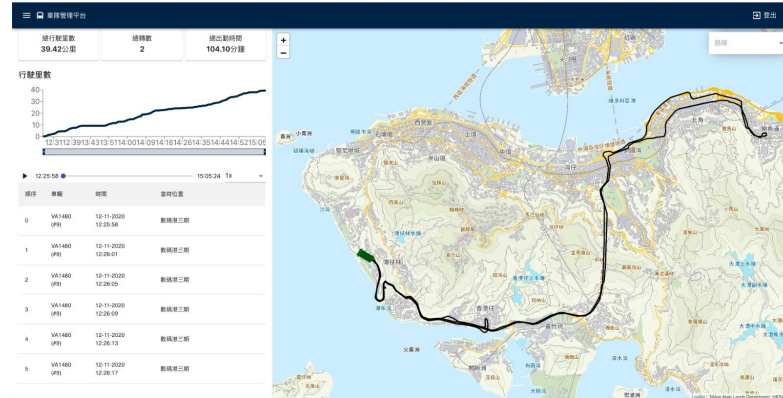


Logistic use cases

Route Optimization, fleet management, dispatching, customizable sensors

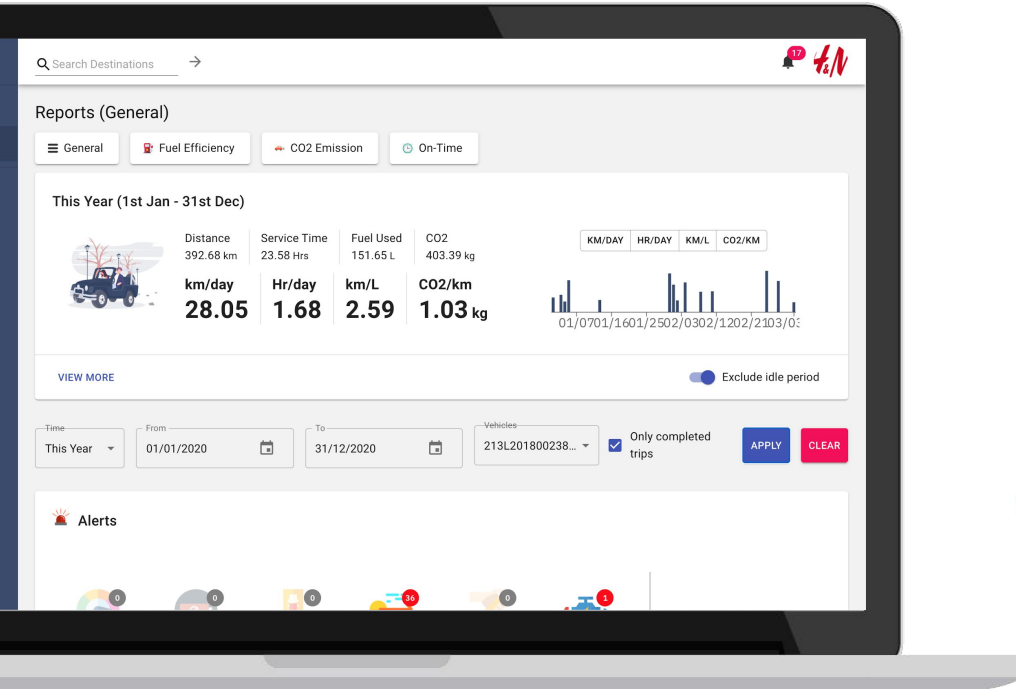


Serving 80+ different sizes of vehicles in Hong Kong



Carbon Emission Monitoring




Real-time sustainability reports, driving behavior detection





OBD sensors

HIGHER Building Energy Efficiency

3. Building Management

-  **Video Analytics for people flow/traffic**
-  **BMS integration**
-  **PLC Controller**

-  **Provide video analytics service using the existing CCTVs**
-  **Provide system integration service with the existing BMS**

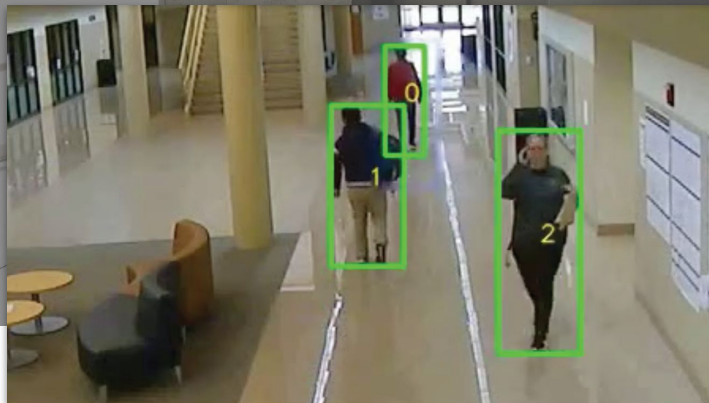


AI Video Analytics

People Flow Detection

Building

- Cloud-based/edge-based/server
- Real-time **people flow** detection/density monitoring



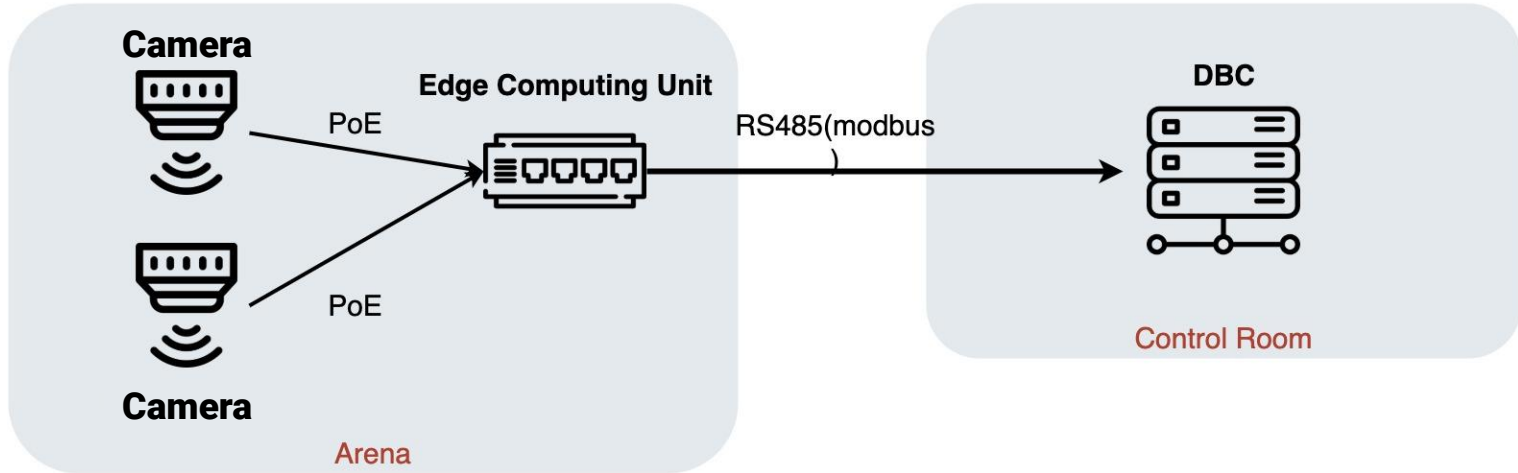
Lift/Room

- Support multiple application scenarios
- Support multiple AI models/object detection models



Building Management System (BMS)

Integration with PLC Controller



Summary

Transport

- ETA
- PCS
- IAQ

- Enhance passenger experience
- Reduce the number of private vehicles

Logistics

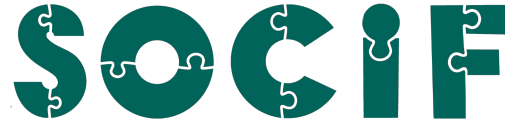
- Route Optimization
- Carbon Emission Monitoring

- Shorter delivery time & route for logistics vehicles
- Reduce fuel consumption

Building

- AI Video Analytic x Building Management System

- Building Energy Efficiency



Smart Mobility Solutions Provider

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