



# From Outdoor to Indoor: Green Mobility

OGCIO Tech Forum

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# 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)
- 
- ✓ 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

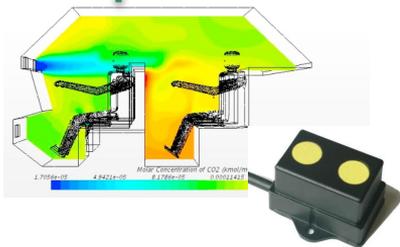
Providing ETA service to 10+ residential & commercial properties, 100+ shuttle buses in HK

# Passenger Counting & In-vehicle Air Quality (IAQ)

Real-time local processing of AI model/connectivity



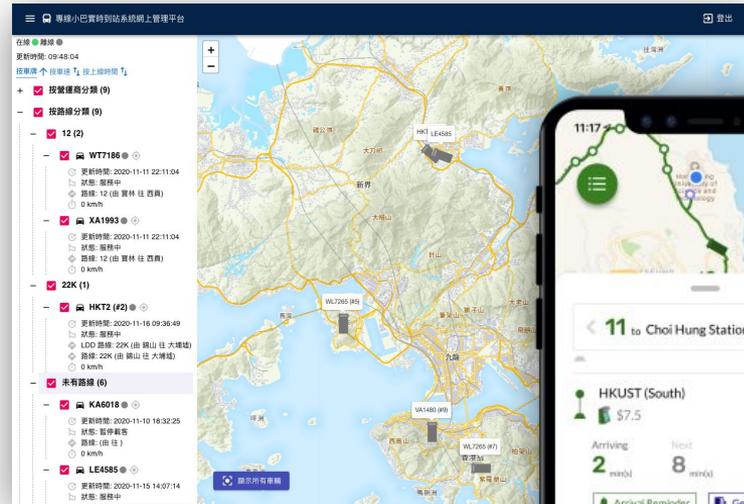
Edge Computing Unit



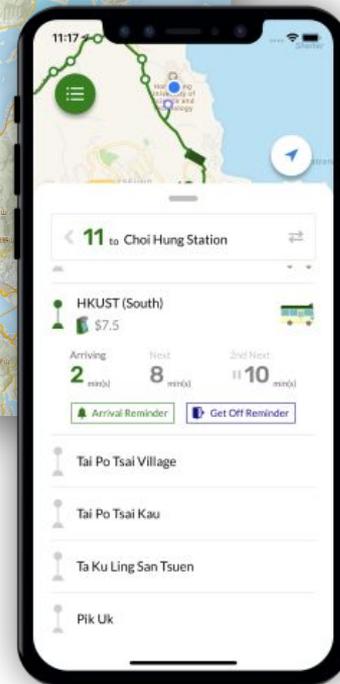
CO2 sensor



Existing Camera sensor



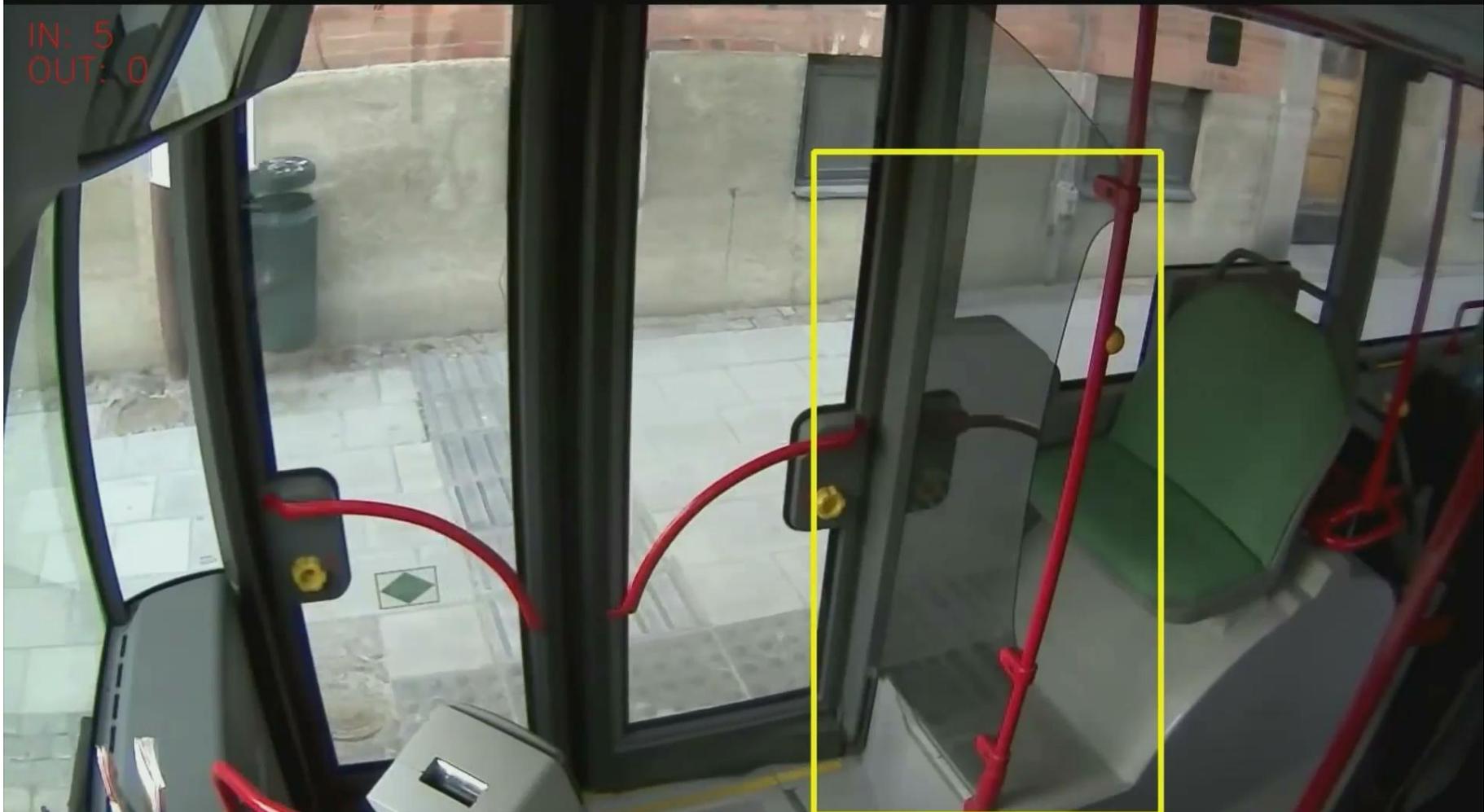
Management Dashboard



Passenger App

M31-R

IN: 5  
OUT: 0



An aerial, top-down view of a multi-lane highway with several vehicles, including cars and trucks, traveling in both directions. The image is overlaid with a semi-transparent teal filter. The text 'LESS Logistic Carbon Emission' is centered over the highway.

# LESS Logistic Carbon Emission

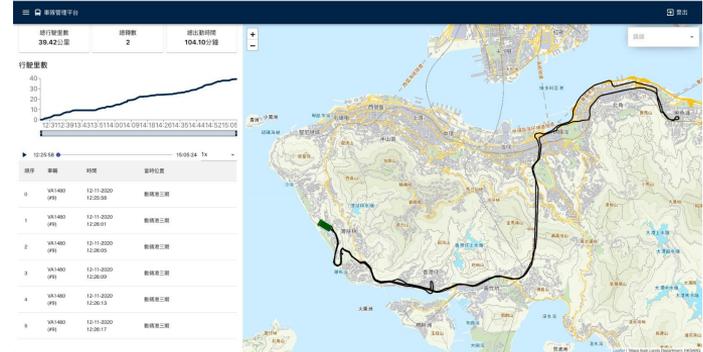
## 2. Logistics Management

 **Route Optimization**

 **Carbon Emission Monitoring**

 Assign route with least fuel consumption

 Reduce carbon emission

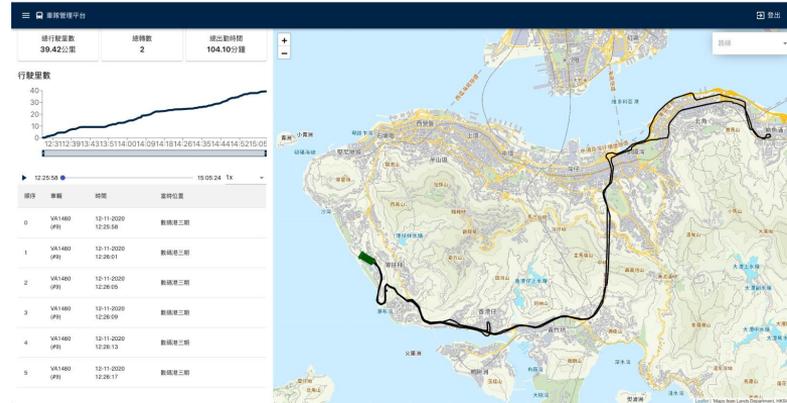


# Logistic use cases

Route Optimization, fleet management, dispatching, customizable sensors

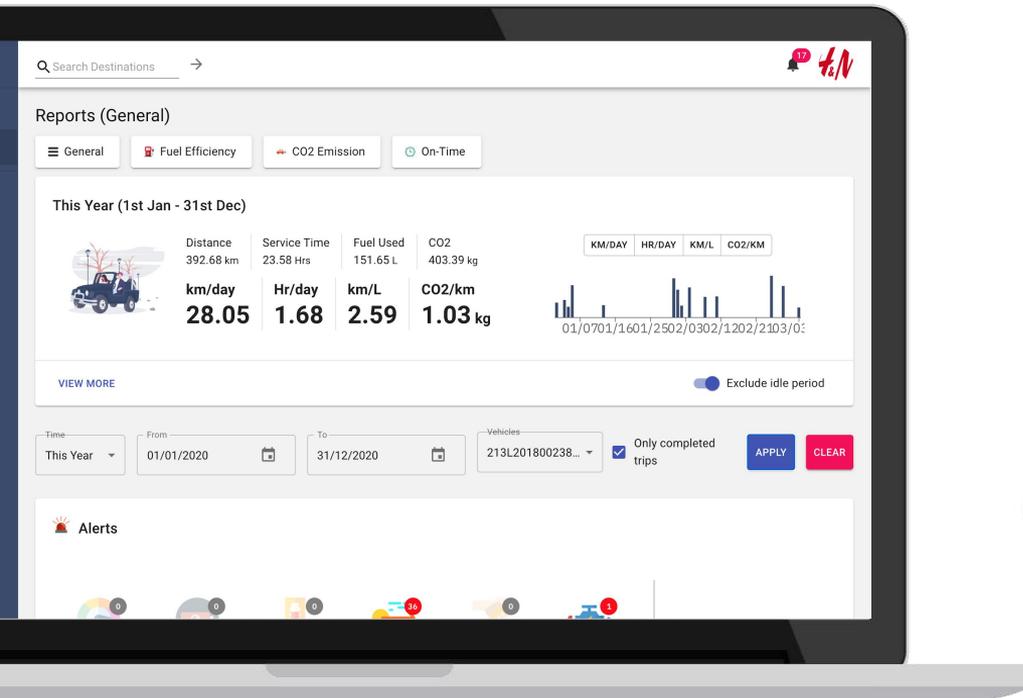


Serving 80+ different sizes of vehicles in Hong Kong



# 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



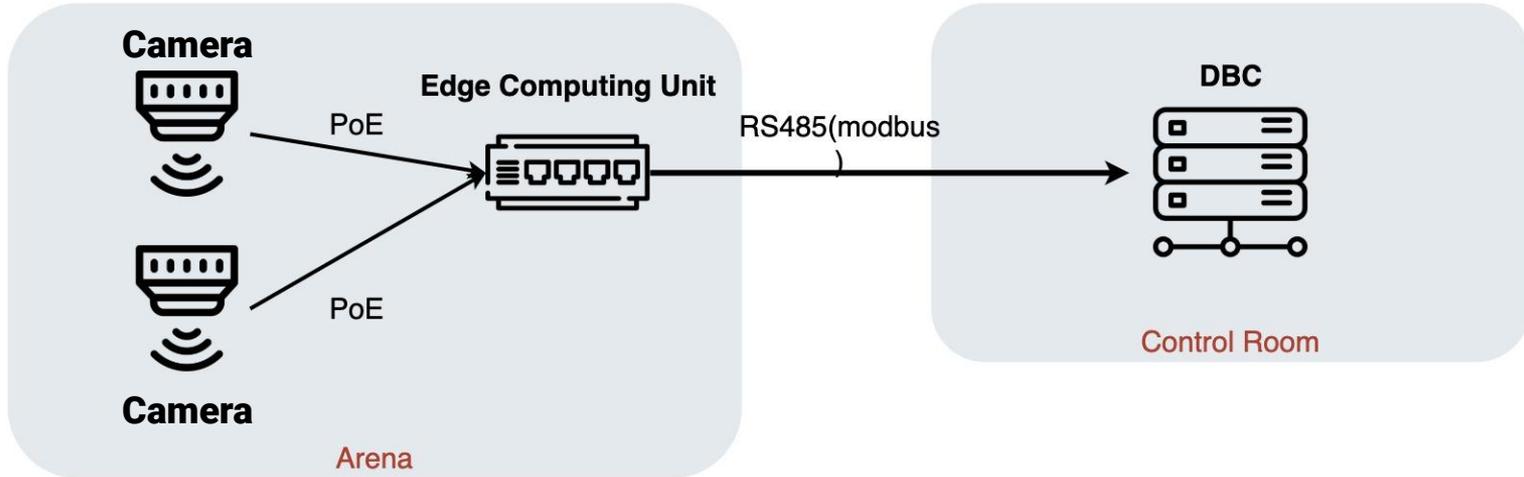
### Lift/Room

- 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

## Contact

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