



ALPHA AI

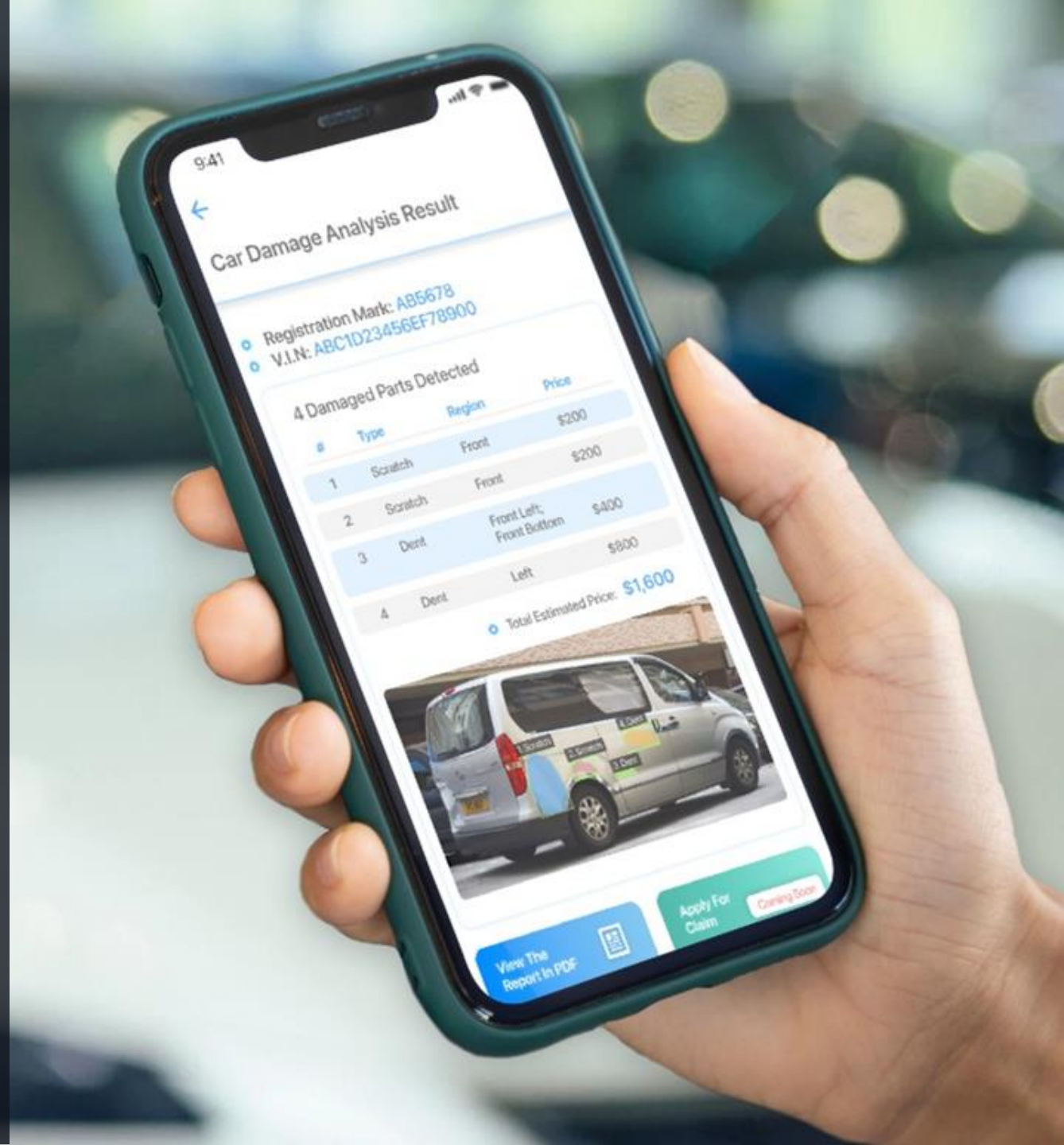
Innovate with AI for Enhancing Public Services
(利用人工智能提升公共服務)

WWW.ALPHAAITECH.COM

ALPHA AI

Make Fleet Smarter via AI IoT Dash Camera

WWW.ALPHAAIAUTO.COM



9:41

Car Damage Analysis Result

Registration Mark: AB5678
V.I.N: ABC1D23456EF78900

4 Damaged Parts Detected

#	Type	Region	Price
1	Scratch	Front	\$200
2	Scratch	Front	\$200
3	Dent	Front Left, Front Bottom	\$400
4	Dent	Left	\$800

Total Estimated Price: **\$1,600**



View The Report In PDF

Apply For Claim

Getting Started

Settling Car Accident is always a Painful and Lengthy journey



Surge in Insurance Premiums

High operation cost for Fleet



Hard to Identify Dangerous Driver

Only after the car accident

3+ weeks

Long Claims Cycle

3 weeks per claim

20%
Fraud

Fraudulent Case

Exaggerating the damage

CARSH

AI CAR INSPECTION TECHNOLOGY

Automate Insurance Claims Process

+ TECHNOLOGY



Upload Car Photo

Highlight each individual scratch damage



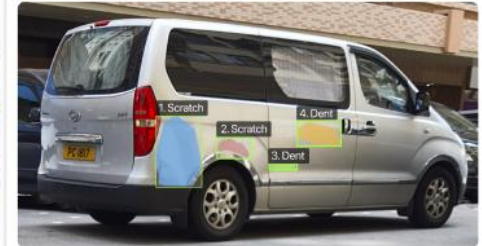
Damage Recognition

Detect tiny damages that a human may miss

4 Damaged Parts Detected

#	Damage Type	Region
1	Scratch	Rear Fender
2	Scratch	Rear Fender
3	Dent	Rear Door
4	Dent	Rear Door

Total Estimated Price: \$12,000



AI Inspection Report

PCT Worldwide Patent (Pending)

EDGE AI DASH CAMERA

✓ 8 CORE CPU

Reduces data transmission

✓ 1080P CAMERA

Crowdsourcing visual data



✓ SIM CARD/E-SIM

Video Streaming to
Dashboard

✓ G-SENSOR & GPS

Track the vehicle data

ACCIDENT RECONSTRUCTION

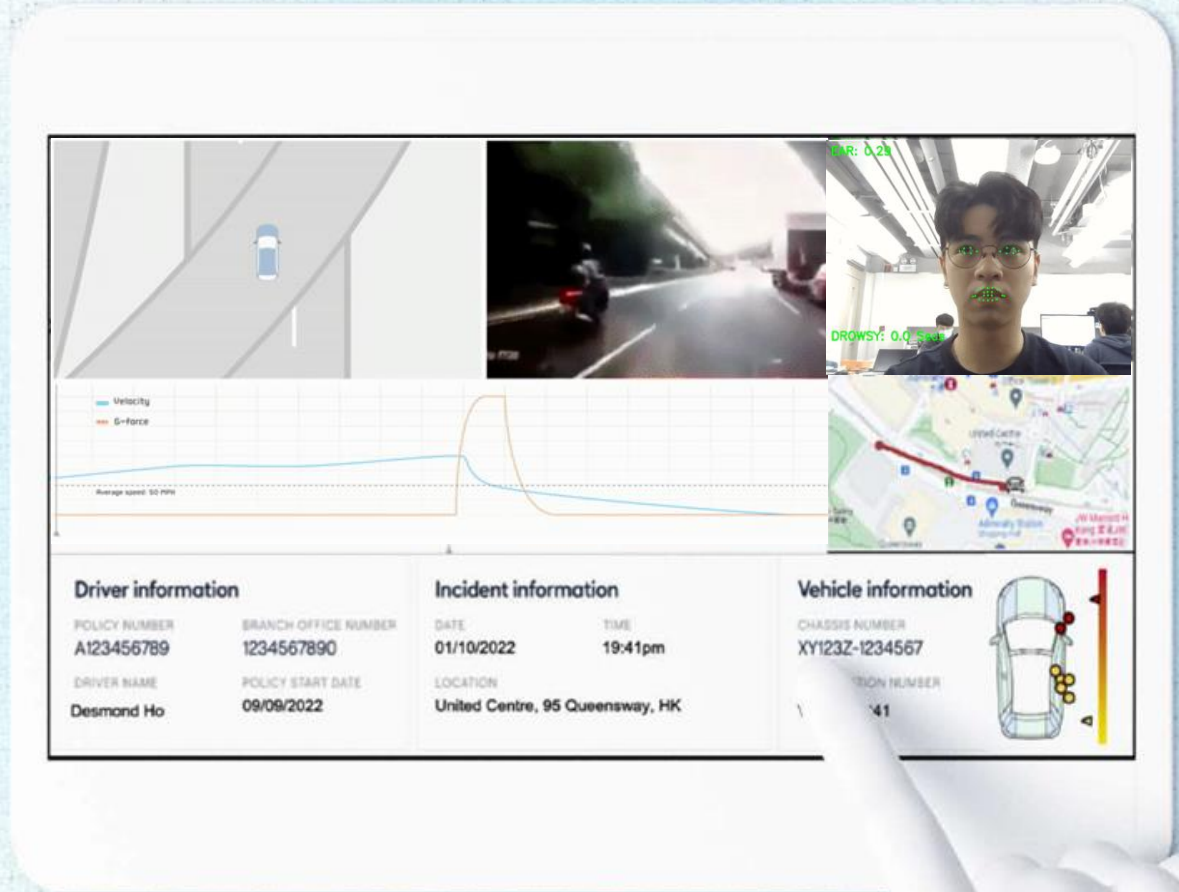
SIMULATION

SLEEPING ALERT

DRIVING SCORE

IMPACT FORCE

Our sensor data and camera videos can generate instant reports at the accident scene



AI DASH CAMERA ON CONSTRUCTION VEHICLES

Our sensor data and camera videos can generate instant reports at the accident scene

GPS AND G-SENSOR

SLEEPING ALERT

FATIGUE MONITORING

DISTRACTION



AI Dash Camera would be Beneficial to Public Service



Evidence for Law Enforcement

Camera captures details: support law enforcement efforts in case of incidents



Identify Risky Drivers

Provide trainings to drivers to enhance the road safety



Municipal Fleet Damage Evidence

Provide evidence in case of damage to public property



Efficient Parking Enforcement

Document violations and monitor parking areas



Emergency Service Documentation

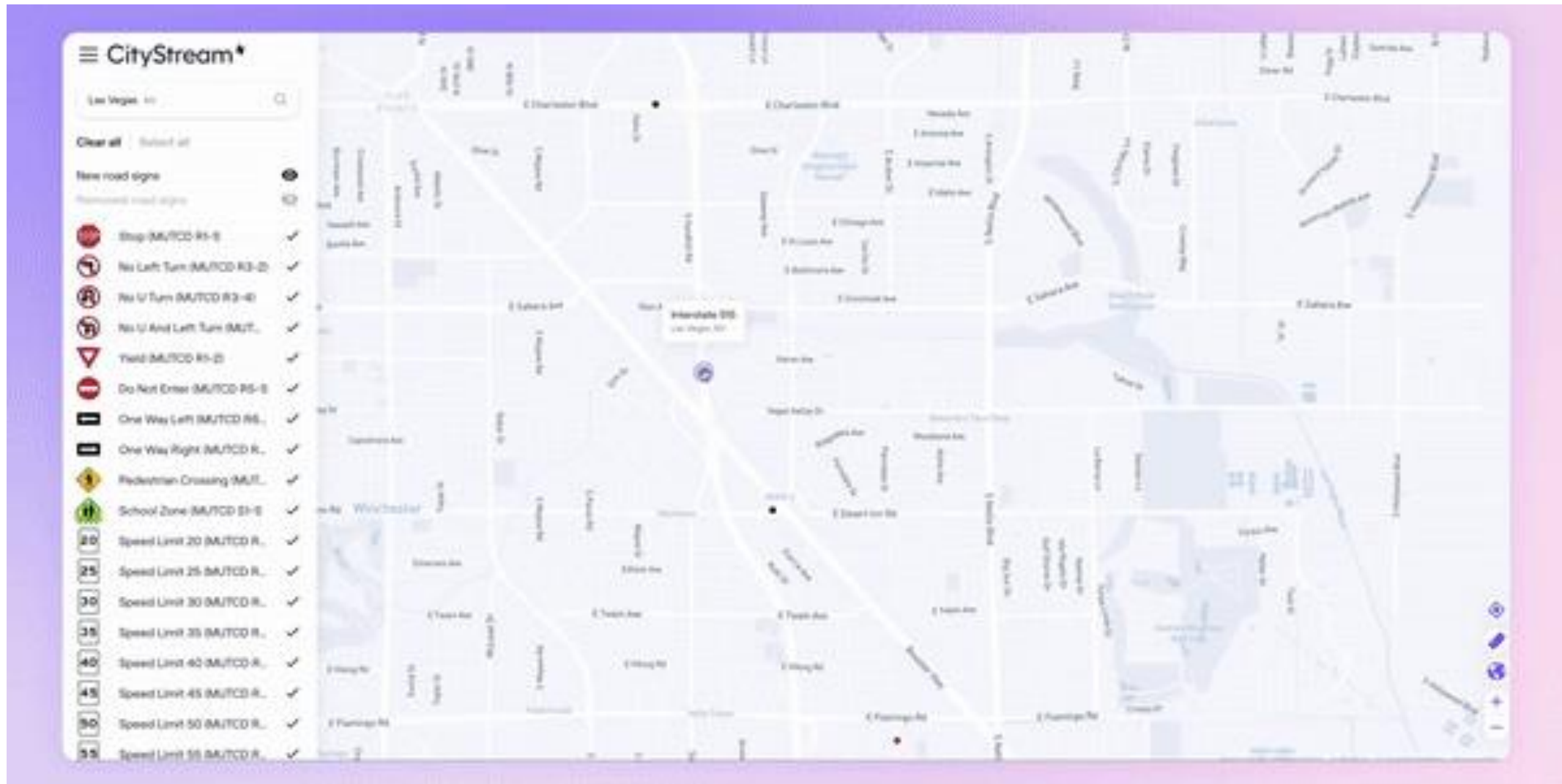
Document response to incidents, assist in analysis and training



Traffic Management and Analysis

Detect congestion and assist in traffic management

US Example: Nexar AI Dash Camera can Manage Road Assets





ALPHA AI

Make Building Inspection Accurate
with 3D modeling and NDT Sensors

政府部門應用創新及科技的成功案例

環境保護署使用「無人機」、「遙距機械人」及「無人潛水艇」調查..

在打擊非法排放污水至河流方面，環境保護署（環保署）的執法人員所面對的挑戰，是要在非法活動進行期間迅速到達..



建築署以人工智能科技和航拍技術輔助檢測政府建築物的外牆

建築署負責為全港超過8,000幢政府建築物進行預防性維修，當中包括定期檢查外牆是否有裂縫及其他缺損，過程中需要..



環境保護署使用「聲學相機」確定固定噪音源的位置

香港高樓大廈林立，環境複雜，噪音往往有多個類別和來源，要迅速確定被投訴的目標噪音，絕非易事。過往在調查工商..



Tractions
Business Partners

Creating more tractions

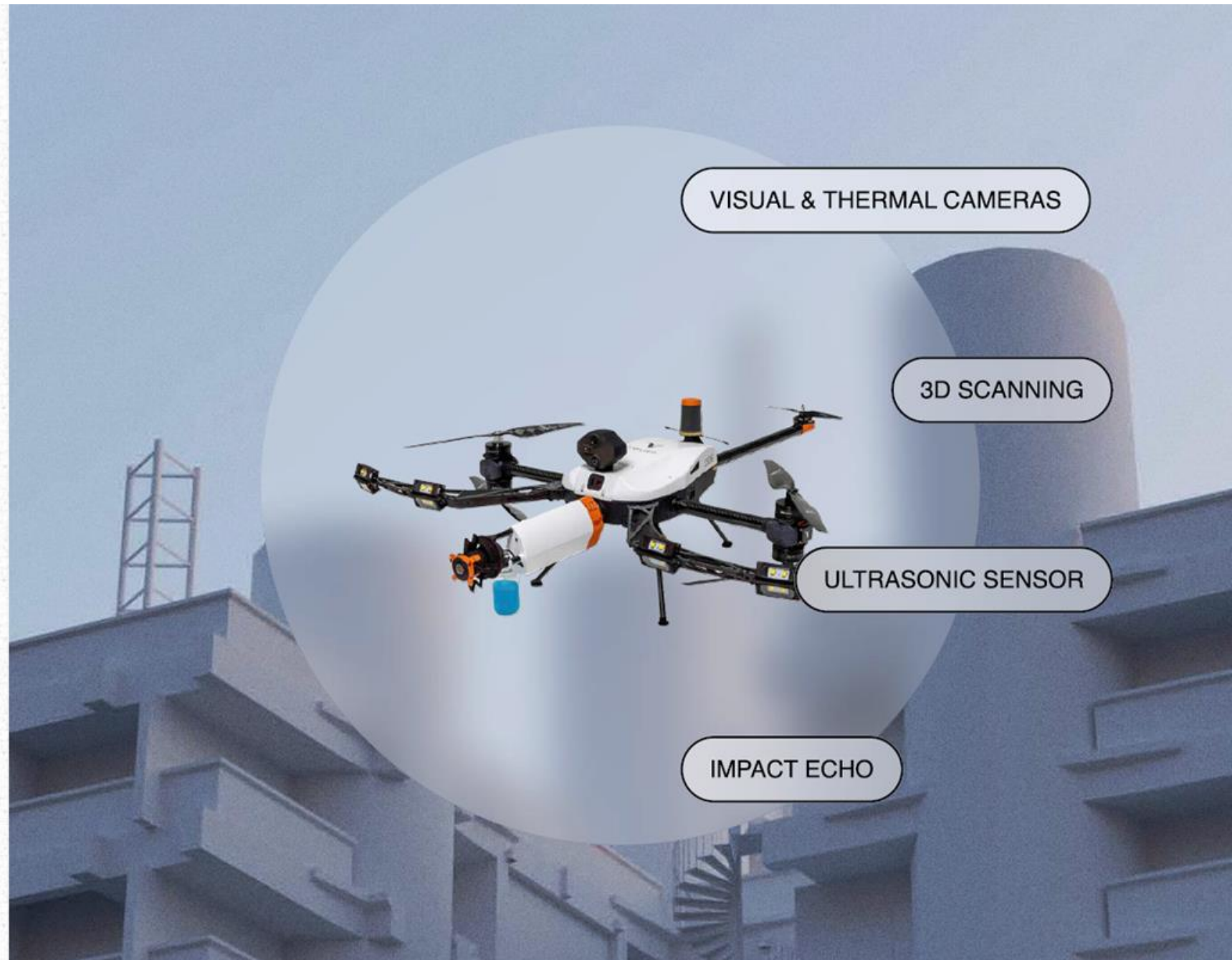


**HONG KONG
HOUSING SOCIETY**
香港房屋協會

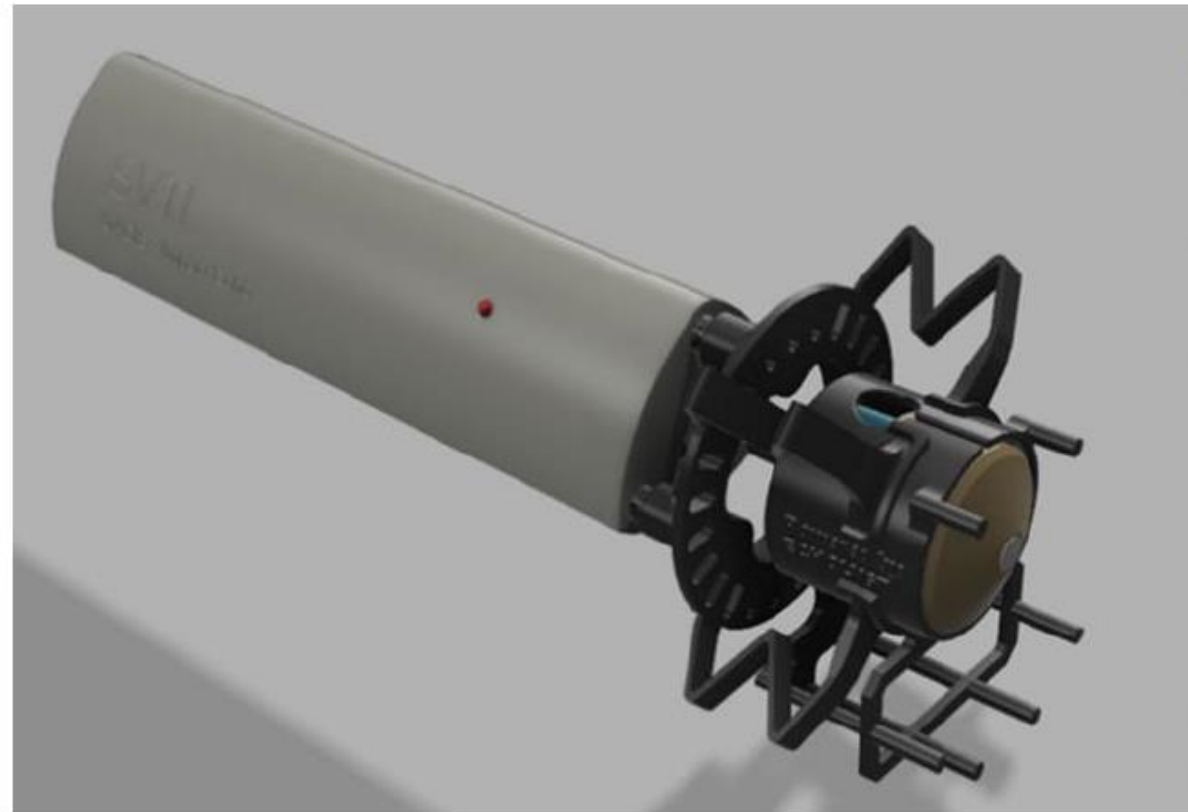
- The manual inspection process with bamboo scaffolding is **time-consuming and labor-intensive**
- Poses significant safety risks due to exposure to **heights and other hazards**

NDT BUILDING INSPECTION TECHNOLOGY

Introducing AI-powered building inspection for increased safety and data-driven insights. Detect structural issues remotely and optimize maintenance with predictive analytics.

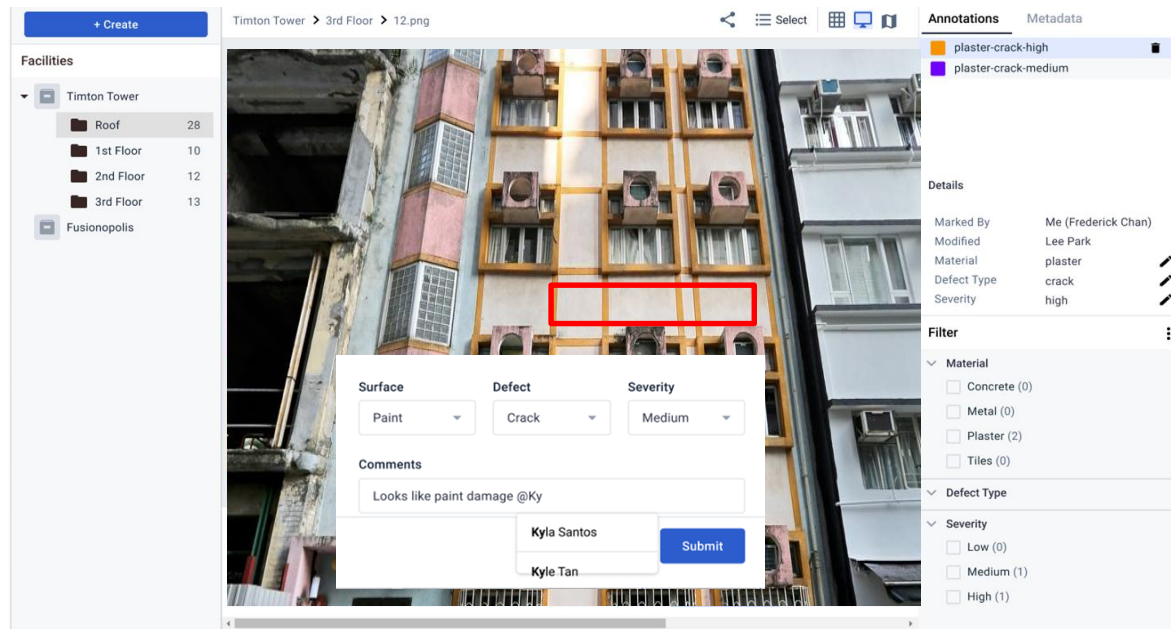


Payload with the IE probe on the Drone



Drone Inspection Detects 15+ types of Facade Defects

Visual Inspection



Detects 15 types of building and facade defects

- Concrete Crack
- Water Stains
- Paint Peeling
- Rust
- Mould
- Concrete Spalling
- Paint Crack
- Disengagement
- Wall Tile Crack
- Corrosion
- Surface discoloration
- Paint Blisters
- Block Wall Crack
- Stains
- Water Leakage

Thermal inspection



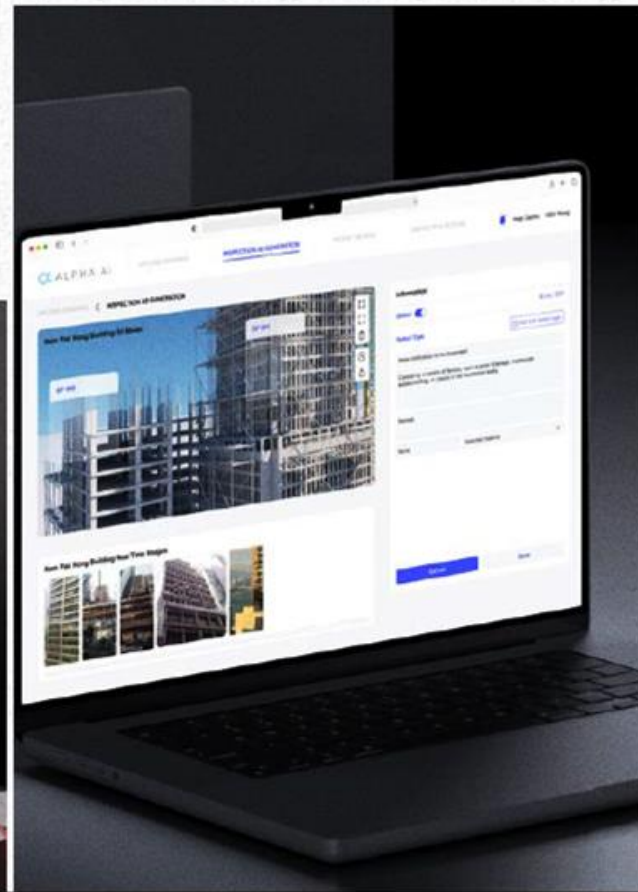
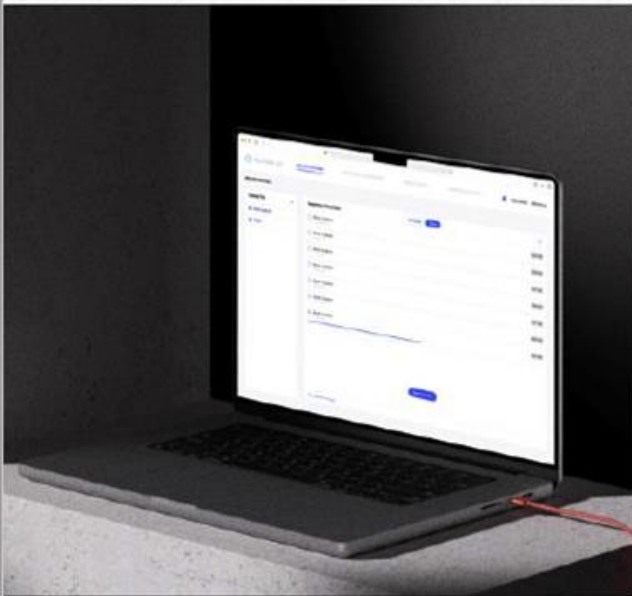
- **Privacy:** Hide the Human Face
- **Non-visual data:** Detect moisture and water leaks, and identify hotspots in wiring and other electrical components

3D GENERATION

Crack analysis
Real time 3d model with images

UPLOAD IMAGES

Drones inspection captures



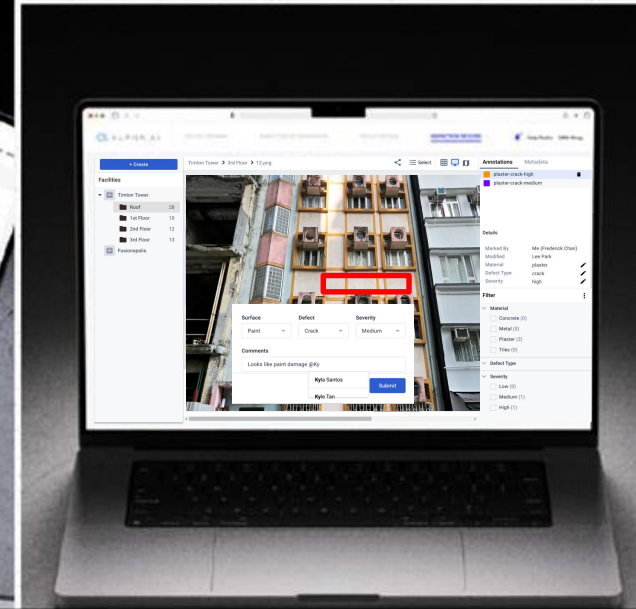
DETECTION REPORT

Data upload and result export



RECORD FOR COMPARE

Inspection data record with same
3d model and images



AI Drone Inspection would be Beneficial to Public Service



Infrastructure Maintenance

Conduct inspections of infrastructures, identify maintenance needs



Firefighting and Rescue Operations

Provide situational awareness to responders, enhancing their effectiveness and safety



Environmental Monitoring

Identify ecological concerns, make informed decisions



Urban Planning and Zoning

Analyze development, land use compliance, and identify areas for improvement



Historic Preservation and Conservation

Create digital archives, monitor structural integrity, and aid in restoration



Disaster Management

Rapid situation assessment: support resource allocation and coordination



Other Applications

SITE AND WORKER MONITORING

This includes site cleanliness, worker PPE, workers working at heights without wearing safety belts, and fall detection.

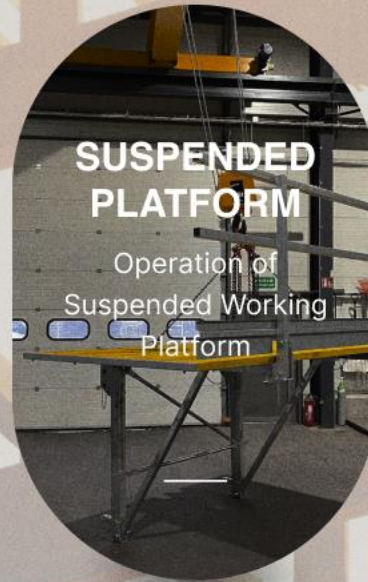
DANGER ZONE ANALYSIS

Unauthorised access to restricted zones, danger zones, lifting zones and no-parking zone (detection zones and alerts should be configurable)



VR TRAINING

Our project proposes the use of VR construction training scenarios to address the issue of construction workers' lack of understanding and experience during their work.



Team Management Team

Team background from business, drone, 3D and machine learning



Forbes

Desmond Ho

CEO

Named "Forbes 30 Under 30 (Asia) 2020 - Entrepreneur"

A serial entrepreneur with 5+ years of startup experience

MPhil in Planning, Growth and Regeneration - University of Cambridge

BA in Economics - Durham University

Vice President - Cyberport Startup Alumni Association

AI Startup



Wilson Suen

CTO

5+ years of full-stack developer and software engineer.

BA in Computer Science Tripos - University of Cambridge

BSc in Quantitative Finance - Chinese University of Hong Kong

Software Engineer - DreamsAI

Consultant - Computer & Technology Limited

Computer Science



David Ho
3D Design



Martinda Fikri
3D Design



Ben Choi
Drone Engineer



Macro Lee
Machine Learning



Ivana Law
Machine Learning



William Mulianto
Full Stack Developer



Raymond Purnomo
Backend Developer

3D Design

Machine Learning

Software Engineer

Media Coverage

Over 20 media interviews in 2022



Incubatee

Angel Investment



SG Accelerator

Smart Living Award

Darren speaks with an app developer that champions a technology that helps car owners calculate the damage to their car when they get into a fender bender



TVB Pearl Interview



THANK YOU

Mobile App

Address

Unit 32, 4/F Smart Space, Cyberport 3

Phone & Email

+852 9460 5454
desmond@alphaiauto.com

Website

<https://www.alphaiauto.com>

