



Desktop & Mobile friendly

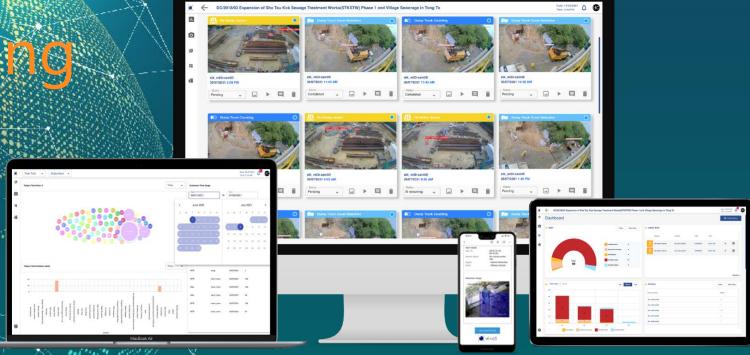
Real time instant alerts

Video clips review

3D model visualization

Work progress report

Log data analysis



50+

Pre-built Al Modules promoting E-S-G

R&D since 2016, 6+ module based research papers in international journals of repute



ENVIRONMENTAL



Carbon Footprint Emission



Dump Truck



Site Entrance

Hygiene

Monitoring

Dirty Water

Detection

Gas/Water

Leakage

Detection

Waste Management

Illegal Dumping Detection



Fire/Smoke Detection



Dirty Wheels Detection





Dirty Roads Detection



SOCIAL



No Shackle Detection



Tower Zone Danger Zone



Anti Collision (People)



Danger Behaviour Detection

Anti-COVID



No Face Mask

Detection

No Safety

Helmet

Detection

No Safety

Goggles

Detection

People/Objects Fall Down Detection



Danger Zone Intrusion



No Safety Jacket Detection



No Safety Harness Detection



No Clothes Detection



Smoking Detection



Work at Height



No Outrigger Detection



Non-Compliance Behaviour Detection



Anti Collision (Object)







Deep Learning based collision detection system for construction sites: System Architecture and working of viAct's Smart Module Gary Ng¹, Hugo Cheuk², Lui Cheung Chun³, Surendra Singh⁴, Baby Sharma¹*

111 Fui Ip-St East Tong, Hong King

MOTRALY
contains related to markets collision to its fact, a matter of great concern in the construction industrication and or construction since generally more than to their expension oil, themse markets collision and market collisions.

The contains above contains and markets markets collisions which are not by the act recent for markets related to the collisions.



GOVERNANCE



Tracking



Progress Water Barrier Tracking (Wall)



Traffic Cone & Fencing Detection



Excavation **Progress Tracking**



People Counting/ Unauthorized Tracking Access (Vehicle)



Scissor Lift Operation



Dump Truck

Counting/

Tracking



Face Recognition



Vehicle License



Unauthorized Access (People)

Machine

Counting/

Tracking



Material Classification

Over 100 Deployments Across Asia



AECOM





















































AI Modules User Cases

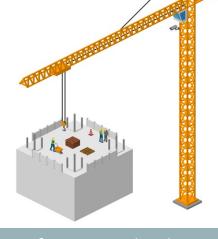
Safety | Productivity | Environmental | Inspection



Tower Crane Monitoring



USE CASES



Roof Top Monitoring

Building Inspection

Machinery Anti-collision



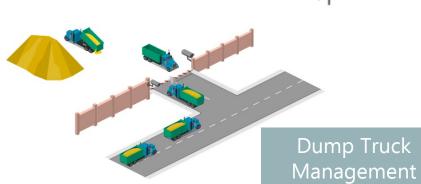








Progress Checking



PPE Violation Monitoring

(1) Safety Helmet Detection

(2) Safety Harness Detection



(5) No Clothes Detection



Clients

















(3) Reflective Vest Detection

(4) Face Mask Detection



Intrusion Monitoring

(1) Worker enter danger area under excavation



(3) Water Barrier Pattern Detection



(2) Vehicle enter human path



(4) Unauthorized Access – Only blue helmet allowed



Clients

















High Level Working Monitoring

(1) Worker climb up ladder



(2) Working at scissor lifts



Clients



Build King



(3) People Fall Down Detection





Mobile Crane AI Monitoring System –

viMac (DZASS)



Smart Collision Detection



Smart Intrusion Detection



Lifting Danger Zone



Lifting Object Recognition



Machinery Operation Tracking





(DZAAS) Danger Zone AI Alert System

Right Now

Alert all stakeholders :

- Crane operator (monitor & sound alarm)
- · Workers near cranes (sound alarm)
- On-site safety officers or site agent (mobile alerts)

Office managers and top management (reports & dashboard)



Only 3 Components

Component 1 – IP Cameras



Component 2 – Al Processor



Component 3 – Monitor w/ speaker

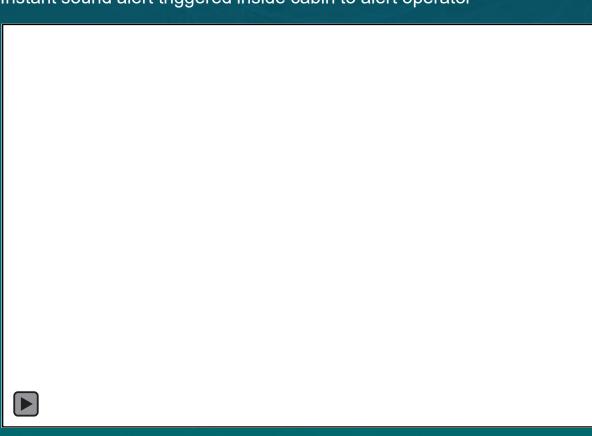


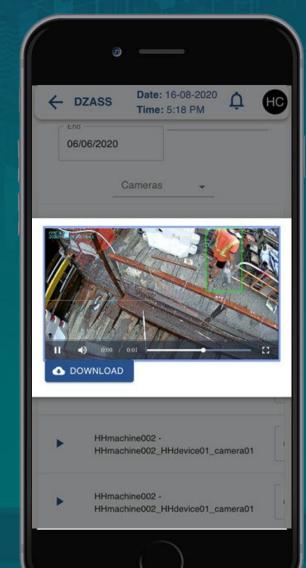




DZASS – Real Time Local & Remote Alerts

Instant sound alert triggered inside cabin to alert operator





Mobile alert to review clips who walk nearby the crane

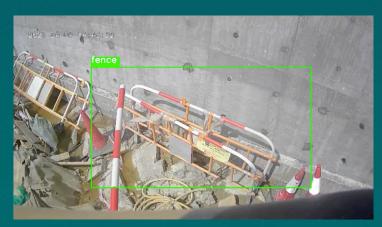


DZASS Anti-Collision

(1) Detect any people walk close before moving / turning



(3) Detect crane too close to fence or traffic cone



(2) Detect while crane turning



(4) Detect crane too close to water barrier



Clients











Dump Truck AI Monitoring System



Truck Cover Detection



Dirty Wheel Detection



Dirty Road Detection



Car Plate Recognition



Queuing Time



Cycle Time







Dump Truck Management

(1) Dump Truck Counting



(2) Dump Truck Cover Detection



(3) Dirty Wheel Detection



(4) Licenses Detection



Clients













Unauthorized Access Control – Face Recognition

Alert will be sent out when unidentified workers want to entering the zone entrance. Only pre-defined workers can be granted the access and open the door gate











VIMOV



Our Advantages







Simple

- No coding skills required
- 3 steps to implement

Remote

- One camera | Multi detections
- 'One platform | Multiple sites management

Synergy

- Technology Integration, super easy!
- 4DBIM, Robotic & IoT



Value to Customers



70% •

Man hours for monitoring, inspection & supervision



10x

10 times faster & precise than human responses & follow up actions



24/7

Around the clock monitoring No human involvement, Non-stop





- +100 Cameras
- Simultaneously



No human being can monitor more than 6 screens at same time!



Contact us to know more





monitoring



viAct Twitter



viAct Youtube



viAct LinkedIn



CEO Gary's LinkedIn



COO Hugo's LinkedIn

