



How AI monitoring can improve safety and productivity for Hospitality, Property Management and Construction?

Driving (Achieving) Safe Outcomes Through Virtual Business Connections and AI Solution Webinar

28 April 2020



What can we do under crisis ?

How AI monitoring can help ?

Today takeaways (use cases sharing)



Trade War ! COVID19 ! Oil Price War !
Everyone need to prepare economic downturn?

YES & NO

“**OUT**” = Think OUT of
Get/Act OUT of comfort zone
Try OUT of new approach



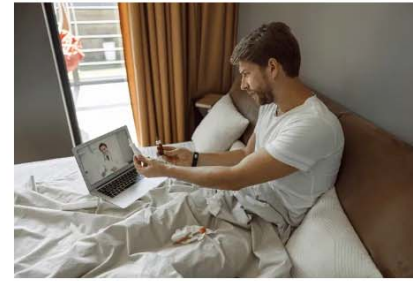
Business Never Stop



Virtual
Expo



Virtual
Recruitment Day

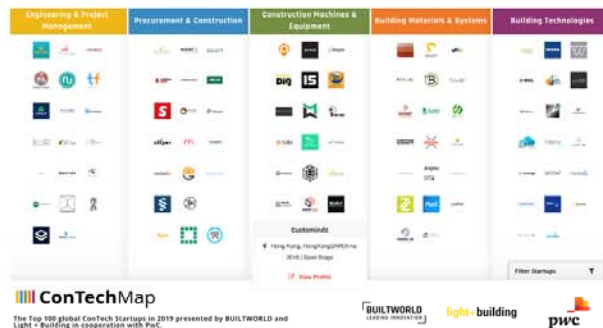


Remote
Consultation



Virtual Staff
Orientation

How we keep our momentum during remote work ?



E-branding
(Top 100 Global ConTech Startups 2019)



Online Contribution
(Pre-approved product of CITF by HK Development Bureau)



HKSSG
Hong Kong Startups Support Group

E-networking
(+1000 members startup community)



E-engagement
(Build Team and trust your teammates)



E-CSR
(Give back to the society)



Remote R&D
(AI Application Research Lab)



AI MO
AS

80%

Construction sites, Buildings,
Hotels, Shopping Malls
has **Real Time Monitoring**
to improve **Security,**
Productivity & Safety



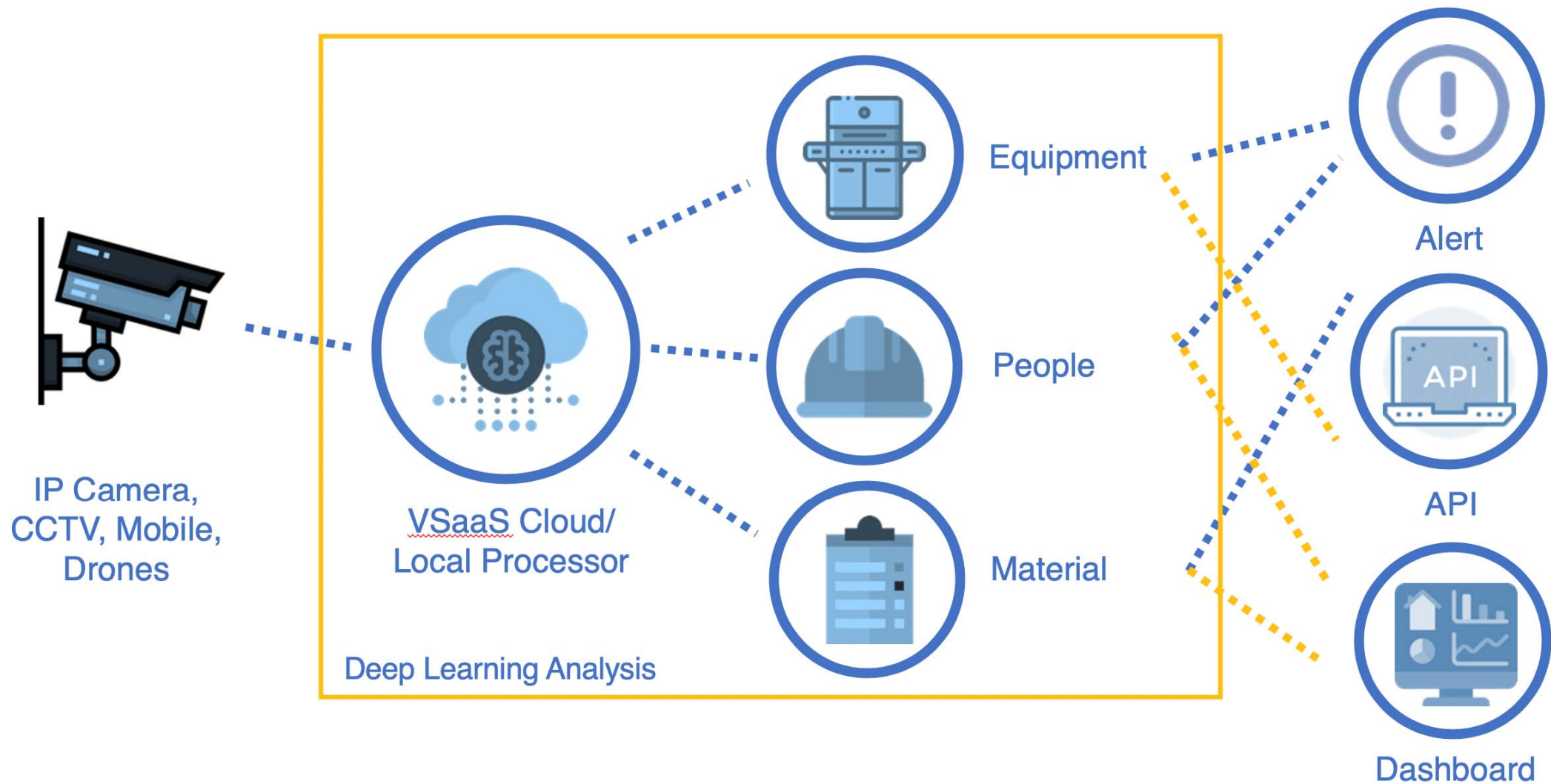
But still by

Human

while data is **Late & Incomplete**



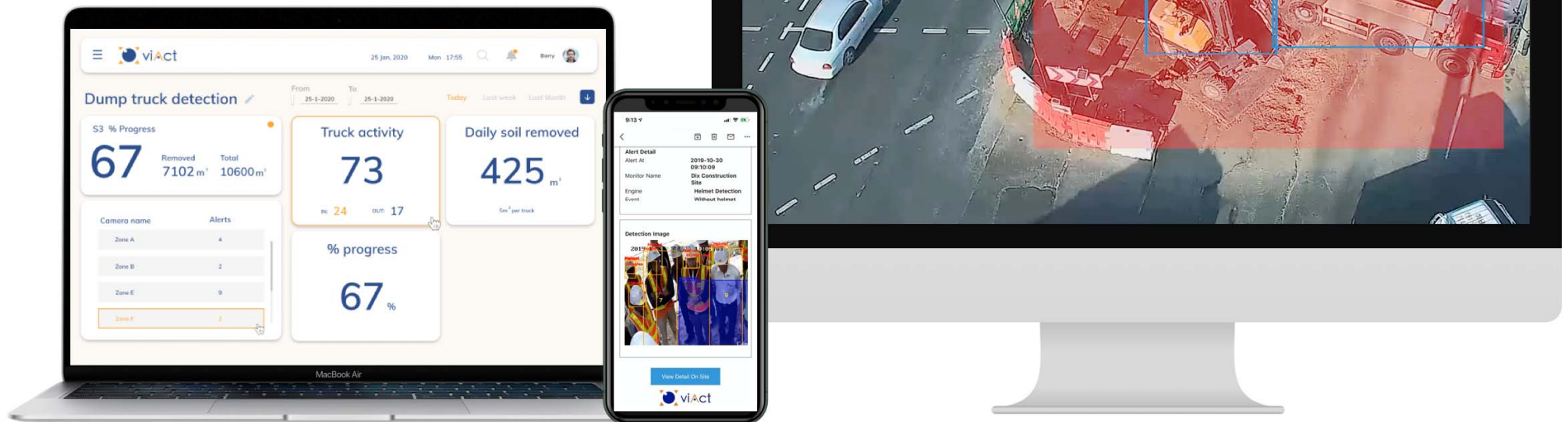
SOLUTIONS



INTROUDCTION OUR PRODUCT - viAct.ai

Asia first AI Monitoring Cloud Platform

Product of Customindz Ltd.



Safety measures
People counting
Action & Motion

People

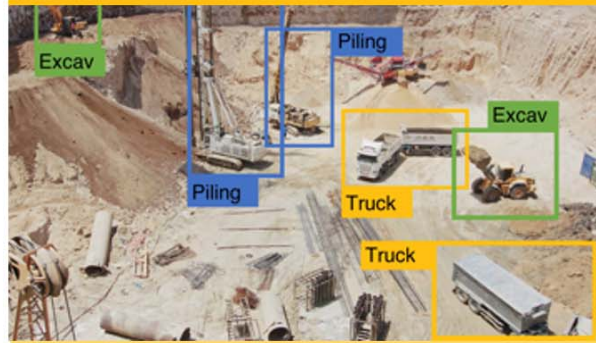


Simple

non-coder
fast set up

Specified Vehicles
Machinery
Work Progress

Equipment



Extensible

detection & connection

Type of materials
Log data
Location

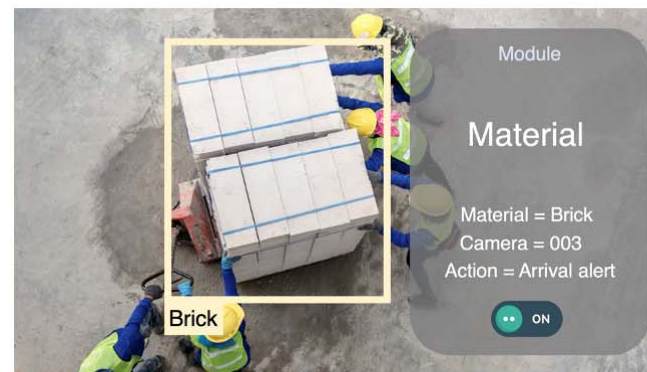
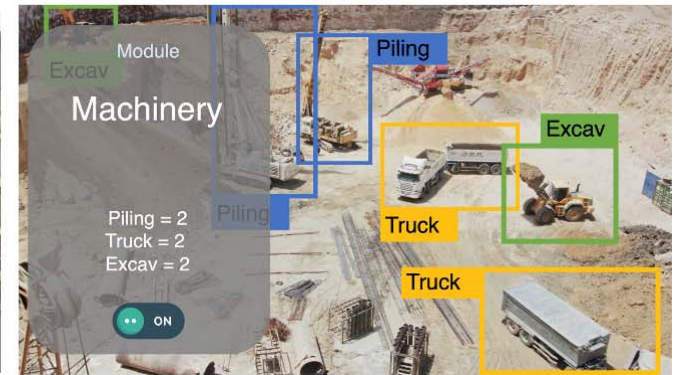
Material



Collaborative

user-based pricing &
customization

5 CORE AI MODULES



AWARD WINNING AI SYSTEM



Featured in Gammon Construction
Sustainability Report 2018



PUBLIC
SAFETY



PERSONAL
SAFETY



PRODUCTIVITY



USE CASES

USE CASES



PUBLIC SAFETY

viAct.ai launch the 1st Face Mask Detection AI since Beg Feb 2020,
7 days earlier than Baidu release their model

2/7/2020

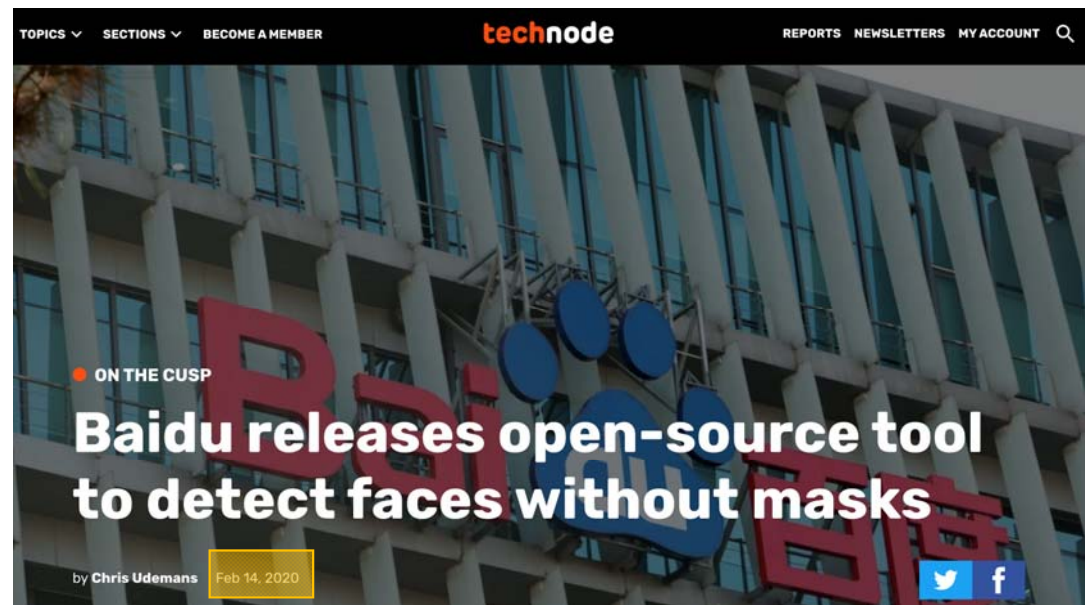
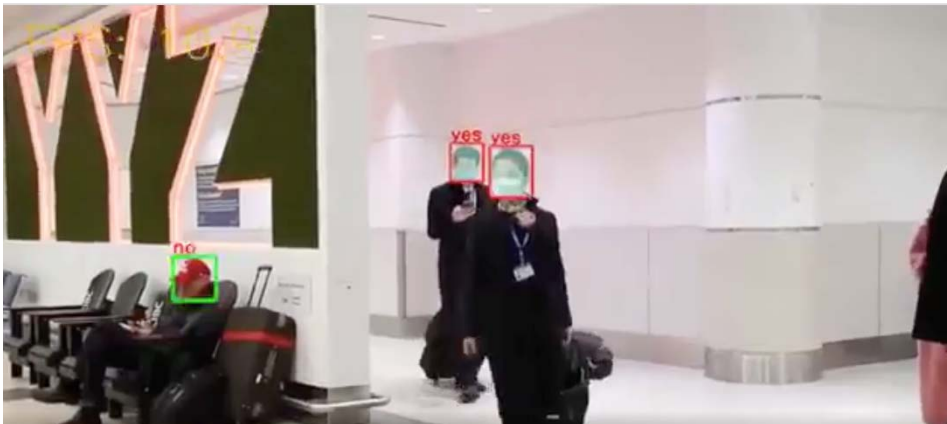
• [Sponsor now](#)

...

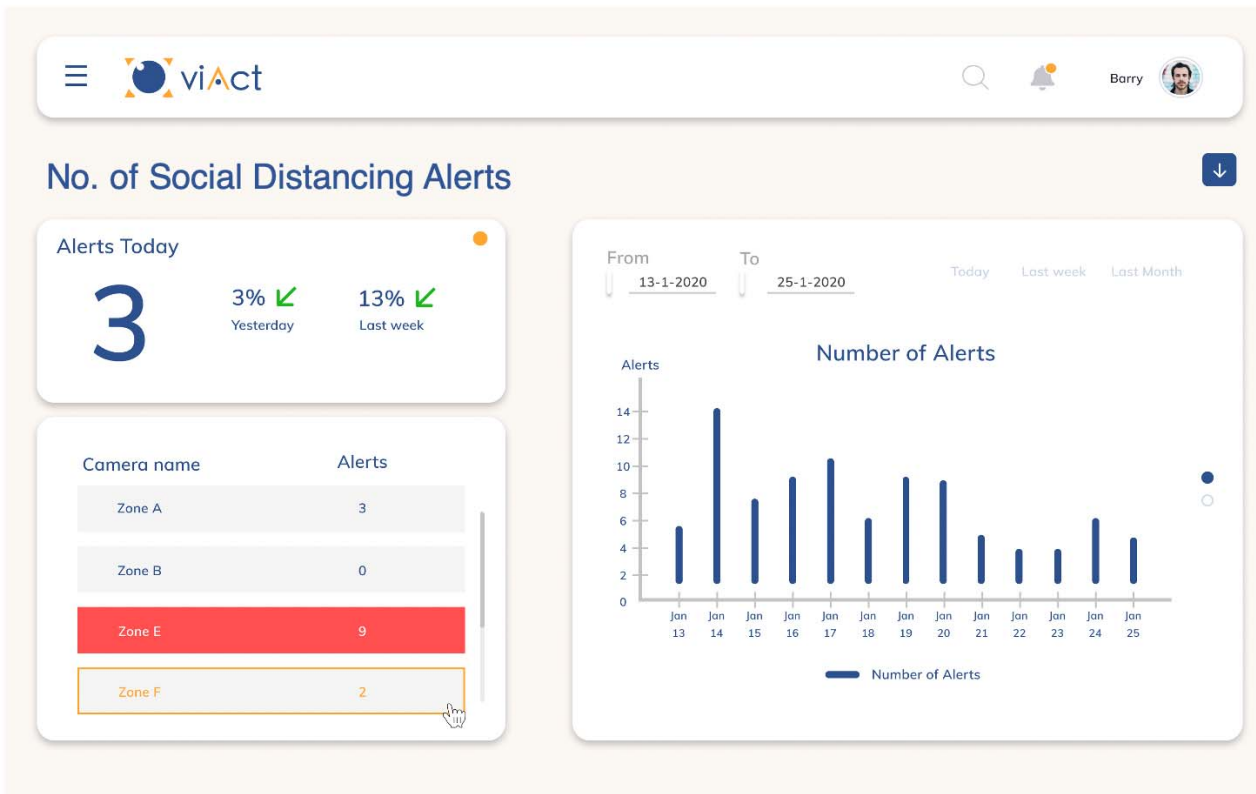
viAct.ai
125 followers
2mo •

#viAct.ai is volunteering our AI Experts and Consultants to help any Countries and State governments to fight against **#coronavirus**.

...see more



PUBLIC HEALTH & SAFETY



Cleaning procedure measurement
Cleaning gesture detection





FLY-TIPPING ALERT

Data Collected : Vehicle license no. / Type of material / Date & Time
Application : Street, Waste disposal centre, Back alley of restaurants



WASTE CLASSIFICATION



Detect any unexpected waste dumped in wrong container



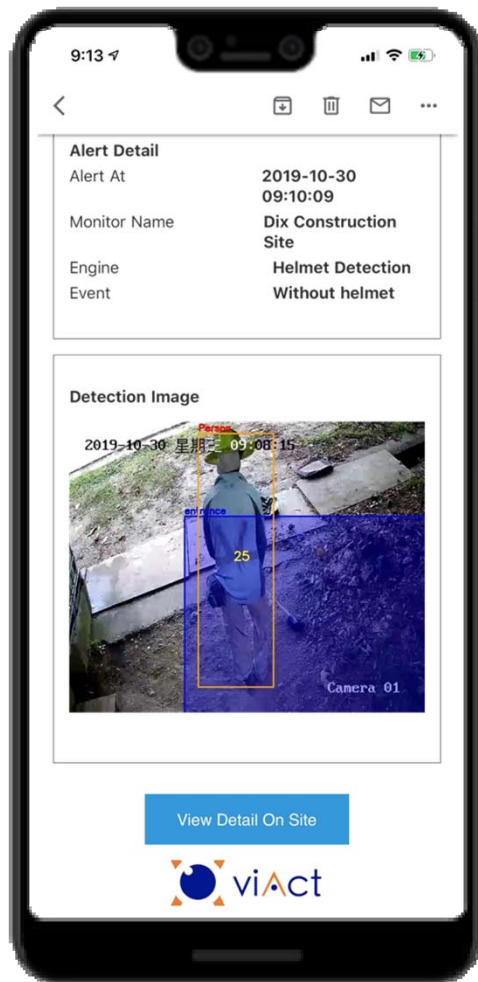


PERSONAL SAFETY

ALERT SHOULD GIVEN OUT BEFORE ACCIDENT !



SAFETY MEASURES DETECTION



Safety helmet and clothes detection to ensure all workers wearing PPE before entering the site

TOWER CRANE SAFETY



DANGR ZONE MONITORING

OCCUPATIONAL SAFETY

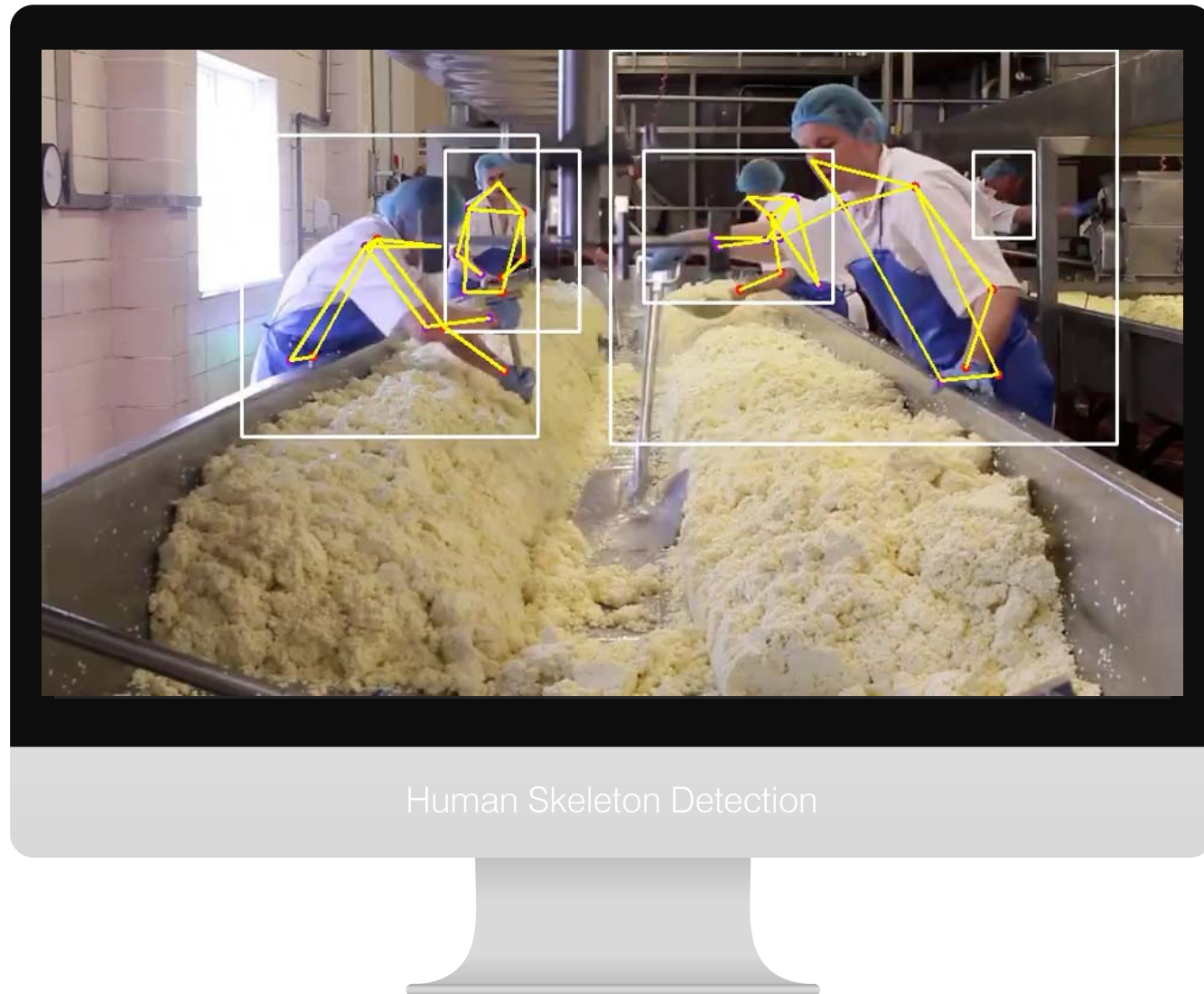
Prevent workers from injury and assist in skill/knowledge transfer

Data Collected :

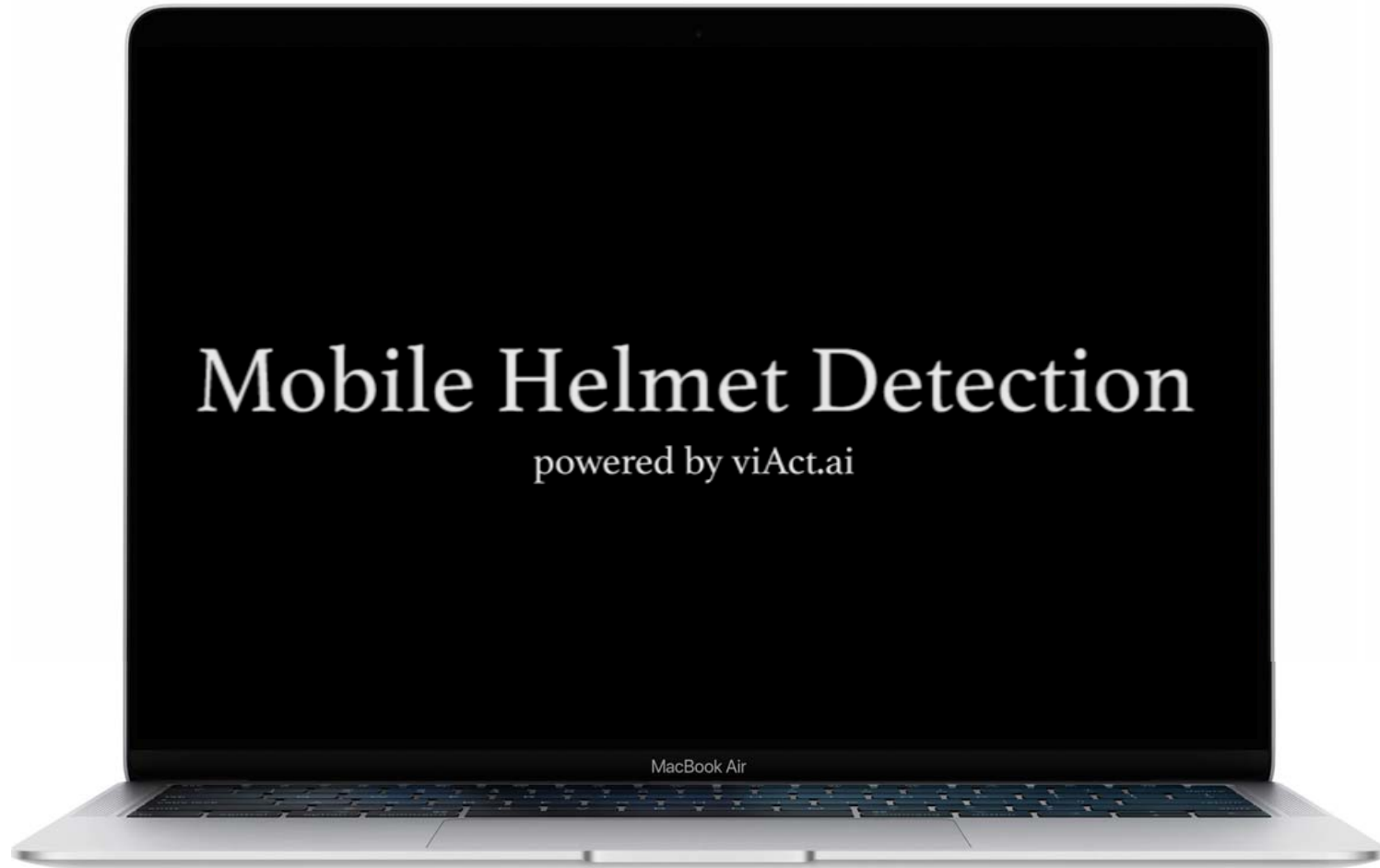
1. No. of incorrect actions
2. Degree of wrong positions
3. Staff identity for further training

Application Areas :

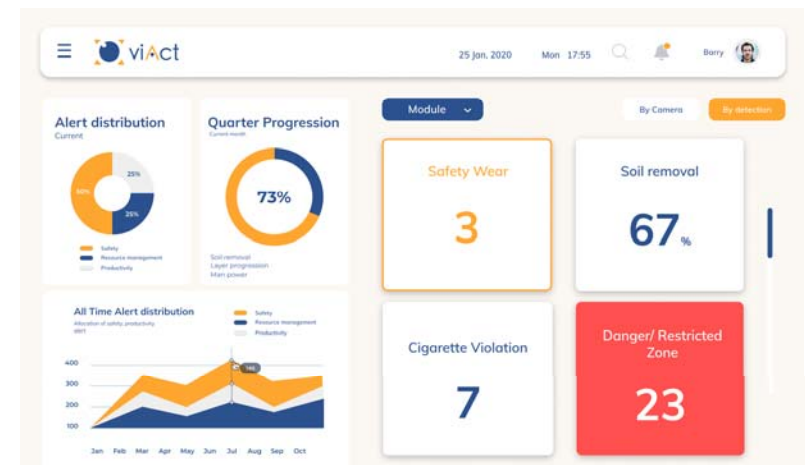
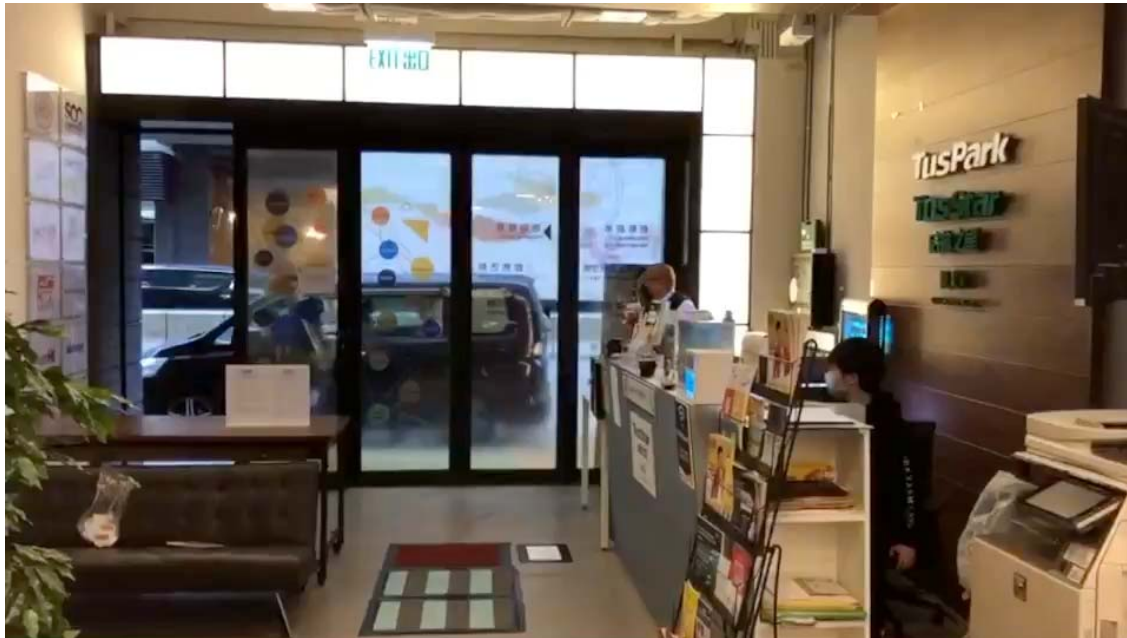
- Factory
- Hotel
- Warehouse
- Central Kitchen
- Gardening



ON-SITE SAFETY PATROL



ANTI-CONTAMINATION CALL FOR ACTION



Video surveillance → Log data → Dashboard → ACTION !



PRODUCTIVTIY

VISITORS MOBILITY TRACKING

Optimisation of traffic flow and room occupancy

Data collected :

1. No. of people
2. Total people inside a room/area
3. People flow
4. Date & Time

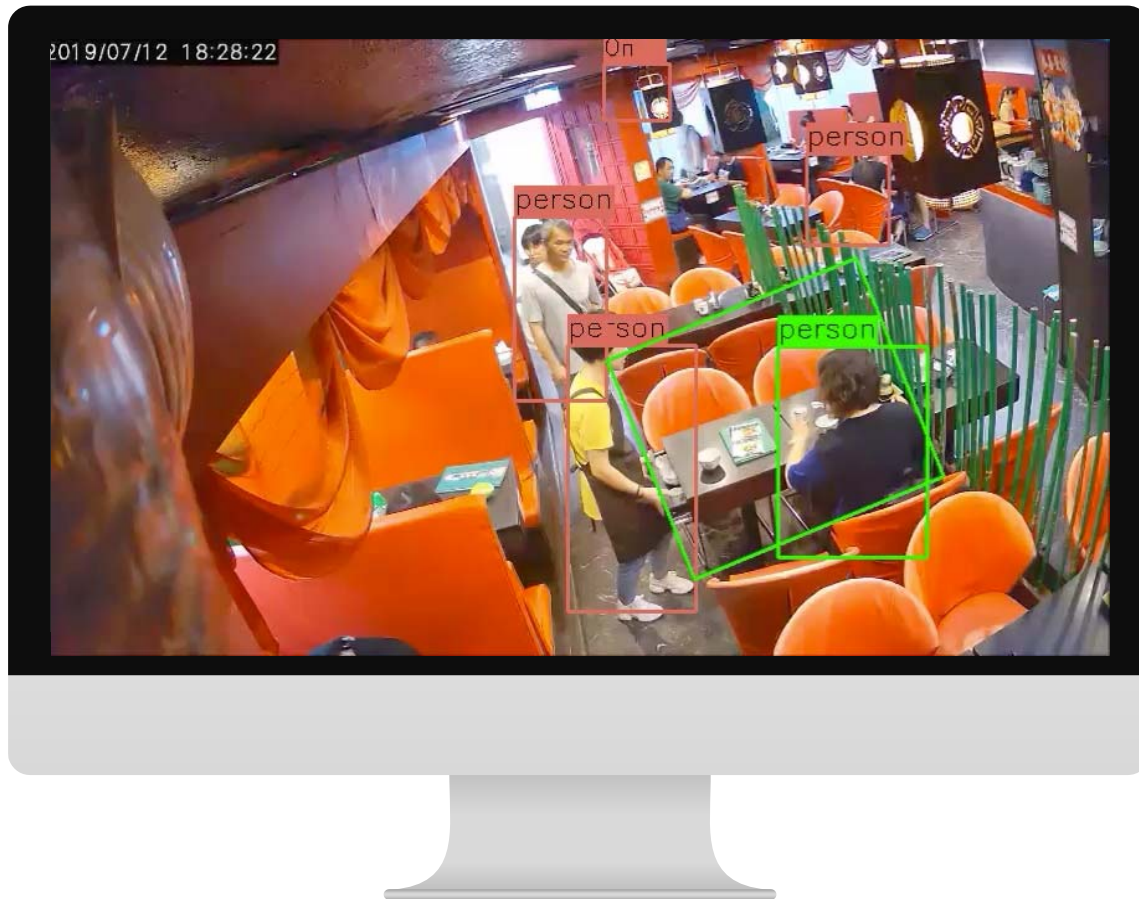
Applications Areas :

- Exhibition hall
- Shopping mall
- School
- Commercial complex



OCCUPANCY RATE CALCULATION

Table turnaround calculation for restaurant



Data collected :

1. No. of people
2. Occupancy rate
3. Staff work flow
4. Date & Time

Applications Areas :

- Restaurant
- Café
- Clubhouse
- Parking lot
- Gym room

WORKERS CLASSIFICATION

Checking performance of different work types base on uniform-id



+ ADD CAMERA

CAMERAS

ACCOUNT

Real-Time

Detectable Clip

Helmet Looping  ENGINE CONFIGURATION ALERT CONFIGURATION



Realtime Stat Result

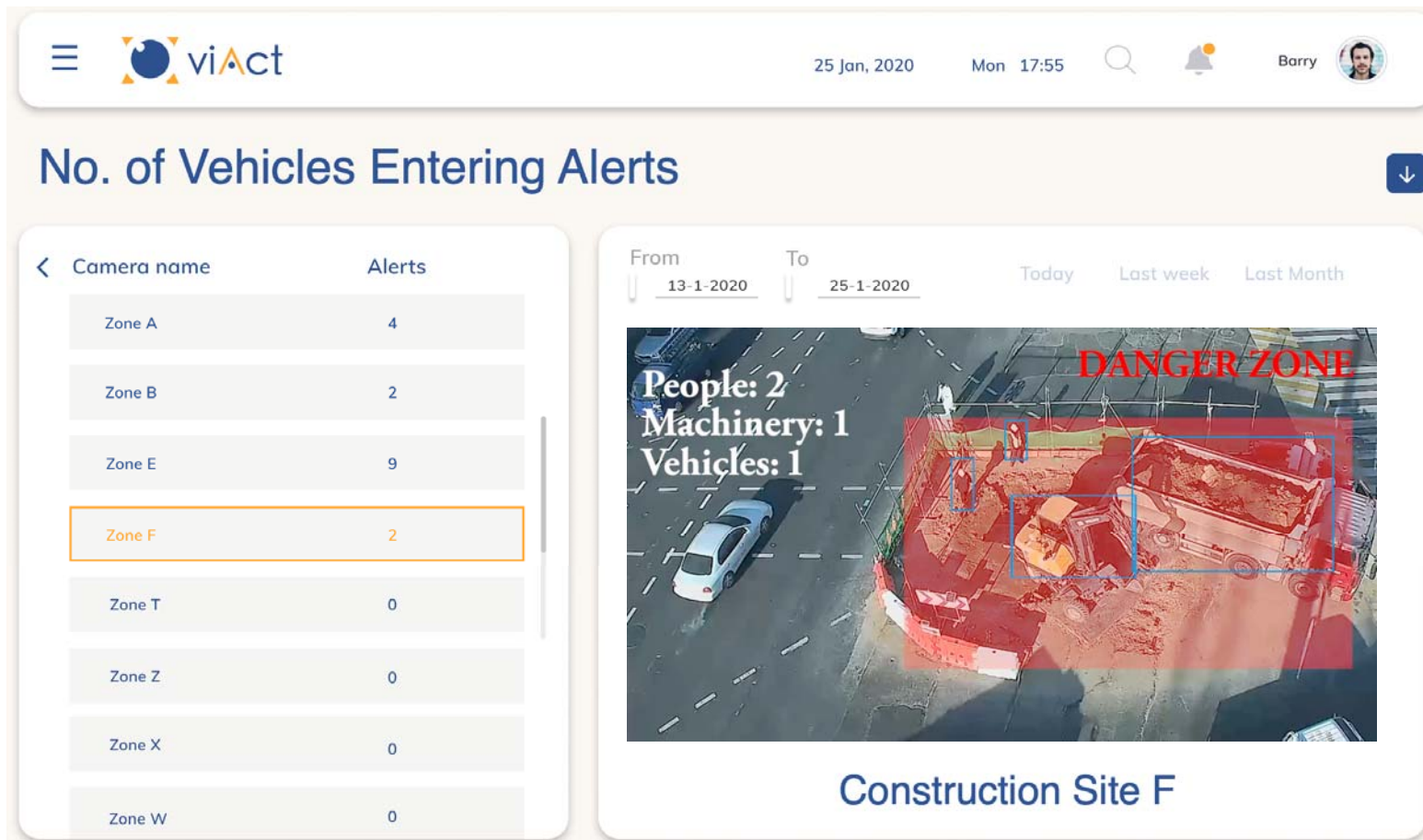
History Stat Result

Helmet Detection

Line

MULTI-OBJECTS COUNTING

Tracking people/material/vehicles in or out specified zones



Data collected :

1. No. of people
2. No. of alerts
3. No. of vehicles
4. Date & Time

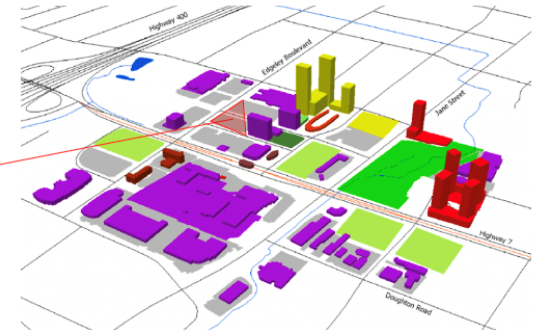
Applications Areas :

- Loading Bay
- Concierge
- Lift Lobby
- Podium
- Warehouse
- Shopping Mall
- Power Plant
- Gas Station
- Subway



AI ROBOTIC SECURITY GUARD

24/7 security check within residential areas





Automate construction efficiency
By computer vision

viAct.ai

Email : hc@viAct.ai
Wechat : argo8778



Official Website

**FOLLOW
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NOW**



WeChat Official Account