

# VIDEO ANALYTICS PLATFORM

One Platform for Multiple Applications



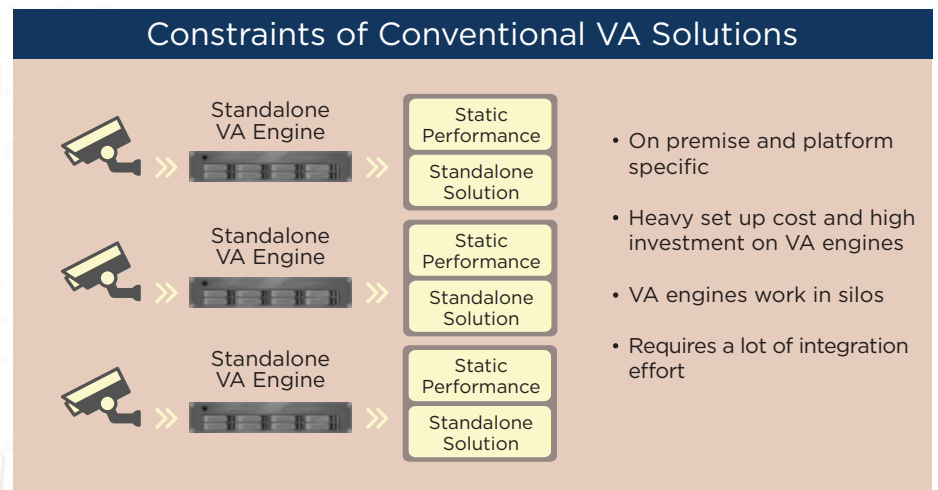
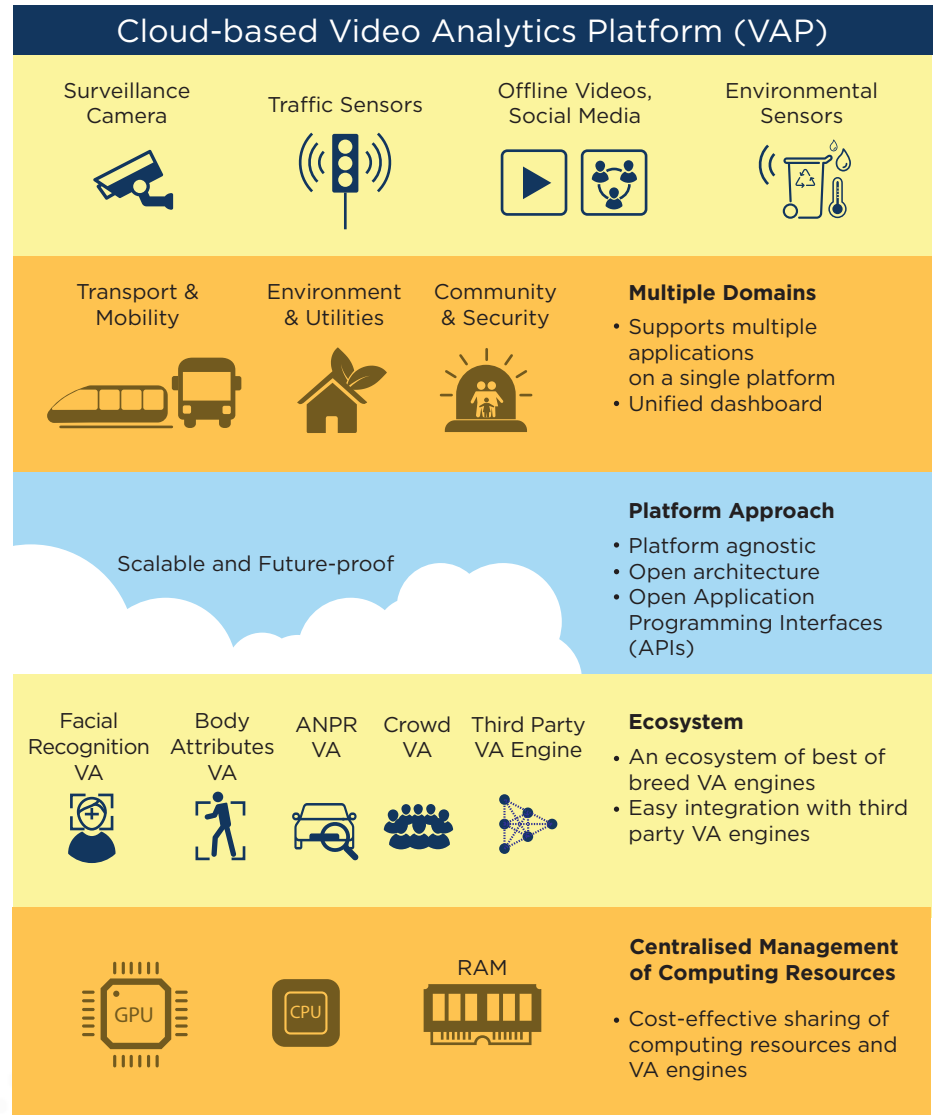
# Video Analytics Platform

Video Analytics (VA) has gained traction in recent years with increasing threats to global security, challenges in security force recruitment, as well as a growing trend in the use of Artificial Intelligence (AI) and deep learning driven by faster computing power.

The use of video analytics reduces the hefty cost and tedious process of deploying human operators to manually view large amount of video data for abnormal incidents and behaviours.

As a result, a plethora of different video analytics systems are developed to enhance video surveillance through the recognition of people, vehicle and other attributes. Although the benefits of deploying such systems are apparent, the set up cost of these systems can be challenging for some organisations.

## Key Differentiation



## One Platform for Different VA Engines

The Video Analytics Platform (VAP) is an open architecture cloud based system which manages different video analytics engines on a single platform. It is a flexible and future-proof system that allows users to scale up or add VA engines to meet changing operational requirements.

Users no longer need to worry about compatibility as the VAP is customisable and agnostic to various VA engines.



## People Recognition



### Facial Recognition

- Face attributes detection and indexing
- Facial search by image
- Black list event handling



### Person-of-Interest (POI)

- Body attributes detection and indexing
- POI search by body attributes
- Recognition, tracking and tracing of POI and event alert
- Map view of the path of POI



### Crowd Behaviour

- People counting
- Human traffic flow
- Crowd dispersion and direction detection
- Queue detection



### Security Intelligence

- Intrusion detection
- Perimeter defence
- Loitering detection

## Key User Benefits

- Low Capital and Operation Expenses
  - Different VA engines are hosted on a single platform
  - Sharing a common pool of computing resources
- Scalable and Future-Proof
  - Open architecture platform
- Higher Quality Insights
  - Enables utilisation of the right VA engines to obtain optimal insights



## Vehicle Recognition



### Vehicle Make and Model Recognition

- Vehicle attributes detection and recognition (colour, make and model)



### Automatic Number Plate Recognition (ANPR)



### Vehicle-of-Interest (VOI)

- VOI search by ANPR and vehicle attributes
- Recognition, tracking and tracing of VOI and event alert
- Map view of the path of VOI



### Traffic Analytics

- Vehicle classification (e.g. car, bus, lorry)
- Vehicle speed and direction of vehicle flow
- Automatic vehicle counting
- Traffic congestion
- Traffic incident detection
- Object-on-the-road detection



### Enforcement

- Speeding
- Illegal parking
- Stationary vehicle
- Driving in the wrong direction

# Customisable Applications



## General Object Detection

- Detects over 20 types of objects such as bags, boxes and luggage



## Drone Detection

- Recognises drones from radio frequency spectrograms



## Barrier Arm Detection

- Detects and monitors the absence of car park barrier arm



# Suitable for

- Public safety and security agencies
- Security companies
- Building owners
- Mall operators
- City planners
- Municipals

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