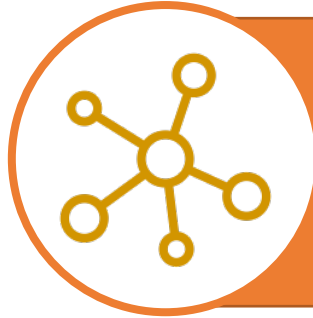# The organizational fitness tracker
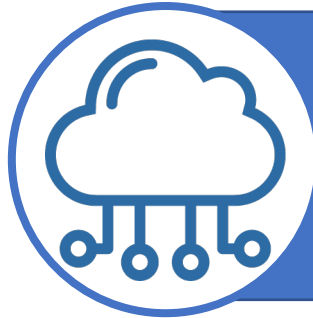
5G-enabled Real-Time Video Analytics on the Move

01 September 2021

ubiZense

Internet of Things Service

Strategically capture mission critical data

Cloud Computing Service

Store and integrate transactional and operational data

Artificial Intelligence Service

Make sense out of plethora of big data

30%
Inaccurate manual data entry

80%
Unstructured data
(Gartner 2018)

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Stationary vs mobile (high bandwidth) IoT sensors
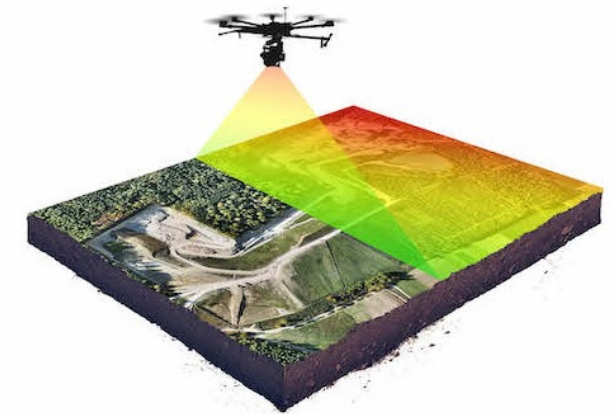
Stationary

- Readily available sensors

- Stable data connection

- Mature AI models

- High set up cost

- IoT sensors mobility

- Rapid deployment

- New use cases

- Data transfer

Mobile

5G

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5G-enabled Real-Time Video Analytics on the Move @HKIA

- Problem
  - Video capturing angle
  - Not all stands have CCTV
  - Stringent safety requirements of installation

- Solution
  - High-bandwidth IoT sensor installed in vehicle
  - Custom "on-the-move" AI on Edge
  - 5G data transmission to cloud
  - Custom full "on-the-move" AI in Cloud
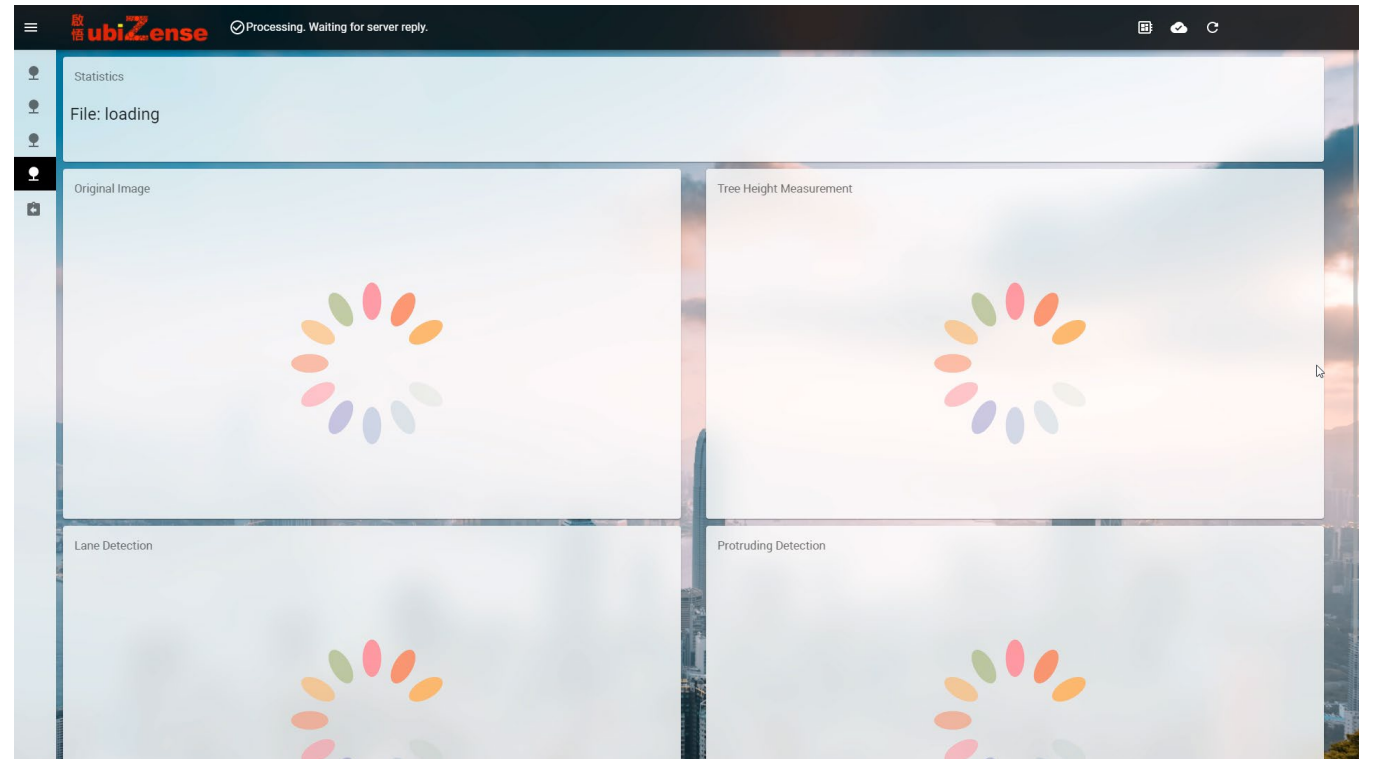 - Automated real-time analytics

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Other Potential Applications – Protruding Trees Detection

Stereo Camera to detect protruding trees

Current lengthy process using expensive LiDAR equipment

Cost efficient, quick detection, and fully automated

Other Potential Applications – Tree Survey

LiDAR for tree analysis

Current manual process to identify and measure trees

Cost efficient, quick detection, and fully automated

5G as an enabling factor for high bandwidth IoT sensors

- 5G enabler for high bandwidth IoT sensors

- New applications by leveraging mobile sensors

- Real-time analysis with full AI models

- Fully automated and cost-efficient solutions

- Only tip of the iceberg

Q&A