Indonesia's Smart City vision: Opportunities for foreign IT solutions providers in the Indonesian market

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Qlue Smart City

Overview

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Founded : Feb 2016

Headquarter : Indonesia

Website : qlue.ai

Vision: Accelerating positive changes worldwide

About Us:

Qlue is a comprehensive smart city ecosystem company which is based on AI (Artificial Intelligence) and IoT (Internet of Things) technology innovations. Various Qlue solutions help decision makers in making more effective and efficient business decision.

🔴 Partners   ⚪ Establishment & Partners

International Recognition

Silver Award on Open and Inclusive City
4th WeGo Award 2020

ASEAN Best IoT Startup
ASEAN Rice Bowl Awards 2020

Best Mobile Government Service
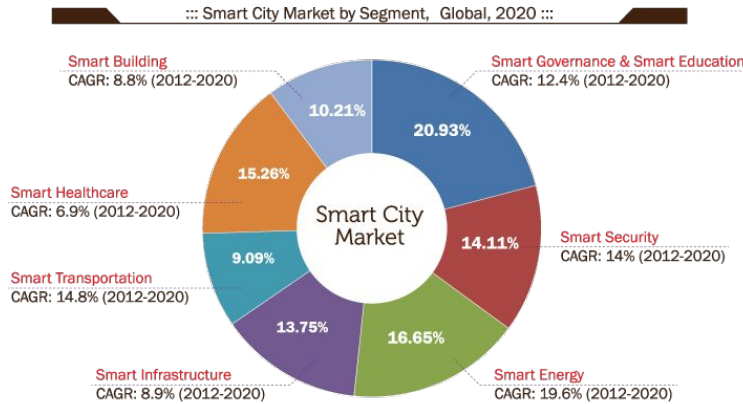World Government Summit 2019, Dubai

Startup of the Year 2019
Jumpstart Magazine (Hongkong)

Top 50 Global Startup 2020
Xtreme Tech Challenge 2020

Smart City Market Potential

There is big market potential in smart city in Indonesia.

::: Smart City Market by Segment, Global, 2020 :::

Smart Building
CAGR: 8.8% (2012-2020)

Smart Governance & Smart Education
CAGR: 12.4% (2012-2020)

Smart Healthcare
CAGR: 6.9% (2012-2020)

Smart Security
CAGR: 14% (2012-2020)

Smart Transportation
CAGR: 14.8% (2012-2020)

Smart Infrastructure
CAGR: 8.9% (2012-2020)

Smart Energy
CAGR: 19.6% (2012-2020)

Smart City Market

10.21% | 20.93% | 14.11% | 16.65% | 13.75% | 9.09% | 15.26%

Note: The graph represent the market share of each segment ih the smart city market.

Indonesia Smart City Market in 2017 (CitiAsia):

83.7 B USD

From the total of 400 Billion USD market potential

In 2019-2024, AI and Big Data will be use by
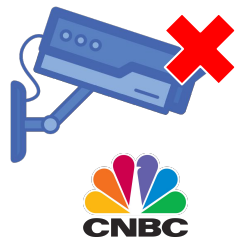
51%

Industries in Indonesia

Startup landscape mapping in Indonesia led by Fintech. But **AI** and **Smart City** innovation have become a trend from **2018-2020.**

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Current Situation & Solutions
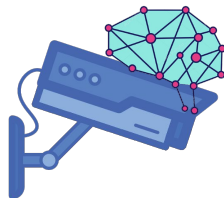
Situation

1 Billion

More than 1 Billion CCTV installed and implemented for surveillance and monitoring around the world in 2021

CNBC

99%

But 99% of these cameras are not within an ecosystem that provides speed and accountability for data

Solutions

Identify the potential security threats and violation

Response
Report
Collaboration

Supervision
Performance Assessment
Strategy

Real Time Data

In
3809

Out
213

Refresh

Detected People from eskalator_fb CCTV

How Qlue Enables An Ecosystem For The Market

Identify

Analysis

Respond

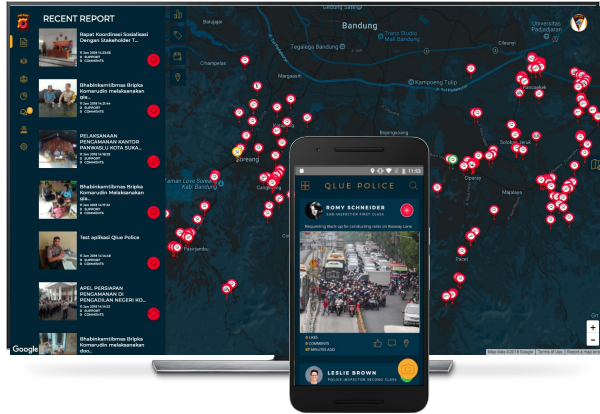| Information Source | | Information Collection | | Data Analysis | | Response Assignment |

Citizen — **Report** → **qlueapp**

City Officer — **Report** → **qluework**

qluevision — **Report** →

CCTV / IoT Sensors — **Detect** → **qluethermal** / **qluesense**

qluedashboard

City Command Center

— **Assignment** → **qluework**

Field Officer
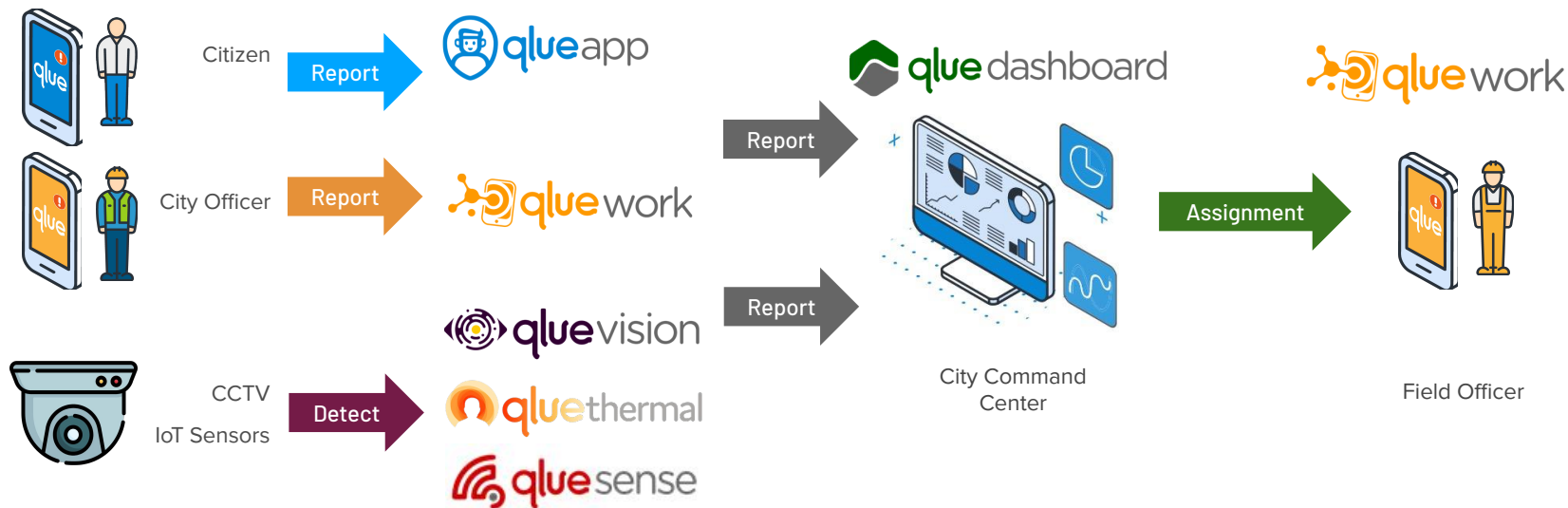
Smart Law Enforcement Collaborators

We empower the Indonesian national police force with a mobile workforce system that allows coordination via app and dashboard seamlessly. Working with multiple stakeholders to strengthen an overall solution for safety and security, Qlue leads the solution in Asian Games 2018 for mobile workforce, dashboard and video analytic using CCTV. The Asian Games 2018 is arguably the biggest event of the year and our participation only proof of our capability to deliver successfully on exceptional events like it. Qlue is now available in 17 Police districts.

Smart City Portfolio

Collaboration for Smart City And Citizen Empowerment
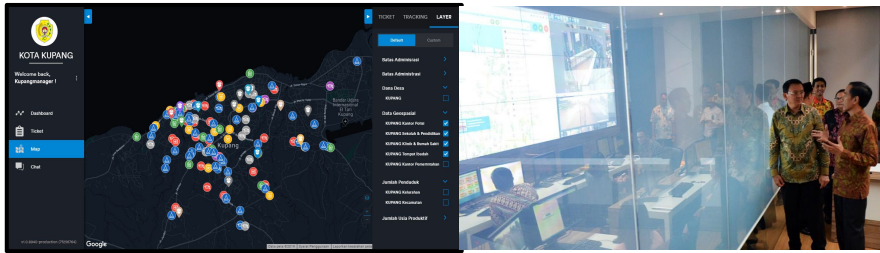
Qlue is a primary partner for Various City Management to monitor problems and dispatch job in order to increase efficiency and effectiveness of problem handling.

Significant improvement to the capital city such as reducing 8000 flood-spots to 450, 72% reduction for extortion, 49% increase of citizen's trust towards government and more.

Qlue is available in over 30 smart cities in Indonesia and worldwide.

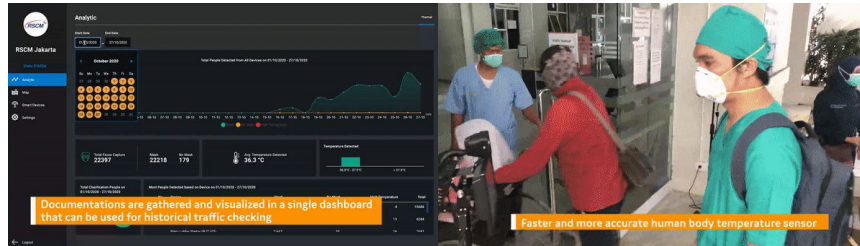## Smart Traffic & Mobility Management in Urban Areas

By using CCTV as a sensor and combined with our computer vision engine. Qlue's Dynamic Traffic Controller (DTC) will be able to **detect and control traffic lights based on the analysis done by our Qlue Vision engine.** The way DTC work is first by **detecting the congestion level** for lanes it monitored. Once it has the insight of the congestion level, it will assign the duration for green light for each lane

By utilizing Qlue AI and IoT Technologies, our clients can decrease traffic congestion rate, illegal parking, while also creating safer neighborhood for the residents.

Smart Building (and Covid-19 Management)

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AI-powered Industrial Area Management to monitor and manage traffic

Qlue is working together with various industries and building manager in ensuring the health level of each visitor entering the premise by:

- Identifying temperature of the visitor is under the threshold
- Ensuring the mask usage of the visitor
- Gather real-time information from the visitor

Use in

AI-powered data analysis to measure factory staff average working hours

Qlue is working together with shopping malls in Jakarta as the AI-based shopping mall in Jakarta by:

- Identifying the numbers of people entering and exiting the mall area,
- Analyzing the heatmap of the floor to help them defining the tenant rental fee for specific areas

To be used in these cases:

- To justify rental fee based on traffic congestion
- To measure marketing effectiveness of an event based on traffic congestion.

Portfolio

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