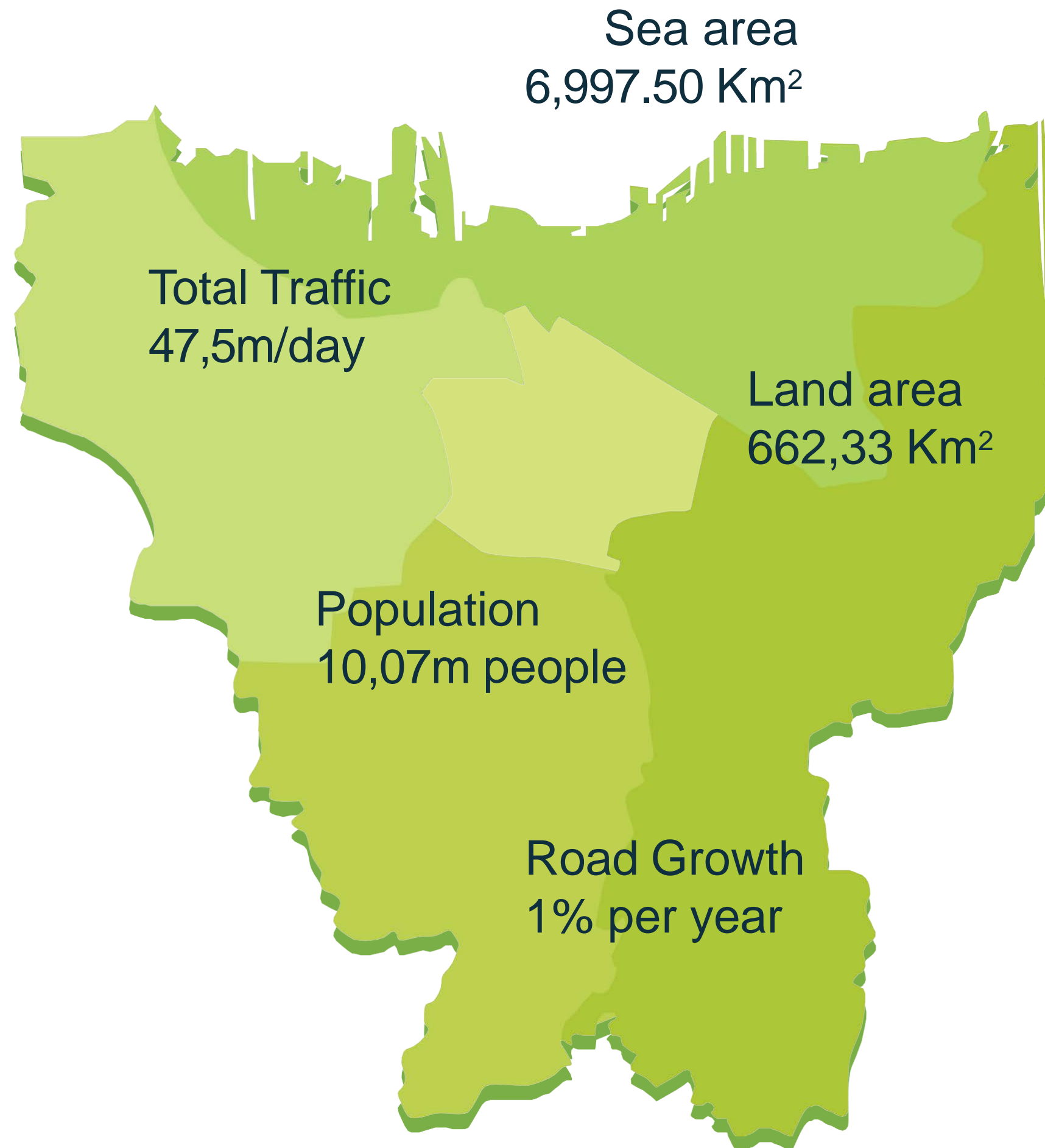




# SMART CITY DEVELOPMENT IN THE CAPITAL OF INDONESIA

SETIAJI  
Head of Jakarta Smart City

Jakarta, 28 November 2018



# JAKARTA

## Capital City of Indonesia

The Most Densely Populated  
Province in Indonesia  
15,68 thousand inhabitants/km<sup>2</sup>

Waste Production  
7.8 thousand tons per day

# 4 LEVELS OF CITY EVOLUTION

CITY  
4.0

The city government as a collaborator.  
Citizens as co-creators.

CITY  
3.0

The city government as a facilitator. Citizens  
as participants.

CITY  
2.0

The city government as a service  
provider. Citizens as consumers.

CITY  
1.0

The city government as an administrator. Citizens  
as residents.





## ABOUT JAKARTA SMART CITY

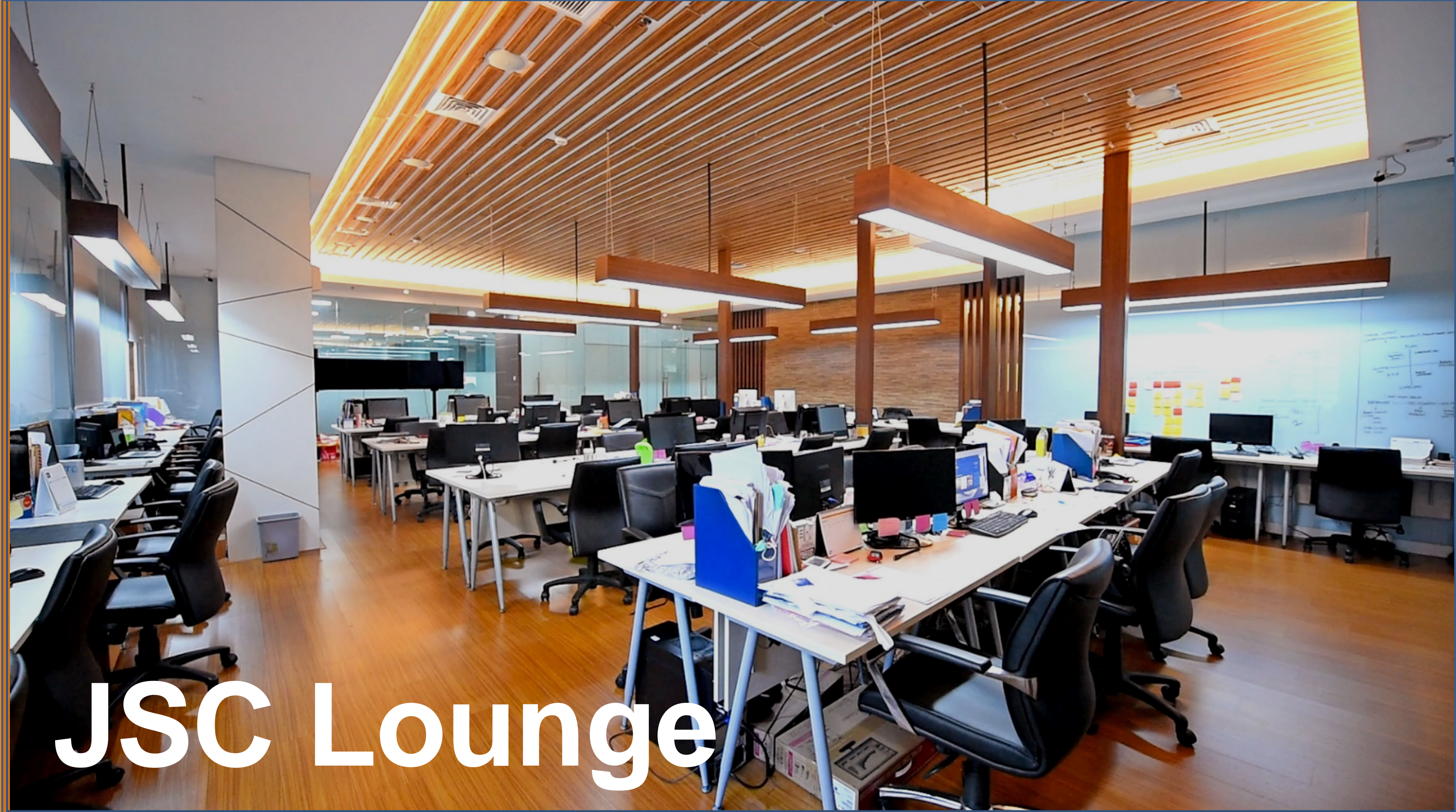
- Established in 2015
- A management unit under Communications, Informatics and Statistics Agency of Jakarta Provincial Government
- Runs with a system of work that combines the culture of government bureaucracy and startup in the field of IT
- When it comes to decision making process, we departed from the data taken from the big data and then analyzed by experts who then concluded the results in conclusion



# Monitoring Room







# JSC Lounge





## VISION

Jakarta as the capital of Indonesia is safe, comfortable, prosperous, productive, sustainable and globally competitive;

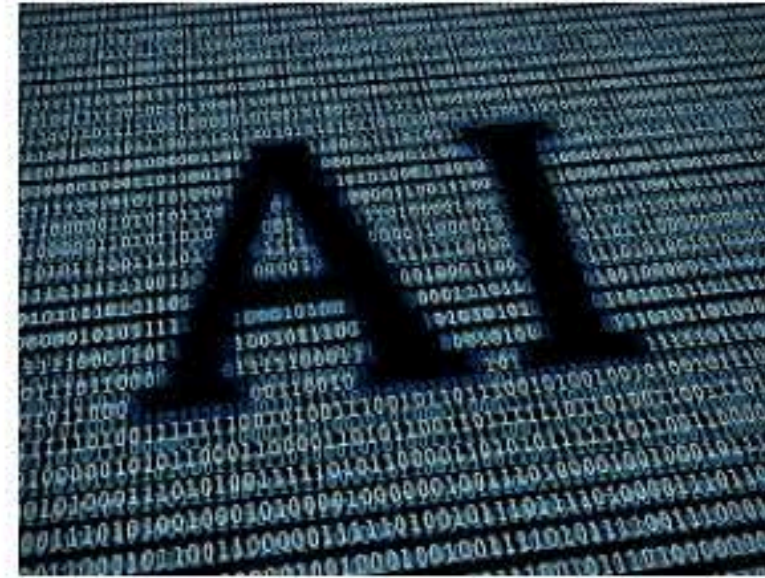
## MISSION

Improving the quality of infrastructure, strengthen the economy, social and cultural cohesion, improving the environmental conditions and the efficient use of natural resources, improving government performance, strengthen innovation and creativity;

## GOALS

Improve competitiveness and develop public services to support public welfare.

# TECH CITY



**INNOVATION  
COLLABORATION**

**DATA DRIVEN  
CITY DASHBOARD**

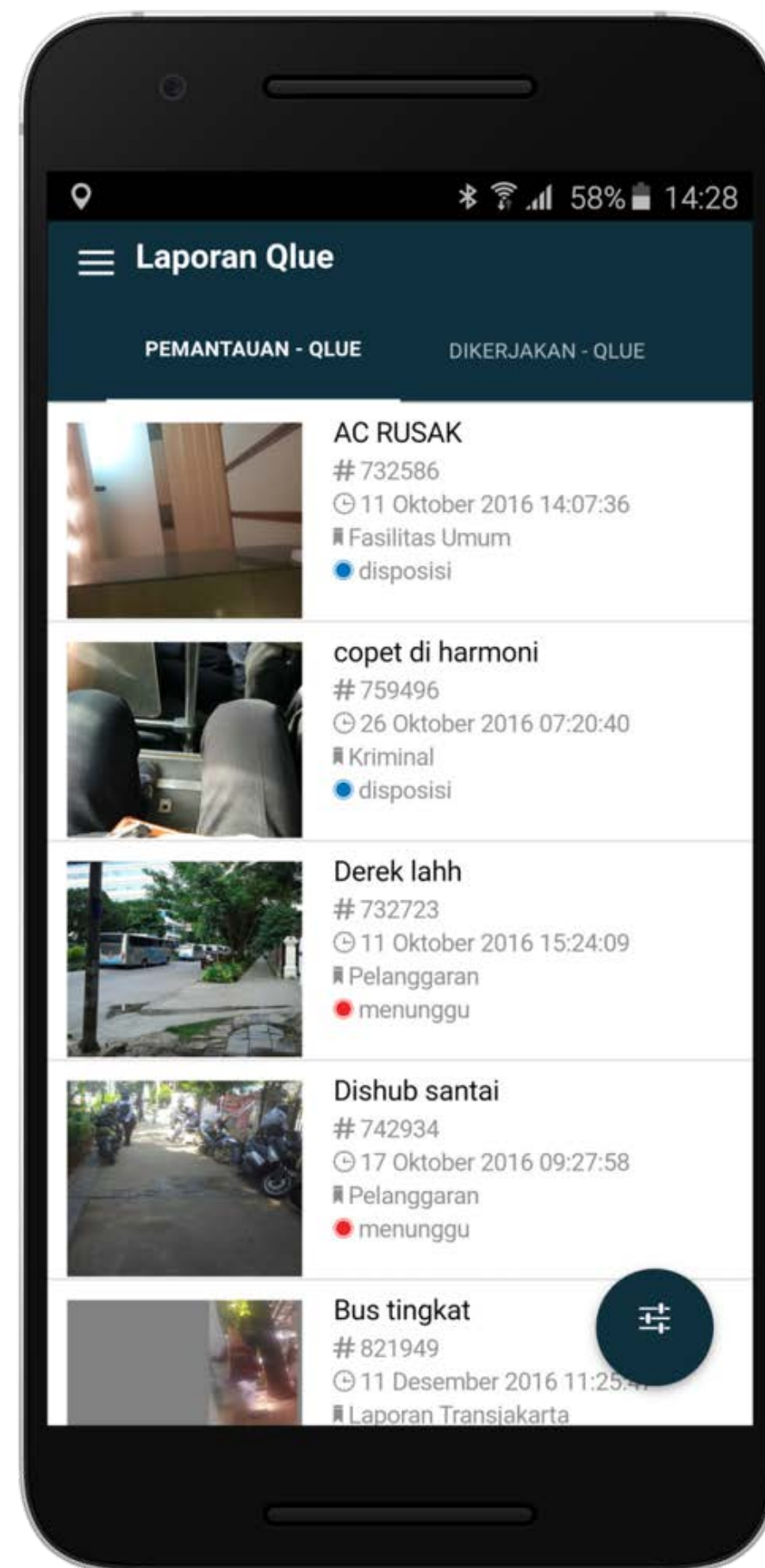


# 6 SMART CITY INDICATORS



# PAST AND CURRENT PROJECTS





## Jakarta Provincial Government Official Aspiration Platforms



@DKIJakarta



Pemprov DKI Jakarta



08111272206



Balai Warga jakarta.go.id



LAPOR 1708



dki@jakarta.go.id



QLUE



Sub-District Offices



**ASPIRATIONS AND REPORTS WILL BE FOLLOWED UP  
BY RELEVANT AGENCY OR DEPARTMENT**

## Citizen Relation Management

- A mobile and web application for the Province Level (Agency, Department, and Bureau) and City Administrative Level (District, City, and Sub-Agency) to coordinate and handle the citizen report easily and efficiently.
- Jakarta Provincial Government Official Aspiration Platforms



## Jakarta Smart City Maps

To implement Open Government, Jakarta Smart City integrates various data from various agencies and SKPD in Jakarta Provincial Government based on maps

You can find out information:

- Real-time impressions of 7,000 CCTVs throughout Jakarta
- Information on land prices
- Information on availability of Hospital Rooms
- Information on food prices
- Information on SMEs assisted by Jakarta Provincial Government
- etc.

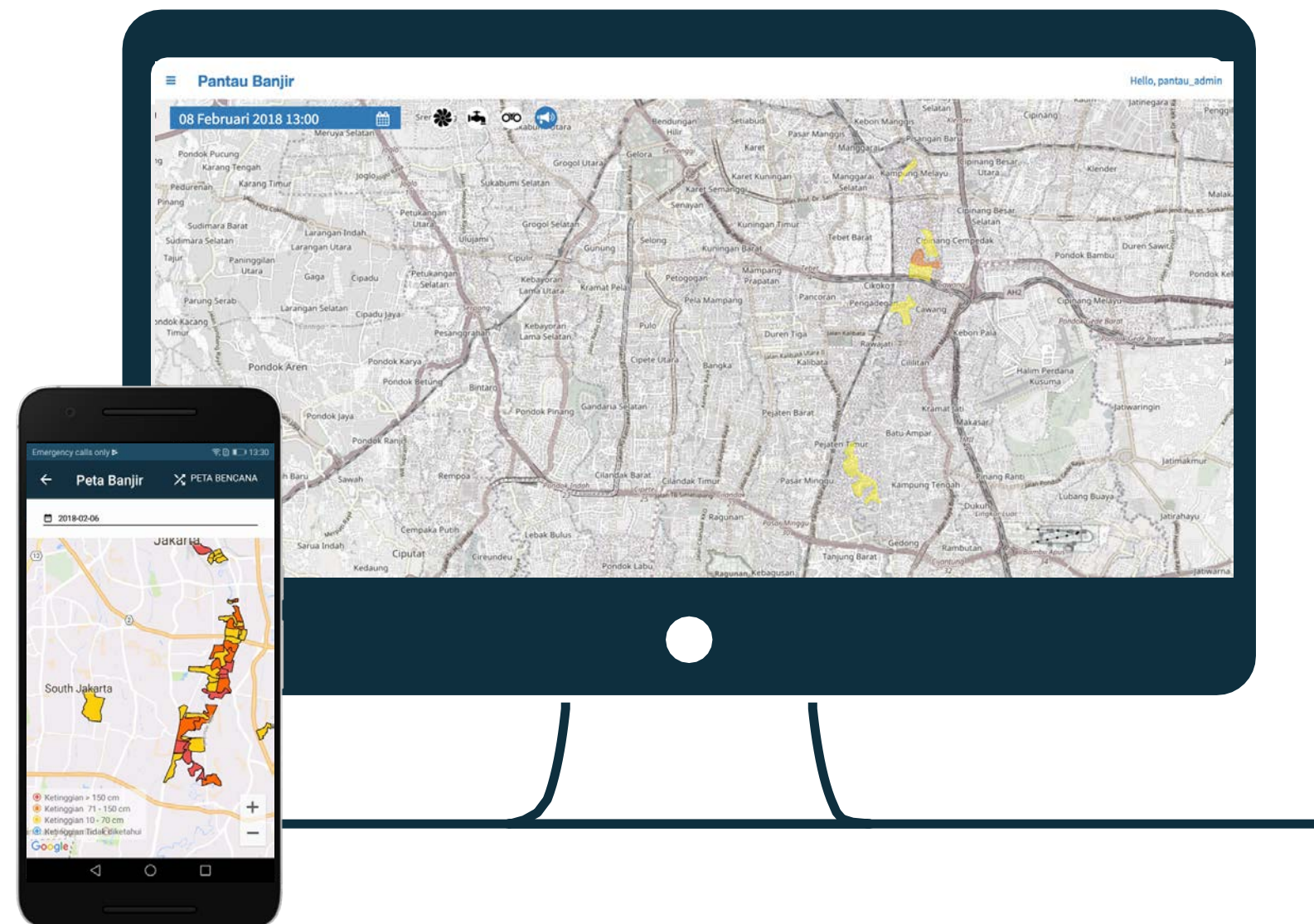


# Application Pantau Banjir

Application to Monitor Floods Jakarta Smart City's mobile application for displaying information related to flood prevention in Jakarta. All data in this application are the result of collaboration with various agencies such as BPBD, Water Resources Service and Social Service of DKI Jakarta Province.

Information about :

- Information on Flood Maps in Jakarta
- Flood Report from Residents Follow-up
- Condition of the Water Pump
- Observation Post Conditions
- Information Location of Refugees and Amount of Assistance



## Utilizing IoT in Jakarta

IoT uses internet connection to connect devices in order to monitor and control.

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## The Application of IoT by Jakarta Provincial Government:



Monitors TransJakarta buses



Monitors garbage truck and heavy duty vehicles



Monitors ambulance



Monitors water level



Monitors air quality



Controls public street lights



# Bike Share





## CCTV Integration

Currently there are  
**7.362 CCTVs**  
have been integrated in  
**Jakarta Smart City Portal**

\*data on Oktober 2018



# API Jakarta

A service that provides data information available in the DKI Jakarta Provincial Government through the Application Programming Interface

Startup can use Jakarta API to create applications that are useful for DKI Jakarta residents

[api.Jakarta.go.id/](https://api.Jakarta.go.id/)



Fire Station Data



Hospital Data



Ambulance Data



Waste Disposal Data

# COLLABORATIONS



# Place Making



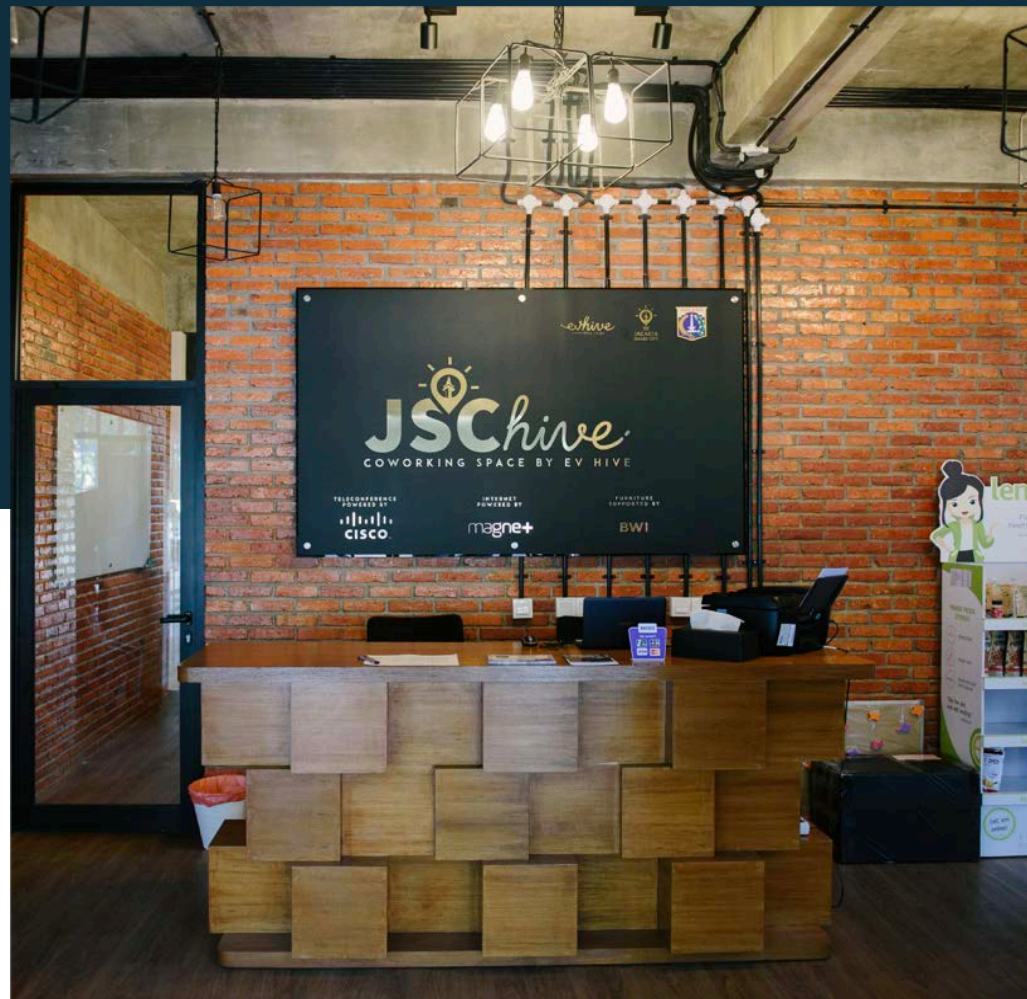
Involve the community in structuring and improving public space so that the community feels more facilitated and participates in the development process

# Collaboration Partner





# JSCHive Coworking Space



A partnership between Jakarta Provincial Government and Cocowork, aiming to provide space where collaboration between the government and digital-oriented startup activists can be done to jointly solve problems in Jakarta.

# **BENEFIT OF** **SMART CITY IMPLEMENTATION**





# TRANSPARENT

# TRANSPARENT

A transparent (open) government can increase public trust in government performance. It is transparent if the administration is easily accessible or known by the community so that the community can monitor and evaluate the performance of the government.



## Open Data dan Portal Jakarta Smart City

Presenting data and information from all Agency in DKI Jakarta Provincial Government needed by the community and fulfilling public rights as a form of e-government implementation in realizing transparent and accountable governance.

***[data.jakarta.go.id](http://data.jakarta.go.id) & [smartcity.jakarta.go.id](http://smartcity.jakarta.go.id)***



## API Jakarta

API Jakarta is a service that provides data information that is within the scope of DKI Jakarta Provincial Government. With the Jakarta API, developers can develop mobile applications or websites using the available API.

***[api.jakarta.go.id](http://api.jakarta.go.id)***



## KPI Jakarta

Contains information about performance indicators from agency to village level in DKI Jakarta in the form of a percentage of the target set. The aim is to improve the quality of work and determine more tangible targets in the development of the Capital City of DKI Jakarta in the future.

***[kinerja.jakarta.go.id](http://kinerja.jakarta.go.id)***



## Pelayanan Jakarta

The Jakarta Service Portal contains information about the one-door service managed by DKI Jakarta's Capital Investment and One-Stop Service (DPMPTSP). This portal is to make it easier for the public to manage permits and non-permits such as obtaining SIUP, IPTB, and others.

***[pelayanan.jakarta.go.id](http://pelayanan.jakarta.go.id)***

***DKI Jakarta Provincial Government has been included  
in the example of "Indonesian Open Government best practice."***

***<http://opengovindonesia.org/front/bestpractice>***

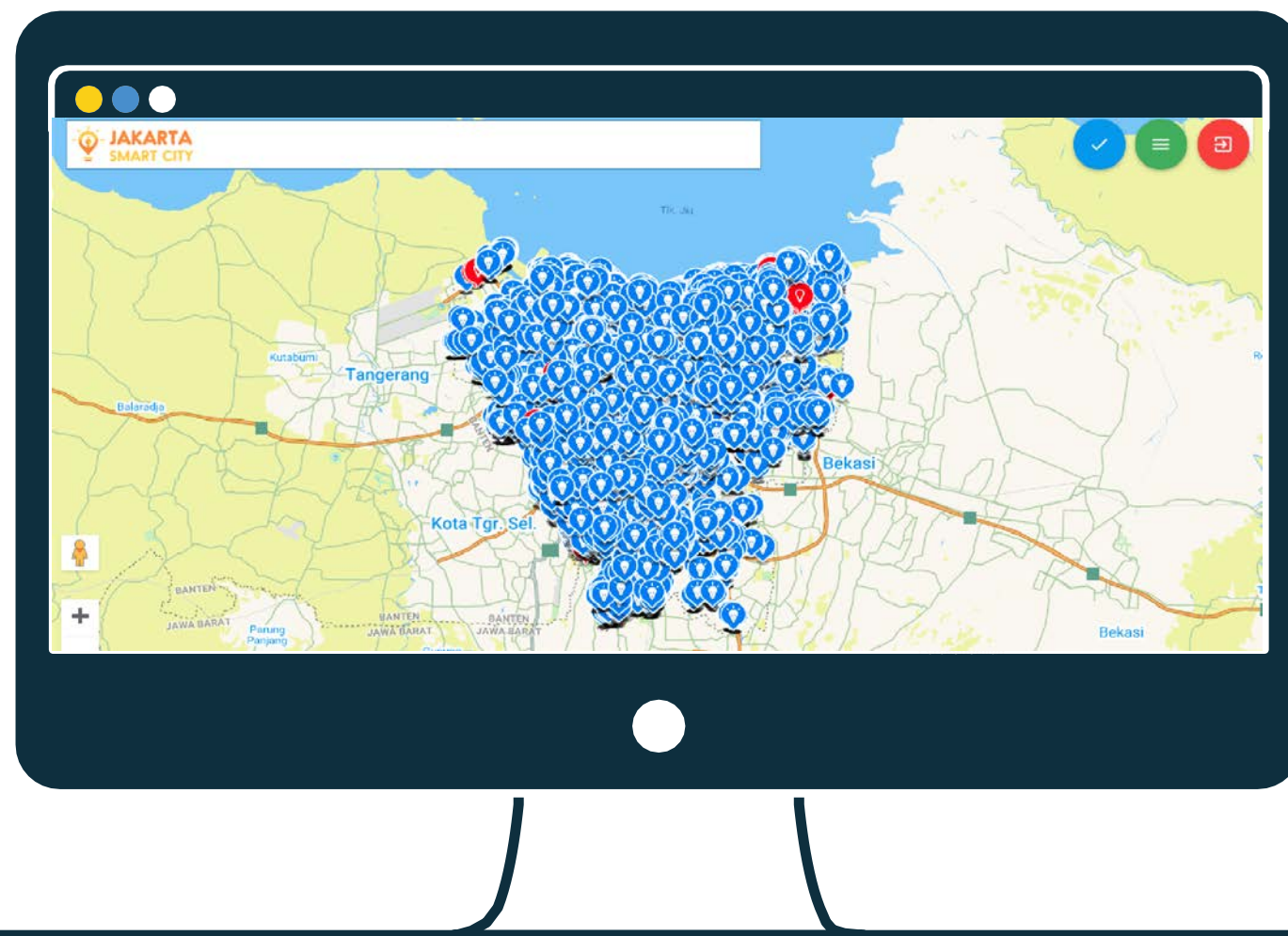
**Jakarta Smart  
City**



A nighttime photograph of a multi-lane road in Jakarta, Indonesia. The road is illuminated by streetlights, and a few vehicles are visible in the distance. On the left side of the road, there is a building with a sign that reads 'ITC ROXY MAS'. Further down the road, a sign for 'HARI HARI' is visible. On the right side, there are some buildings and a sign for 'Indomaret'. The word 'EFFICIENT' is overlaid in large, white, bold letters on the left side of the image.

# EFFICIENT

# Efficient Smart Street Light



- Place sensors & replace 240.886 **street lights** into LEDs
- **40-50% energy** use efficiency & **37%** budget efficiency
- Centralized monitoring system, more efficiency in monitoring and maintaining street lights
- Light intensity varies to get more efficiency



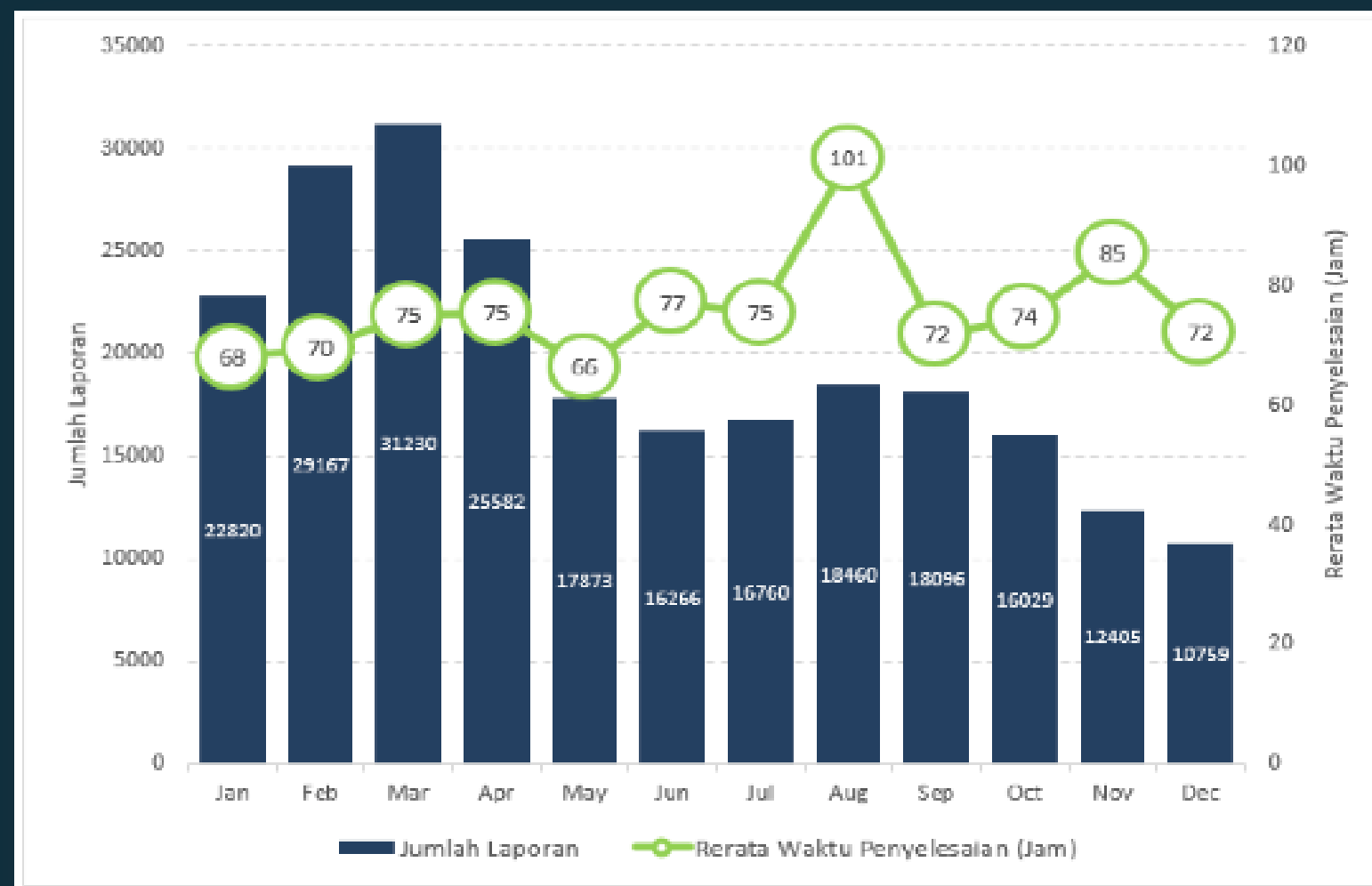


EFFECTIVE



# Effective

## Time Trend for Completion of Citizen Reports



## BEFORE

IN 2015: Of the **14,852** reports included in the Jan-Dec period, the average completion time for the Jan-Dec period was **300 hours**

## AFTER

IN 2017: Of the **235,447** reports included in the Jan-Dec period (average per month 19.620 reports), the average completion time for the Jan-Dec period was **76 hours**

Terima Kasih

