

Building Smart City 4.0 Ecosystem Platform

Yudhistira Nugraha, D.Phil – Director at Jakarta Smart City



Sea Area: 6.997,50 KM²



JAKARTA

as the Capital City of the Republic Indonesia

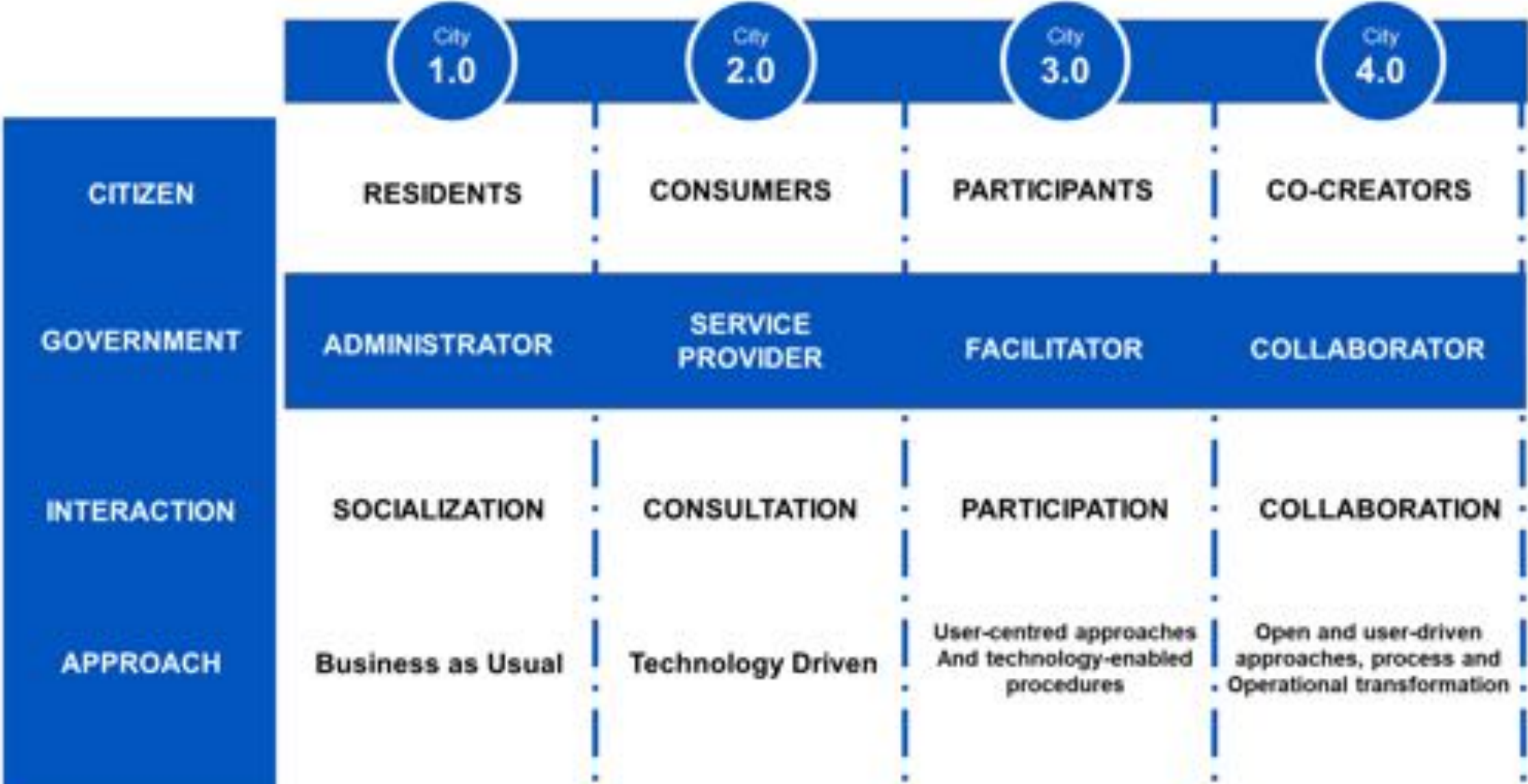
Population: ± 10.3 Million people

Highest Density in Indonesia:
 ± 15.633 people each km²

Waste production:
 ± 7.100 tons per day

Number of vehicles:
 ± 13.3 Million Motorcycles and ± 3.5 Million Cars

City Evolution



What is smart city?

Innovative City and Happiness

Governor's Vision and Mission

Maju Kotanya, Bahagia Warganya

Smart City 4.0 Ecosystem Platform

Collaborator

Government

Co-Creators

Citizen

Academia

Media

Industry/Business/Investor

Other Governments

Vision and Mission
JAKARTA CITY 4.0

Technologies, Innovations and
Collaborations

Cloud

Big Data

AI

IoT

Blockchain



Road Congestion



Medical Services



Parking space



Flooding



Waste Management and Recycling



Air Pollution



School education



Local government services



Public Transport



Drink Water



Unemployment



Green spaces

City's Problems

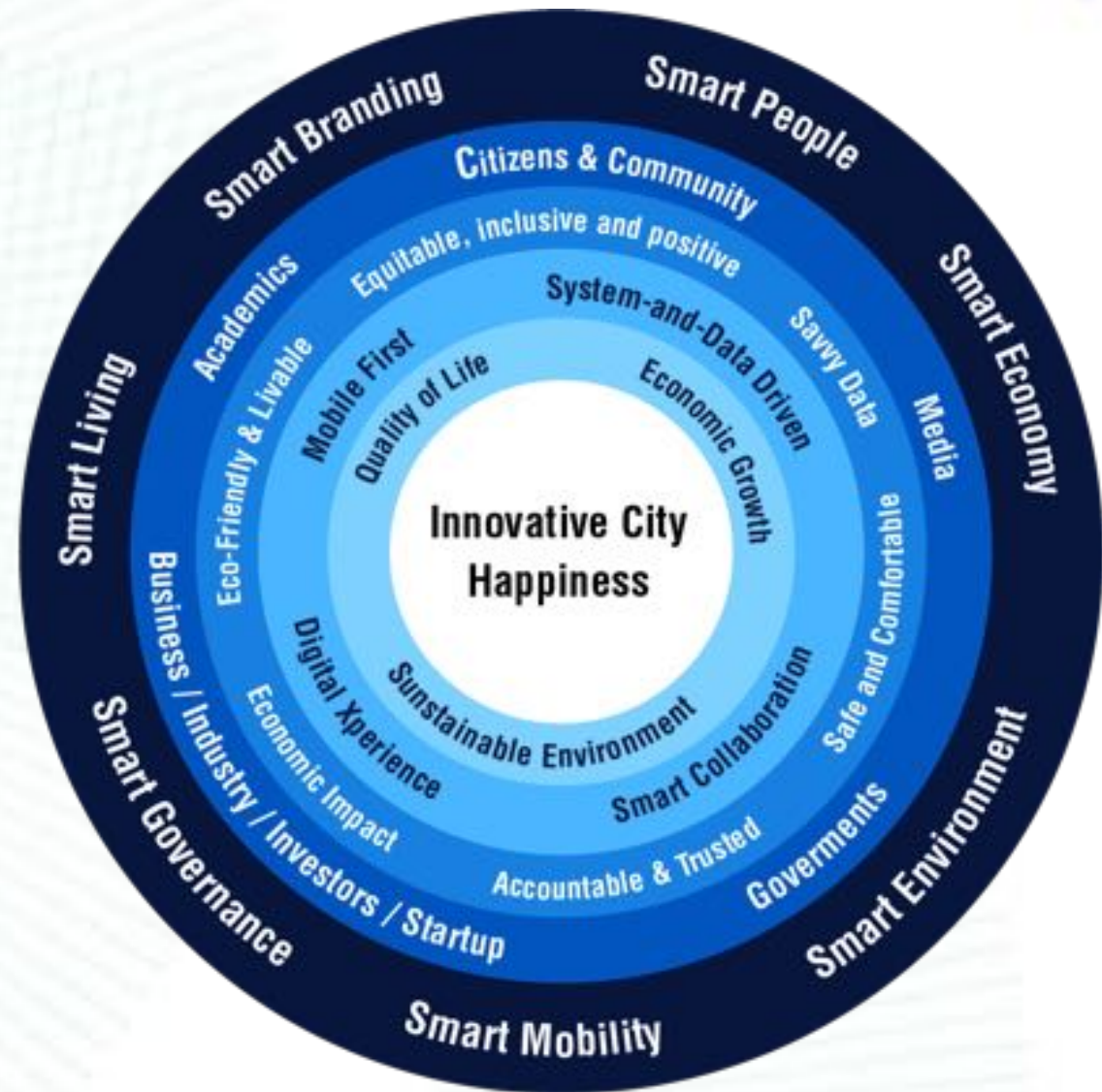
Citizen's Needs

Innovative City

Happy Citizens

Smart City 4.0 Framework

2 Aims	3 Value Objectives
4 Principles	5 Co-creators
6 Outcomes	7 Indicators



Work Plan 2020 - 2022



1. Mobile First

Government-created Services

Single-Signed On

Citizen Account

Mobile Payment

Co-creator-created services

UI/UX Design

Seamless Mobile Experience

Digital Identity

2. System and Data Driven

Live Dashboard and Polling

Subsidy Scoring Analytics

City-Brain

Master Data Management

Personalized Services

Mobile Behavior Analytics

Data Hub

Omnichannel Experience

3. Digital Xperience

Digitalization for Public Services

Chatbot for call centres

Citizen digital experience

JSC Deep Dive

Citizen Xperience Orchestration

Digital Talent

Product Trainer

JAKI for Disability People

4. Smart Collaboration

Living Lab

Start-up Ecosystem

Future Cities Hackathon

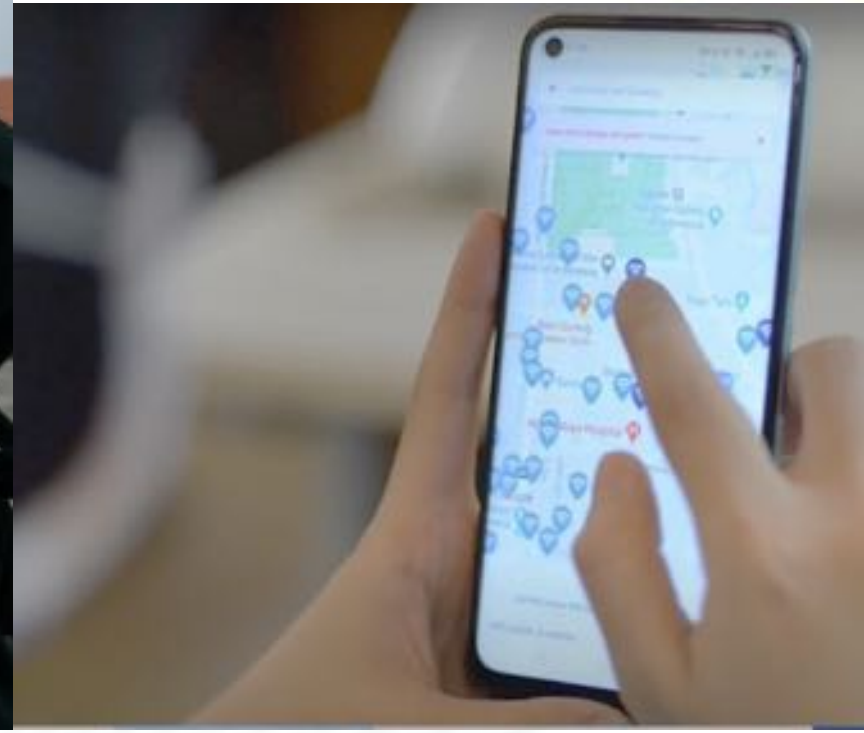
Collaborative Ecosystem

Business Model for Smart City

Open Ideation

Sandbox Ecosystem

Open Innovation Hub



Mobile First

- Jakarta Smart City has a principle to provide a variety of services that are easily accessible through an integrated mobile device
- JAKI as the Jakarta Super-App platform has integrated more than 15 features and 28 applications developed by agencies and the public
- We will develop JAKI by presenting a Digital ID for Jakarta residents, so that various services and data for Jakarta residents can be integrated



System and Data Driven

- Jakarta Smart City supports the DKI Jakarta Provincial Government's policy to be based on data by analyzing various data in Jakarta
- To support data-based policies, we have used various types of sensors to collect various data in real time (Ex: Bus movement sensor, air quality, water level, ambulance tracking, garbage truck tracking)
- Supporting various pandemic management programs by utilizing data, such as analyzing Covid-19 data in Jakarta, social assistance data, to building CLM as a machine learning-based Covid-19 risk test.



JSC Talks
vol. 12

Pembicara: ●○○○
Fauzan Zam'an
Sales and Marketing Manager Molecool

Moderator:
Miko
System Analyst Jakarta Smart City

Jumat, 13 November 2020
Pukul 15.30 - 16.30 WIB
via Zoom
terbatas untuk 100 orang pertama.

Registrasi melalui:
bit.ly/jsc-talksvol12
Live streaming YouTube
Jakarta Smart City

Topik pertemuan:
Pantau Live Traffic Jakarta melalui CCTV Molecool di Aplikasi JAKI

Smart Change Online Conference 2020 - Urban Data

Smart Change Conference 2020 - Urban Data
PART I - Jakarta Smart City Strategy - Achievements and Work Plan

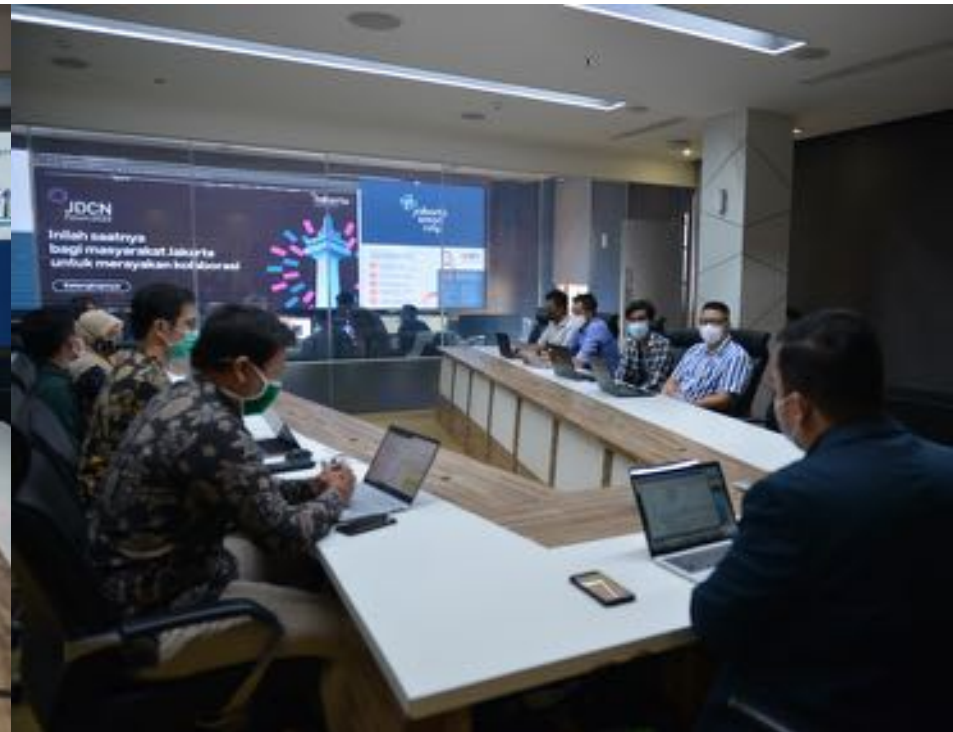
HOBI

Mira Zakaria
Host, Smart Change Jakarta
Jakarta, Indonesia

LIVE 01:10 65

Digital Xperience

- Various events that we present to improve soft skills or digital literacy in Jakarta through the principles of Digital Xperience
- By 2020, we have hosted more than 20 online webinars and 16 offline events.
- We also provide digital literacy training for both the public and agencies in the DKI Jakarta Provincial Government



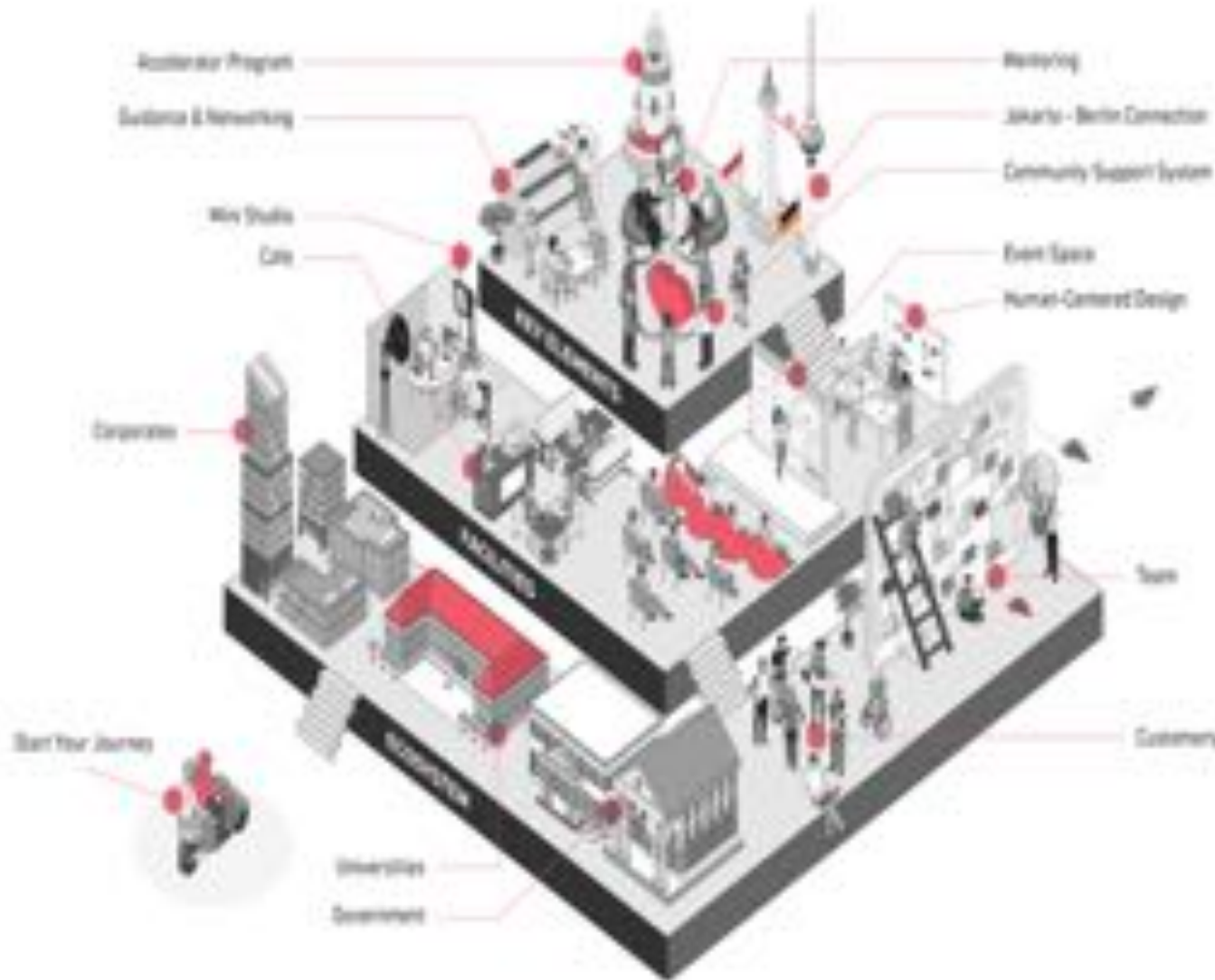
Smart Collaboration

- To implement City 4.0, Jakarta Smart City is collaborating with Co-Creators to present various solutions from the community, especially startups
- We present a Collaborative Sandbox scheme, which is a space for discussion between the government and technology companies to provide innovation to solve various city problems.
- Until January 2021, we have collaborated with more than 20 startups to provide public services in Jakarta

Open Innovation – Living Lab

Business Model

jaki



Smart City as a Data

City data is recognized as a significant asset for the deployment of SC where SC data impact multiple services in various inter-disciplinary domains

Smart City as a Service

Providing secure, reliable, and fast integration based on API (Application Program Interface) public services to citizens

Smart City as a Platform

Jakarta has created digital platform that are ready to be used for city Co-creators (e.g. communities, industries and start-ups)

Smart City as a Hub

Integration of various data platforms from different services

Smart City as an Ecosystem

Building new business models for SC ecosystems instead of depending on financial restrictions (e.g. APBN/APBD)

Creators of the platform's offerings
(Internal Gov agencies and co-creators)

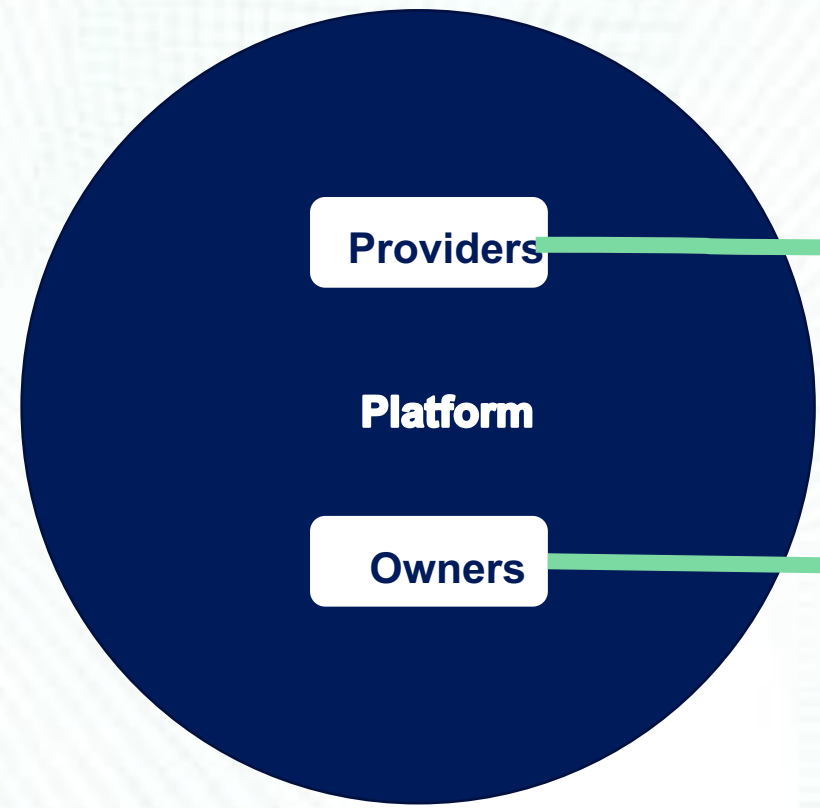
Citizens
(Buyers or users of
the offerings)

Producers

Consumers

Value and data
Exchange and feedback

The Players in a platform ecosystem



Interfaces for the platform
(Jakarta Smart City provides JAKI)

Controller of platform IP and arbiter of
who may participate and in what ways
(Pemprov DKI Jakarta owns JAKI)

JAKI as a Collaborative Ecosystem Platform with Citizen-designed Service

jaki



Mobile First

Various services for your daily needs at the palm of your hand

JAKI has integrated various digital services and official information from the Jakarta Provincial Government, so that citizens would only need to install one app.

JakLapor

The Provincial Government's official geotagging-based citizens report canal

JakWarta

The latest official news and information from the Provincial Government

JakPangan

Daily food prices in all Pasar Jaya markets across Jakarta

JakSurvei

Surveys to assess the performance and services provided by the Jakarta Provincial Government

JakISPU

View the Air Pollution Standard Index (ISPU) in Jakarta

JakCo

Shortcuts to startups that have collaborated with Jakarta

Tanggap Covid-19

Data and information center and various Covid-19 control features

JakWIFI

Find free WIFI access points

JakRespons

List of citizen reports being handled by officers of the Provincial Government

JakPantau

Monitor locations of flood points and water levels in various river flows

JakSiaga

Access to various important and emergency numbers

JakApps

Find other digital public services of the Jakarta Provincial Government



Accelerating Digitalization

- A. Enhancing digital government services:** One Stop App Service : JAKI (“Jakarta Kini”) apps, providing various government services and COVID-19 data, information, and features; Citizen Relation Management, Active participation to report violations and complaints for the better Jakarta
- B. Changing the way governments works:** e-government, digital based business process, enterprises resource planning
- C. Exploring digital based new revenue stream:** Data and digital transaction, digital infrastructure to intensifying and potential revenue objects

JAKI JUARA

jaki

KOMINFO

Karya Terpilih
idenTIK
Indonesia Entrepreneur TIK
Compete and Grow 2020

@komkominfo @kemenkominfo Komkominfo TV

Karya Terpilih
idenTIK
Indonesia Entrepreneur TIK
"Compete and Grow" 2020
KATEGORI
PUBLIC SECTOR

1. JAKI (JAKARTA KINI)
2. PIKOBAR
3. SMART TERMINAL
4. SAPAWARGA
5. RSM MOBILE

in Conjunction with:

inixindo .id Expressing Your Freedom ASPELURI @ditjenaptika @EMBERDAYAAN.KAPASITAS WWW.IDENTIK.ID



Thank You

yudhistira.nugraha@jakarta.go.id