Digital Transformation on Urban Planning, Policy, and Development in West Java

Submitted by: Indonesia

**Conference on Promoting Smart Cities
Through Quality Infrastructure Investment
in Rapidly Urbanizing APEC Region
15 September 2021**

Provincial Government of West Java

DIGITAL TRANSFORMATION ON URBAN PLANNING, POLICY, AND DEVELOPMENT IN WEST JAVA

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through Quality Infrastructure Investment
in Rapidly Urbanizing APEC Region

ABOUT WEST JAVA

3.7m Ha
One of the biggest provinces in Indonesia

49+ Mil
20% of the entire Indonesian population

18 Regencies

9 Cities

627 districts

5,312 villages

645 sub-districts

GOVERNMENT DIGITAL TRANSFORMATION
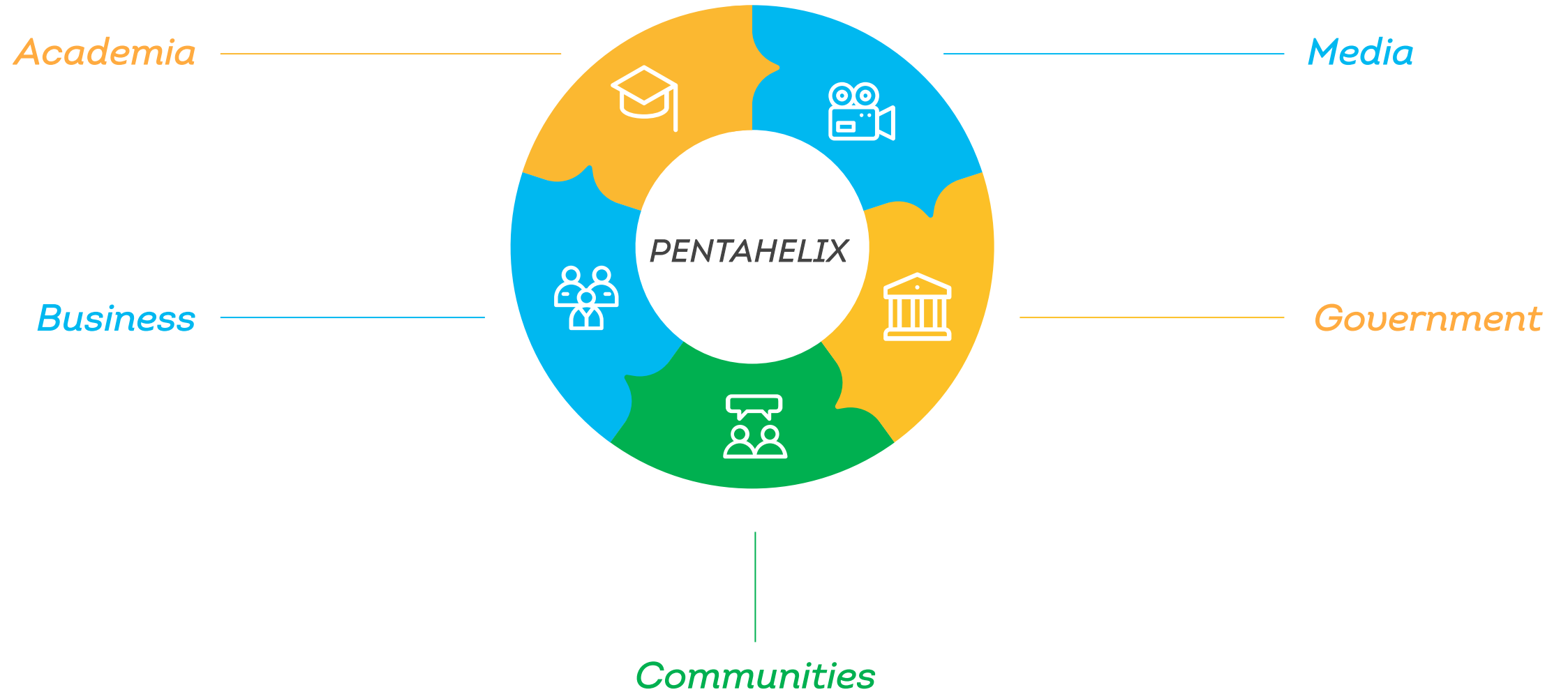
We envision West Java to become a data and tech-driven Digital Province. We pursue a more responsive, adaptive, and innovative public services and decision making processes.

|		
Data for a more informed policy making.	*Digital transformation for better public services*	*Digital technology to accelerate innovative mindset to support social welfare*

JABAR COMMAND CENTER

Data Visualization and Integration Center used to provide centralized command for monitoring, coordination, and decision support system.

2020 developments

Indramayu

Cirebon

Pangandaran

Garut

West Java Province
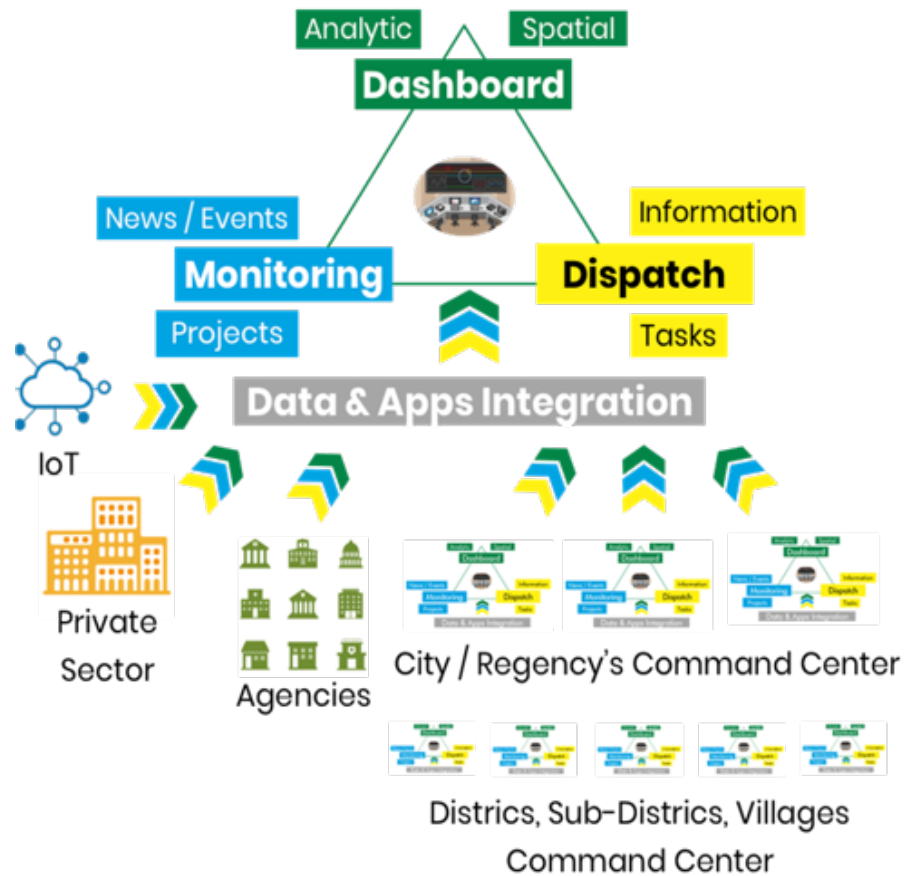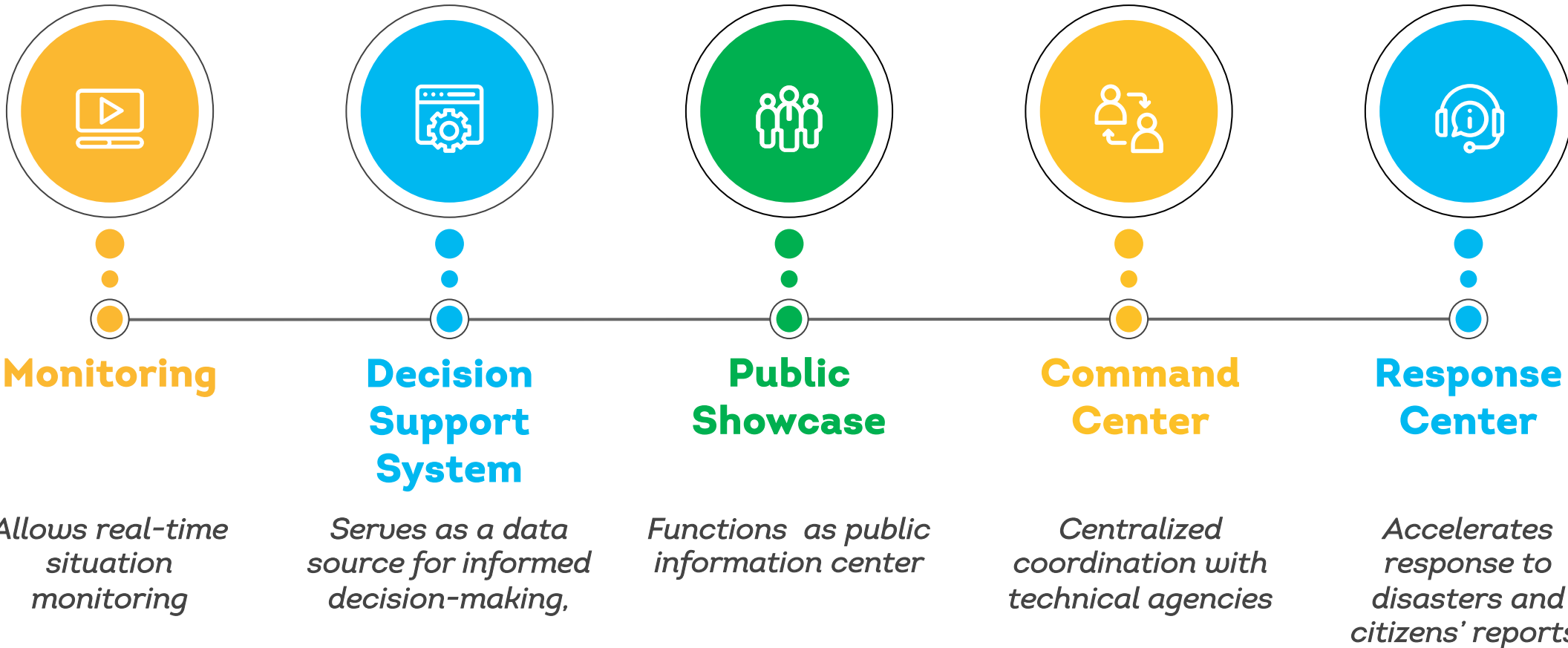
JABAR COMMAND CENTER SUPPORTING APPS

1. Report Aggregator

2. Dispatching System

3. Executive Dashboard

4. Territorial Information Provider System

5. Disaster Management System

6. GIS Asset Application

7. Video Analytics

8. Media Analytics

9. Interactive System Control

10. Multimedia Management System

11. Operational Management Application

13. Infrastructure Projects Monitoring Dashboard

12. Information System Distribution

14. Public Attraction System

Immediately after West Java declared a COVID-19 emergency status, *Governor Ridwan Kamil dedicated Jabar Command Center as the West Java Information and Coordination Center (Pikobar)*

Jabar Command Center has become a real-time data center and media analytics – continuously monitored for 24 hours supported by applications and digital tools developed by Jabar Digital Service.

TECHNOLOGY DURING PANDEMIC: PIKOBAR

One day after West Java declared a COVID-19 emergency status, Governor Ridwan Kamil launched the West Java COVID-19 Information and Coordination Center (Pikobar) *website*. 16 days later, we launched the Pikobar *mobile application.*

Pikobar provides real-time data & analytics to monitor West Java COVID-19 case development. It also serves as a public participation hub.

1,069,698
Installed Pikobar Apps

Version 2.2.1
Pikobar Development

Best Public Service
for Covid-19 Management
Ministry of Administrative and Bureaucratic Reform, 2020

More than 20 emergency features support Pikobar, including:

- *Emergency Number*
- *Data Cases*
- *Donation*
- *Hoax Clean Sweep*
- *Massive Test QR Code*
- *Self-Diagnosing*
- *Safety Net*
- *Contact Tracing*
- *Daily Isolation Report*
- *etc.*

(Source: Jabar Digital Service, October 7th.)

Provincial Government
of West Java

DESA DIGITAL

eFishery

DIGITAL VILLAGE

Digital Villages: Optimising villages economic potential through technology innovation.

2019 → 2020

THEMATIC DIGITAL VILLAGE
FISHERY
IoT implementation and smart auto-feeder machines to increase the quality and productivity of fish and shrimp cultivation

FREE WIFI
DIGITAL VILLAGE
Installing internet infrastructure (Very Small Aperture Terminal/VSAT) in blank spot areas in rural West Java. Villages which previously had no internet connection are now provided with free WiFi

THEMATIC DIGITAL VILLAGE
TELEMEDICINE
Online platform to help interim remote diagnosis to compensate the lack of healthcare facilities and medical specialists in rural areas

THEMATIC DIGITAL VILLAGE
AGRICULTURE
IoT technology implementation to increase agricultural productivity, reduce cost, and minimize harvest failure for rural West Java farmers

2019		2020
98 Independent Villages	+172	270 Independent Villages
1232 Developed Villages	+399	1631 Developed Villages
3656 Developing Villages	-366	3290 Developing Villages
326 Underdeveloped Villages	-205	121 Underdeveloped Villages

There is a total of 571 villages in West Java transforming from underdeveloped and developing status to developed and independent, even during this COVID-19 crisis.

DIGITAL VILLAGE PARTNERSHIPS

LEVEL 1. INFRASTRUCTURE

Rumps up on internet infrastructure and procurement with BAKTI in over 400 villages.
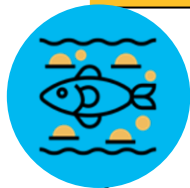
LEVEL 2. DIGITAL LITERACY

Providing digital literacy training from partners and community including Patriot Desa and local IT volunteers.

LEVEL 3. TALESA/E-COMMERCE

Work with various partners including Tokopedia to increase the potential resource in the villages, already implemented in 25 areas across West Java.

LEVEL 4. FISHERY

Collaborating with eFishery, we deploy IoT to optimise fishery cultivation. The program have been implemented in 2 regencies

LEVEL 4. AGRICULTURE

Collaborating with Habibi Garden, we deploy IoT to increase agricultural production, 2 villages in 2 regencies have earned notable benefits

LEVEL 4. TELEHEALTH

Collaborating with Docta, telemedicine is deployed in villages with minimum medical healthcare workers. 6 villages in Garut received this service.

LEVEL 4. EDUCATION

Collaborating with Edubox, we complement education facilities using smart routers for offline access, implemented in 4 villages at 3 regencies.

LEVEL 4. MULTIMEDIA

We invited 10 villages and communities in West Java to join multimedia training in creative content and content creator.

AGRICULTURE DIGITAL VILLAGE

Cimenyan Village,
Bandung Regency
(Red Onion Farmer)

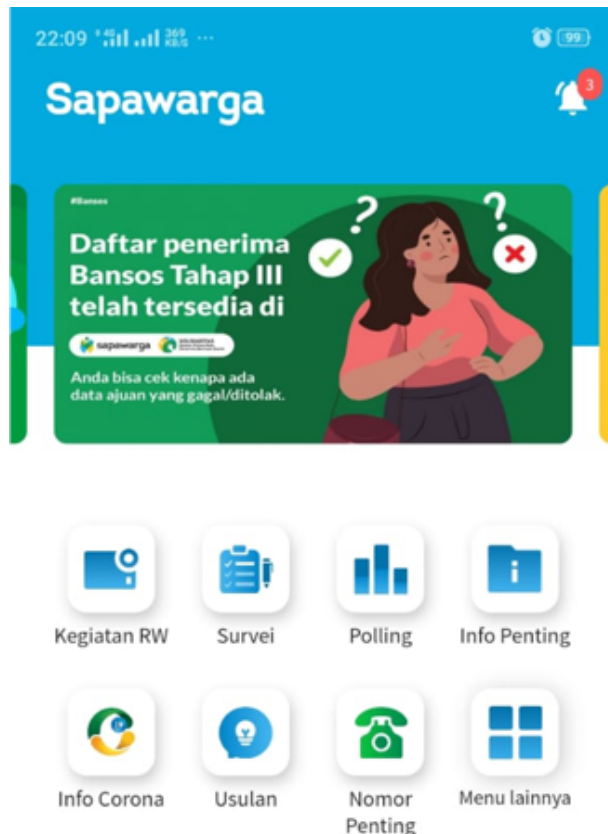

Pasirlangu Village,
Bandung Barat Regency
(Pepper Farmer)

DIGITAL ECONOMY CENTER

MOBILE ENGLISH COURSE

SAPAWARGA

We use Sapawarga as a digital tool to bridge direct communications between citizens and the West Java Government. At the moment, Sapawarga is available for Community Leaders (Ketua RW)

Aspiration

Citizens can channel their complaints, input, and ideas directly to the Government. The app also serves as a public participation platform through polls and surveys.

Information

Citizens can stay informed and updated with government programs and policies through broadcast messages.

Social Aid Verification

Responding to the Covid-19 crisis, Community Leaders are now able to assist bottom-up social aid beneficiaries' data verification through Sapawarga.

Public Services

Citizens can enjoy more efficient and easily accessible public services online.

IN NUMBERS

47,733
smartphones have been given as micro-grants to Community Leaders

40,298
registered users

10,196
monthly active users

(Source: Jabar Digital Service, October 7th.)

DIGITAL VILLAGE : COLLABORATION

Sponsors

Companies that want to entrust CSR funds to build West Java Digital Village

Innovators

Startups or technology companies that want to collaborate with the West Java Digital Village program

Volunteers

Consultants or social volunteers from communities or universities who want to contribute to the West Java Digital Village program

Beneficiaries

Villages that want to be assisted through the West Java Digital Village development program

Desa Digital

ONE DATA AND ONE MAP

SATU DATA JAWA BARAT

An integrated *data* and *geospatial information* management and sharing platform for West Java agencies to support more informed decision making processes.
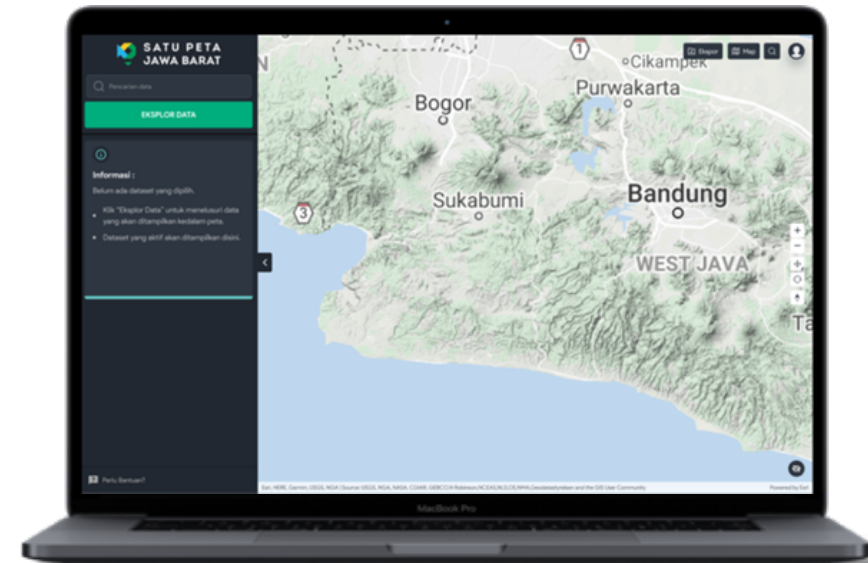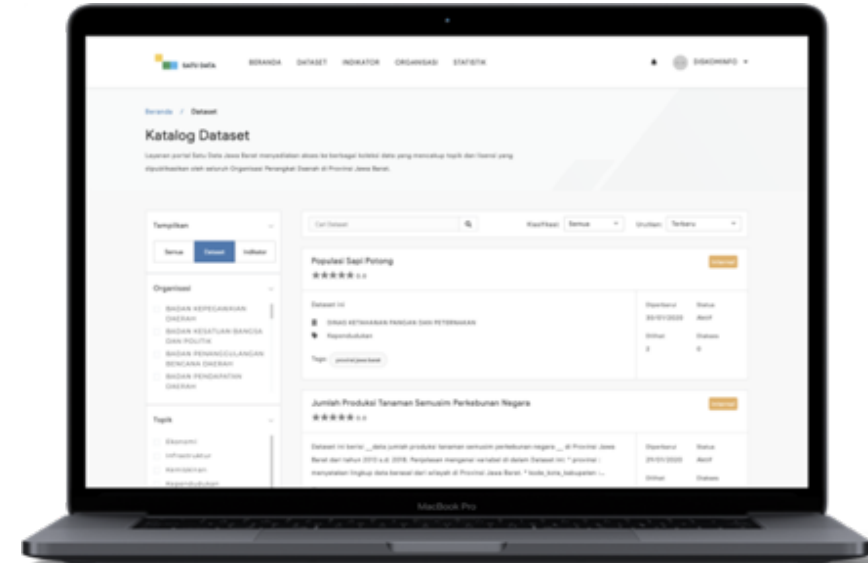
OPEN DATA

A public data publication platform for more transparent and accessible government-managed data.

https://data.jabarprov.go.id

DIGITAL TRANSFORMATION AWARDS

Provincial Government of West Java

**DX Leader
(Ridwan Kamil)**

IDC Digital Transformation
Award 2019

**Best Adaptation
(Desa Digital)**

GovInsider Digital Innovation
Award 2019

**Best Team Under 35
(Jabar Digital Service)**

GovInsider Digital Innovation
Award 2019

**Recognition Of Excellence
(Desa Digital)**

OpenGov
2019

**Digital Equity and
Accessibility
(Desa Digital)**

IDC Smart City Asia/Pacific
Awards (SCAPA) 2020

**Top 21 Inovasi Pelayanan Publik
Penanganan COVID-19
(Pikobar)**

Finalis Kompetisi Inovasi
Pelayanan Publik

**DX Leader
(Setiaji)**

IDC Digital Transformation
Awards (DXa) 2020

**Special Award for
Resiliency
(Pikobar)**

IDC Digital Transformation
Awards (DXa) 2020

Thank you

Provincial Government of West Java