

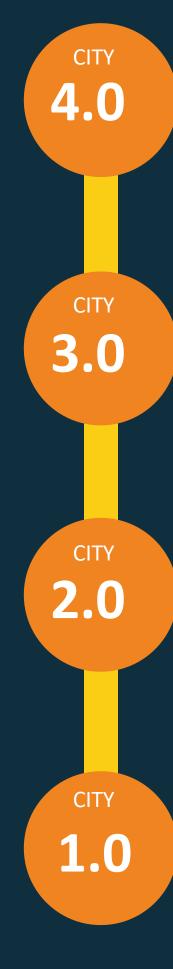
Building a SMART CITY 4.O: A Collaboration for a Better Jakarta

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4 LEVELS OF CITY EVOLUTION



by **Marcus Foth**, Professor of Urban Informatics, Queensland University of Technology The city government as a collaborator. Citizens as co-creators.

The city government as a facilitator. Citizens as participants.

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

The city government as an administrator. Citizens as residents.

Governor's Vision and Mission

Maju Kotanya, Bahagia Warganya

the More Developed the City is, the Happier the Citizens are

Jakarta City 4.0's objectives:

- use appropriate technologies to foster digital economic growth; and
- improve the well-being and quality of life of Jakarta's citizens. •





Sustainable Development Programme

Collabolator

Government

Co-Creators

Citizen

Academia

Media

Industry/Business/Investor

Other Governments

Vision and Mission JAKARTA CITY 4.0

Digital Technologies and Innovation

Cloud

Big Data

AI

Blockchain



Road Congestion



Medical Services



ΙοΤ

Parking space



Flooding



Waste Management and Recycling



Public Transport



Air Pollution

Drink Water



School education



Unemployment



Local government services



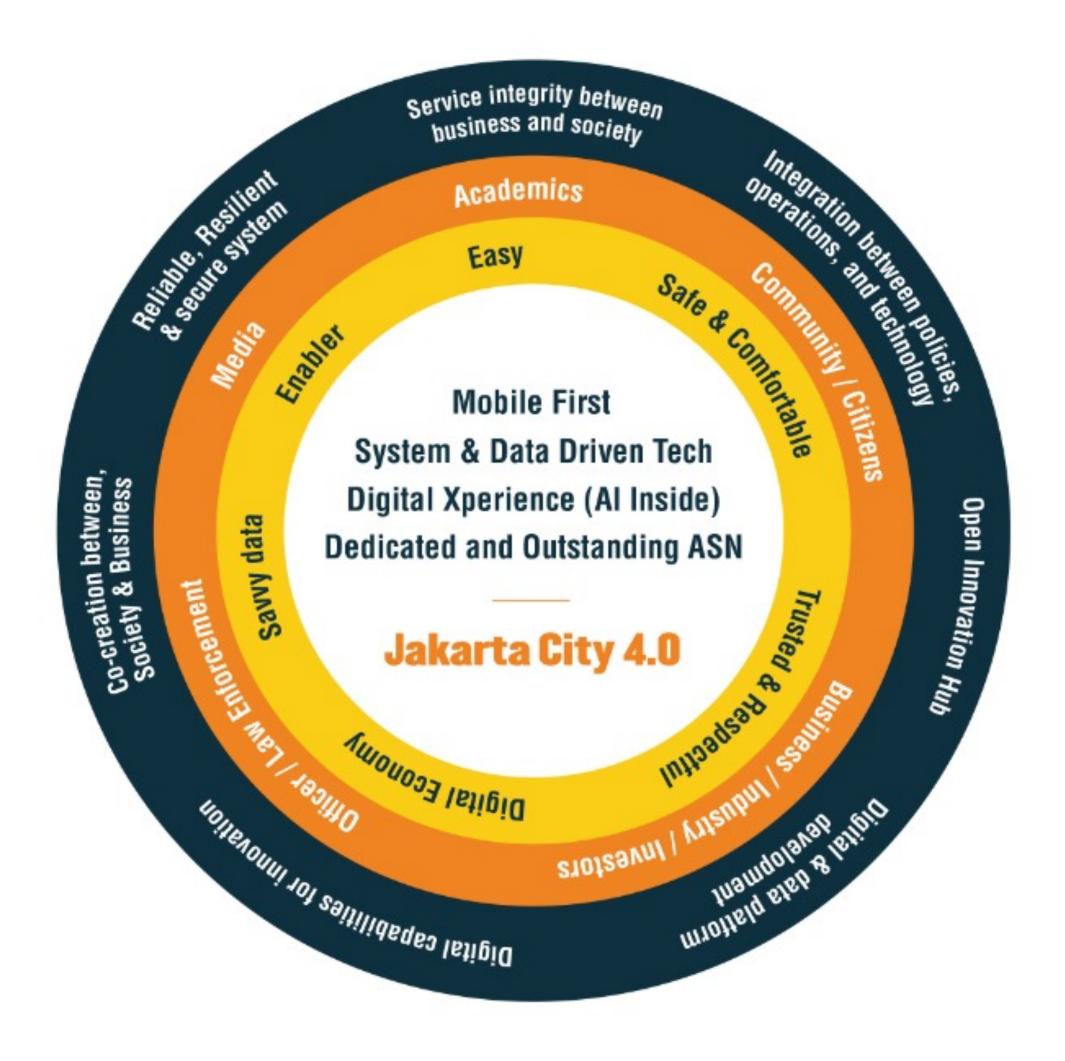
Green spaces

Jakarta's Problems

Citizen's Needs

Developed City

Happy Citizens



Jakarta City 4.0

4 Principles

5 Stakeholders

6 Outputs

7 Strategies



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ABOUT

- 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

JAKARTA SMART CITY

- Established in 2015
- A management unit under Department of
 - Communications, Informatics and Statistics of Jakarta **Provincial Government**

CITIZEN CENTRIC PLATFORM



The official information center application of the DKI Jakarta Provincial **Government that integrates various** public services in Jakarta

"ONE APPLICATION FOR VARIOUS NEEDS IN JAKARTA"





Citizen-Oriented

Complete and facilitate access to public services

ONE-STOP-SERVICE

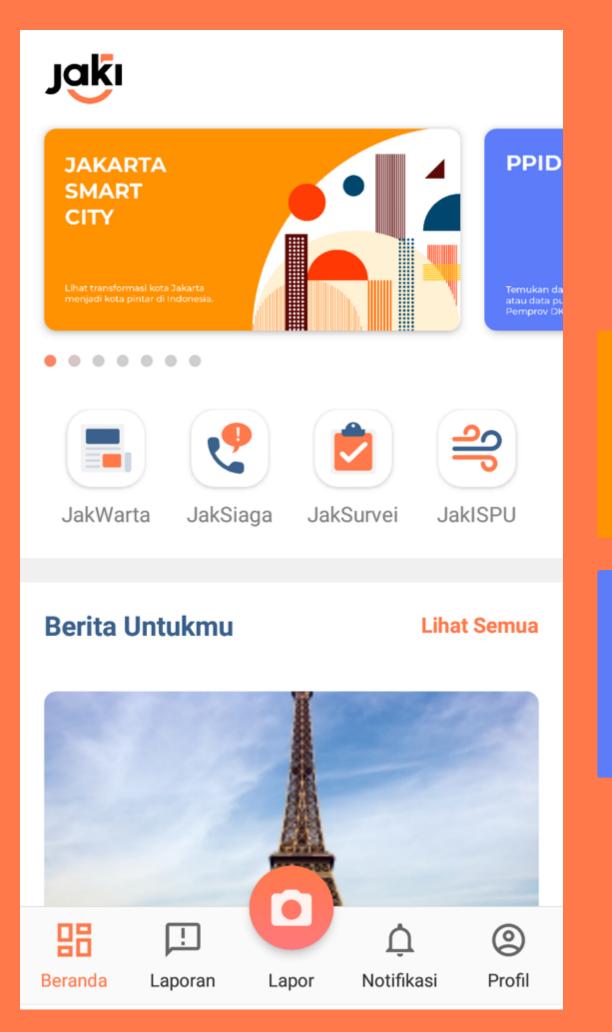
Official information center to help the community

An integrated, inclusive, transparent and solutive official application

City-based App

PROVIDE NEW SPACE

Provide space and opportunities to report problems



ONE-STOP-SERVICE



This feature displays various services of the DKI Jakarta Provincial Government that have implemented Information and Communication Technology that can be useful for the community. This banner can also display various applications from the collaboration of the DKI Jakarta Provincial Government and startups as a form of City 4.0 implementation

Utilizing IoT in Jakarta

IoT uses internet connection to connect devices in order to monitor and <u>control</u>.

The **Application of O** by Jakarta **Provincial Government:**



Monitors TransJakarta buses





Monitors air quality





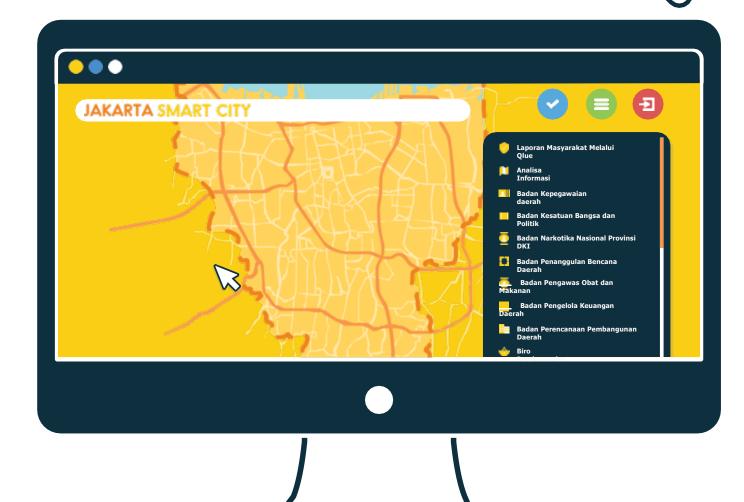
Monitors garbage truck and heavy duty vehicles







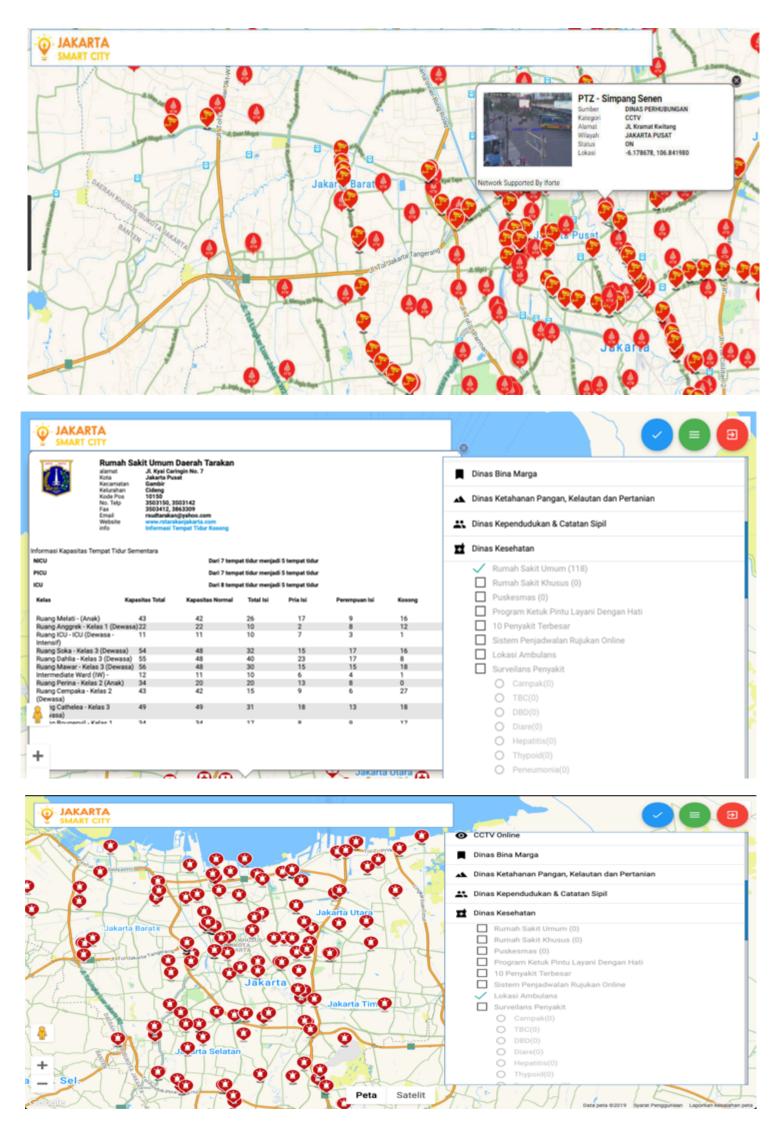
smartcity.jakarta.go.id/maps



Jakarta Smart City Maps

You can find out information:

- Real-time impressions of more than 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



CCTV Integration

7.717 CCTVs (*data on August 2019)

Hospital Room Availability

Tracking Ambulances

Cepat Respon Masyarakat merupakan sistem integrasi seluruh kanal pengaduan untuk dapat ditindaklanjuti secara cepat dan tepat oleh Pemprov DKI Jakarta.

Saat ini terdapat 12 kanal pengaduan resmi yang telah terintegrasi dengan Cepat Respon Masyarakat

7	@DKIJakarta							
f	Pemprov DKI Jakarta							
•	QLUE							
@	dki@jakarta.go.id							

Jakarta Provincial Government Official Aspiration Platforms

A mobile and web application for the Province Level (Agency, Department, and Bureau) and City Administratitive Level (District, City, and Sub-Agency) to coordinate and handle the citizen report easily and efficiently.



- SMS 08111272206
- LAPOR 1708
 - Sosial Media Gubernur



Kantor Kecamatan



Pendopo Balai Kota



Kantor Inspektorat

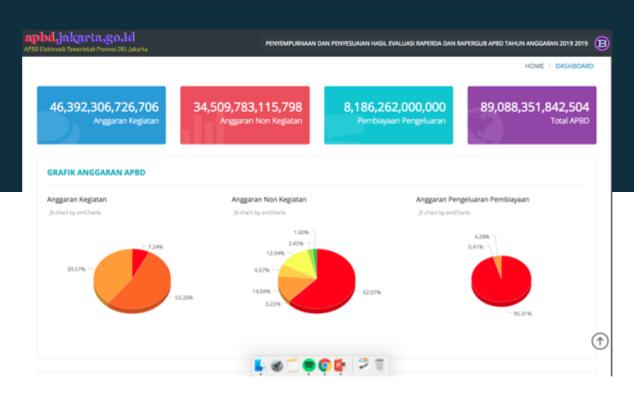
OPEN DATA

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 therefore that the community can keep track and evaluate the performance of the government.



Open Data Portal

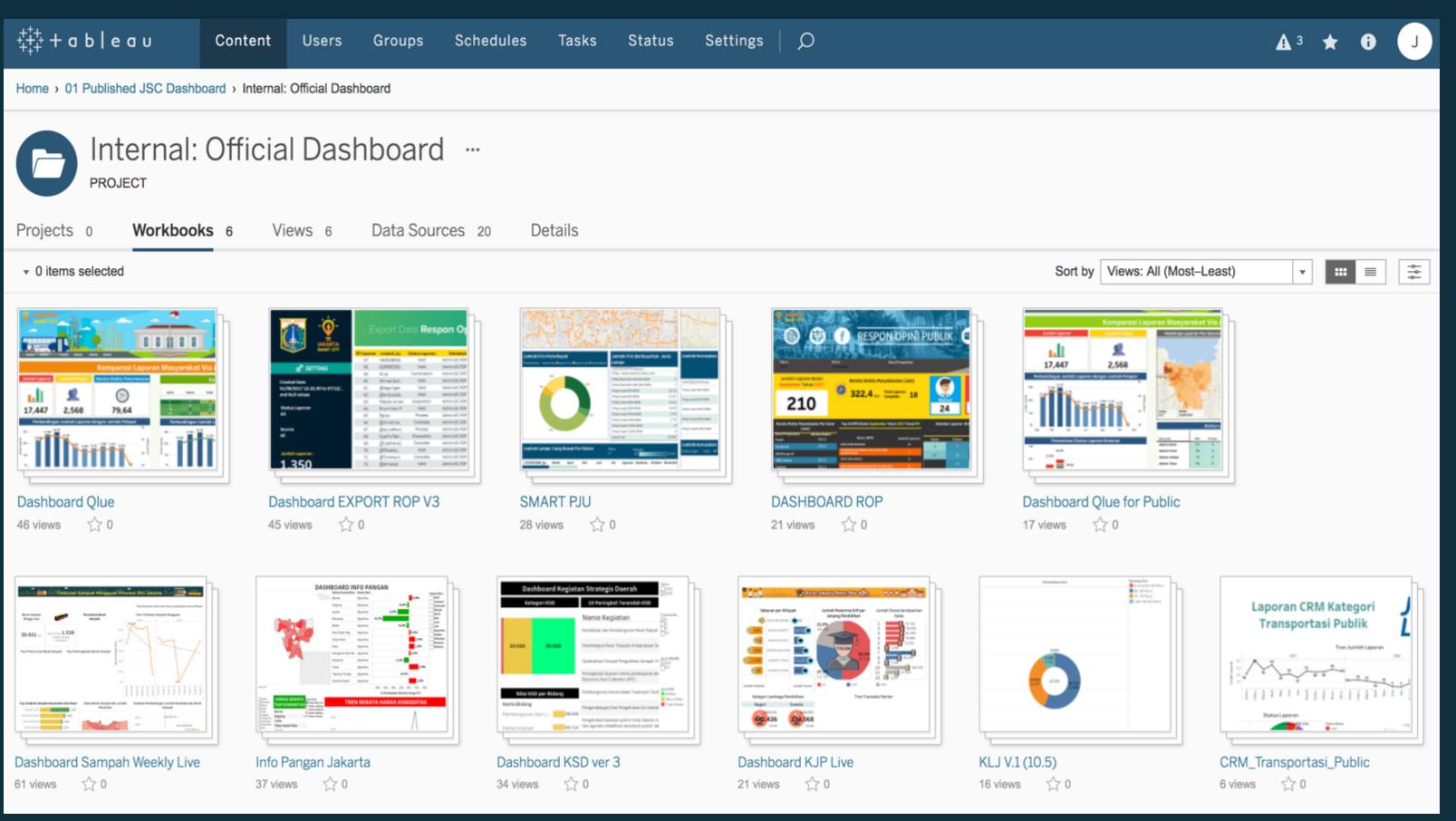
Presenting data and information from all Agency of Jakarta Provincial Government needed by the community and fulfilling public rights as a form of e-government implementation in realizing transparent and accountable governance. *data.jakarta.go.id*



APBD Jakarta

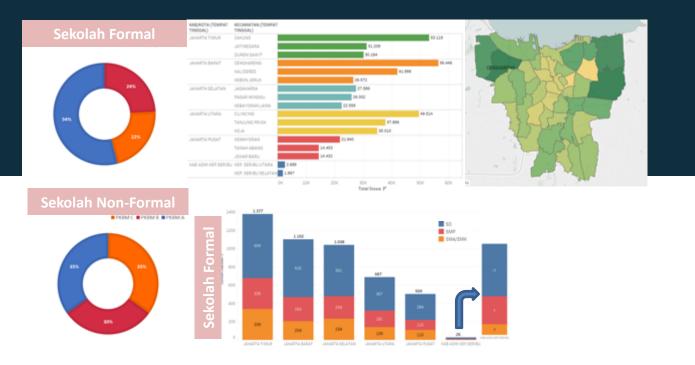
The DKI Jakarta Electronic Budget is a platform for realizing open government in Jakarta. Through this website, the public can see in detail the DKI Jakarta provincial budget annually. *apbd.Jakarta.go.id*

GOVERNOR & STRATEGIC INITIATIVES DASHBOARD



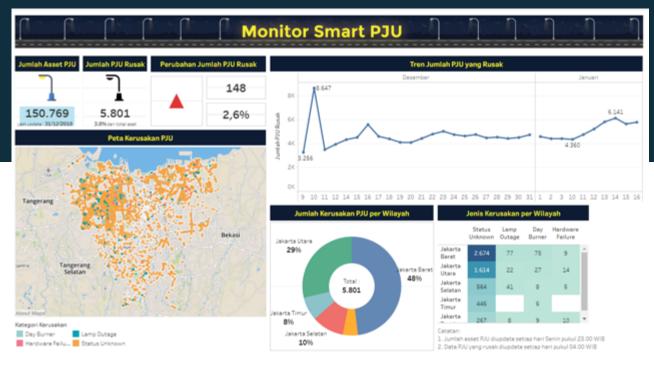
DATA DRIVEN POLICY

Analytics Kartu Jakarta Pintar Plus



- Supervising and detect irregularities in the use of KJP together with the Jakarta Education Agency and Bank Office
- Supporting policy making relating to underprivileged school students (eg book bazaar, cheap basic food, free Transjakarta)
- Providing information regarding the habitual pattern of
 KJP usage transactions for each student
- Providing information regarding the problem use of KJP and the absorption of the KJP budget

Public Street Light Smart System Dashboard



- Knowing the number of public street lighting assets
- Displaying a map of public street lighting damage in DKI Jakarta
- Percentage of damage to public street lighting per city area in DKI Jakarta
- Analyzing damage to lamps that are routinely monitored
 Trends of public street lighting damage per day for the
- Trends of public street lighting damage pe past two months

Analytics Citizen Relation Management



ing assets lamage in DKI

- Knowing the number of reports that enter each month
- Knowing how long it takes to solve problems in each category and sub category
- Knowing how long it will take between SKPDs to coordinate reports
- Knowing the number of reports in each report category and sub-category
- Knowing the distribution of reports throughout the DKI Jakarta area

DATA DRIVEN POLICY

Timbulan Sampah Mingguan Provinsi DKI Jakarta ubahan Berat Samoa Minoou Lalu #### #### #### #### ▲531,0% ▲590,5% ▲683,5% ▲827,6% ▲488,6% 1543 1.412 1.243 1.095 1.054 Top 10 Berat S ategori Lokasi Kecamatan Pasa

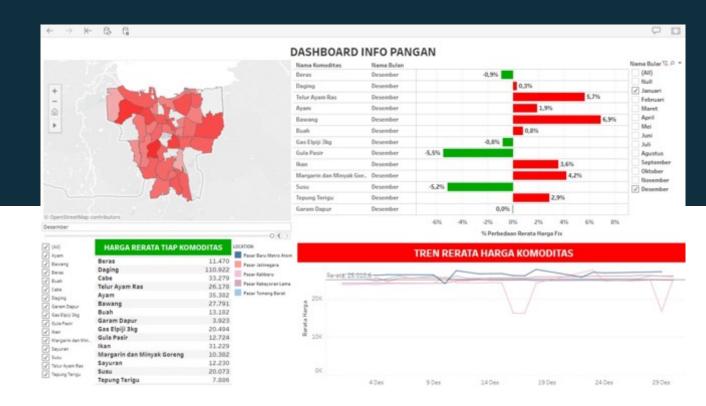
Waste Data in Jakarta Dashboard

- Waste data per sub-district
- Manage the movement of garbage trucks
- Analyzing waste generation data

Regional Strategic Activity Dashboard

Kategori KSD				Jenis KSD Selesai	Urutan KSD						
				_	Belum Selesai Tidak Selesai	No KSD	Nama Kegiatan				
				T Gas deletar	15	Peningkatan Ketahanan Pangan melalui Pemantauan Ketersediaan Pangan Berbasis IT, P				7	
8 KSD 15 KSD					16	Revitalisasi dan Pembangunan Pasar Rakyat dan Pasar Terpadu		50.0			
	37 KSD					17	Peningkatan Peringkat Ease of Doing Business (EOD8)				
						18	Optimalisasi Mall Pelayanan Publik melalui Pembentukan Jakarta Investment Center (JIC) d				
		57 100				19	Pengembangan Pariwisata dan Budaya melalui Revitalisasi Taman Ismail Marzuki				
						20	Pembinaan dan Pengembangan Kewirausahaan Terpadu				
						21	Pengembangan dan Pengelolaan Air Bersih				
						22	Pengembangan dan Pengelolaan Air Limbah dan Air Limbah Komunal			38.57	
						23	Pengendalian Banjir melalui Naturalisasi Sunga Pembangunan Waduk/Situ/Umbung, dan Tanggu				71
	Nilai K	SD per Bid	ang			24	Penyediaan Perumahan melalui Skema Pendanaan Uang Muka Nol Rupiah (DP 0 Rupiah)				60.00
Nama Bidang						25	Pembangunan intermediate Treatment Facility (TF)	8	33		
Kesejahteraan Rakyat					96.385	26	Pengurangan Sampah di Sumber				
Perekonomian dan Ke.					88.303	27	Optimalisasi TPST Bantar Gebang				
						28	Pengembangan T00				
Pembangunan dan Li					88.083	29	Penciptaan Layanan Transportasi Terintegrasi melalui OK-OTRIP				
Pemerintahan					87.116	30	Pembangunan dan Pengoperasian Mass Rapid Transit (MRT)				
			60	80	100						

- Data on achievement of regional strategic activities from various Regional Organizations in Jakarta
- Perform data analysis on regional strategic activities:
- Analysis of achievement of regional strategic activities



Food Information Dashboard in Jakarta

75.90

71.43

93.33 76.92 92.00

82.43

79.31 80 100

94.00 86.67

93.33 91.37 91.32

- Daily commodity price data in Jakarta
- Analyzing food info data in Jakarta:
 - Analysis of commodity price trends in Jakarta
 - Analysis of commodity price trends per region in Jakarta

Collaboration Partner

nodeflux o gojek Shopee 00 tokopedia 🙂 waze ∎Jak zomato Trafi |>>









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Indo relawan .org









ICT Innovation Cluster: A City Tower Provide One-Stop ICT Center with Maximum

Efficiency

- **Open Innovation Center Start-up Cube** Campus Dream Lab **Support Center**
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Thank You

