

KOTA CERDAS

(SMART CITY)

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An aerial photograph of a city, likely Bangkok, showing a wide river (Chao Phraya River) flowing through the center. On the left bank, there are several tall buildings under construction, with cranes visible. The right bank is densely packed with residential buildings. The sky is overcast.

City Criteria

Administrative

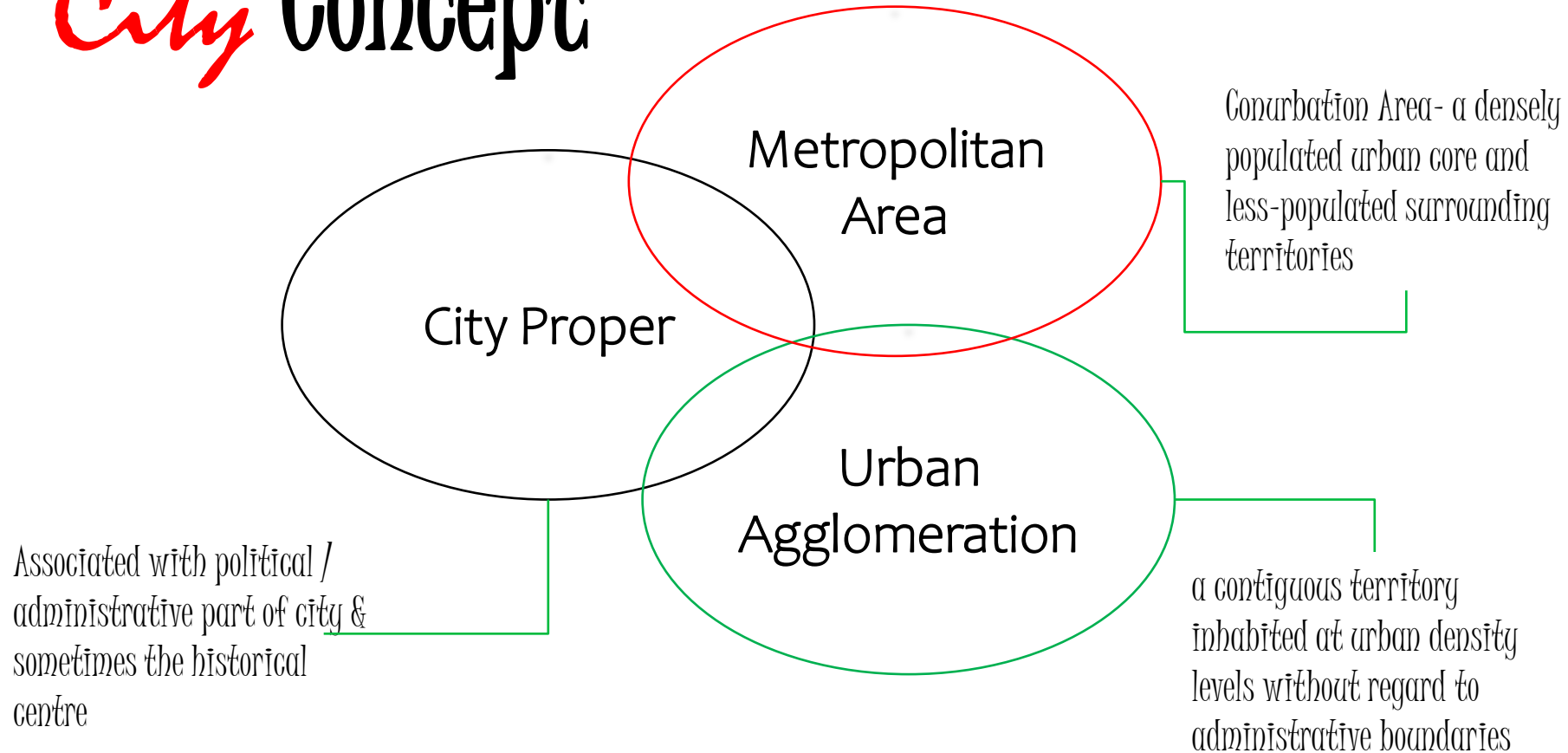
Population Size

Density

Economic function

Actual Population
Threshold

City Concept





Degree of Urbanization

(Population Size & Density based)

City area clustered by population size and density

- Urban Center
 - $>1500/km^2$
 - >50000 person
 - Urban Cluster
 - $>300/km^2$
 - >5000 person
 - Rural
- Densely populated (Cites)
 - $> 50\%$ population live in highly density area
 - Intermediate density area (Town / Suburbs)
 - 50% population live in highly density area, 50% in rural
 - Thinly populated area (Rural Area)
 - $> 50\%$ population live in rural

Urban Extent

(Built Up Area & Open Spaces Based)

City area clustered by sum of built up area or open spaces

- Urban built-up area
 - Density $>50\%$ in $1km^2$
 - Sub-Urban built-up area
 - Density $25-50\%$ in $1 km^2$
 - Rural built-up area
 - Density $<25\%$ in $1 km$
- Fringe open space
 - All open space <100 pixel in urban/suburban
 - Captured open space
 - All open space clusters fully surrounded by urban/suburban, <200 ha
 - Rural open space
 - Other open space



Urban Extent



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City Problems & Issue

Poverty in urban areas

Undeveloped inter-city growth rate

The declining quality of the urban environment

Urbanization and significant increase in urban population

Regional capacity in development and management cities in the decentralized era

Smart *City*



Kementerian
PUPR RI

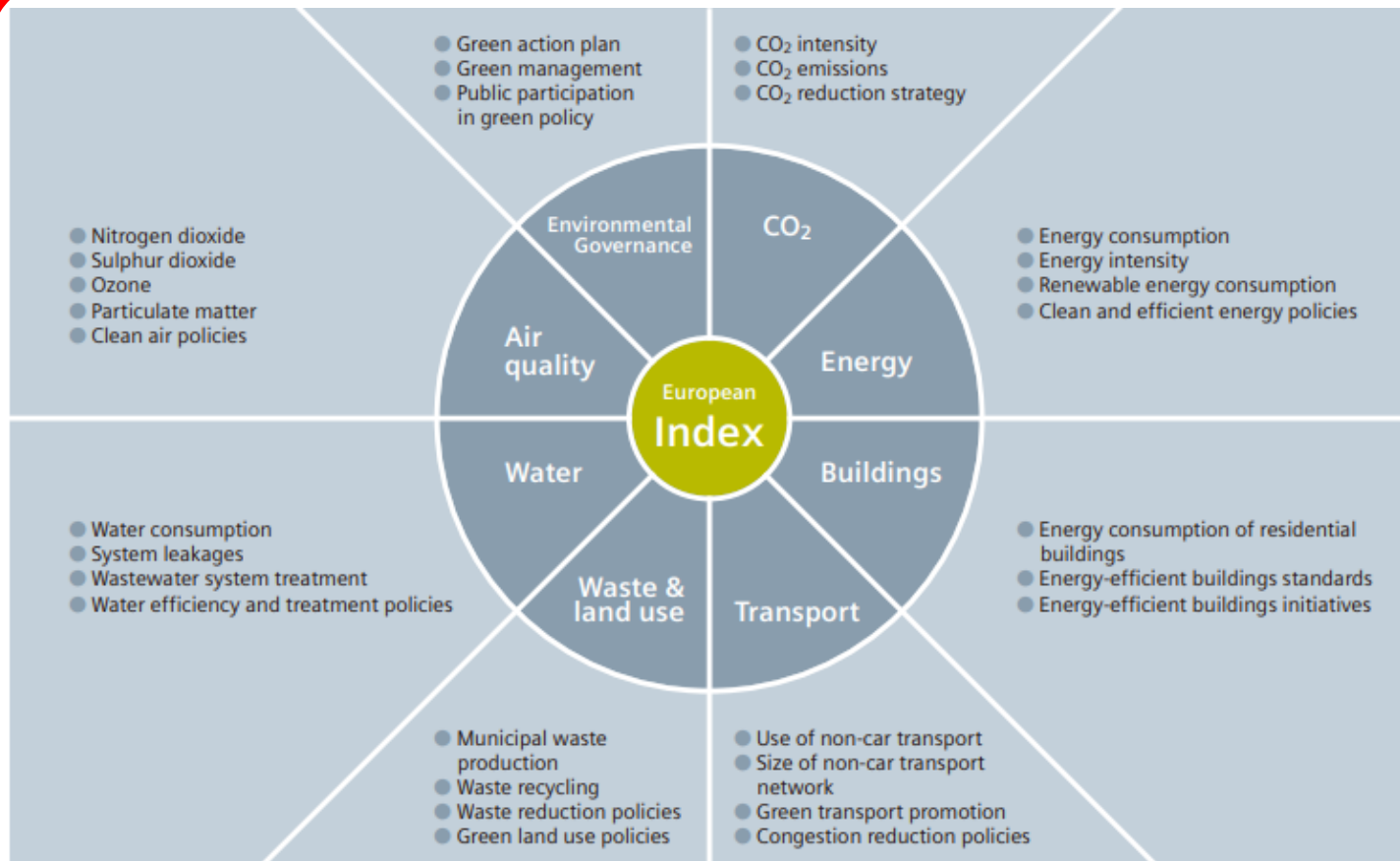
a **city management** concept based on **Information and Communication Technology (ICT)** so that cities become **smarter** and more **efficient** in the utilization of various existing resources, as well as **improving service and quality the life** of the urban community while still **prioritizing environmental sustainability**.

Smart *City*



IBM Smart City Concept

The Green City Index

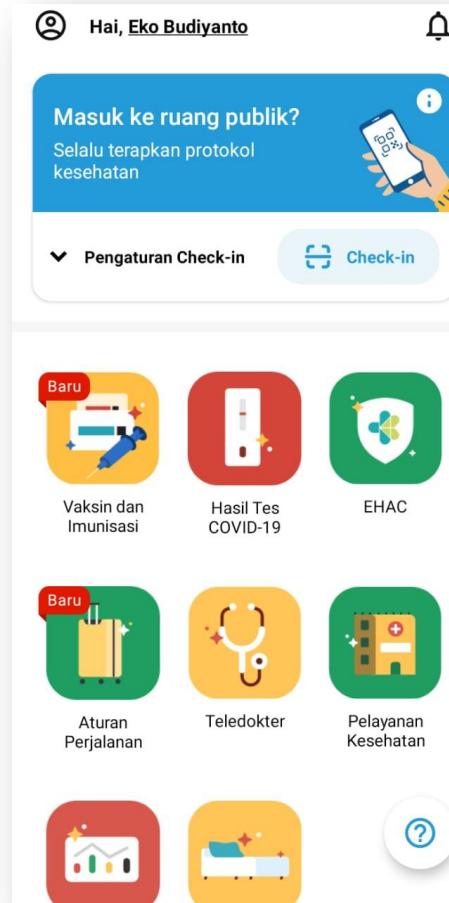


Smart *City*

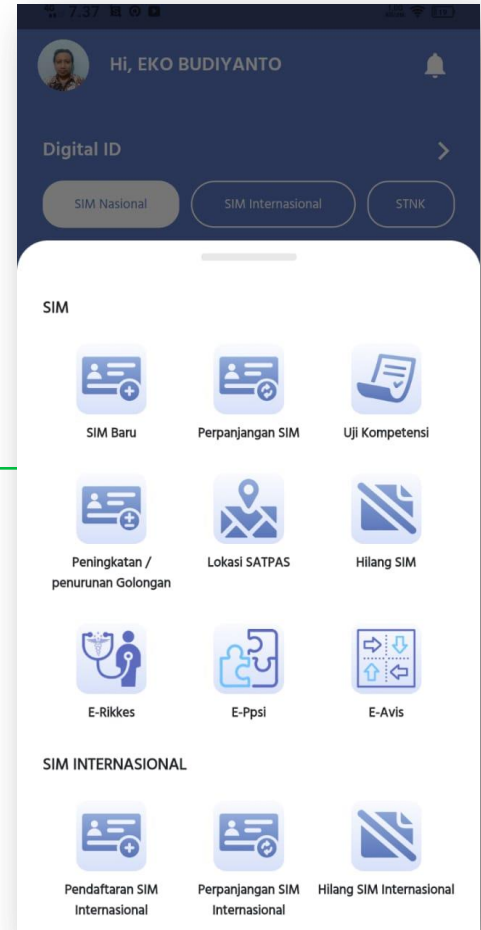
- *Smart Governance*
- *Smart People*
- *Smart Environment*
- *Smart Mobility*
- *Smart Economy*
- *Smart Living*

Smart City

Smart Governance



Peduli Lindungi

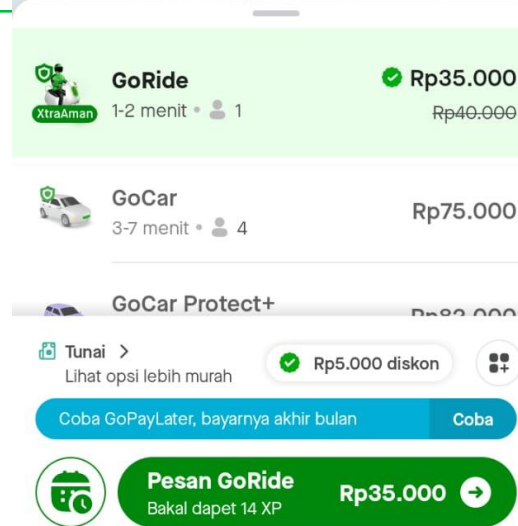
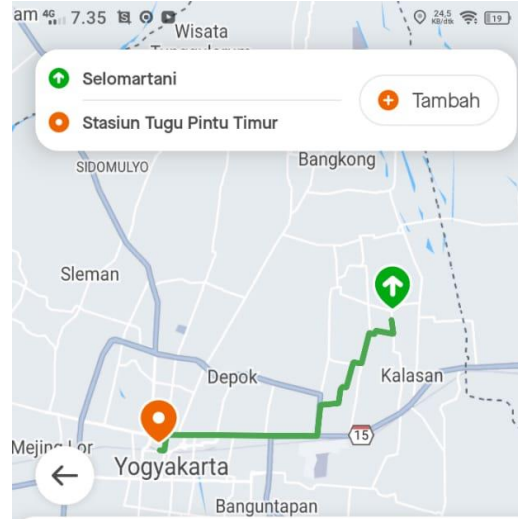


Digital Korlantas Polri

Smart City

Smart Mobility

Connected to
Peduli Lindungi



Google Maps

Situs web

Google Maps adalah layanan pemetaan web yang dikembangkan oleh Google. Layanan ini memberikan citra satelit, peta jalan, panorama 360°, kondisi lalu lintas, dan perencanaan rute untuk bepergian dengan berjalan kaki, mobil, sepeda, atau angkutan umum.

[Wikipedia](#)

Tanggal diluncurkan: 8 Februari 2005

Diluncurkan: 8 Februari 2005; 17 tahun lalu

Tokoh penting: Jens Eilstrup Rasmussen; (Penemu & Pendiri); Lars Rasmussen (Pendiri)

Daftar akun: Opsional, terikat dengan akun Google

Jenis situs: Pemetaan web

Pemilik: Google

Smart *City*

Smart Economy



Bank  **BTN**

Mobile Banking

#AyoPunyaRumahDenganBankTabungan



AKTIVASI



PENGATURAN

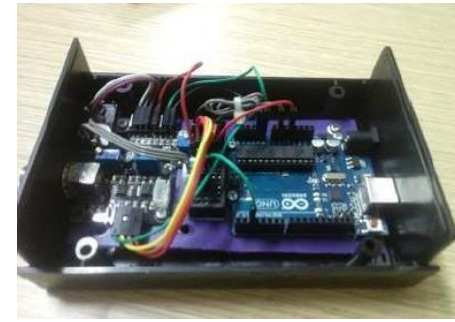
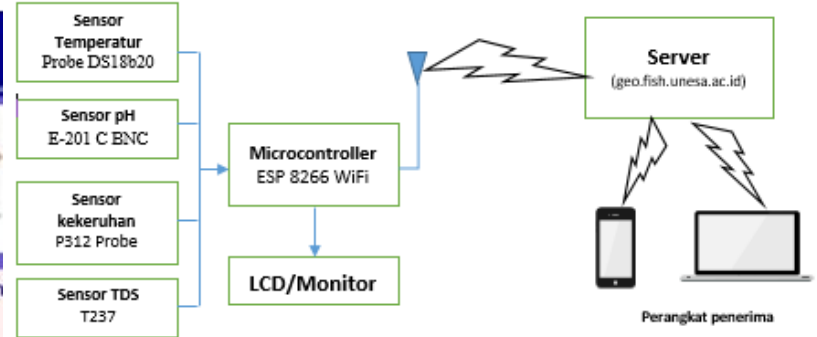
Smart City

Smart Environment

Smart Water Quality Monitoring and Management System



No. Urut	Waktu	Volume	Waktu	Volume	Waktu	Volume	Waktu	Volume
1	11:00:00	100	11:05:00	100	11:10:00	100	11:15:00	100
2	11:15:00	100	11:20:00	100	11:25:00	100	11:30:00	100
3	11:30:00	100	11:35:00	100	11:40:00	100	11:45:00	100
4	11:45:00	100	11:50:00	100	11:55:00	100	12:00:00	100
5	12:00:00	100	12:05:00	100	12:10:00	100	12:15:00	100
6	12:15:00	100	12:20:00	100	12:25:00	100	12:30:00	100
7	12:30:00	100	12:35:00	100	12:40:00	100	12:45:00	100
8	12:45:00	100	12:50:00	100	12:55:00	100	13:00:00	100
9	13:00:00	100	13:05:00	100	13:10:00	100	13:15:00	100
10	13:15:00	100	13:20:00	100	13:25:00	100	13:30:00	100



<https://geo.fish.unesa.ac.id/page/aplikasi-smart-water-quality-monitoring-and-management-system>

<https://geo.fish.unesa.ac.id/page/perangkat-sensor-kualitas-air-pada-jaringan-air-minum>

Terima Kasih