Urban Management (Green Transformation)

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The 2045 Golden Indonesia Vision

Development Agendas

Urban and Rural Area as Centre of Economic Growth

Inclusive and Sustainable City

Livable, Inclusive, and Cultured Cities: livable houses, ready-to-drink water, multimodal transportation, waste and wastewater management, education, access-based health on digital learning performance and online access to integrated digital health services, provision of new and renewable energy, encourage the implementation of a disciplined and healthy urban culture

Green and Resilience Cities: efficiency and utilization of new and renewable energy, implementation of low-carbon principles in residential, office, business, and commercial areas, provision of safe and inclusive public green open spaces. This is integrated with integrated water resources management and flood control, real-time warning systems for air quality, water, and disaster events (affected area)

Advanced and Prosperous Cities: compact city in urban service provision, implementation of integrated intermodal activities, development of green and smart infrastructure, walkable city, enhancement of high leverage (productive) activities, preparation of multi-specialty talents including for ICT development, research and innovation, and future industry clusters

Development Indicators

Environmental Quality

- greenhouse gas emission decreased: **93,5%**
- greenhouse gas emission reductions (cumulative): **51,51%**
- new and renewable energy in the primary energy mix: **70%**
- households with access to safely managed sanitation: **100%**
- households have access to decent, safe and affordable housing: **100%**
- waste generation processed in waste processing facilities: **90%** (**35% recycled**)
- green economy index: **90,65%**
  environmental quality index: **76,12%**
- energy resilience index: **8,24**

Development of technology Digital

- adoption and adaption of technological developments (digitalization)
- superior human resources of national science, technology, and innovation (IPTEKIN)

Actual Conditions

the area of Indonesia is **8.3** million km^2 , with water area of **6.4** million and a land area of **1.9** million km^2

total Population: **284.060.836**
equivalent to 3.47% of the total world population

in 2024, **59%** of the population lives in urban areas. It is estimated that in 2045, around **70%** of the population will live in urban areas

urbanization is the primary driver of land use change

Environmental Quality

greenhouse gas emission decreased: **31,42%** (2021)

greenhouse gas emission reductions (cumulative): **27,07%** (2021)

new and renewable energy in the primary energy mix: **12,6%**

households with access to safely managed sanitation: **12,5%**

households have access to decent, safe and affordable housing: **63,15%**

waste generation processed in waste processing facilities: **15%** (**13% recycled**)

green economy index: **70,8%**
environmental quality index: **72,42%**

energy resilience index: **6,64**

Urban development

urban development has not fully integrated sustainable principles**. 75%** of urban areas being vulnerable to flooding (World Bank, 2021)

a notable scarcity of technological innovations aimed at enhancing disaster resilience in cities

Urban Affairs Indonesia

Government Regulation Num. 59 of 2022 | Urban service standards

DATA USING SUSTAINABLE URBAN INDEX

Indicators for city services and quality of life

a tool for measure social justice, economic, well-being, sustainability, and environmental health for current and future generations

Indicators for smart cities

a tool for measure the effectiveness and efficiency of urban services through innovation, collaboration, and the use of digital technology, tailored to meet the needs of urban residents

Indicators for resilient cities

a tool for measure of urban services that includes the ability to withstand, adapt to, and be resilient to the continuous pressures and major shocks faced by the city

Sustainable Urban Index	a measure of the service level to the performance of public facilities and social facilities services to 20 sectors

COMMUNITY PERCEPTION USING SUSTAINABLE URBAN PERCEPTION INDEX

Benefit standards

used to ensure the citizens receive benefits

Fairness standards

used to ensure that all community groups including vulnerable groups can utilize urban services equitably

Affordability Standard

used to ensure that urban residents in every part of the urban area can reach urban services effectively and efficiently

Value Standard	a measure on urban residents' perception of the degree of satisfaction

Urban Maturation

Definition and Indicator

A mechanism that provides an evaluative instrument description of the ability of urban management (cities as autonomous regions and urban areas) to meet urban service standards from planning, implementation to operation and maintenance of urban services to achieve sustainable development based on Indonesian National Standards (SNI), and it can provide recommendations for strategies in improving its implementation

SNI ISO 37120:2018
Indicators for city services and quality of life

SNI ISO 37122:2019
Indicators for smart cities

SNI ISO 37123:2019
Indicators for resilient cities

Note:
Indicators (as intended) adopted directly from ISO (International Organization for Standardization) using the monolingual translation method

Purpose

- encouraging local governments to meet urban service standards
- provide constructive recommendations to improve or enhance the effectiveness and innovations in urban services.
- realizing urban services with international standards
- as an input material for the drafting of the Minister of Home Affairs Regulation on urban service standards and (Indonesian National Standard (SNI) adjustments tailored to the conditions and characteristics of cities)
- provide an overview of urban service facilities, operation, and maintenance

Urban Maturation

the maturation for implementation of urban management through Indonesian National Standard (SNI)

1. economy
2. education
3. energy
4. environment
5. finance
6. governance
7. health
8. housing
9. population and social conditions
10. recreation
11. safety
12. solid waste
13. sports and culture
14. telecommunications
15. transportation
16. urban/local agriculture and food security
17. urban planning
18. wastewater
19. water

Data is sourced from local government administration reports, survey reports conducted by the central statistics agency, other relevant data, and/or other verified data providers

CLASSIFICATION BY SECTOR

1.	**Governance**	:	governance
2.	**Economy**	:	economy, finance
3.	**Urban life**	:	health, housing, recreation, safety, sports and culture, urban planning, urban/local agriculture and food security
4.	**Society**	:	education, population and social conditions
5.	**Environment**	:	energy, environment, solid waste, wastewater, water
6.	**Mobility**	:	telecommunications, transportation

Government Regulation Num. 59 of 2022 | Component of Smart City

Innovation, collaboration, and/or utilization of digital technology in according to the needs of citizens is carried out with a **smart city approach**

GOVERNANCE

- public service improvement
- bureaucratic efficiency
- efficiency & transparency in policy making

ECONOMIC

- business ecosystem development & ease of doing business
- digital marketing
- welfare of society
- transparent financial transactions
- urban digital marketing

URBAN LIFE

- affordable and integrated services
- safe and comfortable home environment for citizens
- safe and comfortable work environment and other activities for citizens

SOCIETY

- open to information, non-discriminatory, and non-intolerant
- adapt to technological advances
- disciplined and organized in doing activities in the city
- implementing a culture of mutual respect and ethics

ENVIRONMENT

- waste, garbage and air pollution management
- wise utilization of natural resources
- climate and disaster resilience
- environmentally sound management and green energy
- urban facelift

MOBILITY

- effectiveness and efficiency of movement of people and goods
- environmentally friendly and healthy transportation
- management of an integrated transportation system and utilizing technological advances

Local Government Innovation

Pontianak, Kalimantan Barat

TPA batu layang landfill turn into a green hill through Mobile Garden Collection (Komanda) innovation

Balikpapan, Kalimantan Timur

reducing energy consumption through more efficient building design, use of sustainable building materials, and utilization of renewable energy such as solar power.

Manado, Sulawesi Selatan

building environmental and social infrastructure (PBL-Mapalus) to involve restoration activities, such as reforestation and land rehabilitation,

Pekanbaru, Riau

a Biogas Power Plant (PLTBg) that utilizes palm oil waste from palm oil mills to generate electricity

Makassar, Sulawesi Selatan

made a program with the concept of urban farming is lorong garden program, which developed into a productive program by inserting the concept of agriculture in city alleys

Palembang, Sumatera Selatan

improving the performance of drainage system to reduce river pollution and improve water quality

Bandar Lampung, Lampung

innovation to manage organic waste into compost, and then can be resold by the community

Surabaya, Jawa Timur

citizens can sell their segregated waste to waste banks, providing a new source of income.

Badung, Bali

innovation in reducing plastic waste generation through preventive efforts (reduce) by reducing the use of plastic bags

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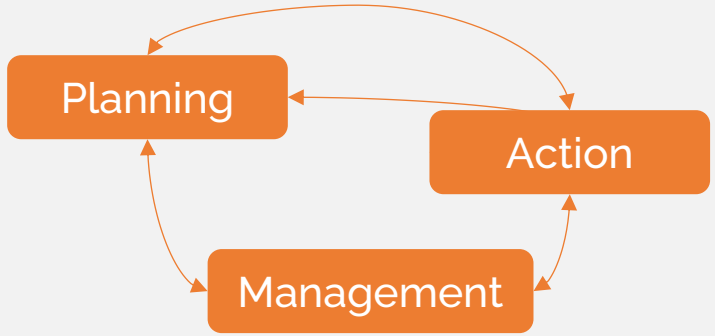
The Government Intention

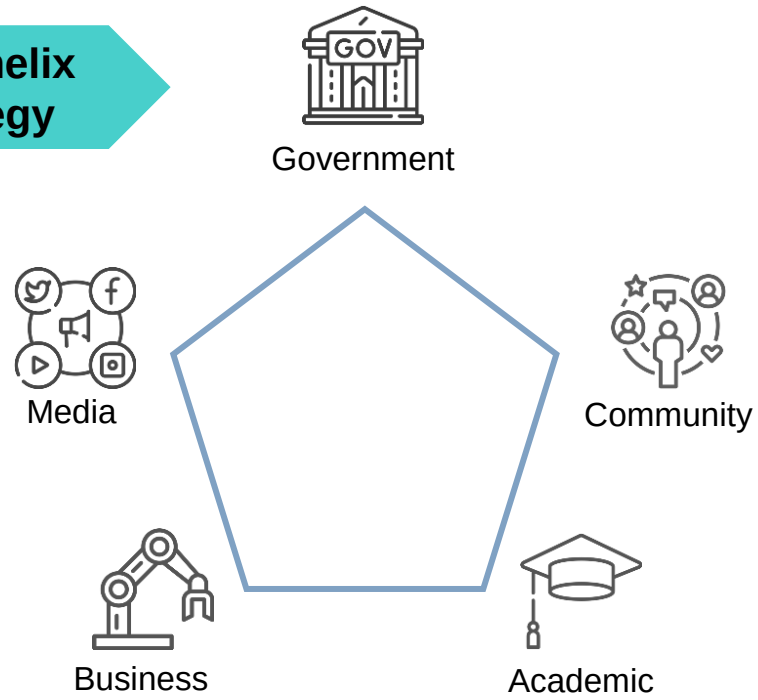


The implementation of urban management refers to an integrated and sustainable approach encompassing planning, execution, and oversight, aimed at delivering urban services effectively and efficiently. This is achieved through innovation, collaboration, and the continuous advancement of digital technology, all with the goal of providing services to urban residents, ensuring a safe and comfortable urban living environment

COMMITMENT AND COLLABORATION ARE THE KEY

A combination of strong commitment and collaboration across sectors and stakeholders plays a crucial role in driving innovation, fostering sustainable solutions, and ensuring that urban management initiatives are effectively implemented for the benefit of the entire community

Pentahelix Strategy



Principles of urban management

1. Inclusive
2. Equitable
3. Sustainable
4. Integrated
5. Synergy
6. Openness
7. Resilience
8. Efficient
9. Accountable

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THANK YOU