



Outline

- 01. Issues on Urban and Infrastructure Development
- O2. Policy Direction on Urban and Infrastructure Development in Indonesia
- 03. Integrated Infrastructure Planning for Urban and Regional Development
- National Urban Development Project (NUDP) as Collaboration Platform



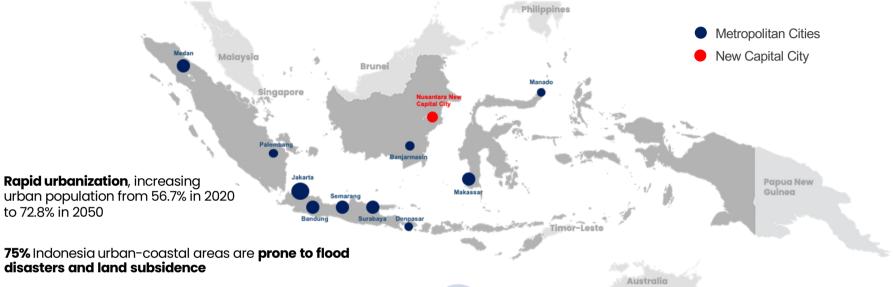
01.

Issues on Urban and Infrastructure Development



Urban Challenges in Indonesia







<15% urban population has access to safe and adequate drinking water



8.85% urban population has access to adequate and equitable sanitation



4 of 10 urban households live in substandard houses



Increasing air pollution caused by vehicular emissions



>100 Million USD economic loss per year caused by congestion in 6 big cities: Jakarta, Bandung, Surabaya, Bekasi, Medan, Makassar



Urban infrastructure financing is **highly dependent on** state/regional budgets





Paris Agreement



Strengthen countries' ability to deal with the impacts of climate change

Sendai Framework for Disaster Risk Reduction



Disaster risk reduction

Sustainable Development Goals (SDGs)





SDG 11: Sustainable Cities and Communities

New Urban Agenda (NUA)



e.g. Basic services and safe and affordable housing; transportation system for all; improve road safety, Public and green open space

Indonesia is committed to achieve global targets, such as provision of basic infrastructure (drinking water, sanitation, housing) for sustainable cities.



02.

Policy Direction on Urban and Infrastructure Development in Indonesia



Indonesia's Urban Policy and Strategy

National Urban Policy

Mission 2045



Mission 1: Realizing a national urban system that is balanced, prosperous, and equitable



Mission 2: Encourage livable, inclusive, and cultured urban



Mission 3: Encouraging advanced and prosperous cities



Mission 4: Encouraging green and resilient cities



Mission 5: Realizing transparent, accountable, intelligent, and integrated urban governance

Implementation Framework

Regulatio

Institutiona

Financing

Smart Approach





SDGs Mandate for the MPWH Infrastructure Development









































Infrastructure Targets 2024 towards Smart and Sustainable Development

National Medium-Term Development Plan





BASIC INFRASTRUCTURE



70% Households have access to Adequate Housing



100%

Households have access to adequate drinking water



90%

Households have access to adequate sanitation



24 Million

Households have access to piped drinking water



65% related to 2010

Traffic accident fatality per 1.000 vehicles ratio



550.000 ha

New irrigation system



50 m³/second

Additional raw water for industry and domestic



60

Multipurpose dam



3 m³/ka

Water use efficiency in rice farming



20 Provinces

with high disaster risk undergo increased resilience



Train accident per 1 million km trip ratio



ECONOMIC



High speed train in Java Island

Jakarta-Semarang & Jakarta-Bandung



Long distance train

Makassar - Parepare



Integrated Major Ports Network:



Upgrade standardized port performance and management



21 New Airports



43 Air Bridge



2.500 km New toll roads



3.000 km

New national roads



97%

Roads in good condition



1.9 hour/100 km

Travel time at island's main connectivity



27%

Interconnected shipping route (loop)





URBAN INFRASTRUCTURE



Urban mass public transport system in **6 Metropolitan Areas**



Households with access to good waste management

> 80% Managed 20% Reduced



DIGITAL INFRASTRUCTURE



95% Service Level Agreement Palapa Ring services



95% Villages

Covered with mobile broadband network



60% Subdistricts Covered with fixed

broadband network



80% Population Covered with digital



3 Start-Ups New unicorn

broadcast





4 Million

New city gas house connection



1.300 kWh

National electricity consumption per capita



3.5 Million Tons

CO₂ emission from power plants reduced

Regional Infrastructure Development Agency



03.

Integrated Infrastructure Planning for Urban and Regional Development



Implementation of Spatial Planning into Development Program:



Integrated Infrastructure Planning for Urban and Regional Development (RPIW)

National Long-Term Development Plan **RPIW Preparation** Rakorbangwil **Ministerial** (RPJPN) **MPWH Regional** · Priority areas and **Coordination Forum** Annual recommendations for **Consultation Forum** National Medium-Term for Regional **Ministerial** PUPR infrastructure Work Infrastructure Development Plan (Konreg) interventions that will **Annual Development** Plan (RPJPN) provide the most benefits **Work Plan** Across stakeholders Equipped with information on the function of Formulate priority Spatial Plan supported areas. area agreements where/location, when/time and MPWH frame, indication of the MPWH Strategic Plan infrastructure amount of output, and input indication of the amount of integrated programs Sectoral Plan Program Other development/ Memorandum* input **MPWH** spatial plans **Governors Coordination Forum** Infrastructure (organized by Bappenas, discussing proposed programs/projects funded by Ministries/Agencies) **RPIW** formulates development programs for regional input input infrastructure development (PUPR sector) in priority areas, align with spatial planning direction Input for preparation of National Mid-Term Development **Technical National Development Planning** Plan, PUPR Ministrial Strategic Plan, and other PUPR **Coordination Forum** Conference planning documents for Development (sharpening of K/L agreements with provincial input government) **Planning** 11 Regional Infrastructure Development Agency



Integrated Infrastructure Planning for Urban and Regional Development (RPIW)



1 INTRODUCTION

Output: background, position in policy, urgency of preparation, content of RPIW, benefits of RPIW, and framework for preparing RPIW

2 POLICY DIRECTIONS

Outputs: synthesis of policy analysis and national and regional strategies related to spatial, sectoral, and priority/strategic areas; long-term goals and targets in MPWH Vision 2030 and the global agenda

3 REGIONAL PROFILE AND POTENTIAL

Output: physical and disaster conditions, demography, economy, socio-culture, and inter-regional interaction in the planning area

4 INFRASTRUCTURE PROFILE & PERFORMANCE

Output: profile and performance of water resources infrastructure, roads and bridges as well as settlement and housing infrastructure, as well as profile and performance of non-PWH infrastructure

5 STRATEGIC PROBLEMS AND ISSUES

Output: potential in the form of comparative and competitive advantages, regional constraints/limitations and problems, as well as regional limitations (environmental carrying capacity and capacity)

6 REGIONAL DEVELOPMENT SCENARIO

Output: growth projection, formulation of regional development vision and strategy as well as regional development scenarios (stages and prioritization)

7 INFRASTRUCTURE REQUIREMENTS ANALYSIS

Output: regional infrastructure gap analysis and infrastructure integration analysis

8 INFRASTRUCTURE DEVELOPMENT ACTION PLAN

Output: annual PUPR infrastructure development action plan along with the division of authority and funding sources

9 MONITORING AND EVALUATION

Output: mechanism to ensure RPIW can be monitored and evaluated annually and every 5 (five) years



Showcase RPIW

Strategic Issues in IKN Surrounding Area



Urbanization

The IKN development attracts many people to live in and around IKN area, especially in Balikpapan, Samarinda, Bontang, Kutai Kartanegara, and Penajam Paser Utara.



Flooded in two RT in Desa Bumi Harapan, part of KIPP IKN in Kecamatan Sepaku, Penajam Paser Utara (5/10/2022). Source: Pusaranmedia, 2022

Natural Hazard

Flood becomes the annual disaster in IKN surround area. In fact, Sepaku (in Penajam Paser Utara), Samarinda, Balikpapan, and Bontang always flooded around 1 meter high every years when rainy season is coming. Furthermore, forest fire and coastal abrasion become another hazardous thing in IKN's hinterland.





Karang Mumus Slum Area. Source: Niaga Asia, 2020

Minimum Service Standards Compliance of Infrastructures

With increase of the population, there are challenges to provide sustainable raw water supplies, access to drinking water, safe sanitation, waste disposal, and livable and resilient housing.

Connectivities

To accommodate transportation between IKN and the area surrounds, **toll roads**, **VVIP airport**, and railways has been planed.



Policy Review

Related to Nusantara Capital City/Ibu Kota Negara (IKN) Development

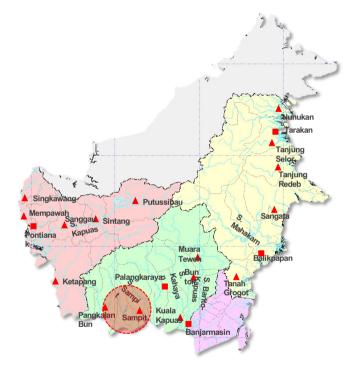


Kalimantan Spatial Planning Objectives

Kalimantan Spatial Plan (Presidential Regulation Number 3 of 2020)

The objectives of the spatial planning of Kalimantan Island are as follows:

- 1. Conservation area
- **2. Energy independence and National energy** storage for electricity
- 3. Mining center: Mineral, Coal, Oil and Natural Gas
- **4. Plantation centers:** Oil Palm, Rubber, Forest Products (eg rattan, resin)
- **5. The border area** of the State as the front porch and gateway with the State of Malaysia with due regard to: Aspects of sovereignty, Defense and security, Community welfare, Environmental sustainability
- 6. Center for the development of water-based national urban areas
- **7. Ecotourism area** based on wet tropical forests and cultural tourism with unique animals and flora: Orangutans, Proboscis Monkeys, Meranti, Orchids, Animals and other endemic plants
- **8. Intermodal transportation network** for: Regional attachment, Economic efficiency, Regional isolation
- 9. Self-sufficiency in food and national food storage



Source:

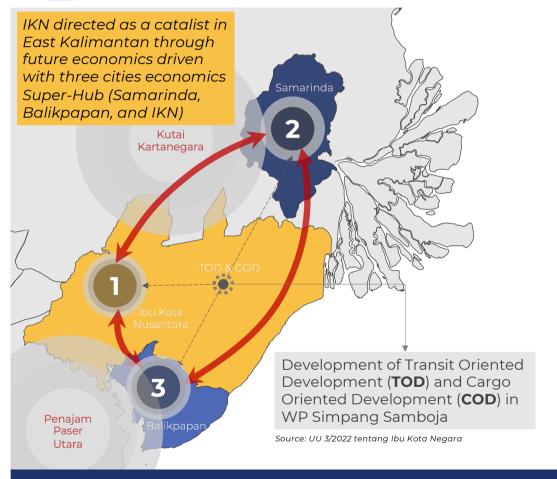
Presidential Regulation No. 3 of 2012 concerning Spatial Plans for Kalimantan Island



Showcase RPIW



PWH Infrastructure Development Scenario of IKN and Its Hinterland





IKN as the Nerve Center:

Core of Government and Green Innovation in Fast Kalimantan



Samarinda as the Heart:

Core of East Kalimantan Heritages and Rejuvenated Energy sector



Balikpapan as the Muscle:

Downstream Oil and Gas and Logistics Node for East Kalimantan

East Kalimantan as a Heart of Borneo: Center of agriculture and nature tourism

Developpent of IKN's Hinterland

Kutai Kartanegara:

As a food barn and the core mining in supply raw materials to downstream industrial activities of IKN

Penajam Paser Utara:

As a center of manufacturing industries which support IKN (located at Buluminung and Kariangau)

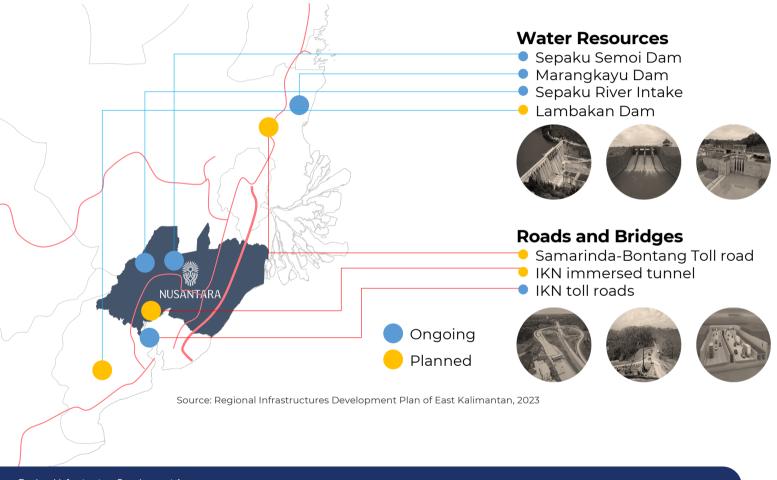
Regional Infrastructure Development Agency



Public Works and Housing Infrastructures Action Plan



Progress and Plan during 2020-2030

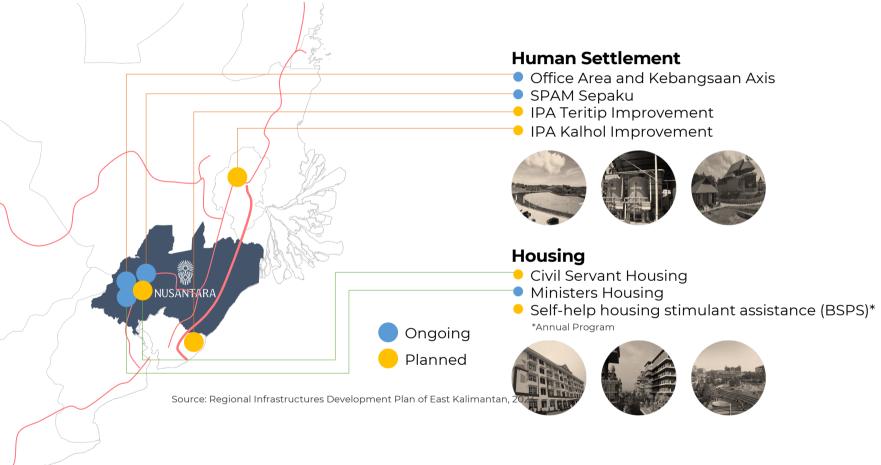




Public Works and Housing Infrastructures Action Plan



Progress and Plan during 2020-2030





04.

National Urban Development Project (NUDP) as Collaboration Platform



NUDP as Platform for Urban Transformation in Indonesia



Indonesia's Vision 2045

Realizing sustainable cities by 2045



- Review National Urban Policy (NUP)
- Formulate City Positioning Study (CPS)
- Develop scenarios and strategies of various cities and their regional characteristics through National Urban Development Strategy (NUDS)
- Develop **instruments** to implement urban scenarios and strategies through **Integrated City Planning (ICP)**
- Develop spatially-informed capital investment planning and budgeting framework through Capital Investment Planning (CIP)

Norm, Standard, Guideline, Manual (NSPM)

Key Performance Indicators (KPI)

Global standard NUA: Liveable, Green and Resilient, Smart



NUDP Promotes Integration of Infrastructure Across Sectors and Stakeholders



National Urban Policy (NUP)

National urban development policy which aims to implement the vision of sustainable cities in 2045 that are Inclusive, Prosperous, Green and Resilient.

Ministry of National Development Planning (Bappenas), other related ministries/ institutions







Capital Investment Planning (CIP)

Urban development budgeting and planning through prioritizing investment

Ministry of Home Affairs, Local governments, Private sector, State-owned enterprises, other related ministries/institutions

National Urban Development Strategy (NUDS)

Urban development scenarios and strategies based on the system of cities and their characteristics as a basis for national urban infrastructure development planning

Ministry of Public Works and Housing, Ministry of National Development Planning (Bappenas), Ministry Agrarian Affairs and Spatial Planning, Local governments, other related ministries/institutions





Integrated City Plan (ICP)

Urban settlement planning and development instruments in accordance with national urban development scenarios and strategies and refer to spatial plan directions

Ministry of Public Works and Housing, Ministry Agrarian Affairs and Spatial Planning, Ministry of Transportation, Ministry of Industry, Ministry of Tourism and Creative Economy, Ministry of Energy and Mineral Resources, Ministry of Communication and Information Technology, Local governments, other related ministries/institutions

TKPPN (Coordination Team of National Urban Development)

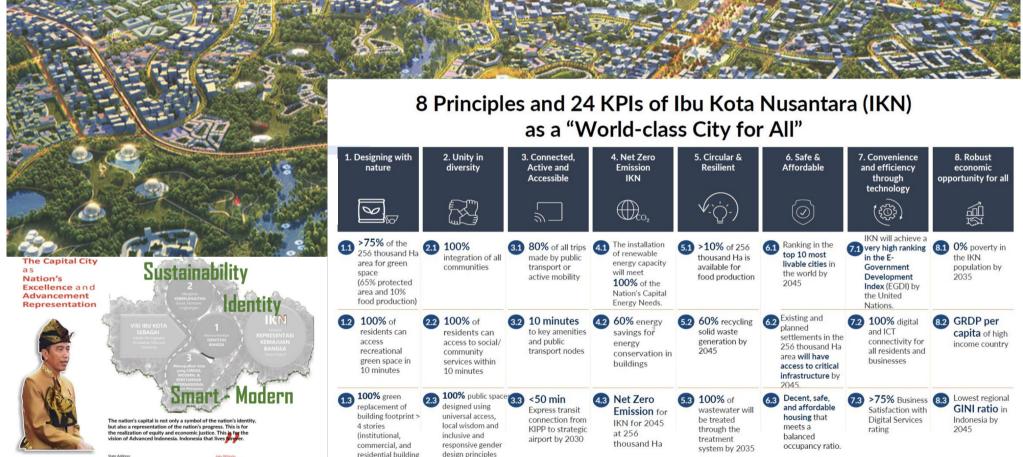
as forum for coordinating the formulation of urban development policies and strategies that involves multi-stakeholders participation



New Paradigm and Standard:









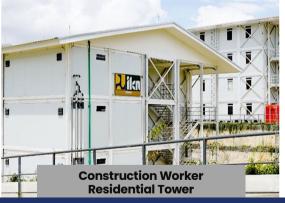
Public Works and Housing Infrastructure in Nusantara Capital City















Thank You





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