"National Spatial Planning Focusing on Economic Infrastructure Development and Management Systems in Indonesia"

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1 Challenges of Spatial Planning in Indonesia from an Economic Perspective

2 National Spatial Plan as a Basis for National Infrastructure Development

3 Digitalization of Spatial Planning and the Acceleration of the Investment Licensing Process



1 Challenges of Spatial Planning in Indonesia from an Economic Perspective

Regional Inequality: Between Western and Eastern Parts of Indonesia, Between Java and Outer Islands, Between Urban and Rural Areas





Rapid Urbanization



Urban Agglomeration Jakarta Metropolitan Area



Souce: Analysis, 2023, using Landsat 2000 & 2023

Transportation Problems: Traffic Congestion, Inadequate Public Transport, Air Pollution Jakarta Metropolitan Area



Inadequate Urban Infrastructure: Solid Waste Management



Source: Statistics Indonesia, 2022

Urban solid waste management is still dominated by open dumping, sanitary landfill, and illegal burning process.

Widespread Location of Leading Commodities





High Electricity Demand





Source: Indonesia Energy Outlook, 2022

- Shifting electricity demand: from household (43.6%) in 2021 to manufacturing (46.6%) and transportation (19.7%) in 2032.
- The process of shifting electricity demand from Java island in 2021 to the Outer Islands in 2032 (reducing regional inequality).

A Country Prone to Disaster Risk



Disaster Types:





2 National Spatial Plan as a Basis for Infrastructure Development

National Infrastructure Network Spatial Plan: Inter-Island and Intra-Island Connection (Connecting and Supporting Growth Centers and Their Hinterlands)







National Urban System

National Transportation Network

4

National Energy

Network



National Telecommunication

Network



Water Resource Infrastructure Network

Territorial Connectivity: Regional Development through Connecting Urban & Growth Centers, and Corridor Based Development





Supporting Urban System through Development of Renewable Energy







Kalimantan Economic Development through Spatial Planning: Optimizing Leading Commodities Processing and Downstreaming Natural Resources



- Development of Nusantara New Capital City and its connection with the City of Samarinda and Balikpapan creating a large interdependence polycentric metropolitan region
- Development of National Border Cities and its connection with oversea and local growth centers, focused on Defense and Security aspects
- Integration between Sustainability, Prosperity and Security aspects
- Border area as the gate to Malaysia and Brunei
- Western coastal cities as the gate to Sumatra
- Eastern coastal cities as the gate to Eastern Part of Indonesia
- Southern coastal cities as the gate to Java



National Border Area Spatial Planning: Integrating Defense and Security with Prosperity and Sustainability Aspects







Developing the Nation through National Strategic Areas (NSA) Spatial Planning





10 Metropolitan Spatial Planning as the Backbone of National Economic Growth





Medan Metropolitan Area (Mebidangro NSA)







3 - Digitalization of Spatial Planning and the Acceleration of the Investment Licensing Process

Digitalization and the Use of Spatial Planning as Planning Permission Instrument







Ref: Data Center of Ministry Agrarian Affairs and Spatial Planning and Ministry of Investment as per July 5, 2023



Ref: RKP 2022, Bappenas, World Bank

Digitalization of Indonesia's Spatial Planning





Digitalization in Spatial Planning: "Real Time" Application in Facilitating Spatial Planning Forum Mechanisms





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