

Mapping priorities for the development of the transportation infrastructure in the provincial capitals of Indonesia

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Abstrak

The infrastructure of the transportation system plays an important and strategic part in the development of a country and serves to support economic progress by enabling the mobility of citizens and the distribution of goods from one region to another. However, communities have unequal access to the system and there are gaps in the regional infrastructure in Indonesia, leading to the requirement for a mapping of all 33 provincial capitals. In this study, we reviewed provisions for road, sea, air, and rail travel. The mapping result is expected to determine the pattern and the prioritization needed for future infrastructure development. A literature review was performed to establish assessment indicators for the mapping. The weighting of each indicator was based on a survey of stakeholders in transportation sectors, which was then analyzed using the Analytical Hierarchy Process. After weighting was completed, the infrastructure of each provincial capital was assessed to determine ratings from the highest to the lowest rank. Jakarta, Medan, Bandung, Surabaya, and Semarang obtained the highest rankings, while Manokwari, Serang, Mamuju, Ternate, and Palangkaraya were at the bottom. This result shows that provincial capitals in western Indonesia had better assessment results than those in the east. Therefore, improvements to the transportation infrastructure of the latter cities should be prioritized.