

Statement of Research Interest

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Research Area and Approach

My primary research interest is in the area of transportation management. Aided by the global presence of the transportation infrastructure, are playing an increasingly important role in the society.

The Indonesian Highway Capacity Manual (IHCM) is the primary reference book for all researchers, academics, planners, engineers, and consultants throughout Indonesia who are engaged in land transportation, but the book was issued in 1997. There is still a need in doing further research to find whether the results of research only an exception of the IHCM formula or there is a need to improve it (Munawar, 2011). Several issues are commonly heard about alleged problems regarding IHCM, including the philosophical approach to understanding traffic performance that is not the same, the results of technical designs that indicate non-conformity with needs, and manuals that are difficult to use. Mismatches of analysis parameters can result in technical design results that may be over/under design (Kusnandar, 2009). According to my experience, when I met and discussed with Traffic Police, Ministry of Transportation (Land Transportation Department), Ministry of Public Works about that book. They said IHCM should be updated. If the book will not be updated immediately, it will be a problem and failures in the future, especially for Indonesia's land transportation. The results of the analysis of the book do not reflect the actual field conditions so that it causes under design or over design exacerbated by the use of private vehicles, which are more significant than public transportation. If the IHCM book expires, it can be imagined that the results of an incorrect analysis in all research or transportation project could lead to an error in taking a transportation recommendation. That way there must be an initiator to update the book.

Future Research Directions

I envision my future research to span across some interrelated sub-areas of behavior, socio-economy, politic of transportation. The unifying theme of the research will be updated IHCM book for efficient and proper of traffic recommendation.

Selected Reference

Munawar, A. (2011) 'Speed and capacity for urban roads, Indonesian experience', *Procedia - Social and Behavioral Sciences*, 16, pp. 382–387. doi: 10.1016/j.sbspro.2011.04.459.

Kusnandar, E. (2009) 'Pengkinian Manual Kapasitas Jalan Indonesia 1997', 26(2), pp. 1–11.