



A Peer Reviewed International Journal of Asian
Academic Research Associates

AARJSH
ASIAN ACADEMIC RESEARCH
JOURNAL OF SOCIAL
SCIENCE & HUMANITIES



ANALYSIS OF ROAD MAINTENANCE PRIORITY WITH MULTI CRITERIA ANALYSIS

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Abstract

Palu City is a very strategic area which is the capital city of Central Sulawesi Province. Given the high population growth and activity mobility, a road with good conditions is needed to support vehicle movements. Due to the rapid growth of traffic there is a function of the road which has decreased due to excessive vehicle volume and damaged road structure conditions. In conditions of constraints on the provision of funds which are limited to one of the businesses pursued by the maintenance of routine road (self-management). And it is likely that not all funds needed for handling all roads can be met at once. The purpose of this study is to obtain / determine the sequence of road self-management work in the city of Palu. The analytical method used in determining priorities uses a multi-criteria analysis approach, where the criteria weight with decision-making assessment inputs from respondents coming from government agencies related to road infrastructure. The criteria used in determining priorities in this study are road conditions, traffic volume, and proposed musrenbang. The criteria for road conditions and the Musrenbang Proposal are the most dominant criteria in priority weighting with a weighting value of 47.50% and 31.20%, followed by the criteria for traffic volume of 21.30%. The final results of the analysis by weighting the criteria and criteria scoring based on operational variables criteria obtained the priority sequence of the top 5 (five) in handling the road segments are the Jalan Mamara, Jalan Thaluakonchi, Jalan Karana, Jalan R.A. Kartini, and Jalan Cempedak.

Keywords:

Multi Criteria Analysis, Road Handling Priorities, Road Conditions

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