

The Influence of Load Factor, Headway, and Travel Time on Total Fleet Requirements and Its Implications for Public Transportation Maintenance Management on Transjakarta.

- **Author(s):** Yosi Pahala ,Suharto Abdul Majid ,Viktor Basa ,Aswanti Setyawati ,Sonya Sidjabat ,Mochamad Arif Hernawan ,Lis Lesmini ,Lira Agusinta
- **Abstract:** The research objective was to determine and analyze the effect of the load factor, headway, travel time on the number of fleets needed and its implications for the maintenance management of TransJakarta public transportation. This research uses a quantitative approach with a questionnaire survey method. The study population was the drivers of the TransJakarta public transportation using a sample proportion of 96 respondents. The data analysis technique uses path analysis. The results showed that there was a direct influence on the load factor, intermediate time, and travel time simultaneously on the demand for the number of fleets, there was a direct influence on the load factor, intermediate time.
- **Keywords:** load factor, TransJakarta, travel