

# Private Transportation Occupancy Affects Towards Whoosh Train, Argo Parahyangan Train, and Private Transportation on Toll Road Mode Choice = Analisa Pengaruh Occupancy Kendaraan Pribadi terhadap Mode Choice Kereta Whoosh, Kereta Argo Parahyangan, dan Kendaraan Pribadi di Jalan Tol

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## Abstrak

Kereta cepat pertama di Indonesia, Kereta Whoosh, telah selesai dikonstruksi pada Oktober 2023. Akibat dari munculnya Kereta Whoosh, mode choice perjalanan Jakarta – Bandung mengalami perubahan. Penelitian ini bertujuan untuk menganalisa efek dari jumlah pelaku perjalanan (okupansi) di dalam kendaraan pribadi terhadap mode choice Kereta Whoosh, Kereta Argo Parahyangan, dan kendaraan pribadi mobil di jalan tol. Perhitungan penelitian ini akan menggunakan regresi multinomial logit untuk memunculkan fungsi utilitas yang kemudian akan digunakan untuk perhitungan probabilitas mode choice. Alat bantu SPSS akan digunakan untuk mengolah data regresi multinomial logit.

.....The first high-speed train in Indonesia, Woosh Train, was completed in October 2023. Surveys and reports were conducted to understand the preference of Jakarta - Bandung travelers regarding the Whoosh Train. The construction of the Whoosh Train raised questions on whether this transportation mode would survive the competition as a transportation mode. As high-speed trains usually have a high maintenance cost, the need of adequate profits is important. One of the ways is by selling the ticket and gain profits through it. Due to the importance of profits, the tickets were set at a higher price. On the other hand, the existing train Kereta Argo Parahyangan for Jakarta - Bandung travel has dominated the market with lower prices. The private transportation car on the other hand has a travel cost-sharing option. Due to all of this, understanding how travel occupancy affects the mode choice can help identify how society reacts to Whoosh Train's appearance. The reaction of the society will be seen using the mode choice probability based on the travel occupancy. The research will use the Multinomial Logistic Regression method to create a model that predicts the mode shift probability.