

# Analisis kemacetan Jakarta di sepanjang Jalan Jenderal Sudirman dengan membandingkan waktu tempuh dan Tomtom Traffic Index = Analysis of Jakarta's traffic congestion along the Jenderal Sudirman Street by the comparison of travel time and Tomtom Traffic Index

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## Abstrak

Kemacetan Jakarta menjadi masalah yang cukup serius dan sampai sekarang tidak ada penyelesaian atas masalah tersebut. Kemacetan di Jakarta sudah menjadi hal yang lumrah terjadi, hampir di setiap jalan arteri besar di kota Jakarta terjadi kemacetan pada jam-jam sibuk. Berdasarkan Tomtom Traffic Index 2019, Jakarta mendapatkan peringkat ke-10 sebagai kota termacet di dunia, dengan nilai Traffic Index sebesar 53%. Tujuan dari penelitian ini adalah untuk mengetahui berapa besar Traffic Index diruas Jalan Arteri, dalam kasus kali ini, Jalan Jenderal Sudirman dipilih sebagai tempat penelitian. Analisis besaran Traffic Index sangat bergantung terhadap waktu tempuh. Waktu tempuh didapatkan dengan melakukan survey langsung di lapangan menggunakan kamera pribadi. Survey dilakukan pada siang hari dan sore hari. Dengan cara merekam lalu lintas kendaraan dari jembatan penyebrangan orang. Berdasarkan Tomtom, nilai Traffic Index Jakarta pada saat hari survey di siang hari sebesar 21% dan pada sore hari sebesar 51%, sedangkan nilai Traffic Index hasil survey pada siang hari sebesar 47,99% dengan waktu tempuh rata-rata sebesar 6 menit 23 detik, terdapat perbedaan sebesar 21%, sedangkan nilai Traffic Index hasil survey pada sore hari sebesar 58.34%, dengan waktu tempuh rata-rata sebesar 6 menit 50 detik, terdapat perbedaan sebesar 7,85%. Berdasarkan hasil tersebut dapat disimpulkan bahwa nilai Traffic Index siang hari dan nilai Traffic Index sore hari pada Jalan Jenderal Sudirman arah Bundaran HI – Senayan, termasuk dalam kategori macet. Dan untuk waktu kemacetan terparah, terjadi pada waktu sore hari.

.....Jakarta's traffic congestion is a serious problem and until now there has been no solution over this matter. Traffic Congestion in Jakarta has become a common thing, almost every major arterial road in the city of Jakarta is jammed during rush hour. Based on the 2019 Tomtom Traffic Index, Jakarta is ranked 10th as the most congested city in the world, with a Traffic Index value of 53%. The purpose of this research is to find out how big the Traffic Index is in the Arterial Road section, in this case, Jalan Jenderal Sudirman was chosen as the research site. Analysis of the amount of the Traffic Index is very dependent on travel time. Travel time is obtained by conducting a direct survey in the field using a personal camera. The survey was conducted in the afternoon and evening. By recording vehicle traffic from pedestrian bridges. Based on Tomtom, the Jakarta Traffic Index value during the survey day in the afternoon was 21% and in the afternoon was 51%, while the Traffic Index value from the survey during the day was 47.99% with an average travel time of 6 minutes 23 seconds. , there is a difference of 21%, while the Traffic Index value of the survey results in the afternoon is 58.34%, with an average travel time of 6 minutes 50 seconds, there is a difference of 7.85%. Based on these results, it can be concluded that the value of the Traffic Index during the day and the value of the Traffic Index in the afternoon on Jalan Jenderal Sudirman in the direction of Bundaran HI – Senayan, are included in the traffic jam category. And for the worst traffic jam, it happened in the afternoon.