

Analisis model daya dukung sistem transportasi yang berkelanjutan di DKI Jakarta = Sustainable carrying capacity of transportation model (mode share effect on road capacity in Jakarta)

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Abstrak

[ABSTRAK

Kendaraan beroperasi di DKI Jakarta yang semakin didominasi oleh kendaraan pribadi menyebabkan pertumbuhan aktivitas kendaraan telah melampaui kapasitas jalan yang tersedia, padahal kapasitas lingkungan tersebut tidak boleh dilampaui untuk menjaga sistem lingkungan yang mendukungnya tetap berkelanjutan. Penelitian ini disusun untuk menganalisis hubungan antara pertumbuhan ekonomi dan sistem transportasi serta dampaknya pada lingkungan hidup, dengan membangun model sistem transportasi yang berkelanjutan berdasarkan teori mengenai sustainable development, sistem transportasi dan system dynamics. Berdasarkan hasil pengolahan dan analisis data, maka dapat ditarik kesimpulan secara umum bahwa sistem transportasi yang ditandai oleh aktivitas dan emisi kendaraan bermotor tidak mampan di masa yang akan datang yang ditandai dari kapasitas jalan yang hampir mencapai batas maksimumnya. Skenario kebijakan yang dibangun di dalam penelitian ini memperlihatkan bahwa peningkatan peran transportasi publik sebesar 10% dapat menurunkan aktivitas kendaraan sebesar 7,14%.

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ABSTRACT

Active vehicle operated in DKI Jakarta that has been dominated by private vehicle is causing vehicle activity growth exceeds available road capacity, which is vital for keeping the environment well functioned. This research was conducted for analyzing relationship between economic growth and transportation system and its impact on environment particularly road capacity and emission; achieved by building transportation system model using system dynamics. Based on result of research, it is concluded that Jakarta's current system transportation is not sustained which is indicated by vehicle activity and emission reached its environment capacity. This research proved that increasing in public transportation role by 10% decrease vehicle activity by 7,14%., Active vehicle operated in DKI Jakarta that has been dominated by private vehicle is causing vehicle activity growth exceeds available road capacity, which is vital for keeping the environment well functioned. This research was conducted for analyzing relationship between economic growth and transportation system and its impact on environment particularly road capacity and emission; achieved by building transportation system model using system dynamics. Based on result of research, it is concluded that Jakarta's current system transportation is not sustained which is indicated by vehicle activity and emission reached its environment capacity. This research proved that increasing in public transportation role by 10% decrease vehicle activity by 7,14%.]