Analisis kinerja lalu lintas akibat perubahan tata guna lahan : studi kasus pembangunan Mall Of Serang = Analysis of traffic performance due to of land use development : case studies of the construction of Mall of Serang

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Abstrak

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Kota Serang terletak di tengah provinsi Banten, yang merupakan pintu gerbang pergerakan manusia, barang, dan jasa antar regional yang sangat strategis sehingga akan dibangun pusat perbelanjaan dan bisnis. Rencana pembangunan Mall of Serang ini akan mempengaruhi perubahan tata guna lahan yang ada di daerah sekitarnya. Tentunya ini juga akan berdampak pada perubahan transportasi di wilayah Kota Serang khususnya daerah sekitar pembangunan Mall of Serang.

Dengan memperhatikan segala aspek rencana pembangunan Mall of Serang perlu dilakukan analisis kinerja lalu lintas. Analisis menggunakan perencanaan empat model transportasi yaitu bangkitan perjalanan yang menghasilkan model hubungan antara parameter tata guna lahan dengan jumlah perjalanan yang menuju ke suatu zona atau meninggalkan suatu zona. Analisis model bangkitan perjalanan menggunakan metode ITE dengan berdasarkan tipe tata guna lahan dimana luas lahan mall pembanding, yang nantinya sebagai acuan untuk memprediksikan pengunjung Mall of Serang. Model distribusi perjalanan untuk mendapatkan data arus lalu lintas dari zona asal ke zona tujuan dalam suatu lingkup studi. Yang menjadi objek adalah 3 jenis kendaraan yaitu kendaraan ringan (LV), kendaraan berat (HV), dan Sepeda motor (MC).

Dari hasil pengamatan yang dilakukan sekitar Mall of Serang didapat jumlah pengunjung Mall of Serang dengan mengestimasi luas lahan dari suatu daerah studi yaitu dengan mengetahui luas bangunan mall pembanding adalah sebesar 241 smp, yang terdiri dari angkutan umum, sepeda motor dan mobil pribadi. Memprediksikan kondisi yang akan datang mengasumsikan nilai tingkat pertumbuhan setiap zona. Dengan nilai tingkat pertumbuhan sebesar 1.022. Dengan metode seragam, semua matriks asal-tujuan dikalikan dengan factor 1.022 untuk mendapat matriks asal-tujuan pada masa mendatang.
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ABSTRACT
Serang town located in the middle of province Banten, Serang is a gate of people movement, thing, and service inter regional that very strategic so it will build center of shopping and bussines. Plan of contruction Mall of Serang will influence use areas system in surroundings region. Certainly it's also impact to

transportation in Serang town especially in araound contraction Mall of Serang.

With look all of aspect the plan of contruction Mall os Serang need traffic perfomance analysis. The analysis using four models of transport planning is trip generation resulting model of the correlation between land use parameters with number of trips towards to a zone or leaving to a zone. Analysis model trip generation using methode ITE by type land use where the mall area as a reference, and it use to give a prediction of visitor Mall of Serang. Model trip distribution to get the data of traffic flow from origin zone to destination zone within a scope study. The object are the three types of the vehicle specifically light vehicle, heavy vehicle, and motorcycle.

From the result of observations around the Mall of Serang can be obtained the visitors Mall of Serang with in estimating land of the studi area by knowing the comprasion another mall area is 241 smp, consist of public tranport, motorcycle, and private car. To predict the condition of the future we can assuming the value of the zones growth rate.With get the value of growth is 1.022. With the same methode, all of matrix origin-destination multiplied by factor 1.022 to get the matrix origin-destination of the future.;Serang town located in the middle of province Banten, Serang is a gate of people
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