

The Importance of the Main Transportation Axes in the Reduction of Traffic Density in the Urban: The Example of Osmaniye Province

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SUMMARY

The increase in the national income in parallel with the economic development of Turkey has enabled the purchasing power of people to increase. This has particularly led to a significant increase in the number of vehicles. This increase in the number of vehicles has created traffic density in all cities. Today, the main problem of many cities in our country is based on problems created by the traffic density. There are cities that are prepared for this issue as well as local governments that can not provide sufficient development. Osmaniye is one of our new provinces growing with rapid population growth and dense migration. Due to the fact that Osmaniye is at the crossroads on many road routes, depending on its geographical location, it carries the burden of both intercity and international traffic. In addition, Osmaniye province settlement area is an important point of intersection in terms of railway route.

In this study, the traffic axes within the province have been evaluated and new transportation axes have been emphasized considering railway transit and international road route. For this, the data of the boulevards and streets in the existing development plan, the D400 interstate highway passing through the city center, the distribution of large public institutions and business centers affecting population density, the routes of the collective taxi and the neighborhood population were obtained. All the criteria considered in the studies were evaluated in Netcad and Arcgis programs and analyzed. According to the results obtained;

- Improvement of existing axes and costs have been calculated,
- As alternative, new transport axis proposals have been developed and necessary cost analyzes have been

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made,

- Being also on the agenda of the municipal administration now, the construction of the underpass on the D400 highway, which passes through the city center, has been examined and suggestions have been made,
- Regulations have been searched for more efficient use of existing belt highways,
- The solutions are suggested for side effects that interfere with traffic flow (marketplaces, meetings such as weddings and engagement ceremonies, mongers and so on).

As a result, it has been determined that the main transportation axes in Osmaniye city are inadequate, many dense working areas in the city are located in the west of the city (such as university, small industrial site, governorship complex, state hospital, OIR), the traffic in the east-west direction is extremely intense especially at the beginning and end of the work hours. It is thought that the existing roads and boulevards in the east-west direction should be expanded and the upper and lower passageways, which provide passage without light, should be constructed at the important intersection points. In addition, it is necessary to increase the number of bridges on the appropriate locations over Karacay stream extending from south-east to south-west of the city. The obstruction of traffic flow should be avoided by moving the marketplaces established by closing the streets to neighborhood markets.

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