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MODELLING AND ANALYSIS PUBLIC TRANSPORT ON URBAN ZONE OF PRISHTINA AS WELL AS MEASURES FOR ITS IMPROVEMENT

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Abstract

Prishtina city as a capital of Kosovo, in the recent decade has faced demographic, social-economic, infrastructural development as well as mono centric urban development of the city which has an impact in increasing distance disproportion of peripheral settlements towards the city centre having also an impact in increase of passengers transport demand. As the result of this increase as well as movement of citizens of other regions of Kosovo towards the capital of Kosovo we have road network traffic congestion which mainly appears at the central ring road at peak hours. The main aim of this study relies on the role and significance of public transport for mobility of passengers. The other aim is that through modelling using PTV VISUM software we will analyse current situation and we will get the proposal for future public transport network in identification of constrains and problems. The methodology of this research starts with matrix of trips origin-destination at peak hours by counting passengers entering and exiting the public transport network. The next step is to process data and continue with modelling of existing situation and the proposed one by comparing two variants taking into account some indicators. The results show clearly that the proposed variant is much better than the existing one referring the triangle municipality-users-transport operators. The study is concluded by issuing some strategies and recommendations for improvement and establishing future sufficient public transport in Prishtina urban zone.

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Public Transport, Modeling, Urban Zone, PTV Vision Visum

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