CONCEPT FORMULATING TO MAKING EFFECTIVE URBAN COMPACTNESS IN SURABAYA CITY

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Abstract
Urban sprawl phenomenon has occurred and resulted in various negative impacts in Surabaya city. In order to solve this problem, this research has an objective to formulate the concept of Surabaya city’s urban planning which can reduce the high rate of mobilization as the impact of urban sprawl phenomenon.

The analysis methods which are used in this research are: the combination analysis of overlay point Arc-GIS, cluster analysis, and multi dimensional scaling (MDS) to identify the urban compactness level; descriptive-qualitative and comparative to identify the effect of urban compactness in travel behavior of the society; and triangulation analysis to formulate the concept which can make the urban compactness becomes effective in Surabaya city.

Based on the result of the analysis, in order to make the urban compactness becomes effective in Simokerto district as the representation of compact form area, keeping the level of urban compactness, especially in density aspect, transit oriented development, public transport priority, and cordon line concepts are formulated. Meanwhile for Tandes and Dukuh Pakis as the representation of areas which have the medium and low urban compactness level, increasing the level of urban compactness, transit oriented development, public transport priority, and cordon line concepts are formulated to increase its effectiveness of urban compactness.

Keywords: compact city, urban compactness, urban sprawl.