

Strategic Planning and Space Management of Urban Areas Using Spatial Analyses

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Abstract

The development of sustainable transportation in cities is associated with several measures with the common goal of reducing the number of trips made by non-ecological means of transportation. An activity that fits into sustainable mobility plans is developing an area in line with transit-oriented development. This involves developing strategic plans for the city, which manage the space to realize most of the needs by walking. The indicated measure is in line with the idea of 15-minute cities. Complex spatial analysis methods are often lacking in the cities' Sustainable Urban Mobility Plans strategy documents. Open geolocated data allows for efficient information management, enabling strategic planning using spatial analyses. The article identifies open data and spatial analyses to manage information to achieve sustainable mobility. The identification of input data and spatial analyses of the travel planning system implemented in the SUMODO project make it possible to improve the quality of travel conditions and management of the public transport system. As part of the international project "SUMODO" (Spain, Poland, Hungary) different types of POIs accessibility will be evaluated. Isochrone maps for various transport modes and origin and destination points will be created to show how many services can be reached or how many citizens can be served.

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