

Application of AHP Model for Decision Making in Urban Mobility System

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Abstract—Around 80 per cent of European Union (EU) citizens live in urban areas. It's critical that these cities provide to European citizen a high-quality door to door mobility and on the other side have the positive effects, on the environment and human health. When people decide how to travel, they often decide according to their quality expectation of different transport modes. This paper presents multicriteria decision making framework for evaluation of quality expectation in urban mobility system. The aim is to create and test an analytical hierarchy process method for the measurement of quality expectation in urban mobility system compatible with the requirements of the EN 13816 and consequently which mode of transport is the best alternative in the case city of Maribor. In overall this paper provides an alternative approach for evaluation of quality expectations of urban mobility system and for facilitation of a set of performance criteria.

Keywords—AHP method, decision making, urban mobility system, quality expectation, passenger transport.

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