Identification of Major Problems Contributing to Urban Sustainability Performance. Case Study Surabaya, Indonesia

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ABSTRACT

According to the Asian Development Bank (ADB) in 2009 sustainable development is not possible without sustainable urbanization. Sustainable development has been defined as development that "meets the needs of the present without compromising the ability of future generations to meet their own needs". Decision making for sustainable development, particularly in the field of planning or design, requires a framework within which to structure the problem. The proposed framework aims at guiding designers and planners, official public developers and decision makers through the process of understanding and evaluating sustainable development in planning and design on the basis of a new holistic structure that acts as a prompt and a checklist (Lombardi, P, Brandon, S, P, 2005). Sustainable urbanization is a significant component and the key to sustainable growth and its strategies should be "green" with a strong emphasis on energy efficiency, public transport, and sound urban planning and construction (Gerhaeusser, K, 2009). Furthermore urban sustainability indicators are important instruments for assessing the performance of cities, including environmental, economic and social indicators (Mega, V, et al, J,1998). Urban sustainability Indicators and their appropriative selection undoubtedly play an important role in successfully attaining urban sustainability. It is appreciated that the use of indicators for assessing urban sustainability performance is an important tool and has been widely adopted (Shen, L-Y, et, al., 2006).

Surabaya, the second biggest city in Indonesia (340 km2, > 3 Mill ) has developed as the big city lacking sufficient green open spaces quantity and has been changing landuse in the last ten years. The aim of this study is to explore how important is the issue of sustainable urbanization in cities worldwide and therefore a comprehensive review of the existing best studies in urban sustainability will be made to summarize the factors affecting urbanization in order to compose general indicators of urban sustainability performance. A comprehensive analysis of the current problems facing the city Surabaya (as a case study) will show the specific indicators and identify major problems contributing its urban sustainability through the use of experts choice method.

Keywords: expert choice, major problems, sustainable urbanization, surabaya city, urban sustainability performance