



SUSTAINABILITY EVALUATION OF AN URBAN RESIDENTIAL SETTLEMENT

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Abstract

This paper describes the development of a simulation model to assess and forecast (evaluate) sustainability of an urban residential settlement. The model-concept considers the community's attitude and living environment as determinants of sustainability. It is based on an integrated approach involving studies in human settlements, living environment, and community attitude.

This paper describes the implementation of the model simulation system. The model has been successfully adopted to evaluate the sustainability of an urban residential settlement in South India, based on its water-usage and sanitation practices. The simulation adopts a hybrid system integrating Cross Impact Analysis and Geographic Information System.

Key words: attitude, Cross Impact Analysis, living environment, sustainability, urban residential settlement, water and sanitation,

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