

A Study of Multilevel Causal Model for Land Use Change

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Abstract

Land resource is restricted and scarce, in order to avoid developing in inadequate manner, the evolutionary process of the land use change and the natural and artificial reasons should be considered to plan for the land use plan.

The theoretical system and analytic frameworks will complete at first through documents studies, theories analysis and related references comparison. The analytic frameworks including three components, the first one is to master the key factors of land use change, the second one is to approach the casual relationships between the factors among land use change, and consequently is to establish the integrated multilevel analysis for urban land use change to interpret local land use change, which applied the concept of multilevel and through the land use change overall interpret model and individual spatial choice model. We hope it would be more complete simulation and forecast of land use change through this study, and helpful to the relevant studies.

1. Introduction

Land use change has been recognized as interpretations and results of interactions between natural environment and human activities in an area, also as the performances of humans using resources. Various types, intensities and distributions of land use have been elucidated and reflected intensities and distributions of human activities in the world. Land use is also a critical factor mediating between natural environment, socioeconomic, political, and cultural behavior, and social/individual values. In other words, the spatial changes of human activities are as drivers of land use change.

Land resource is restricted and scarce, in order to avoid developing in inadequate manner, the evolutionary process of the land-use change and the natural and artificial reasons should be considered to plan for the land-use plan. Meanwhile, land-use is the outcomes of the interaction between natural environment and human actions. The distributions of land-use reflect the decision behaviors and activity types on the inhabitation. The changes of land-use are affected by the results of the interaction of many factors, such as policies, economics, society, culture, natural environment and human behaviors. Consequently, to get over on the factors which affect the changes of land-use is facilitate to the interpretation of land-use decisions, at the same time, is conducive to know well about the attitudes of land-use decision makers. In other words, it is contributory to grasp the latent