

# Interpreting Non-Conforming Land Use Plan Implementation from the Perspective of Individual' Decision-Making Behavior

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**Key words:** Land management; Spatial planning

## SUMMARY

It is one of the important missions for planning managers and relevant scholars to explore the influencing mechanism and improvement path of the implementation effectiveness of planning. A large number of spatial planning practice results show that, with the diversification of stakeholders in the process of planning implementation, the effectiveness of planning implementation depends on guidance and control ability of the planning to subject's land use decisions to a large extent. Therefore, in order to improve the effectiveness of planning implementation and reveal the influencing mechanism of planning implementation effectiveness, the research perspective of planning implementation evaluation should be changed from macro to micro, and the research object should also be changed from single subject to multiple subjects. Due to the change of research perspective and object, it is necessary to explore an analysis framework for the decision-making behavior of planning implementation.

The empirical study results showed that location characteristics, subject characteristics and project characteristics all significantly affect the subject decision-making behavior of planning implementation. The subject of planning implementation is bounded rational, and their planning implementation preference is not stable and invariable. Moreover, the project characteristic is a strong intervention signal of planning implementation, which will affect the behavior of the subject during the planning implementation. It is found that there was an interaction effect between subject characteristics and project characteristics. If the land use subject type is the "land development subject" and the project characteristic is the "key project", the probability of high validity of planning implementation would be significantly reduced.

In addition, the empirical study also found that the spatial distribution and agglomeration characteristics of the planning implementation behaviors of diverse subjects were also different,

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which showed obvious spatial differentiation patterns. Moreover, in the process of planning implementation, there was a time transitivity phenomenon, and the current land use decision-making behavior will influence the decision-making behavior in the next time point. In addition, the planning implementation behavior also has a spatial transitivity phenomenon, and the adjacent land use decision-making behaviors will significantly affect the land use decision-making behavior of the target subject.

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