A Study on Establishing Goal Preferences when Developing Manuals for Rural Village Planning

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A crucial problem in multi-dimensional rural planning is the issue of trade-offs in resource allocation in the face of limited public finances.

This study develops a "Manualized System Planning Method for Rural Villages." This system is based on J. Buchanan's theory of fiscal equity in public investment. It shows that an optimal choice for investments is realized when regional preferences are accounted for. This system's planning tools are the "Nutzwer-Analyse (NWA)," which was developed in Germany; the DEMATEL method, which is a kind of structural model based on graph theory; and the AHP method, which is improved by incorporating Operations Research. Simultaneously, an Economic Land Classification is done in the study area.

This study verified the effectiveness of our system-planning method for prioritizing multi-dimensional goals by utilizing regional preferences. As a result, this system-planning method is more transparent than other methods of decision-making, which makes it easier to control planning.