Implementation Evaluation of Beijing Urban Master Plan Based On Subway Transit Smart Card Data

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Abstract: Big data enables us to get the valuable products and service or deep insights and finally form the reform force by analyzing the massive data in an unprecedented manner. In essence, urban-rural planning is a decision process, which need to mine rich information in big data so as to observe city development conditions and serve for plan formulation, decision making and implementation evaluation. Up to now, few researches on implementation evaluation of urban master plan by using big data have been carried out. This paper presents how to conduct objective evaluation on implementation condition of Beijing urban master plan (2004 to 2020) by processing and analyzing the Beijing subway smart card data. The theoretical thinking and research approaches are introduced. The research conducts implementation evaluation of Beijing master plan in both city space layout, coordinated development and city development pattern. Finally, the evaluation conclusions and discussions about the key role of big data used in plan implementation evaluation prove the valuable support capability of big data.