



Sustainability is important concept of future urban planning and design. Visualization of past, present and future urban area by using spatial data related to natural disaster, crime, environmental conservation, regional revitalization is useful to discuss urban planning. GIS is powerful tool for urban planner. The purpose of this study is to propose the planning method for sustainable urban area using GIS.

(1) Planning for environmental consideration and disaster mitigation

--->Evaluation of land use sustainability

--->Urban growth simulation considering disaster mitigation and environmental conservation

(2) Planning support system for historical built-up area

--->3D model of historical built-up area

--->Consensus building for urban planning and design considering disaster mitigation and community revitalization using GIS

Keywords: Urban planning and design, GIS, Land use planning

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