

A STUDY ON THE VISION OF CITY PLANNING SYSTEM FOR RENOVATING RESIDENTIAL ENVIRONMENT IN URBANIZED AREAS

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[S Y N O P S I S]

To promote the theoretical development for new visions for city planning in the 21st century, comprehensive questionnaire survey was conducted to experts by asking the development of city planning in the 20th century and prospects for the 21st century. Main accomplishments of city planning in Japan during the last century are establishment of regulation system and development of urban infrastructure. Many experts pointed out the defect of uniform and development-oriented city planning, and the lack of conceptual base on public ethics and comprehensive treatment. Main accomplishments of city planning in the world are social changes such as autonomy, participation and technological development, and development of social structure based on the use of cars. Three important contribution in planning are identified as concept of garden city, regulational device of zoning, and urban development in the form of new towns. Main defects, on the other hand, are enforcement of modernism, lack of sustainability and economic and social gap, which appear to become important issues in Japan in the future. City planning system in the 21st century should devise sophisticated autonomy and participation system making much of environment and revitalization of cities. Researches in the field of city planning should contribute to set theoretical foundation for these changes.

Tools for city planning are reviewed and studied. The tools may include those for presentation, communication, analysis, support system, regulation method, consensus building as well as conceptual tools that can be applied in the actual planning practice. New information technology related tools for planning should efficiently devise user-friendly and intuitive treatment of three- and four-dimensional data, handling of abstract concepts, automated optimization of spatial modeling, object-oriented planning support system and comprehensive means for planning in the 21st century. A new planning model should be developed to meet the current needs, so that collective effects of spatial setting are efficiently controlled.