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Rethinking Design and Urban Planning for the Cities of the Future

Thomas L. Saaty, Pierfrancesco De Paola

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Author ORCID	0000-0002-1304-7663
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Abstract

Growth of urban areas and abandonment of rural areas are phenomena that increase quickly. The main consequences of urbanization are pollution, consumption of resources and energy, waste dumps, and junk yards. These aspects require a better planning and design of European urban metropolitan areas, considering benefits, opportunities, costs and risks (B.O.C.R.), derivable by urban transformations and available resources. The paper consists of five parts. The first part contains some reflections on consequences of urban sprawl. In the second part, some possible kinds of cities are discussed (sustainable city, smart city, and compact city). The third part briefly describes a multicriteria decision-making approach known as the analytic hierarchy process to deal with complex decisions. In the fourth part, alternative city models are analyzed (compact city, elevated city, green house city, and water city). Finally, in the fifth part, the criteria selected for the planning and design of the alternative city models are used for the prioritization of some European cities.

Keywords: urban planning, urban design, future cities, urban sprawl, sustainable cities, smart cities, compact

Full text

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