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# Measuring and evaluating spatial feasibility of urban services (Case study: nine areas Shiraz city)

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#### **Extended abstract**

Objective: In recent years, urban plans gradually adopted a strategic nature, and urban planning was directed towards spatial planning on one hand and pragmatic planning on the other. Based on systematic methods, these developments concentrated on comprehensive analysis of "problem" rather than comprehensive recognition of the "subject". The reason is that it has been both "practically" and "theoretically" found that solving a problem, first of all, requires proper formulation of the problem. In many developed countries, fundamental modifications were made in the basics of urban plans and their overall tendency was towards more popularity and adaptation to civil society demands. Although these urban development plans, particularly the comprehensive plans, were prepared by spending much time and money and had significant effects on dividing the land uses and observing construction terms and conditions, not all targets were realised for some reason. One of the cities of Iran, which deals with problems of land use distribution, is Shiraz. The main purpose of this research is to analyse the factors affecting the realisability of service land uses of Shiraz and suggest optimum, strategic solutions for improving its condition.

**Methodology:** The present research is an applied study in terms of purpose and descriptive-analytical in terms of method. Statistical population includes service land uses of Shiraz regions including parks and green spaces as well as academic, sports, sanitary, religious, and cultural land uses. In order to evaluate the mentioned uses, per capita of the status quo and per capita of the suggested second comprehensive plan (1989) were compared with approved per capita of Supreme Council of Urban Planning and Architecture and detailed plan review. Williamson scattering coefficient was used to measure the spatial balance process of service land uses of Shiraz regions. To achieve the research objectives, library and field methods were applied in Excel and Arc GIS.

**Results:** The present research aims at investigating the realisability of service land uses of Shiraz in the comprehensive plan. Spatial balance process of service land uses of Shiraz regions was measured by studying the statistical population of service land uses of Shiraz regions including parks and green spaces as well as academic, sports, sanitary, religious, and cultural land uses and comparing per capita of the status quo and per capita of the suggested second comprehensive plan (1989) with approved per capita of Supreme Council of Urban Planning and Architecture and detailed plan review. Regions were ranked by their realisability of per capita of service land uses, compared to the per capita of the suggested comprehensive plan (1989). The results show that the per capita of service land uses of Shiraz comprehensive plan has not been realised after more than two decades.

Shiraz regions can be ranked by realisability of comprehensive plan as follows:

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### 1<7<5<8<3<9<6<2<4

Accordingly, regions 6, 2 and 4 had the highest and regions 1, 7 and 5 had the lowest environmental sustainability. This shows inappropriate and unfair spatial scattering of service land uses in Shiraz regions. Land use analysis with indicators of capacity and social justice indicates quantitative and qualitative problems in land uses of nine regions of Shiraz.

**Conclusions:** Regarding the realisability of comprehensive plans, evaluation process as management did not have a proper place in the planning system. Therefore, their strengths and weaknesses must be first identified scientifically, then the results be established in the planning system. If plan realisability is evaluated at the stage of plan implementation, then its weaknesses will be identified and removed at the same time. Moreover, urban development plans must be considered physically and perform development policy-making and physical changes of cities quite locally.

**Keywords**: Feasibility, Service Uses, Entropy Method, Weighting Model, Shiraz City.

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## **References:**

- Alavitabar, A (2003). *Pattern of Citizen Participation in Urban Affairs*. Vol.3, Publications of Tehran Municipalities Organization, 184p. (*In Persian*)
- Alikhani, M., Manizeh, A (2013). Envelopes, parks, open spaces of urban spaces and green spaces are key factors in creating a sustainable city. First National Conference on Geography, Urban Development and Sustainable Development, March.). (In Persian)
- Armanshahr Consulting Engineers (2009). *Detailed studies of Zanjan city*. Zanjan Housing and Urban Development Publication. (*In Persian*)
- BahramSoltani, C (2011). *Basics of Urban Green Space Architecture*. First publishing, Ministry of Housing and Urban Development Publications and Secretariat of the Supreme Council of Urban and Architecture of Iran. (*In Persian*).
- Behbahani, H (1994). *Evaluation from Tehran parks to pattern determination*. Journal of Green Space Science and Education, No.8. (*In Persian*)
- Behzad, D (2005). *Theoretical analysis of social capital in the prevention of social harm*. Proceedings of the First Symposium on Social Capital and Social Welfare, First Edition, University of Social Welfare and Rehabilitation Sciences. (*In Persian*)
- Borkowski, N (2015). *Organizational behavior in health care*. Jones & Bartlett Publishers, Sudbury: Masachusetts. (*In English*)
- Buzan, B (1999). *People, governments and panic*. Translator: Researchers at Institute of Strategic Studies, Tehran: Institute of Strategic Studies, 432p. (*In Persian*)
- Dehghan, A., Ghaffari, G (2005). *Explaining the socio-cultural participation of Tehran University of Medical Sciences students*. Iranian Journal of Sociology, Vol.6, No1, pp. 67-98. (*In Persian*)

- Ghadrjani, R., Hajian Zeidi, M (2016). *Park Envelopes and their Design and Terms in Urban Spaces*. Second Conference on Urban Development, Management and Urban Development, pp.34-41. (*In Persian*)
- Gharamlaki, A.F (2009). *Ethics in NGOs. Publication: Presidency*, Center for Women and Family Affairs, Tehran, p.116. (*In Persian*)
- Hossein A.H (2009). A Transition on the History of Zanjan. First Edition, Danesh Publications, 96p. (In Persian)
- Hosseini, F (2008). *Investigating and providing effective physical-functional indicators to enhance public safety*. Thesis Supervisor: Tarbiat Modares University Dr Mohammad Reza Bamanian. (*In Persian*)
- Hosseini, S.A (2001). *Methods of Citizen Participation in Urban Development Plans*. Rasht. PhD Thesis Geography and Urban Planning, Tarbiat Modares University, Supervisor: Shadravan Hossein Shokoui. (*In Persian*)
- Irannejan Parizi, M.H., Jamilian, M (2011). *Garden and urban green space*. Yazd University Press, 416 p. (*In Persian*)
- Jasprizza, Roger.(2000). *Small Spaces Make a Difference*. Landscape Australia, Vol.21, No.4 (84), pp.292-294. (*In English*)
- Kalhor, S (2009). *Social Security Strategies*. Retrieved from Andisheh Club Access site in Morgheh, Mehr, Tehran, Young Thought Center. (*In Persian*)
- Khakpour, B, Rafiei, H. Salehi Fard.M (2010), Investigation of Urban Management Performance in Expanding Public Green Space (Park) Using TOPSIS Method. Journal of Geography and Regional Development, Spring and Summer, No.14, pp.2-27. (In Persian)
- Khaldbarin, A., Olia, A., Jafari, A (2009). *Green Space Design from a Citizen's Viewpoint.* Journal of Forest and Rangeland, No.84, pp.4-45. (*In Persian*)
- Madani Pour, A (2002). *Tehran; the emergence of a metropolis*. Urban Planning and Publications. (*In Persian*)
- Maheri, A (2007). *Investigating the Role of NGOs in Building Social Trust (East Azerbaijan)*. M.Sc. in Research, Islamic Azad University, Science Research Branch, Tehran. (*In Persian*)
- Marasusi, N., Rashvand, S (2017). *Analysis of Zanjan Urban Landscape Periodic Changes from 2006 to 2011 and Presentation of Optimal Location Model*. Two Urban Ecology Research Quarterly, Vol.8, No.16, pp.101-118. (*In Persian*)
- Marcus, Clare Cooper and Carolyn Francis (1998). *People Places*. Edition: John Wiley and Sons Inc, New York. (*In English*)
- Matin, C; Shirley, P (2007). *Green Urban Design Dimensions*. Second Edition, Tehran: Urban Planning and Processing Company, 464p. (*In Persian*)
- Minai, M.A (2007). *Introducing Social Security Studies Comprehensive Plan. Researchers' Monthly*. No. 1-2, Tehran: Institute for Cultural Studies and Humanities 10. (*In Persian*)

- Moghimi, S.M (2011). *Entrepreneurship in Community Institutions*. Research in Iranian Non-Governmental Organizations, Third Edition, University of Tehran Press, 415p. (*In Persian*)
- Mohammadi, J., Mohammadi Deh Cheshmeh, M (2007). Qualitative evaluation of the role of green spaces and optimizing citizens' use of it in Shahrekord. Journal of Environmental Studies, Vol.33, No.44. (In Persian)
- Motahari, M (2004). *Collection of Master Martyr Motahari's Works*. Tehran, Sadra Publications. (*In Persian*)
- Niebuhr Reinhold (1932). Moral Man and Immoral Socity. New York. (In English)
- Pakzad, J (2002). *The role of urban spaces in social security*. Municipalities Publications, Year Four, No. Forty-One. (*In Persian*)
- Rafiiyan, M., Hhodayi, Z (2009). *Investigating effective indicators and criteria on citizens' satisfaction with urban public spaces*. Landscape Quarterly, Vol.18, No.53, pp.227-248. (*In Persian*)
- RafiPour, F (1993). *Evaluation of Rural Tendency towards Construction Jihad and its Affecting Factors*, Research in Three Provinces: Isfahan, Fars and Khorasan. Ministry of Construction Jihad, Rural Research Center, Tehran. (*In Persian*)
- Rahnama, M.R., Mehrourz, A., Abbaszadeh, G (2013). *Factors Analysis of Participatory Management in Mashhad*. Urban and Regional Studies and Research Quarterly, Vol.5, No.19, pp.2-4. (*In Persian*)
- Rostam Khani, P., Leghaei, H (2004). *Principles of green space design in residential environments*. Second Edition, Publication: Building and Housing Research Center, 168p. (*In Persian*)
- Taheri, F (2010). Formulation of sport-oriented urban criteria and criteria. Thesis for Master of Planning, Islamic Azad University, Qazvin Branch. (In Persian)
- Tissot, B.N (2005). integral marene ecology: communit-based fishevy management in Hawaii. Journal of general evolution, No.6, pp.79-96. (In English)
- Zanjan Municipality (2006-2016). Statistics of Zanjan Municipality, Population Season. (In Persian)