

Analyzing essential requirements of management process in city smartization (Case study: Kerman city)

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Extended Abstract

Objective: Although a lot of research has been done on the smart city, in the world and even in Iran, urban smart-making projects still remain ineffective in some of these countries, including Iran. When these definitions are placed in a single reagent container, there are gaps in them. Because these definitions and vacuum reviews are the theoretical basis for many of the operational tasks in the intelligence of Third World cities, they themselves are the cause of many of the sterilization of these projects.

Methods: This research is a forward-looking development based on library-documentary research and survey (questionnaire). Its findings are divided into two parts: review and analytical - descriptive.

Results: In Iran, one of the problems of urban smart-making is the lack of process and non-systematic action in the direction of intelligence. In this research, from the experts' point of view, none of the requirements of the top ten key processes in smart management of Kerman city has been considered. Processes that provide systematic assurance of the implementation of global smart-making projects.

Conclusion: Therefore, Urban management in Kerman is required to accelerate the development of intelligence by inviting specialists in public and private sectors to process processes in the direction of their intelligence actions. Considering the main functional roles of the city in providing its smart-making management processes will be very effective, which also requires more in-depth studies.

Keywords: Futuristic, Smart City, Smart-Making, Process Requirements.

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References:

- Al-Hader, Mahmoud., Rodzi, Ahmad (2009). *The smart city infrastructure development and monitoring*. Theoretical and Empirical Researches in Urban Management, 4 (2), 87-94. **(In English)**
- Batty, M., Axhausen, K. W., Giannotti, F., Pozdnoukhov, A., Bazzani, A., Wachowicz, M., Ouzounis, G., Portugali, Y (2012). *Smart Cities of the Future*. European Physical Journal Special Topics, 214(1). **(In English)**
- Caragliu, A, Del, Bo., Nijkamp, P (2011). *Smart cities in Europe*. Journal of Urban Technology, 18(2), 65–82. **(In English)**
- Cohen, B (2012). *The Top 10 Smartest European Cities*. Co.Exist, 11 November. Available at <http://www.fastcoexist.com/1680856/the-top-10-smartest-european-cities> (visited 27 September 2013). **(In English)**
- Dirks, S., Gurdgiev, C., & Keeling, M (2010). *Smarter Cities for Smarter Growth: How Cities Can Optimize Their Systems for the Talent-Based Economy*. Somers, NY: IBM Global Business Services. **(In English)**
- Dirks, S., Keeling, M., Dencik, J (2009). *How Smart is Your City? Helping Cities Measure Progress*. Somers, NY: IBM Global Business Services. Available. **(In English)**
- Fortes, M.Z., Ferreira, V.H., Sotelo, G.G., Cabral, A.S., Correia, W.F., Pacheco, O.L.C (2014). *Deployment of smart metering in the Búzios City*. In Transmission & Distribution Conference and Exposition-Latin America (PES T&D-LA), 2014 IEEE PES. IEEE, 1–6. **(In English)**
- Giffinger R. Gudrum, P (2010). *Smart Cities: Ranking of European Medium-Sized Cities*. Centre of Regional Science (SRF), Vienna University of Technology. **(In English)**
- Giffinger, R., Fertner, C., Kramar, H., Kalasek, R., Pichler-Milanovic, N., Meijers, E (2007). *Smart cities: Ranking of European medium-sized cities*. Vienna University of Technology. (Available at: <http://www.smart-cities.eu/>). **(In English)**
- Giffinger, R., HGudrum, H (2010). *Smart Cities Ranking: An Effective Instrument for the Positioning of Cities*. Architecture, City, and Environment, 4(12), 7–25. **(In English)**
- Janajreh, Isam., Liu, Su, Fathi, Alan (2013). *Wind energy assessment: Masdar City case study*. Renewable energy, 52, 8–15. **(In English)**
- Johnson, B (2008). *Cities, systems of innovation and economic development*. Innovation: Management, Policy & Practice, 10(2-3), 146-155. **(In English)**
- Lahti, P., Jonna K., Pekka, H (2006). *Electronic and Mobile Participation in City Planning and Management Experiences from INTELCITIES, an Integrated Project of the Sixth Framework Programm of the European Union Cases Helsinki*, Tampere, Garðabær/Reykjavik and Frankfurt. **(In English)**
- Marceau, J (2008). *Introduction: Innovation in the city and innovative cities*. Innovation: Management, Policy & Practice, 10(2-3), 136-145. **(In English)**
- Navarro, José.Luis.Alfaro., Ruiz, Víctor.Raúl.López., Peña, Domingo.Nevado., (2016). *The effect of ICT use and capability on knowledge-based cities*. Journal of Cities, No.60, pp.272–280. **(In English)**
- Perera, Charith., Arkady, B., Zaslavsky, P.Ch., Georgakopoulos, Dimitrios (2014). *Sensing as a service model for smart cities supported by Internet of Things, Trans*. Emerging Telecommunications Technologies, 25(1) 81–93. DOI:<http://dx.doi.org/10.1002/ett.2704>. **(In English)**
- Pu, Liu., Zhenghong, Peng (2013). *Smart cities in China*. IEEE Computer Society, 16. **(In English)**
- Sagl, G., Resch, B., Mittlboeck, M., Hochwimmer, B., Lippautz, M., Roth, C (2012). *Standardised geo-sensor webs and web-based geo-processing for near real-time situational awareness in emergency management*. Int. J. Bus. Contin. Risk Manag, 3, 339–358. **(In English)**
- Schuurman, D., Baccarne, B., de Marez, L. and Mechant, P (2012). *Smart Ideas for Smart Cities: Investigating Crowdsourcing for Generating and Selecting Ideas for ICT Innovation in a City Context*. Journal of Theoretical and Applied Electronic Commerce Research, 7(3). **(In English)**
- Toppeta, D (2010). *The Smart City Vision: How Innovation and ICT Can Build Smart, Livable, Sustainable Cities*. The Innovation Knowledge Foundation. **(In English)**