## **ENGLISH ABSTRACTS**

Of Interest Scientific (refereed) articles - Theory & research

## How can Digital Collaborative Planning Integrate Knowledge Sources towards Holistic Planning? The Test Case of Beit Tzafafa Neighborhood in Jerusalem

Mariana Sigalov-Klein, Ran Marmor, Reut Sagron, Yuval Royburt, Noy Spiegel and Shlomit Flint-Ashery

## ---ABSTRACT -

In this paper, we discuss the ways in which citizen science can be harnessed to assimilate knowledge sources and engage local minority populations in planning. To date, a digital collaborative planning process has only been partially examined in terms of its ability to integrate knowledge sources towards comprehensive planning of distinct minority neighborhoods. By combining local knowledge with big data in urban future planning for Beit Tzafafa, an enclave neighborhood in Jerusalem inhabited by Muslim communities, this study updates previous theoretical approaches.

A collaborative geodesign workshop examined the real-time performance, influence, and decision-making of interactive scenarios of neighborhood planning by using GDH. We found that combining knowledge sources into a digital and directed process allows us to create a comprehensive plan that considers multi-integrations within and between the relevant systems. In this process, local knowledge mediates the points of contact between the different systems, creating a uniform and seamless space. Thus, the democratization of the planning process is supported while achieving the optimal planning product possible for residents.

Keywords: urban renewal; raze and rebuild; homeowners; displacement; building maintenance

Marianna Sigalov-Klein is a PhD student at Bar Ilan University's Department of Geography and Environment. Her doctoral thesis focuses on the gap between master plan planning and implementation in Jerusalem. Marianna is the head of the Department of Education Facilities Planning of the Jerusalem Municipality, focusing on urban planning and mixed-use development. <u>kleinfm@gmail.com</u>

Ran Marmor holds a master's degree in urban planning from Bar Ilan University, and works at 'Mlgr - urban planning, transportation, infrastructure and project management' as a statutory consultant and the company's center of planning maintenance. Ran works with national infrastructure companies such as the Natural Gas Authority, Israel Railways, the Water Authority and more. ranm11@netvision.net.il

Yuval Royburt, graduated with a master's degree in urban planning from Bar Ilan University. He works in the Planning Authority Division of the Israeli Ministry of Agriculture and Rural Development, dealing with the settlement law, planning management and maintenance, the Green Patrol inspectors etc. <a href="yuvalroiburt@gmail.com">yuvalroiburt@gmail.com</a>

Reut Sagron holds a master's degree in urban planning from Bar Ilan University. Reut manages the Urban Planning Department at the Petach Tikva Municipality and heads the urban renewal team, focusing on urban renewal, site conservation and historic city center development. reutmim@gmail.com

Noy Spiegel graduated with a master's degree in urban planning from Bar Ilan University. Noy works at the company 'Aviv Management and Consulting' as a geographic information systems specialist and an environmental consultant focusing on national infrastructure projects and urban renewal. nahituv6@gmail.com

Dr Shlomit Flint Ashery heads the Geodesign Strategy lab and the Urban Planning MA program at Bar *Ilan University.* shlomit.flint-ashery@biu.ac.il