

Ecological restoration in reducing urban vulnerability in the process of creating resilient cities

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Abstract

Climate change adaptation and disaster management perspectives are at the core of urban resilience. The quality of the city and urbanization is directly proportional to urban vulnerability. Being prepared for the problems, dangers, disasters, and risks cities face, and the capacity to respond to and adapt to them determine their urban resilience. In terms of danger, vulnerability, risk reduction capacity, emergency response and wound healing capacity, urban resilience includes the whole process from the stage of taking precautions before the disaster, identifying the dangers and vulnerabilities, and planning to disasters sensitively, to the emergency response/recovery stages after the disaster. Unplanned and unhealthy urbanization lead to the growth of insecure, discriminatory, and exclusionary negativities. Because the center of action regarding the development imperatives of the countries is directed towards urban areas, it becomes necessary, at the scale of resilient cities, to examine vulnerability and risk management in-depth, to encourage a multifaceted approach, and to identify potential opportunities. The concept of ‘vulnerability’ generally originates from natural disasters. There is increasing awareness of the cumulative impact that physical, social, economic, and systemic components have on cities' ability to resist vulnerability. Urban vulnerability is one of the biggest obstacles to sustainable development. Research on its evaluation and control in a regulatory way is of great importance both for improving the quality of urbanization and for ensuring sustainable development. Contemporary urbanization phenomenon requires reducing urban vulnerability and improving urbanization quality. Ecological restoration is planned as the process of helping to improve (recover) an ecosystem that has lost its property, is damaged or is destroyed. In this study, the urban vulnerability will be discussed comprehensively, and from a sustainable development perspective, reducing the negative effects of this process with ecological restoration practices in terms of urban ecological renewal will be focused on.

Keywords: City, urbanization, resilient cities, urban vulnerability, ecological restoration

