

Strategies of Smart City in Response to Climate Change: Focused on the Case Studies of Sweden, Japan, and Korea

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Abstract : The climate change poses a serious challenge to urban sustainability. To alleviate the environmental risk, urban planning has been concentrated on climate adaptation and mitigation, and the sustainable urban model, smart city, has been suggested. However, with regard to sustainable smart city development, a majority of researchers have focused mainly on the aspect of adaptation, which causes the lack of the approaches for mitigation. Therefore, the objective was to identify the planning elements of smart city with integrative reviews about mitigation and adaptation. Moreover, the concepts of smart cities in Sweden, Japan, and Korea were analyzed to find out the country-specific characteristics and strategies for achieving smart city.

Keywords : sustainable urban planning, climate change, mitigating and adaptation, smart city

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