SUSTAINABLE URBAN PLANNING AND DEVELOPMENT IN THE 21ST CENTURY: EXPLORING SINGAPORE'S SUCCESS IN SUSTAINABLE CITIES AND HUMAN SETTLEMENT

T.M.N.L. Bandara

*[1]Faculty of International Studies, Kelaniya University of Sri Lanka,
Dalugama, Sri Lanka
*Correspondence E-mail: nawoda9623@gmail.com, Phone: +94713452195
Presenting Author*

Abstract: Global urbanization presents unprecedented challenges to cities, including resource limitations, population expansion, and climate change. Singapore stands as a prime example of a sustainable urban development model, offering innovative case studies for exploring new urban planning and development approaches. This study examines Singapore's strategies for building sustainable human settlements and cities in the twenty-first century. With the aim of identifying important behaviours, policies, and strategies that support environmental sustainability and urban resilience. The focus mainly lies on understanding the fundamental concepts and tactics guiding Singapore's sustainable urban development and planning, other cities can learn from Singapore's experience by analyzing, Singapore's key success elements and challenges in implementing sustainable urban practices, and deriving lessons. The main objectives are to evaluate Singapore's methods and policies for sustainable urban development, evaluate how Singapore's initiatives match the goals of global sustainability, and determine the elements influencing Singapore's sustainable urban development achievements and difficulties. This study is qualitative and uses secondary sources, including websites, journal publications, and research articles. The findings suggest that Singapore's achievements in sustainable urban growth are attributed to a comprehensive strategy integrating land-use planning, transportation, housing, and environmental conservation. Singapore's focus on climate resilience and green infrastructure has also guaranteed the city flexibility to challenges posed by urbanization and climate change. Singapore's efforts in sustainable urban development and planning provide important insights for cities throughout the globe to become a worldwide leader in sustainable cities and human settlements for the twenty-first century.

Keywords: AI; Development; Environment; SDG