

A Review on Analysis on SWOC Factors Affecting the Growth of Smart Coimbatore for Developing a Strategic Framework for Sustainable Smart Cities Worldwide

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Abstract: In the context of rapid urbanization, the primary objective of smart city development is to enhance urban efficiency, sustainability, and quality of life through integrated planning and effective governance. The growth of smart cities is influenced by multiple internal and external factors related to governance, infrastructure, technology, socio-economic conditions, and environmental sustainability. Among various strategic tools, Strengths, Weaknesses, Opportunities, and Challenges (SWOC) analysis provides a structured approach for evaluating these factors in a comprehensive manner. Ineffective planning, fragmented institutional coordination, and lack of strategic alignment often lead to suboptimal outcomes in smart city initiatives, resulting in inefficient use of resources and limited long-term benefits. The growth of smart cities can be strengthened through informed strategic planning, stakeholder engagement, sustainable policy formulation, and the effective use of digital technologies. With increasing adoption of smart city initiatives in India, there is a growing need to systematically assess city-specific factors that influence smart city performance. To the best of the author's knowledge, this study utilizes an extensive review of existing smart city literature and a structured SWOC analysis to evaluate the factors affecting the growth of Smart Coimbatore. The findings of the study enable urban planners and policymakers to identify key strengths to be leveraged, weaknesses to be addressed, opportunities to be utilized, and challenges to be mitigated. The study further supports the development of a strategic framework aimed at improving governance efficiency, promoting sustainability, and enhancing the overall effectiveness of smart city implementation. The outcomes of this research contribute to improved strategic decision-making and provide insights applicable to sustainable smart city development in Coimbatore and similar urban contexts worldwide.

Keywords: Smart Cities, SWOC Analysis, Strategic Framework, Sustainable Urban Development