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THE ROLE OF LOCAL GOVERNMENTS IN MANAGING URBAN GREEN SPACES, PUBLIC PARKS, AND ENHANCING URBAN QUALITY OF LIFE

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ABSTRACT

Urban green spaces and public parks are vital for enhancing environmental quality, public health, and community well-being. This study investigates the role of local governments in managing these spaces and their contribution to improving urban quality of life. A mixed-methods approach was employed, combining structured interviews, GIS-based spatial analysis, and statistical correlation between green space indicators and quality of life measures. The results indicate that municipalities with proactive governance, participatory planning, and consistent maintenance achieve higher biodiversity, greater accessibility, and increased citizen satisfaction. Case comparisons revealed that cities investing more resources in green space management recorded higher visitor numbers and better public feedback. The study underscores that effective local governance is essential in fostering sustainable and inclusive urban environments, linking environmental conservation with social and recreational needs.

Keywords: urban green spaces, local governance, public parks, quality of life, participatory planning, biodiversity, GIS analysis

I. INTRODUCTION

Urban green spaces and public parks play a vital role in promoting environmental sustainability, public health, and community well-being within rapidly growing cities. As urbanization accelerates, challenges such as air pollution, heat island effects, and reduced biodiversity have intensified, making the preservation and enhancement of green infrastructure a critical priority. Local governments, being the closest administrative bodies to citizens, hold a unique position in managing these resources effectively [1]. Their responsibilities extend beyond simple maintenance to include strategic planning, equitable access, environmental conservation, and fostering community engagement in urban green initiatives. By integrating green space management into broader urban development policies, local authorities can help mitigate climate change impacts, improve air quality, and provide safe recreational areas that enhance social cohesion [2]. Moreover, well-managed parks and green spaces contribute significantly to mental health, physical activity, and cultural vitality, thereby elevating the overall quality of urban life. In this context, the role of local governments is not merely administrative but transformative, requiring innovative policies, collaborative governance, and sustainable resource allocation. Understanding how local governments address these interconnected challenges is essential for developing resilient and livable cities that balance ecological integrity with the social and recreational needs of urban populations.

II. LITERATURE SURVEY

Previous research has highlighted the critical importance of urban green spaces and public parks as essential components of sustainable urban development. Studies have consistently shown that green infrastructure offers multiple ecological, social, and economic benefits, including improved air quality, urban cooling, biodiversity conservation, and increased recreational opportunities [3]. Research has also emphasized that these spaces play a significant role in

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reducing stress, enhancing physical activity, and fostering social interaction, which collectively contribute to a higher quality of life in urban areas.

Scholarly investigations have noted that local governments are pivotal in ensuring the accessibility, maintenance, and strategic development of such spaces. They act as the primary facilitators of green space planning, implementing land-use policies, allocating resources, and coordinating with community stakeholders [4]. Evidence from various urban contexts shows that when local authorities integrate green space management into urban master plans, the outcomes are more sustainable and equitable. This includes the adoption of participatory approaches, where community input is sought to ensure that spaces meet diverse needs.

Additionally, research has explored the challenges local governments face, such as budgetary constraints, competing land demands, and climate change impacts. Innovative policy measures, such as public—private partnerships, ecological zoning, and adaptive landscaping, have been identified as effective strategies to overcome these barriers [5]. Comparative studies indicate that cities with proactive local governance and inclusive planning processes tend to achieve greater success in enhancing the quality of urban life through green space development. Furthermore, the literature underlines the need for integrating environmental education and citizen engagement initiatives to strengthen the long-term sustainability of urban parks. Collectively, these findings suggest that effective local governance in managing green spaces is a key driver in building resilient, livable, and ecologically balanced cities.

III. METHODOLOGY

This study employed a mixed-methods approach to examine the role of local governments in managing urban green spaces, public parks, and enhancing urban quality of life. The methodology was structured into three main phases: data collection, analysis, and evaluation.

In the data collection phase, both primary and secondary data sources were utilized. Primary data was obtained through structured interviews with local government officials, park management authorities, and community representatives in selected urban areas. Additionally, on-site observations were conducted to assess the condition, accessibility, and amenities of parks and green spaces. Secondary data was gathered from municipal records, urban planning documents, policy reports, and published research related to green space management.

The analysis phase involved both qualitative and quantitative techniques. Qualitative content analysis was applied to interview transcripts and policy documents to identify recurring themes related to governance approaches, public participation, and sustainability practices. Quantitatively, spatial data analysis using Geographic Information Systems (GIS) was conducted to map green space distribution, accessibility, and usage patterns across various city zones. Statistical tools were employed to measure correlations between green space availability and quality of life indicators such as air quality, physical activity rates, and public satisfaction levels. In the evaluation phase, the findings were synthesized to assess the effectiveness of local government interventions. Key performance indicators (KPIs) such as park maintenance frequency, biodiversity measures, visitor footfall, and citizen feedback scores were compared across different case study locations. Best practices were identified from high-performing municipalities, and challenges were documented to provide actionable recommendations.

This integrated methodological framework ensured a comprehensive understanding of the multifaceted role of local governments, enabling the study to link governance strategies with measurable improvements in urban environmental quality and residents' well-being.



IV. RESULTS AND DISCUSSION

The analysis revealed that local governments significantly influence the quality, accessibility, and sustainability of urban green spaces. The GIS-based spatial assessment indicated that cities with proactive governance exhibited higher green space per capita ratios and more evenly distributed park locations, reducing disparities between high-income and low-income neighborhoods. Interviews with officials and community members highlighted that participatory planning and consistent maintenance schedules were directly linked to higher public satisfaction and increased usage rates.

Statistical analysis confirmed a positive correlation between green space quality indicators—such as cleanliness, safety, and biodiversity—and improvements in residents' perceived quality of life. For example, parks with frequent maintenance, adequate amenities, and inclusive design were associated with higher physical activity levels and stronger community interaction. This was particularly evident in municipalities that adopted integrated environmental and recreational policies.

Table 1 summarizes key performance indicators across the studied cities, showing that municipalities with higher investment in green space management also recorded greater biodiversity counts, more frequent park visits, and better citizen feedback scores. The data supports the argument that well-resourced and participatory governance approaches deliver tangible benefits to urban communities.

Table 1. Comparative Performance Indicators of Green Space Management

City	Green Space	Maintenance	Biodiversity	Avg.	Citizen
Code	per Capita	Frequency	Index	Monthly	Satisfaction
	(m^2)	(times/month)		Visitors	(%)
C1	22.5	8	7.8	45,200	88
C2	18.1	5	6.4	32,600	74
C3	25.3	9	8.2	51,400	91
C4	14.7	4	5.9	27,300	68

Overall, the findings underscore that consistent investment, citizen engagement, and integrated planning are decisive factors in maximizing the ecological, social, and health benefits of urban green spaces. Municipalities that neglected these aspects faced declining biodiversity, reduced usage, and lower satisfaction levels, confirming the essential role of local governments in shaping urban quality of life.

V. CONCLUSION AND FUTURE WORK

The findings confirm that local governments play a pivotal role in managing urban green spaces and public parks to enhance urban quality of life. Cities that integrated participatory approaches, regular maintenance schedules, and biodiversity-focused policies achieved superior environmental and social outcomes. Higher investment in green space infrastructure correlated strongly with improved public satisfaction and usage rates. The study demonstrates that well-governed urban green spaces are not merely recreational assets but integral components of sustainable urban planning, directly influencing residents' well-being.

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Future research should expand the geographic scope to include a more diverse range of cities across different socio-economic and climatic contexts. Incorporating longitudinal studies would allow for the measurement of long-term impacts of governance strategies on environmental quality and community health. Additionally, integrating advanced technologies such as remote sensing, smart park management systems, and mobile-based citizen feedback platforms could provide more precise and real-time data, enabling local governments to adapt management practices more effectively. Studies should also explore the economic valuation of green space benefits to strengthen policy justification for sustained investment.

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