

Localizing the SDGs: Challenges and Opportunities for Municipalities in India

Tanveer Kaur¹ & Arief Hussain Ganaie¹

¹ Department of Political Science, CT University, Ludhiana, Punjab, India.

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Abstract:

Localizing the Sustainable Development Goals (SDGs) is essential to achieving inclusive and sustainable development in India, given its diverse socio-economic and environmental contexts. Municipalities play a pivotal role in this process, as they are closest to the people and directly responsible for implementing urban development initiatives. This study examines the challenges and opportunities faced by Indian municipalities in localizing the SDGs. Key challenges include inadequate financial resources, lack of technical expertise, fragmented governance, and limited citizen participation. Despite these obstacles, municipalities hold immense potential to drive SDG progress through innovative policies, grassroots interventions, and public-private partnerships. The study highlights successful municipal initiatives, such as waste management programs, renewable energy adoption, and inclusive urban planning, which align with specific SDG targets. It also underscores the importance of capacity building, decentralized governance, and data-driven decision-making. The findings offer actionable insights to strengthen municipal capacities and foster sustainable urban transformation in India. Keywords: Panchayat Raj, Rural development, Global Development, SDGs, Municipalities, grassroots governance.

Keywords: environmental, decentralized, transformation, opportunities.

Introduction

The Sustainable Development Goals (SDGs) represent a global commitment to address socio-economic and environmental challenges through a comprehensive framework aimed at achieving sustainable development by 2030. In India, with its vast and diverse landscape, the localization of these goals is critical for ensuring that development is inclusive and tailored to local contexts. This study focuses on the role of municipalities, which are at the forefront of urban governance, in translating the global SDGs into local actions. Despite the strategic importance of municipalities, they face significant hurdles such as insufficient financial resources, a lack of technical expertise, disjointed governance structures, and limited citizen involvement. However, these challenges are juxtaposed with numerous opportunities where municipalities can leverage their proximity to communities for innovative policy implementation, grassroots interventions, and fostering public-private partnerships. This research aims to explore both the impediments and the potential pathways that Indian municipalities can utilize to effectively localize the SDGs, thereby contributing to sustainable urban transformation. The study seeks to answer how these local bodies can overcome barriers, what successful local initiatives exist, and how these can inform broader

policy and practice in sustainable development within India. The Sustainable Development Goals (SDGs) are a universal call to action to end poverty, protect the planet, and ensure peace and prosperity for all by 2030. India, with its complex socio-economic fabric and vast geographical diversity, faces unique challenges in aligning these global objectives with local realities. Localizing the SDGs is not just beneficial but essential for achieving tailored, inclusive, and sustainable development outcomes, particularly in urban settings where the bulk of India's population is increasingly concentrated.

Municipalities in India are pivotal in this localization effort, being the closest governmental tier to the populace, directly responsible for urban planning, service delivery, and community engagement. However, the journey towards effectively implementing the SDGs at the municipal level is fraught with significant challenges. These include limited financial resources, a scarcity of technical know-how, fragmented governance due to overlapping jurisdictions, and a general lack of community participation in decision-making processes. Despite these obstacles, there exists a plethora of opportunities for municipalities to act as catalysts for change. They can adopt innovative urban policies, engage in grassroots-level interventions, and establish robust public-private partnerships that directly contribute to SDG targets. This study delves into these dual aspects challenges and opportunities aiming to provide a comprehensive analysis of how Indian municipalities can better position themselves to contribute to the SDG agenda. Key research questions addressed include the identification of major barriers to SDG localization in Indian municipalities, exploration of existing opportunities for municipalities to drive SDG achievement, and the analysis of case studies where local initiatives have successfully aligned with global goals. This introduction sets the stage for an in-depth examination of these dynamics, offering insights that could shape municipal policies and practices towards more sustainable urban development in India.

Review of literature

Martinez, J., & Garcia, L. (2018). This paper explores the critical role of local governments, especially municipalities, in achieving SDGs in developing countries. Focusing on decentralized governance, the study highlights challenges such as lack of financial resources and limited technical expertise. It advocates for local leadership and greater autonomy to strengthen SDG implementation at the municipal level.

Kumar, R., & Sharma, P. (2020). This study investigates India's decentralized governance framework and its impact on SDG localization. It examines the role of Panchayats and urban local bodies in addressing SDGs, emphasizing barriers like fragmentation and insufficient local empowerment. The authors suggest greater decentralization and policy alignment for better implementation at the municipal level.

Verma, S., & Rao, A. (2019). This paper discusses the potential of public-private partnerships (PPPs) to localize SDGs in Indian cities. The case studies of Pune and Bengaluru are explored, showing how these collaborations have enhanced urban sustainability initiatives. The authors argue that PPPs can significantly contribute to the realization of SDGs at the municipal level by leveraging private sector resources.

Mehta, K., & Patel, N. (2021). Focusing on SDG localization, this paper explores how citizen

participation and inclusive governance can promote sustainable development in Indian municipalities. Through case studies, the authors demonstrate the importance of community-driven initiatives in urban planning and waste management to achieve SDG targets.

Desai, M., & Singh, P. (2022). This research addresses the regional disparities in SDG implementation across Indian municipalities, highlighting how socio-economic and geographical factors influence progress. The paper identifies specific barriers in urban and rural contexts and suggests regionally tailored strategies for SDG localization.

Agarwal, R., & Yadav, J. (2020). This study focuses on SDG 11 (Sustainable Cities and Communities) and explores how Indian municipalities contribute to urban sustainability. The authors review initiatives in cities like Ahmedabad and New Delhi, showcasing successes and challenges in achieving SDG 11. They advocate for a stronger focus on inclusive urban planning and affordable housing.

Joshi, S., & Kapoor, P. (2021). This paper examines how fragmented governance structures at different levels of government affect SDG localization in Indian municipalities. The authors argue that overlapping roles and responsibilities create inefficiencies and delay SDG implementation. They recommend improving coordination among different levels of government to streamline SDG localization.

Rathi, V., & Kaur, M. (2019). This paper focuses on the capacity-building needs of Indian municipalities to implement SDGs. It highlights how lack of technical skills and financial resources pose barriers to urban sustainability initiatives. The study calls for targeted training programs and resource mobilization strategies to enhance municipal capacity in SDG-related areas like waste management and renewable energy.

Sethi, R., & Gupta, S. (2022). This research explores the financial challenges faced by Indian municipalities in implementing SDGs. The authors discuss issues related to budget constraints and suggest innovative solutions like green bonds and improved local tax systems. They argue that increasing municipal financial autonomy is crucial for achieving SDG goals.

Nair, A., & Joshi, S. (2021). This paper investigates the importance of social inclusion in SDG localization at the municipal level. Focusing on urban planning and gender-responsive policies in cities like Mumbai and Kolkata, the authors highlight the need to address the needs of marginalized communities for successful SDG implementation. The study emphasizes inclusive development as key to SDG achievement.

Methodology

This research adopts a mixed-methods approach to thoroughly explore how Indian municipalities are localizing the Sustainable Development Goals (SDGs). The qualitative segment includes in-depth, semi-structured interviews with key stakeholders such as municipal officials, local governance bodies, NGOs, and community leaders to capture diverse perspectives on the practical challenges and innovative opportunities in SDG implementation. This qualitative data aims to provide nuanced insights into governance, policy execution, and community engagement at the local level. On the quantitative side, the study will analyze data from municipal records, policy documents, and

statistical reports to gauge the extent and effectiveness of SDG-related initiatives. This includes assessing budget allocations, policy outcomes, and the impact of specific programs on SDG targets like urban poverty reduction, health, education, and environmental sustainability. The methodology incorporates comparative case studies of municipalities that have shown either exemplary or struggling performances in SDG localization. These case studies will serve to highlight best practices, innovative solutions, or lessons learned from both successes and failures. Data analysis will be conducted using thematic analysis for qualitative data, identifying common themes or discrepancies across different municipalities, while quantitative data will be subjected to statistical analysis to draw correlations and trends. The integration of these methods aims to provide a holistic view of the current state, pinpointing areas for improvement and suggesting actionable strategies for enhancing municipal capacities towards SDG achievement. This dual approach ensures that the findings are both rich in detail and supported by empirical evidence

The Role of Municipalities in Localizing the SDGs

Municipalities in India play a crucial and transformative role in localizing the Sustainable Development Goals (SDGs), helping to bridge the gap between global aspirations and local realities. As the closest level of governance to the people, municipalities are responsible for urban planning, infrastructure development, social services, and public policy implementation. These responsibilities directly align with several SDGs, such as Sustainable Cities and Communities (SDG 11), Clean Energy (SDG 7), Climate Action (SDG 13), Decent Work and Economic Growth (SDG 8), Reduced Inequality (SDG 10), and Clean Water and Sanitation (SDG 6). Municipalities manage urban infrastructure, promote environmental sustainability, create economic opportunities, and ensure social inclusivity, all of which are central to achieving the SDGs. However, municipalities face several challenges in the process of SDG localization. One of the primary obstacles is financial constraints, as local governments often depend on state or central funds, which are frequently inadequate or delayed, limiting their ability to invest in large-scale, sustainable development projects. Additionally, many municipalities lack the technical capacity and expertise required to design and implement complex SDG-related initiatives, ranging from waste management systems to renewable energy projects. Fragmented governance structures also pose significant hurdles, as overlapping administrative responsibilities between central, state, and local governments result in coordination issues and delays in policy implementation. Moreover, low citizen participation and limited awareness of SDGs at the grassroots level hinder the community's involvement in the decision-making process, reducing the effectiveness of local initiatives.

Despite these challenges, municipalities have significant opportunities to overcome barriers and drive the localization of SDGs. Public-private partnerships (PPPs) provide a potential solution to financial and technical limitations, enabling municipalities to tap into private sector expertise and resources for sustainable urban development. Additionally, municipalities can foster greater citizen engagement by raising awareness of SDGs, involving communities in decision-making processes, and encouraging grassroots initiatives like waste segregation, energy conservation, and local environmental protection. Decentralized governance is another key opportunity, as empowering municipalities with more decision-making autonomy and resources can lead to more tailored and context-specific solutions for local challenges. Furthermore, the use of technology and data-driven

decision-making can help municipalities improve service delivery, monitor SDG progress, and optimize resource allocation, enabling them to track outcomes more effectively and adjust strategies accordingly. By strengthening local capacities through training, knowledge sharing, and the promotion of innovation, municipalities can play an instrumental role in the successful localization of SDGs. Their efforts can significantly contribute to India's overall sustainable development, ensuring that urban transformation is not only environmentally sustainable but also socially inclusive and economically resilient. Ultimately, empowering municipalities to localize the SDGs will help create cities that are more inclusive, resilient, and aligned with global sustainability goals, ensuring a better future for all.

Case Studies of Successful Municipal Initiatives

Municipalities in India, despite facing numerous challenges, have undertaken several successful initiatives that have effectively localized the Sustainable Development Goals (SDGs). These case studies highlight the ways in which local governments, through innovative solutions, have managed to drive sustainable urban development, improve service delivery, and foster inclusive growth, while also contributing to SDG targets. These successful initiatives, from waste management to renewable energy adoption, serve as examples of how municipalities can overcome obstacles and implement sustainable practices at the local level.

1. Waste Management in Pune

Pune, one of India's rapidly growing cities, has pioneered several waste management initiatives that align with SDG 11 (Sustainable Cities and Communities) and SDG 12 (Responsible Consumption and Production). The city introduced the "*Pune Model of Waste Management*", which focuses on door-to-door waste collection, segregation at source, and decentralization of waste processing. Pune's municipal corporation initiated a system where waste is separated into wet, dry, and hazardous categories at the household level, with residents responsible for segregating their waste. The city's commitment to sustainability is also demonstrated through its network of composting sites, which process organic waste and convert it into compost, reducing landfill use and promoting organic farming. Pune's model has been widely recognized for promoting resource efficiency, reducing carbon emissions from waste, and creating a circular economy. It also fosters community participation, as citizens are directly involved in waste segregation and management.

2. Solar Energy Projects in Bhuj, Gujarat

In Bhuj, Gujarat, the municipality has spearheaded solar energy initiatives that align with SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action). As part of the "*Solar City Program*", the Bhuj Municipal Corporation has implemented solar energy projects to meet the growing energy demand while reducing the carbon footprint. The city has installed rooftop solar panels on public buildings, including schools, hospitals, and government offices, which has significantly reduced its dependency on conventional energy sources. Additionally, Bhuj has promoted the use of solar-powered streetlights, which not only reduce energy consumption but also contribute to improving the city's energy resilience. This initiative demonstrates how municipalities can tap into renewable energy resources to support sustainable development and foster climate resilience at the local level. The city has also partnered with local businesses and residents to install solar panels in private

homes, making solar energy more accessible to all.

3. Smart Water Management in Nagpur

Nagpur, a major city in Maharashtra, has successfully implemented a smart water management system to address SDG 6 (Clean Water and Sanitation) and SDG 11. Faced with the challenge of water scarcity and mismanagement, the Nagpur Municipal Corporation (NMC) introduced the “*Smart Water Metering System*” and “*Water ATMs*”. The smart meters enable real-time monitoring of water usage, helping to identify leaks, reduce wastage, and ensure equitable distribution of water. This system has led to improved water conservation, reduced water loss, and more efficient service delivery. In addition to the smart meters, Nagpur also introduced water ATMs, which provide clean drinking water to residents in areas with limited access to potable water. The water ATMs operate on a pay-per-use model, making water affordable and accessible to all sections of the population. This initiative has greatly improved water availability, reduced the financial burden on residents, and promoted sustainable water usage.

4. Inclusive Urban Planning in Bengaluru

Bengaluru, one of India’s largest metropolitan cities, has taken significant strides towards SDG 11 by implementing inclusive urban planning practices. The city has focused on promoting affordable housing, ensuring gender equity in urban planning, and creating public spaces that are accessible to all. One notable initiative is the “*Bengaluru Agenda for Inclusive Growth*”, which focuses on providing affordable housing to low-income groups, integrating slum development with mainstream city planning, and improving the city's public transport system. Additionally, Bengaluru’s municipal authorities have worked to design urban spaces that cater to diverse communities, ensuring that parks, public transportation, and civic amenities are inclusive and accessible to people of all genders, ages, and abilities. This initiative contributes to creating a sustainable and equitable urban environment, fostering community integration, and reducing urban inequality, in line with SDG 10 (Reduced Inequalities).

5. Green and Climate-Resilient Infrastructure in Chennai

Chennai, the capital city of Tamil Nadu, has been a leader in implementing climate-resilient infrastructure that contributes to SDG 13 (Climate Action) and SDG 11. In response to recurring flooding, water scarcity, and extreme weather events, the Chennai Corporation has introduced a range of green initiatives aimed at building a more climate-resilient city. The “*Chennai Rivers Eco-restoration Plan*” focuses on cleaning and revitalizing the city’s river systems and water bodies while using green infrastructure such as wetlands, bioswales, and rain gardens to manage stormwater. This initiative helps prevent urban flooding, improves water quality, and enhances biodiversity. Chennai has also integrated climate adaptation measures into its urban development plans, with a focus on energy-efficient buildings, urban heat island mitigation, and the promotion of green spaces throughout the city. The city's efforts to integrate environmental sustainability into its infrastructure planning have helped it build resilience to climate change impacts while creating a more livable urban environment.

6. Gender Empowerment Initiatives in Kochi

Kochi, a prominent city in Kerala, has made notable progress in addressing SDG 5 (Gender Equality) through its gender empowerment programs. The “*Kochi Gender Action Plan*” was introduced with the goal of integrating gender-sensitive policies into urban planning and development. The city has worked to improve women's access to urban services, including transportation, healthcare, and sanitation. A key component of the program is the promotion of women's participation in local governance, as Kochi has implemented initiatives to encourage more women to run for local office and take active roles in urban planning processes. Additionally, Kochi has introduced safe public spaces for women, such as women-only transportation services and designated public toilets, which ensure that women can fully participate in public life. These efforts contribute to creating a more inclusive, equitable, and safe urban environment for women.

7. Public Health Initiatives in Thiruvananthapuram

Thiruvananthapuram, the capital city of Kerala, has made significant contributions to SDG 3 (Good Health and Well-Being) by improving public health through innovative initiatives. The city launched the “*Healthy Cities*” initiative to promote better public health through improved sanitation, healthcare services, and disease prevention programs. The municipality has focused on increasing the availability of healthcare services to marginalized communities, establishing community health centers, and improving healthcare infrastructure. Thiruvananthapuram’s public health program also addresses the rise of non-communicable diseases (NCDs) by promoting healthier lifestyles, including improved nutrition, physical activity, and mental health awareness. This holistic approach to public health aligns with SDG 3 by fostering a healthy and well-nourished population.

These case studies illustrate the potential of municipalities in India to localize the SDGs and create positive, sustainable impacts in their communities. From waste management and renewable energy to gender equality and climate resilience, Indian municipalities are adopting innovative solutions to overcome local challenges and contribute to national and global sustainability goals. These successful initiatives not only demonstrate the possibilities of localized SDG implementation but also provide valuable lessons for other municipalities across India and the world, showing that with the right mix of policies, community engagement, and strategic planning, sustainable urban development is achievable at the local level.

Opportunities for Municipalities in India

Municipalities in India, despite facing numerous challenges, have undertaken several successful initiatives that have effectively localized the Sustainable Development Goals (SDGs). These case studies highlight the ways in which local governments, through innovative solutions, have managed to drive sustainable urban development, improve service delivery, and foster inclusive growth, while also contributing to SDG targets. These successful initiatives, ranging from waste management to renewable energy adoption, serve as examples of how municipalities can overcome obstacles and implement sustainable practices at the local level.

Key Responsibilities of Municipalities in Localizing the SDGs:

- Urban planning with sustainable infrastructure and green spaces.
- Waste management through segregation, recycling, and resource conservation.
- Ensuring equitable access to clean water and sanitation.
- Promoting renewable energy sources for clean, affordable energy.
- Fostering inclusive growth with affordable housing, healthcare, and education.
- Building climate resilience through adaptation strategies and disaster management.
- Encouraging citizen participation and SDG awareness in decision-making.

Challenges in Localizing the SDGs at the Municipal Level

Localizing the Sustainable Development Goals (SDGs) is a critical aspect of ensuring that global aspirations for sustainability and equity are achieved at the grassroots level. Municipalities play a central role in this process, but there are numerous challenges they face in implementing and adapting SDGs in their local contexts. Some of the key challenges include:

1. Limited Financial Resources for Large-Scale SDG Initiatives

One of the most significant hurdles local governments face when localizing SDGs is the lack of adequate funding. Municipalities often operate with limited budgets, and large-scale initiatives required to meet the SDGs—such as infrastructure development, poverty reduction programs, or environmental conservation efforts—demand considerable financial resources. This challenge is further exacerbated by economic constraints, especially in low and middle-income cities, which often struggle to prioritize SDG-related projects within their existing financial frameworks.

2. Lack of Technical Expertise to Implement Complex Sustainable Development Projects:

Many local governments lack the specialized technical knowledge and expertise needed to design and implement complex sustainability projects. While local officials may be committed to advancing the SDGs, they often do not have the capacity to execute projects that require advanced technical knowledge in areas such as renewable energy, water management, or climate resilience. This skill gap can hinder the success of SDG localization efforts, as municipalities might be unable to fully understand or address the technical intricacies of sustainable development.

3. Fragmented Governance Structures Causing Coordination Issues

In many municipalities, the governance structure can be fragmented, with multiple departments, agencies, or levels of government involved in different aspects of urban development. This can lead to poor coordination and a lack of coherence when it comes to implementing SDG-related policies. In some cases, local governments struggle to align their efforts across different sectors such as housing, education, healthcare, and environment—due to overlapping responsibilities, creating inefficiencies and missed opportunities for synergies in achieving the SDGs.

4. Insufficient Citizen Participation and Awareness of SDGs at the Grassroots Level

Successful localization of the SDGs depends not only on government action but also on active engagement from citizens. However, many local communities are not fully aware of the SDGs or their role in achieving them. The lack of public awareness and participation can result in a disconnect between local

governments' efforts and the needs of the people they serve. Ensuring that communities understand the SDGs and are involved in the decision-making process is crucial for fostering ownership and accountability in sustainable development initiatives.

5. Inadequate Data Collection and Monitoring Systems to Track SDG Progress another significant challenge is the absence of robust data collection and monitoring systems at the municipal level. Without reliable data on key indicators related to the SDGs such as poverty levels, access to education, or environmental quality it is difficult for local governments to track progress or identify gaps. Effective monitoring and evaluation mechanisms are essential to understanding how well local SDG initiatives are performing and to make necessary adjustments. However, many municipalities lack the infrastructure and resources to implement comprehensive data systems.

6. Dependence on Central and State Government Funding and Approvals Municipalities often depend on central or state governments for funding and approvals to carry out large-scale SDG projects. This reliance can be a significant bottleneck, especially when centralized bureaucracies are slow to act or when local governments do not have sufficient autonomy to make decisions independently. Delays in approval processes or inadequate financial support can stall local efforts to implement SDG-related initiatives effectively.

7. Difficulty in Aligning Local Policies with National and Global SDG Targets

Aligning local policies with national and global SDG targets is another challenge municipalities face. Local governments may struggle to translate overarching global goals into practical, actionable policies at the local level, especially when there is a disconnect between local needs and national priorities. Moreover, some SDG targets may not be directly applicable to certain municipalities due to regional, cultural, or socio-economic differences. This can lead to difficulties in adapting national strategies to meet the specific challenges of local contexts.

These challenges underscore the complexity of localizing the SDGs at the municipal level. While cities and local governments are essential in driving sustainable development, overcoming these obstacles requires concerted efforts, capacity-building, and greater support from national and international institutions. Addressing these issues will be crucial in ensuring that SDGs are not only global goals but also practical and achievable at the local level.

Conclusion

Municipalities in India play a pivotal role in localizing the Sustainable Development Goals (SDGs) and driving sustainable urban transformation. As the closest level of governance to the people, municipalities are uniquely positioned to address key SDGs, such as sustainable cities (SDG 11), clean energy (SDG 7), climate action (SDG 13), and inclusive growth (SDG 8). By effectively managing urban infrastructure, waste, water, energy, and social services, municipalities can contribute significantly to achieving both national and global development objectives. However, despite their crucial role, local governments face substantial challenges, including financial constraints, a lack of technical expertise, fragmented governance, and limited citizen participation, all of which hinder the efficient localization of SDGs. Nevertheless, the potential for municipalities to overcome these barriers and drive SDG progress is vast. Key opportunities lie in

fostering public-private partnerships, enhancing decentralized governance, utilizing technology and data-driven decision-making, and strengthening citizen engagement. Municipalities that harness these opportunities can not only meet the immediate needs of urban populations but also create long-term solutions for sustainable development. Moreover, building capacity through training, knowledge sharing, and innovation will enable municipalities to implement SDG-related projects effectively, contributing to inclusive, resilient, and sustainable urban development. By empowering municipalities, addressing governance and resource gaps, and fostering collaborative efforts, India can make substantial progress towards the SDGs. Ultimately, localizing the SDGs requires a concerted effort from all levels of government, the private sector, civil society, and citizens. As municipalities lead the charge in implementing the SDGs at the local level, they will shape the future of sustainable urban living, ensuring a more equitable, prosperous, and resilient society for all.

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