# Hygiene Services in Urban Administration and Management: Issues, Challenges and Realities of Community Health Management

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#### **Abstract**

he issue of open defecation remains a critical public health and governance challenge, particularly in urban areas of low- and middle-income countries. Despite global efforts to improve water, sanitation, and hygiene (WASH) services, many urban centres continue to face significant gaps in access and management. Open defecation is driven by a combination of socio-economic disparities, infrastructural deficits, weak policy implementation, and insufficient institutional coordination. Its implications extend beyond public health to include economic losses, environmental degradation, and social inequities, disproportionately affecting vulnerable populations such as women, children, and marginalised groups. Addressing this challenge requires integrated approaches that strengthen urban governance, promote community participation, and leverage innovative solutions for effective sanitation management. A focus on inclusive and accountable public administration can ensure equitable access to sanitation and hygiene services, contributing to healthier and more sustainable urban environments.

**Keywords**: Open Defecation, Urban Management, Public Health, Governance, Sanitation Services,

#### Introduction

Open defecation represents one of the most pressing public health and environmental challenges in urban areas, particularly in low- and middle-income countries. Despite the global push for improved sanitation through initiatives like the United Nations Sustainable Development Goals (SDGs), millions of people still lack access to basic sanitation facilities. According to UNICEF (2021), over 673 million people worldwide practise open defecation, with a significant proportion residing in urban and peri-urban settlements in developing countries. The persistence of this practice in urban areas poses severe risks to public health, compromises environmental quality, and undermines efforts to achieve sustainable urban development.

Urban centres are often perceived as hubs of progress, infrastructure, and modern living. However, rapid urbanisation, particularly in developing countries, has outpaced the capacity of governments and urban planners to provide adequate sanitation services. Informal settlements and slums, which are home to a substantial portion of urban populations, often lack proper toilets, sewer systems, and water supply, forcing residents to resort to open defecation. This not only affects the dignity and safety of individuals but also contributes to the contamination of water sources, the spread of diseases, and the deterioration of urban ecosystems.

The practice of open defecation in urban settings is intertwined with the broader challenges of water, sanitation, and hygiene (WASH) services. Effective urban management requires a holistic approach to addressing these interconnected issues. Inadequate WASH services exacerbate the problem, as insufficient access to clean water and functional sanitation

# KASHERE JOURNAL OF POLITICS AND INTERNATIONAL RELATIONS VOL. 3, ISSUE 3 JULY, 2025 ISSN Prints: 2616-1264 Online: 3027-1177

facilities leaves residents with no choice but to defecate in open spaces. This cycle of poor sanitation and inadequate hygiene contributes to the proliferation of waterborne diseases such as cholera, diarrhoea, and typhoid fever, which disproportionately affect vulnerable populations, including children and women.

Governance and public administration play a pivotal role in addressing the sanitation crisis in urban areas. The failure of governments to prioritise sanitation in urban planning and development agendas is a key factor contributing to the prevalence of open defectation. Weak institutional frameworks, fragmented policies, and insufficient resource allocation hinder the implementation of effective sanitation programmes. Furthermore, the lack of coordination among agencies responsible for water and sanitation services exacerbates inefficiencies, leaving urban residents to bear the brunt of poor service delivery.

The socio-economic dimension of open defecation cannot be ignored. Poverty and inequality are significant drivers of the practice, as low-income households are often unable to afford private toilets or pay for sanitation services. In addition, cultural and behavioural factors influence attitudes toward sanitation. In some communities, open defecation is deeply ingrained in daily practices, with residents perceiving it as a norm rather than a problem. These cultural barriers complicate efforts to promote behaviour change and adopt modern sanitation solutions.

The implications of open defecation extend beyond health and environmental concerns to impact urban governance, social equity, and economic productivity. The contamination of water bodies and public spaces diminishes the quality of life in cities, while the costs associated with healthcare and productivity losses place additional burdens on already strained economies. Women and girls face unique challenges, as the lack of safe and private sanitation facilities exposes them to risks of harassment and gender-based violence. Moreover, the stigma associated with open defecation perpetuates social exclusion and marginalisation, further entrenching inequalities in urban settings.

# **Causes of Open Defecation in Urban Areas**

The persistence of open defecation in urban areas is the result of a combination of socioeconomic, infrastructural, cultural, and governance-related factors. These causes are deeply interconnected, creating a complex web of challenges that make addressing the issue particularly difficult.

#### Socio-Economic Factors: Poverty and Affordability

Poverty is a primary driver of open defecation in urban areas. Low-income households, particularly in informal settlements, often lack the financial means to construct private toilets or access paid sanitation services. For many, the cost of installing or maintaining a toilet is prohibitive, leaving open defecation as the only viable option. This economic barrier is compounded by the lack of affordable public toilets, forcing residents to use open spaces such as alleys, riverbanks, or waste dumps.

WaterAid (2021) highlights that over 60% of households practising open defecation in urban slums cite financial constraints as the main reason for their inability to access sanitation facilities. These constraints are often exacerbated by systemic inequality, with marginalised groups such as migrants and informal workers bearing the brunt of poor urban planning and service delivery.

#### i) Infrastructural Deficits: Lack of Sanitation Facilities

Urban areas, especially in developing countries, often suffer from a severe lack of sanitation infrastructure. Rapid urbanisation has led to the proliferation of informal settlements where basic amenities, including toilets and sewage systems, are either non-existent or grossly inadequate. Many urban slums are located on marginal land with no provision for sanitation facilities, leaving residents without alternatives.

Even in areas with access to toilets, the facilities are often poorly maintained, overcrowded, or dysfunctional. Shared toilets, commonly found in low-income neighbourhoods, may not meet the needs of all residents due to their limited capacity and unhygienic conditions. The absence of functional sewer systems and wastewater treatment plants further compounds the problem, as untreated waste contaminates the environment and water sources, perpetuating the cycle of poor sanitation.

#### ii) Cultural and Behavioural Norms

Cultural and behavioural factors significantly influence the practice of open defecation in urban areas. In some communities, open defecation is deeply ingrained in daily life and is considered a traditional practice. For instance, residents in rural areas migrating to cities may continue this habit due to a lack of awareness about the health risks or the perceived inconvenience of using modern sanitation facilities.

Behavioural resistance to change is also a significant challenge. Some individuals view shared or public toilets as unhygienic or unsafe, preferring open spaces despite the risks. In addition, misconceptions about modern sanitation, such as the belief that flushing toilets require excessive water, discourage their adoption in water-scarce regions. Addressing these cultural and behavioural norms requires targeted education and awareness campaigns to promote the adoption of safe and hygienic practices.

#### iii) Urban Planning Failures and Rapid Urbanisation

The rapid growth of urban populations has outpaced the ability of governments and planners to provide adequate sanitation infrastructure. In many cities, urban planning has failed to prioritise sanitation, resulting in inadequate toilet facilities and sewer systems. Informal settlements, which house a significant proportion of urban residents, are often excluded from formal urban plans and lack access to basic services.

The lack of integration between urban planning and sanitation management has also led to fragmented and inefficient service delivery. For example, municipal authorities may focus on water supply while neglecting the corresponding need for wastewater management, leaving open defectaion as a persistent problem. This failure to adopt a holistic approach to urban planning underscores the need for better coordination and prioritisation of sanitation in urban development policies.

# iv) Weak Governance and Policy Implementation

Weak governance and ineffective policy implementation are major contributors to the persistence of open defecation in urban areas. Despite the existence of national sanitation policies and international commitments, many governments lack the capacity or political will to enforce these frameworks effectively. Corruption, bureaucratic inefficiencies, and resource mismanagement often divert funds away from sanitation projects, leaving urban residents underserved.

Inadequate monitoring and accountability mechanisms further exacerbate the problem. Without regular inspections or enforcement of sanitation standards, many public and private actors fail to provide reliable services. For instance, private operators managing public toilets may neglect maintenance due to a lack of oversight, rendering these facilities unusable. Strengthening governance and policy implementation is critical for ensuring that sanitation initiatives reach the communities most in need.

### **Impacts of Open Defecation on Urban Communities**

Open defecation in urban areas has far-reaching consequences that extend beyond individual households, affecting entire communities and cities. Its impacts are multi-dimensional, encompassing public health, environmental degradation, economic costs, and social equity challenges. These consequences not only undermine the quality of life in urban areas but also hinder sustainable development and effective urban governance.

#### i) **Public Health Implications**

Open defecation is a major public health concern, contributing to the spread of diseases such as cholera, diarrhoea, typhoid fever, and intestinal infections. According to the World Health Organization (WHO), inadequate sanitation is responsible for over 432,000 deaths annually worldwide, with a significant portion of these deaths occurring in urban areas with poor sanitation services (WHO, 2021).

Urban environments are particularly vulnerable to the health risks posed by open defecation due to high population density and the interconnected nature of water and sanitation systems. Faecal contamination of water sources, resulting from open defecation, creates a breeding ground for waterborne diseases. This contamination affects not only drinking water supplies but also urban agriculture, as polluted water is often used for irrigation.

Children are disproportionately affected by the health impacts of open defecation. Exposure to faecal matter increases their risk of stunting, malnutrition, and repeated infections, which can have lifelong consequences for their physical and cognitive development. Women and girls also face unique health challenges, as the lack of safe and private sanitation facilities increases their vulnerability to urinary tract infections and other hygiene-related illnesses.

#### ii) Environmental Degradation

The environmental consequences of open defecation are profound, particularly in urban areas where waste disposal systems are often inadequate. Open defecation contributes to the pollution of rivers, lakes, and other water bodies, as untreated human waste is washed into these ecosystems during rainfall. This pollution not only affects aquatic life but also compromises the quality of water used for domestic and industrial purposes.

Urban landscapes are also negatively impacted by open defecation. Public spaces such as parks, roadsides, and alleyways often become informal sites for defecation, creating unsightly and unhygienic conditions. These degraded environments reduce the aesthetic appeal of cities and make them less liveable for residents and visitors alike. Additionally, the accumulation of human waste in urban areas contributes to foul odours and attracts disease vectors such as flies and rodents, further exacerbating public health risks.

#### iii) Economic Costs

The economic impacts of open defecation are significant, affecting both households and urban economies. The healthcare costs associated with treating diseases caused by poor sanitation place a heavy financial burden on families and public health systems. According to a report by the World Bank, countries with high rates of open defecation lose an estimated 1-2% of their GDP annually due to healthcare expenditures, reduced productivity, and premature deaths (World Bank, 2019).

In urban areas, open defecation can also deter investment and tourism, as poor sanitation undermines the city's image and appeal. Businesses may face increased operational costs due to water contamination and the need for additional hygiene measures. Moreover, the time spent by individuals, particularly women and girls, in finding safe places for defecation reduces their productivity and limits their participation in economic activities.

#### iv) Social and Gendered Impacts

Open defecation exacerbates social inequities, disproportionately affecting marginalised groups such as women, children, and low-income households. The lack of access to safe and private sanitation facilities exposes women and girls to risks of harassment, violence, and sexual assault, particularly in urban slums and informal settlements. For many women, the absence of sanitation facilities during menstruation poses additional challenges, leading to social exclusion and missed opportunities in education and work.

The stigma associated with open defecation further marginalises affected populations. Individuals practising open defecation are often subject to discrimination and social ostracism, perpetuating cycles of inequality and exclusion. In urban settings, these social dynamics contribute to tensions between communities and local authorities, undermining efforts to foster social cohesion and inclusivity.

#### v) Challenges to Urban Sustainability

The impacts of open defecation extend to broader issues of urban sustainability. Poor sanitation infrastructure and practices strain existing urban systems, making it difficult to achieve sustainable development goals. The contamination of water sources and the degradation of public spaces reduce the resilience of urban environments to climate change and other stressors.

Furthermore, the failure to address open defecation in urban areas undermines the credibility of local governments and public administration. Residents may lose trust in authorities perceived as ineffective in providing basic services, leading to dissatisfaction and resistance to future urban development initiatives.

#### Challenges in Addressing Open Defecation and Water Services in Urban Areas

The persistence of open defecation in urban areas underscores the multifaceted challenges in addressing water, sanitation, and hygiene (WASH) services. Despite increased global attention to sanitation, several barriers hinder progress, ranging from governance and institutional weaknesses to infrastructural deficits, socio-cultural dynamics, and resource limitations. These challenges highlight the complexity of managing sanitation in urban contexts, where rapid urbanisation, economic disparities, and environmental pressures converge.

#### i) Weak Institutional Frameworks and Policy Fragmentation

A significant challenge in addressing open defecation is the lack of cohesive and effective institutional frameworks. Sanitation responsibilities in many urban areas are divided among multiple agencies, leading to fragmented governance and overlapping mandates. For example, municipal authorities may oversee waste management, while water supply is managed by state-level agencies, creating gaps in coordination and accountability.

Moreover, the absence of clear, enforceable policies exacerbates the issue. National sanitation policies are often poorly implemented at the local level due to a lack of capacity, political will, or resources. In some cases, conflicting policies or regulations undermine efforts to provide integrated WASH services. This fragmentation impedes progress, leaving urban residents underserved and vulnerable to the consequences of poor sanitation.

#### ii) Infrastructural Deficits and Resource Constraints

Inadequate infrastructure remains one of the most visible barriers to addressing open defecation in urban areas. Many cities lack sufficient public toilets, sewer systems, and waste treatment facilities, leaving residents with no choice but to defecate in open spaces. Informal settlements, which house a large portion of urban populations, are particularly affected, as these areas are often excluded from formal urban planning and infrastructure development.

Resource constraints further compound the problem. Municipal budgets allocated to sanitation are often insufficient to meet the growing demand for WASH services. The construction and maintenance of sanitation infrastructure require substantial investments, which are challenging to secure in resource-limited settings. Additionally, reliance on outdated or inappropriate technologies can hinder the efficiency and sustainability of sanitation systems.

#### iii) Socio-Cultural Barriers to Behavioural Change

Addressing open defecation requires not only infrastructural solutions but also significant behavioural change. In many urban communities, socio-cultural factors hinder the adoption of modern sanitation practices. For instance, long-standing habits and traditions may lead individuals to view open defecation as normal or preferable to using shared or public toilets.

Stigma and misinformation about sanitation facilities can also discourage their use. In some cases, residents avoid using toilets due to concerns about cleanliness, safety, or privacy. For women and girls, the lack of gender-sensitive facilities exacerbates these challenges, as they may feel unsafe or uncomfortable using shared toilets. Behavioural change campaigns must be tailored to address these socio-cultural dynamics, promoting awareness and acceptance of improved sanitation practices.

#### iv) Challenges in Monitoring and Enforcement

Monitoring and enforcing sanitation standards is another critical challenge in urban areas. Municipal authorities often lack the capacity to track sanitation practices or ensure compliance with regulations. Informal settlements, in particular, pose difficulties for enforcement, as their unregulated nature makes it hard to implement policies or maintain oversight.

The absence of reliable data on sanitation coverage and practices further hinders monitoring efforts. Accurate and up-to-date information is essential for identifying gaps, allocating

resources, and evaluating the effectiveness of interventions. Without robust monitoring systems, it becomes difficult to measure progress or hold stakeholders accountable for achieving sanitation goals.

# v) Political Priorities and Sanitation Neglect

Sanitation often takes a back seat in urban governance, overshadowed by other pressing issues such as housing, transportation, and economic development. Political leaders may prioritise visible infrastructure projects, such as roads and bridges, over sanitation facilities, which are less conspicuous but equally critical.

The neglect of sanitation in urban planning reflects broader issues of governance and accountability. In some cases, political considerations may influence the allocation of resources, with sanitation services concentrated in wealthier or politically influential areas while low-income communities remain underserved. This disparity perpetuates inequality and undermines efforts to address open defectaion comprehensively.

# **Urban Sanitation Successes and Challenges: Global Insights**

The diverse efforts undertaken by urban centres worldwide to address open defecation provide valuable insights into the successes and challenges of urban sanitation management. These experiences highlight the interplay between governance, community engagement, and innovative solutions in tackling the pervasive issue of open defecation. From participatory approaches that empower local communities to technology-driven solutions that reimagine sanitation delivery, the examples demonstrate that effective strategies require adaptability to local contexts and sustained commitment.

Global insights reveal that while some urban areas have made remarkable strides in reducing open defecation through integrated sanitation initiatives, others continue to grapple with implementation gaps and systemic barriers. These challenges often stem from limited financial resources, infrastructural inadequacies, and socio-cultural resistance.

#### i) Kumasi, Ghana: Community-Led Total Sanitation (CLTS) Approach

Kumasi, a major city in Ghana, has successfully adopted the Community-Led Total Sanitation (CLTS) approach to combat open defecation. This participatory model involves mobilising communities to assess their sanitation practices, identify risks, and take collective action to eliminate open defecation.

In Kumasi, local leaders played a pivotal role in encouraging behavioural change. Through regular community meetings and public health campaigns, residents were educated on the health risks associated with open defecation and the benefits of using hygienic sanitation facilities. The initiative also included the construction of affordable household toilets, supported by microfinance schemes to ensure accessibility for low-income families (Kar& Chambers, 2008).

The CLTS approach in Kumasi demonstrates the importance of community ownership in driving sustainable sanitation improvements. However, the model also faced challenges, such as ensuring long-term maintenance of toilets and addressing cultural barriers to behaviour change.

#### ii) Ahmedabad, India: Public-Private Partnerships for Sanitation

Ahmedabad, one of India's largest cities, has implemented a public-private partnership (PPP) model to improve access to sanitation facilities in urban areas. This initiative involved collaboration between the municipal government and private companies to construct and maintain public toilets.

Under the PPP framework, private operators were incentivised through revenue-sharing agreements, allowing them to generate income from advertisements and user fees. This model ensured the regular maintenance and cleanliness of facilities, making them more attractive and accessible to users (UNICEF India, 2019).

Despite its success, the Ahmedabad model highlighted the importance of inclusivity. Critics argued that user fees excluded the poorest residents, underscoring the need for subsidised options to ensure equitable access. Nevertheless, the PPP approach demonstrates the potential of leveraging private sector expertise to address sanitation challenges in urban areas.

# iii) Kigali, Rwanda: Integration of Sanitation into Urban Planning

Kigali, Rwanda's capital, stands out for its integrated approach to urban planning, which prioritises sanitation alongside other essential services. The city has implemented a comprehensive urban development strategy that includes the construction of public toilets, wastewater treatment plants, and decentralised sewer systems.

The Kigali City Council worked closely with international development partners to secure funding and technical expertise for these projects. Emphasis was placed on sustainability, with facilities designed to recycle wastewater and generate biogas as a renewable energy source. Additionally, public education campaigns promoted hygiene practices and discouraged open defection (Africa Development Bank, 2020).

Kigali's success underscores the importance of integrating sanitation into broader urban development frameworks. The city's proactive approach has significantly reduced the prevalence of open defecation while enhancing environmental sustainability and public health outcomes.

# iv) Dhaka, Bangladesh: Addressing Sanitation in Informal Settlements

Dhaka, one of the most densely populated cities in the world, faces significant sanitation challenges due to its extensive informal settlements. To address these issues, the city partnered with non-governmental organisations (NGOs) to implement community-based sanitation projects.

One notable initiative involved the construction of communal toilets equipped with water supply, handwashing stations, and waste management systems. Community members were actively involved in the design and management of these facilities, ensuring their relevance and sustainability. Subsidies and financial support from NGOs made the project affordable for low-income residents (World Bank, 2018).

While the project improved access to sanitation for thousands of residents, challenges such as overcrowding and maintenance costs persist. The Dhaka experience highlights the need for scalable solutions and stronger municipal oversight to address sanitation in informal settlements comprehensively.

#### v) Nairobi, Kenya: Technology-Driven Sanitation Solutions

Nairobi has embraced technology-driven approaches to tackle open defecation, particularly in its informal settlements. One innovative solution is the introduction of container-based sanitation (CBS) systems, which provide portable toilets that collect waste in sealed containers.

These containers are regularly collected and transported to centralised processing facilities, where the waste is converted into fertiliser or biogas. This model, implemented by social enterprises like Sanergy, has proven effective in providing affordable and hygienic sanitation options for underserved communities (Sanergy, 2021).

The CBS approach in Nairobi addresses several challenges associated with traditional sewer systems, such as high costs and limited coverage. However, its scalability and long-term financial sustainability remain areas for further exploration.

# **Key Insights from Urban Sanitation Initiatives**

The global efforts to tackle open defecation in urban areas provide valuable insights into effective strategies and persistent challenges. These lessons underscore the importance of holistic approaches that combine governance reforms, community participation, innovative financing, and sustainable practices.

A critical takeaway is the pivotal role of community engagement in achieving lasting sanitation outcomes. Empowering local residents to take ownership of sanitation initiatives fosters a sense of responsibility and ensures solutions are culturally relevant. For instance, participatory models such as Community-Led Total Sanitation (CLTS) demonstrate how collective action can drive behavioural change and encourage the adoption of hygienic practices.

Equally important is the integration of sanitation into urban planning. Cities that prioritise sanitation infrastructure as part of their broader development strategies are better equipped to address the challenges of rapid urbanisation. By aligning sanitation goals with housing, transportation, and environmental planning, urban centres can create more cohesive and efficient systems to serve their populations.

The role of innovative financing models also emerges as a critical factor. Public-private partnerships (PPPs) and microfinance schemes have proven effective in mobilising resources for sanitation projects. These approaches not only alleviate the financial burden on municipal governments but also incentivise private sector involvement, ensuring better service delivery and facility maintenance. However, affordability must remain a focus to avoid excluding low-income populations from accessing improved sanitation.

Addressing the unique challenges of informal settlements is another essential insight. Densely populated urban slums require tailored solutions that account for their spatial constraints and resource limitations. Approaches such as communal toilets, container-based sanitation systems, and decentralised waste treatment facilities have shown promise in providing scalable and cost-effective options for underserved communities.

Finally, sustainability remains a cornerstone of successful sanitation initiatives. Ensuring the long-term viability of facilities and services requires regular maintenance, reliable funding

mechanisms, and continuous monitoring. Cities must also invest in capacity-building efforts to enhance the technical and managerial skills of local authorities, enabling them to oversee and sustain sanitation improvements effectively.

# **Recommendations for Integrated Urban Management**

Solving the complex issues of open defecation and inadequate water, sanitation, and hygiene (WASH) services in urban areas requires a robust, multi-faceted approach. The interconnected nature of sanitation challenges demands an integrated strategy that addresses governance, infrastructure, community participation, and financial sustainability. Urban management systems must evolve to prioritise sanitation as a core component of public health and sustainable development.

An integrated approach focuses on creating synergies between various stakeholders, including governments, private sector actors, community organisations, and international partners. Governance reforms are essential for establishing clear institutional roles and fostering accountability in sanitation service delivery. Equally critical is the expansion of infrastructure to meet the needs of rapidly growing urban populations, with an emphasis on inclusivity and affordability to ensure no group is left behind.

Technology-driven solutions and innovative financing mechanisms also play a pivotal role in enhancing service efficiency and scalability. By leveraging data-driven tools for monitoring and evaluation, urban authorities can optimise resource allocation and track progress effectively. Community engagement remains central to the success of any sanitation initiative, as behaviour change and local ownership are crucial for sustaining long-term improvements.

Through these integrated efforts, urban areas can move beyond reactive measures to adopt proactive and sustainable strategies that eliminate open defecation, improve public health, and enhance the quality of urban life.

#### i) Strengthening Governance and Institutional Coordination

Urban sanitation management must begin with robust governance structures and clear institutional roles. Local governments should lead sanitation initiatives, supported by state and national policies that align with urban needs. Effective coordination among agencies responsible for water supply, sanitation, waste management, and public health is essential to eliminate overlaps and address service gaps.

Governments must also enhance accountability and transparency in sanitation projects. Regular audits, public reporting, and stakeholder consultations can help ensure resources are allocated effectively and prevent mismanagement. Building institutional capacity, including technical and managerial skills, is equally critical for achieving sustained improvements in WASH services.

# ii) Investing in Infrastructure and Technology

Infrastructure development is the cornerstone of eliminating open defecation in urban areas. Municipal authorities should prioritise the construction of public and communal toilets in underserved communities, ensuring they are accessible, affordable, and gender-sensitive. Decentralised sanitation systems, such as container-based solutions or biogas toilets, can provide flexible and cost-effective options for informal settlements and densely populated areas.

The integration of technology can further enhance sanitation outcomes. Smart monitoring systems, such as sensors for detecting toilet usage or tracking waste collection, enable data-driven decision-making and improve service efficiency. Mobile applications can also facilitate citizen engagement, allowing residents to report sanitation issues and access information about available facilities.

# iii) Promoting Community Participation and Behavioural Change

Community involvement is central to the success of urban sanitation initiatives. Local residents should be actively engaged in the planning, implementation, and management of sanitation projects to ensure their relevance and acceptance. Public awareness campaigns highlighting the health and environmental benefits of proper sanitation can drive behavioural change and reduce resistance to new practices.

Educational programmes targeting children and youth can instil lifelong hygiene habits and create sanitation advocates within communities. Additionally, leveraging the influence of community leaders and traditional institutions can foster collective action and amplify the impact of sanitation interventions.

#### iv) Leveraging Public-Private Partnerships (PPPs)

Public-private partnerships offer a viable solution for addressing resource constraints and improving service delivery. By involving private sector actors in the construction, operation, and maintenance of sanitation facilities, governments can benefit from technical expertise and innovative approaches. PPPs can also introduce cost-sharing mechanisms that reduce the financial burden on municipal budgets.

However, PPP agreements must be structured to ensure inclusivity and affordability. Subsidised services for low-income populations and transparent pricing models can help prevent the exclusion of vulnerable groups while maintaining the financial sustainability of sanitation projects.

#### v) Prioritising Gender Equity and Inclusion

Sanitation initiatives must address the unique needs of women, girls, and other marginalised groups to ensure equitable access to facilities. Gender-sensitive designs, such as separate toilets for men and women and provisions for menstrual hygiene management, can enhance the safety and usability of sanitation infrastructure.

Inclusive policies should also focus on providing sanitation services to persons with disabilities, elderly residents, and migrant populations. Ensuring that no one is left behind is fundamental to achieving the goals of sustainable urban development and public health.

#### vi) Adopting Sustainable Financing Mechanisms

Securing long-term funding is crucial for maintaining and expanding sanitation infrastructure. Governments should explore diverse financing options, including dedicated sanitation funds, international aid, and local taxation. Performance-based grants from development partners can incentivise improvements in service delivery and accountability.

Microfinance schemes and revolving loan funds can empower households and communities to invest in private sanitation facilities. Ensuring that financing mechanisms are accessible and affordable is critical to scaling up sanitation interventions across urban areas.

#### vii) Integrating Sanitation into Urban Development Plans

Urban sanitation must be prioritised as a core component of broader urban development strategies. Land use planning, housing policies, and infrastructure investments should explicitly address the provision of WASH services to prevent the exclusion of underserved areas.

Collaboration between urban planners, environmental experts, and public health officials can ensure that sanitation goals align with other development priorities, such as climate resilience, waste management, and water resource conservation.

#### Conclusion

Open defecation in urban areas remains a pressing challenge that highlights the intersections of public health, governance, and urban management. Despite progress in global sanitation efforts, millions of urban residents, particularly in low- and middle-income countries, continue to face inadequate access to water, sanitation, and hygiene (WASH) services. This chapter has explored the multifaceted causes of open defecation, its profound impacts on communities, and the challenges inherent in addressing it.

The persistence of open defecation is not merely a reflection of infrastructural deficits but also of systemic governance failures and socio-economic inequalities. Weak institutional coordination, fragmented policies, and inadequate resource allocation have hindered the development and maintenance of sustainable sanitation systems. Furthermore, cultural norms, behavioural resistance, and a lack of community involvement have compounded the problem, making it difficult to achieve meaningful change.

The impacts of open defecation are far-reaching, affecting public health, environmental sustainability, and social equity. Diseases such as cholera and diarrhoea, environmental degradation, and the disproportionate burden on women and vulnerable groups underscore the urgency of addressing this issue. At the same time, the economic costs of poor sanitation, including healthcare expenditures and productivity losses, demonstrate the broader implications for urban economies and development.

The solutions to open defecation lie in adopting integrated and inclusive urban management strategies. Strengthening governance, enhancing institutional capacity, and fostering interagency coordination are fundamental steps in creating effective WASH systems. Infrastructure investments, coupled with innovative technologies such as container-based sanitation and decentralised waste treatment, offer scalable solutions for urban centres. Engaging communities in sanitation planning and promoting behavioural change are equally vital to ensuring the sustainability of these interventions.

This work has also highlighted the importance of equity and inclusivity in urban sanitation initiatives. Addressing the specific needs of marginalised groups, such as women, children, and residents of informal settlements, is critical for achieving equitable outcomes. By prioritising gender-sensitive designs, affordable services, and participatory approaches, urban areas can create a more just and accessible sanitation landscape.

The elimination of open defecation in urban areas is not only a moral and public health imperative but also a cornerstone of sustainable urban development. By committing to integrated and inclusive sanitation strategies, governments, communities, and stakeholders can transform urban environments into healthier, more liveable spaces for all residents. This

# KASHERE JOURNAL OF POLITICS AND INTERNATIONAL RELATIONS VOL. 3, ISSUE 3 JULY, 2025 ISSN Prints: 2616-1264 Online: 3027-1177

requires sustained political will, innovative solutions, and a collective commitment to addressing the root causes of sanitation challenges.

Ultimately, achieving universal access to sanitation is a shared responsibility that demands coordinated efforts at local, national, and international levels. By addressing open defecation comprehensively, urban areas can fulfil their potential as hubs of progress, equity, and sustainable development.

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