

**ADVANCE SOCIAL SCIENCE ARCHIVE JOURNAL**

Available Online: <https://assajournal.com>

Vol. 04 No. 02. October-December 2025. Page# 1194-1202

Print ISSN: [3006-2497](#) Online ISSN: [3006-2500](#)

Platform & Workflow by: [Open Journal Systems](#)

<https://doi.org/10.5281/zenodo.17505146>



**Urbanization and Its Impact on Sustainable Development: Evidence from District Rawalpindi**

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**1.0 Abstract**

*This study examines the impact of urbanization on sustainable development in District Rawalpindi. Using primary data collected through purposive sampling of 100 migrants in Shamsabad and Saddar, Rawalpindi, the research analyzes demographic characteristics, reasons for migration, living conditions, access to services, and perceptions about urbanization's effects on economic growth, quality of life, literacy and innovation. Results show that urbanization is associated with improved economic conditions, higher literacy and increased job opportunities for the majority of respondents, but also creates pressures on infrastructure and the environment. The paper presents concise summary tables of key findings, discusses implications for sustainable development, and offers policy recommendations for planned urbanization.*

*Keywords: Urbanization, Sustainable development, Migration, Rawalpindi, Economic growth, Living standards.*

**2.1 Introduction**

Urbanization is a continuing process worldwide in which people move from rural to urban areas. This process leads to higher proportions of population living in cities and is closely tied to industrialization and economic transformation. Urbanization demands new infrastructure, housing and services and changes social and economic life (Weingaertner, 2005; Long, 1998). In many developing countries urbanization proceeds rapidly, creating both opportunities (jobs, better services, innovation hubs) and challenges (pollution, informal

settlements, and strain on infrastructure). This study focuses on Rawalpindi to explore how urbanization affects sustainable development at local level.

### **2.1.1 Global Trends in Urbanization**

In recent decades, the pace of urbanization has increased rapidly, particularly in developing countries. According to Cohen (2006), Africa is experiencing the highest urban growth rate, estimated at around 67 percent, compared with other regions. This trend places enormous pressure on land, infrastructure, and natural resources. Ejaro (2009) emphasized that rapid population growth in cities contributes to environmental degradation, deforestation, waste accumulation, and high housing demand, creating complex challenges for sustainable growth.

Urbanization is not merely a demographic phenomenon but a multifaceted process that reshapes social structures and economic systems. It brings opportunities for better education, employment, and access to modern services, but it also creates issues like congestion, pollution, and social inequality. The challenge lies in balancing growth with sustainability so that urban development improves human welfare without exhausting resources.

### **2.1.2 Factors Driving Urbanization**

Several factors contribute to urbanization. Population growth is a fundamental driver, as natural increase and migration jointly expand urban populations (Stutz & Souza, 1998). Poverty is another significant factor; limited opportunities in rural areas push individuals toward cities where jobs and services are more accessible (Habitat, 1996). Improved living standards and employment prospects in urban areas further encourage migration. As Sajor (2001) stated, economic disparities between rural and urban regions make city life appear more profitable and attractive, even when wages are modest.

Environmental pressures also play a role. In many developing countries, decreasing soil fertility, land fragmentation, and inadequate water resources compel rural populations to relocate (Sajor, 2001). Thus, urbanization is driven both by “push” factors rural poverty and environmental decline and “pull” factors better amenities and economic opportunities in cities.

### **2.1.3 Concept of Sustainable Development**

Sustainable development is often defined as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs.” It involves managing resources responsibly while promoting economic growth and social equity. MediaWiki (2008) describes it as living in a way that conserves shared resources and makes protection a cultural norm. In developing countries, sustainable development requires planned industrialization, equitable resource distribution, and environmental preservation (Girardet, 1996; Hardoy et al., 2001).

Sustainable development integrates economic, social, and environmental dimensions. Hardoy et al. (2001) noted that improvement in sanitation, housing, and health facilities is essential to achieve sustainability, while Kararda and Parnell (1993) highlighted that poor living conditions and weak governance undermine these efforts.

## **2.2 Significance of the study**

Understanding how urbanization affects sustainable development helps policymakers plan cities so that economic growth does not come at the cost of environmental degradation or increased poverty. Rawalpindi, witnessing inflows of migrants and rapid urban change, provides a useful case to examine whether urbanization supports improved living standards, employment and literacy while identifying infrastructure and environmental pressures that threaten long-term sustainability.

## **2.3 Problem statement**

Rapid and sometimes unplanned urbanization in many developing contexts leads to unsustainable patterns, overuse of limited resources, environmental degradation, informal settlements and inadequate services. The problem examined here is: To what extent does urbanization in District Rawalpindi support sustainable development (economic, social and environmental), and which urban pressures threaten sustainability?

## **2.4 Hypotheses**

H1: Urbanization in Rawalpindi is associated with improved economic conditions for migrants.

H2: Urbanization increases access to education and literacy among migrants.

H3: While urbanization contributes to economic growth and innovation, it also creates infrastructure and environmental pressures that may hinder sustainable development if unmanaged.

## **3.0 Literature review**

### **3.1 Urbanization and Economic Development**

Kim (2008) viewed the growth of urban communities as the beginning of an “urban revolution,” in which concentration of trade and specialized labor fostered technological innovation and long-distance commerce. Similarly, Khan (2008) observed that the urban labor force in Bangladesh was expanding faster than the rural workforce, but job creation was insufficient. He emphasized that productive capacity and employment opportunities must grow together to achieve sustainable urbanization.

Oluwasola (2007) described cities as hubs of creativity and economic activity that stimulate cultural and industrial innovation. Akolade (2007) examined South-West Nigeria and concluded that low investment in infrastructure and poor human-capital quality hindered sustainable urban growth. His findings aligned with

Quigley (2007), who noted that while urbanization drives development, it also creates slums and social inequality in developing countries.

### **3.3 Urbanization and Environmental Challenges**

Rapid urbanization often degrades the environment. Dawam and Ebehikhalu (2007) found that uncontrolled city expansion in Nigeria caused the disappearance of rural landscapes and increased poverty through unemployment and inadequate infrastructure. Similarly, Datta (2006) argued that in India, rural-urban migration driven by poverty and globalization led to overcrowding and pollution. Alagbe (2006) reported that Lagos State faced housing shortages and infrastructural collapse, resulting in slums and illegal settlements. He stressed the need for urban upgrading instead of forced eviction.

Zhang et al. (2004) emphasized that slums, crime, and pollution widened socio-economic gaps between rural and urban zones, while Czech (2004) linked urbanization to aggressive land use and economic geography. Nsiah-Gyabaah (2003) added that although urbanization causes pollution and unemployment, it can also enhance markets and human capital when properly managed.

### **3.3 Urbanization and Sustainable Development**

Urbanization and sustainable development are closely linked. Urban areas generate most of a nation's income, innovation, and technological progress, yet unplanned expansion often leads to pollution, housing shortages, and unemployment. Svane (2005) argued that the two processes urbanization and sustainable development should be harmonized so that urban growth contributes to long-term goals of social welfare and environmental protection. Similarly, Falade (2005) warned that rapid, unplanned urbanization can result in poverty, crime, and environmental stress.

According to the United Nations (2000), by 2030 more than 60 percent of the world's population will live in cities, most of them in developing countries. Managing this transformation is crucial to avoid unsustainable urban sprawl and to ensure inclusive development. Urban areas must therefore be seen not as problems but as opportunities to achieve the Sustainable Development Goals (United Nations, 2015), particularly goals 8, 9, 11, and 13, which emphasize economic growth, innovation, sustainable cities, and climate action.

### **3.4 Social and Institutional Dimensions**

Roberts et al. (2006) highlighted that urbanization in Asia transformed lifestyles and social structures, creating both employment and new forms of inequality. They stressed that effective governance is vital to maximize the benefits of urban growth. Haider (2006) warned that rapid migration could cause youth unemployment and rising crime if planning is neglected. Eckstein and Throgmorton (2003) proposed that democratic participation and transparent governance are essential for sustainable cities.

Satterthwaite (2005) explained that urbanization mirrors economic success but requires strong local governments to ensure access to housing, sanitation, and services. When these are absent, sustainability declines. Taylor (2000) similarly noted that Nigeria's Rapid City growth demanded revisions in planning laws to accommodate rising urban populations.

#### **4.0 Theoretical framework**

This study adopts a pragmatic framework linking urbanization (measured by migration, settlement patterns and access to services) to sustainable development outcomes (economic betterment, literacy, innovation and quality of life) while recognizing mediating constraints (infrastructure, environmental pressures). The framework treats urbanization as both an engine of development (through agglomeration economies, service access and innovation) and a source of sustainability challenges when growth is unplanned.

#### **5.0 Methodology**

##### **5.1 Locale of study**

Research was conducted in Rawalpindi city in the areas of Shamsabad and Saddar.

##### **5.2 Sample size and sampling technique**

A purposive sample of 100 migrants to Rawalpindi was selected because the target population was not precisely known. Respondents were interviewed face-to-face.

##### **5.3 Data collection and pre-testing**

Data were collected through a structured questionnaire developed based on prior research instruments and adapted to the study context. Questionnaires (open and closed questions) were pre-tested on 20 respondents. Data were collected over approximately one month.

##### **5.4 Analysis**

Quantitative data were analyzed using SPSS. Findings are presented using percentage distributions and summarized tables.

#### **6.0 Results**

The survey of 100 migrants in Shamsabad and Saddar, Rawalpindi, reveals key demographic and socio-economic patterns. Most respondents are female (72%), young (53% aged 20–24), and highly educated (65% hold a graduate or master's degree). A majority are single (68%) and live in rented accommodation (71%), reflecting recent migration and housing demand.

Nearly half of the migrants (48%) originated from rural areas. Main reasons for migration include family relocation (22%), education or other reasons (23%), and employment opportunities (17%). Monthly income is concentrated between PKR 10,000–31,000, showing entry- or mid-level employment among newcomers.

Access to urban services shows a mixed picture. Most respondents prefer private hospitals and schools (62% each), citing better quality, while load shedding remains widespread—over 80% experience at least four hours daily. Telecommunication access is strong (92%), with widespread use of 3G/4G internet.

Perceptions of urbanization are overwhelmingly positive:

- I. 96% believe cities offer more job opportunities.
- II. 87% report improved economic conditions since migration.
- III. 89% agree that urbanization increases literacy and education access.
- IV. 83% view cities as centers of innovation.

These results indicate that urbanization in Rawalpindi enhances economic and social well-being but simultaneously creates infrastructure and environmental pressures, especially in housing and energy sectors.

## 7.0 Discussion

The data show a clear pattern, migrants to Rawalpindi largely young and well-educated who perceive urbanization as beneficial for livelihoods, education and innovation. High proportions report improved economic conditions after migration (87%) and overwhelmingly believe cities have more job opportunities (96%). These findings align with literature that cities concentrate economic activity, services and human capital (Todaro & Smith, 2003; Roberts et al., 2006).

At the same time, significant infrastructure and environmental challenges emerge. High rates of renting (71%) indicate recent influxes and housing pressure. Widespread preference for private health and education (62% each) suggests public services are perceived as inadequate. Load shedding affects most respondents for multiple hours per day, highlighting energy shortfalls. These structural deficiencies echo concerns in the literature that unplanned urbanization strains resources and public services and can hinder sustainability (Hardoy et al., 2001; Ejaro, 2009).

Telecommunications and internet access are positive signs of modernization (92% report good telecommunication), which support information access and economic engagement. Women's participation in urban economy is perceived positively (76% agree/SA), indicating social shifts important for household economies.

Overall, urbanization in Rawalpindi appears to deliver economic and social gains but also creates pressures (housing, energy, and environment) that must be addressed through planned urban policies to ensure long-term sustainable development.

## 8.0 Conclusion

This study finds that urbanization in District Rawalpindi is strongly associated with improved economic conditions, higher literacy, increased job opportunities and innovation, as perceived by migrants. However, benefits are tempered by infrastructure constraints (housing pressure, load shedding), reliance on private services, and environmental risks. Sustainable development in the city will depend on planning and investment that expand public services, energy supply, housing and environmental protections while retaining the economic advantages of urban agglomeration.

## 8.1 Recommendations

Based on findings and respondents' concerns, the study recommends:

1. **Planned urbanization:** Implement urban planning frameworks to guide housing, land use and infrastructure expansion.
2. **Public service improvements:** Strengthen government hospitals and schools to reduce over-reliance on private providers.
3. **Energy provision:** Invest in energy generation and distribution to reduce load shedding.
4. **Affordable housing:** Promote policies and projects to increase affordable housing supply for migrants.
5. **Environmental measures:** Encourage urban greening and pollution controls (plantations, emissions limits).
6. **Job creation & skills:** Support local industries and vocational programs so urbanization translates into sustainable employment.
7. **Governance & monitoring:** Improve municipal governance, urban environmental monitoring, and inclusive planning processes.

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