The Geography of Crime: Implications for Sustainable Development in the 21st Century

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Abstract:

This study examines how crime influences sustainable development, with particular attention to its spatial dynamics. Employing an interdisciplinary lens that blends insights from criminology, geography, and sustainability science, the paper surveys existing literature on crime's geographic dimensions and their relevance to long-term development goals. It features Jaipur as a case study an urban center grappling with persistent criminal activity—and assesses the consequences of such crime on environmental integrity, social stability, and economic progress. The analysis also highlights the role of geospatial technologies, particularly Geographic Information Systems (GIS), in understanding crime distribution and crafting targeted interventions.

Findings underscore that the spatial patterns of crime must be central to sustainable policy formulation. The research advocates for embedding preventive strategies—such as thoughtful urban design, grassroots policing, and inclusive social initiatives—into developmental frameworks to improve safety and overall wellbeing. Ultimately, the paper demonstrates that an integrative, crossdisciplinary methodology is essential for navigating the complex socio-spatial challenges of the modern era.

Keywords: Crime, Geography, Sustainable Development, Spatial Patterns, Technology, GIS, Crime Prevention

Introduction

The 21st century is witnessing an intricate interplay of environmental degradation, social fragmentation, and economic volatility—challenges that demand holistic, innovative, and sustainable responses. Within this context, sustainable development has gained prominence as a guiding paradigm aimed at balancing economic growth, social equity, and environmental stewardship to secure the well-being of current and future generations. Yet, translating this vision into practice is far from straightforward. It necessitates a multidisciplinary approach that cuts across conventional boundaries and integrates diverse domains of knowledge.

Among the many obstacles to sustainable development, crime stands out as a deeply entrenched and complex issue that undermines social stability, economic progress, and ecological safety. Crime not only erodes public trust and restricts access to opportunities but also diverts critical resources away

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from development priorities. Importantly, crime is not randomly distributed across space; its occurrence often follows identifiable spatial patterns shaped by underlying socio-economic disparities, environmental vulnerabilities, and urban design flaws.

Hence, understanding the geography of crime—the spatial and environmental context in which criminal behavior unfolds—becomes essential. This spatial perspective enables researchers and policymakers to identify high-risk zones, decode contributing factors, and design place-specific interventions. By analyzing the spatial dynamics of crime, it becomes possible to craft development strategies that are not only preventive in nature but also more responsive to the nuanced realities of communities. Addressing crime through this geographical lens is therefore a vital step toward achieving inclusive and resilient forms of sustainable development.

In this study, we delve into the spatial dimensions of crime and examine how they intersect with the broader goals of sustainable development in the contemporary era. The analysis adopts an interdisciplinary framework that draws upon the theoretical and practical insights of criminology, human geography, and sustainability science. This integrative approach enables a comprehensive investigation into how the spatial distribution of crime affects environmental conditions, disrupts social systems, and hampers economic resilience.

The paper is structured to first engage with existing scholarly literature that explores the interplay between crime geography and sustainable development. This review sets the foundation for the subsequent empirical inquiry. Following this, we present a focused case study of Jaipur—a rapidly growing urban center in India that has grappled with persistent crime-related challenges. Through this lens, we assess how various forms of crime influence the city's ecological balance, civic life, and economic potential.

Further, the study underscores the growing importance of spatial technologies, particularly Geographic Information Systems (GIS), in understanding and addressing crime. We discuss how GISbased tools are being utilized to map crime hotspots, identify spatial correlations with socioenvironmental variables, and support the design of targeted, evidence-based interventions. By doing so, the paper emphasizes the critical need to integrate spatial analysis and technological innovation into policy frameworks aimed at fostering safer, more inclusive, and sustainable urban environments.

Literature Review:

In recent years, the subfield of criminal geography has gained considerable academic traction, primarily due to its relevance in understanding the spatial dynamics of crime and its broader implications for sustainable development. Criminal geography focuses on the analysis of how crime is distributed across space and investigates the underlying environmental, social, and economic factors that influence criminal activity. This spatial perspective moves beyond individual motivations and instead emphasizes how place, context, and geographic inequalities shape crime patterns.

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The inherently interdisciplinary character of criminal geography allows it to integrate diverse theoretical and methodological approaches from criminology, geography, sociology, and urban studies. By doing so, it provides a more holistic understanding of the relationship between crime and the sustainability of human settlements. As urbanization accelerates and socio-spatial disparities deepen, understanding where and why crimes occur becomes increasingly important for designing effective policy interventions that promote safety, resilience, and social justice.

The study of crime geography reveals that criminal activity is rarely random; instead, it is often concentrated in specific urban pockets influenced by variables such as income inequality, inadequate infrastructure, and exclusionary urban planning. One foundational perspective within this field is the **social disorganization theory**, which posits that crime is more prevalent in neighborhoods marked by poverty, weak social networks, and institutional breakdowns. Areas lacking cohesive community structures and support systems tend to witness higher crime rates, as evidenced by Bursik's (1988) empirical work linking socio-economic deprivation with criminal incidence in urban centers. These findings have since been corroborated by numerous studies, reinforcing the importance of examining crime through a spatial and socio-economic lens.

Urban form and physical design have long been recognized as critical determinants of crime patterns within cities. The spatial arrangement and characteristics of the built environment can either facilitate criminal opportunities or serve as deterrents. For instance, poorly lit alleys, isolated pedestrian pathways, and ambiguous public-private boundaries can encourage criminal behavior. Conversely, thoughtful urban design—emphasizing open visibility, active street life, and community-oriented spaces—can foster natural surveillance and enhance informal social control mechanisms within neighborhoods.

This relationship forms a cornerstone of **environmental criminology**, which posits that crime is not only shaped by social conditions but also by tangible environmental cues. According to Brantingham and Brantingham (1995), features such as street lighting, the density and type of vegetation, and the layout of public spaces significantly influence the likelihood and spatial concentration of crime. Their work illustrates how environmental elements can either obscure illicit behavior or promote a sense of shared vigilance, thus altering the geography of crime.

Furthermore, the consequences of crime extend well beyond immediate victimization; they generate ripple effects that compromise long-term development objectives. Persistent crime can erode public confidence, discourage private investment, and lead to capital flight, thereby weakening local economies. On a social level, communities afflicted by high crime rates often experience diminished trust, declining social cohesion, and the marginalization of vulnerable groups. Environmentally, crime can exacerbate urban decay, hinder the equitable use of public spaces, and contribute to resource inefficiencies by diverting funds toward enforcement rather than sustainable infrastructure.

In sum, both the structural design of urban environments and the broader impacts of crime play a

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pivotal role in shaping the trajectory of sustainable urban development. Addressing these interlinked factors requires a comprehensive strategy that incorporates spatial planning, community engagement, and preventive policy frameworks.

In response to the growing recognition of crime's impact on sustainable development, scholars and practitioners have proposed a wide array of strategies aimed at addressing its root causes through spatial and social interventions. One of the most prominent approaches focuses on urban design as a preventive tool. By reconfiguring the physical environment to enhance natural surveillance, promote social interaction, and reduce opportunities for criminal behavior, cities can proactively reduce crime incidence. This includes the creation of accessible public spaces, well-lit streets, and integrated transport networks that improve visibility and reduce isolation in urban neighborhoods.

Complementing physical redesign, a second approach emphasizes the role of community-based crime prevention programs. These interventions seek to address the structural and socio-economic conditions—such as poverty, unemployment, and marginalization—that often drive criminal behavior. By involving local communities in identifying vulnerabilities and co-developing solutions, such programs foster social cohesion and empower residents to take ownership of their environments. Community policing, youth engagement initiatives, and neighborhood revitalization efforts are among the strategies widely endorsed in this context.

Technological advancements, particularly in geospatial analysis, have also transformed the way crime is studied and addressed. Geographic Information Systems (GIS) have become indispensable tools in the field of criminal geography. Through GIS, researchers and law enforcement agencies can identify crime hotspots, visualize spatial trends, and correlate criminal activity with environmental or socioeconomic variables. These insights enable the formulation of targeted, evidence-based interventions that are not only more efficient but also tailored to the unique needs of each locality. By applying GISbased analytics, policymakers can optimize resource allocation and monitor the effectiveness of urban safety initiatives in real time.

Empirical studies from various global contexts further validate these integrated approaches. For instance, Wieskotten et al. (2019) investigated how environmental variables contribute to crime prevalence in urban zones, while Ombeni and Kweka (2021) analyzed spatial crime patterns in Dar es Salaam, revealing the role of informal settlements in shaping criminal vulnerability. Similarly, Huxley et al. (2020) demonstrated that the presence of green spaces significantly correlates with lower crime rates, emphasizing the dual benefit of urban greenery for both ecological health and public safety. Such studies underscore the importance of interdisciplinary solutions that fuse spatial design, community engagement, and technological innovation to advance sustainable development goals.

Further reinforcing the complex interplay between crime and sustainable development, contemporary research has increasingly emphasized the need to address the socio-economic determinants of criminal behavior. Structural factors such as income disparity, chronic

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unemployment, and social exclusion are repeatedly cited as core contributors to crime across diverse geographical settings. For example, Kruithof et al. (2021) conducted a comprehensive study in South Africa, revealing a strong correlation between income inequality and elevated crime rates. Their findings suggest that economic disparities not only foster resentment and social unrest but also limit access to legitimate livelihood opportunities, thereby pushing individuals toward illegal activities.

Similarly, Abimbola and Fawole (2021) examined unemployment-driven crime in Nigeria, highlighting how joblessness disproportionately affects youth populations and heightens their vulnerability to criminal recruitment and deviant behavior. These studies collectively underscore the argument that without targeted efforts to reduce economic inequalities and expand access to employment, crime will remain a persistent barrier to achieving sustainable and equitable development.

In addition to economic factors, demographic pressures such as urbanization and population growth have also been linked to rising crime rates, particularly in rapidly expanding cities. Research by Bock and Sulley (2019) and Kodak et al. (2020) points to the fact that unplanned urban expansion often results in overstretched infrastructure, limited public services, and unregulated informal settlements. These conditions contribute to a breakdown in social order and create environments where crime can flourish. The absence of effective governance, coupled with spatial segregation and exclusion, further exacerbates the problem.

Addressing these multifaceted challenges necessitates a commitment to sustainable urban development practices. This includes promoting inclusive economic policies, strengthening urban infrastructure, ensuring equitable access to basic services such as education, housing, and healthcare, and fostering participatory governance. By embedding social equity and spatial justice into urban planning processes, cities can mitigate crime risks and pave the way for more resilient and sustainable futures.

Public transportation has emerged as a key component of sustainable urban development, not only for its environmental and mobility benefits but also for its potential to influence crime patterns. Empirical research suggests that well-connected and accessible transit systems can enhance socioeconomic opportunities, particularly by facilitating access to education, employment, and essential services for low-income and marginalized populations (Liu et al., 2021; Lin & Wang, 2020). By reducing reliance on private vehicles and fostering greater connectivity across urban spaces, efficient public transport can mitigate urban isolation—often a precursor to criminal activity. However, the extent to which transit systems can contribute to crime reduction is largely dependent on their spatial reach, frequency, safety, and inclusivity. Poorly designed or inadequately maintained networks may inadvertently foster crime by creating neglected or unsupervised transit zones.

Environmental factors also play a crucial role in shaping crime dynamics within urban settings. A growing body of literature has examined how natural and built environments can either deter or

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encourage criminal behavior. Studies by Kondo et al. (2020) and Huxley et al. (2020) show that urban green spaces—such as parks, gardens, and recreational zones—serve multiple preventive functions. These areas provide spaces for positive social engagement, promote mental and physical well-being, and enhance natural surveillance by encouraging regular community presence. On the other hand, degraded environments characterized by pollution, poor sanitation, and deteriorating infrastructure can reinforce cycles of deprivation. Lalonde et al. (2021) argue that environmental hazards like air and water pollution disproportionately affect disadvantaged populations, deepening socio-economic divides and indirectly contributing to conditions conducive to crime.

Technological interventions have also gained prominence in urban safety discourse, especially in the realm of surveillance and spatial monitoring. Tools such as Closed-Circuit Television (CCTV) systems are increasingly being deployed in cities worldwide to deter and document criminal activities. Research by Lammersen et al. (2021) highlights the effectiveness of such surveillance technologies in lowering crime rates by enhancing deterrence and improving police responsiveness. Nonetheless, their deployment is not without controversy. Ethical concerns regarding individual privacy, data security, and the potential for misuse must be carefully weighed, especially when integrated into broader sustainable development frameworks. Ensuring that technological solutions uphold principles of transparency, accountability, and civil liberties is essential for their responsible and equitable application.

Scholarly research continues to affirm that the relationship between crime and sustainable development is far from linear or universal; rather, it is deeply shaped by localized contexts, socio-political conditions, and environmental variations (Birch & Newman, 2019). This complexity necessitates a nuanced and adaptive approach to policy formulation—one that avoids one-size-fits-all solutions and instead tailors interventions to the specific dynamics of each community. Effective crime prevention strategies must consider the unique interplay of social structures, economic disparities, cultural norms, and environmental challenges within a given region. Only by integrating these variables into the policy-making process can interventions be both relevant and impactful.

Moreover, sustainable crime prevention policies must embody principles of inclusivity and democratic participation. Community involvement—particularly from marginalized and vulnerable groups—is essential to ensure that interventions are grounded in lived experiences and address real-world needs. Policies that are top-down or technocratic in nature often fail to generate long-term change, especially when they overlook local voices or fail to build community trust. Sustainability, in this context, extends beyond environmental stewardship to encompass social justice, equity, and institutional accountability.

In summary, the growing body of literature on criminal geography underscores the significant threats crime poses to sustainable development. Spatial patterns of crime—whether concentrated in informal settlements, poorly lit transit corridors, or socio-economically marginalized zones—demand

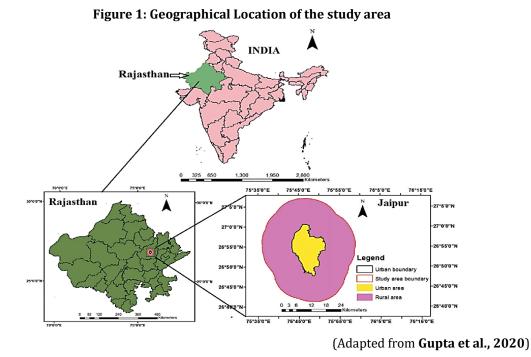
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interdisciplinary analysis and cross-sectoral collaboration. Drawing upon criminology, urban planning, and spatial science, sustainable solutions must address foundational issues such as flawed urban design, socio-economic exclusion, and limited access to basic services. Importantly, the strategic application of technological tools like Geographic Information Systems (GIS) has proven to be a transformative asset. GIS allows for the mapping of crime clusters, identification of risk-prone zones, and development of targeted, data-driven policies. As such, integrating spatial intelligence with inclusive planning can significantly enhance the resilience, safety, and sustainability of urban environments.

Case Study: Jaipur – Mapping Crime and Sustainability Challenges

The city of Jaipur serves as a compelling case for examining the spatial dynamics of crime and their implications for sustainable urban development in the Global South. As the capital of Rajasthan, Jaipur is a rapidly expanding metropolitan hub with an estimated population of over 3.1 million. Like many urban centers in developing nations, it grapples with a dual burden: the pursuit of sustainable development amid rising socio-economic inequalities and growing crime rates.



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In recent decades, Jaipur has witnessed significant demographic expansion, marked by rapid population growth and extensive urban sprawl. This uncontrolled urbanization has strained existing infrastructure and public services—particularly in low-income and peripheral zones. The mismatch between population growth and service delivery has created fertile ground for a variety of urban challenges, with crime emerging as a prominent and persistent threat. Vulnerable communities— especially those residing in informal settlements—often suffer from inadequate access to water, electricity, sanitation, and secure housing, all of which compound their exposure to criminal activity.

Crime in Jaipur is not uniformly distributed across the city but tends to cluster in spatially distinct hotspots. These high-risk zones are shaped by a complex interplay of socio-economic deprivation, environmental neglect, and governance gaps. Factors such as chronic unemployment, fragmented urban planning, and weak policing capacity contribute to localized crime intensification. Moreover, poorly lit streets, congested neighborhoods, and lack of community surveillance exacerbate safety concerns.

The city's experience underscores a critical reality: the geography of crime is intrinsically linked to broader developmental deficits. Tackling crime in Jaipur thus requires more than reactive policing; it calls for integrated interventions that address structural inequalities, enhance urban infrastructure, and promote participatory governance. Understanding the spatial logic of crime—why it manifests where it does—is essential for crafting strategies that not only reduce crime but also foster long-term resilience and sustainable urban futures.

The spatial distribution of crime in Jaipur exhibits clear patterns of geographic concentration, with specific pockets of the city emerging as persistent hotspots. These clusters are not random but are closely linked to a matrix of interrelated socio-economic and environmental variables. Areas marked by widespread poverty, high population density, and insufficient access to essential services—such as clean water, sanitation, and electricity—often report elevated crime rates. Additionally, deficiencies in urban design, such as poorly planned neighborhoods, lack of communal infrastructure, and inadequate lighting, create conditions that facilitate criminal activity. Compounding these structural issues is the limited capacity of law enforcement in many of these zones, which diminishes deterrence and response effectiveness.

Recognizing these challenges, the city administration of Jaipur has initiated a variety of strategic interventions aimed at curbing crime while advancing sustainable urban development. These efforts have focused particularly on high-risk localities, including informal settlements and economically marginalized neighborhoods. Key measures include the implementation of community-based crime prevention programs that seek to foster trust between residents and local authorities. These initiatives emphasize social rehabilitation and address root causes such as unemployment, youth disengagement, and lack of educational opportunities.

Urban planning reforms have also been undertaken as part of a broader preventive strategy. The city

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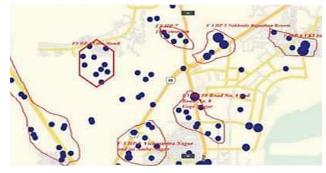
has invested in the development of inclusive public spaces—such as parks, plazas, and community centers—that enhance social cohesion and passive surveillance. Improvements in street lighting and expansion of public transportation infrastructure have further contributed to making neighborhoods more accessible and secure. Together, these measures reflect a shift from reactive crime control to proactive urban management, grounded in the principles of sustainability, equity, and resilience.

A noteworthy advancement in Jaipur's crime prevention strategy has been the integration of geospatial technology into policing practices. Law enforcement agencies in the city have increasingly adopted **Geographic Information System (GIS)** tools to enhance their capacity for real-time crime monitoring and spatial analysis. One of the key innovations in this domain is the deployment of a specialized software known as *Crime Mapping and Hotspot Analysis (CMHA)*.

This GIS-based system enables authorities to visualize and track spatial patterns of criminal activity with greater precision. By systematically mapping crime incidents, the software identifies zones of high vulnerability—often referred to as crime hotspots—where offenses tend to recur with greater frequency. This allows police departments to allocate resources more efficiently, deploy patrol units strategically, and implement preventive measures tailored to specific risk zones. Additionally, the spatial database created through this system facilitates trend analysis over time, supporting both tactical responses and long-term planning.

The application of such technology reflects a shift toward data-driven and spatially intelligent policing. Rather than relying solely on reactive measures, GIS tools empower decision-makers to anticipate potential crime surges and address root causes proactively. By bridging the gap between spatial science and public safety, the integration of CMHA into Jaipur's policing toolkit marks a critical step toward building safer, smarter, and more sustainable urban environments.

Figure 2: Screenshot from Crime Mapping and Hotspot Analysis (CMHA) Software



(Adapted from The Times of India (https://timesofindia.indiatimes.com/city/jaipur/software-maps-crime-data-helps-cops-take-preventive-steps/articleshow/58465173.cms)

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The adoption of Geographic Information Systems (GIS) in Jaipur has played a transformative role in the city's efforts to understand and address crime through a sustainable development lens. This technological intervention has enabled authorities to systematically map and analyze crime hotspots, revealing spatial patterns that would otherwise remain obscured. By layering environmental, demographic, and infrastructural data, GIS allows planners and law enforcement agencies to identify underlying contributors to crime—such as poorly lit streets, proximity to abandoned structures, or socio-economically vulnerable neighborhoods. This capacity for spatial diagnostics has led to the creation of precise, evidence-based interventions that directly target areas with the highest risk.

The outcomes of this approach have been noteworthy. Through GIS-enabled strategies, the city has been able to implement proactive policing, refine patrol routing, and inform urban planning policies aimed at crime deterrence. The technology has thus proven integral not only in reducing crime rates but also in supporting broader goals of social equity, urban resilience, and sustainable development.

In conclusion, the case of Jaipur illustrates the crucial nexus between spatial analysis, urban governance, and sustainable development. While the city has faced considerable challenges related to crime and unplanned urbanization, it has made significant strides through the integration of multidisciplinary strategies. By combining insights from criminology, human geography, and sustainable development studies, Jaipur has managed to address the structural drivers of crime more holistically. These efforts underscore the importance of place-based, systems-oriented thinking in contemporary urban crime prevention.

Conclusion

The spatial dimensions of crime pose critical challenges to achieving sustainable development in the 21st century. Crime affects not only the immediate safety and well-being of individuals but also undermines social trust, impedes economic activity, and contributes to environmental degradation. Recognizing the spatial logic of criminal behavior—where and why crime occurs—is essential for designing development strategies that are equitable, effective, and enduring.

A multidisciplinary approach that synthesizes criminology, geography, urban planning, and sustainability science is vital for unpacking the complex roots of crime. This integrative framework allows for a deeper understanding of how social inequalities, environmental neglect, and flawed urban design collectively create conditions conducive to criminal activity. Addressing these root causes can generate ripple effects—strengthening social cohesion, revitalizing neighborhoods, and improving the quality of life for all urban residents.

Technological innovations, particularly Geographic Information Systems (GIS), offer powerful capabilities in this regard. GIS enables practitioners to move beyond reactive measures by facilitating the spatial visualization of crime, identifying environmental correlates, and crafting data-driven

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interventions. As such, it serves not merely as a policing tool but as a strategic asset in the pursuit of sustainable, inclusive, and resilient urban futures. The integration of GIS into development planning exemplifies how smart technologies, when used responsibly and ethically, can advance the broader goals of human security and sustainable development.

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