




Emergence and Evolution of Alexandra Township in Johannesburg

A Study on the Development of a Mixed Settlement

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Abstract

The emergence and evolution of the township of Alexandra in Johannesburg, South Africa, is a significant chapter in the urban history of the region. As a distinctive mixed settlement,



it represents the complexities and challenges associated with the development of urban spaces in a segregated society. This paper explores the origins and development of Alexandra and examines the historical background of the township and how it has transformed over time. It investigates the historical, social, economic, and cultural factors that have shaped this vibrant community. By analysing its early formation, urban planning, and subsequent changes, this study aims to understand the dynamics that contribute to its growth, transformation, and challenges. The growth of Alexandra as a mixed settlement has outpaced government attempts to improve infrastructure, provide sufficient housing and services, and mitigate disasters and vulnerabilities. A multidisciplinary approach, combining archival research, interviews, and spatial analysis, offers a comprehensive examination of the complexities surrounding this settlement. The findings provide insight into the difficulties and opportunities that can inform future policies and interventions aimed at addressing the challenges faced by Alexandra and promoting sustainable development. A fundamentally new strategy is imperative.

Keywords: Alexandra Township, Johannesburg, mixed settlement, emergence, evolution, development.

Introduction

The emergence and evolution of the township of Alexandra in Johannesburg, South Africa, is a significant chapter in the urban history of the region (De Satgé & Watson, 2018). As a distinctive mixed settlement, it represents the difficulties and challenges associated with the development of urban spaces in a segregated society (Cirota, 2017). Alexandra exists in a precarious grey area; balancing eviction, devastation, and death on one side, and legality, safety, and full participation on the other (Yiftachel, 2009). Typically, Alexandra exists outside the administrative boundaries where basic services can be readily provided (Myers, 2021). Paradoxically, despite being part of the urban system, these emerging settlements in South African cities experience marginalisation and detachment from the formal metropolis, which contributes to socio-spatial isolation

and economic inequalities, contrary to the goals of creating an inclusive and liveable city (Matamanda, 2020). The problem of the “development of a mixed settlement” revolves around understanding the complex historical, social, and economic dynamics that have shaped the development of Alexandra.

Studies conducted in the past on informal urbanism in Johannesburg, South Africa, have tended to focus more on efforts to upgrade informal settlements (Cirolia et al., 2017; Delius, 2019) without examining their emergence and evolution. This study explored the development of Alexandra as a mixed settlement type in order to provide a comprehensive understanding of its historical, social, economic, and cultural dimensions. By examining the factors that have influenced its growth and transformation, this paper seeks to shed light on the challenges and opportunities faced by this vibrant community. Conducting a historical study of Alexandra as a mixed settlement type is essential because it offers a multifaceted view of urban development in a segregated society, provides valuable lessons for urban planning, and respects the community’s history and experiences. This research can contribute to more inclusive and sustainable urban development in South Africa and serve as a valuable reference for similar contexts worldwide.

Emergence and Evolution Concept of a Mixed Settlement Development

The emergence and development of a mixed settlement involve the development of areas where different types of land uses and residential groups co-exist. This process typically unfolds over time, and is influenced by various social, economic, and political factors.

A Brief Overview of the Concept

Emergence is a concept that refers to a complex process that is influenced by the interactions between diverse individuals and groups (Goldstein, 2011). The emergence of a mixed settlement often develops gradually or is planned to accommodate a diverse population and land uses (Van Oostrum, 2021). These

settlements may begin as small informal communities that grow over time or are intentionally designed to promote mixed use and integration (Gao & Lim, 2023). Such areas might include a mix of residential, commercial, industrial, and recreational spaces that attract people from various backgrounds and income levels (Generalova et al., 2018).

Emergence can be understood from two perspectives: weak emergence and strong emergence. Weak emergence is evident in the development of social networks, economic activities, and cultural practices, which lead to shared norms, traditions, and informal institutions (Wilson, 2016). These occurrences are observable and analysable, which illustrates the dynamic nature of social life in a mixed settlement (Gao & Lim, 2023). In contrast, strong emergence is present in the development of collective identity and social cohesion, despite the diversity of its residents (Wilson, 2016). This emergent quality is characterised by shared experiences, values, and aspirations that shape the collective identity of the community. It cannot be reduced to its parts, as it arises from the interactions between individuals from different backgrounds; each contributing to the unique fabric of a mixed settlement's social landscape (Generalova et al., 2018).

Emergence is a crucial factor in shaping the dynamics and identity of a mixed settlement such as Alexandra, which reflects the complex and adaptive nature of community life in such environments.

On the other hand, evolution is the process through which living organisms change over time, which leads to the diversity of life on Earth (Hansen et al., 2021). Evolution is driven by mechanisms such as natural selection, genetic drift, mutation, and gene flow, which collectively result in the adaptation and modification of species to their environments (Kristensen et al., 2020). However, evolution also encompasses the social and cultural changes that occur in diverse communities, such as mixed settlements, which allow researchers to gain insight into the complex interactions and transformations that occur in urban environments (Brooks et al., 2018). This process is

not limited to biological changes but also includes shifts in social norms, cultural practices, economic structures, and community dynamics (Brooks et al., 2018). Cultural exchange and integration are key aspects of social evolution in mixed settlements, as individuals from different backgrounds interact and co-exist, often blending traditions, languages, and customs (Bogumil & Chase-Dunn, 2021). This can lead to the emergence of new cultural identities and expressions. However, the evolution of a mixed settlement occurs when it undergoes changes in response to broader socio-economic trends or shifts in local policies (Brooks et al., 2018). These changes may involve demographic shifts, economic growth or decline, infrastructure development, and alterations to the built environment. Over time, the area's original character transforms to reflect new patterns of land use, residential preferences, or cultural influences (Kristensen et al., 2020).

Social structures and institutions undergo changes as the population grows, which leads to the emergence of new social organisations, community networks, and governance structures (Bogumil & Chase-Dunn, 2021). These changes can reflect shifts in power dynamics, social hierarchies, and collective decision-making processes (Brooks et al., 2018). Economic evolution is also a significant factor in the development of mixed settlements; as industries change, opportunities arise, and socio-economic conditions fluctuate. This can impact employment patterns, income distribution, access to resources, and the overall economic well-being of the community (Bogumil & Chase-Dunn, 2021).

Furthermore, the concept of the emergence and evolution of mixed settlements offers valuable insight into how cities and towns develop, adapt, and respond to changing circumstances. It underscores the importance of inclusive planning and governance to ensure that these areas support the well-being of all residents and contribute to broader urban development goals.

In addition, a mixed settlement is a residential area where individuals from diverse social, economic, cultural, and ethnic backgrounds co-exist (Ballard & Rubin, 2017). It is characterised

by the presence of people with varying socio-economic statuses, ethnicities, religions, and cultural practices in the same geographic space (Bogumil & Chase-Dunn, 2021). In a mixed settlement, residents interact with one another, share public spaces, and may have access to a range of amenities and services (Eller et al., 2021). Mixed settlements can arise due to historical circumstances, migration patterns, urbanisation, or intentional planning efforts aimed at promoting diversity and integration (Dovey et al., 2020). They can be found in both urban and rural settings and can range in scale from neighbourhoods in a city to entire towns or districts (Gibbs et al., 2018). Indeed, diverse populations characterise many urban areas around the world, and this diversity is not unique to Alexandra. However, when Alexandra is referred to as a “mixed settlement” in a special context, it often highlights several specific factors that make it unique within the South African and Johannesburg contexts.

Factors That Influence the Development of Mixed Settlements

Several factors shape the emergence and evolution of mixed settlements. These include urbanisation, migration, socio-economic inequality, housing policies, and investment patterns. The interplay of these factors determines the nature and pace of change in these areas.

Challenges and Opportunities

Mixed settlements can present both challenges and opportunities for residents and local authorities. On the one hand, they may face issues such as overcrowding, inadequate infrastructure, and social tensions that arise from diverse populations. On the other hand, they can foster social cohesion, economic vitality, and cultural exchange, which promote more equitable and sustainable urban development (Ma et al., 2022).

What efforts have been made so far to conduct a historical study or research on the emergence and evolution of a mixed settlement? There are several local and international historical studies of townships similar to Alexandra, Johannesburg, which is a mixed settlement type. Some examples include Soweto, one of the most well-known townships in South Africa, which

has a rich history that has been extensively studied. Research has focused on its origins, the role it played during apartheid, and its development in the post-apartheid era. District Six in Cape Town, an inner-city residential area, was subject to forced removal during apartheid, with a focus on the displacement of its racially diverse inhabitants. Studies have examined its history, cultural significance, and ongoing efforts for land restitution. Dharavi, one of the largest slums in Asia located in Mumbai, India, has been studied in terms of its growth, economic activity, and social organisation. Research has also explored efforts to improve living conditions and provide better infrastructure in Kibera, Nairobi. As one of the largest urban slums in Africa, Kibera has been studied for its history, social dynamics, and grassroots initiatives to improve quality of life. Research has investigated the impact of government policies and international aid on the community.

These examples demonstrate that studies on mixed settlement types, such as Alexandra in Johannesburg, span various regions, each with unique historical contexts and trajectories. They provide valuable insight into the challenges and opportunities faced by these communities, as well as the broader social, political, and economic forces that shape them. To date, considerable literature has examined the emergence and evolution of mixed settlements on both local and international scales. However, there remains a notable gap in research that specifically addresses the emergence and evolution of Alexandra at the local level, considering its status as a mixed settlement. This paper thus explores the historical, social, economic, and cultural influences that have moulded the dynamic community of Alexandra. Through an examination of its inception, urban development, and subsequent shifts, this paper seeks to explain the multifaceted changes driving its development and transformation, with the aim to extract insights to guide future research.

When researching evolution in mixed settlements such as Alexandra, numerous questions may arise, as shown in Table 1.

Table 1: Research Aim, Questions, and Objectives

Aim	
To understand the historical, social, and economic factors that have influenced the development and evolution of Alexandria as a mixed settlement.	
Research questions	Research objectives
1. What are the historical factors and policies that have led to the establishment and development of Alexandria?	To identify the historical factors and policies that contributed to the establishment and development of Alexandria.
2. How have the patterns of migration, growth of population, and social transformations changed or shaped Alexandria over time?	To investigate migration patterns, population growth, and social changes in Alexandria from its inception to the present.
3. What are the economic activities and opportunities in Alexandria?	To assess the economic activities and opportunities in Alexandria and its impact on the development and transformation of Alexandria.
4. How have infrastructure development and housing in Alexandria addressed the needs of its residents?	To examine the development and challenges of infrastructure and housing in Alexandria, and their effects on residents' quality of life.
5. What role have local and national government policies played in the development of Alexandria?	To evaluate the influence of government policies on the development and governance of Alexandria.
6. How have issues of integration and segregation evolved in Alexandria?	To explore the dynamics of integration and segregation in Alexandria.

Table 1 clearly outlines the research aim, questions, and objectives to facilitate a comprehensive understanding of the study's focus areas. The research aim, questions, and objectives provide a starting point for examining the multifaceted dynamics of evolution in mixed settlements and addressing issues related to historical factors and development, social and demographic changes, economic development, infrastructure development and housing, government policies, and changes

in integration and segregation in Alexandra. Through interdisciplinary research and collaboration, scholars can gain a deeper understanding of the complex and dynamic nature of mixed settlements and contribute to the development of inclusive, sustainable, and equitable urban environments.

Methodology and Approach

This study examined the historical development and growth of the Alexandra township in Johannesburg, South Africa, using a multidisciplinary approach. Conducted between June 2023 and December 2023, the research focused on the township's historical development and growth. The settlement was chosen due to its proximity to the city and its historical significance during the apartheid era as one of the oldest townships in Johannesburg and South Africa. The research methodology involved collecting and examining historical records, documents, and various sources to reconstruct the past. Quantitative surveys were conducted with 40 households, and interviews were held with long-time residents and community leaders who have witnessed or were involved in the township's development. Data were gathered on community perceptions, needs, and preferences related to past development initiatives. A focus group was conducted with eight to 10 participants to validate the findings and gather additional insights. These personal accounts provided unique insights, memories, and perspectives that enriched the historical narrative. The research methodology ensured the validity and reliability of the results.

Historical Background of Alexandra: Early Origin and Establishment

This section provides a historical account of Alexandra by tracing its origins from precolonial times to the present day. It explores the key events and influences that shaped its development, and highlights the impact of colonialism, urbanisation, and apartheid policies.

Precolonial Era and Early Settlements

Understanding the historical factors that have shaped the community provides valuable insight into its current social, economic, and spatial dynamics. The history of Alexandra in South Africa stretches back to precolonial times when indigenous communities inhabited the area, continuing through to the late 19th century during the colonial period. It was initially established as a township for Black South Africans and other non-white population groups.

Brief Overview of the Historical Timeline of Alexandra

Figure 1 illustrates a brief overview of Alexandra, with a rich history that can be traced back to the precolonial era, when indigenous communities initially utilised the land. South Africa's colonial and apartheid history has left a profound impact on its residents and the land's development, which significantly shaped the subsequent development of the township.

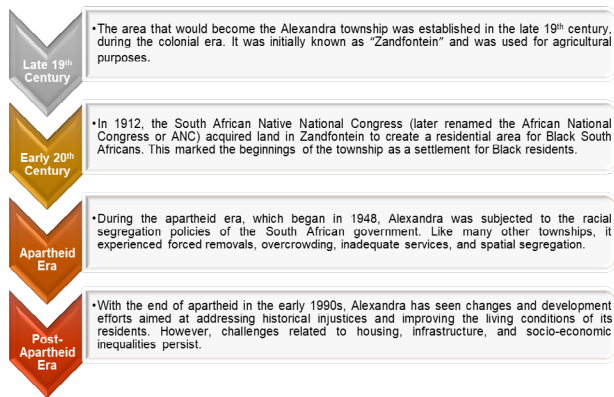


Figure 1: Overview of the Historical Timeline of Alexandra Township. Source: <http://www.southafrica.net/za/en/articles/entry/article-southafrica.net-the-battle-of-blaauwberg>

Emergence and Evolution

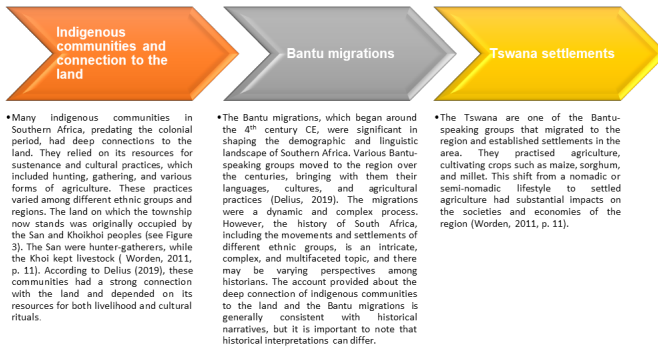


Figure 2: The Context of South African History



Figure 3: The Khoisan People. Source: Dreamstime (2023)

Colonial Influence, Land Dispossession, and Urbanisation

It is crucial to note and understand that the development and emergence of Alexandra were heavily influenced by colonial and apartheid policies that aimed to enforce racial segregation and to control the movement and opportunities available to Black South Africans. Furthermore, the development of Alexandra has been profoundly shaped by a series of key events and influences throughout its history, including the impacts of colonialism, urbanisation, and apartheid policies on the growth and transformation of this township.

Table 2: The Impact of Colonialism, Urbanisation, and Apartheid Policies on the Growth and Transformation of Alexandra

<p>Arrival of the European colonisers and land dispossession</p> <p>The arrival of European colonisers, including the British, in Southern Africa in the 19th century was a pivotal moment in the region’s history, as it led to the imposition of colonial rule. This arrival resulted in the dispossession of land from indigenous communities and displacing African communities from their ancestral lands – a central policy that forced Black communities to lose their lands and resources (Thipe, 2020). Consequently, this led to the segregation of land for Black residents and created a lasting legacy of inequality and spatial injustice in Alexandra (Finlay, 2018).</p>
<p>British control</p> <p>The late 1800s saw the extension of British colonial control into various parts of Southern Africa, including what is now South Africa. The British colonial authorities asserted their influence and authority over the region (Oliver & Oliver, 2017).</p>
<p>Urbanisation, labour migration, and township establishment</p> <p>The presence of European colonisers and subsequent urbanisation led to the establishment of townships like Alexandra in the early 20th century (Thipe, 2020). Rapid urbanisation in Johannesburg during the latter part of the 19th century and the early part of the 20th century significantly impacted Alexandra . The discovery of gold attracted thousands of people, which resulted in a massive influx of migrant labourers, primarily in the mining industry (Akinola, 2020). Alexandra became a residential area for these workers by providing a place to live while they worked in the mines (Ubisi, 2019). However, rapid population growth and urbanisation imposed immense pressure on infrastructure, housing, and social services, which led to challenging living conditions and perpetuated poverty and inequality (Ubisi, 2019).</p>
<p>Apartheid-era policies and forced removals</p> <p>The establishment of townships such as Alexandra was heavily influenced and shaped by apartheid-era policies that enforced racial segregation and discrimination. The apartheid era, which began in 1948, significantly impacted the spatial organisation of South African cities and communities (Ubisi, 2019). The Group Areas Act of 1950 designated areas for different racial groups, which created unequal living conditions (Leonard & Dladla, 2020). The Alexandra township, located near Johannesburg, was established for Black people, which excluded them from predominantly white urban centres. Forced removals and demolitions were carried out to enforce apartheid policy, which led to overcrowding and resource strain.</p>

Families and communities were uprooted from their homes and relocated to Alexandra, which resulted in further overcrowding and strained resources (Dladla, 2019).

Forced relocation

During this time, Black residents were forcibly relocated from other areas and resettled in townships such as Alexandra, which was designated for Black residents. These forced relocations were part of the apartheid government's strategy to enforce racial segregation and control the movement and settlement of different racial groups (Finlay, 2018).

Economic interests

This is one way the British colonial and apartheid authorities sought to consolidate their control over the region and implement policies that served their economic interests (Beavon, 2022). These policies included land dispossession, labour exploitation, and control over valuable resources.

The above historical account highlights the impact of colonialism and apartheid on the development of Alexandra and South Africa, with emphasis on the deeply entrenched legacy of racial segregation and forced removals. Rapid growth in urban centres such as Johannesburg created a demand for cheap labour, which resulted in the establishment of townships such as Alexandra to segregate and control the African labour force. The early development of Alexandra was shaped by the mining industry's demand for labour and the desire to separate different racial groups (Delius, 2017).



Figure 4: Apartheid Policy Forced Removal. Source: South African History Online (2024)

Township Establishment and Development

The Alexandra township, originally known as “Brickfields” due to its brickmaking industries, was officially established in

1912 as the “Alexandra Native Township” (Leonard & Dladla, 2020). Named after Alexandra, the wife of Sir Alfred Milner (Nieftagodien, 2014), the township was strategically located near Johannesburg to provide cheap labour for the growing industries and mines (Dladla, 2019). It was one of the first urban areas designated for Black African residents in Johannesburg (Davies, 2012). Despite facing segregationist policies and racial discrimination, Alexandra became a vibrant and close-knit community (Delius, 2017). Initially, the township had limited infrastructure and basic amenities, as well as overcrowding, inadequate facilities, and a lack of proper sanitation, healthcare facilities, and educational institutions (Beavon, 2022). The absence of urban planning and limited resources contributed to the challenging living conditions faced by its residents (Dladla, 2019).

Over the years, Alexandra experienced a steady influx of migrants from rural areas seeking employment opportunities in the city (Beavon, 2022). This population growth further strained the already stretched resources and exacerbated the challenges faced by the community (Abrahams & Everatt, 2019).

South Africa’s Apartheid Era

Alexandra, situated in Johannesburg’s north-eastern region, has a complex historical background that is deeply connected to South Africa’s broader history (Dladla, 2019). The township’s history is rooted in the apartheid era, during which Black South Africans were forcibly removed from their homes, which resulted in the establishment of townships such as Alexandra (Mbanjwa, 2018). Historical narratives highlight the resilience and agency of the residents in fostering a sense of community and resistance in the township (Ballard & Hamann, 2021). The establishment of Alexandra was part of a broader system of racial segregation and control enforced by the apartheid government (Thipe, 2020). Initially, the township was developed as a temporary settlement for Black migrant workers in urban centres such as Johannesburg, with minimal infrastructure and services (Leonard & Dladla, 2020).

Overcoming Apartheid



Figure 5: Nelson Mandela's House Where He Rented a Room as a Young Man When He First Came to Alexandra, Johannesburg, in 1941. Source: Researcher

During the apartheid era, the National Party government enforced racial segregation and discrimination in Alexandra from 1948 to 1994, which resulted in marginalisation and neglect (Thipe, 2020). The government's policies aimed to suppress the Black majority population, which led to inadequate services and limited economic opportunities for the residents (Leonard & Dladla, 2020). Alexandra has been a centre of political activism, hosting anti-apartheid leaders and activists, and witnessing significant social and political events (Zelenova, 2019). Notable figures, such as Nelson Mandela, have also lived in the township (Dzikiti & Leonard, 2016). The township served as a hub for political and social movements (Zelenova, 2019), with organisations such as the ANC and the Pan Africanist Congress (PAC) having a strong presence in the township (Thipe, 2020).

The township also holds cultural significance, including being known for its rich musical heritage and the development of indigenous genres such as marabi and jazz (Leonard & Dladla, 2020). The historical context of apartheid-era policies profoundly impacted the spatial and socio-economic dynamics of Alexandra (Leonard & Dladla, 2020), which disrupted existing social networks and cultural ties. Forced removals further interrupted these networks, and inadequate infrastructure created challenging living conditions (Mbanjwa, 2018). This historical context also shaped socio-economic disparities in the

mixed settlements, with Black residents being systematically marginalised and having limited access to education, employment opportunities, and social services (De Jager, 2019). Racial segregation policies resulted in unequal resource allocation and perpetuated social and economic inequalities (Thipe, 2020).

Post-Apartheid Developments

After the end of apartheid in 1994, South Africa's democratic government was established to address historical injustices faced by Black residents and to promote inclusive urban development (De Jager, 2019). However, the legacy of apartheid continues to shape the socio-economic dynamics and challenges faced by the community of Alexandra (Mbanjwa, 2018). Despite these efforts, poverty, unemployment, crime, and inadequate resources persist in the township (Dladla, 2019). Understanding the historical context helps to recognise the resilience, agency, and aspirations of the residents, as well as the spirit of community activism (Zelenova, 2019). Alexandra continues to face numerous challenges, including high levels of poverty, inadequate infrastructure, and limited access to quality education and healthcare (Thipe, 2020). Efforts towards sustainable development and community empowerment are crucial in addressing these ongoing challenges and fostering positive change in the township (Auright, 2018). Acknowledging historical legacies allows policymakers, researchers, and community members to work towards rectifying historical injustices and creating a more equitable and inclusive future for the residents of Alexandra (De Jager, 2019). The history of Alexandra provides a foundation for understanding its present challenges, informs policy and urban planning decisions, empowers the community, and highlights the ongoing need for social justice and inclusive development efforts (Zelenova, 2019). It is essential to acknowledge and address this history in order to foster a more equitable and sustainable future for the residents of Alexandra.

Findings and Discussions

The historical analysis revealed that Alexandra emerged as a result of various socio-political and economic factors, including urban segregation policies, labour migration, and forced removals during apartheid-era South Africa. Its establishment in the early 20th century was characterised by overcrowding, inadequate infrastructure, and limited access to basic services, which reflect the systemic inequalities of the time.

Over time, Alexandra has evolved into a vibrant community marked by resilience, solidarity, and cultural diversity. Despite facing numerous challenges, residents have developed strong social networks, grassroots organisations, and communal spaces that foster a sense of belonging and collective identity. These social dynamics have played a crucial role in shaping the township's identity and resilience in the face of adversity.

The economic analysis revealed a complex landscape in Alexandra, which encompasses both formal and informal sectors. While formal employment opportunities are limited, the township has become a hub of informal economic activity, with small businesses, street vendors, and informal markets thriving amidst the challenges of poverty and unemployment. The entrepreneurial spirit and resourcefulness of residents have contributed to the resilience of the local economy.

Cultural factors play a significant role in shaping the identity and cohesion of Alexandra. The township is home to a diverse population that represents various ethnicities, languages, and cultural traditions. Despite this diversity, residents have developed a shared sense of community identity that is rooted in a common history of struggle and resilience. Cultural events, traditions, and expressions serve as important markers of identity and pride in the township.

Urban planning and development in Alexandra have been characterised by a lack of investment, inadequate infrastructure, and the growth of informal settlements. Decades of neglect and underdevelopment have led to overcrowded living conditions,

insufficient sanitation, and limited access to basic services such as water and electricity. The spatial organisation of the township reflects historical patterns of segregation and inequality, with informal settlements and formal housing developments existing side by side.

Lessons Learned and Recommendations

The findings highlight the need for holistic and inclusive approaches to urban development in mixed settlements such as Alexandra. Investment in basic infrastructure, housing, healthcare, education, and economic opportunities is essential to improving the quality of life for residents and fostering sustainable development. Furthermore, community participation, social cohesion, and cultural preservation should be central to any development initiatives to ensure that the unique identity and resilience of the township are preserved and celebrated.

This study underscores the complex interplay of historical, social, economic, and cultural factors that shaped the emergence and evolution of Alexandra. By understanding these dynamics and drawing lessons from the township's experiences, policymakers, urban planners, and community stakeholders can collaborate to build inclusive, resilient, and sustainable communities that promote social justice and equitable development.

Conclusion

The research conducted on the emergence and evolution of Alexandra in Johannesburg, a mixed settlement type, has shed light on its historical, social, economic, and cultural dimensions. The findings highlight the challenges faced by the township, including poverty, crime, inadequate infrastructure, and governance issues. However, they also reveal the efforts made towards transformation and sustainable development, such as upgrading and redevelopment initiatives, community empowerment, preservation of cultural heritage, and the achievement of urban resilience and sustainability. The

significance of addressing the unique needs and characteristics of mixed settlements such as Alexandra cannot be overstated. The township's historical background, influenced by colonialism, urbanisation, and apartheid policies, has shaped its development and created distinct challenges that require tailored solutions. The paper underscores the importance of understanding the social dynamics, cultural heritage, and economic activities in the township, as well as the role of community empowerment and participation in fostering sustainable development.

The implications of this research extend beyond Alexandra. It serves as a valuable case study for policymakers, urban planners, and researchers who are interested in understanding and addressing the challenges faced by mixed settlements in other urban contexts. The findings highlight the need for comprehensive strategies that integrate economic development, social empowerment, environmental sustainability, and cultural preservation. Future research should focus on evaluating the long-term impacts of the initiatives implemented in Alexandra and assessing their effectiveness in addressing the identified challenges, and identifying areas for improvement. Further investigation into the dynamics of community empowerment, cultural preservation, and sustainable urban development in mixed settlements will contribute to the knowledge base and inform policy decisions.

By understanding the historical, social, economic, and cultural dimensions, policymakers and stakeholders can design targeted interventions that promote inclusive development, enhance quality of life, and empower the community. The findings and implications of this research pave the way for future endeavours to create sustainable, resilient, and vibrant mixed settlements that embrace their cultural heritage and meet the needs of their diverse populations.

References

- Abrahams, C., & Everatt, D. (2019). City profile: Johannesburg, South Africa. *Environment and Urbanization ASIA*, 10(2), 255-270. <https://doi.org/10.1177/0975425319859123>
- Adegun, O. B. (2017). Green infrastructure in relation to informal urban settlements. *Journal of Architecture and Urbanism*, 41(1), 22-33. <https://doi.org/10.3846/20297955.2017.1296791>
- Adegun, O. B. (2019). Green infrastructure in informal unplanned settlements: The case of Kya Sands, Johannesburg. *International Journal of Urban Sustainable Development*, 11(1), 68-80. <https://doi.org/10.1080/19463138.2019.1565412>
- Alexander, E. R. (2016). There is no planning – only planning practices: Notes for spatial planning theories. *Planning Theory*, 15(1), 91-103. <https://doi.org/10.1177/1473095215594617>
- Auright, J. N. (2018). Alexandra township. In K. Sheldon (Ed.), *Courtyards, markets, city streets: Urban women in Africa* (pp. 259-284). Routledge. <https://doi.org/10.4324/9780429501241-12>
- Ballard, R., & Hamann, C. (2021). Income inequality and socio-economic segregation in the City of Johannesburg. In M. van Ham, T. Tammaru, R. Ubarevičienė & H. Janssen (Eds.), *Urban socio-economic segregation and income inequality: A global perspective* (pp. 91-109). Springer. https://doi.org/10.1007/978-3-030-64569-4_5
- Ballard, R., & Rubin, M. (2017). A “Marshall Plan” for human settlements: How megaprojects became South Africa’s housing policy. *Transformation: Critical Perspectives on Southern Africa*, 95(1), 1-31. <https://doi.org/10.1353/trn.2017.0020>
- Beavon, K. (2022). *Johannesburg: The making and shaping of the city* (vol. 9). Brill.
- Benagiano, G., & Brosens, I. (2014). The multidisciplinary approach. *Best Practice & Research Clinical Obstetrics & Gynaecology*, 28(8), 1114-1122. <https://doi.org/10.1016/j.bpobgyn.2014.08.006>

- Bogumil, E., & Chase-Dunn, C. (2021). Settlement networks and sociocultural evolution. In Z.P. Neal & C. Rozenblat (Eds.), *Handbook of cities and networks* (pp. 63–87). Edward Elgar Publishing. <https://doi.org/10.4337/9781788114714.00010>
- Bookchin, M. (1993). What is social ecology? In M. E. Zimmerman (Ed.), *Environmental philosophy: From animal rights to radical ecology* (pp. 436–454). Prentice Hall.
- Bozzoli, B. (2019). *Theatres of struggle and the end of apartheid*. Edinburgh University Press. <https://doi.org/10.1515/9781474464673>
- Brenner, N. (2000). The urban question: Reflections on Henri Lefebvre, urban theory and the politics of scale. *International Journal of Urban and Regional Research*, 24(2), 361–378. <https://doi.org/10.1111/1468-2427.00234>
- Brooks, J. S., Waring, T. M., Borgerhoff Mulder, M., & Richerson, P. J. (2018). Applying cultural evolution to sustainability challenges: An introduction to the special issue. *Sustainability Science*, 13(1), 1–8. <https://doi.org/10.1007/s11625-017-0516-3>
- Brown-Luthando, M., Reyes, E., & Gubevu, M. (2017). Informal settlement upgrading and safety: Experiences from Cape Town, South Africa. *Journal of Housing and the Built Environment*, 32(3), 471–493. <https://doi.org/10.1007/s10901-016-9523-4>
- Cirolia et al., 2017 – Cirolia, L. R., Görgens, T., van Donk, M., Smit, W., & Drimie, S. (Eds.). (2017). *Upgrading informal settlements in South Africa: Pursuing a partnership-based approach*. Juta and Company (Pty) Ltd.
- Cirota, M. H. (2017). *Towards an understanding of the limitations of the Alexandra renewal project: The ALPOA court interdict and its impact* (Doctoral dissertation). University of the Witwatersrand.
- Clark, J. (1997). A social ecology. *Capitalism Nature Socialism*, 8(3), 3–33. <https://doi.org/10.1080/10455759709358746>
- Charman, A. (2017). Micro-enterprise predicament in township economic development: Evidence from Ivory Park and Tembisa. *South African Journal of Economic and Management Sciences*, 20(1), 1–14. <https://doi.org/10.4102/sajems.v20i1.1617>

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- Chatiza, K., Makanza, V., Musekiwa, N., Paradza, G., Chakaipa, S., Mukoto, S., & Mushamba, S. (2013). Capacity building for local government and service delivery in Zimbabwe. Development Governance Institute.
- Collins, P. H. (2019). Intersectionality as critical social theory. Duke University Press. <https://doi.org/10.1215/9781478007098>
- Corburn, J. (2013). Healthy city planning: From neighbourhood to national health equity. Routledge. <https://doi.org/10.4324/9780203772249>
- Corburn, J., & Sverdlik, A. (2019). Informal settlements and human health. In M. Nieuwenhuijsen & H. Khreis (Eds.), Integrating human health into urban and transport planning: A framework (pp. 155-171). Springer. https://doi.org/10.1007/978-3-319-74983-9_9
- Corburn, J., Vlahov, D., Mberu, B., Riley, L., Caiaffa, W. T., Rashid, S. F., & Ayad, H. (2020). Slum health: Arresting COVID-19 and improving well-being in urban informal settlements. *Journal of Urban Health*, 97(2), 348-357. <https://doi.org/10.1007/s11524-020-00438-6>
- Cresswell, T. (2010). New cultural geography – An unfinished project? *Cultural Geographies*, 17(2), 169-174. <https://doi.org/10.1177/1474474010363845>
- Creswell, J. W. (2013). Steps in conducting a scholarly mixed methods study. <https://pedevalguide.safestates.org/wp-content/uploads/2020/07/Steps-in-Conducting-a-Scholarly-Mixed-Methods-Study.pdf>
- Daniels, J. (2015). The trouble with white feminism: Whiteness, digital feminism and the intersectional internet. In M. Hobbs & C. Rice (Eds.), *Gender and women's studies: Critical terrain* (pp. 405-412). Women's Press. <https://doi.org/10.2139/ssrn.2569369>
- Davies, L. (2012). Alex renewal makes progress: Available from http://www.urbanlandmark.org.za/downloads/clipping_jhb_feb2012.pdf (Accessed 14 April 2014).

- De Jager, J. N. W. (2019). Political consumerism in the South African and British anti-apartheid movements. In M. Boström, M. Micheletti & P. Oosterveer (Eds.), *The Oxford handbook of political consumerism* (p. 47). Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780190629038.013.46>
- Delius, P. (2017). The history of migrant labor in South Africa (1800–2014). In T. Spear (Ed.), *Oxford research encyclopedia of African history* (pp. 1–20). Oxford University Press. <https://doi.org/10.1093/acrefore/9780190277734.013.93>
- Delius, P. (2019). Mistaking form for substance: Reflections on the key dynamics of pre-colonial polities and their implications for the role of chiefs in contemporary South Africa. In M. Buthelezi, D. Skosana & B. Vale (Eds.), *Traditional leaders in a democracy: Resources, respect and resistance* (pp. 24–49). Mapungubwe Institute for Strategic Reflection (MISTRA). <https://doi.org/10.2307/j.ctvh8qx3p.8>
- De Satgé, R., & Watson, V. (2018). *Urban planning in the global south: Conflicting rationalities in contested urban space*. Springer. <https://doi.org/10.1007/978-3-319-69496-2>
- Dladla, A. (2019). *Obstacles in tourism growth: The case of Alexandra Township, Johannesburg* (Master's thesis). University of Johannesburg.
- Dovey, K., Van Oostrum, M., Chatterjee, I., & Shafique, T. (2020). Towards a morphogenesis of informal settlements. *Habitat International*, 104, 102240. <https://doi.org/10.1016/j.habitatint.2020.102240>
- Eller, A. R., Canington, S. L., Saiyed, S. T., Austin, R. M., Hofman, C. A., & Sholts, S. B. (2021). What does it mean to be wild? Assessing human influence on the environments of nonhuman primate specimens in museum collections. *Ecology and Evolution*, 11(18), 12617–12629. <https://doi.org/10.1002/ece3.8006>
- Findley, L., & Ogbu, L. (2011). South Africa: From township to town. *Places Journal*, November 2011. <https://placesjournal.org/article/south-africa-from-township-to-town/?cn-reloaded=1#0> <https://doi.org/10.22269/111117>

3rd Conference of Planning Students

- Finlay, W. (2018). *Neoliberal apartheid: Palestine/Israel and South Africa after 1994*. University of Chicago Press. <https://doi.org/10.1177/0094306118779814e>
- Gao, T., & Lim, S. (2023). Socio-spatial integration in innovation districts: Singapore's mixed-use experiment. *Cities*, 140, 104405. <https://doi.org/10.1016/j.cities.2023.104405>
- Generalova, E. M., Generalov, V. P., Kuznetsova, A. A., & Bobkova, O. N. (2018). Mixed-use development in a high-rise context. In *E3S Web of Conferences* (vol. 33, p. 01021). EDP Sciences. <https://doi.org/10.1051/e3sconf/20183301021>
- Gibbs et al., 2018 – Gibbs, A., R. Jewkes, and Y. Sikweyiya. 2018. “I Tried to Resist and Avoid Bad Friends”: The Role of Social Contexts in Shaping the Transformation of Masculinities in a Gender-Transformative and Livelihood Strengthening Intervention in South Africa.” *Men and Masculinities* 21 (4):501–520. <https://doi.org/10.1177/1097184X17696173>
- Goldstein, J. (2011). Emergence in complex systems. In P. Allen, S. Maguire, & B. McKelvey (Eds.), *The SAGE handbook of complexity and management* (pp. 65–78). Sage Publications. <https://doi.org/10.4135/9781446201084.n4>
- Guerrero, A. M., & Wilson, K. A. (2017). Using a social-ecological framework to inform the implementation of conservation plans. *Conservation Biology*, 31(2), 290–301. <https://doi.org/10.1111/cobi.12832>
- Haas, G. (2007). *Community art centre – Alexandra* (Doctoral dissertation). University of Pretoria.
- Hall, J. R. (1999). The transition to new thinking about the emergence of capitalism. Paper presented at the conference “On the Origins of Modern World”, University of California, Davis.
- Hansen, L. D., Tolley, H. D., & Woodfield, B. F. (2021). Transformation of matter in living organisms during growth and evolution. *Biophysical Chemistry*, 271, 106550. <https://doi.org/10.1016/j.bpc.2021.106550>
- Kristensen, T. N., Ketola, T., & Kronholm, I. (2020). Adaptation to environmental stress at different timescales. *Annals of the New York Academy of Sciences*, 1476(1), 5–22. <https://doi.org/10.1111/nyas.13974>

- Leonard, L. (2014). Characterising civil society and its challenges in post-apartheid South Africa. *Social Dynamics*, 40(2), 371–391. <https://doi.org/10.1080/02533952.2014.936725>
- Leonard, L., & Dladla, A. (2020). Obstacles to and suggestions for successful township tourism in Alexandra Township, South Africa. *e-Review of Tourism Research*, 17(6), 900–920.
- Li, J., & Chiu, L. R. (2018). Urban investment and development corporations, new town development and China's local state restructuring: The case of Songjiang new town, Shanghai. *Urban Geography*, 39(5), 687–705. <https://doi.org/10.1080/02723638.2017.1382308>
- Ma, W., Jiang, G., Zhou, T., & Zhang, R. (2022). Mixed land uses and community decline: Opportunities and challenges for mitigating residential vacancy in peri-urban villages of China. *Frontiers in Environmental Science*, 10, 887988. <https://doi.org/10.3389/fenvs.2022.887988>
- Massey, R. (2020). Urban renewal in South African cities. In R. Massey & A. Gunter (Eds.), *Urban geography in South Africa: Perspectives and theory* (pp. 265–282). Springer. https://doi.org/10.1007/978-3-030-25369-1_17
- Matamanda, A. R. (2020). Living in an emerging settlement: The story of Hopley farm settlement, Harare, Zimbabwe. *Urban Forum*, 31(4), 473–487. <https://doi.org/10.1007/s12132-020-09394-5>
- Mayekiso, M. (2023). *Township politics: Civic struggles for a new South Africa*. UJ Press. <https://doi.org/10.36615/9781776424283>
- Mbanjwa, P. (2018). *The socio-economic impact of government's urban renewal initiatives: The case of Alexandra Township* (Master's thesis). University of Cape Town.
- Mills, A. J., & Helms Mills, J. (2018). Archival research. In C. Cassell, A. L. Cunliffe, & G. Grandy (Eds.), *The SAGE handbook of qualitative business and management research methods: History and traditions* (pp. 32–46). Sage Publications.
- Musavengane, R., & Leonard, L. (2019). When race and social equity matter in nature conservation in post-apartheid South Africa. *Conservation & Society*, 17(2), 135–146. https://doi.org/10.4103/cs.cs_18_23

- Myers, G. (2021). Urbanisation in the Global South. In C. M. Shackleton, S. S. Cilliers, E. Davoren, & M. J. du Toit (Eds.), *Urban ecology in the Global South* (pp. 27-49). Springer. https://doi.org/10.1007/978-3-030-67650-6_2
- Myers, G. A., McGreevy, P., Carney, G. O., & Kenny, J. (2003). Cultural geography. In G. L. Gaile & C. J. Willmott (Eds.), *Geography in America at the dawn of the 21st century* (pp. 82-96). Oxford University Press. <https://doi.org/10.1093/oso/9780198233923.003.0017>
- Nhamo, L., Rwizi, L., Mpandeli, S., Botai, J., Magidi, J., Tazvinga, H., Sobratee, N., Liphadzi, S., Naidoo, D., Modi, A. T., Slotow, R., & Mabhaudhi, T. (2021). Urban nexus and transformative pathways towards a resilient Gauteng city-region, South Africa. *Cities*, 116, 103266. <https://doi.org/10.1016/j.cities.2021.103266>
- Nieftagodien, N. (2014). Public history in Alexandria: Facing the challenges of tourism and struggle heroization. In R. Silverman (Ed.), *Museum as process* (pp. 187-206). Routledge. <https://doi.org/10.4324/9781315766935-17>
- Nkere, G. O. (2014). *The role of NGOs in the development of technical skills among the youth in Alexandria, Johannesburg* (Doctoral dissertation). University of the Witwatersrand.
- Nyapokoto, R. (2014). *The road between Sandton and Alexandra Township: A Fanonian approach to the study of poverty and privilege in South Africa* (Doctoral dissertation). University of South Africa.
- Obasanjo, O., Pinzón Bueno, J. C., Davis, D., Kilcullen, D., Van der Merwe, E., Muzenda, A., Games, D., Doyle, N., Calburn, S., Hamukoma, N., Hartley, R., & Mills, G. (2020). *Future of African cities project. Special report: Where the rubber hits the road*. The Brenthurst Foundation.
- Oliver, E., & Oliver, W. H. (2017). The colonisation of South Africa: A unique case. *HTS: Theological Studies*, 73(3), 1-8. <https://doi.org/10.4102/hts.v73i3.4498>

- Roberts, R. E., & Okanya, O. (2022). Measuring the socio-economic impact of forced evictions and illegal demolition: A comparative study between displaced and existing informal settlements. *The Social Science Journal*, 59(1), 119-138. <https://doi.org/10.1016/j.soscij.2018.12.003>
- Schiefer, D., & Van der Noll, J. (2017). The essentials of social cohesion: A literature review. *Social Indicators Research*, 132, 579-603. <https://doi.org/10.1007/s11205-016-1314-5>
- Sibanda, B. (2018). The interdependency between residents' livelihoods and informal settlements improvement: A case study of Sejwètla informal settlement in Alexandra Township, Johannesburg (Doctoral dissertation). University of the Witwatersrand.
- South African History Online. (2024). Forced removals in South Africa. <https://www.sahistory.org.za/article/forced-removals-south-africa>
- Sulemana, I., Nketiah-Amponsah, E., Codjoe, E. A., & Andoh, J. A. N. (2019). Urbanization and income inequality in sub-Saharan Africa. *Sustainable Cities and Society*, 48, 101544. <https://doi.org/10.1016/j.scs.2019.101544>
- Thipe, T. (2020). Black freehold: Landownership in Alexandra Township, 1912-1979 (Doctoral dissertation). Yale University. <https://doi.org/10.1332/policypress/9781529227956.003.0013>
- Thipe, T. (2022). In *Black and white: The hollow apology of racialised state compensation to freehold landowners*. In M. Judge & D. Smythe (Eds.), *Unsettling apologies: Critical writings on apology from South Africa* (pp. 246-263). Bristol University Press.
- Ubisi, S. V. (2019). The impact of migration on providing adequate housing in South Africa. IPADA.
- Van Niekerk, W., Petzer, E., Ndaba, D., Pieterse, A., Raja, A., & Kruger, D. M. (2015). Revising the South African guidelines for human settlement planning and design (the red book). In *Proceedings of the Smart and Sustainable Built Environment (SASBE) Conference* (pp. 9-11). University of Pretoria.

- Van Oostrum, M. (2021). Access, density and mix of informal settlement: Comparing urban villages in China and India. *Cities*, 117, 103334. <https://doi.org/10.1016/j.cities.2021.103334>
- Ventresca, M. J., & Mohr, J. W. (2017). Archival research methods. In J. A. C. Baum (Ed.), *The Blackwell companion to organizations* (pp. 805–828). Blackwell. <https://doi.org/10.1002/9781405164061.ch35>
- Vosloo, C. (2020). Extreme apartheid: The South African system of migrant labour and its hostels. *Image & Text*, 34, 1–33. <https://doi.org/10.17159/2617-3255/2020/n34a1>
- Williams, J. (2020). The role of spatial planning in transitioning to circular urban development. *Urban Geography*, 41(6), 915–919. <https://doi.org/10.1080/02723638.2020.1796042>
- Wilson, J. (2016). Metaphysical emergence: Weak and strong. In T. Bigaj & C. Wüthrich (Eds.), *Metaphysics in contemporary physics* (pp. 345–402). Brill. https://doi.org/10.1163/9789004310827_015
- Wisner, B. (2016). Environmental justice, health, and safety in urban South Africa: Alexandra Township revisited. In B. R. Johnston (Ed.), *Life and death matters* (pp. 311–332). Routledge. <https://doi.org/10.4324/9781315425375-20>
- Wolff, E., Rauf, H. A., Diep, L., Natakun, B., Kelly, K., & Hamel, P. (2022). Implementing participatory nature-based solutions in the Global South. *Frontiers in Sustainable Cities*, 4, 956534. <https://doi.org/10.3389/frsc.2022.956534>
- Woodward, K. (2018). Concepts of identity and difference. In S. Watson, A. J. Barnes, & K. Bunning (Eds.), *A museum studies approach to heritage* (pp. 429–440). Routledge. <https://doi.org/10.4324/9781315668505-34>
- Worden, N. (2011). *The making of modern South Africa: Conquest, apartheid, democracy*. John Wiley & Sons.
- Yiftachel, O. (2009). Critical theory and 'gray space': Mobilization of the colonized. *City*, 13(2–3), 246–263. <https://doi.org/10.1080/13604810902982227>

Emergence and Evolution

Zelenova, D. A. (2019). Local memories of the anti-apartheid struggles: Rediscovering 'people's democracy'. In D. M. Bondarenko & M. L. Butovskaya (Eds.), *The omnipresent past: Historical anthropology of Africa and African diaspora* (pp. 66-84). LRC Publishing House.