Strategic Partnerships and Green Innovations: A Roadmap for Sustainable Co-Value Investment Mixed-Income Housing in South Africa

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Abstract

This study explores the complexities of Mixed Income Housing (MIH) development in South Africa within the context of the United Nations Sustainable Development Goal 11, which aims to create inclusive, safe, resilient, and sustainable cities. It develops the Equitable Urban Investment Theory (EUIT), integrating principles from investment theory, social equity, and New Urbanism, to provide a holistic approach to MIH. Employing a qualitative research methodology, including semi-structured interviews, site visits, and the Delphi method, the research identifies six thematic insights that inform strategic guidelines for sustainable MIH development. Key findings highlight the viability of MIH without legislative mandates, emphasizing the role of Public-Private Partnerships (PPPs) and community-based collaborations in overcoming challenges such as NIMBYism and financial constraints. The study critiques traditional investment theory for its narrow focus on financial aspects, advocating for a broader approach that includes social outcomes such as community development and social inclusion. By integrating social justice and New Urbanism principles, the EUIT framework balances economic viability with the imperative for social equity and sustainable urban planning. The recommendations advocate for repositioning MIH as an investment asset, supported by government-provided land and infrastructure, to facilitate the inclusion of low-income units. The research concludes that sustainable MIH developments require a multifaceted approach that aligns policy, investment, and community objectives, promoting urban integration and socio-economic dynamism. These findings provide a roadmap for policymakers, developers, and urban planners to advance inclusive and sustainable urban housing solutions in South Africa and similar contexts globally.

Keywords: Green Technologies, Inclusive Urban Development, Public-Private Partnerships, Sustainable Housing, Urban Policy.
Introduction

The Challenges and Strategies in Mixed Income Housing

Exploring the Complexities of Mixed Income Housing (MIH)

Historical literature reveals persistent ambiguities surrounding MIH regarding its scale, intent, income mix, tenure type, and design (Brophy and Smith, 1997; Ellickson, 2009; Green Building Council of South Africa and British High Commission, 2012; Jupp et al., 1999; Levy et al., 2016, 2013). Modern research continues to explore the complexities of MIH, including its scale, purpose, demographic diversity, tenure options, and architectural planning (Bulger et al., 2023; Geyer Jr, 2024; Kjeldsen and Joseph, 2024; Zhang et al., 2024). The approval processes for such developments are frequently challenged and hindered in legal disputes, primarily due to the Not in My Backyard (NIMBY) syndrome (Read and Sanderford, 2017; Simbanegavi, 2019; Turok et al., 2024). This syndrome reflects community resistance to MIH developments, driven by concerns over potential declines in property values, increases in crime, and excessive burdens on services and amenities (Diamond and McQuade, 2019; Ellickson, 2009; Galster, 2011; Smith and Sandoval, 2019). Additional complications include diminished educational achievements, heightened criminal activity, teenage pregnancies, and isolation from lucrative employment opportunities, particularly within inner-city concentrated housing (Ah Goo, 2017; Amjad et al., 2019; Andersson et al., 2022; Bulger et al., 2023; Lipman, 2020; Simbanegavi, 2019).

Private Sector Engagement in South Africa’s Housing Market
In 2004, the Bankers Association South Africa (BASA) committed to a R42 billion investment in affordable housing by 2008, marking significant private sector engagement in addressing housing shortages (Gordhan, 2014). Goko, (2013) and Migozzi, (2020) highlighted an existing market gap of 600,000 units, with an annual increase of approximately 100,000 units. The government has demonstrated a willingness to collaborate with the private sector to stimulate MIH investments, as evidenced by the Human Settlements Minister’s appeal to Johannesburg Stock Exchange (JSE) listed companies to invest in housing (Fell and Mattsson, 2021; Iwegbuna, 2019; Simbanegavi and Ijasan, 2017). Despite substantial contributions from both public and private sectors, discussions continue to revolve around housing shortages, policy considerations, and the necessary enhancements to position residential markets as a sustainable investment class (Fama and Schwert, 1977; Gruis and Nieboer, 2004; Haffner and Hulse, 2021; Li et al., 2019). Although MIHs are prevalent in various countries, their development in South Africa remains nascent, largely due to the nation’s historical context. It remains uncertain how MIH in South Africa could be adapted to mitigate the NIMBY effect, thereby rendering such housing solutions both viable and sustainable, and in turn, catalysing private sector investment.

The Problem Statement

Challenges in Achieving Sustainable Mixed Income Housing

The phenomenon of MIH developments occupies a pivotal role in contemporary urban planning and socio-economic policy, addressing the pressing need for inclusive, sustainable, and equitable housing solutions in rapidly urbanizing societies. Despite the potential of MIH to bridge the gap between disparate income groups, foster social cohesion, and stimulate economic diversity within urban centres, several critical challenges undermine its effectiveness and sustainability. The persistent housing shortfall, exacerbated by global financial crises, environmental calamities, political instability, and escalating urbanization rates, presents a formidable challenge to achieving inclusive urban environments as mandated by the United Nations Sustainable Development Goal 11 (Rahman, 2019; United Nations, 2015).

The Aim of the Study

Exploring Mixed Income Housing Dynamics in South Africa

This study seeks to explore the intricacies of MIH development within the South African context, a nation uniquely marked by its apartheid legacy and current socio-economic disparities. Central to this inquiry is the examination of the Inclusionary Housing Policy (IHP) as a mechanism for catalysing MIH developments, juxtaposed against the backdrop of NIMBYism, which delays development processes and diminishes investment in such housing initiatives. The study delves into the dynamics of public-private partnerships (PPPs), the optimal mix of households within MIH developments, and the critical role of asset and property management strategies in ensuring the viability and sustainability of MIH projects. The overarching problem this research addresses is the multifaceted challenge of effectively implementing MIH developments that can withstand socio-economic pressures, mitigate risks, and fulfil the vision of creating inclusive, safe, resilient, and sustainable urban spaces for all citizens (Pruzan, 2016).

The Main Research Question

Optimizing MIH Development in South Africa: A Strategic Inquiry
MRQ: How can the implementation of MIH developments in South Africa be optimized through strategic public-private partnerships, effective IHPs, and comprehensive asset and property management strategies to ensure viability, sustainability, and inclusivity, while overcoming challenges such as NIMBYism, financial constraints, and socio-economic disparities exacerbated by urbanization and historical legacies?

The Research Sub-Questions

Sub-Questions Guiding MIH Development Optimization

In addressing South Africa’s acute housing shortage and socio-economic disparities, MIH developments emerge as a pivotal solution within urban planning discourse. Integrating diverse income groups within urban spaces not only addresses housing needs but also aims to foster social cohesion and economic diversity. However, realizing the full potential of MIH developments entails navigating a complex landscape marked by financial constraints, societal resistance such as NIMBYism, and the lingering effects of historical injustices. This research dissects these challenges through a focused inquiry, subdivided into three critical sub-questions aimed at uncovering the mechanisms through which MIH developments can be optimized to achieve their intended inclusivity, viability, and sustainability.

RS1: What roles do PPPs play in enhancing the viability and sustainability of MIH developments, and how can these collaborations be structured to address financial constraints and incentivize the inclusion of low-income housing units?

RS2: How can IHP be effectively implemented and monitored within the South African context to ensure they contribute to the socio-economic integration of MIH developments without necessitating legislative enforcement?

RS3: What are the optimal asset and property management strategies required to maintain the quality and investment value of MIH developments, and how can these approaches mitigate the impacts of NIMBYism and historical socio-economic disparities?

The successful implementation of MIH developments in South Africa represents a multifaceted endeavour that necessitates a coordinated approach involving strategic public-private partnerships, effective policy implementation, and robust management practices. The exploration of these dimensions through the posed sub-questions illuminates pathways towards overcoming prevalent challenges in MIH development. By fostering collaborations that align the interests of the private sector with public goals, ensuring the robust application and monitoring of inclusive housing policies, and adopting comprehensive management strategies, MIH developments can transcend their current limitations. This approach not only promises to bridge the housing gap but also to contribute significantly to the urban landscape’s socio-economic and spatial transformation, paving the way for more inclusive, resilient, and sustainable cities in South Africa and beyond.

The Research Objectives

Objectives Guiding the Study on MIH Development Optimization

The pursuit of MIH developments in South Africa is a strategic response to the urgent need for inclusive, sustainable, and equitable urban housing solutions. Amidst challenges such as financial constraints, societal resistance, and historical inequalities, this research aims to delve into the complexities of MIH implementation. By establishing clear research
objectives, this study seeks to identify and address the critical factors influencing the success of MIH projects. These objectives are designed to guide a comprehensive investigation into the mechanisms and strategies that can optimize MIH developments, ensuring their contribution to the broader goals of urban inclusivity, resilience, and sustainability.

**RO1:** To evaluate the role and impact of PPPs in enhancing the viability and sustainability of MIH developments in South Africa, focusing on the structures and mechanisms that facilitate effective collaboration between the private sector, government, and communities.

**RO2:** To assess the implementation and efficacy of IHP within the South African context, examining how these policies can be leveraged to foster socio-economic integration in MIH developments without necessitating their conversion into law.

**RO3:** To identify and propose optimal asset and property management strategies that ensure the maintenance of quality and investment value in MIH developments, while addressing challenges such as NIMBYism and the socio-economic disparities rooted in South Africa's urbanization and historical context.

This study sets forth a focused inquiry into the optimization of MIH developments in South Africa through a series of targeted research objectives. By examining the synergistic potential of PPPs, the strategic implementation of inclusionary housing policies, and the adoption of effective asset and property management strategies, this research aims to uncover actionable insights that can significantly improve the outcomes of MIH projects. Achieving these objectives will not only contribute to the reduction of housing shortages and the enhancement of urban inclusivity but also foster a model of urban development that is equitable, resilient, and sustainable. The anticipated findings promise to offer valuable contributions to both policy formulation and the practical execution of MIH developments, paving the way for transformative urban housing solutions in South Africa and similar contexts globally.

**The Research Assumptions**

**Foundational Assumptions for MIH Development**

In embarking on a study aimed at optimizing MIH developments in South Africa, it is imperative to delineate the underlying assumptions guiding the research. These assumptions are foundational to understanding the complexities and potential of MIH as a tool for addressing urban housing shortages, socio-economic disparities, and the pursuit of sustainable urban development. By articulating these research assumptions, we establish a framework for inquiry that acknowledges the inherent challenges and opportunities within the South African context, providing a basis for a nuanced examination of MIH developments.

**RA1:** PPPs as Catalysts for MIH Development: It is assumed that PPPs possess the potential to significantly enhance the viability and sustainability of MIH developments. This presupposes that through effective collaboration and shared investment, PPPs can overcome financial and regulatory hurdles, contributing to the successful implementation of MIH projects.

**RA2:** Effectiveness of IHP: The research operates under the assumption that IHPs, when properly implemented and monitored, can serve as powerful mechanisms for promoting
socio-economic integration within MIH developments. This assumes that such policies can be applied flexibly and creatively to encourage the inclusion of low-income housing units without necessitating legislative enforcement.

RA3: Impact of Asset and Property Management Strategies: The assumption here is that strategic asset and property management practices are critical for maintaining the quality, investment value, and sustainability of MIH developments. This includes the belief that addressing challenges such as NIMBYism and historical socio-economic disparities is essential for the long-term success of MIH projects.

The outlined research assumptions serve as the bedrock upon which this study is built, framing our exploration of MIH developments in South Africa. By acknowledging the critical roles of public-private partnerships, inclusionary housing policies, and asset and property management strategies, these assumptions highlight the multifaceted approach required to address urban housing challenges. As we delve into the investigation, these assumptions will guide our analysis, enabling us to critically assess the potential of MIH to contribute to more inclusive, resilient, and sustainable urban communities. Ultimately, the verification or refutation of these assumptions through empirical research will provide valuable insights into the dynamics of MIH development, informing policy and practice in the pursuit of equitable urban housing solutions (Popper, 2008; Saunders et al., 2023).

The Research Hypotheses

Hypotheses Guiding MIH Development Optimization

Embarking on a comprehensive study aimed at unravelling the complexities of MIH developments in South Africa necessitates the formulation of specific research hypotheses. These hypotheses are predicated on a critical examination of the factors influencing the success of MIH projects, including public-private partnerships, inclusionary housing policies, and effective management strategies. By positing these hypotheses, the study seeks to empirically test the assumptions and explore the dynamics at play in MIH developments, aiming to contribute to the body of knowledge on creating inclusive, sustainable urban housing solutions.

PPPs Enhance MIH Viability and Sustainability

H1: It is hypothesized that MIH developments facilitated through public-private partnerships exhibit greater viability and sustainability compared to those developed without such collaborative frameworks. This hypothesis suggests that the synergy between governmental support and private sector efficiency and investment can address financial and regulatory challenges, leading to more successful MIH outcomes.

Effective Implementation of IHP Promotes Socio-Economic Integration in MIH Developments

H2: This hypothesis posits that the strategic implementation and monitoring of inclusionary housing policies are significantly associated with enhanced socio-economic integration within MIH developments. It implies that well-crafted IHPs can incentivize the inclusion of low-income housing units, contributing to the broader goals of social cohesion and equity without necessitating legislative enforcement.

Strategic Asset and Property Management Strategies are Crucial for Maintaining MIH Quality and Investment Value

H3: The hypothesis asserts that the adoption of comprehensive asset and property management strategies is critical for ensuring the quality, investment value, and long-term
sustainability of MIH developments. This encompasses the premise that effectively addressing challenges such as NIMBYism and historical socio-economic disparities is essential for the success of MIH projects.

Through the articulation of these research hypotheses, the study aims to systematically explore the operational dynamics, challenges, and opportunities of MIH developments in South Africa. By testing these hypotheses, the research endeavours to uncover empirical evidence that can either validate or challenge existing assumptions about the efficacy of PPPs, the role of IHPs, and the importance of management strategies in MIH developments. The findings are anticipated to offer actionable insights and recommendations for policymakers, developers, and urban planners, contributing to the advancement of MIH as a viable and sustainable approach to addressing urban housing shortages and fostering inclusive communities (Popper, 2008; Saunders et al., 2023).

**Literature Review**

**Theoretical Literature Review: Enhancing MIH through Integrated Theoretical Perspectives**

**Factors Influencing MIH Development Success**

The efficacy of MIH developments hinges on their economic viability and sustainability, principles derived from investment theory. Globally recognized factors contributing to MIH success include the prioritization of market-rate developments with uniform house designs, employment rates among residents sufficient to sustain development viability, and robust asset and property management practices (Khadduri and Martin, 1997; McConnell and Wiley, 2011; Minkoff and Lyons, 2019; Obrinsky and Stein, 2007; Pozoukidou and Chatziyiannaki, 2021; Rodríguez-Pose and Storper, 2020; Simbanegavi, 2019). In the South African context, the effectiveness of IHP in transforming urban areas depends on redirecting such developments towards low/middle-income neighborhoods, with a model led by developers but significantly supported by government subsidies (Evans, 2020; Fell and Mattsson, 2021; Klug et al., 2013; Nzau and Trillo, 2020; Rodríguez-Pose and Storper, 2020). Onatu, (2012) further supports this argument through an exploratory case study of Cosmo City, advocating for enhanced private sector engagement in housing development, given the financial limitations faced by local authorities in housing and service provision. This underscores the necessity for housing policies to facilitate private sector involvement (Botha, 2022; Giti et al., 2020; Ludick et al., 2021).

**Investment Risks and Strategies in MIH Developments**

The investment risks associated with MIH, such as legislative mandates for mixed-income housing development and collaborative efforts to augment the investment appeal of MIH projects, are crucial considerations (Gress et al., 2019; Josep et al., 2020; Simbanegavi, 2019). Opting for greenfield over brownfield sites enhances the investment attractiveness through superior housing unit design, quality, size, and homogeneity (Kent et al., 2019; Pavolová et al., 2021; Simbanegavi, 2019; Yuan, 2019). Consequently, these residences emerge as attractive investment assets. Additionally, MIH developments can integrate individuals from diverse backgrounds, irrespective of race or socioeconomic status, facilitated by the multiplicity of housing unit types (Mayorga et al., 2022; McFarlane, 2019; Pavolová et al., 2021; Rey et al., 2022). This approach not only elevates housing density, addressing the demands of social and rental housing markets, but also mitigates investment risk by adopting market-oriented asset and property management strategies.
essential for ensuring the long-term viability and sustainability of MIH projects (Joseph et al., 2020; Rachmawatia and Susilawatia, 2022; Sanga, 2022; Simbanegavi, 2019).

Integrating Diverse Theories into MIH Discourse
The discourse surrounding MIH has predominantly been anchored in investment theory, which primarily examines the economic feasibility and returns of housing projects. However, this perspective does not sufficiently account for the complex socio-spatial dynamics that define urban living (Janoschka et al., 2020; Lin and Zhu, 2022; Rainer, 2019; Watt, 2021). Extending the theoretical underpinnings of MIH by integrating insights from social equity and urban planning theories, particularly the principles of social justice in urban development and New Urbanism, offers a comprehensive lens through which to evaluate MIH projects (Fainstein, 2014; Garde, 2020; Hirsch et al., 2021; Jian et al., 2020; Kjeldsen and Stender, 2022; Levin et al., 2022; Meerow et al., 2019; Pineo, 2022; Simbanegavi, 2019).

New Urbanism’s Role in Enhancing MIH Frameworks
New Urbanism emphasizes creating walkable, mixed-use, and interconnected urban spaces to foster sustainable and vibrant communities (Janoschka et al., 2020; Lin and Zhu, 2022; Rainer, 2019; Watt, 2021). The application of New Urbanism to MIH supports a built environment conducive to social cohesion and environmental sustainability. Integrating these principles into MIH development can address urban planning challenges, including density, diversity, and public space quality, thereby enhancing the physical and social fabric of urban neighborhoods (Ferillo, 2021; Garde, 2020; Grant, 2023; Wang and Kemeny, 2023). Merging social equity and New Urbanism theories with investment perspectives enriches the MIH framework, creating a multidimensional approach that balances economic viability with social and environmentally sustainable development goals. This comprehensive framework recognizes the interconnectedness of financial sustainability, social justice, and urban design in MIH developments (Bulger et al., 2023; Fitzgibbons and Mitchell, 2019; Kaur and Garg, 2019; Meerow et al., 2019; Pineo, 2022; Stanislav and Chin, 2019).

Proposing Equitable Urban Investment Theory (EUIT)
Equitable Urban Investment Theory: A Multidisciplinary MIH Approach
This novel theoretical framework integrates principles from investment theory, social equity, and New Urbanism to provide a holistic approach to MIH development. It balances economic viability with the imperative for social justice and sustainable urban planning, reflecting a multidisciplinary perspective on urban development. The framework is underpinned by four core tenets (Popper, 2008; Weaich, 2024; Weaich et al., 2024):

**Tenet 1: Economic and Social Value Co-creation**
This tenet analyses how mixed-income housing contributes to social sustainability, emphasizing the importance of social value in urban investment. It posits that MIH developments should not only aim for financial sustainability but also generate significant social value. Economic returns are balanced with social outcomes, such as community development, social inclusion, and enhanced quality of life for all residents, irrespective of income levels. Investments in MIH are viewed through a broader lens that includes both financial returns and contributions to social equity. This challenges traditional economic models by advocating for a broader approach to value creation in housing, where social and community benefits are considered alongside financial gains, promoting social
inclusion and community development (Al-Busaidi and Al-Muharrami, 2021; Bulger et al., 2023; Fama and French, 2004; Kjeldsen and Stender, 2022; Sanga, 2022).

**Tenet 2: Integrated Urban Design and Planning**
Drawing on New Urbanism, this principle emphasizes the importance of MIH developments being embedded within thoughtfully designed urban spaces that promote walkability, connectivity, and mixed-use environments to foster sustainable and vibrant communities. It advocates for the design and planning of MIH projects to contribute to the creation of vibrant, sustainable communities where diverse populations can interact, live, and thrive. This contributes to enhancing social interactions and community vitality in diverse urban settings while promoting environmental sustainability and urban connectivity, aligning with the goals of MIH developments (Bulger et al., 2023; Carmona, 2021; Cysek-Pawlak et al., 2022; Cysek-Pawlak and Pabich, 2021; Grant, 2023; Smith, 2002a).

**Tenet 3: Participatory Governance and Inclusivity**
This tenet stresses the role of participatory governance in the planning and implementation of MIH projects, highlighting the importance of ensuring equitable access to resources and meaningful participation. It ensures that the voices of all stakeholders, especially residents of diverse income levels, are heard and integrated into decision-making processes. It aligns with social justice principles by advocating for equitable access to resources, inclusive policymaking, and ensuring that MIH developments serve the needs and aspirations of the entire community. It examines how participatory governance can improve urban development outcomes by involving diverse community members in the decision-making process, fostering more equitable and inclusive urban spaces (Anastasiu, 2019; Andrew-Amofah et al., 2022; Archibugi, 2019; Bulger et al., 2023; Carmona, 2021; Kjeldsen and Joseph, 2024; Sanga, 2022; Simbanegavi, 2019).

**Tenet 4: Sustainability and Resilience**
Acknowledging the urgent need for urban developments to be environmentally sustainable and resilient, this principle integrates green building practices and technologies within MIH developments. It encourages the adoption of designs and infrastructures that minimize environmental impact, promote energy efficiency, and contribute to the long-term resilience of urban areas against climate change and other urban stresses (Anastasiu, 2019; Archibugi, 2019; Bulger et al., 2023; Fama and French, 2004; Griggs et al., 2013; Hopkins, 2019; Jeddi Yeganeh et al., 2019; Long and Rice, 2019; Nkhonjera, 2020; Simbanegavi, 2019; Smith, 2002a; Tsenkova, 2021; Weaich et al., 2023; Yeganeh et al., 2019).

**A Synthesized Framework for Sustainable Urban Housing**
By synthesizing insights from investment theory, social equity, and New Urbanism, this new theoretical framework for MIH development through the lens of Equitable Urban Investment Theory (EUIT) offers a comprehensive approach that values economic feasibility, social justice, participatory urban planning, and environmental sustainability. It guides the development of MIH projects that are not only financially viable but also contribute to the creation of inclusive, resilient, and sustainable urban communities. This novel framework encourages a shift in perspective among developers, policymakers, and urban planners towards embracing a more integrated and multidisciplinary approach to urban housing developments (Weaich et al., 2024).

**Defining Equitable Urban Investment Theory (EUIT)**
EUIT Framework for Sustainable MIH Development

The Equitable Urban Investment Theory (EUIT) is a comprehensive theoretical framework crafted from epistemological (theory of knowledge) insights spanning two decades to guide MIH developments toward economic, social, environmental, and governance excellence. It stands on four core tenets that interact to ensure MIH projects are not only financially sound but also socially just and environmentally sustainable, ultimately leading to resilient urban communities, defining an ‘end goal’ to MIH developments (Aristotle and Ross, 2009). The first tenet, “Economic and Social Value Co-creation,” asserts that MIH should yield financial returns while generating substantial social benefits, enhancing community welfare and social integration. The second tenet, “Integrated Urban Design and Planning,” draws from New Urbanism, emphasizing the need for MIH developments to foster walkability and connectivity, contributing to vibrant and sustainable communities. “Participatory Governance and Inclusivity,” the third tenet, prioritizes the involvement of all stakeholders, particularly residents, in decision-making processes, promoting equitable access and ensuring MIH developments align with community needs. The final tenet, “Sustainability and Resilience,” highlights the importance of embedding green building practices within MIH projects to minimize environmental impact and foster adaptability to urban stresses.

Visualizing Equitable Urban Investment Theory (EUIT)

Figure 1: Theoretical Framework for Equitable Urban Investment Theory (EUIT)

Empirical Literature Review: MIH Development, Economic Viability and Social Equity
MIH as a Strategy for Inclusive Urban Development

The concept of MIH has garnered increasing attention as a strategy to address urban inequality and promote inclusive urban development (Blimpo et al., 2020; Owens et al., 2018). Rooted in the principles of the Equitable Urban Investment Theory (EUIT), MIH balances economic viability with social equity, drawing from investment theory, social equity, and urban planning principles (Blimpo et al., 2020; Lehmann-Hasemeyer et al., 2023; Naseemullah, 2023; Owens et al., 2018). This literature review explores the foundational concepts underpinning MIH, assesses key success factors, and identifies challenges within the South African context, offering a comprehensive analysis through the lens of EUIT. Investment theory, traditionally focusing on the economic dimensions of housing projects, underscores the importance of financial sustainability (Fama and French, 2004). However, solely economic evaluations often overlook the social dimensions integral to urban living (Cattaneo et al., 2022; Smith, 2002b). Fainstein, (2014) introduces the concept of “The Just City,” advocating for urban development that prioritizes fairness, diversity, and equity. This social justice perspective is complemented by social urbanism, which emphasizes design and planning principles that foster sustainable and vibrant communities (Bradlow, 2024).

Characteristics of Successful Global MIH Developments

Globally, successful MIH developments share common characteristics: market-rate developments with uniform designs, high employment rates among residents, and effective asset management (Khadduri and Martin, 1997; McConnell and Wiley, 2011; Nauges and Whittington, 2017; Zizzamia, 2020). In South Africa, the potential of IHP in reshaping cities is contingent upon aligning developments with the needs of low/middle-income neighborhoods, supported by government subsidies (Klug et al., 2013). Onatu, (2012) highlights the necessity of private sector engagement, given local authorities’ financial constraints, correlating with historic texts (Brown and Ashman, 1996). Yet, the investment risks associated with legislative mandates and collaborative models underscore the need for a nuanced approach that considers location, design, and management strategies to enhance MIH’s viability and sustainability.

Limitations of Investment Theory and Social Equity in Urban Development

Investment theory has traditionally offered a narrow focus on the financial aspects of MIH, emphasizing economic sustainability but often overlooking broader social implications (Fama and French, 2004). Although this theory underlines the significance of economic viability, it marginalizes the qualitative dimensions of urban living, such as social inclusion, community engagement, and quality of life for residents (Gruis and Nieboer, 2004). Fainstein’s, (2014) concept of “The Just City” introduces a framework for urban development that prioritizes fairness, equity, and diversity. This approach shifts the focus from purely economic metrics to include social dimensions of MIH, advocating for developments that achieve financial sustainability alongside social equity and inclusiveness. By incorporating this theoretical perspective, MIH research can adopt a broader set of success metrics, including equitable access to amenities, social integration, and participatory governance, aligning with the Sustainable Development Goals (United Nations, 2015).

NIMBYism’s Impact on Mixed Income Housing Development

The phenomenon of NIMBYism significantly hampers the progress of MIH developments by deterring investment and complicating the development process, making it a
cumbersome and high-risk endeavor for stakeholders. This resistance often escalates into legal battles, primarily due to concerns over potential declines in neighborhood property values (Bone, 2019; Haffner and Hulse, 2021; Klug et al., 2013; Krings and Schusler, 2020; Summers and Fields, 2022; Wu et al., 2022). The pervasive negative perceptions surrounding MIH underscore a critical knowledge gap in both developed and developing contexts, despite the urgent demand for effective solutions to mitigate NIMBYism, as exemplified by service delivery protests in South African cities (Daryanto and Song, 2021; Devine-Wright and Quinn, 2020; Escalera-Reyes, 2020; Simbanegavi and Ijasan, 2022; Summers and Fields, 2022).

Assessing Viability and Sustainability in MIH Integration

A deeper exploration into the factors that underpin the viability and sustainability of MIH is essential for improving housing outcomes. The literature presents more questions than definitive answers on the principles guiding the integration within MIH, reflecting a lack of consensus on the optimal mix of income groups and the scale at which this mixing should occur to achieve desired social and economic benefits (Brandén et al., 2023; Galster et al., 2010; Galster, 2011; Joseph, 2019; Onatu and Baloyi, 2020). These inquiries touch upon the foundational aspects of MIH, such as the extent of income mixing, the demographic composition that constitutes an "ideal" mix, and the geographical scale pertinent to measuring this mix.

Strategies for Enhancing MIH Development and Investment through EUIT

Addressing these uncertainties, the current study endeavors to refine investment guidelines for MIH by evaluating the necessity of legal frameworks for enforcement, identifying effective strategies for delivery, and determining the optimal location, design, and management practices that contribute to the sustainable development of MIH. It seeks to establish how mixed-income communities can be engineered as viable investment assets, thereby enhancing the value provided to all stakeholders involved. This comprehensive approach aims not only to facilitate the successful implementation of MIH but also to align these developments with broader objectives of inclusivity and sustainability in housing policy. The South African landscape presents unique challenges for MIH, influenced by historical, socio-economic, and spatial factors. Despite the recognized need for such developments, barriers including the NIMBY syndrome, legislative complexities, and financial constraints persist. These obstacles underscore the critical role of adopting the EUIT framework, which emphasizes inclusive, participatory, and sustainable urban planning and development strategies.

Methodology

Qualitative Methodology for MIH Investment Analysis

Triangulated Qualitative Approach in MIH Research

This study employs a qualitative research methodology, utilizing semi-structured interviews with developers and NGOs actively engaged in housing development (Saunders et al., 2023). Complementing these interviews, guided and unguided site visits were conducted to gather non-participant observations between 2017 and 2018, alongside discussions with residents and real estate agents (Guest et al., 2006). This approach enabled the triangulation of data sources, wherein interview data were prioritized over information obtained from document reviews and non-participant observations, reflecting a comprehensive multi-method strategy (Barnham, 2015). Preliminary data collection
included site visits, initial interviews, and spontaneous face-to-face interviews, generating handwritten notes that were subsequently incorporated into the study (Couper, 2017). This data collection process was designed to capture nuanced responses to specific questions, facilitating thematic analysis through color coding in an iterative manner, in line with the methodologies proposed by Sousa and Rojjanasrirat, (2011), Polit and Beck, (2010), and Adams et al., (2016). The purpose was not to amass a large number of informants but rather to reach a point of saturation through exhaustive data collection, with interviews ranging from 20 minutes to one hour in duration (Guest et al., 2006).

Semi-Structured Interviews for In-Depth MIH Analysis

Semi-structured interviews probed into the theoretical convergence derived from literature, promoting a thorough examination of pertinent issues related to mixed housing developments (Saunders et al., 2023). The validation of emergent themes was pursued in a subsequent phase of data collection, wherein six expert informants were engaged to synthesize and contextualize the diverse perspectives unearthed from the initial interviews. A non-random, purposive selection strategy was employed, targeting individuals with a minimum of three years' experience across sectors pertinent to MIH developments, thereby ensuring that informants possessed the requisite depth of knowledge (Saunders et al., 2023). Data was primarily gathered from developers, estate agents, government departments, residents of Cosmo City, neighboring community members, NGOs, and financial institutions, culminating in a robust dataset derived from 20 informants. This methodological framework underscores the study’s commitment to capturing a comprehensive understanding of MIH developments through a meticulously structured qualitative inquiry (Curran, 2016).

Table 1: Informant Profiles and Data Collection Methods for Mixed Income Housing
(Source: Authors)

<table>
<thead>
<tr>
<th>No.</th>
<th>Profession</th>
<th>Role</th>
<th>Type</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6th annual Africa Property Investment (API)</td>
<td>Analyst</td>
<td>Documents &amp; Observation</td>
<td>2015</td>
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<td>2</td>
<td>Developer</td>
<td>Manager</td>
<td>Personal</td>
<td>6-May 2017</td>
</tr>
<tr>
<td>3</td>
<td>Estate Agent</td>
<td>Manager</td>
<td>Personal</td>
<td>20-May 2017</td>
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<tr>
<td>4</td>
<td>Banker</td>
<td>Investment Analyst</td>
<td>Personal</td>
<td>27-May 2017</td>
</tr>
<tr>
<td>5</td>
<td>Developer</td>
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Employing the Delphi Method in MIH Research Analysis
In this study, the Delphi method served as an instrumental tool for engaging experts in evaluating the research findings. Through this iterative process, experts deliberated on the results, employing theoretical replication to reconcile opposing perspectives and establish a consensus (Linstone and Turoff, 1975). Consistent with the recommendations of Lancaster, (2017), pseudonyms were utilized to maintain the anonymity and confidentiality of participants. The flexible nature of the open-ended, semi-structured conversational approach facilitated dynamic two-way communication (Alam, 2024; Yin, 2015). This methodology enabled the corroboration of findings related to MIH implementation and investment guidelines.

Utilizing NVivo for Thematic Analysis
Depth was achieved using Non-numerical Unstructured Data Indexing Searching (QSR NUD*IST) Vivo (NVivo 11), a software designed for sophisticated qualitative data analysis. NVivo was utilized to conduct an extensive thematic analysis aimed at refining the implementation investment guidelines for future MIH developments, as summarized in Figure 2. The use of NVivo facilitated the extraction of nuanced insights and fostered the integration of diverse viewpoints into a coherent set of guidelines for MIH investment, enhancing the study’s contribution to the field (Burgis-Kasthala et al., 2024).

Figure 2: Analytical Framework for Evaluating MIH Investment Strategies Using Thematic Analysis (Source: Authors)
Analysis of Data

**NVivo-Enhanced Analysis for MIH Investment Insights**

*Insights from NVivo Analysis on MIH Investments*

Utilizing analytical tools such as ‘framework analysis,’ ‘word maps,’ ‘cluster nodes,’ and ‘explore’ functions within NVivo, a meticulous content analysis was conducted using Excel. This process illuminated both congruent and divergent patterns that elucidated guidelines based on informant perspectives regarding the risk-return trade-offs of MIH investment. Thematic analysis facilitated the uncovering of latent meanings and investor preferences related to MIH developments. Within the South African context, the enduring legacy of apartheid imbues racially integrated neighborhoods with novelty and complexity. Promoting integration through the creation of inclusive outdoor spaces offers a potential pathway to address this challenge (Landman and Du Toit, 2014). The application of abductive reasoning within the thematic analysis identified key viewpoints that could potentially ameliorate existing challenges within MIH developments. Nonetheless, it is important to acknowledge the potential for subjective bias among informants, given the sensitive nature of MIH developments in South Africa, where the concept inherently involves the integration of disparate socio-economic groups, often interpreted as the cohabitation of historically segregated racial groups within the same housing structures.

**Cluster Analysis Insights on MIH Policy and Integration**

Cluster analysis has yielded pivotal insights into the debate over whether Inclusive Housing Policy (IHP) should evolve into legislation or remain as a policy directive. This analytical approach grouped themes related to race and income level integration, grounds for IHP opposition, and strategies for the sustainable development of MIH. A significant revelation of this analysis is the active role of IHP as a governmental tool for fostering integration within residential markets. A color-coded thematic cluster associated with PPPs identified crucial factors such as adept asset and property management, institutional support structures, comprehensive amenities, investor preferences, and financial grants as integral to creating viable and sustainable MIH initiatives led by the private sector. This convergence of themes points towards a consensus on MIH as an attractive proposition for the private sector, contingent on enhanced investor incentives and amenity offerings within housing.
developments. The analysis further indicates an imperative to augment subsidy allocations as part of the incentive-based financing model, addressing the costs associated with land acquisition, land infill, restitution, and the strategic placement of MIH on urban peripheries—thus underscoring the critical nexus between land-related issues and MIH viability. The thematic clusters revealed a motivation within MIH developments for ‘pepper potting’—a typology that promotes integration by dispersing subsidized housing units among market-rate homes, aiming to prevent socioeconomic segregation and foster inclusive communities.

Word Map Analysis and Delphi Validation

The word map analysis within the context of MIH discourse revealed the prominence of terms such as ‘housing developments’ and ‘people,’ underscoring the fundamental aim of MIH projects: to serve the needs of the populace. Conversely, terms like ‘land,’ ‘government,’ ‘MIH,’ and particularly ‘rich,’ ‘poor,’ ‘affordable,’ and ‘mixing’ were less prominent yet intrinsic to the discourse. This visualization reaffirmed that the essence of MIH developments is to provide housing solutions responsive to the demands of the community. To validate these findings and achieve consensus on emergent and seemingly contradictory themes, the Delphi method was employed—a structured process of expert consultation that seeks to converge opinions on specific issues (Renzi and Freitas, 2015). Participants in the Delphi panel were tasked with evaluating the feasibility of the proposed guidelines for MIH implementation, particularly those designed to mitigate the effects of NIMBYism in South African MIH initiatives. The systematic application of Delphi validation interrogated the guidelines' viability, refining the recommendations to ensure their alignment with the operational realities of MIH development and societal acceptance.

Findings and Discussion

Comprehensive Findings on MIH Development Strategies

Six Thematic Insights for Inclusive MIH Development

The study elucidates six salient themes that align with the objectives of United Nations Sustainable Development Goal 11, which strives to cultivate cities that are inclusive, safe, resilient, and sustainable. Anchored in investment theory, the research methodically constructs a set of logical guidelines for the development of inclusive housing through a rigorous content analysis of interview data, with South Africa serving as the contextual backdrop. The subsequent sections distill these findings into six thematic areas that collectively provide a roadmap for advancing inclusive urban development within the framework of MIH.

MIH Viability Beyond Legislative Mandates in South Africa

MIH Success Independent of IHP Legislation

The study’s findings indicate that MIH developments are viable without the necessity of IHP becoming legislated. As illustrated in Figure 3, approximately 70% of informants categorized as managers perceived no requirement for IHP to transition into law. This perspective aligns with the insights of Khadduri and Martin, (1997), who posited that MIH could function effectively without dedicated policies, provided that mechanisms are in place to subsidize housing for the lowest income segments of the population.

Figure 3: Informant Agreement on the Necessity of Inclusionary Housing Policy Legislation for Successful MIH Development
IHP’s Role in Supporting Affordable MIH Developments

The implementation of IHP has been deemed adequate in its current form. Legislation of IHP is not imperative, as the existing policy framework sufficiently compels the inclusion of affordable housing units within MIH developments through strategic negotiation leveraging bulk infrastructure commitments. Detailed examination indicates that the provision of government grants, including Urban Settlements Development Grants (USDGs), Human Settlements Development Grants (HSDGs), and Department of Energy subsidies, are instrumental in encouraging the integration of affordable units into MIH projects. Without these financial supports, MIH developments would struggle to achieve economically viable yields. An MIH development that amalgamates Reconstruction and Development Programme (RDP) housing, Finance Linked Individual Subsidy Programme (FLISP) units, rentals, and upscale residences can effectively utilize the Restructuring Capital Grant (RCG) alongside other institutional subsidies. These subsidies are critical for promoting the development of rental housing stocks in proximity to Transport Oriented Developments (TODs), enhancing the accessibility and affordability of housing in well-located urban areas.

PPPs and NGOs as Keys to Sustainable MIH Implementation

PPP Model: A Catalyst for MIH Development Success

A substantial 95% of informants advocate for a robust PPP model in housing delivery, suggesting contractual provisions that compel developers to incorporate affordable residential units into new MIH projects. Such financing incentives under PPP agreements are instrumental in enabling stakeholders to significantly shape the scope and scale of MIH development. Effective PPPs have the transformative capacity to render MIH developments not only viable but also sustainable investment avenues. A successful PPP arrangement empowers developers to assume responsibility for constructing well-built structures. This research demonstrates that the most efficacious institutional structure materializes when private developers furnish municipalities with Urban Management Grants (UMG), with the expectation of long-term financial recuperation. Such grants bolster the essential maintenance of roads, water, and sewage systems at the nascent stages of MIH development, fortifying the infrastructure against potential overburdening and public health crises like cholera outbreaks.

NGO and PPP Collaborations Boost MIH Sustainability

Despite challenges, notable interest from entities such as the World-Wide Fund (WWF) and Nedbank Green Trust (NGT) signals an affirmative response to initiatives aimed at reducing
household utility expenses by approximately 45%, thereby promoting healthy, green, and resilient affordable housing (Simbanegavi and Ijasan, 2022; Weaich et al., 2023). The collaborative model, epitomized by Enterprise Community Partners’ investment, emphasizes PPPs as the cornerstone of sustainable housing delivery, resonating with the assertions of Khadduri and Martin, (1997). Financing through the provision of bulk infrastructure and social amenities fosters an environment where government requisites for unit allocations in exchange for its investments pave the way for a systematic and integrated housing delivery. In essence, the PPP model facilitates stakeholder engagement in housing provision and development scale, underscoring the viability of PPPs to ensure housing quality and consistency, driven by the private sector while supported by government facilitation. Increased subsidy grants are imperative to elevate the standards and size of housing within MIH projects, thereby ensuring equitable and integrated neighborhoods. This presents an opportunity for construction companies and governments to align efforts, sharing costs for infrastructure improvements and enhancing the feasibility of development. The inclination among investors toward affordable housing as a low-risk, stable return venture is made possible through these institutional collaborations.

**Strategic Funding and Regulation in MIH Development**

The findings culminate in a consensus among informants: municipalities are urged to implement building and town planning regulations to eliminate informality within MIH developments. However, the allocation of equitable share funds remains contentious, contingent upon the extent of informal settlements within a municipality’s jurisdiction. Consequently, cities with fewer informal settlements are compelled to allocate their own funds to support new housing initiatives. The study further illuminates the pivotal role of funding from organizations like the WWF and NGT, as well as the Gauteng Partnership Fund (GPF), in advancing sustainable MIH models.

**Greenfield vs. Brownfield: Preferences in MIH Development**

**MIH Development: Private vs. Government Site Preferences**

Within the private sector, a substantial 70% of informants favor greenfield sites for MIH development, citing the potential for superior design options and a diverse mix of housing typologies, as presented in Figure 4. Conversely, government sector informants display a unanimous preference for brownfield sites, revealing a stark dichotomy in locational priorities for MIH initiatives.

**Figure 4:** Sectoral Preferences for MIH Development Locations
MIH Locational Preferences by Sector Analysis

Figure 4 compares the locational preferences for MIH developments across three different sectors: Government, NGOs, and the Private sector. It shows that government informants overwhelmingly prefer brownfield sites, while the private sector largely favors greenfield locations. NGOs appear to have a more balanced view but show a slight preference for former townships. A small proportion of private sector respondents are indifferent to the site location.

Debating MIH Locations: Economics, Equity, and Urban Integration

The siting of MIH developments is a subject of considerable debate within the academic literature. Developers advocate for the placement of MIH’s on urban peripheries, asserting that these locales are not only market-driven but also yield greater profitability due to lower land costs and, consequently, higher investment returns. In contrast, residents from less privileged backgrounds express a preference for a job-housing equilibrium, with artisans and informal sector workers desiring proximity to economic centers to reduce commute times and enhance livelihood opportunities. The government’s stance aligns with the desire to redress the spatial legacies of apartheid. By situating MIH developments in more affluent neighborhoods, the aim is to dismantle segregated urban structures, foster socio-economic integration, and, critically, restore historically dispossessed black communities to their ancestral lands. This approach positions restitution as a key driver of urban redevelopment within economic hubs. Nonetheless, the feasibility of this approach is challenged by the escalating costs associated with land near economic zones and the inevitable scarcity of such land as development progresses.

Greenfields for MIH: Balancing Viability with Community Needs

The discourse contends that developing MIH’s in greenfield areas is acceptable, provided that these new developments are complemented by necessary amenities and infrastructure that enrich residents’ quality of life. This perspective is grounded in location theory, which posits that properties near commercial centers, infrastructure, and transport networks command higher values than those located farther afield. There is a shared agreement among stakeholders that the success of new MIH projects hinges on the inclusion of essential community facilities, such as schools and parks. A strategy proving effective is the cross-subsidization of public housing units with those at market rates, enabling a diverse community composition while maintaining economic viability.
Income-based Zoning in MIH: A Strategy for Success

Strategies for Effective MIH Developments: Beyond Segregation

Informants expressed a preference for MIH developments that integrate low, middle, and high-income neighborhoods, not through physical barriers like walls but via demarcations such as roads. The integration and management of RDP subsidy housing within MIH’s are seen as critical to their success. There is a prevalent view that ‘pepper-potted’ designs do not align with South African urban dynamics due to concerns such as elevated crime rates. Instead, a more effective MIH investment would offer varied housing typologies catering to diverse income levels. Open plan designs are suggested as a measure to combat crime, encouraging pedestrian movement to amenities and TODs. A significant 70% of informants indicated cultural issues such as noise and crime among the poorer populations as challenges within MIH’s. Simbanegavi, (2019) advocates for a universal, community-centric strategy to tackle these urban housing challenges, including infrastructural improvements within TODs located in greenfield MIH developments. This approach would integrate businesses and amenities, creating vibrant communities. The focus for sustainable MIH should be on income diversity in housing rather than on race, religion, or culture, with most informants disfavoring the ‘pepper-potted’ approach as ineffective in poverty deconcentrating or racial integration.

Solutions for Mixed-Income Housing Sustainability

The presence of poorer populations in MIH’s close to economic hubs may pose marketing challenges for the sale and rental of properties within these developments (Woo et al., 2016). However, successful, and sustainable MIH’s can bolster municipal revenue and property values, contingent on residents contributing to municipal funds. Contrasting with South African practices, the United States employs a rental voucher system to facilitate mobility of low-income individuals to more affluent neighborhoods, although this system is not without its issues, as property owners may prefer wealthier tenants. An inclusive MIH design would also account for the needs of the elderly and impoverished, with a structured division between subsidized and market-rate sections. Entities such as the Johannesburg Social Housing Company (JOSHCO) and the Johannesburg Housing Company (JHC) play pivotal roles in this aspect. Ensuring the demand-driven nature of all rental components is crucial for the longevity of the social housing aspect of MIH’s, which are overseen by an accrediting body such as the Social Housing Authority Board (SHAB).

Optimizing Asset and Property Management for MIH Sustainability

Advancing MIH Through Strategic Asset Management

Informants advocated for an advanced asset and property management strategy that integrates investment performance metrics, thereby enhancing the viability and sustainability of MIH developments. Such managerial proficiency is critical for realizing greater investment returns and mitigating risks. This aligns with the views of Gruis and Nieboer, (2004), who posited that effective asset management strategies can expand housing supply, while improved property management sustains the stock, particularly within the social housing segment of MIH. The employment of asset and property management tools is deemed essential for the enduring success of MIH’s; in their absence, MIH’s risk degenerating into low-income areas plagued by crime (Simbanegavi et al., 2021).

Critical Role of Asset Management in MIH Success
Asset management remains imperative for sourcing land for new developments. Government entities like the Housing Development Agency (HDA) are pivotal in acquiring land through governmental efforts, a critical step in diminishing land costs that contribute to the high expense of housing. In concurrence with Gethe and Simbanegavi, (2022), Informant 2 emphasized the necessity for municipalities to implement occupancy certificates and collect revenue for reinvestment in similar projects to capture and maintain land value. Buron et al., (2006) underscored the importance of enhancing marketing strategies for properties within sustainable MIH’s. It is recommended that governmental controls be established to regulate activities within these developments and prevent informal practices. Experienced entities are crucial for managing these developments, with property management companies playing a vital role, particularly for the social rented components of MIH. The management of regulatory and incentive programs at the development level is essential, with training being a key component until such responsibilities can be transitioned to city authorities. Inadequate property management post-development can negatively impact the viability and sustainability of MIH developments.

**Strategies for Effective MIH Property Management**

A substantial majority of informants—85%—suggest that cities could establish property management offices or oversee body corporates, employing software like Novtel and MDA for meticulous reporting on maintenance costs. Maintaining positive tenant-property owner relations is essential to ensure consistent rental payments. Such initiatives could extend to cities supervising community associations that mitigate issues like illegal dumping. One informant highlighted the necessity for stringent occupancy controls to prevent epidemics related to infrastructure strain, with monitoring by City Planning departments being paramount. Motlhabane, (2015) suggests that the RDP housing delivery system requires effective monitoring to circumvent negative repercussions. While body corporates can be instrumental, formulating rules for common areas presents challenges. Therefore, training to curtail maintenance costs is crucial, particularly as social housing, a component of MIH, often incurs substantial upkeep expenses.

**Empowering Communities for Sustainable MIH Development**

**Skills Development: Foundation for Affordable Housing Access**

Informants highlighted the necessity of education and skills development as crucial for enabling households to afford units within MIH developments. Recognizing that MIH projects often extend over several years, the advancement of skills through SMMEs was seen as essential. Building officers, plumbers, bricklayers, and those with soft skills require training tailored to the needs of these developments. This initiative demands rigorous monitoring to maintain the quality of the housing units produced.

**Enhancing MIH Viability: Economic Integration and Transparency**

A critical consideration is the facilitation of industry relocation to greenfield sites designated for MIH developments. Approximately half of the informants emphasized the importance of sustainable ‘green wages’ to integrate workers into the broader economic framework. The equitable distribution of wealth, particularly through increased wages, is seen as imperative. Consequently, there is a call for augmented funding for informal trade sectors and education in financial management skills to enhance the affordability and sustainability of housing investments within MIH projects. Such measures are intended to address
historical challenges such as the non-payment of housing loans and service fee boycotts, which Tissington, (2010) identified as significant impediments to the success of social housing initiatives. The transparency of stock exchange-listed development companies is vital for allowing a more accurate assessment of residential market risks by investors, as posited by Boshoff, (2013). This transparency contributes to a more robust understanding of investment risks, potentially leading to a more stable and reliable residential investment market.

Conclusion

Guiding Future MIH Developments: An Integrated Approach

Strategic Guidelines for Sustainable MIH Development

The pivotal guidelines proposed for refining future MIH developments derive from theoretical constructs influenced by investment theory. These guidelines encompass fundamental risk mitigation principles recognized in literature, tailored specifically to MIH developments, with the ambition of achieving racial transformation, integration, and the alleviation of urban poverty through inclusive housing in South Africa. The elements of investment that facilitate these goals include:

- The enforceability of inclusive housing by policy or legal means
- An optimal PPP delivery model
- Strategically chosen locations for MIH
- A considered approach to the mix of households in terms of design, racial background, and socioeconomic status; and
- Refined asset and property management strategies to ensure MIH developments are both viable and sustainable.

Optimizing MIH: Policy Over Legislation through PPPs

The research critically examined the debate over whether MIH should be legislated or remain as policy. The findings indicate no necessity for IHP to transition into law when MIH delivery is effectively executed via a well-structured PPP model, allowing for a shared distribution of risks and rewards between the government and private entities. The conversion of policy into law is deemed unnecessary when strategic negotiations tied to bulk infrastructure provision can enforce the inclusion of a reasonable proportion of low-income housing units within MIHs, ensuring the attainment of the socio-economic objectives of inclusive housing.

It is envisioned that government and municipalities would supply land and essential services, thereby reducing developers’ costs and enabling the private sector to construct quality housing that preserves investment value over time. The ideal scenario for creating viable and sustainable MIH developments hinges on a synergistic PPP framework, positioning MIH as an investment asset beyond a government-mandated socio-spatial initiative. This perspective can unlock significant funding for MIH developments to enhance housing quality and mitigate NIMBYism. Fundraising through partnerships provides tangible solutions for housing finance deficits, with the public sector bargaining for units of affordable housing in return for financial and infrastructural contributions. Engaging private sector investment for infrastructure improvements enhances the feasibility of development, presenting affordable housing as a low-risk investment with a stable return. Affordability, paired with sustainable locations like Greenfields, equipped with infrastructure and
services, bolsters MIH developments. South African communities are receptive to the notion of integration, particularly in MIHs equipped with enhanced amenities and services.

**MIH’s Role in Achieving Sustainable Urban Integration**

The sustainability of MIHs rests on creating diverse income segments within a single development, demarcated by roads rather than dispersing lower-income households throughout. This structure allows for financial mobility within the community. Properly adjusted asset and property management strategies can ensure the long-term sustainability of MIH developments by fostering effective resource allocation and revenue collection akin to a real estate enterprise, thus maintaining the viability of MIH investments. Without such strategies, MIHs risk degenerating into neglected low-income housing. MIH developments that transcend low-income stereotypes can become thriving mixed-use green communities, potentially curbing NIMBY sentiments and stabilizing house prices.

In the absence of MIHs, the poorest urban dwellers in South Africa are likely to persist in substandard living conditions. Statistics from Stats SA reflect that over 30.4 million South Africans were living in poverty in 2015, based on the Upper-Bound Poverty Line (UBPL) of R992 per person per month in 2015 prices, underscoring the urgency for inclusive housing solutions (Kruger, 2018).

**Recommendations**

**Investment Strategies for Sustainable Mixed-Income Housing**

**Addressing the Challenges and Policies for Inclusive Urban Housing**

The persistent housing shortfall, exacerbated by global financial crises, environmental disasters, political and religious unrest, migration, population growth, and escalating urbanization rates, presents a formidable challenge for South Africa and many other nations (Myeni and Okem, 2019). The effective functioning of residential markets, within the context of existing policies, initiatives, and programs, is essential to uphold housing as a human right, as recognized by UN-HABITAT, and to fulfill the United Nations Sustainable Development Goal 11, which aspires to create cities that are inclusive, safe, resilient, and sustainable. The IHP stands out as a pivotal urban policy driving sustainable MIH developments that foster inclusivity in housing. Yet, MIH developments are often hindered by NIMBYism, slowing down development processes and impeding the flow of investments into these projects, posing risks to stakeholders.

To address these challenges, the study sets forth several recommendations for all stakeholders within the MIH residential market:

- Reposition MIH as an Investment Asset: Move beyond a government-led social-spatial transformation program to provide clearer implementation paths for inclusive housing policies.
- Incentivize Market-Driven Solutions: Allow the private sector to capitalize on its strengths, while the public sector focuses on regulation and monitoring.
- Support from Government and Municipalities: Provide land and infrastructure to lower service costs for investors.
- Capitalize Subsidies into Affordable Units: Prevent an imbalance of investment returns favoring the private sector by ensuring subsidies are used to create affordable units.
- Enhance Community-Based PPPs: Address inefficiencies in government housing provision and self-interest in the private sector through community-based partnerships.
• Conduct Feasibility Studies: Understand neighborhood expectations and devise successful MIH strategies, acknowledging that compensating for house price reductions might be impractical in developing countries.
• Improve Security Services: Alleviate apprehensions toward MIH, typically occupied by lower-income and black communities.
• Integrate Mixed-Use Designs: Plan future MIH developments in greenfield locations to ensure the functionality of all housing components.
• Include Complementary Infrastructure and Amenities: Ensure new greenfield MIHs are comprehensive and self-sufficient neighborhoods.
• Collaborate with Management Companies: Municipalities should work with management firms to secure land and infrastructure, supported by various grants.
• Adopt an Income-Based Criterion: Create multi-tenured MIHs without racial segregation.
• Promote Diversity in Rented MIH Sectors: Mixing diverse communities can be successful, especially among the youth, promoting equality and cohesion.
• Facilitate Skills Development through SMMEs: Provide employment opportunities to help tenants meet their financial obligations.

These guidelines are designed to navigate the complexities of MIH development, ensuring that such initiatives contribute constructively to urban environments and support the growth of vibrant, inclusive communities.

**Strategies for Inclusive Urban Housing Development**

**Guiding Sustainable Mixed-Income Housing Development**

The realization of sustainable MIH developments is crucial for addressing the growing need for inclusive urban housing. To navigate the complexities inherent in such ventures, it is imperative to establish a framework that prioritizes the integrity and effectiveness of policy implementations, maintains the diversity of income groups, leverages urban land for social equity, and capitalizes on the investment potential of MIH developments. This paper explores strategic guidelines that can steer the future of MIH projects towards achieving these objectives:

• Rigorous Monitoring and Evaluation: Ensure that government grants and funds calculated for subsidies are effectively translated into low-income housing within MIH developments.
• Maintain Sustainability of MIH Developments: Focus on creating developments that retain their mixed-income character into the future.
• Incorporate Urban Regeneration Programs: Utilize undeveloped restitution land to construct necessary housing proximal to economic centers.
• Leverage Mixed-Use Developments in Greenfield Areas: Present MIH projects as valuable real estate investments, offering quality housing that sustains its worth over time.
• Partner with Skilled Asset and Property Management Firms: Ensure that MIH communities do not devolve into impoverished neighborhoods.

The journey towards establishing successful and enduring MIH developments necessitates a multifaceted approach that aligns policy, investment, and community objectives. Monitoring and evaluation of incentive-based policies, coupled with strategic investment in diverse, mixed-income communities, can result in sustainable urban growth and
regeneration. The utilization of land for equitable housing development near economic centers, combined with the investment allure of greenfield mixed-use projects, offers a pathway to quality, valuable housing. Municipalities have a critical role to play, working in tandem with property management experts to maintain the standards and desirability of MIH neighborhoods. In synthesizing these strategies, we pave the way for MIH developments that not only meet the immediate housing needs but also contribute to the long-term socio-economic dynamism of urban landscapes, embodying the essence of inclusive living spaces.

**Limitations of the Study**

*Balancing Perspectives in Housing Research*

While interview data provides a wealth of forward-looking perspectives, it is susceptible to the influence of subjective opinions, potentially biased by informants’ affiliations or company perspectives. To mitigate these limitations and enhance the objectivity of the research, this study incorporated document reviews and non-participant observations, adopting a contextually interpretive approach in both data collection and analysis phases. Additionally, the Delphi method was employed to convene experts in a systematic evaluation of the research findings, thereby bolstering the robustness and credibility of the study’s conclusions.

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**Conflicts of Interest**

The authors declare no conflicts of interest.

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**Data Availability Statement**

The dataset analyzed during the current study is not publicly available due to concerns regarding personal privacy and confidentiality. The research dataset involves sensitive information that could potentially identify individual participants, necessitating stringent measures to protect privacy in accordance with ethical guidelines and legal requirements. Access to the data is restricted to the research team and is unavailable to the public. The data used is depicted in Table 1: Informant Profiles and Data Collection Methods for Mixed Income Housing.

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