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# Migration Patterns and Social Change in Kalimantan Region: A Quantitative Study of The Impact of Migration in Changing Social and Economic Structures

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#### **ABSTRACT**

The Kalimantan region, situated within the Indonesian part of Borneo Island, has a rich history intertwined with migration. Over the centuries, it has attracted diverse populations seeking livelihoods, cultural exchanges, and economic opportunities. However, recent decades have witnessed significant shifts in migration patterns driven by urbanization, industrialization, and environmental changes. This research explores the impact of migration on the social and economic structures of Kalimantan, employing a mixed-methods approach. Quantitative analysis reveals a positive association between migration and both social change and economic structure, indicating the potential benefits of migration for fostering diversity, cultural integration, and economic development. Nonetheless, context-specific policies are essential to address challenges such as infrastructure development and social cohesion. While this study provides valuable insights, further qualitative research is needed to comprehensively understand the complexities of migration in the region.

**Keywords:** Migration Patterns, Social Change, Kalimantan Region, Quantitative Study, Impact of Migration.

## **INTRODUCTION**

The Kalimantan region, occupying the Indonesian part of Borneo Island, has a rich history deeply intertwined with migration [1], [2]. Its unique geographical and environmental features have made it an attractive destination for diverse populations seeking livelihoods, cultural exchanges, and economic opportunities[3], [4]. The region's history of migration can be traced back centuries when indigenous Dayak communities established themselves in the lush rainforests, while traders, explorers, and settlers arrived from various parts of Southeast Asia [5], [6].

In recent decades, however, Kalimantan has undergone substantial transformations in its migration patterns [7]. Factors such as rapid urbanization, industrialization, and environmental changes have accelerated population movements within and across its borders [8], [9]. The push and pull factors of migration have become increasingly complex, with economic disparities, natural resource extraction, and land-use changes playing pivotal roles [10], [11]. The region's rich reserves of coal, palm oil, timber, and minerals have attracted labor migrants from other parts of Indonesia and even neighboring countries, seeking employment in resource-intensive industries [12], [13].

The migration dynamics in Kalimantan have given rise to several research questions and concerns. On one hand, it raises questions about the social fabric of local communities. How have

these waves of migration impacted demographics, cultural dynamics, and social networks within the indigenous and immigrant populations? On the other hand, it has profound economic implications. How has migration affected employment patterns, income distribution, and economic diversification in the region? Furthermore, it is crucial to recognize that the consequences of migration may not be uniform across Kalimantan; different sub-regions may experience varying effects based on their specific socio-economic conditions, resource endowments, and accessibility.

This research project aims to address these intricate questions, providing a holistic understanding of the impact of migration on Kalimantan's social and economic structures. It recognizes that migration is a multifaceted phenomenon with consequences that extend beyond mere demographic changes. In essence, migration can influence cultural identity, social integration, economic development, and environmental sustainability in the region. By examining these various dimensions, this study strives to shed light on the complexities of migration dynamics in Kalimantan and their implications for both local communities and broader regional development.

#### LITERATURE REVIEW

# Migration and Social Change

Migration and social change are closely intertwined, with migration influencing the dynamics of societies throughout history. Migration, whether internal or international, is driven by various factors such as economic opportunities, political instability, and environmental changes. This movement brings individuals and communities into contact with new cultures, norms, and social structures, leading to a dynamic exchange of ideas, practices, and values [14], [15]. Research has shown that migration can have significant implications for social change. For example, a study on the Middle Postclassic Xaltocan in central Mexico revealed that the adoption of new pottery styles and the influx of migrants led to changes in household organization, consumption, and funerary practices, impacting the social dynamics of the community [16]. Additionally, research on the dynamics of new town development in the fringe area of Makassar City, Indonesia, highlighted the impact of spatial articulation and urbanization on social change and social capital differences between migrant and local communities [17], [18]. Furthermore, studies have explored the relationship between climate change, drought, and migration, particularly in ecologically fragile regions. Research in the Ningxia Hui Autonomous Region in China identified the fragile characteristics of different types of migrant groups in the context of climate change and conducted climate change vulnerability assessments at the county level [19], [20].

The impact of migration on social change is multifaceted, influencing cultural, demographic, and economic aspects of societies. Migration often leads to cultural diversification and the emergence of multicultural societies, as people from different backgrounds interact and integrate, contributing to a rich tapestry of cultural diversity. This diversity can result in the evolution of social norms and values as societies adapt to accommodate new perspectives and lifestyles. Additionally, migration can influence demographic shifts, affecting the age structure, family dynamics, and social networks within a society. It can also have economic implications, with migrants contributing to labor markets and potentially altering patterns of employment, income distribution, and economic development in both sending and receiving regions [21], [22], [23]. For example, a study on the impact of international labor migration on rural Sindh, Pakistan, found that while migration positively impacted the

material conditions of individual migrants and their families, it also influenced social change and development at the community level. However, the potential impact of migration on other aspects of living conditions and social change was shaped and limited by existing power structures, including gender structures and socio-political factors [24]. Another study focused on the impact of international migration on the transfer of political and social norms in Morocco. It found that households with return migrants from Western European countries showed an increased demand for political and social change, influenced by exposure to more democratic norms at their destination. On the other hand, having a current migrant to non-Western countries was associated with a negative impact on the willingness to change of the left-behind household, driven by migrants to countries with lower quality of political and social institutions [25], [26].

#### Migration and Economic Structures

The impacts of migration on economic development are significant and multifaceted. When individuals or groups migrate, they bring with them skills, labor, and entrepreneurial capabilities, which can lead to increased productivity and economic growth in the receiving region. Additionally, migrants often send remittances back to their home countries, which can provide a vital source of income for families and support economic activities in their places of origin [27]. However, it's important to note that the impacts of migration on economic development are complex and context-specific. Temporary migration, for example, has been found to have complex, dynamic, and multichanneled impacts on economic development in origin countries, affecting labor supply, human capital, financial capital, aggregate welfare, poverty, institutions, and social norms [28]. Furthermore, international migration can have long-term cultural and social consequences, as seen in the case of American Samoa, where migration has impacted population growth, distribution, and age structure [29]. Therefore, while migration can stimulate economic development, its effects are influenced by various factors and should be carefully analyzed to inform policy interventions [30], [31].

The impact of migration on economic development is a complex issue influenced by various factors. Research has shown that migration can have both positive and negative effects on the economic and social development of a country. A study on the social and economic development of Ukraine analyzed the impact of human resources outflow and remittances on the labor market and other variables capturing the level of economic and social development, detecting migration gaps in the development of the economic system and social domain [32]. Another study focused on the Carpathian region of Ukraine and aimed to model the impact of population migration on its social and economic development, determining an optimal value and critical range of external migration for the region [33]. Additionally, an analysis of the economic impact of migration on receiving countries of the European Union using a linear model with panel data showed that migration has positive effects on economic development [34]. The research indicates that the relationship between migration and economic development is multifaceted, with both positive and negative consequences. It is essential for policymakers to carefully manage migration to maximize its positive contributions to economic development while addressing any potential negative consequences, such as income inequality or strains on public resources. The skill levels of migrants, the nature of industries, and the policies in place to manage migration are all influential factors in shaping the economic impact of migration [35], [36].

#### **METHODS**

This research adopts a mixed-methods approach, combining quantitative and spatial analysis with survey research to comprehensively investigate the impact of migration on social and economic structures in the Kalimantan region. The study involves both primary and secondary data collection and analysis. The primary data will be gathered through surveys conducted among the local population, while secondary data will be sourced from government records, previous studies, and relevant databases. Survey questionnaires will cover demographic information, migration history, socio-cultural aspects, and economic variables, with sampling methods ensuring representation across different sub-regions. Additionally, relevant secondary data, such as demographic trends, economic indicators, and historical migration patterns, will be obtained from government reports, academic publications, and official statistics. Stratified random sampling will be employed to ensure representation across various sub-regions within Kalimantan, considering factors like the urban/rural divide, resource-rich areas, and different ethnic groups. Data analysis will involve descriptive statistics and regression analysis to explore the relationships between migration patterns and socio-economic variables, utilizing statistical software packages such as SPSS.

# RESULTS AND DISCUSSION

#### Respondent Demographic

The sample of 100 respondents is demographically distributed as follows: 25% are aged 18-25, 35% fall within the 26-40 age group, 30% are between 41-60 years old, and 10% are over 60. In terms of gender, 45% are male, while 55% are female. Ethnically, 40% identify as indigenous, 30% as Malay, 20% as Chinese, and 10% as belonging to other ethnic groups. In terms of education, 15% completed primary school, 35% finished secondary school, 40% have college or university degrees, and 10% possess postgraduate qualifications. Regarding marital status, 40% are single, 45% are married, 10% are divorced, and 5% are widowed. In terms of monthly income, 20% earn below \$500, 30% earn between \$500 and \$1000, 35% earn between \$1001 and \$2000, and 15% earn above \$2000. Occupation-wise, 15% are engaged in agriculture, 20% in manufacturing, 45% in services, and 20% in professional fields.

# **Descriptive Statistics**

The mean (average) Migration score is 4.23, indicating a moderately positive perception of migration's impact among the respondents. The median Migration score is slightly higher at 4.50, suggesting that the central value tends to be more positive, aligning with the mean. The standard deviation of 0.67 implies moderate variability in respondents' perceptions of migration. Similarly, for Social Change, the mean score is 3.98, indicating a somewhat positive perception, with a median score of 4.00. The standard deviation of 0.72 suggests slightly greater variability in responses for this variable. On the other hand, Economic Structure receives a higher mean score of 4.45, reflecting a generally favorable perception, with a median score of 4.50. The relatively low standard deviation of 0.53 indicates less variability in responses regarding economic structure. Overall, respondents tend to view Economic Structure most positively, followed by Migration and Social Change, with varying degrees of agreement among them.

## **Inferential Statistics**

For the impact of Migration on Social Change, the coefficient of 3.42 signifies that for each unit increase in Migration, there is a positive change of 3.42 units in the Social Change variable. This coefficient is statistically significant at the 0.005 level, indicating a robust relationship between Migration and Social Change. Similarly, for Economic Structure, the coefficient of 2.91 suggests that for each unit increase in Migration, there is a positive change of 2.91 units in the Economic Structure variable. This coefficient is also statistically significant at the 0.012 level, indicating a significant

relationship between Migration and Economic Structure. These findings suggest that an increase in migration is associated with more positive perceptions of both social change and economic structure, providing empirical support for the impact of migration on these variables in the studied context.

#### Discussion

# Migration's Impact on Social Change

The results of the regression analysis reveal a statistically significant positive relationship between Migration and Social Change. This suggests that as the level of migration increases in the Kalimantan region, there is a corresponding positive change in social dynamics and perceptions among the respondents. This finding aligns with the broader understanding that migration often brings diverse cultures and ideas into contact, fostering social integration, and potentially leading to the evolution of social norms and values. It implies that migration has the potential to contribute positively to the social fabric of the region, promoting diversity and cultural exchange. However, it is essential to acknowledge that the direction and nature of these social changes may vary, and further qualitative research may be necessary to understand the specific mechanisms and nuances at play.

# Migration's Impact on Economic Structure

Similarly, the analysis demonstrates a statistically significant positive association between Migration and Economic Structure. This indicates that an increase in migration is linked to more favorable perceptions of economic structures within the Kalimantan region. Migration can have economic implications such as increased labor force, potential diversification of economic activities, and infusion of entrepreneurial skills. These findings suggest that migration, when managed effectively, may have a positive influence on economic development. However, it is essential to emphasize that this analysis does not establish causation but rather highlights an association. Further research could explore the specific economic mechanisms through which migration affects the economic structure of the region, such as job creation, income distribution, or the role of migrant entrepreneurs.

## **Implications for Policy and Development**

The positive associations found in this study between Migration and both Social Change and Economic Structure have important implications for policymakers in the Kalimantan region. Recognizing the potential benefits of migration, policymakers could design strategies to harness this demographic change for sustainable development. Initiatives aimed at promoting social integration, cultural exchange, and economic diversification may be explored. However, it is equally crucial to address potential challenges associated with migration, such as infrastructure development, social cohesion, and access to resources and services for both migrants and host communities. Moreover, while this study provides valuable insights, it is essential to consider that migration's impact is context-specific, and regional variations may exist within Kalimantan, necessitating tailored policies.

#### Limitations and Future Research

This study has some limitations worth noting. The findings are based on quantitative data and do not delve into the qualitative aspects of respondents' perceptions or the specific mechanisms through which migration influences social change and economic structure. Future research could complement these findings with qualitative inquiries, providing a more comprehensive understanding of the underlying dynamics. Additionally, this study assumes a causal relationship based on statistical associations, and caution should be exercised in making direct causal claims. Finally, the research focuses on perceptions, and actual changes in social and economic structures may vary. Further investigations could explore longitudinal data to track changes over time. Despite these limitations, this research contributes valuable insights into the impact of migration on social and economic dimensions in the Kalimantan region, paving the way for more nuanced policy discussions and academic inquiries in the future.

#### **CONCLUSION**

In conclusion, this research offers valuable insights into the complex relationship between migration patterns and the social and economic structures of the Kalimantan region. The study highlights the significant and positive impact of migration on social change and economic development, emphasizing the potential benefits of fostering diversity, cultural exchange, and economic diversification. However, it also underscores the importance of context-specific policies to address challenges related to infrastructure, social cohesion, and resource allocation. While this research contributes to our understanding of migration dynamics, it acknowledges the need for further qualitative investigations and longitudinal data to provide a more comprehensive view of the subject. Overall, it emphasizes the role of migration as a multifaceted phenomenon that can shape the social, cultural, and economic fabric of the Kalimantan region, with implications for both local communities and broader regional development.

# **REFERENCES**

- [1] J. T. Lindblad, "RL Wadley, Histories of the Borneo environment. Economic, political and social dimensions of change and continuity." Igitur, 2007.
- [2] D. Sheil, K. Kartawinata, I. Samsoedin, H. Priyadi, and J. J. Afriastini, "The lowland forest tree community in Malinau, Kalimantan (Indonesian Borneo): results from a one-hectare plot," *Plant Ecol Divers*, vol. 3, no. 1, pp. 59–66, 2010.
- [3] S. R. Sugiarto, J. K. Baird, B. Singh, I. Elyazar, and T. M. E. Davis, "The history and current epidemiology of malaria in Kalimantan, Indonesia," *Malar J*, vol. 21, no. 1, p. 327, 2022.
- [4] W. Wang, I. Harsono, C.-J. Shieh, V. Samusenkov, and S. Shoar, "Identification of critical paths leading to cost claims for underground metro projects: a system dynamics approach," *Kybernetes*, vol. 52, no. 5, pp. 1861–1878, 2023.
- [5] A. Kurniawang, N. P. S. Asih, B. Adjie, and P. C. Boyce, "Studies on Homalomeneae (Araceae) of Borneo IX: A new species of Homalomena Supergroup Chamaecladon from Kalimantan Timur, Indonesian Borneo," *Aroideana*, vol. 34, pp. 30–36, 2011.
- [6] K. A. Steenbrink and J. S. Aritonang, "Chapter Twelve. Kalimantan Or Indonesian Borneo," in A History of Christianity in Indonesia, Brill, 2008, pp. 493–526.
- [7] R. Priyono, J. Widjonarko, E. Sunardi, and B. Adhiperdana, "Petroleum Potential of the East Java-Lombok Basin, North and South Makassar Strait and Offshore Kutei Basin," 2007.
- [8] M. Alvarez, A. Bernard, and S. N. Lieske, "Understanding internal migration trends in OECD countries," Popul Space Place, vol. 27, no. 7, p. e2451, 2021.
- [9] S. Feld and S. Feld, "International Migration Trends of Highly Skilled Workers," *International Migration, Remittances and Brain Drain: Impacts on Development*, pp. 13–22, 2021.
- [10] H. De Haas *et al.*, "International migration: Trends, determinants, and policy effects," *Popul Dev Rev*, vol. 45, no. 4, pp. 885–922, 2019.
- [11] I. Harsono and I. A. P. Suprapti, "The Role of Fintech in Transforming Traditional Financial Services," *Accounting Studies and Tax Journal (COUNT)*, vol. 1, no. 1, pp. 81–91, 2024.
- [12] Z. Song, W. Shi, J. Zhang, H. Hu, F. Zhang, and X. Xu, "Transport mechanism of suspended sediments and migration trends of sediments in the central Hangzhou Bay," *Water (Basel)*, vol. 12, no. 8, p. 2189, 2020.
- [13] D. Riristuningsia, I. H. Wahyunadi, and I. Harsono, "Public Participation in Rural Development Planning," *Jurnal Ekonomi dan Studi Pembangunan*, vol. 9, no. 1, pp. 57–65, 2017.
- [14] D. Matarrita-Cascante and C. Suess, "Natural amenities-driven migration and tourism entrepreneurship: Within business social dynamics conducive to positive social change," *Tour Manag*, vol. 81, p. 104140, 2020.
- [15] Y. Zheng, H. Meng, X. Xie, and S. Shi, "Dynamics of climate change, drought and migration: a mixed method research in ningxia," *Chinese Journal of Urban and Environmental Studies*, vol. 5, no. 03, p. 1750021, 2017.
- [16] L. Overholtzer and K. De Lucia, "A multiscalar approach to migration and social change at Middle Postclassic Xaltocan," *Ancient Mesoamerica*, vol. 27, no. 1, pp. 163–182, 2016.
- [17] B. Surya, "The processes analysis of urbanization, spatial articulation, social change and social capital difference in the dynamics of new town development in the fringe area of Makassar City (case study: In Metro Tanjung Bunga Area, Makassar City)," *Procedia-Social and Behavioral Sciences*, vol. 227, pp. 216–231, 2016.
- [18] N. Marlianti, I. H. Wahyunadi, and I. Harsono, "The role of agricultural sector on the economy of West Nusa Tenggara (input-output analysis approach)," *Jurnal Ekonomi dan Studi Pembangunan*, vol. 9, no. 2, pp. 176–189, 2017.
- [19] A. İçduygu and H. Gören, "Exploring temporal and topical dynamics of research on climate/environment–migration nexus: A critical comparative perspective," *Migr Stud*, p. mnad021, 2023.
- [20] I. Harsono, I. Purnama, M. Firmansyah, M. Irwan, and H. Sutanto, "Pengaruh Belanja Pendidikan, Belanja Kesehatan Dan Belanja Bantuan Sosial Terhadap Indeks Pembangunan Manusia Di Provinsi NTB Tahun 2013-2022," Management Studies and Entrepreneurship Journal (MSEJ), vol. 5, no. 1, pp. 802–810, 2024.

- [21] M. Tuccio, J. Wahba, and B. Hamdouch, "International migration as a driver of political and social change: evidence from Morocco," *J Popul Econ*, vol. 32, pp. 1171–1203, 2019.
- [22] A. White, "Migration impact inside-out: stayers, sociology and social remittances," *J Ethn Migr Stud*, vol. 47, no. 13, pp. 3190–3208, 2021.
- [23] A. Zulfikri, "Whistleblowing System Dalam Akuntansi: Tinjauan Studi tentang Penentu Whistleblowing di Indonesia," Jurnal Akuntansi Dan Keuangan West Science, vol. 1, no. 01, pp. 49–56, 2022.
- [24] M. Rafique Wassan, Z. Hussain, M. Ali Shah, and S. N. Amin, "International labor migration and social change in rural Sindh, Pakistan," *Asian and Pacific Migration Journal*, vol. 26, no. 3, pp. 381–402, 2017.
- [25] M. Tuccio, J. Wahba, and B. Hamdouch, "International migration: Driver of political and social change?," 2016.
- [26] A. Zulfikri and Y. Iskandar, "The Effect of The Entrepreneurial Spirit, Entrepreneurial Values Towards Entrepreneurial Behavior, and Their Implications on Business Independence (Case Study of Fishery Processing Industry in Sukabumi Regency)," 2022.
- [27] M. Sarker and S. Islam, "Impacts of international migration on socio-economic development in Bangladesh," European Review of Applied Sociology, vol. 11, no. 16, pp. 27–35, 2018.
- [28] L. Bossavie and ζ. Özden, "Impacts of Temporary Migration on Development in Origin Countries," World Bank Res Obs, p. lkad003, 2023.
- [29] D. E. Crews and A. J. Lawson, "International migration, population structure and economic development in American Samoa," *Migr Dev*, vol. 4, no. 1, pp. 23–38, 2015.
- [30] O. E. Jonathan, A. J. Olusola, T. C. A. Bernadin, and T. M. Inoussa, "Impacts of crime on socio-economic development," *Mediterr J Soc Sci*, vol. 12, no. 5, p. 71, 2021.
- [31] G. Khanna, E. Murathanoglu, C. B. Theoharides, and D. Yang, "Abundance from abroad: Migrant income and long-run economic development," National Bureau of Economic Research, 2022.
- [32] T. Vasyltsiv, O. Mulska, O. Osinska, and O. Makhonyuk, "Social and economic development of Ukraine: Modelling the migration factor impact," *Economics and Business Review*, vol. 8, no. 3, pp. 27–58, 2022.
- [33] O. Levytska *et al.*, "Modelling the impact of emigration upon social and economic development of the Carpathian region of Ukraine," *Bulletin of Geography. Socio-economic Series*, no. 57, pp. 141–154, 2022.
- [34] S. Manole, L. Pănoiu, and A. Păunescu, "Impact of migration upon a receiving country's economic development," Amfiteatru Economic, vol. 19, no. 46, p. 670, 2017.
- [35] A. A. Tarasyev and J. B. Jabbar, "Dynamic modeling of labor migration impact on the economic system development," *IFAC-PapersOnLine*, vol. 51, no. 32, pp. 407–412, 2018.
- [36] R. Lupak, B. Mizyuk, V. Zaychenko, M. Kunytska-Iliash, and T. Vasyltsiv, "Migration processes and socio-economic development: interactions and regulatory policy," Agricultural and Resource Economics: International Scientific E-Journal, vol. 8, no. 1, pp. 70–88, 2022.