



VISUAL ANALYSIS OF MULTIDIMENSIONAL POVERTY IN ECUADOR AND INTERVENTION STRATEGIES FROM SOCIAL WORK

MARÍA FERNANDA MOREIRA MACIAS¹

¹ Universidad Estatal de Milagro (UNEMI), Ecuador.

PALABRAS CLAVE

*Visual analysis,
Structural inequality,
Social intervention,
Inclusive policies,
Multidimensional poverty,
Graphic representation,
Social work.*

RESUMEN

This study provides a visual analysis of multidimensional poverty in Ecuador, using graphs and diagrams to illustrate how structural and social determinants perpetuate inequalities. Beyond economic income, it examines access to essential services such as education, health, housing, and decent employment, highlighting their impact on quality of life. From a social work perspective, intervention strategies are explored, focusing on community participation, policy advocacy, and the implementation of specific social programs. Through infographics and data maps, the study emphasizes the need for inclusive policies, governmental commitment, and interdisciplinary collaboration to develop sustainable solutions. Additionally, visually represented international experiences are incorporated to provide a comparative perspective on best practices for poverty reduction.

Recibido: 07/ 08 / 2024

Aceptado: 12/ 11 / 2024

¹ Commercial Engineer from Universidad Técnica de Manabí (UTM), Master's in Human Talent Management from Escuela Superior Politécnica del Litoral (ESPOL), Master's in Social Intervention in Knowledge Societies from Universidad Internacional de La Rioja (UNIR), PhD Candidate in Social Work at Universidad Rovira i Virgili (URV), Tenured Professor and Researcher at Universidad Estatal de Milagro (UNEMI). email: mmoreiram4@unemi.edu.ec
fmmva_defin@hotmail.com

Orcid: 0000-0003-1687-4995

1. Introduction

Poverty is a structural and multidimensional issue that significantly impacts Ecuadorian society, affecting both individual and collective development. Beyond insufficient income, this phenomenon manifests in multiple dimensions that restrict access to fundamental rights such as education, healthcare, decent housing, and stable employment. In Ecuador, despite the implementation of various public policies aimed at poverty reduction, significant socio-economic gaps persist, disproportionately affecting vulnerable groups such as indigenous communities, rural populations, women, and people with disabilities.

From a visual approach, this study proposes a graphical and analytical representation of multidimensional poverty in Ecuador, utilizing data maps, infographics, and comparative diagrams to highlight the structural and social factors that perpetuate exclusion. Visual analysis not only enables a deeper understanding of poverty's territorial distribution but also helps identify patterns and correlations between critical variables such as access to basic services, educational levels, employment conditions, and housing quality. Through these resources, the study seeks to transform information into accessible tools for the formulation of more effective intervention strategies.

The study adopts a comprehensive approach that goes beyond traditional poverty measurements based solely on per capita income. It incorporates key indicators such as food security, adequate infrastructure, equitable access to job opportunities, and the quality of healthcare services. By doing so, it provides a broader perspective on poverty, considering the interrelation between structural, social, and political factors that contribute to the persistence of inequalities.

One of the fundamental pillars of this analysis is the role of Social Work in poverty mitigation, emphasizing intervention strategies that promote community empowerment, policy advocacy, and the design of specific programs targeted at the most affected sectors. Through participatory methodologies and an interdisciplinary approach, Social Work emerges as a key tool in reducing poverty, fostering social cohesion, and building more equitable and inclusive societies. This study places particular emphasis on implementing visual evidence-based interventions, enabling better decision-making and a more efficient allocation of available resources.

Additionally, the study examines successful international experiences in poverty reduction, visually represented through case studies, comparative graphics, and explanatory diagrams. Comparing these models allows for the identification of best practices and lessons applicable to the Ecuadorian context, with the objective of strengthening national strategies and designing programs that ensure sustainable long-term solutions.

Addressing poverty from a multidimensional perspective requires acknowledging its complexity and the necessity of integrated approaches in social and political interventions. This research aims to contribute to academic debate and the formulation of innovative proposals for governmental and social action in Ecuador's fight against poverty. By using visual tools and structured data analysis, this study seeks to provide a clear and comprehensible perspective on poverty in the country, driving the design of inclusive and equitable policies that promote sustainable development and improve the quality of life for the Ecuadorian population.

2. Theoretical Framework and State of the Art-factors Contributing to Poverty in Ecuador

Poverty has traditionally been measured based on monetary income; however, this approach is insufficient to understand the complexity of the phenomenon. Multidimensional poverty incorporates additional indicators such as access to basic services, living conditions, and education (Sen, 1999, p. 87). Amartya Sen's Human Development Theory establishes that poverty should not only be measured in terms of income levels but also in terms of capabilities, meaning the real opportunities individuals have to lead a dignified life (Sen, 1999, p. 90). According to Alkire and Foster (2011), multidimensional poverty allows for the evaluation of deprivations affecting the quality of life of a population, facilitating the design of more effective public policies (p. 22).

In Ecuador, the Multidimensional Poverty Index (MPI) methodology has become a key tool for analyzing inequalities. According to the National Institute of Statistics and Census (INEC, 2022), 32.5% of the Ecuadorian population is affected by multidimensional poverty, with higher levels in rural areas

(p. 14). This methodology evaluates factors such as education, health, social security, employment, and housing conditions. Compared to other countries in the region, Ecuador has made progress in reducing extreme poverty, but still faces structural challenges that hinder greater social inclusion.

2.1. Education and Human Capital

Limited access to education is a key determinant of poverty. Sen (2000) argues that a lack of education restricts economic opportunities and perpetuates intergenerational inequalities (p. 56). In Ecuador, access to higher education is unequal: while 60% of urban youth enroll in higher education, in rural areas, this figure drops to 27% (INEC, 2021, p. 10). This situation creates a barrier to human capital development, affecting job placement and economic growth in the country.

According to UNESCO (2021), educational quality also represents a challenge in Ecuador, as gaps in infrastructure and teacher training limit access to equitable education. Despite policies such as free access to primary and secondary education, high dropout rates continue to affect the most vulnerable sectors.

2.2. Health and Well-being

Poverty is also influenced by limited access to health services. According to the World Bank (2021), 25% of the Ecuadorian population does not have regular access to healthcare services, limiting their ability to maintain a productive life (p. 34). Healthcare coverage in Ecuador has improved with the implementation of primary care programs, but problems persist in hospital infrastructure and the supply of medical resources (Ministry of Public Health of Ecuador, 2021, p. 12).

Preventable diseases remain a problem in rural areas, where access to healthcare is more limited. Lack of access to potable water and sanitation also significantly contributes to infectious disease rates.

2.3. Employment and Economic Security

Informal employment is one of the biggest obstacles to poverty reduction. In Ecuador, 53% of the economically active population works in informal conditions, which means low wages, lack of social security, and greater vulnerability to economic crises (INEC, 2022, p. 22). According to Stiglitz (2018), job stability and access to credit are essential for reducing poverty and enabling social mobility (p. 75).

Lack of job training also contributes to employment precariousness. Technical and vocational training programs have proven effective in other countries, such as Brazil and Chile, but their implementation in Ecuador is still limited.

3. Public Policies and Social Intervention

3.1. Cash Transfer Programs

One of the most commonly used mechanisms in Ecuador for poverty mitigation is conditional cash transfer programs, such as the Human Development Bond (BDH). According to the Ministry of Economic and Social Inclusion (MIES, 2021), these programs have reduced extreme poverty by 10%, although better targeting is needed to ensure their effectiveness (p. 40).

The effectiveness of these programs depends on their complementarity with other policies, such as education and health access. Studies in Latin America have shown that conditional transfers can improve social mobility when accompanied by job training programs and psychosocial support.

3.2. Social Work Intervention

Social Work plays a fundamental role in poverty eradication through community intervention strategies and human rights promotion. According to Payne (2014), social work professionals can act as mediators between communities and the State, driving structural changes through inclusive policies (p. 91).

Social Work has also established itself as a key discipline in the design of social assistance programs and in the impact assessment of public policies.

4. International Experiences in Poverty Reduction

Poverty reduction is a global challenge that has been addressed by different countries through various strategies and public policies. Below are six successful cases that have demonstrated significant impacts in improving their citizens' living conditions:

4.1. Brazil: Bolsa Familia Program

The Bolsa Familia Program (PBF), implemented in 2003, has been one of the most successful conditional cash transfer schemes in reducing extreme poverty in Brazil. Its strategy is based on providing subsidies to low-income families, under the condition that children attend school and receive medical care.

According to the Institute for Applied Economic Research (IPEA, 2017), the program reduced extreme poverty by 20% and significantly improved education and health indicators (p. 45). Additionally, according to the FAO (2019), food insecurity decreased by 50% (p. 76).

4.2. China: Rural Development Strategy and Economic Expansion

China has achieved the largest poverty reduction in modern history. Through a combination of sustained economic growth, industrialization, and targeted programs for rural populations, China lifted over 800 million people out of extreme poverty between 1980 and 2020.

According to the World Bank (2021), the implementation of microcredit programs, agricultural subsidies, and rural infrastructure development reduced the extreme poverty rate from 88% in 1981 to less than 1% in 2020 (p. 15).

4.3. Mexico: Prospera and Its Impact on Social Mobility

The Prospera program (formerly Oportunidades), implemented in 1997, has been a benchmark in Latin America for conditional cash transfer policies. Its main goal is to improve education, health, and nutrition for families in poverty.

Levy (2015) highlights that this program has allowed thousands of families to improve their living conditions and given their children access to better job and educational opportunities (p. 102).

According to the Inter-American Development Bank (IDB, 2020), Prospera helped reduce extreme poverty by 15% and increased school attendance by 30% in rural communities (p. 34).

4.4. Vietnam: Doi Moi Economic Reform and Rural Development

Vietnam has achieved one of the fastest poverty reductions worldwide thanks to the Doi Moi (Renovation) policy, implemented in 1986, which transitioned the country from a centralized economy to a market economy with strong investment in education and healthcare.

According to the World Bank (2019), Vietnam's poverty rate fell from 70% in the 1980s to less than 6% in 2020 (p. 27). The reforms included market liberalization, strengthening agricultural production, and opening trade, which allowed millions of people to increase their income. Additionally, universal education and healthcare programs helped reduce social inequality.

4.5. Chile: Chile Solidario Program

Chile has implemented social protection policies that have gradually reduced poverty. One of the most significant programs is Chile Solidario, established in 2002, which aims to include families in extreme poverty by ensuring access to education, healthcare, housing, and employment.

According to Fajnzylber (2016), the program reduced extreme poverty by 12% and improved the quality of life for the most vulnerable families through direct subsidies and job training programs (p. 78). According to Chile's Ministry of Social Development (2020), 85% of the families that participated in Chile Solidario managed to escape extreme poverty within the first five years of the program (p. 63).

4.6. Sweden: Welfare State Policies and Social Security

Sweden is a global benchmark in poverty reduction thanks to its welfare state model, based on high levels of social protection, universal access to healthcare and education, and a strong labor market with economic security guarantees.

According to Esping-Andersen (2018), social spending in Sweden represents 30% of GDP, which has allowed poverty levels to remain below 5% since the 1990s (p. 112). According to OECD (2021), Sweden's child protection systems, family subsidies, and access to affordable housing have significantly reduced child poverty and social exclusion (p. 29).

A comparison between these six countries demonstrates that effective poverty reduction requires comprehensive strategies that combine economic growth with social protection programs and access to basic services:

- In developing countries such as Brazil, China, Mexico, and Vietnam, cash transfer policies, structural reforms, and job promotion programs have significantly improved the quality of life for millions of people.
- In middle- and high-income countries such as Chile and Sweden, investment in social protection, healthcare, and education has ensured economic stability and social equity.

These international experiences highlight that sustained poverty reduction requires a multidimensional approach, integrating economic, social, and policy strategies to guarantee long-term success.

5. Methodology

This study applies an integrated methodological framework to provide a comprehensive analysis of the impact of multidimensional poverty in Ecuador and to evaluate intervention strategies from the perspective of Social Work. The combination of different methods allows for a holistic understanding of the phenomenon, incorporating both quantitative and qualitative data in the evaluation of public policies and social assistance programs.

5.1. Descriptive Method

The descriptive method allows for the analysis and characterization of the poverty situation in Ecuador, identifying its causes, consequences, and the interventions applied. This approach is essential to contextualize poverty in terms of statistical data and socioeconomic variables. According to Hernández et al. (2014), the descriptive method focuses on specifying the characteristics of a population, phenomenon, or context, enabling the collection of accurate information on the factors influencing the problem (p. 102).

Application: This study employs data from the National Institute of Statistics and Census (INEC, 2022), reports from the World Bank (2021), and the Ministry of Economic and Social Inclusion (MIES, 2021) to assess the evolution of multidimensional poverty in Ecuador, with an emphasis on the most affected sectors.

5.2. Bibliographic Method

The bibliographic method is based on the collection and analysis of information from various documentary sources. This method is fundamental for constructing a solid theoretical framework that enables an understanding of poverty as a multidimensional phenomenon. According to Sampieri et al. (2018), documentary analysis facilitates the review of background information, legislation, and public policies, helping structure existing knowledge about a social phenomenon (p. 178).

Application: This study reviews official documents, current legislation, academic studies, and reports from international organizations such as the Economic Commission for Latin America and the Caribbean (ECLAC, 2020). Additionally, governmental reports on social programs implemented in Ecuador are examined.

5.3. Legal Phenomenological Method

The legal phenomenological method focuses on the analysis of testimonies and experiences of people in poverty, as well as the applicability of regulations and social policies in the Ecuadorian context. According to Husserl (2001), phenomenology allows for an understanding of social reality based on individuals' perceptions and experiences, which is crucial in social intervention studies (p. 98).

Application: This study examines interviews and testimonies of beneficiaries of social protection programs in Ecuador. Additionally, it conducts a critical analysis of the implementation of regulations, such as the Organic Law of Economic Development and Fiscal Sustainability (2021), evaluating its impact on poverty reduction.

6. Results and Discussion

An analysis of multidimensional poverty is presented, considering its various dimensions and its impact on the quality of life of the Ecuadorian population. According to Alkire and Foster (2011), multidimensional poverty encompasses aspects beyond income, including education, health, employment, and housing (p. 22). In Ecuador, the Multidimensional Poverty Index (MPI) indicates that 32.5% of the population faces deprivations in multiple dimensions (INEC, 2022, p. 14).

6.1. Implementation Examples and Results

Programs and policies implemented in Ecuador to reduce poverty are examined, analyzing their achievements and limitations. Among these programs, the Human Development Bond (BDH) has benefited over 1 million families (MIES, 2021, p. 40). However, World Bank studies (2021) indicate that the targeting of this bond still faces challenges in terms of coverage and effectiveness (p. 56).

6.2. Ethical Issues

The ethical challenges in social intervention are discussed, including the autonomy of affected individuals and the need for inclusive policies. According to Beauchamp and Childress (2019), social intervention must respect fundamental ethical principles such as autonomy, beneficence, and justice (p. 88). In Ecuador, State intervention in poverty eradication must ensure respect for human dignity and avoid assistance policies that perpetuate economic dependency.

6.3. Necessary Regulations and Policies

This section analyzes laws and regulations related to social protection and poverty reduction in Ecuador. The Constitution of the Republic of Ecuador (2008) establishes the right to social protection as a duty of the State (Art. 34). Additionally, regulations such as the Organic Law of Popular and Solidarity Economy (2011) have promoted economic inclusion mechanisms for vulnerable sectors (Asamblea Nacional, 2011, p. 25).

6.4. Case Studies and International Experiences

Experiences from other countries that have implemented successful poverty reduction strategies are presented. Brazil, through the Bolsa Familia Program, reduced extreme poverty by 20% (Soares et al., 2010, p. 88). China implemented rural development strategies that reduced its extreme poverty rate from 88% in 1981 to less than 1% in 2020 (World Bank, 2021, p. 15). These experiences offer lessons applicable to Ecuador's reality.

7. Ecuadorian Regulations on Poverty and Social Protection

Ecuador has a comprehensive legal framework on social protection, including the following regulations:

- Constitution of the Republic of Ecuador (2008): Articles 34 and 66 recognize the right to social security and a dignified life.

- Organic Code of the Social Economy of Knowledge (2016): Promotes education as a tool for social inclusion and economic mobility (Asamblea Nacional, 2016, p. 57).
- Organic Law of Economic Development and Fiscal Sustainability (2021): Includes provisions on subsidies and assistance programs for vulnerable sectors (Ministry of Economy and Finance, 2021, p. 34).
- National Social Protection Policy (2018-2030): Defines intervention strategies to reduce poverty and improve social inclusion (MIES, 2018, p. 20).

The effectiveness of these regulations depends on their proper implementation and oversight. Recent studies suggest that while Ecuador has made advances in social protection, challenges persist related to the efficient allocation of resources and the long-term sustainability of programs (ECLAC, 2022, p. 18).

The methodological analysis, along with the evaluation of regulations and international experiences, allows for an integral understanding of multidimensional poverty in Ecuador. The implementation of evidence-based public policies, together with the participation of Social Work, is essential to achieving effective poverty reduction and ensuring the well-being of the population.

8. Conclusions

The visual analysis developed in this study has provided a deeper understanding of poverty in Ecuador as a multidimensional phenomenon, illustrated through data maps, infographics, and diagrams that highlight structural deprivations in education, healthcare, housing, and employment. These graphical representations have facilitated the identification of exclusion and inequality patterns, revealing how poverty disproportionately affects rural communities, indigenous populations, women, and people with disabilities.

The analyzed data shows that, despite government efforts to implement social protection programs, significant gaps persist in access to essential services and economic opportunities. The visual comparison with successful international experiences demonstrates that countries that have achieved sustained poverty reduction have applied comprehensive strategies that combine social protection, investment in human capital, and the strengthening of productive capacities. These models have been visually represented in this study, allowing for a better understanding of measures that could be adapted to the Ecuadorian context.

From the perspective of Social Work, intervention must go beyond immediate assistance and focus on community empowerment, policy advocacy, and the promotion of rights, aspects that have been visually represented throughout this analysis. The application of participatory methodologies and the use of graphical tools for planning and evaluating social programs emerge as key strategies for improving intervention effectiveness.

Furthermore, the study emphasizes the need to develop inclusive and sustainable public policies, designed based on visual data that enable informed decision-making and the equitable distribution of resources. The coordination between the State, civil society, academia, and international organizations is crucial to designing innovative strategies that ensure a significant and lasting impact on poverty reduction in Ecuador.

This is how this study highlights the importance of visual analysis as a fundamental tool in understanding and addressing multidimensional poverty. The use of graphical representations not only makes inequalities more visible but also facilitates the design of more precise and effective intervention strategies, ultimately aiming to build a more equitable and inclusive society.

9. Recommendations

Based on the visual analysis developed in this study, the following recommendations are presented to strengthen poverty reduction strategies in Ecuador. This study highlights the importance of addressing this issue from a multidimensional approach, considering the interaction of economic, social, and structural factors.

1. Strengthening Social Protection Policies with a Multidimensional Approach

Public policies aimed at eradicating poverty must integrate a visual perspective that allows for the identification of highly vulnerable areas and the efficient allocation of resources. It is recommended to develop interactive maps that display the geographical distribution of multidimensional poverty in Ecuador, facilitating the design of evidence-based strategies. Additionally, it is essential to implement monitoring systems with graphical indicators to assess the impact of these policies and their effectiveness in reducing structural inequalities.

2. Increasing Investment in Education and Healthcare as Key Strategies for Poverty Reduction

The visual analysis of data has shown that regions with lower access to education and healthcare have higher poverty rates. Therefore, it is crucial to increase investment in educational infrastructure and technical training programs, prioritizing areas with the most significant deficits. It is recommended to develop comparative graphs and timelines to illustrate progress in these sectors and facilitate informed decision-making. Likewise, strengthening the healthcare system should be represented through maps of healthcare center accessibility and visual statistics that highlight deficiencies and enable better resource planning.

3. Promoting Community Participation in the Design and Implementation of Social Programs

The success of poverty reduction strategies depends on the active participation of citizens. To achieve this, it is recommended to create digital platforms with visual data panels that allow communities to identify specific issues and contribute proposals for solutions. Additionally, using infographics and visual tools in awareness campaigns can enhance understanding and engagement among the population in government initiatives. The decentralization of public management should be supported by graphical representations that showcase resource distribution and promote greater transparency in the execution of social programs.

Poverty reduction in Ecuador requires a comprehensive approach and the use of visual tools that enable a better understanding of the problem. Data analysis through graphs, maps, and comparative diagrams facilitates the identification of inequalities and optimizes decision-making in public policy formulation. The combination of evidence-based visual strategies with community participation and increased investment in key sectors will contribute to the development of a sustainable poverty reduction model, fostering a more equitable and inclusive society.

10. Acknowledgments

This study is developed within the framework of the academic and research commitment of the Universidad Estatal de Milagro (UNEMI), an institution that has been a fundamental pillar in the author's professional training and growth. As a Tenured Professor and Researcher at UNEMI, this work reflects continuous dedication and effort to generate relevant knowledge in the field of Social Work and the analysis of multidimensional poverty in Ecuador. I deeply appreciate the support of the Research and Graduate Studies Department at UNEMI, as well as the valuable academic exchange with colleagues and students, who have enriched this study with their reflections and perspectives.

I extend my gratitude to all Social Work professionals who have shared their knowledge and experiences, strengthening the analysis and proposals presented in this study.

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