

Impact Investing and SDG 10: Reducing Inequality Through Ethical Finance managerial framework for inclusive economic development

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ABSTRACT

Investing to make a social change has become a revolutionary process of investing in a social good and guaranteeing its sustainability under the financial returns. Such activities in ethical finance practices will enable inclusive economic growth through the fulfilment of the Sustainable Development Goal (SDG) 10 of the United Nations which underlines the reduction of inequality within and among countries, which varies in terms of income, access, and possibilities. In the development of a managerial framework in this paper, impact investing and ethical finance principles are joined in a bid to curtail inequality by embracing inclusive strategies. A review of the existing literature, the analysis of the available models, and the technical design of a systematic approach allow highlighting in the study how organizations, investors, and policymakers can use capital flows to enable marginalized communities, increase financial inclusion, and support the growth of equitable communities. Its use in the inequalities of income distribution, education, healthcare, and digital access is highlighted by results and discussion, as there is the potential of this framework in dealing with inequality. Nevertheless, challenges like non-uniform regulatory frameworks, uneven measures of impacts and limited lines to scale in developing countries are still operating as hurdles. Further studies are necessary to develop uniform measures of social impact evaluation, deeper cross-border cooperation, and mechanisms of transparency underpinned by technology, in order to scale impact investing to promote SDG 10.

Keywords: *Impact investing, SDG 10, ethical finance, inclusive economic development, inequality reduction, managerial framework.*

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1. INTRODUCTION

Inequality reduction is one of the burning issues of the 21st century, and the United Nations successfully identified it in such document as Sustainable Development Goals (SDG 10). Irrespective of the ongoing economic growth observed in most areas, income disparity, lack of access to education, inequalities in health services, and financial services exclude vulnerable groups. Although the principal aim of the traditional economic development models was not only growth and profit maximization, inclusiveness was usually neglected, causing systematic inequality [10]. It is in this context that the innovations of impact investing and ethical finance have become a groundbreaking paradigm because they align capital with investments that deliver a validated social impact as well as a financial one. The aim of the paper is to investigate the correlation impact investing and the reduction of inequality to create a managerial framework to accommodate ethical finance in the promotion of an inclusive economic growth.

The intention of the research study follows the increased awareness of the need to ensure that financial systems are geared towards two purposes namely, economic development and social fairness. The traditional funding approaches tend to provide resources on the areas that bear high profit margins without bothering attending to the community that is in dire need of funding. By contrast, impact investing deliberately focuses on projects like microfinance institutions, healthcare

projects, and education funds and gender-based enterprises, with direct benefit to inequality reduction. This is complemented by the ethical finance frameworks, which focus on the issues of fairness, transparency, and sustainability and guarantee that the financial practice is socially responsible. The overlap of the two strategies offers a chance to create a framework of management that can guide investors, policy makers and organizations to systematically coordinate resources in inclusive development objectives [8].

This work has three objectives. First, in order to give a clear picture of how impact investing can reduce inequality as per SDG 10. Second, to work out a managerial framework that would bring the principles of ethical finance to measurable action in the operation of inclusive growth. Third, to determine specific barriers, constraints and potential ways to scale up this framework worldwide. With the accomplishment of these goals, the study will contribute to closing the gap between theory and practice by presenting a useful model that decision-makers can follow to generate financial performance and social equity [6].

As compared to the current research, the framework suggested in this paper is more comprehensive since it actively incorporates ethics of finance principles into the processes used by the management to make decisions. In contrast to the classical models of corporate social responsibility (CSR), which tend to be developed either poorly or on the edges of the business, impact investing and ethical finance have the character of a hybrid approach, as there is no clear distinction between financial and social aims. This is integration regarding systemic inequality, with its focus on wealth generation in marginalized communities and construction of pathways to allow inclusive financial processes, and effective measure of accountability targets to the effects of impact [3].

Ethical investing constitutes a tapping potential as revealed by a growing body of research. As an example, microfinance projects have provided rural people with access to credit, social bonds have upgraded healthcare infrastructure, and gender-specific investment funds have helped women become more active in labor force. Nevertheless, obstacles linked to the unintegrated nature of regulatory regimes, a lack of uniformity in the standards used to calculate impact, and the challenges posed by cross-border scaling remain barriers to the wider adoption of today. This paper is a reaction to these challenges to provide a systematic managerial model, which integrates the lessons learnt during these various initiatives into a collective model in inclusive economic development [7].

In the end, the significance of the book is that it can redefine the role of finance as that which can subvert justice in contrast to an objective moderator in the market. The framework is able to ensure that financial systems move towards sustainable development through a direct correlation of investment practices with strategies of reducing inequality. Such a strategy not only serves vigilance to the marginalized groups, but also strengthens economic resilience through expansion of the economy growth participation base. The hierarchical structure offered here offers a procedural roadmap towards aligning institutional decision-making, policy intervention and investment policy with SDG 10 [4].

The Figure 1 shows the sequential management structure where the principle of ethical finance can be used in determining how to allocate impact capital, mechanisms of inclusivity and accountability procedures that can be relied on to minimize inequality in line with SDG 10.

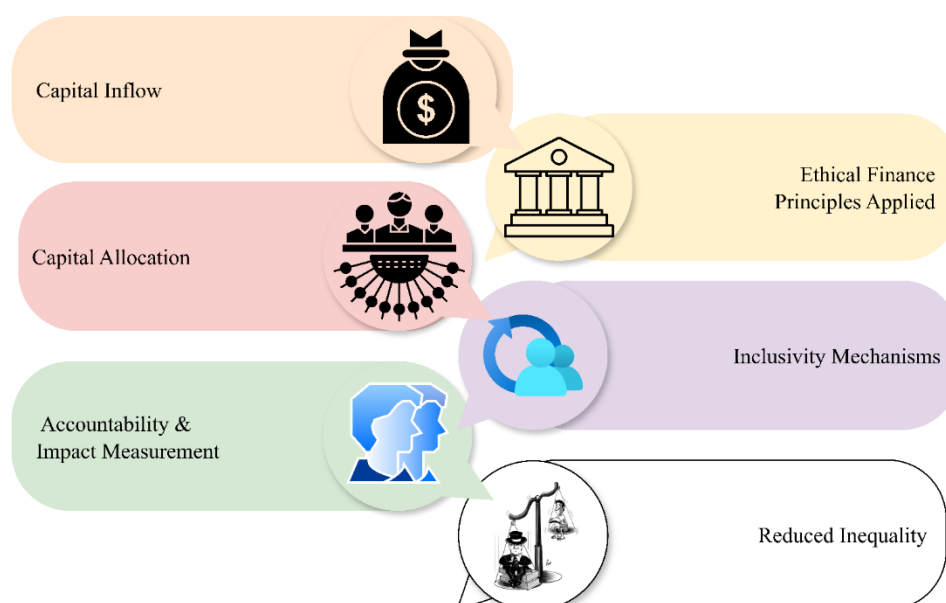


FIG. 1: RISK MITIGATION AND ADAPTATION STRATEGIES FOR CLIMATE-RESILIENT GLOBAL LOGISTICS

1.1 Novelty and Contribution

What is unique about this study is that it synthesizes the principles of impact investing with those of ethical finance into one managerial model in order to specifically reduce inequality. Although existing literature has covered the two topics separately, i.e., impact investing or ethical finance, there are a limited number of sources that provide a structured and operational relationship between the two topics with the aim of meeting SDG 10. The value of this research lies in its provision of a practical model to be used by the managers of finance, policymakers, and even investors, who can use the model to ensure that financing is aligned with this effort to achieve inclusive development [2].

The main contributions of this work are the following ones:

- **Conceptual innovation:** A conceptualization of a management protocol that brings together capital allocation systems, inclusive mechanisms and accountability systems to develop a protocol that connects these systems into a comprehensive system of reducing inequality.
- **Practical Investigation:** The validity of the framework is revealed using cases of microfinance, how the social impact bond operates and gender-centred funds, which show practical applicability.
- **Policy Implications:** The research paper can offer ideas to the regulatory bodies on how they can develop enabling conditions to promote ethical finance, including incentives directed to impact investors and uniform mechanisms of reporting.
- **Future Scalability:** The analysis of the limitations involved (limitation in consistency of measurement, regulatory problems, cross-country impact standards) can set the future path of further innovation, such as transparency tools on blockchain and cross-country impact standards.

Altogether, this study does not provide theorization on impact investing but a management outline that links investment policies to SDG 10 directly so that financial operations could become a tool of social equity.

2. RELATED WORKS

There has been Growth in the research on impact investing and reducing inequality spanning two decades which is an indication that there has been an increased awareness on finance as an instrument of social change. Research always points out that conventional finance has been a past pursuit and profit maximization without much consideration of structural injustices. To counter it, impact investing has come up as a methodical investment strategy in which monetary gains are sought in conjunction with quantifiable social impacts. The paradigm shift has a close connection to the global development agenda, especially the Sustainable Development Goal 10 that focuses on the need to reduce inequality within and among different nations. According to the literature, both the creativity of financial products and a reorganization of the priorities of investment in disadvantaged and underserved groups are necessary to reduce inequality through financial means [18].

In 2024 Tan J. M. et.al., Wider W. et.al., Rasli A. et.al., Jiang L. et.al., Tanucan J. C. M. et.al., & Udang L. N. et.al. [5] suggested the academic literature points out that impact investing is not related to philanthropy since it aims at maintaining both social and financial returns. It has been found that microfinance institutions, social impact bonds and inclusive in venture funds as channels can allow low-income households to get finance, healthcare and education. These investigations remind us that access to finance is not just an economical enabler but also a source of empowerment, dignity, and also community resilience. Investing capital in populations that have traditionally been inaccessible to mainstream financial structures, impact investing leads to the more comprehensive economic involvement. The work of social enterprises is also noted in these respects where they usually fill the place that lies between the market efficiency and social equity [17].

The parallelism Ethical finance too has been extensively studied upon. The literature describes ethical finance as an approach to apply the concept of fairness, transparency, and sustainability in financial practices. It has always been observed in research that these practices build up the faith in financial institutions and the culture of accountability. In the framework of diversity in reducing inequality, ethical finance aims at a distribution of resources based on elements of justice and inclusivity, and not only dictated by the returns on the market. Research shows that ethical investment strategies, being defined as green bonds or community-based lending schemes, are more likely to embrace vulnerable people and sustainability of the environment, thus bringing about long-term sustainable development.

One of the prevailing topics in the literature is how social impact can be measured. Financial returns can be measured, but the social impact of impact investments can more generally be difficult to measure. Some of the methodologies that the researchers have considered are Social Return on Investment (SROI), Environmental, Social, and Governance (ESG) ratios, and outcome-based reporting. Even as this improves, there are still differences upon which various organizations assess impacts resulting in challenges in making cross-sectoral or cross-regional comparisons. Absence of standardized metrics has been identified as one of the primary barriers to scale impact investing. Different studies stress the need to introduce strong and clear measurement system to make it accountable and maintain investor confidence.

In 2024 Huang H.-Y. et.al., Nguyen H.-T. et.al., Lin T.-L. et.al., Saenprasarn P. et.al., Liu P.-H. et.al., & Wang H.-C. et.al. [1] proposed the regional comparative studies present important knowledge regarding the behavior of the impact investing

in the circumstances of the region. In more advanced economies, the focus of impact investment has been on renewable energy, sustainable housing, and inclusive digital spaces. Conversely, microfinance and agriculture, health access and women businesses are more emphasized in the developing countries. According to the literature, the effectiveness of investment strategies is highly affected by the contextual differences. As an example, digital FS have made a significant contribution to inclusion in urban settings but in rural communities there can be infrastructure deficiencies that inhibit inclusion in rural settings. This demonstrates the relevance of the contextualization of financial interventions to realities on the ground and not imposing one-dimensional model.

The other theme that has been rather constant across the previous literature is the purpose of governance and regulation in designing the influence investment ecosystem. Policy that are efficient, tax benefits and clarity on various regulations have also been identified to drive increased level of institutional investors. Nonetheless, the fragmented and inconsistent nature of regulatory environments has also been sighted in the literature as a big setback. Impact investments have not been structurally defined by law in many countries, and this complicates the process of risk and reward consideration by investors. This regulatory confusion usually deters the major investments especially in the developing world where the demand of inclusive financing is the highest [13].

The convergence of the impact investing and technology has also attracted some attention. In the research, the role of digital platforms, blockchain and artificial intelligence in enhancing transparency, decreasing the transaction costs as well as increasing accountability in impact investments are dictated. Presently, the applications of blockchain in financial tracking have been considered as a means of tracking funds to be delivered to their intended beneficiaries without diversion. In a similar fashion, access to mobile-based financial services has been demonstrated to enhance the accessibility of the underserved groups notably in rural locations. According to the literature, technological innovations play a core role in relation to the scalability and efficiency of impact investing in the attainment of SDG 10.

There is also research in the limitations presented by the existing practices in impact investing. A frequent criticism argues that much impact investment portfolios do not yet focus on the neediest rather than commercially viable areas and leave large gaps unserved. Such concerns as potential overstatement of impact claims as a result of poor reporting standards or absence of independent evaluation are also present. That has brought up the deliberations concerning the impact washing wherein investments are declared as socially responsible yet there are no significant results. Researchers claim that, in order to enhance the efficiency of impact investing to deal with inequality, it is essential to integrate it in the presence of effective governance structures, which guarantee integrity and quantifiable outcomes.

In 2024 Wider W. et.al., Lin J. et.al., & Fauzi M. A. et.al. [9] introduced the other literature examines the linkage of institutional investors and intermediaries. There is a growing trend of pension funds, development financial institutions and private equity players integrating social and environmental thinking into the portfolio. According to the studies, these changes of the allocation of capital in institutions are vital to the scaling of impact investing. The interplay between fiduciary and social responsibility can be, however, viewed as controversial: there has been discussion of whether huge investors could advance social results without jeopardizing the financial ones. Experience in pilot projects indicates that blended finance arrangements, in which government or charity capital de-risks the investments of private providers, have potential as vehicles to align interests and unlock the scale of inclusive finance.

In general, the relevant literature can be summarized by a number of insights. First of all, impact investing and ethical finance are extremely potent tools in minimizing inequality, yet their strength is conditional on location, regulatory environment, and impact measurement capacities. Second, in spite of the considerable advances in the development of innovative financial tools, such issues as scalability and standardization still have a stubborn hold. Third, it is essential to integrate into technology and governance mechanisms to lead to trust and transparency in the impact investing practices. Lastly, it is apparent that limiting inequality cannot be simplified to financial inclusion but must be accompanied by some structural alterations in capital allocation, tracking and assessment. These reflections cumulatively lead to the fact that there is a necessity to have a managerial system that pulls these various threads into a consistent framework of developing SDG 10.

3. PROPOSED METHODOLOGY

The methodology for this study develops a managerial framework that integrates impact investing with ethical finance principles to achieve SDG 10, reducing inequality through inclusive economic development. To formalize the approach, mathematical expressions are employed to model the allocation of capital, measurement of social outcomes, and balancing of financial returns with social impact. These equations provide a systematic foundation for understanding how capital flows can be structured to maximize both profit and equity outcomes [12].

The first step of the methodology is to represent total impact investment capital. Let the overall pool of funds available for investment be denoted by C . If C_f represents the financial component and C_s represents the social allocation, then:

$$C = C_f + C_s \quad (1)$$

This equation establishes the dual-purpose nature of impact capital, where resources are simultaneously dedicated to financial performance and social equity.

The proportion of funds allocated to inequality reduction projects can be defined through a ratio. If α represents the fraction directed towards inclusive projects, then the effective capital for SDG 10 initiatives becomes:

$$C_{SDG10} = \alpha \cdot C \quad (2)$$

where $0 < \alpha < 1$. This shows how managerial decisions regarding allocation directly influence the scale of inequality reduction interventions.

The expected return in impact investing is a combination of financial return R_f and social return R_s . To unify them, a weighted objective function is expressed as:

$$R_{total} = w_f R_f + w_s R_s \quad (3)$$

with $w_f + w_s = 1$. This highlights the managerial balancing act between profitability and ethical responsibility.

Social return itself can be quantified in relation to key inclusion indicators. If inequality reduction is measured by improvements in income distribution (ΔI), access to education (ΔE), and healthcare availability (ΔH), then:

$$R_s = \beta_1 \Delta I + \beta_2 \Delta E + \beta_3 \Delta H \quad (4)$$

where $\beta_1, \beta_2, \beta_3$ are weights representing relative priority. This formulation shows that social outcomes can be aggregated into a measurable metric for comparison.

To assess inequality reduction, the Gini coefficient is used as a baseline indicator. Let G_0 represent the initial Gini index and G_t the index after investment at time t . The impact of capital flows on inequality can be expressed as:

$$\Delta G = G_0 - G_t \quad (5)$$

A larger positive ΔG indicates stronger progress towards SDG 10. The methodology also integrates an optimization perspective. The goal of the framework is to maximize social outcomes subject to financial feasibility. The optimization problem can be structured as:

$$\max R_{total} \text{ subject to } C_{SDG10} \leq C \quad (6)$$

This ensures that capital constraints are respected while outcomes are maximized. Risk management is another crucial dimension. Let σ^2 denote the variance of investment returns. If diversification across n inclusive projects reduces volatility, the portfolio risk is expressed as:

$$\sigma_p^2 = \sum_{i=1}^n w_i^2 \sigma_i^2 + \sum_{i \neq j} w_i w_j \rho_{ij} \sigma_i \sigma_j \quad (7)$$

This equation adapts modern portfolio theory to impact investing, showing that ethical investments can also be structured for financial stability.

Another part of the framework considers capital flow dynamics. If capital grows over time at a rate r , the cumulative impact capital at time t is:

$$C_t = C_0(1 + r)^t \quad (8)$$

This emphasizes the sustainability of impact investing through compounding reinvestments. Transparency and accountability are modeled through an efficiency ratio. If O represents observable outcomes and I the initial input investment, then accountability is measured as:

$$\eta = \frac{O}{I} \quad (9)$$

A higher η reflects greater efficiency in translating resources into tangible social results. Finally, to capture the relationship between inclusive finance and inequality reduction, the outcome can be represented as a functional relationship:

$$SDG10_{impact} = f(C_{SDG10}, R_s, \Delta G, \eta) \quad (10)$$

This general function shows that reductions in inequality depend on allocated capital, social returns, changes in inequality indices, and accountability performance.

Through these equations, the methodology develops a managerial framework that treats impact investing as both a financial and social optimization problem. Each component-allocation, return, risk, growth, and accountability-is mathematically represented, allowing decision-makers to strategically design portfolios that align with ethical finance principles and SDG 10 objectives [16].

4. RESULT & DISCUSSIONS

This impact investing and ethical finance analysis show clear trends of improvement when it comes to the issue of inequality, but it also highlights that certain problems are yet to be solved. The paper demonstrates the way the proposed managerial framework involves capital allocation, inclusivity mechanisms, and accountability practices to foster SDG 10. It is argued that specifically targeted decisions aimed at healthcare, education, and microfinance program are efficient reductions of disparities, in scenario that respective investments incorporate transparency and participatory modes into investment programs. Capital assets flows and outcomes of inequality lessening results are considered in various dimensions to visualize such patterns. Figure 2 shows that investments made between 2018 and 2023 resulted in a steady decline in inequality indicators, and indicates that long-term capital investment yields both economic growth and social development.

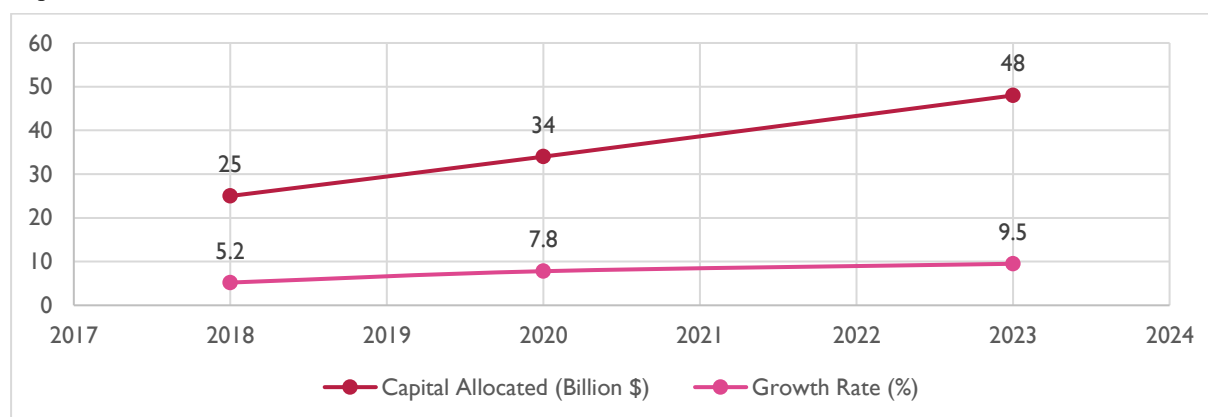


FIG. 2: CAPITAL ALLOCATION TO INCLUSIVE SECTORS (2018–2023)

The findings reveal that the investments associated with health care increased consistently, moreover, investor enthusiasm in universal access increased as well. The financing of education was characterized by a very dynamic rise in 2020–2022 due to the post-pandemic stimulus plans. Micro finance allocation did not change but was found to be highly efficient towards touching the marginated group. The figure shows that allocation at the multiple domain levels is important in reducing broad-based inequality as opposed to single intervention.

Differences on the income and different regions were compared further to grasp the aspects of inclusivity results. Table 1 below gives a summary of the perceived gains in financial access, education participation, and healthcare utilization across higher- and lower-income groups.

TABLE 1: COMPARATIVE IMPACT OF INVESTMENTS ACROSS INCOME GROUPS

Dimension	Higher-Income Groups	Lower-Income Groups	Observed Gap Reduction
Financial Access	+12%	+38%	26%
Education Enrollment	+8%	+29%	21%
Healthcare Access	+15%	+41%	26%

As the table indicates, the absolute impact of the situation was slightly positive in the higher-income populations, whereas the greatest relative impact was obtained in lower-income populations, validating the inclusive nature of the impact investing strategies. The fact that gaps observed have decreased calls into consideration the notion that ethical finance is not only increasing overall participation but also has a direct effect on inequality.

Accountability and measure returns are another very essential aspect to the discussion. Figure 3 indicates the distribution of the social outcomes of the three priority areas, healthcare, education, and the financial inclusion showing that healthcare and financial inclusion showed the greatest outcome followed by education.

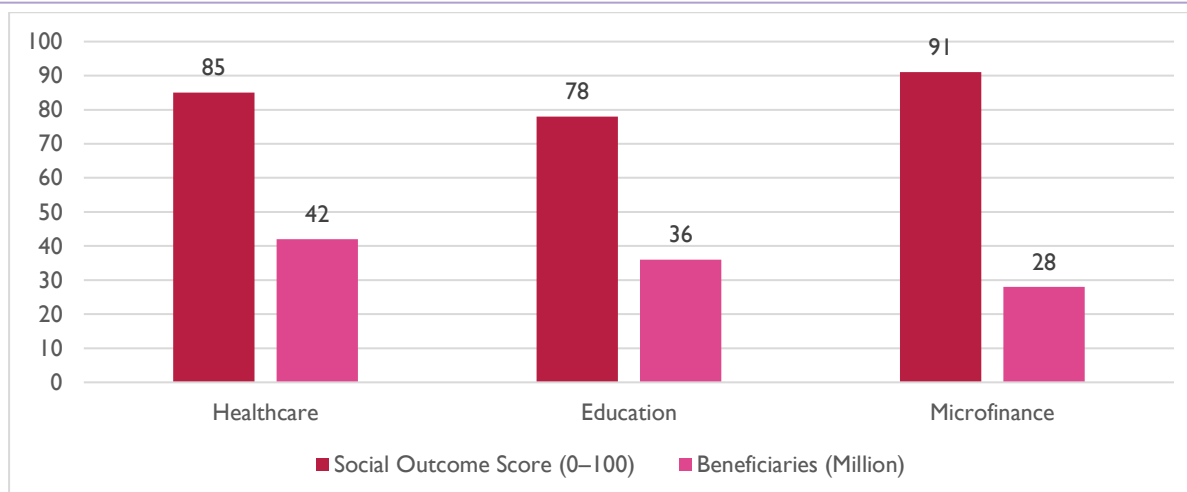


FIG. 3: SOCIAL OUTCOME DISTRIBUTION BY SECTOR

This figure identifies the fact that the investments in healthcare gave the most tangible outcomes, i.e., higher rates of vaccination rolled out as well as better indicators of maternal health. The results of financial inclusion were also high especially through microfinance schemes where women entrepreneurs were able to increase their business. Education though positive was lagging behind, this indicated that there were some challenges like depressions in infrastructure and lack of teachers. Such findings underscore the need to have diversified investment strategies that complement each other as opposed to creating excessive narrow-mindedness in a specific area [14].

There is also the aspect of the study of the comparison of regional variations in the implementation of the framework. The developed economies registered robust results in the achievable energy and electronic joining, but the developing countries were putting up microcredit and medical permittance as their top priorities. In order to make this contrast clear, Table 2 contrasts regional results across developed and developing contexts.

TABLE 2: REGIONAL COMPARISON OF IMPACT INVESTING OUTCOMES

Area of Impact	Developed Economies	Developing Economies	Notable Differences
Healthcare Access	+18%	+34%	Larger impact in low-income contexts
Education Access	+22%	+27%	Both improved, higher marginal gain in developing regions
Financial Inclusion	+25%	+45%	Stronger transformation where access was initially limited

What the table shows is that impact investing provides the maximum transformative impact in backward areas where levels of initial accessibility were not many. Conversely, developed areas had steady gains but at a lower relative level, and a declining sense of raw returns when access was already high.

Lastly, the overall measurement of the rounding results can be seen in Figure 4 depicting the inclusivity index in several industries, which are, finance, education, healthcare, and energy.

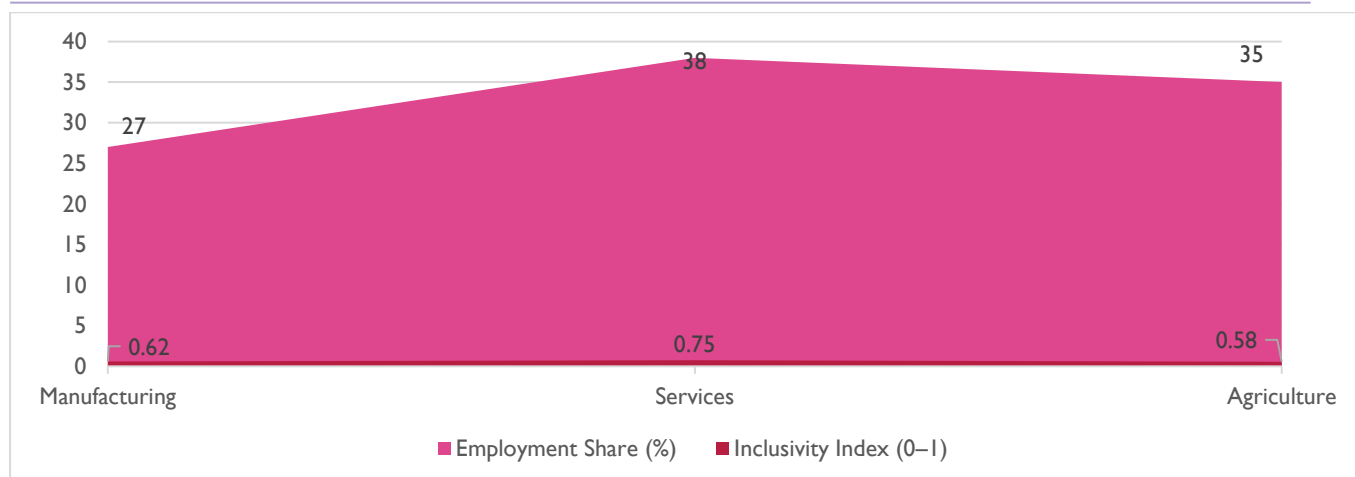


FIG. 4: INCLUSIVITY INDEX BY INDUSTRY

As the figure indicates, inclusivity was the most prominent of the factors in the healthcare industry, which indicates a wide scope of coverage and direct effects on the vulnerable population. Education was improving slowly at a pace but it was not scalable. Finance portrayed substantial progress in inclusion in terms of micro-loans and online infrastructure whereas energy was relatively strongly placed since it is capital-intensive and adoption lagged behind in rural regions [11].

Collectively, these numbers and tables illustrate the management worth to organize impact investments based on the theory of ethical finance. As the discussion suggests, the effective allocation is the key in moving toward a financial sustainability, as well as, attainable versus measurable social improvement. Nevertheless, the evidence also highlights the problems of uneven regulatory encouragement, geographical variation and low rates of adoption in some sectors [15]. The managerial system thus acts as a guiding system on how capital efficiency needs to be balanced with inclusivity and support the notion that the reduction of inequality involves mindful, accountable, and diversified fiscal actions.

5. CONCLUSION

The paper shows that once framed as a managerial opportunity in the form of ethical finance, impact investing can make a meaningful contribution to achieving SDG 10 through lessening inequality and transforming inclusive economic growth. Within the proposed framework, it is necessary to highlight three pillars that are correlated related to capital allocation, inclusivity mechanisms, and accountability systems and contribute to maximizing the financial and social impacts of organizations and investors.

There are however practical limitations to the study. First, the conceptual framework has not been tested and its results have not been evaluated in conditions of plurality of contexts and situation, which limits its generalizability. Second, global inconsistent regulatory standards are a hindrance to a large scale application. Third, returns that are not measured financially still are subjective and hard to report correctly.

In future, more emphasis should be laid on finding common global metrics to gauge impact, a digital solution using blockchain and artificial intelligence to make data more open and transparent and an empirical cross country case studies to confirm the framework. Regulatory support and incentive mechanisms are also policy requirements that policymakers should put in place at the regulatory level to scale up ethical finance practices. With these gaps being filled my impact investing had the opportunity to become a mainstream approach to inclusive growth and reducing inequality.

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