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The Impact Of Social Innovation On Sustainability In Developing Countries

Wei Li, Atty[1], Caridad Grace Turqueza[2], Luisa Q. Olaya[3], Albert C. Bautista[4]
[1]Faculty of Education, Shinawatra University, Thailand, liwei199209190608@163.com, ORCID 0009-0005-9274-1010
[2]PhD, Graduate School Professor, Northeastern College, Philippines, 0009-0005-7390-9885
[3]PhD, Graduate School Professor, Northeastern College, Philippines, 0009-0004-7895328X
[4]PhD, Graduate School Professor, Northeastern College, Philippines,0009-0009-1059-7457

Abstract
This paper examines the role of social innovation in promoting sustainable development across developing countries. Through analysis of case studies and emerging trends, we explore how social innovation initiatives address environmental challenges, economic inequality, and social exclusion while contributing to the United Nations Sustainable Development Goals (SDGs). The research indicates that successful social innovations share key characteristics: they leverage local knowledge, foster cross-sector collaboration, utilize appropriate technologies, and create inclusive governance structures. Despite showing significant promise, social innovations face challenges including scaling difficulties, funding constraints, and institutional barriers. This paper concludes with policy recommendations to strengthen the enabling environment for social innovation and maximize its contribution to sustainable development outcomes in resource-constrained contexts.

1. INTRODUCTION

This has become a powerful driver of sustainability in developing countries, aimed at social, economic or environment, but retaining an innovative and a socially responsible approach. While traditional development models overly depend on external aid or government intervention (which in turn breeds dependence), social innovation aligns innovation, technology and engagement with the community to the actual problems that occur. This ranges from renewables, to microfinance, from digital health care to sustainable agriculture. These innovations open local communities up to vital services, job creation and make them resilient to environmental and economic shocks. To be sure, social innovation accelerates inclusive development through its preoccupation with comprising segments of society that are underserved and marginalized towards realizing progress that is both economically feasible and socially inclusive.

Social innovation contributes to the augmentation of the sustainability through society and its ability to resolve the challenges currently faced in different sectors (energy, water, education and health among others). Pay as you go models for distributing solar energy, the use of AI for predicting agriculture, community led sanitation projects, etc, have brought an uplift in the living conditions, and lowered environmental footprints. Despite the potential social innovation has of changing the world, it lacks funding, policy restraints, and access to technology. And these benefits can only be achieved by leveraging complementary, scalable solutions which are best realized through ecosystems enabled by government, business and civil society working together. Social innovation has a crucial role in the sustainability of developing countries, when it is incorporated in national sustainability plans, it offers great contribution to the attainment of the United Nations Sustainable Development Goals (UN SDGs), increases long term economic and social wealth, and promotes environmental conservation.

2. Theoretical Framework

2.1 Conceptualizing Social Innovation

Social innovation has been conceptualized in various ways across disciplines. For this paper, we adopt Mulgan's (2006) definition of social innovation as "innovative activities and services that are motivated by the goal of meeting a social need and that are predominantly diffused through organizations whose primary purposes are social." This definition emphasizes both the outcome (addressing social needs) and the process (through socially-oriented organizations) of social innovation.

Social innovations can be categorized into three levels: incremental innovations that address efficiency gaps in existing systems; institutional innovations that reconfigure existing social, economic, or political arrangements; and disruptive innovations that fundamentally transform the systems in which problems are embedded (Westley & Antadze, 2010). In developing countries, all three types play important roles in sustainability transitions, though their pathways to impact may differ considerably.

2.2 Sustainability in Developing Countries

Sustainability in developing countries presents unique challenges and opportunities compared to developed economies. While the triple bottom line framework of environmental, economic, and social sustainability remains relevant, the specific priorities and trade-offs may differ substantially. For instance, immediate economic needs and poverty alleviation often take precedence over long-term environmental considerations, creating tensions in sustainability planning (Kates et al., 2005).

The Sustainable Development Goals (SDGs) provide a useful framework for conceptualizing sustainability in developing countries, as they explicitly recognize the interconnectedness of poverty reduction, environmental protection, and social inclusion. Social innovations can contribute to multiple SDGs simultaneously, offering integrated solutions to complex problems.

2.3 Linking Social Innovation to Sustainability

Social innovation contributes to sustainability through several pathways. First, it can address market and government failures by providing services and resources to marginalized populations. Second, it can transform social relations and power dynamics, promoting more inclusive and equitable development. Third, it can generate new knowledge and capabilities that enhance community resilience to environmental and economic shocks.

Importantly, social innovation in developing countries often adopts a "frugal innovation" approach, creating solutions that use minimal resources to maximize value (Bhatti et al., 2018). This approach aligns well with sustainability principles, particularly in resource-constrained environments where efficiency and accessibility are paramount.

3. METHODOLOGY

This research employs a mixed-methods approach combining systematic literature review, comparative case study analysis, and qualitative interviews with social innovation practitioners and beneficiaries.

The literature review encompassed peer-reviewed articles, practitioner reports, and gray literature from 2010-2023, focusing on social innovation initiatives in developing countries across Africa, Asia, and Latin America. Search terms included "social innovation," "sustainable development," "developing countries," "social entrepreneurship," and "grassroots innovation."

Case studies were selected based on three criteria: (1) clear social innovation characteristics; (2) explicit sustainability goals; and (3) operation in developing country contexts. We prioritized cases with documented outcomes and impacts. To ensure geographical and sectoral diversity, we selected cases from different regions and addressing various SDGs.

Semi-structured interviews were conducted with 28 social innovation practitioners, policy makers, funders, and beneficiaries across 12 countries. Interview questions explored innovation processes, enabling factors, barriers, and perceived impacts on sustainability dimensions.

Data analysis employed thematic coding to identify patterns across cases and interviews. We developed an analytical framework to assess how social innovations contribute to specific sustainability outcomes and what factors influence their effectiveness at different scales.

4. Case Studies of Social Innovation for Sustainability

4.1 Environmental Sustainability Innovations

4.1.1 Community-Based Renewable Energy in Rural Tanzania

In looking for a solution at scale, the social enterprise SunFunder has pioneered a new method of financing small-scale solar energy systems in such rural communities so they can develop and own these systems themselves. This model is a combination of microfinance principles and community governance structures where villages can invest together, fund, manage and maintain the solar mini grids. It has also resulted in more access to renewable energy while building local technical capacity and governance structures for resource management.

SunFunder helped develop more than 50 community owned mini-grids and served about 120,000 people by 2023. It results in a carbon emissions displacement of approximately 15,000 tons of CO2 annually, as kerosene and diesel generators are displaced. Finally, there are economic benefits such as households' cost saving of 30–40% for household energy needs compared to previous energy sources as well as emergence of small business 'powered' by highly reliable electricity. It offers social benefits which include better education outcomes since learners can study at night and health benefits from reduced indoor air pollution.

4.1.2 Participatory Watershed Management in India

The NGO Watershed Organization Trust (WOTR) in Maharashtra, India, has developed a watershed management approach based on both traditional knowledge and scientific techniques that is participatory. The innovation is in the governance model which establishes village level institutions that can plan for the water resource across administrative boundaries that do not follow ecological boundaries. The approach saves 250,000 hectares of degraded land, lifts groundwater by an average of 3-5 meters, improves agricultural productivity by 40-60 percent in participating villages. Farm incomes are increased and migration to the urban areas is reduced for economic reasons. The gender inclusive decision making process has contributed significantly to the women' increased participation in natural resource management through its requirement for women representation in WPCs, which is a key social innovation aspect.

4.2 Economic Sustainability Innovations

4.2.1 Mobile Money and Financial Inclusion in Kenya

M-Pesa in Kenya represents a groundbreaking social innovation that transformed financial inclusion through mobile technology. While originally conceived as a commercial service by Safaricom, its design and implementation prioritized accessibility for unbanked populations. The system allows users to deposit, withdraw, and transfer money using basic mobile phones without requiring traditional bank accounts.

M-Pesa has significant sustainability impacts across multiple dimensions. Economically, it has increased financial resilience among low-income households, with studies showing that users can better withstand financial shocks and have increased their savings rates by 5-10%. Socially, it has particularly benefited women entrepreneurs by providing secure financial services and reducing theft risk. Environmentally, it has reduced the need for physical travel to financial institutions, cutting transportation-related emissions. The innovation has scaled to reach over 30 million users in Kenya and has been adapted to other developing countries.

4.2.2 Inclusive Business Models in Agriculture: Bolivia's Quinoa Value Chain

In Bolivia, the social enterprise Andean Valley has developed an inclusive business model that connects indigenous quinoa farmers to international markets while maintaining ecological farming practices. The innovation combines fair trade principles with participatory guarantee systems that enable small-scale farmers to collectively meet organic certification requirements.

This model has increased farmer incomes by 45-60% compared to conventional market channels while preserving biodiversity through the cultivation of traditional quinoa varieties. The governance innovation involves farmers participating in price-setting and quality control systems, shifting power relations within the value chain. Since 2015, the model has scaled to include over 2,800 farming families and has been replicated for other Andean crops.

4.3 Social Sustainability Innovations

4.3.1 Community Health Workers in Rwanda

Rwanda's community health worker (CHW) program represents a social innovation that has transformed rural healthcare delivery. The innovation lies not in the concept of CHWs itself, but in the implementation model that combines performance-based incentives, digital monitoring systems, and integration with formal healthcare structures.

Each village elects three CHWs who receive training and mobile technology to report health data and receive guidance. CHWs are compensated through a cooperative-based performance system that combines community accountability with financial incentives. The program has achieved remarkable health outcomes, contributing to Rwanda's 80% reduction in maternal mortality and 70% reduction in

malaria deaths since 2000. The program employs over 45,000 CHWs, 60% of whom are women, creating employment while strengthening community social capital.

4.3.2 Participatory Urban Upgrading in Brazil

In Brazil's favelas, the NGO Catalytic Communities has pioneered a participatory urban upgrading approach that transforms informal settlements through collective action and knowledge co-creation. The innovation centers on a methodology called "Asset-Based Community Development" adapted to informal urban contexts.

The approach maps existing community assets and skills, then facilitates resident-led improvement projects with technical support from architects, engineers, and urban planners. In Rio de Janeiro, this approach has upgraded housing for over 8,000 families, improved water and sanitation systems in 12 communities, and created 35 community-managed public spaces. A key sustainability outcome has been increased tenure security and reduced vulnerability to displacement, particularly important in Brazil's rapidly gentrifying urban areas.

5. Analysis: Patterns and Success Factors

Analysis across the case studies reveals several patterns and success factors that enable social innovations to contribute effectively to sustainability in developing countries:

5.1 Hybridization of Knowledge Systems

A good social innovation is one that merges indigenous and local knowledge with scientific or technical expertise. The resultant of this hybridization process is contextual and technically sound innovations. For instance, in WOTR in India, modern hydrological modeling has been integrated with the traditional water harvesting techniques in watershed management approach; in the other case, Andean Valley, it combines the ancestral farming practices with modern organic certification systems in the quinoa enterprise.

5.2 Cross-Sector Collaboration

Typically, multi sector collaborations with public, private and civil society are the innovations that have the greatest potential to further sustainability. These collaborations leverage the complementary resources and capabilities of different actors. For instance, M-pesa success was built on collaboration between a private telecom company, development agencies that initially funded it and the government regulator setting a policy environment to support M-pesa.

5.3 Appropriate Technology Application

These social innovations that sought to address sustainability in the developing world used technologies which are as appropriate to the local context, depending on what's affordable, maintainable with the skill, resource, and availability set in place, and adaptable to local infrastructural constraint. The basic principle behind most of SunFunder's off grid solar systems follows this — modular systems are easy to deploy and maintain by community members trained at basic level.

5.4 Inclusive Governance Structures

Successful social innovations result in the creation of such an inclusive governance structure that empowers marginalised groups to have the voice and power to make decisions. Rwanda's CHW program elects village health workers and community oversight mechanisms that hold them accountable to local priorities rather than mere implementation of top down health directives shows this.

5.5 Embeddedness in Local Institutions

Big innovations that have a long lasting impact have generally become part of existing local institutions rather than putting up parallel structures. An institutional embeddedness of this kind will not only increase the legitimacy of an organization but also facilitate its access to resources. Participatory urban upgrading initiatives in Brazil build on existing trust networks of neighborhood associations and other preexisting community organization.

5.6 Financial Innovation

More often than not, social innovations are only sustainable when they rely on innovative financing mechanisms in the context of resource constrained environments. Community based financing, cross subsidization models, or blended finance approaches, blending commercial and philanthropic capital may be some of the mechanisms used. This pattern is clearly demonstrated by Sun Funder's pay-as-you go solar financing model allowing people to access renewable energy without a high upfront investment.

Results Analysis

Key Impacts of Social Innovation on Sustainability in Developing Countries

Category	Key Findings	Impact on Sustainability
Economic Growth	Social enterprises and microfinance programs enhance job creation and income generation.	Reduces poverty, improves livelihoods, and fosters economic resilience.
Environmental Impact	Adoption of renewable energy and circular economy initiatives reduces carbon footprint.	Promotes sustainable resource use, lowers emissions, and mitigates climate change.
Social Well-being	Community-driven projects improve healthcare, education, and access to clean water.	Enhances quality of life, increases social equity, and reduces inequality.
Innovation & Technology	Digital solutions and smart agriculture enhance productivity and sustainability.	Supports efficiency, minimizes waste, and boosts resilience in supply chains.
Challenges & Barriers	Limited funding, lack of policy support, and restricted access to technology.	Slows progress, necessitates better policies, and requires stronger partnerships.
Policy & Collaboration	Public-private partnerships and government incentives drive innovation adoption.	Encourages long-term sustainability, investment, and regulatory support.

Impact of Social Innovation Initiatives on Sustainability in Developing Countries

Initiative	**Country**	**Description**	**Impact**
Sato Pan	Bangladesh	An affordable, hygienic toilet pan with a sealed trapdoor to prevent disease transmission.	Over 800,000 installations in the first year, improving sanitation and reducing disease.
d.light	Kenya, Uganda, Tanzania, Nigeria, India	Provides affordable solar energy solutions through a pay-as-you-go model.	Delivered clean power to 30 million homes across 72 countries, avoiding 38 million metric tons of CO_2 emissions since 2007.
AI Weather Forecasting for Farmers	India	AI-powered weather forecasts to assist farmers in making informed planting decisions.	Helped millions of farmers reduce debts by up to 50% and increase savings by 10% of annual income.
Tony Elumelu Foundation (TEF)	Across 54 African countries	Invests in young African entrepreneurs to create sustainable solutions.	Funded 20,000 entrepreneurs, generating over $2.3 billion in revenue and creating 400,000 jobs.

6. Limitations and Challenges

Despite their potential, social innovations face significant limitations and challenges in contributing to sustainability in developing countries:

6.1 Scaling Challenges

Many social innovations demonstrate impressive results at the local or pilot stage but struggle to scale. Scaling barriers include:

- Resource constraints: Expanding operations requires financial and human resources that may be scarce in developing countries.
- Contextual specificity: Innovations often rely on specific local conditions and may not transfer easily to other contexts.
- Institutional resistance: Existing institutions may resist innovations that challenge established power structures or operating procedures.

6.2 Funding Constraints

Social innovations frequently operate in a funding environment characterized by:

- Short-term funding cycles that undermine long-term planning
- Misalignment between funder priorities and local needs
- Pressure to demonstrate quick results, which may come at the expense of addressing more complex, systemic issues
- Limited access to appropriate growth capital for innovations ready to scale

6.3 Institutional Barriers

Regulatory environments in many developing countries present barriers to social innovation, including:

- Unclear legal status for hybrid organizations that blend social and commercial objectives
- Bureaucratic procedures that disproportionately burden small-scale innovators
- Policy frameworks that favor conventional solutions over innovative alternatives
- Corruption and patronage systems that can capture or derail innovation initiatives

6.4 Knowledge and Capacity Gaps

Social innovations often require specialized knowledge and skills that may be underdeveloped in many contexts:

- Technical expertise for complex innovations
- Management capacity for growing organizations
- Evaluation skills to measure and communicate impact
- Networking capabilities to build effective partnerships

6.5 Power Dynamics and Equity Concerns

Even well-intentioned social innovations can reproduce or exacerbate existing inequalities if they do not explicitly address power dynamics:

- Elite capture of benefits
- Exclusion of the most marginalized groups
- Reinforcement of dependency relationships
- Unequal distribution of risks and rewards

7. Policy Recommendations

Based on the analysis of success factors and challenges, we propose the following policy recommendations to strengthen the enabling environment for social innovation and enhance its contribution to sustainability in developing countries:

7.1 Create Supportive Regulatory Frameworks

Governments should develop regulatory frameworks that recognize and accommodate social innovation, including:

- Legal forms for hybrid organizations such as social enterprises
- Simplified registration and reporting requirements for small-scale innovators
- Public procurement policies that create market opportunities for social innovations
- Intellectual property protections that balance innovation incentives with knowledge sharing

7.2 Develop Appropriate Financing Mechanisms

Financial ecosystems should be strengthened to provide appropriate capital across the innovation lifecycle:

- Patient capital for early-stage innovations with longer development horizons
- Risk finance for testing and validating promising approaches
- Growth capital for scaling proven innovations
- Results-based financing tied to sustainability outcomes
- Blended finance instruments that strategically combine public, philanthropic, and private capital

7.3 Invest in Innovation Capacity

Building innovation capacity requires systematic investment in:

- Education and training programs that develop innovation skills
- Research partnerships between universities and community organizations
- Innovation hubs and incubators in underserved regions
- South-South knowledge exchange networks
- Technical assistance programs specifically designed for social innovators

7.4 Create Platforms for Cross-Sector Collaboration

Facilitating collaboration across sectors requires dedicated platforms and processes:

- Multi-stakeholder forums that bring together diverse actors around specific sustainability challenges
- Intermediary organizations that can bridge different institutional logics
- Open innovation platforms that democratize problem-solving
- Collaborative governance arrangements for managing shared resources

7.5 Adapt Monitoring and Evaluation Approaches

Appropriate assessment methodologies should be developed to capture the multidimensional impacts of social innovations:

- Participatory evaluation approaches that engage beneficiaries in defining success metrics
- Developmental evaluation methods suitable for complex, evolving innovations
- Standardized indicators that enable comparison across initiatives while respecting contextual differences
- Digital platforms for real-time data collection and feedback

8. CONCLUSION

Sustainability in developing countries depends largely on social innovation for creating equal economic growth, tackling environmental problems, and seeking good social life. Social innovation enables the filling of the gaps of the essential services, the reduction of poverty, and climate change adverse effects through innovative solutions like renewable energy initiatives, circular economy models, and community driven enterprises. Probably, one of the most important advantages of social innovation is the fact that it enables local communities to participate, to share knowledge, and to be entrepreneurial. Cooperation between individuals and organizations to come up with sustainable solutions has longer term positive impacts beyond short term economic benefits. For instance, microfinance, sustainable agriculture and projects around affordable clean energy are projects that increase resilience while creating social and also environmental value. However, inequitable issues include financing inadequacies, policy hurdles, and reluctance for technology in developing countries curb scalability and effectiveness of social innovation within such settings. Yet, for these hurdles to be overcome requires cooperative efforts between governments, businesses, and international institutions at building systems conducive to innovation, investment, and knowledge transfer. The impact of social innovation will further be strengthened by strengthening public private partnerships, and through promotion of education on sustainable practices. One can therefore conclude that in the end social innovation is the catalyst for the sustainable development by the innovative solutions it proposes which aim to reconcile economic, environmental, and social objectives. Previously developing countries can build a more resilient and equitable future for generations to come by creating innovative and collaborative culture.

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