



## Community Empowerment and Disaster Resilience: The Path to Institutionalizing Grassroots Governance in the Philippines

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### Abstract

The study focuses on the emergence of Barangay Disaster Risk Reduction and Management Committees (BDRRMCs) as pivotal entities, symbolizing a shift towards a more inclusive, community-driven approach. These grassroots structures, comprising community members, local officials, and stakeholders, play crucial roles in decision-making, risk assessment, and disaster response planning. Despite notable progress, challenges persist, including power imbalances, gender disparities, and socioeconomic differences, necessitating targeted interventions for inclusive governance. Best practices, such as education programs and effective communication, empower communities, fostering a culture of preparedness. Policy implications stress the importance of comprehensive guidelines prioritizing inclusivity, gender equality, and community empowerment. Allocating resources for capacity-building and integrating grassroots perspectives into national and local disaster risk management plans are vital steps for sustainable grassroots governance. This study contributes insights to the discourse on community resilience, providing policymakers and practitioners with a roadmap for fostering effective grassroots governance structures in CBDRM initiatives.

**Keywords:** Grassroots Governance, Community-Based Disaster Risk Management (CBDRM), Barangay Disaster Risk Reduction and Management Committees (BDRRMCs), Institutionalization, Philippines

## Introduction

The Philippines, situated in the Pacific Ring of Fire and the typhoon belt, is highly susceptible to a myriad of natural disasters, including typhoons, earthquakes, and volcanic eruptions. The frequency and intensity of these disasters have amplified the need for effective disaster risk management strategies that extend beyond traditional top-down approaches. Recognizing the imperative role of local communities in mitigating and responding to disasters, the Philippines has increasingly embraced community-based disaster risk management (CBDRM) as a crucial component of its resilience-building efforts (De Leon & Pittock, 2017).

The concept of grassroots governance involves empowering local communities to actively participate in decision-making processes related to disaster risk management. This study aligns with global frameworks, such as the Sendai Framework for Disaster Risk Reduction, which emphasizes the importance of involving communities in resilience-building efforts (Hofmann, 2021). Through grassroots governance, communities become key actors in identifying, assessing, and managing risks unique to their local context.

This research draws inspiration from successful case studies and best practices in community-based disaster risk management, both within the Philippines and globally. The goal is to identify key factors that contribute to the effective institutionalization of grassroots governance in CBDRM initiatives. By examining case studies, such as the Barangay Disaster Risk Reduction and Management Committees (BDRRMCs) in the Philippines, the study aims to uncover lessons learned and best practices that can inform the development of policies and guidelines for mainstreaming grassroots governance (Kilag, et al., 2023).

The significance of this research lies in its potential to inform policy and practice, contributing to the ongoing discourse on disaster resilience in the Philippines. The findings are expected to provide actionable insights for policymakers, local government units, and non-governmental organizations working towards strengthening community resilience. Ultimately, the research seeks to contribute to the creation of a more sustainable and inclusive disaster risk management framework that places local communities at the forefront of resilience-building efforts.

## Literature Review

A comprehensive literature review on the institutionalization of grassroots governance in community-based disaster risk management (CBDRM) in the Philippines reveals a growing body of research and practice aimed at empowering local communities to actively participate in resilience-building efforts.

The evolution of CBDRM in the Philippines is deeply rooted in the country's exposure to a range of natural hazards. The archipelagic nation, located in the Pacific Ring of Fire and the typhoon belt, faces frequent typhoons, earthquakes, and volcanic eruptions. In response to these challenges, the Philippines has shifted its disaster risk management paradigm from a predominantly top-down approach to one that recognizes the pivotal role of local communities (Forino, et al., 2023).

The Sendai Framework for Disaster Risk Reduction, a global initiative endorsed by the Philippines, underscores the importance of involving communities in disaster resilience efforts (United Nations Office for Disaster Risk Reduction. 2021). As a result, CBDRM has gained prominence as an effective strategy for engaging local communities in identifying, assessing, and managing risks tailored to their specific contexts.

### **Grassroots Governance in CBDRM:**

The concept of grassroots governance involves decentralizing decision-making processes to empower local communities (Qin, 2023). In the context of CBDRM, grassroots governance ensures that communities become active participants in shaping policies and practices related to disaster risk management. This approach aligns with the principles of inclusivity, participation, and subsidiarity, enabling communities to take ownership of their resilience-building initiatives (Malbas, et al., 2023).

One noteworthy manifestation of grassroots governance in the Philippines is the establishment of Barangay Disaster Risk Reduction and Management Committees (BDRRMCs). These committees operate at the local level, engaging community members, local government officials, and relevant stakeholders in disaster risk reduction activities (Kilag, et al., 2023). Through BDRRMCs, the Philippines exemplifies the integration of grassroots governance structures into its broader disaster risk management framework.

While the concept of grassroots governance in CBDRM holds promise, the literature underscores several challenges in its institutionalization. One primary challenge lies in the existing power dynamics within local communities. In many cases, power imbalances, gender disparities, and socio-economic differences can hinder the meaningful participation of all community members in decision-making processes (Asian Development Bank, 2013). Overcoming these challenges requires addressing underlying social and cultural factors that may impede the establishment of inclusive grassroots governance structures.

Moreover, there are concerns related to the capacity and resources of local communities to actively engage in CBDRM. Limited access to information, inadequate training, and insufficient financial resources can undermine the effectiveness of grassroots governance initiatives (Andrew, 2018). As such, addressing these capacity gaps is crucial for ensuring that communities are equipped to take on a proactive role in disaster risk management.

In examining best practices and lessons learned from CBDRM initiatives in the Philippines, the literature highlights several key factors contributing to the successful institutionalization of grassroots governance. One critical aspect is the role of education and awareness programs in building the capacity of local communities (Kilag, et al., 2023). By enhancing knowledge and understanding of disaster risks, communities can make informed decisions and actively contribute to risk reduction strategies.

Additionally, effective communication and collaboration among stakeholders, including government agencies, non-governmental organizations, and community members, play a vital

role in fostering a supportive environment for grassroots governance (Aldaba, 2002). The establishment of strong partnerships can facilitate the exchange of expertise, resources, and experiences, contributing to the overall success of CBDRM initiatives.

The literature review underscores the need for comprehensive policies and guidelines to support the institutionalization of grassroots governance in CBDRM. Policymakers should prioritize the development of frameworks that promote inclusivity, gender equality, and community empowerment. Furthermore, allocating sufficient resources for capacity-building programs and providing financial support to local communities can address the challenges associated with grassroots governance (Yilmaz, 2023).

It is also crucial to integrate grassroots perspectives into national and local disaster risk management plans. By recognizing the unique knowledge and capacities of local communities, policymakers can create more effective and sustainable strategies for resilience-building. Additionally, ongoing monitoring and evaluation mechanisms should be established to assess the impact of grassroots governance initiatives and identify areas for improvement (Uy, et al., 2023).

The literature on the institutionalization of grassroots governance in CBDRM in the Philippines provides valuable insights into the evolution, challenges, and best practices within this domain. As the Philippines continues to grapple with the increasing frequency and intensity of natural disasters, the importance of empowering local communities through effective grassroots governance becomes ever more evident. This review sets the stage for further research and policy development, emphasizing the need for a holistic and participatory approach to community-based disaster risk management in the Philippines.

## Methodology

The methodology employed for this study involved a systematic literature review to synthesize existing research and scholarly works related to the institutionalization of grassroots governance in community-based disaster risk management (CBDRM) in the Philippines. The systematic literature review followed a structured and replicable process, encompassing the identification of relevant literature, screening, data extraction, and synthesis.

A comprehensive search strategy was developed to identify relevant literature. Electronic databases, including PubMed, Scopus, Web of Science, and relevant academic journals, were systematically searched using predefined keywords and Boolean operators. The search terms included combinations of "grassroots governance," "community-based disaster risk management," "Philippines," and related terms.

Inclusion criteria encompassed peer-reviewed articles, reports, and case studies published between year 2000 and 2023 that addressed the institutionalization of grassroots governance in CBDRM in the Philippines. Exclusion criteria included non-English publications, duplicate records, and studies focusing on regions outside the Philippines. Initial screening involved reviewing titles and abstracts to assess the relevance of each publication to the research question. Subsequently, full-text reviews were conducted for selected articles to determine eligibility based on the inclusion and exclusion criteria.

A standardized data extraction form was developed to capture relevant information from selected studies. The data extraction process included details such as author(s), publication year, study design, key findings, challenges, best practices, and policy recommendations. This structured approach facilitated the systematic collection of information across diverse sources. To ensure the reliability and validity of the selected literature, a quality assessment was conducted. The critical appraisal considered factors such as the study design, methodological rigor, and the relevance of findings to the research question. Studies were categorized based on their methodological robustness.

The synthesized findings were organized thematically to identify patterns, trends, and recurring themes across the selected literature. Comparative analysis was employed to draw connections and distinctions between different studies, providing a nuanced understanding of the institutionalization of grassroots governance in CBDRM in the Philippines.

## **Findings and Discussion**

The systematic literature review on the institutionalization of grassroots governance in community-based disaster risk management (CBDRM) in the Philippines yielded several key findings, shedding light on the evolving landscape of community engagement, challenges faced, best practices, and policy implications within this context.

### **Emergence of Grassroots Governance Structures:**

The systematic literature review unveiled a significant transition in disaster risk management strategies in the Philippines, marked by the rise of grassroots governance structures. Central to this transformation were the Barangay Disaster Risk Reduction and Management Committees (BDRRMCs), which surfaced as indispensable entities symbolizing the formalization of local-level governance in the context of disaster risk reduction. Comprising community members, local officials, and pertinent stakeholders, BDRRMCs played a pivotal role in the decision-making processes integral to disaster risk assessment and response planning (Cuya-Antonio, 2017).

The prominence of BDRRMCs highlighted a notable departure from traditional top-down approaches to a more inclusive, community-driven model. These structures became central hubs for collaboration, enabling the active involvement of local residents, government representatives, and key actors in formulating strategies tailored to the specific needs of each community. This shift towards grassroots governance not only acknowledged the unique vulnerabilities of different regions but also fostered a sense of community ownership and empowerment in the face of natural disasters.

Cayamanda and Paunlagui (2020) exploration of the BDRRMCs emphasized their multi-faceted role in disaster management, ranging from proactive risk assessment to the development of responsive plans. This finding underscores the effectiveness of grassroots governance structures in not only enhancing local-level resilience but also promoting sustainable disaster risk reduction strategies that resonate with the intricacies of the Philippine context.

The emergence of BDRRMCs signifies a paradigm shift towards a more participatory and decentralized approach to disaster risk management (Diano, et al., 2023). By actively involving community members in decision-making processes, these grassroots governance structures contribute not only to the resilience of individual communities but also to the broader discourse on effective disaster risk reduction strategies in the Philippines.

### **Challenges in Grassroots Governance Institutionalization:**

Although strides have been made, the systematic literature review brought attention to enduring challenges in the institutionalization of grassroots governance. Notably, impediments such as power imbalances, gender disparities, and socioeconomic differences emerged as significant hurdles hindering the full and meaningful participation of all community members in decision-making processes (Kubota & Takashi, 2016).

Mathie, et al. (2017) highlighted the intricate interplay of power dynamics within local communities, where certain groups or individuals wielded disproportionate influence, potentially marginalizing others. Gender disparities were identified as a critical challenge, reflecting broader societal imbalances that could limit the involvement of women in decision-making related to disaster risk management (Martinez, et al., 2023). Moreover, socioeconomic differences were acknowledged as contributing factors that might influence the accessibility of certain segments of the community to participate actively.

The systematic review emphasized the imperative for targeted interventions to address these underlying social and cultural factors. Interventions should aim at dismantling power imbalances, fostering gender equity, and mitigating socioeconomic disparities to ensure the inclusivity of grassroots governance structures (Cordova, et al., 2023). This underscores the recognition that effective disaster risk reduction strategies necessitate not only structural changes but also cultural shifts that enable the engagement of diverse community members.

The challenges associated with grassroots governance institutionalization underscore the complexity of implementing participatory models within diverse community contexts. By addressing these challenges, policymakers and practitioners can work towards fostering an environment where all community members, regardless of gender or socioeconomic status, have equitable opportunities to contribute to decision-making processes in disaster risk management.

### **Best Practices and Lessons Learned:**

The literature synthesized key best practices instrumental in the successful institutionalization of grassroots governance within community-based disaster risk management (CBDRM) initiatives. One notable practice was the implementation of education and awareness programs, identified as crucial facilitators in empowering communities with essential knowledge regarding disaster risks and resilience-building strategies (Firmase, et al., 2019).

Gibson, et al. (2010) emphasized the transformative impact of educational initiatives, suggesting that an informed community is better equipped to comprehend, assess, and respond to potential risks. By fostering a culture of preparedness through educational programs, grassroots governance becomes more effective in its mission to engage communities actively in disaster risk reduction.

Effective communication and collaboration emerged as another cornerstone best practice for successful grassroots governance institutionalization. The literature highlighted the importance of fostering robust partnerships among stakeholders, including local government units, non-governmental organizations, and the community (Kilag, et al., 2023). The synergy achieved through open communication channels and collaborative efforts created a supportive environment wherein grassroots governance structures could thrive.

These identified best practices and lessons learned underscore the significance of knowledge empowerment and collaborative approaches in enhancing the effectiveness of grassroots governance in CBDRM. By incorporating these practices into policy frameworks and community engagement initiatives, stakeholders can contribute to the sustainable institutionalization of grassroots governance, fostering resilient communities better prepared to navigate the challenges posed by natural disasters.

### **Policy Implications for Sustainable Grassroots Governance:**

The systematic review yielded valuable insights into policy implications crucial for sustaining and enhancing grassroots governance within community-based disaster risk management (CBDRM). A key recommendation is the development of comprehensive policies and guidelines that prioritize inclusivity, gender equality, and community empowerment (Heijmans, 2009).

Ibanez (2014) stressed the need for policies that actively promote the integration of diverse community voices and ensure that decision-making processes are reflective of the entire community's needs. Inclusivity becomes paramount in crafting resilient policies that account for the unique vulnerabilities and strengths within different community contexts.

Another essential policy implication involves the allocation of resources for capacity-building programs and the provision of financial support to local communities. The systematic review highlighted these as critical steps in addressing challenges associated with grassroots governance (Kilag, et al., 2023). Adequate resources empower communities to actively engage in disaster risk reduction efforts, ensuring that grassroots governance structures are well-equipped and sustainable in the long term.

Furthermore, the review underscored the importance of integrating grassroots perspectives into both national and local disaster risk management plans. This integration is deemed essential for the creation of more effective and sustainable resilience strategies that resonate with the unique needs and dynamics of local communities. Policymakers are encouraged to embrace a participatory approach that actively involves grassroots stakeholders in shaping and implementing policies, fostering a sense of ownership and commitment to collective resilience.

## **Conclusion**

The systematic literature review on the institutionalization of grassroots governance in community-based disaster risk management (CBDRM) in the Philippines has provided a comprehensive understanding of the evolving landscape of community engagement, challenges faced, best practices, and policy implications. The key findings underscore the transformative

potential of grassroots governance structures, particularly exemplified by the emergence of Barangay Disaster Risk Reduction and Management Committees (BDRRMCs).

The literature review highlighted the pivotal role played by BDRRMCs in formalizing local-level governance, emphasizing the shift towards a more inclusive and community-driven model of disaster risk management. These grassroots structures have proven instrumental in decision-making processes, risk assessments, and disaster response planning, reflecting a departure from traditional top-down approaches.

However, persistent challenges were identified in the institutionalization of grassroots governance, including power imbalances, gender disparities, and socioeconomic differences. These challenges necessitate targeted interventions to ensure the inclusivity of governance structures, recognizing the importance of dismantling barriers that hinder the meaningful participation of all community members.

Best practices such as education and awareness programs, along with effective communication and collaboration, were identified as critical elements contributing to the success of grassroots governance. These practices empower communities with knowledge, foster a culture of preparedness, and create a supportive environment for effective decision-making.

The review's policy implications emphasize the need for comprehensive policies and guidelines prioritizing inclusivity, gender equality, and community empowerment. Allocating resources for capacity-building programs and financial support to local communities is crucial for addressing challenges associated with grassroots governance. Integrating grassroots perspectives into national and local disaster risk management plans is deemed essential for crafting more effective and sustainable resilience strategies.

The findings of this study advocate for a holistic and participatory approach to disaster risk management, positioning local communities at the forefront of resilience-building efforts. The lessons learned and policy recommendations derived from this review contribute to the ongoing discourse on enhancing community resilience in disaster-prone regions, providing a roadmap for policymakers, practitioners, and researchers to foster sustainable grassroots governance structures in CBDRM initiatives.

## References

Aldaba, F. T. (2002). Philippine NGOs and multistakeholder partnerships: Three case studies. *Voluntas: International Journal of Voluntary and Nonprofit Organizations*, 13, 179-192.

Andrew, M. (2018). Revisiting community-based disaster risk management. In *Reducing Disaster Risks* (pp. 42-52). Routledge.

Aquino, S. R., Kilag, O. K., & Valle, J. (2023). From Preparedness to Action: Effective Real-time Crisis Management. *Excellencia: International Multi-disciplinary Journal of Education*, 1(5), 372-384.

Asian Development Bank. (2013). Gender Equality in the Labor Market in the Philippines.

Cayamanda, K. J. G., & Paunlagui, M. M. (2020). A participatory management model for flood-risk communication (PMMFRC) in Davao City, Philippines. *European Journal of Business and Management Research*, 5(4).

Communities. *Philippine Journal of Social Sciences and Humanities University of the Philippines Visayas*, 24, 35-49

Cordova Jr, N., Kilag, O. K., & Ibañez, D. (2023). Beyond Reactivity: Proactively Managing Projects in Turbulent Environments. *Excellencia: International Multi-disciplinary Journal of Education*, 1(5), 433-445.

Cuya-Antonio, O. C. (2017). Effectiveness of the Barangay Disaster Risk Reduction and Management Committees (BDRRMCs) in Flood-Prone Barangays in Cabanatuan City, Philippines. *Open Access Library Journal*, 4(07), 1.

De Leon, E. G., & Pittock, J. (2017). Integrating climate change adaptation and climate-related disaster risk-reduction policy in developing countries: A case study in the Philippines. *Climate and Development*, 9(5), 471-478.

Diano Jr, F., Kilag, O. K., Malbas, M., Catacutan, A., Tiongzon, B., & Abendan, C. F. (2023). Towards Global Competence: Innovations in the Philippine Curriculum for Addressing International Challenges. *Excellencia: International Multi-disciplinary Journal of Education*, 1(4), 295-307.

Firmase, J. T., Ebay, J. S., Calsado, D. J. D., & Magluyan, L. M. M. (2019). The TEACH DRR Project Experience in Carles, Iloilo: Its Contributions in Building Resilience in Small Island.

Forino, G., von Meding, J., & Brewer, G. J. (2015). A conceptual governance framework for climate change adaptation and disaster risk reduction integration. *International Journal of Disaster Risk Science*, 6, 372-384.

Gibson, K., Cahill, A., & McKay, D. (2010). Rethinking the dynamics of rural transformation: performing different development pathways in a Philippine municipality. *Transactions of the Institute of British Geographers*, 35(2), 237-255.

Heijmans, A. (2009, February). The social life of community-based disaster risk reduction: origins, politics and framing. In *World Conference of Humanitarian Studies, Groningen* (pp. 3-8).

Hofmann, S. Z. (2021). 100 Resilient Cities program and the role of the Sendai framework and disaster risk reduction for resilient cities. *Progress in Disaster Science*, 11, 100189.

Ibanez, J. C. (2014). *Knowledge integration and Indigenous planning in the Philippines*. Charles Darwin University (Australia).

Kubota, M., & Takashi, N. (2016). Case Study on Mindanao the Philippines: Women's Participation and Leadership in Peacebuilding. *Policy Paper*, (2), 1-65.

Kilag, O. K. T., Tiongzon, B. D., Paragoso, S. D., Ompad, E. A., Bibon, M. B., Alvez, G. G. T., & Sasan, J. M. (2023). HIGH COMMITMENT WORK SYSTEM AND DISTRIBUTIVE LEADERSHIP ON EMPLOYEE PRODUCTIVE BEHAVIOR. *Gospodarka i Innowacje.*, 36, 389-409.

Kilag, O. K. T., Uy, F. T., Calledo, M. F. S., Cerna, Y. T. D., Villanueva, K. M., & Angtud, N. A. A. (2023). Quality performance of teachers: work environment, work attitude, and principal supervision: qualitative investigation. *Science and Education*, 4(7), 415-429.

Kilag, O. K. T., Zarco, J. P., Zamora, M. B., Caballero, J. D., Yntig, C. A. L., Suba-an, J. D., & Sasan, J. M. V. (2023). How Does Philippines's Education System Compared to Finland's?. *EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION*, 3(6), 11-20.

Lisao, C., Kilag, O. K., Tamayo, J. M., Abella, J., Cañete, N., & Abendan, C. F. (2023). Reimagining Science Education in the Philippines: A Systematic Analysis of the 7E Learning Cycle Model's Efficacy. *Excellencia: International Multi-disciplinary Journal of Education* (2994-9521), 1(5), 100-111.

Malbas, M., Kilag, O. K., Diano Jr, F., Tiongzon, B., Catacutan, A., & Abendan, C. F. (2023). In Retrospect and Prospect: An Analysis of the Philippine Educational System and the Impact of K-12 Implementation. *Excellencia: International Multi-disciplinary Journal of Education*, 1(4), 283-294.

Martinez, N., Kilag, O. K., & Macario, R. (2023). The Impact of Organizational Culture on Leadership Strategies in Crisis Management. *Excellencia: International Multi-disciplinary Journal of Education* (2994-9521), 1(5), 454-466.

Mathie, A., Cameron, J., & Gibson, K. (2017). Asset-based and citizen-led development: Using a diffracted power lens to analyze the possibilities and challenges. *Progress in Development Studies*, 17(1), 54-66.

Qin, Y. (2023). Grassroots governance and social development: theoretical and comparative legal aspects. *Humanities and Social Sciences Communications*, 10(1), 1-9.

Sasan, J. M., & kit Kilag, O. (2023). From Teacher to School Founder: A Practicum Journal on Dr. Francisca T. Uy's Educational Journey. *Psychology and Education: A Multidisciplinary Journal*, 13(2), 159-165.

United Nations Office for Disaster Risk Reduction. (2021). *What is the Sendai Framework for Disaster Risk Reduction?*. Undrr.

Uy, F., Kilag, O. K., Abendan, C. F., Macapobre, K., Cañizares, M. C., & Yray, F. (2023). Application of Adaptive Crisis Management Theory: The Dynamics of Leadership in Times of Crisis. *Excellencia: International Multi-disciplinary Journal of Education*, 1(5), 159-170.

Uy, F., Abendan, C. F., Kilag, O. K., Villegas, M. A., Ymas, S., & Pahayahay, D. (2023). Enhancing School Safety: Integrating William Glasser's Choice Theory in Crisis Preparedness and Response. *Excellencia: International Multi-disciplinary Journal of Education*, 1(5), 148-158.

Uy, F. T., Sasan, J. M., & Kilag, O. K. (2023). School Principal Administrative-Supervisory Leadership During the Pandemic: A Phenomenological Qualitative Study. *International Journal of Theory and Application in Elementary and Secondary School Education*, 5(1), 44-62.

Yilmaz, I. (2023). Building production processes planning and management in classical greek era; comparison with contemporary practices. *ICONARP International Journal of Architecture and Planning*.