Research Article

The Community-Based Monitoring System of Philippine Statistics Authority in North Cotabato: Basis for A Pre-Deployment Training Program

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ABSTRACT

This study provides a comprehensive review and analysis of the vital role of enumerators in the Community-Based Monitoring System (CBMS) in North Cotabato, Philippines. The research aims to shed light on the responsibilities, challenges, and impacts faced by enumerators during the data collection process, as well as to propose evidence-based strategies for improving their performance and the accuracy of data collection. The CBMS is a crucial system for collecting disaggregated data necessary for evidence-based decision-making and targeted development programs. However, there needs to be more literature regarding the specific challenges and roles of enumerators in ensuring the accuracy and integrity of the monitoring process. By addressing this gap, this study strives to enhance the effectiveness and reliability of the CBMS. Drawing from international, national, and local contexts, this research provides insights into the importance of enumerators' roles based on experiences from other countries implementing similar systems. It discusses the potential biases and errors enumerators may encounter during data collection. It emphasizes the need for community collaboration and support to ensure the accuracy and comprehensiveness of the collected data. Furthermore, the study highlights the significance of understanding enumerators' roles in identifying poverty hotspots, tracking changes in poverty levels, and devising targeted interventions to address the root causes of poverty. By bridging the gap in the literature, this research aims to contribute to a better understanding of the enumerator's role and offer valuable insights for future research and the development of strategies and training programs to improve the CBMS.

Keywords: *Community-Based Monitoring System (CBMS), Training, program, Philippine Statistics Authority, Enumerator, Data collection*

Introduction

The Philippine Statistics Authority (PSA) must maintain a comprehensive and accurate statistical system for shaping public and government programs and policies. Its responsibilities span collecting, analyzing, and disseminating data across various sectors, which supports informed decision-making and sustainable development in the country. The Community-Based Monitoring System (CBMS), initiated under Republic Act No. 11315, focuses on gathering data directly from communities, particularly on vital aspects like health, housing, education, and employment. This study highlights the importance of enumerators' responsibility for collecting detailed local data in North Cotabato. Despite their essential role in ensuring data quality and supporting evidence-based decisions, limited research exists on their challenges and their impact on the monitoring system's integrity. This study seeks to fill this gap, aiming to understand enumerators' perceptions, responsibilities, and challenges, which can guide the development of strategies for improving data collection, training, and reducing potential biases in the monitoring process.

International Background

The Community-Based Monitoring System (CBMS) aligns with Sustainable Development Goal (SDG) 16, promoting inclusive societies and effective institutions. This alignment supports a comprehensive framework to address global challenges such as poverty, inequality, and sustainable development (Noterdaeme & Desmet, 2020). By focusing data collection on areas identified by the SDGs, CBMS enables local communities to contribute to global development targets. This contributes to accountability, transparency, and informed local decision-making, helping monitor progress and tailor interventions to specific needs (Oloo, 2017).

Initially developed by the United Nations Development Programme (UNDP) in the early 1990s, CBMS addresses the demand for detailed, timely data to track poverty and development at the local level. It has since been implemented in 14 countries across Africa, Asia, and Latin America (Robino, 2022). For example, a study in Punjab, Pakistan, utilized CBMS to assess poverty in both rural and urban areas, aiding local governments in creating effective social welfare and poverty alleviation strategies (Akhtar Noon, 2020). Beyond monitoring progress toward the Millennium and Sustainable Development Goals, CBMS data informs local policies, supports evidence-based decision-making, and addresses specific community gaps.

The International Development Research Centre-Canada has played a significant role in supporting CBMS for over a decade, advocating for data-driven poverty reduction. Their report, "Fighting Poverty with Facts," emphasizes the empowerment of communities through CBMS and highlights the ongoing need for investment in these initiatives globally.

National Background

The Community-Based Monitoring System (CBMS) in North Cotabato aligns with the Philippine Development Plan 2023–2028, serving as a vital tool to gather localized data on poverty, inequality, and other critical areas. This alignment allows CBMS to track progress, facilitate targeted interventions, and support the national sustainable development agenda (Diokno-Sicat, Adaro, & Maddawin, 2020).

The CBMS, originally designed by Pedro and Florentino in 1992 under the Micro Impacts of Macroeconomic Adjustment Policies (MIMAP) Phase II, was modified by Reyes and Alba in 1994 to encourage local government-based implementation for sustainability. It was pilot-tested in Pandi-Bulacan in 1995–1996 and again in 1999 to assess the impacts of the 1997–1998 Asian financial crisis and El Niño. The system expanded to Palawan in 1999 and Puerto Princesa in 2001, with core indicators formalized during the National Anti-Poverty Commission's Seventh En Banc Meeting in 2022. This led to the Department of Interior and Local Government's Memorandum Circular No. 2003-92, outlining guidelines for adopting local poverty indicators in planning.

In 2022, the Philippine Statistics Authority (PSA) partnered with Local Government Units (LGUs) to implement CBMS in 331 cities and municipalities, involving over 6,000 enumerators, 1,312 team supervisors, and 400 area supervisors across more than 5,000 barangays. The PSA's first CBMS was conducted in 2021 to

refine tools and systems, followed by a 2022 rollout covering about 250 LGUs. The 2023 CBMS enumeration spanned from March 27 to June 10, 2023, lasting approximately 52 working days (Philippine Statistics Authority, 2023).

Local Background

North Cotabato, a landlocked province in the Soccsksargen region of Mindanao, Philippines, covers 656,590 hectares and is home to 1,490,618 residents (Province of Cotabato, 2018; Philippine Statistics Authority, 2021). Known for its rich cultural diversity, North Cotabato includes communities with Ilonggo, Cebuano, and Maguindanao populations. The 2022 Community-Based Monitoring System (CBMS) launched in North Cotabato on October 20, 2022, in collaboration with local government units (LGUs), focuses on collecting data across socioeconomic factors like income, education, health, and housing. This data guides local development efforts, enabling policymakers to identify poverty hotspots and track poverty changes over time, ensuring resources are effectively targeted (Diokno-Sicat, 2020).

The CBMS provides valuable data for the North Cotabato Provincial Development Plan and Sustainable Development Goals, supporting interventions for vulnerable populations. However, enumerators face challenges, including access issues, language barriers, and logistical constraints, which may impact data quality. This study aims to address these gaps, offering insights into enumerators' experiences to improve the CBMS process and strengthen future data-gathering efforts.

Methods
Research Design

This study employs a quantitative research design, which is well-suited for examining the Community-Based Monitoring System (CBMS) of the Philippine Statistics Authority in North Cotabato. This design allows for the objective measurement and statistical analysis of various variables, including the experiences, duties, responsibilities, and challenges faced by CBMS enumerators. By utilizing structured surveys and questionnaires, the research collects consistent and unbiased data from a large sample size, enhancing the generalizability of the findings.

The quantitative approach enables the testing of hypotheses regarding the factors that impact enumerators' effectiveness and well-being, and it facilitates the identification of prevalent issues through statistical analysis. This data-driven methodology provides reliable conclusions that inform targeted, evidence-based solutions, ultimately aiming to enhance the roles of CBMS enumerators and improve the quality of data collected. Overall, the structured and objective nature of quantitative research effectively addresses the complex challenges of the CBMS program and supports the implementation of scalable improvements.

Research Method

This study employed a descriptive-correlational method combined with total population sampling to gather and analyze data on the roles of enumerators in the Community-Based Monitoring System (CBMS) in North Cotabato. The descriptive-correlational approach enabled the measurement of relationships between variables without manipulation, making it ideal for exploring new phenomena and evaluating program effectiveness. Total population sampling involved surveying the entire population that met specific criteria, ensuring comprehensive insights into the enumerators' experiences, challenges, and performance while eliminating sampling bias. Although resource-intensive, this approach was feasible given the manageable size of the enumerator population. Questionnaires were administered to collect demographic data and insights from enumerators about their roles in collecting CBMS data, addressing various aspects of their experiences, including challenges and suggestions for improvement. The analysis provided a thorough evaluation of the CBMS process, informing future efforts to enhance its efficiency and effectiveness.

Population of the Study

This research used total population sampling to define the study's population, which consists of individuals from the Philippine Statistics Authority in North Cotabato. The partic-

ipants include CBMS Enumerators, Team Supervisors, CBMS Area Supervisors, Head CBMS Area Supervisors, and the Provincial CBMS Focal Person.

The sample encompasses 500 enumerators, 55 team supervisors, 10 area supervisors, 9 head area supervisors, and 1 provincial focal person. By including the entire population that meets specific criteria, this method aims to eliminate statistical uncertainty and provide a thorough understanding of the group's characteristics and experiences. This comprehensive approach is designed to yield valuable insights into the Community-Based Monitoring System's effectiveness and the roles of its members.

Data Gathering Tools

The primary research instruments for this study are a survey questionnaire and unstructured interviews. The questionnaire is meticulously designed based on the 2023 CBMS Enumerators Manual from the Philippine Statistics Authority to ensure its relevance.

To validate the questionnaire, a two-step process was employed: face validation, wherein experts reviewed the questionnaire for clarity and alignment with the study's objectives, followed by content validation, which involved a detailed examination by field specialists to ensure that the questions accurately captured the necessary data.

Reliability was measured using Cronbach's alpha, assessing the internal consistency of the questionnaire, with a high score indicating effective measurement of the intended variables. Before data collection, the questionnaire was pilot-tested with 30 respondents to identify and rectify potential issues.

Data processing and analysis were performed using SPSS (Statistical Package for the Social Sciences) software, appropriate for managing large datasets and executing complex statistical analyses. The integration of structured questionnaires, unstructured interviews, and rigorous validation methods guarantees comprehensive and reliable data collection, ensuring high quality for subsequent analysis.

Data Gathering Procedures

The data-gathering procedure for this research study was conducted with a structured and ethical framework to ensure the reliability and integrity of the findings. The researcher secured necessary approvals by submitting formal requests to the Dean of the Graduate School of the Philippine College of Criminology and the city and municipal mayors for authorization to collect data from Community-Based Monitoring System (CBMS) personnel.

Participants were informed about the study's objectives and ethical considerations and informed consent letters were distributed via email to all CBMS personnel, emphasizing their voluntary participation. The primary data collection instrument, a survey questionnaire based on the 2023 CBMS Enumerators Manual, was distributed through Google Forms for secure and efficient data collection. The survey questionnaire was distributed to the target CBMS personnel with a clear timeframe for completion. Respondents from selected municipalities and the city within North Cotabato participated either by personally answering the questionnaires or through Google Forms, which were conveniently shared via electronic mail and messages. Responses submitted through Google Forms were automatically recorded and calculated in a Google Spreadsheet, ensuring efficient data management. While reaching out to former CBMS personnel in the selected localities posed some challenges, the unwavering support and assistance of the LGUs greatly facilitated the process. The researcher remained readily available to address any queries or concerns, ensuring a smooth and responsive data collection phase.

Before distribution, the questionnaire underwent a comprehensive validation process, including a review by experts from the Philippine Statistics Authority and a pilot test with community members to refine its content. Reliability was assessed using Cronbach's alpha, with a target coefficient of 0.70 or higher. Participants were given a designated timeframe to complete the questionnaire, with the researcher available for any inquiries.

After data collection, responses were securely stored and analyzed using various statistical techniques. Ethical considerations and data privacy were prioritized throughout the process, including anonymizing data to protect participant confidentiality. The findings were compiled and presented objectively, ensuring adherence to ethical standards and enhancing the study's validity and reliability.

Treatment of Data

In the quantitative study examining the roles of enumerators in the Community-Based Monitoring System (CBMS) of the Philippine Statistics Authority in North Cotabato, a systematic approach was adopted for data summarization and analysis utilizing various statistical techniques. The percentage technique was employed to determine the distribution of responses for specific variables, which helped identify trends and prevalence within the data. Additionally, the weighted mean was calculated to assess the central tendency of responses, accounting for the significance of each response and emphasizing the importance of specific enumerator roles. Ranking was utilized to evaluate the relative significance of various factors, thereby identifying the most critical functions of enumerators in the CBMS. The Chi-Square test analyzed the relationship between two categorical variables, focusing on how demographic characteristics influenced enumerator roles. Moreover, the Kruskal-Wallis H test and Kendall's Coefficient of Concordance W were applied as non-parametric methods to assess the level of agreement among respondents regarding the importance of various enumerator roles. The data analysis followed a rigorous quantitative approach, with significance set at a probability level of 0.05. This comprehensive methodology ensured accurate findings, contributing to a deeper understanding of the complex dynamics of enumerator responsibilities within the CBMS framework.

Ethical Considerations

The ethical considerations of this research study are thoroughly addressed to uphold participant welfare and integrity. Before participation, clear consent letters were provided to respondents, detailing the study's purpose, procedures, potential risks, and benefits, while emphasizing the voluntary nature of their involvement. Participants were assured that their data would be used solely for research purposes. To ensure anonymity and confidentiality, participant responses were anonymized and aggregated, with secure data storage and management practices implemented to protect sensitive information.

Respect for autonomy is a guiding principle in this study; participants were informed of their right to withdraw from the research at any time without repercussions, as stated in the consent documents. The study did not involve vulnerable populations, thereby reducing ethical concerns and ensuring that all participants were selected based on non-discriminatory criteria. During data collection, Google Docs was utilized for distributing questionnaires, with settings adjusted to collect anonymous responses, further protecting participant privacy. Follow-up requests for participation were conducted respectfully, ensuring that individuals could decline without pressure.

After data collection, participants were offered a debriefing session to summarize findings, acknowledge their contributions, and share insights from the study. Collectively, these ethical considerations ensure that the study is conducted with integrity, transparency, and respect for participants' rights and privacy.

Result and Discussion

The results and discussion of this study were structured around the key objectives related to the roles of enumerators in the Community-Based Monitoring System (CBMS) in North Cotabato. Each section was introduced with a description of the specific topic addressed, followed by relevant tables that summarized the findings.

Table 1 presents the attainment levels of enumerators across several identified variables. In terms of Training, the overall mean rating of 2.20 indicates that enumerators effectively acquired the necessary skills and knowledge through the training program. They exhibited regular attendance, engagement, and competence during practice sessions, demonstrating a solid understanding of CBMS

concepts and proficiency in managing challenging data collection situations.

Regarding Working Time, an overall mean rating of 2.0 reflects that enumerators generally showed commitment to their work, including flexibility in scheduling interviews to accommodate respondents. They maintained punctuality and effectively managed their time, fulfilling their daily and weekly responsibilities.

The Area of Assignment received a rating of 2.06, suggesting that enumerators generally met expectations in completing tasks within the prescribed timeframes. They efficiently managed their workloads, familiarized themselves with their designated areas, and executed enumeration activities effectively, all

while addressing challenges encountered in their assignments.

For Duties and Responsibilities, the overall rating was 1.84, classified as moderately attained. This indicates that while enumerators adhered to the CBMS manual and completed interviews accurately, there were areas needing improvement, such as data accuracy and adherence to instructions.

Lastly, the Working Relationship with Team Supervisors received a commendable rating of 2.93, signifying that enumerators generally excelled in communication, strategy discussion, and maintaining rapport with supervisors. This collaboration is essential for optimizing the CBMS process and achieving program objectives.

Table I. The level of the attainment of the roles of enumerators in CBMS and the Degree of seriousness of challenges encountered by CBMS Enumeratorss in terms of Identified Variables

Variables	Weighted Mean of Attainment of Roles	Weighted Mean of Seriousness
Training	2.20	2.99
Working Time	2.00	2.29
Area of Assignment	2.06	2.35
Duties and Responsibilities	1.84	2.61
Working Relationship with Team Supervisor	2.93	2.51

Table II. Significant difference in the perceptions of the respondents along the different roles of enumerators in CBMS

Correlations				
			Position	MEAN_RESPONSE
Kendall's tau_b	**Position**	Correlation Coefficient	1.000	.054
		Sig. (2-tailed)		.022
		N	515	515
	MEAN _RESPONSE	Correlation Coefficient	.054	1.000
		Sig. (2-tailed)	.022	
		N	515	515
Kruskall Wallis test				4.505
df				4
Asymp. Sig.				.042

Table III

Variables	Weighted Mean
Personal	3.15
Professional	2.79
Social	2.92
Variables	**Weighted Mean**

Table IV. Degree of necessity of the suggestions offered to enhance the attainment of the roles of enumerators in CBMS

Variable	Weighted Mean
Training	3.39
Working Time	2.40
Area of Assignment	3.02
Duties and Responsibilities	3.34
Working Relationship with Team Supervisor	3.07
Overall Well-being	3.15

Conclusion

The study examining the roles of enumerators in the Community-Based Monitoring System (CBMS) identified critical insights and challenges across five key areas: training, working time, area of assignment, duties and responsibilities, and working relationships with team supervisors. Overall, enumerators demonstrated confidence and effectiveness in their tasks, indicating that the training they received was beneficial. However, a gap in active participation during training sessions was evident, suggesting that while enumerators could absorb the content, they may not fully internalize it. In terms of working time, enumerators exhibited commitment by meeting required hours but struggled with flexibility and punctuality, indicating a need for improved time management strategies. Challenges related to the area of assignment were significant, with enumerators feeling overwhelmed, highlighting the need for better workload management and logistical support. Although enumerators generally adhered to their duties and responsibilities, there was a noticeable need for more thorough reviews of completed questionnaires to ensure data accuracy. The working relationships with team supervisors were generally positive; however, improvements in quality assurance measures and responsiveness to enumerators' concerns were necessary. The Kruskal-Wallis test revealed variations in satisfaction and effectiveness regarding enumerator roles, indicating the necessity for targeted interventions.

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In closing, the researcher hopes that this study will advance understanding of the CBMS of the Philippine Statistics Authority in North Cotabato and contribute to improving the system's effectiveness and efficiency, ultimately benefiting the community.

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