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Fwd: Re: Manuscript Submission

2 messages

Isaac Agbunuhor <isaacagbunuhor@gmail.com>
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Tue, Jan 7, 2020 at 8:15 AM

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Acceptance Notification

Dear Author,

Last Date of Final Documents Submission: 30th December 2019
Online Publication Date: 02th January 2020

Paper ID:	WAJM-02725-121
Title:	Mapping Poverty and Deprivation in Barikin-Sale, Minna, Nigeria

It is our pleasure to inform you that your papers identified above have been accepted for publication "World Academics Journal of Management", Vol.7, Issue.2, December 2019 Edition with minor revision in your manuscript/paper after referees review comments on the basis of following parameters like originality, novelty, clarity, completeness, relevance, significance and research contributions.

Overall Evaluation

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Recommendations for Review

Manuscript requires minor revisions from author(s)

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Overall Referees Review Comments

The paper seems good presentation. But these factors are must be modified—

1) Figure has a poor quality, it requires improvement.

Federal University of Technology Minna Mail - Fwd: Re: Manuscript Submission.

- The author should focus on the obtained result. The result should be briefly reviewed.
- Conclusion is not presented in an appropriate fashion and is supported by the data.
- Some grammatical errors are there in the paper.

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Please correct grammatical errors before sending the final camera ready paper.

Authors should not mention designation (Dr. Prof. Mr. etc). You are requested to mention only name, full name of college/organization, city, country, and author's email.

The abstract's length should be a minimum of 150 words and a maximum of 250 words; it should be confined within a single paragraph.

Figure/Image should be clear and visible: unclear images replaced by clear figure/self-create using MS Excel. Clearly mention the figure name and numbers in ascending order.

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Heading of the figure should be provided at the bottom of the figure.

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All the references should be mentioned inside the paragraph in IJSRMS/IEEE format. References must be serially numbered and should be arranged in increasing order of number quoted in the text. References must be quoted in the text as numerals at the end of the sentence, before full stop, with bracket e.g.solution [1]. It is an international journal [2],[3],[4],[5],[6],, [N] that is increasing order. You have started references form [9].[1].[2].[3].[4].[7].[4].[5].[6] this is not correct.

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Example: S.K. Sharma, L. Gupta, "A Novel Approach for Cloud Computing Environment", International Journal of Scientific Research in Multidisciplinary Studies, Vol.4, Issue.12, pp.1-5, 2014.

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Mapping poverty in urban centres is an indispensable exercise, especially in this century of 'urbanisation of poverty'. Not only will such exercise inform public policy, it is also necessary for guiding business and investment planning. Furthermore, it will provide policy support. In a nutshell, poverty mapping is a creative decision support tool. The need for a study like this, therefore, cannot be overemphasised. Many approaches have been used to elicit the multifarious nature of poverty and the suggestions have been raised to that effect. However, little has been explored on the spatial dimension of poverty occurrence and its impacts in Nigeria. This study therefore attempts to undertake poverty mapping of Barikin Sale in order to cover this gap by adopting the principal component and GIS techniques of poverty mapping.

1.4 Aim and Objectives

The aim of this study is to undertake the mapping of the multiple dimensions of poverty incidence in Barikin-Sale neighbourhood of Minna. To achieve this aim, the following objectives are set for the study:

- To obtain the map of the study area and delineate it into small areas
- To acquire data on household deprivation in Barikin-Sale
- To assess the rate of poverty in the study area using principal component and GIS techniques iii.
- To produce a poverty map of Barikin-Sale iv.

1.7 The Study Area

Barikin Sale is a neighbourhood in the western part of Minna, Niger State, Nigeria. Minna is a misspelling of the Gbagyi word 'Myina' which was the original name, meaning a cottage on the hill top ([4] as cited in [5]). By implication, the original settlers of Minna were on the hilltops of the area. [5] reported that the hills provided secured home for the Gwari settlers, the indigenous owners of Minna and protected them from the invasion from the Nagwamatse led group from Kotangora town; a settlement some 160km away from Minna. He, however, noted that from about 1905 when railway lines reached Minna and when effective colonial occupation started giving security to Minna, residency on hill tops ceased to be a norm.

Acording to [6], Minna is located on Latitude 9°37' North and Longitude 6°33' East and occupies a land area of about 884 hectares, It is about 145km by road from Abuja, the Federal capital of Nigeria. Minna metropolis has grown to engulf suburb settlements such as Bosso, Maitumbi, Dutsen Kura, Kpakungu, Shango and Chanchaga [7]. The map of the study area is presented in Figure 1.

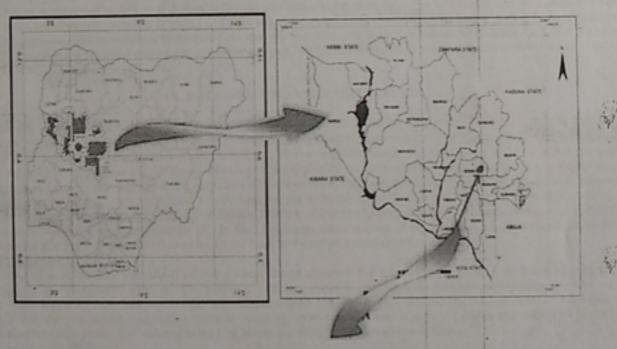




Fig. 1: Location of the Barikin Sale in Nigeria Source: Author's digitisation (with modifications from [7])

II. METHODOLOGY

The data required for this study were obtained from both secondary and primary sources. The secondary data were basically obtained from publications and they are adequately referenced. The primary data, on the other hand, were obtained through questionnaire administration. For ease of data collection and analysis, the study area was subdivided into 10 sub-units which were termed as sub-neighbourhoods (Figure 1). Ten copies of the questionnaire were administered to each sub-neighbourhood through systematic random sampling technique. Data analysis was done with the aid of Statistical Package for Social Sciences (SPSS) to conduct the principal component and factor analysis, while the poverty maps were produced with the aid of ArcGIS 10.

III. DATA ANALYSIS AND PRESENTATION

The poverty mapping exercise draws considerable lessons from the Principal Component technique which has been consistently applied by the Mexican Government in disaggregating poverty at community level (that is, the PROGRESA Anti-poverty Programme). The neighbourhood was divided into 10 sub-neighbourhoods. The underlying principle is that the index makes reference to 1: the close the calculated index is to 1, the higher the occurrence of the component factor. Consequently, as can be seen in Table 1 the lowest adult illiteracy rate (.00) is recorded in sub-neighbourhood 9, while the highest adult illiteracy rate (.50) is recorded in sub-neighbourhood 3, indicating that acute literacy deprivation is experienced in sub-neighbourhood 3. Therefore, residents of sub-neighbourhood 3 of Barikin Sale are educationally poor. Literacy is a fundamental indicator of the Human Development Index developed by [8]. In fact, [9] argues that the level of education of people defines the level of development of a place. As such, sub-neighbourhood 3 has low level of human development.

High level of water poverty was identified in the study. It was observed that sub-neighbourhoods 4, 8, 9 and 10 experience water stress with marginality index of 0.5. In similar vein (but lesser in intensity), sub-neighbourhood 7 experiences water stress with marginality index of 0.4. Although sub-neighbourhood 3 has the highest marginality index in terms of adult literacy level, it recorded the lowest marginality index in terms of water stress. Water is a very fundamental requirement for the survival of man; as a result, it is included in the United Nations Sustainable Development Goals (SDGs).

In relation to sanitation, it was discovered that households in sub-neighbourhood has a marginality index of 0.4. Only households in sub-neighbourhood I have a marginality index of 0.00, and therefore have adequate sanitation. Poor sanitation is therefore an affront on health, and can undermine HDI.

Energy is inevitable for human survival. Clean domestic energy source can help in reducing greenhouse gas and consequent global warming. However, when people experience energy poverty, they are likely to increase the ecological footprint of household energy consumption and thereby undermine ecological sustainability. Households in sub-neighbourhoods 2, 3 and 5 record energy marginality index as high as 0.4. Although this marginality index is moderate, it reflects energy justice issues.

Table 1: Principal Component Marginality Index of Barikin Sale

INDICATORS	SUB-NEIGHBOURHOODS (QUARTILES)									
	1	2	3	4	5	6	7	8	9	10
Share of illiterate adults	.20	.20	.50	.20	.10	.20	.10	.20	.00	.20
Dwellings without water	.30	.30	.20	.50	.30	.30	.40,	.50	.50	.50
Dwellings without toilet	.00	.30	.40	.10	.30	.30	.10	.30	.10	.30 /)
Dwellings without electricity	.00	.40	.40	.00	.40	.20	.10	.20	.00	1,00,7
Share of organised workers	30	.20	.10	.30	.20	.20	.30	.30	.30	.30
Share of household size above national average	.70	.70	.90	.60	.70	.70	.60	.50	.60	.50

Source: Author's Field Survey, 2019

The calculated marginality index based on the quartiles (which has been termed 'sub-neighbourhoods for clarity) is presented in form of maps. Each of the indicators was mapped using the calculated index to determine the extent and intensity of deprivations suffered by different sections of Barikin Sale. While some neighbourhoods performed relatively well on some indicators, they weighted low on others. However, the sub-neighbourhoods with the highest percentage of dwellings without electricity are found to be clustered close to each other. The poverty maps based on the calculated marginality index uting principal component approach are presented in Figures 2-5.

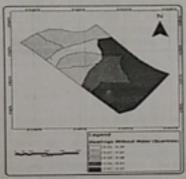


Fig. 2: Share of dwellings without water Source: Author's Lab work, 2019

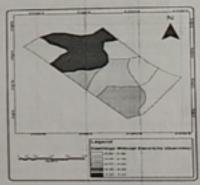


Fig. 3: Share of dwellings without electricity Source: Author's Lab work, 2019

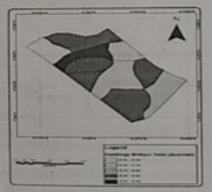


Fig. 4: Share of dwellings without toilet Source: Author's Lab work, 2019

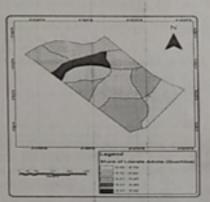


Fig. 5: Share of literate adults Source: Author's Lab work, 2019



IV. CONCLUSION AND RECOMMENDATIONS

Poverty is a very serious problem bedeviling almost every nation in the world. However, the intensity and magnitude varies from one place to another. Globally, South-East Asia and sub-Saharan Africa has the largest proportion of their citizens trapped by poverty. Within Africa, poverty in Nigeria is of such magnitude that the country was recently referred to as the 'poverty capital of the world'. This is a very worrisome development which engendered this study to disaggregate poverty at community level using the principal component approach. Through the marginality index calculated from each component at sub-neighbourhood level, poverty maps were generated by applying Geographic Information System (GIS) techniques with the aid of ArcGIS. Geographic Information System plays tremendous role in aiding mapping in general and the mapping of socio-economic indices in particular. By blending the Principal Component and GIS techniques, it was discovered 'that neighborhoods should be broken up into smaller sub-units in order to understand the internal recesses they encounter in their daily lives. This is because, evidence from this study indicates that generalized mapping of neighbourhoods as a single unit has the potential of hiding some basic truths about the internal stresses that the households face. For example, while overall adult literacy rate was found to be up to 81%, it is important to note that this figure does not cut across the whole of Barikin Sale since up to 50% of the residents in sub-neighbourhood 3 are not formally educated.

Stemming from the findings of this study, it is recommended that subsequent poverty mapping efforts should endeavour to adopt the principal component approach in disaggregating poverty at community level owing to its ability to reveal hidden realities of poverty above other methods. Furthermore, concerted efforts need to be put in place to ensure that the welfare of the residents are taken care of, especially in the area of production and distribution of clean and affordable energy, water and sanitation services to the households in the study area. More so, measures should be put in place to ensure that the free basic education operated in Niger State extends to adult literacy and the adults in Barikin Sale should be encouraged to enroll in adult literacy classes. Having done these, it is believed that the wellbeing of the residents of the study area will be improved significantly. This study did not include the role of religion and culture in intensifying poverty in the study area; thus, further in-depth studies are required to establish this relationship. Finally, this study adopted the principal component technique among a host of other techniques of poverty mapping. Other approaches may yield dissimilar results. Therefore, it is also suggested that other approaches should be applied to measure poverty at the sub-neighborhood level in order to verify the authenticity of the results.

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ISAAC, Ibelieve is an independent researcher and postgraduate student at the Department of Urban and Regional Planning, Federal University of Technology, Minna, Nigeria. His research interests are poverty, urban security, gender, housing, informal economy, municipal solid waste management, energy and propor livelihoods. He has published widely in both national and international journals.



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