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Impact of Rural Road on Socio-economic Development of Otukpo and Agatu Local Government Area of Benue State

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Abstract: The research aims to analyse the influence of rural roads on the socioeconomic development of Benue state's Otukpo and Agatu local government areas (LGAs). The survey method is used as the research strategy in this study. Traders, farmers, youth, and seniors who have resided in these locations for at least four (4) years are the target responders. The study included 400 participants. In this investigation, the random sampling approach was also used. Five rural villages were selected from each of the LGAs. Data was gathered from both primary and secondary sources. A questionnaire and interviews were the primary sources. Secondary sources included periodicals, textbooks, published or unpublished resources, and internet items that could not be retrieved through primary data. In this study, data was gathered using a questionnaire and an interview with structured questions (both open-ended and closedended). The instrument yield reliability coefficient is 0.07, and the data was presented in tabular form using frequencies and percentages. Rural development, according to this work, is the provision of basic amenities, infrastructure, increased agricultural production, extension services, and job creation for rural inhabitants. One of the most prevalent approaches to rural development used by developing nations across the world is infrastructure supply. The infrastructure proposed for rural development might be physical, social, or institutional. This work also suggested that the government construct suitable highways in conjunction with a private organisation in order to enhance the lives of rural inhabitants in the two local government regions and boost rural development in the area.

Keywords: Rural Road, socio-economic, development

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INTRODUCTION

Infrastructure such as roads remains one of the major assets, as do the services needed for the sustainability of dwellings. Research rural development has only recently begun to pay attention to rural roads (Sati & Vangchhia. 2017). Only in the early 1960s did organisations like the World Bank and the International Bank for Reconstruction and Development begin to include Third World issues on their development agenda (Plessis-Fraissard, 2014). Rural roads received very little attention because they were primarily component considered a of investment in the agricultural sector prior to the 1960s, when these organisations exclusively concentrated on the urgent need for structural infrastructure development.

In the late 1990s and early 2000s, about 900 million people in developing nations lived in rural areas without reliable all-season roads, and about 300 million lived in places that were inaccessible to any kind of vehicle (Lebo & Schelling, 2015). After the 1990s, rural roads gained substantial attention, and organisations like the International Forum of Rural Transport and Development (IFRTD) gained influence in supporting the rural transportation sector in developing nations worldwide (Booth, Hanmer, & Lovell, 2016). The sub-Saharan Africa **Transport** Partnership (SSATP) programme has been instrumental in advancing policy creation in Africa's road sector.

Rural roads are significant since they make up more than 80% of the overall road networks in developing nations. Additionally, they facilitate up to 90% of all mobility in developing countries' inland regions (Chakwizira, Whemachena, Mashiri, & 2014). According to statistics, more people (more than 63% of the population) live in rural regions than in cities in Africa. Rural roads are significant since they make up more than 80% of the overall road networks in developing nations. Additionally, they facilitate up to 90% of all mobility in developing countries' inland regions (Chakwizira, Whemachena, & Mashiri, 2014; Otu & Nabiebu, 2022). According to statistics, more people (more than 63% of the population) live in rural regions than in cities in Africa.

Additionally, figures revealed that up to 90% of people in rural Asia and Africa live in poverty (Mhlanga et al, 2021). According to studies, isolation is a major contributor to rural poverty in emerging nations (Thiede & Slack, 2017). In research done in 2000, nearly 40,000 people—women and men—in different nations were asked to talk about their lives and explain what poverty meant to them. According to the studv's findings. the majority participants did not express a strong belief that poverty is primarily caused by a lack of resources but rather that it is primarily characterised by physical, social, and political isolation (Plessis-Fraissard, 2014).

Adedeji, Olafiaji, Omole, Olanibi, and Yusuff (2014) observed that rural and transportation infrastructure development in Nigeria are current challenges and are widely seen as essential elements for a nation's economic development. The authors further said that discrepancies in the degree of development are brought about by inequalities in the provision of road infrastructure and rehabilitation. Agricultural operations, which are the main source of income for locals, are negatively impacted by the poor state of the roads in rural areas, which exacerbates poverty.

An investigation by Kakwagh (2018) in Nigeria, more specifically Benue State, revealed that rural roads are essential to the socioeconomic growth of rural communities. The author pointed out that because of their affordable transportation costs, rural roads improve market accessibility and population accessibility. Good roads connect rural and urban areas, resulting

in more favourable prices for farmers, fewer produce losses, and lower costs for consumers (Otu & Enyia, 2015; Out, 2018). Therefore, this study looks at how roads affect social-economic development in the rural parts of Benue State's Otukpo and Agatu LGAs.

Statement of the problem

Numerous factors influence the social-economic development of rural communities. Access to transportation and services for the population living in rural areas is one of these essential requirements (Otu & Mohammed, 2009; Kakwagh, 2018). Rural roads are the primary factor in poverty reduction in Benue State and Nigeria generally, aside from the movement of people. Rural roads affect how people move, transport their goods, and obtain information. Services can be transported consumers while roads are open. Roads enable individuals to be mobile (Tighe, 2016).

Good roads are essential for a community to benefit from jobs and surplus crop output. In general, rural roads are tools for reducing poverty (World Bank, 2016). Raising the standard of living in rural areas depends on roads. Additionally, roads lower transportation costs, stimulate market activity, and support the growth of economic ties.

Through increased access to necessary inputs, decreased input costs, and the expansion of rural businesses, improved roads boost both agricultural and nonagricultural production. This demonstrates that when rural roads are repaired, the range of successful trade expands, raising rural income and lowering prices in the process.

Like many other African nations, agriculture plays a significant role in the development of rural areas and is the primary source of income for the rural population in rural Nigeria. The majority of rural households in Nigeria (and elsewhere in Africa) are engaged in

farming, and this generates a significant portion of their income (Kakwagh, 2018). The infrastructure of rural transportation is necessary for the promotion of these income-generating opportunities. However, because these items can't be carried constantly and because the expenses are so high when they are, rural transportation routes are in bad condition. It is because of this that poverty is more prevalent in rural areas.

Because of the skyrocketing prices of basic consumables, there has been an increase in population in Benue State and throughout Nigeria. This makes transportation a vital component of rural area growth and production, particularly in regard to agriculture. Transportation is one of the key factors in increasing agricultural output and decreasing postharvest losses (Dorothy & Otu, 2012). However, due to the generally poor condition of the rural roads, people find it difficult to travel in most rural areas of Benue State. In some of these rural places, travel is quite challenging. Most of the roads deteriorate and become inaccessible, especially during the rainy season, subjecting the populace to poor levels of connectivity. This study looks at the effects of roads on rural development in the two local government districts of Benue State—Otukpo and Agatu.

Objectives of the study

The general objective of this study is to determine the impact of rural roads on the socioeconomic development of Otukpo and Agatu government areas of Benue state. However, specific objectives include:

- 1. To determine whether the people in rural areas of Otukpo and Agatu LGA have access to good roads
- 2. To examine the impact of rural roads on the socioeconomic development of Otukpo and Agatu LGA

Research questions

This study is guided by the following research questions:

- 1. Do people in rural areas of Otukpo and Agatu Local Government Areas have access to good roads?
- 2. What is the impact of rural roads on the socioeconomic development of Otukpo and Agatu LGAs?

Literature review

The study hinged on the timegeography theory, which was developed in 1970 but whose roots can be traced to the 1953 doctoral research of Torsten Hagerstand (Pred. 1979). His research investigated migration in Sweden and emigration to the United States from Asby, a small parish in the southeast of Sweden, in the 19th century. Hagerstand's study focused on the movement of people between dwellings in Asby and their use of local resources, and it considered the spread of technological innovations in the parish. Hagerstand's research laid the foundation for further studies on migration, migration chains, and time geography. The idea of time geography originated from a seminal address on the research conducted by Hagerstand at the Regional Science Association (Neutens, et al., 2011).

"Rural" has different meanings to different people depending on where they come from. What is considered rural developing countries can considered urbanised in the world's developed nations. However, under specific considerations, such as in Nigeria, rural settlements are considered a place harbouring 20,000 dwellers, and such dwellers engage in primitive production activities (Aderamo & Magaji, 2014). Nonurban environments have been defined as regions with a low population density, usually less than 1 person per acre (Burley, 1964).

The concept of rural development in Nigeria lacks definition. consistent different scholars tend to view it from different perspectives. Some scholars view rural development in terms of education and training (Anger, 2010). Rural development involves creating and expanding opportunities for rural people to reach their full potential through education and to participate in decisions and actions that affect their lives (Grimes, 2002). The author looks at efforts to increase rural production, create employment opportunities, and eradicate basic or extreme poverty, disease, and ignorance.

Road development in rural areas contributes to infrastructure development, which has been shown to reduce rural poverty (Stifel, Minten, & Koro, 2012). Adarkwa (2015) noted that rural road transport investment in Ghana reduced poverty. In the same vein, a comparative study conducted in China concluded that, when compared to motorways, feeder roads and other roads connecting rural areas made a great contribution development to poverty reduction (Fan & Chan-Kang, 2015). Mohapatra & Giri, (2022) in India discovered that investment in rural road construction has reduced rural poverty to a significant extent compared to investment in agricultural research, development, and education. All these studies appear to equate rural poverty reduction with improved rural roads, but they neglect other important factors such as the availability and affordability of transport services.

Empirical Review

Adedeji, Olafia, Omole, Olamibi, and Yusuf (2014) carried out a study on the impact of road transport on rural development with a focus on the Obokun local government area of Osun State. The study of the data showed that there were inequalities in the area's provision and infrastructure road restoration, which led to differences in the level of growth. Since agriculture is the main source of income for the locals and is negatively impacted by the area's poor road conditions, the poverty rate rises.

In Kwara State, Nigeria, Abdulkadir (2014) investigated the state of rural transportation. The study looks

at the state of road transportation in rural Kwara State, Nigeria. The state's rural areas were determined to have generally weak and insufficient road network connections, levels of road accessibility. and transportation services. However, it was discovered that the areas had spatial variances. Among the studied LGAs, Kaiama LGA was determined to have the lowest level of road accessibility, the least connection in the road network, and the worst transport services. This demonstrates that there was a higher level of mobility limitation, which had a detrimental impact on the local population's economic and general well-being. Poor surface conditions. transportation costs, overloading, and a constant stream of highway robberies are among the transportation issues faced by the region's rural residents.

Siyan & Adegoriola (2017) looks at the connection between Nigeria's economic growth and investments in road networks. Solow's theory of economic growth and Frischmann's theory of transportation infrastructure served as the study's theoretical compass. According to the research, funding for road networks encourages economic growth and raises Nigerians' standards of living. The availability of transportation infrastructure, such as roads, railways, airports, and waterways, facilitates the movement of people and goods. is essential which industrialization.

In their 2017 study, Adedeji, et al., (2014) focused on Nigeria's Gombe State and Kwami local government areas to analyse the effects of road travel on rural development. In Nigeria, the development of rural infrastructure and transportation is a pressing issue that many see as essential to the nation's economic growth.

METHODOLOGY

This research uses the survey method as its research design. The reason for using the survey method is to get responses from the sampled respondents. The study was conducted in both Otukpo and Agatu local government areas of Benue State. While the study population comprises both Otukpo and Agatu local government areas of Benue State, the total population of the two LGAs is 515,600. The target respondents are traders, farmers, youth, and elders who may have lived in these areas for a period of four (4) years. The sample size was determined using the Taro Yamane Scientific Formula. With population of 512,600, the sample size is 400. The random sampling technique was employed in this study. In each of the five LGAs, five rural communities were drawn. Due to the population of the areas, this study is concerned with traders, farmers, students, and others who are mostly affected by bad roads. Data was obtained from both primary and secondary sources. The primary was a questionnaire source interviews. Secondary sources included textbooks. published iournals. unpublished materials. and materials that could not be obtained through primary data. A questionnaire and an interview with structured questions (open and closed-ended questions) were used to collect data in study. The instrument vield reliability coefficient is 0.07, and the data collected was presented in tabular form using frequencies and percentages.

RESULTS AND DISCUSSION

Research question one: Do people in rural areas of Otukpo and Agatu LGA have access to good roads?

Table 1: Do you have access to good road? Variable Frequency Percentage

Strongly agree	40	11.1	
Agree	20	5.5	
Disagree	100	27.5	
Strongly disagree	200	55.7	
Total	360	100%	
Source: Researcher's Surve	y, 2022		

Table 1 revealed respondents' responses on whether they have good roads in their areas. Majority of the respondents represented by 200 (55.7%) strongly disagree that they do not have good roads. Followed by 100 respondents represented by (27.5%) who also agree that they do not have good roads. While

40 respondents represented by (11.1%) strongly agreed that they have good roads and 20 (5.5%) of the respondent said they have good roads. This result showed that majority of the respondents do not have good roads in their areas as represented by 200 (55.5%) of the total population which is the highest response.

Table 2: Rural roads in Otukpo and Agatu LGAs has one lane

Variable	Frequency	Percentage	
Strongly agree	190	52.7	
Agree	100	27.7	
Disagree	30	8.3	
Strongly disagree	40	11.1	
Total	360	100%	

Source: Researcher's Survey, 2022

Table 2: shows respondents' response on whether rural roads in Otukpo and Agatu LGAs has onelane. Majority of the respondents 190 represented by (52.7%) strongly agree that rural roads in Otukpo and Agatu have only one lane,

followed (27.7%) of respondents with a total of 100 who also agree. While 40 (11.1%) of the respondents strongly disagree and 30 (8.3%) disagree too. This result shows that rural roads in these areas have just one lane.

Table 3: Does inaccessible roads in rural areas decline their socio-economic development?

Variable	Frequency	Percentage	
Strongly agree	195	F4.1	
Agree	120	54.1	
Disagree	18	33.3	
Strongly disagree	27	5	
Total	360	7.5	
Total	300	100%	

Source: Researcher's Survey, 2022

Table 3 shows respondents' perspectives on whether inaccessible roads in rural hinder socioeconomic development. The majority of the 195 respondents, or 54.1%, strongly agree that inaccessible roads in rural areas decline their socio-economic development followed by respondents, representing 33.3% of the total population, who also agree. While 18 (5%) of the respondents disagree and 27 (7.5%) of the respondents strongly disagree, this implies that rural areas are faced with the challenge of inaccessible roads, which affect their socio-economic development.

DISCUSSION OF FINDINGS

Objective one was to determine whether the people in rural areas of Otukpo and Agatu LGA have access to good roads. As shown in Table 1, the majority of the respondents represented by 200 (55.7%) strongly disagree that they do not have good roads. followed by 100 respondents, represented by 27.57%, who also agree that they do not have good roads. This result showed that the majority of rural dwellers do not have good roads in their areas, which affects development.

As shown in Table 2, the majority of the 190 respondents (52.7%) strongly agree that rural roads in Otukpo and Agatu have only one lane, followed by 27.7% of respondents with a total of 100

who also agree. This result shows that rural roads in these areas have just one lane. According to Table 4.8, the majority of the 235 respondents (65.2%) strongly agree that rural roads are unreliable during the rainy season. followed by 105 respondents (29.1%) who also agree that during the rainy season, rural roads are not reliable. This result implies that during the rainy season rural roads are not reliable, thereby making movement in some areas inaccessible, which affects traders, farmers, and other activities. This finding is in line with Akinyosoye (2014), who asserted that most of the poor people in the world live in rural areas where the level of public infrastructure, especially roads, seems low and unconcerning.

Objective two was to examine the of rural roads on the socioeconomic development of Otukpo and Agatu LGAs. According to Table 2, the majority of the 195 respondents (54.1%) strongly agree that inaccessible roads in rural areas harm socioeconomic development. This implies that rural areas are faced with the challenge of inaccessible roads, which affect their socio-economic development.

CONCLUSION AND RECOMMENDATIONS

Rural development is the provision of basic services, infrastructure, improved agricultural productivity, extension services, and job

for rural residents. The creation provision of infrastructure as an approach to rural development is one of the techniques most commonly used by the developing countries of the world. The rural development infrastructure proposal can be physical, social, or institutional. And it was recommended that proper roadways be built by the government in collaboration with a private organisation to improve the lives of rural residents in the two local government areas and to improve rural development in the area. By doing this, the majority of farmers, especially the young ones, will continue to live in rural areas and work on their farms, improving food security while lowering crime and rural-urban migration. The region's expensive and sporadic transportation services should be scaled back.

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