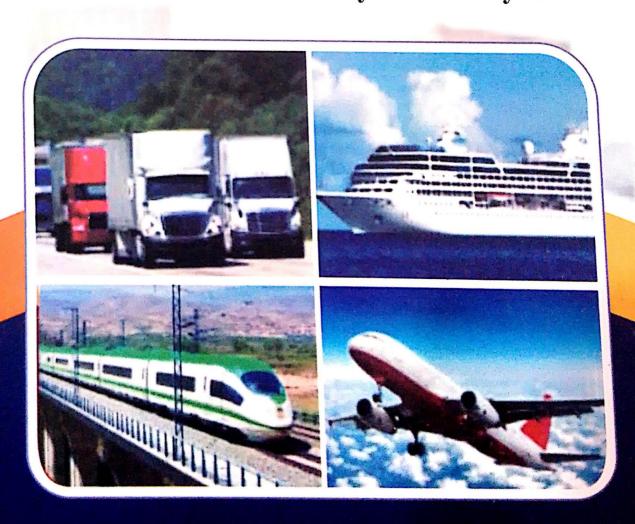
A Festschrift in Honour of
Professor Adebambo Olayinka Somuyiwa



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A Festschrift in Honour of Professor Adebambo Olayinka Somuyiwa

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### Chapter 15

INFLUX OF TRADERS AND CHALLENGES OF CONGESTION: AN APPRAISAL OF PARKING FACILITY WITHIN ABUBAKAR RIMI MARKET, KANO STATE.

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### 1. Introduction

Market is an essential chain of commodity distribution that is extremely important for people's economic well-being and strengthens a town's economic foundation (Balogun, 2011; Omole, 2010). According to Sani and Sulaiman (2011), when it comes to business activity, Kano state is ranked second only to Lagos. Over time, large, medium, and small-scale commercial operations have expanded dramatically throughout the state. Sales and distribution of products created locally and abroad, such as electronics, automobiles, building supplies, cosmetics, chemicals, and medicines, are included in the commercial operations. The main market in Kano, the Muhammed Abubakar Rimi market, also known as the Sabon-Gari market is where the sale of general commodities, confectionery, textiles, electronics, vegetables, stationary, and other foodstuffs are sold (Sani and Sulaiman, 2011). Kano state, which was established in July 1967 as a result of the dissolution of the Northern area, continues to benefit from its advantageous location as a trade hub with various African nations and the Arab world Notwithstanding the expansion of states like Jigawa State in 1991, which altered the administrative framework as well as the size of Kano State, the state continues to reap the benefits of its ideal position. In the renowned Kumi, Kwari, and Muhammad Abubakar Rimi (Yankura, Sabongari) markets where manufacturing completed items are However, because markets don't have enough parking spaces for their customers, cars end up parked on the side of the road, which causes congestion on the road

Because there are so many people who own cars and there aren't enough parking places, parking is a significant part of transportation that might cause congestion. As a result, drivers waste time looking for parking places, a parking regulations affect the functioning of the highways and in the business areas. Also, consumer responses to the economy of shopping centers and specific businesses (Parmar, et. al., 2020). The majority of people use parking facilities every day as a kind of community development. Abejegah et. al. (2013), observed that large

rations: the large influxes of traders generate to Rimi market does not only serve the population of Kano metropolitan but also serves neighbouring other countries; the large influxes of traders generate large traffic in and out of the Alice and other congestion in the market. The market has Rimi market spine influxes of traders generate large traffic in and out of the Abubakar Rimi trading to traffic congestion in the market. The market has outgrown its initial capacity and traffic congestion in the market. other counter and other counte Med appears to have become distorted.

present, its mediappears to me area as large population of discolar their wares on the roads; truck pushers compete with motorists in the market population of per display their wares on the roads; truck pushers compete with motorists in the market and; a large presence display display and display an podestrian in Abubakar Rimi market as such there may occasionally be avoidable loss of life and property due to with market and its surroundings during emergencies. The four access roads instructions of the market have been used up to erect make-shift shops and stopping points have led to indiscriminate and stressing of inadequate available parking space. As a result, there aren't enough parking spots railable at the Abubakar Rimi market. Either that, parking spaces are not provided, or the ones that are offered are mailable. Therefore, it's necessary to appraise the existing parking facility in Abubakar Rimi Market with a ficus on congestion challenges.

### 12 Objectives

The study seeks to appraise parking facilities within Abubakar Rimi Market in Kano. Specifically, this study air

- Examine the existing parking space for vehicles in relation to the efficient operation of activitie Abubakar Rimi market.
- ii. Investigate the relationship between parking space and the safety of lives and properties in Abul Rimi market.
- Assess the relationship between parking space and customers patronising Abubakar Rimi market.

### 13 Research Hypothesis

H<sub>n</sub>: There is no significant relationship between good parking space and efficient operation of activ Abubakar Rimi market.

H<sub>e</sub>: There is no significant relationship between good parking space and the safety of lives and proj Abubakar Rimi market.

### 1.4 The Study Area

Kano State was established on May 27, 1967, and it is situated in Nigeria's north-west. The boundaries with Kaduna State in the south-west, Bauchi State in the east, Jigawa State in the north, State in the northwest. Kano, the state capital, is the metropolitan region of the state. Jigawa State with the northwest. of the State before General Ibrahim Badamasi Babangida, the then-military president, separated in whan meritary president, separated in the state before General Ibrahim Badamasi Babangida, the then-military president, separated in the state before General Ibrahim Badamasi Babangida, the then-military president, separated in the state before General Ibrahim Badamasi Babangida, the state before Badamasi Badamas urban region has the second-largest population in Nigeria, after Lagos, with a population of 9,38 followed L followed by Lagos with 9,113,605 people. Its land area is 20,131 km2 (7,772.6 sq. miles), making populous at the second-largest populous and Nasarawa are populous state in Nigeria. Kano Municipal, Fagge, Dala, Gwale, Taruni, and Nasarawa are

Government Areas (LGAs) that make up the 137 square kilometers -large Kano Urban area. According to a Nigerian census, these LGAs had a combined population of 2,163,225. The Metropolitan Area has eight including the six previously listed plus Ungogo and Kumbutso, and it is 499 square kilometers in size. According to the 2006 Nigerian census, it has 2,828,861 residents.

The Hausa ethnic group makes up the majority of the city's population. Although Hausa is commonly Kano, the official language of Kano State is English, much as in the rest of Northern Nigeria. In the past, has been a prosperous commercial and agricultural state well-known for its significant mineral reserves the production of groundnuts. This state is the most heavily irrigated in the nation and contains more than its square kilometers (7,214 square meters) of land that may be used for agriculture. Regarding Nigeria's the states for commercial activity, Kano is unarguably one. All across the city, foreign investments and investigates for commercial activity, Kano is unarguably one. Due to its large population, Kano has a lot of expension of the markets, parking lots, and other commercial activities that go on during the daytime. The majority of the markets, parking lots, and other commercial local along major routes make up the center regions where these activities are focused.

### 2. Literature Review

Vehicles in motion must completely stop and look for parking spaces since parking lots are a part of transportation system that helps to pause the cars. The majority of public areas, notably marketplaces separate parking spots. Along with parking at a specific facility or place, parking on public streets is an option. Without increasing its capacity, this type of parking makes use of the already available road space. Hawarneh, et. al., 2019). This type of parking lot is frequently seen, especially in densely populated residence in his parking office areas, trade centers, and ports, where it allows drivers to park close to destination and is convenient to operate (Wei, et. al., 2017). The capacity of the traffic lane that the care through is decreased while parking on the road, and the road body also becomes damaged (Bock et. al., When analyzing parking problems, parking features are crucial variables to consider. Therefore, it is considered and employed as a crucial design factor for the finest parking facility ideas (Scheiner et. al. 2020).

The number of parking accessible is one of the most important deciding variables in parking facilities. Dependent on the kind of vehicle, there is a limit on how many cars can fit in a given parking area. Parking accumulations term used to describe the total number of cars that are ever present in a parking lot. Sometimes, to compute accumulation, the number of cars entering the parking lot is added to the number of vehicles leaving an influenced by parking capacity. The parking volume is used to describe the overall number of parking facilities. Calculating the parking turnover rate requires dividing the total number of vehicles at any one time by the total number of parking spaces (Shaaban & Adalbi 2021). The number of vehicles on the certain time period is added together to get the utilisation rate, which is then divided by the number of vehicles parked at the site. The parking demand is forecasted using this capability. A comparison benefits of parking spots available and the total number of vehicles looking for parking yields the manual parking required. Therefore, in order to develop parking facilities, plan ahead, and build parking the parking the parking facilities, plan ahead, and build parking the parking the parking facilities, plan ahead, and build parking the parking the parking facilities, plan ahead, and build parking the parking the parking facilities, plan ahead, and build parking the parking the parking facilities, plan ahead, and build parking the parking the parking facilities, plan ahead, and build parking the parking the parking the parking the parking facilities, plan ahead, and build parking the par

Aritenang & Chandramidi, 2020).

planed their worry about a market's access system and general circulation pattern, namely that the plo (2011) stated would be planned to separate the produce coming in from that leaving, a practice known as simulation. In order to prevent on-street parking within the market and proposed the company of the company enters road layout a practice known as the street parking within the market and promote the free flow of traffic for and vehicular movement, markets, especially those of merchants, should offer the street parking within the market and promote the free flow of traffic for and vehicular movement, markets, especially those of merchants, should offer the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the market and promote the free flow of traffic for the street parking within the str sillers and vehicular movement, markets, especially those of merchants, should offer enough parking spots of the fortrucks, pick-ups, and private automobiles. A significant aspect of product of the sillers and private automobiles. siblesize for trucks, pick-ups, and private automobiles. A significant aspect of parking facilities in markets has ginble size to parking facilities in markets has adequately addressed, hence, this study seeks to appraise the parking facilities in Abubakar Rimi narkets.

The research employed a quantitative design. Data used for the study were obtained through primary source. 3. Methodology Pimary data was obtained through questionnaires administered to the customers and traders at the market. A dralified random selection procedure for distributing the questionnaires was used. During the survey, a total of [180] structured questionnaires were administered to both customers and traders in the Abubakar Rimi market. Chi-Square was employed to test the hypothesis after descriptive and inferential statistics, including abulations, frequency counts, and percentages, were used to assess the data collected.

### **Results and Presentation**

Table 1: Buyer or Seller

Table 1: Buyer or Seller	7	Percent (%)
Respondents	Frequency	
2004	123	68.3
Buyer		31.7
Seller	57	100.0
Total	180	

Table I reveals the total number of buyers and sellers sampled at Abubakar Rimi Market. The buyers constitute 68.3% while 31.7% constitute the sellers. These are people who come from various parts of the Kano Metropolitan Area and other neighbouring states and countries.

Table 2: Means of Transportation to the Market

Table 2: Means of Transportation to the Mar	ket	ercent (%)
Means	Frequency	27.2
Private car	49	67.2
Tricycle	121	5.6
Private Motorcycle	10	0
Others	0	100.0
Total	180	

### Contemporary Issues in Logistics and Transport Management in Africa Space to the Number of Vehicles Parked

Table 6: Ratio of the Parking Space	Frequency	P
Response	0	Percent
Very high	0	0
High	0	0
Moderate	58	0
Low	122	23
Very low	180	67.8
Total		100.0

Source: Authors Field Survey, 2022

Table 6 above showed respondent's perception to the ratio of the parking space to the number of vehicles the parking area is low while 67.8% were of the contract that the contract the contract that the cont Table 6 above showed respondents attested that the parking area is low while 67.8% were of the view that a second of the v 32.2% of the respondents acceptable outweigh the available parking facilities in the market has Abubakar Rimi market is a regional market that generates high pedestrian traffic as people patrons market daily runs into hundreds of thousands.

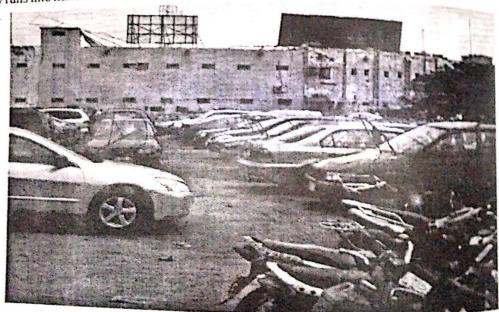


Fig. 3: Ratio of vehicles parked to the available parking facility. Table 7: Impact of Poor/Indiscriminate Parking on Daily Operation of the Market

Y	Tarking on Daily Operatio	n of the Market
Impact Very high	Frequency	Percent!
High	60	33.3
Moderate	120	66.7
Low	0	
Very Low	0	1
Total	0	1000
Source: Authors Fig. 15	180	1000

ors Field Survey, 2022

Africa The impact of poor/indiscriminate parking on the daily operation of the market. From the above shows the impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by the impact is very high and highly attested by the impact is very high and highly attested by the impact is very high and highly attested by the impact is very high and highly attested by the impact is very high and highly attested by the impact is very high and highly attested by the impact is very high and highly attested by 33.3% and 66.7% respectively. The impact of position and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by 33.3% and 66.7% respectively. The impact is very high and highly attested by attested by the market as people compatible that the impact is very high and highly attested by attested by the respondents affects the operations of the market as people compatible to the parking as attested by the respondents affects the operations of the market as people compatible to the parking as attested by the respondents affects the operations of the market as people compatible to the parking as attested by the respondents affects the operations of the market as people compatible to the parking as attested by the respondents affects the operations of the market as people compatible to the parking as attested by the respondents affects the operations of the market as people compatible to the parking as attested by the respondents affects the operations of the market as people compatible to the parking as attested by the respondents affects the operations of the market as people compatible to the parking as attested by the respondents affects the operation of the market as people compatible to the parking as attested by the respondent attention of the market areas. The implication is that the efficiency of the market as people cannot the market areas. The implication is that the efficiency of the market is thereby reduction in the market areas. The implication is that the efficiency of the market is thereby reduction in the market areas. The implication is that the efficiency of the market is thereby reduction in the market areas. if revening as account and poor and the implication is that the efficiency of the market is thereby reduced parking within the market areas. The implication is that the efficiency of the market is thereby reduced parking within the market areas. The implication is that the efficiency of the market is thereby reduced parking within the market areas. The implication is that the efficiency of the market is thereby reduced parking within the market areas. The implication is that the efficiency of the market is thereby reduced parking within the market areas. The implication is that the efficiency of the market is thereby reduced are sufficiently within the market areas.

Percent (%)  33.3  32.2
22.2
32.2
34.4
0
0
100.0

Table 8 above shows the impact of poor/indiscriminate parking on the safety of lives and properties. It was attested by 33.3% and 32.2% that the impact of poor/indiscriminate parking on the safety of lives and properties is very high and high respectively. The implication of this is that the market is thereby prone to high levels of accident

Table 9: Motorists would pay if there is provision for a pay-per-hour parking facility

rence.	
Percent (%	0)
9: Motorists would pay if there is provision for a pay-per-nour Percent (%) Frequency 53.9	
Response 97 46.1	
Yes 83 100	
No 180	
Total Total to affirmed that moto	orists would b

From Table 9 above, 53.9% constituting the majority of the respondents affirmed that motorists would be willing not to to pay if there is provision for a pay-per-hour parking provision in the market while 46.1% affirmed willing not to pay. This is perhaps because pay-per-hour parking is already operational in Kano Metropolis. This will assist

to p	pay It there is provided an archour parking	
pay	by. This is perhaps because pay-per-hour parking in the market.	ricles Percent (%)
dec	pay. This is perhaps because pay-per-nour parking in the market.  decision-makers in making plans for parking in the market parking of vehicles for poor/indiscriminate parking of vehicles for poor/i	ency 24.4
Tal	Day. This is perhaps because pay-per-nour per	31.7
	Factors	7 11.7
	Lack of parking space	

e 10: Factors responsible for poor/indiscr	1 1 24.1 24.1 31.7	
Factors	57 11.7	
Lack of parking space	21 29.4	
Overcrowding in the market	53 2.8	
Infiltration of the streets by retailers	5 100	
High pedestrian movement	180	and to the
Poor organization of the market	- 1	2024
Total	January 25	, 20

Contemporary Issues in Logistics and Transport Management in Africa Contemporery

A number of factors were discovered to be responsible for the poor/indiscriminate parking halds in the market results in prop/indiscriminate of parking halds in movement, 24.4% affirmed to lack of parking and A number of factors were discovered to be responsible for the policy in the market results in processing Talde In a series while 2.11% after while 2.11% after the poor organization case. A number or necessary at the majority attested that overerowong in the market results in proof of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization of the market streets by retailers while 2.8% attested to the poor organization organization organization organ 29,4% affirmed the high pedestrian movement, 29,4% affirmed the hi

Hypothesis Testing

Hot There is no significant relationship between good parking space and efficient operation of the space and parking s

Abubakar Rími market.

Table 11: Chi Square on Relationship between Good Parking Space and Efficient Operallon.

and the same of th	Value	17 c
Pearson Chi-Square	3.261(a)	
Likelihood Ratio	2.723	2 Asymp. Sig. (
Linear-by-Linear	21/62	2 .019
Association	.800	.025
Number of Valid Cases	are one of the same of the sam	.037
All and the second seco	180	

### Source: Authors Field Work, 2022.

The Chi-square analysis in Table 11 above reveals a significant value of 0.019 which is less than 0.05 for hence, the alternative hypothesis (H<sub>i</sub>) is accepted as evidence that there is a statistically significant telescope. between good parking space and efficient operation activities in the market are related statistics

 $H_{
m so}$ : There is no significant relationship between good parking space and the safety of lives and page.

Table 12: Chi-Square on Relationship between Good Parking Space and Safety of Lives and Proper the Market

Pearson Chi-Square	Value	df	Asymp. Sig. (2-16
Likelihood Ratio	39.066ª	16	,001
Linear-by-Linear	44.047	16	,000
Association	.001		912
Number of Valid Cases		the many and on the state of th	the state of the s

Source: Authors Field Work, 2022.

which is lesser than the p-value (0.05). Hence, the hypothesis (H1), which states that there is a statistically significant correlation between a quality hypothesis (H0) is CH. A.

## 3 Conclusion and Recommendations

Industrial for parking facilities will continue to grow as cities and economic activities grow especially in major The such as the Abubakar Rimi Market. The traffic congestion being experienced daily in the market as market as a means to make trips of traders in the market as the market as the market as the market as a means to make trips Due to the high influx of traders in the market, all the access roads (to the North by France road, South by Bata Yankura access, East by Igbo road, and West by Kuroda access) linked to the Market are congested pedestrian traffic making it difficult for the available few parking facilities to be utilized by vehicles, hence, the gradual disappearance of designated parking facilities within the market.

The lack of proper parking facilities in the market has resulted in poor/indiscriminate parking of vehicles around the market. In addition, some factors contributing to poor/indiscriminate parking of vehicles range from mercrowding/high pedestrian movement in the market, inadequate provision of parking space, infiltration of the maket streets by retailers as well as the poor organization of the market. The implication of this porfindiscriminate parking of the vehicle is that it affects the efficiency of the market and also makes the market prone to a high level of accident occurrence thereby endangering the safety of lives and properties.

To improve the parking facility and reduce congestion in the area under study, the following are recommended;

- The parking facility should be redesigned and it must be ensured that the carrying capacity can accommodate the present and future inflow of traders and vehicles.
- The introduction of pay-per-hour parking facilities to reduce indiscriminate parking of vehicles as well as 2
- On-street parking should be eradicated by imposing some stringent measures such as exorbitant fines by

Loading and unloading of goods should be strictly performed after daily market activities to avoid hindrance of traffic flow due: of traffic flow during the normal operation hours of the market.

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