

# 1 Assessment of the Impact of Land use Planning on Property 2 Values in Lagos State, Nigeria

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## 6 **Abstract**

7 This study examined the effects of land use planning on property values in Lagos. The target  
8 populations for the study were the practicing Estate Surveying and Valuation firms in Lagos.  
9 Structured questionnaires were administered to the respondents and the results were analysed  
10 using descriptive statistics, weighted mean score, Trend Analysis, ANOVA, Ttest and  
11 regression analysis. The study revealed that the major land use planning and policy tools  
12 used and implemented in Lagos are building permit/ approval, zoning, land use charge, town  
13 ordinances and building codes.

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15 **Index terms—**

## 16 **1 Introduction**

17 rom the planning point of view, land represents a surface decoration realised to ensure an act in accordance to  
18 the built-environment. Ajibola, Olaniyan-Adekola and Simon (2011) also noted that the purpose of land use  
19 planning in urban centres is to enable events in urban areas to be well organized and developed in any open  
20 space, having put into consideration the protection of people, this which also include environmental quality,  
21 social quality amongst others. However, Hardoy and Satlerwaite ??1989) and ??ernstein (1994) has made it  
22 known from their study that the deficiencies in developing country's land use plan and policies and inadequate  
23 land management policies amongst others have been identified as major issues revolving around existing uses in  
24 land in some countries.

25 Lack of appropriate tools and weak structures have also been noticed as some of the problems plaguing  
26 communities. Aribigbola (2008) further opined that striking urban land control and management most especially  
27 in areas where there is growing land problem such as urban sprawl in Nigeria; is significant in dealing with  
28 problems such as slum formation, hike in the land price, congestion and others for the purpose achieving a  
29 sustainable city development.

30 Having critically examined the various cities in Nigeria, it has been revealed that there are plethora of problems  
31 associated with land and this cut across land use, allocation, land tenure and ownership. Also problems such as  
32 housing, urban sprawl, lack of adequate facilities and infrastructure, lack of accessibility, etc. are issues associated  
33 with metropolitan areas/ mega cities. Non-compliance of planning standards has also increased the potentials for  
34 environmental degradation within our environs and this has resulted to urban problems such as squalors, slum  
35 and sprawls as seen in major cities in Nigeria especially Lagos. It is therefore imperative to scrutinize the effect  
36 of land use planning on property values in order to determine the impacts that adherence to land use planning  
37 has revealed on residential property values (rental) values in Lagos metropolis and recommend improvement as  
38 necessary.

## 39 **2 II.**

## 40 **3 Literature Review a) Concept of land use Planning**

41 The general idea of planning can be linked to the creation as it always said that God (himself) was the first  
42 planner and the originator. God planned land and created the earth in six days. It was obvious that planning  
43 process was adopted in the concept of zoning land and its use, separation from water, birds, air and animals.

## 6 STUDY AREA

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44 The creation of the world is an example of zoning and planning concepts. Cheshire and Sheppard (2001) noted  
45 that land use planning acts in various purposes, control of the spatial structure of residential development can  
46 reduce the cost of providing some local public goods and serve to isolate land uses which are likely to generate  
47 costly external effects; regulation of building types; regulation of land use can be a method of providing valued  
48 public goods and amenities such as planned neighbourhood and open space respectively. They further stated that  
49 Land use planning produces a variety of local amenities and regulates industrial land use and separates it from  
50 residential land use. Oyesiku (2009) believed that the practice of planning in Nigeria is not forming a spatially  
51 sustainable new cities, due to the fact that planning is similar to a preventive medicine, whereas the professional  
52 planners in Nigeria have been focusing on curative medicine. Owei, Obinna and Ede (2010) discussed that land  
53 use planning is a process targeted for the purpose of achieving an orderly physical development to evolve a  
54 functional and habitable environment.

### 55 4 b) Land-Use Control Tools

56 Land use controls are institutional, administrative and/or legal tools put into place by the government to  
57 minimize, control and prevent intended excessive human actions on land and its resources ??ITRC, 2008). The  
58 implementation of controls are usually enforced by government which include zoning restrictions, building permits  
59 and other provisions of restrictions on land use.

60 Zoning: Zoning is a well-understood policy and is applicable to our urban space dimension to eradicate land  
61 use conflicts such as the reduction in the environmental issues such as pollution and noise. Zoning is a major tool  
62 of country and town planning in our cities and suburban centres to curb urban sprawl and enhance a liveable  
63 environment. It has been the practice of the local government to use zoning in urban regulation. ??ischel (1985)  
64 defines zoning as "the separation of a community into districts or zones with restrictions in certain land-use  
65 activities while others are allowed. In recent times, there have been zoning codes that have covered many other  
66 restrictions. These codes include setting limits on building size, maximum height, lot size, etc. It has also been  
67 used to limit the size of off street parking space and size of trees. Zoning is classified into minimum lot-size,  
68 maximum lot-size and building height limitation.

### 69 5 c) Effect of Land Use Planning and Control on Property

70 Value Jaeger (2006) from his study, opined that one of the impact of planning system on land is that it can  
71 have an intent impact on the land values. He further explained that a piece of property can worth more than  
72 before after the grant of a planning permit. It has been assumed that land use reduces property value, whereas  
73 in the actual fact it has positive effect on it. Oni (2008), Oni (2010), and Oni and Ajayi (2011) recommended  
74 that government should review laws as regards government intervention in the property market through taxation.  
75 They suggested that an appropriate equitable tax should be enacted to ensure a sustainable housing delivery in  
76 other to realise the goal vision 20:2020in determining the effects of government intervention in property market  
77 through the imposition of property tax on sustainable housing delivery found that government intervention  
78 through the imposition of statutory formula for determining the amount payable by property owners as land  
79 use charge was inappropriate and that high tax and penalties would discourage investment in new housing and  
80 maintenance of existing stock. It recommended a review of the law and suggested an appropriate basis of fair  
81 and equitable tax to ensure sustainable housing delivery and the realization of the goal of Vision 20:2020, which  
82 was in place to make Nigeria become one of the twenty most advanced countries by year 2020.

83 Adebayo and Patunola-Ajayi (2017) they also observed that economist recognized three potential effects of land  
84 use regulations on land values, these are; restriction effects, amenity effects, and scarcity effects. a. Restriction  
85 effects: this has effect on the "highest and best use" of land which in turn will affect the property value. If  
86 par venture the prohibited use will not affect the highest and best use of a piece of land. The regulation will  
87 have no effect, but it does, it will bring down the value of the property. b. Amenity effects: It has many effects  
88 mostly positive and this serves as the bases for the introduction of a land-use regulation. Land use regulation  
89 are formulated to enhance the livability of a neighbourhood by eliminating conflicting land uses.

90 Rules and orders that protect infrastructure (including open spaces) also have similar positive effects. The  
91 quality of any surrounding land, has a positive effect on the value of properties. (Adebayo and Patunola-Ajayi,  
92 2017). c. Scarcity effects: when there is a change in the supply of land use as a result of land use regulation,  
93 then there will be scarcity effect. If there is a law that restrict the use of land for example, "A" there would be  
94 a decrease in the supply of "A" and if the law allows the use of land B, there will be increase in the supply of "  
95 B", likewise property that has exception or waiver will also enjoy the benefits B has.

96 III.

## 97 6 Study Area

98 Lagos state can be referred to as one of the populous cities in the world with a population of about 15million.  
99 Lagos state is referred to as the commercial nerves of the country, having sea and airports. Over 45% of skilled  
100 workers resides in the state. It is located at a latitude 6°34'60"N, 3°19'59"E along the West African coast.  
101 It was the capital of the country before and now it has been replaced with Abuja on the 12 th of Dec., 1991.

102 Republic of Benin borders it on the western side, the Atlantic Ocean form the southern boundary, and it borders  
103 Ogun state on its North and Eastern boundaries. ??Balogun et al, 1999).

104 Lagos state is the smallest state in Nigeria with highest population over 5% of the National estimate with V.  
105 Various impacts of land use planning policies and tools on property values as evidenced in various literatures and  
106 physical review of the land use planning and policies were assessed and presented in table 4. From the table, the  
107 research revealed that the basic effect of land use planning and policies on property values include: significant  
108 impact on land values (4.5032); land use policies ensure planned and controlled developments (4.4904); protect,  
109 enhance, or create amenities or services that benefit property owners (4.3248); It also ensures environmental  
110 sustainability (4.0127) and population explosion and paucity of resources (3.8280) which have been ranked 1 st  
111 , 2 nd , 3 rd , 4 th and 5 th respectively. The least considered were ensures adequate cadastral surveys and  
112 detailed land information system (2.4904) and Ensures adequate cadastral surveys and detailed land information  
113 system (2.4777) which were ranked 14 th and 15 th respectively. The table above revealed the group statistics  
114 and mean rental of residential properties in Ikoyi and Agege axis based on the nature of planning i.e planned  
115 and unplanned areas. The mean rental value of a mini flat, one bedroom, 2 bedroom, 3 bedroom and duplex  
116 in Ikoyi are #580,000.00; #605,000.00; #995,000; #1,990,000 and #3,350,000.00 respectively. Conversely, the  
117 mean rental value of a mini flat, one bedroom, 2 bedroom, 3 bedroom and duplex in Agege are #75,500.00;  
118 #85,000.00; #119,500; #221,000 and #1,050,000.00 respectively.

## 119 **7 Data Analysis and Discussions**

## 120 **8 B**

121 One way ANOVA was conducted to compare the mean rental values of different typology of residential properties  
122 based on the nature of planning as either planned area or unplanned area. Analysis of Variance was further  
123 used to test for any statistical difference in values between the different typologies of residential properties based  
124 on the nature of planning. The results as presented in Table 7 showed that there is a differential statistical  
125 values between the properties based on the nature of planning  $F(1,18) = 342.289$ ,  $P=.000$  for mini flats;  $F(1,18) =$   
126  $384.455$ ,  $P=.000$  for 1 bedroom flat;  $F(1,18) = 389.147$ ,  $P=.000$  for 2 bedroom flats;  $F(1,18) = 43.386$ ,  $P = .000$   
127 for 3 bedroom apartments and  $F(1,18) = 77.775$ ,  $P=.000$  for duplexes. There are therefore statistical differences  
128 in the mean rental values for the different housing typologies in the planned and unplanned areas. The measure  
129 of association and effect size reveals a clue of the size of the difference between the natures of the areas as been  
130 planned and unplanned (not just whether the difference could have occurred by chance). The effect size is large  
131 as revealed in eta squared. The eta squared for difference in values between the properties based on the nature  
132 of land use planning for mini flats is .950 representing 95.0%. This reveals 95.0% of the difference among values  
133 is revealed by nature of planning. One bedroom flat is .955 representing 95.5%. This shows that 95.5% of the  
134 difference in value is discussed by the nature of land use planning. Eta squared for 2 bedroom flats is .956; 3  
135 bedroom flat is .707 while duplex is .812, thus showing a significant contribution of the nature of land use planning  
136 to the changes in values. Table 10 shows that the correlation coefficient "R" (Linear Relationship) is 0.723 while  
137 the coefficient of determination "R<sup>2</sup>" (i.e. the strength or magnitude of the relationship) is 0.522. With R value  
138 of 0.723 and R<sup>2</sup> value of 0.522 it is evident that there is statistically significant relationship between land use  
139 planning and property values. In other words, 52.2% of the variation in the dependent (property values) variable  
140 can be explained by variations in the independent variable land use planning policies and tools.

## 141 **9 Global**

## 142 **10 Conclusion**

143 Land use planning and policy control tools are veritable instrument used by government authorities to design,  
144 guide and regulate land use. The importance of urban land use planning in the world over today cannot  
145 be underestimated with the resulting urban explosion and morphological changes in the country. Nigeria, a  
146 developing and environmentally conscious country is not left out of this dire need for effective land use planning  
147 and control measures. There are many challenges confronting effective implementation and enforcement of land  
148 use planning in Nigeria. Hence, this research amongst other also assesses the effects of land use planning on  
149 property values in Lagos. The study revealed that the major land use planning and policy tools used and  
150 implemented in Lagos are building permit/ approval, zoning, land use charge, town ordinances and building  
151 codes. The study also revealed that inadequate implementation, inadequate monitoring and evaluation; cost of  
152 compliance with planning and development standards, inadequate access to residential land and existing land  
153 use pattern and master plan were the major challenges of land use planning and policies in Lagos. The effects  
154 of land use planning on property values also revealed that land use planning have significant impact on land  
155 values; ensure planned and controlled developments, protect, enhance, or create amenities or services that benefit  
156 property owners; also ensures environmental sustainability and population explosion and paucity of resources.  
157 The study shows that land use planning leads to increased property values. In other words, the study establishes  
158 that there is a statistically significant relationship between land use planning and property values in the study  
159 area through the results of the ANOVA, T-Test, eta squared and the linear regression been conducted in the  
160 course of the research.

### 161 11 VII.

### 162 12 Recommendation

163 The need for adequate implementation and monitoring of land use planning and policies in the society cannot  
164 be over-emphasized. In a bid to ensuring adequate and efficient land use policies and a better sustainable  
165 environment; the following were recommended: i. Implementation and monitoring of land use planning and  
166 policies. ii. Ensure enforcement of land use planning by the society. iii. Cost of enforcement of planning policies  
167 should be reviewed. iv. It is also recommended that Estate Surveyors and Valuers should be carried along in the  
168 town and country planning processes. v. Adequate development standards should be created and enforced. vi.  
169 Existing master plan should be enforced and where necessary be reviewed. vii. There should be provision of the  
170 technical facilities for effective land use planning.

171 viii. The use of computer technology should be adopted and combined with political will to enforce land use  
172 planning and policies. ix. Strengthening auditing of the tax records. x. All government agencies involved in land  
173 use planning and policies should be coordinated for effective and sustainable development. xi. A corrupt-free  
1 and efficient administrative machinery with well trained personnel should be put in place.



Figure 1: GlobalFigure 1 :

		MU	U	UD	UU	MUU	Mean	Std. Dev.	Year 2021 ( ) B Rank
Land Use Planning and Policy Tools									
Building Permit /Approval	147(93.6)	7(4.5)		-	2(1.3)	1(0.6)	4.8917	.50102	1 st
Zoning	131(83.4)	19(12.1)		2(1.3)	3(1.9)	2(1.3)	4.7452	.69710	2 nd
Land Use charge	115(73.2)	18(11.5)		15(9.6)	4(2.5)	5(3.2)	4.4904	.99110	3 rd
Town Ordinances	88(56.1)	49(31.2)		13(8.3)	6(3.8)	1(0.6)	4.3822	.84379	4 th
Building Codes	88(56.1)	27(17.2)	33(21.0)		6(3.8)	3(1.9)	4.2166	1.02731	5 th
Sub-Division Regulations	70(44.6)	37(23.6)	50(31.8)		-	-	4.1274	.86770	6 th
Power of Esheat	98(62.4)	11(7.0)		19(12.1)	24(15.3)	5(3.2)	4.1019	1.28195	7 th
Taxation	93(59.2)	23(14.6)		8(5.1)	25(15.9)	8(5.1)	4.0701	1.32101	8 th
Police power	93(59.2)	20(12.7)		13(8.3)	21(13.4)	10(6.4)	4.0510	1.33875	9 th
Building Height Control	61(38.9)	69(43.9)		5(3.2)	15(9.6)	7(4.5)	4.0318	1.10024	10 th
Contravention	91(58.0)	18(11.5)		4(2.5)	18(11.5)	26(16.6)	3.8280	1.59397	11 th
Easement and wayleaves	32(20.4)	51(32.5)	20(12.7)	39(24.8)		15(9.6)	3.2930	1.30217	12 th
Public Right of way	10(6.4)	63(40.1)	40(25.5)	32(20.4)		12(7.6)	3.1720	1.06926	13 th
Rent Control	12(7.6)	55(35.0)	20(12.7)	62(39.5)		8(5.1)	3.0064	1.12373	14 th
Eminent Domain	27(17.2)	18(11.5)	41(26.1)	55(35.0)	16(10.2)		2.9045	1.24953	15 th

[Note: MU: Mostly Used; U: Used; UD: Undecided; UU: Unused; MUU: Mostly Unused Source: field survey, 2020 Global Journal of Management and Business Research Volume XXI Issue III Version I]

Figure 2: Table 1 :

## 12 RECOMMENDATION

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2

	SA	A	UD	DA	SDA	Mean	Std. Dev	R
Effect of land use planning and policies on residential property values								
Significant impact on land values	105(66.9)	26(16.6)	26(16.6)-	-	4.5032	.76480	1 s	
Land use policies ensure planned and controlled developments	77(49.0)	80(51.0)	-	-	4.4904	.50151	2 n	
protect, enhance, or create amenities or services that benefit property owners.	64(40.8)	80(51.0)	13(8.3)	-	4.3248	.62241	1 3 r	
It also ensures environmental sustainability	53(33.8)	53(33.8)	51(32.5)-	-	4.0127	.81640	4 t	
Population explosion and paucity of resources	38(24.2)	67(42.7)	39(24.8)13(8.3)		3.828	.8928	5 t	
Curbs the nefarious and corrupt practices amongst land officers	40(25.5)	53(33.8)	38(24.2)26(16.6)		3.6815	1.0318	6 t	
Policies ensure planned and controlled developments	26(16.6)	91(58.0)	17(10.8)6(3.8) 17(10.8)	3.6561	1.1363	7 t		
Equitable distribution and accessibility to land	26(16.6)	91(58.0)	17(10.8)6(3.8) 17(10.8)	3.6561	1.1363	7 t		
The equitable distribution and accessibility to land	51(32.5)	26(16.6)	42(26.8)25(15.9)3(8.3)4904		1.3137	9 t		
Ensures adequate cadastral surveys and detailed land information system.	38(24.2)	13(8.3)	68(43.3)38(24.2)		3.3248	1.0932	10 t	
Provides avenue for legal and defensible titles to land	39(24.8)	27(17.2)	13(8.3) 78(49.7)		3.1720	1.2819	11 t	
Effective utilization of land	25(15.9)	52(33.1)	80(51.0)-	-	3.1401	1.2113	12 t	
Increased cases of squatting and unplanned developments	51(32.5)	54(34.4)	52(33.1)-	-	2.6433	1.6909	13 t	
Ensures adequate cadastral surveys and detailed land information system	-	30(19.1)	18(11.5)108(681(0.6)2.4904		.80557	14 t		
Ensures adequate cadastral surveys and detailed land information system	12(7.6)	65(41.4)	54(34.4)26(16.6)		2.4777	1.0227	15 t	

[Note: SA: Strongly Agree; A: Agree; UD: Undecided; DA: Disagree; SDA: Strongly Disagree Source: field survey, 2020]

Figure 3: Table 2 :

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**3**

Planned and Unplanned		Mini Flat	1 Bedroom	2 Bedroom	3 Bedroom	Duplex
Mean	580000.0000	605000.0000	995000.0000	1990000.000	3350000.0000	
N	10	10	10	10	10	10
Std. Dev.	85634.88386	83166.49967	138343.3731	847807.6301	753141.56851	
Ikoyi	Median	575000.0000	600000.0000	1000000.000	1900000.000	3100000.0000
	Sum	5800000.00	6050000.00	9950000.00	19900000.00	33500000.00
	Minimum	450000.00	500000.00	800000.00	900000.00	2500000.00
	Maximum	700000.00	750000.00	1200000.00	3200000.00	4500000.00
	Range	250000.00	250000.00	400000.00	2300000.00	2000000.00
	Mean	75500.0000	85000.0000	119500.0000	221000.0000	1105000.0000
	N	10	10	10	10	10
	Std. Dev.	10124.22837	10801.23450	23623.19952	49988.88765	284263.18009
Agege	Median	77500.0000	82500.0000	120000.0000	225000.0000	1100000.0000
	Sum	755000.00	850000.00	1195000.00	2210000.00	11050000.00
	Minimum	60000.00	70000.00	90000.00	150000.00	750000.00
	Maximum	90000.00	100000.00	150000.00	300000.00	1500000.00
	Range	30000.00	30000.00	60000.00	150000.00	750000.00
	Mean	327750.0000	345000.0000	557250.0000	1105500.0000	2227500.0000
	N	20	20	20	20	20
	Std. Dev.	265520.7148	272927.5978	459391.6887	1079431.990	1277999.56758
Total	Median	270000.0000	300000.0000	475000.0000	600000.0000	2000000.0000
	Sum	6555000.00	6900000.00	11145000.00	22110000.00	44550000.00
	Minimum	60000.00	70000.00	90000.00	150000.00	750000.00
	Maximum	700000.00	750000.00	1200000.00	3200000.00	4500000.00
	Range	640000.00	680000.00	1110000.00	3050000.00	3750000.00

Source: Field Survey, 2020

Figure 4: Table 3 :

**4**

Sum of Squares	df	Mean Square	F	Sig.

Figure 5: Table 4 :

**5**

Eta	Eta Squared

Figure 6: Table 5 :

## 12 RECOMMENDATION

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6

Model	R	R Square	Adjusted Square	R	Std. Error of the Estimate
1	.723	.522	.471		815713.76489

a  
Source: Field Survey, 2020

Figure 7: Table 6 :

7

	Model	Sum of Squares	df	Mean Square	F	Sig.
	Regression	102523936605857.500	15	6834929107057.173	10.272000	b
1	Residual	93819841419620.120	141	665388946238.441		
	Total	196343778025477.720	156			

Source: Field Survey, 2018

Figure 8: Table 7 :

11

shows that the between-group mean square (the variation explained by the model or regression) is 102523936605857.500 (i.e.  $102523936605857.500 \div 1$ ), and the within-group mean square (the variation unexplained or residual) is 665388946238.441 ( $93819841419620.120 \div 141$ ). The P-value < 0.05. VI.

Figure 9: Table 11

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