

Housing finance market and economic growth of west africa region: a study of Nigeria, Ghana and Gambia

Ofor Theresa Nkechi

Alagba Ochuko Samuel

Meshack Shedrack Ifurueze

Department of Accountancy,

Faculty of Management Sciences

ChukwuemekaOdumeguOjukwu University, Nigeria.

Keywords

Housing Finance, Mortgage Loan, and Economic Growth

Abstract

The aim of this study is to investigate the effect of housing finance on economic growth of West African States while the specific objectives were to: analyze the contributions to housing finance by mortgage banks on the economic growth of Nigeria, examine the impact of aggregate housing finance on economic growth of Ghana among others. Secondary data were used, covering the period of 1985-2014 while the ex-post facto research design was adopted. The data gathered were analyzed using Ordinary Least Square Regression Method. The findings revealed that the housing finance markets in Nigeria, Ghana and Gambia are under developed. The contributions to housing finance both Mortgage banks and Commercial banks on economic growth of Nigeria are positive but not statistically significant. On the contrary houses are built through self-help and on incremental basis in Ghana. As a result the economic values of such houses are not included in the National Income Account of the country. Hence the impact of the market on economic growth of Ghana was insignificant at 0.5 percent. In Gambia the market is almost non-existence due to wide spread poverty and high interest lending rate. We recommend that the government of West African States should create an enabling environment so as to attract both local and foreign investors to utilize the opportunities that abound in the housing and housing finance sector. To the best of our knowledge, a study of this nature that cut across Nigeria, Ghana and Gambia in the area of Mortgage financing has not been done and this is the gap our study fill in knowledge.

Introduction

Housing finance market is a formal institutional arrangement whereby individual, corporate entity and Developer obtain mortgage loan for the construction or purchase of a housing unit, shopping centers or Real Estate. The property is used as collateral for the loan applied for. Interest in the market is usually lower than what is obtainable in a conventional financial market and the time period ranges from ten years to thirty years duration.

One of the indices for accessing the level of economic growth of a nation is adequate housing. In a country where the majority of the people live in slum, such a country is classified as under - developed. The role of housing in growth and development is so vital that government all over the world make provisions for adequate housing of her citizens, the West African region inclusive. It has been argued that housing encompasses not only the physical building but include the available utilities and the siren environment, which make life comfortable (Boamah, 2010).

Several studies have revealed that the construction of a house is capital intensive and it represents the highest investment of most households. The consequence of the capital nature of housing is the shortage of affordable housing units throughout the countries of West African. It is estimated that Nigeria has a short fall of 17 million housing units, Ghana 1.7 million CAHF (2013), Gambia 50,000 units CAHF, (2015). A robust housing finance market is needed across the region in

order to meet these shortages of housing units. A dynamic housing finance market will supply the need finance to individuals, corporate entities and developers. Housing is a longtime investment and the financing is usually beyond the reach of not only individuals but corporate entities and developers as well. Only a few proportion of the society can build a house of their choice out of personal income. Okonjor – Iwuala (2014), asserted that housing and housing finance has been a tool for rapid economic growth and development in the developed economies. This is due to its multiplier effects and inters – relationship with other sector of the economy. The building of a single housing unit is capable of providing employment for over 10 people. These include architect, structural engineer, bricklayer, meson electrician, plumber, building material dealers etc.

The huge housing units deficits in West Africa is an indication of the investment potentials in the sector. A proper harnessing of these potentials will place the region on the part of sustainable economic growth. It is in line with these that the general objective of this studies is to determine the effect of housing finance market on growth of West Africa region, while the specific objectives are to: analyze the effect of contributions to housing finance to economic growth of Nigeria by mortgage banks.

- Examine the effect of the contributions to housing finance by commercial banks on economic growth of Nigeria.
- determine the effect of the aggregate housing finance on economic growth of Ghana
- ascertain the effect of the aggregate housing finance on economic growth of Gambia

The novelty of this research could be seen from the following angles:

Firstly, there are few studies on housing finance market in West Africa and secondly, most of these researches are on access to housing finance by small and medium income earners. To the best of our knowledge there is no known study on the impact of housing finance market on economic growth of West Africa region.

1. Review of Related Literature

According to Aigbokhan (1995), Economic growth means an increase in the average rate of output produce per person usually measured on a per annum basic. It is also the rate of change in national output or income in a given period. Economic growth is the increase of per capital gross domestic product (GDP) or other measure of aggregate income. It is often measured as the rate of change in real GDP. Economic growth refers only to the increase in the quantity of goods and services produced. Gujarati (2002) defines economic growth as an increase in real gross domestic product (GDP). That is, gross domestic product adjusted for inflation. The growth can either be positive or negative. Negative growth can be referred to by saying that the economy is shrinking. This is characterized with economic recession and economic depression. Ullah and Rauf (2013) noted that whenever there is increase in real GDP of a country it will boosts up the overall output and we called it economic growth. The economic growth is helpful to increase the incomes of the society, help the nation to bring the unemployment at low level and also helpful in the deliveries of public services.

The role of housing finance in the acceleration of economic growth of nations has been acknowledged worldwide, especially in the developed economics. IMF (2011) posits that the importance of housing finance could be seen through housing market booms usually “followed by busts have been associated with financial instability and significant costs to the economy in many countries over the years”. They argued that the global financial crisis of 2007-2009 was occasioned by excessive subprime lending in the US. The crises quickly spread to other parts of the world such as Ireland, United Kingdom and Spain, causing financial instability.

Likewise Reinhart and Rogott (2009) showed that the six major historical episodes of banking crisis in advanced economies since the mid – 1970s were all associated with a housing boost. They document that this pattern can also be found in many emerging market crises, including the Asian

financial crisis of 1977-98, with the magnitude of house price decline being broadly similar in both advanced and emerging market economies.

Furthermore, Oyalowo (2012), examined the constraints limiting lending institutions' participation in housing finance supply in West Africa region. It also examines how governments across West Africa can tackle these constraints. The study used a regression analysis of secondary data related to factors necessary for lending institutions' participation in formal housing finance supply. The ratio of the private credit to GDP of West Africa countries between 2008 and 2010 was regressed against the independent variables inflation rate, procedures to register property, time to register property, cost of register property, strength of legal right index and dept. of credit information system. Similarly, Isa, Jimoh and Achuenu (2013) posit that the housing sector has a multiplier effect. In most developed economies, the housing sector is seen as an important sector for stimulating economic growth.

According to CAHF (2015), housing finance markets are developing in scale and diversity across Africa, creating opportunity for investor and practitioners, and promoting a new category for economic growth. One of the factors responsible for the growth of the market is growth in population and rural - urban migration. Consequently, the growth in population in many cities in West African countries has created demand for new housing. Hence West African housing finance markets is said to be dynamic and growing.

2.2 Methodology

The data for this study were drawn from Central Bank of Nigeria Statistical Bulletin, World Bank data base and Centre for Affordable Housing Finance in Africa - Africa Housing Finance year-books 2013 and 2015. The ex-post facto research design method was adopted in this research.

Model specification

This work is modeled after Oyalowo (2012) who studied housing market constraints in West African Region. The classical linear regression method was employed in the analysis of data which according to Gujarati and Porter (2009) is stated thus:

$$Y = \alpha_0 + \alpha_1 X_{1t} + \alpha_2 X_{2t} + \dots + \alpha_n X_{nt} + e_t \quad \dots \text{eqn (1)}$$

Where Y = Dependent variables

α_0 = Intercept

$\alpha_1, \alpha_2, \dots, \alpha_n$ = Slope or co-efficient of the parameter estimates

X_1, X_2, \dots, X_n = Independent variables

e = Stochastic error term

The generalized model for this study is written thus:

$$\Delta \text{RGDP}_t = \alpha_0 + \alpha_1 \text{MHFK}_t + \alpha_2 \text{CHF}_t + \alpha_3 \text{IR}_t + e_t \quad \text{---- eq(2)}$$

Where ΔRGDP_t = change in Real GDP which is a proxy for economic growth

α_0 = Intercept

$\alpha_1, \alpha_2, \alpha_3$ = Slope or co-efficient of the parameter estimates

MHFK_t = Mortgage Housing Finance in Nigeria

CHF_t = Commercial Bank Housing Finance in Nigeria

IR_t = Interest rate used as a control variable

e_t = error term

The model is disaggregated to be able to test all the hypotheses and it will be rewritten thus:

Hypotheses 1 and 2

$$\Delta \text{RGDP}_{Nt} = \alpha_0 + \alpha_1 \text{MBOHL}_{Nt} + \alpha_2 \text{CBOHL}_{Nt} + \alpha_3 \text{IR}_t + e_t \quad \text{-----(3)}$$

None inclusion of Ghana and Gambia in the Model

The countries of Ghana and Gambia were excluded from the model due to non-availability of sufficient quantitative data in these countries. Consequently, research questions will be used in discussing the two countries.

2.2 Data Presentation and Interpretation

TABLE 1: Nigeria Housing Loans and Other Variables Under Study (₦Billions) 1985 - 2014

YEAR	TOL	TOCBL	CBOHL	MBOHL	TOHL	GDP	THLPTL	THLPGP
1985	12.17020	12.17020	2.493700	0.000000	2.493700	134.5856	20.49021	1.852873
1986	15.70160	15.70160	2.840400	0.000000	2.840400	134.6033	18.08988	2.110201
1987	17.53190	17.53190	2.892400	0.000000	2.892400	193.1262	16.49793	1.497674
1988	19.56120	19.56120	3.007900	0.000000	3.007900	263.2945	15.37687	1.142409
1989	22.00800	22.00800	3.226700	0.000000	3.226700	382.2615	14.66149	0.844108
1990	26.00010	26.00010	3.210800	0.000000	3.210800	328.6061	12.34918	0.977097
1991	31.30620	31.30620	3.573200	0.000000	3.573200	545.6724	11.41371	0.654825
1992	42.94570	42.73680	4.059400	0.208900	4.268300	875.3425	9.938830	0.487615
1993	66.00000	65.66530	5.405200	0.334700	5.739900	1089.680	8.696818	0.526751
1994	94.74420	94.18390	0.000000	0.560300	0.560300	1399.703	0.591382	0.040030
1995	144.9645	144.5696	0.000000	0.394900	0.394900	2907.358	0.272412	0.013583
1996	170.1919	169.4371	0.000000	0.754800	0.754800	4032.300	0.443499	0.018719
1997	386.2885	385.5505	0.000000	0.738000	0.738000	4189.250	0.191049	0.017617
1998	273.6814	272.8955	0.000000	0.785900	0.785900	3989.450	0.287159	0.019699
1999	323.6891	322.7649	0.000000	0.924200	0.924200	4679.212	0.285521	0.019751
2000	509.1573	508.3022	0.000000	0.855050	0.855050	6713.575	0.167934	0.012736
2001	797.1894	796.1648	0.000000	1.024646	1.024646	6895.198	0.128532	0.014860
2002	961.2294	954.6288	0.000000	6.600618	6.600618	7795.758	0.686685	0.084669
2003	1222.929	1210.033	0.000000	12.89556	12.89556	9913.518	1.054481	0.130081
2004	1525.243	1519.243	0.000000	6.000000	6.000000	11411.07	0.393380	0.052581
2005	1978.811	1976.711	0.000000	2.100000	2.100000	14610.88	0.106124	0.014373
2006	2531.858	2524.298	0.000000	7.560000	7.560000	18564.59	0.298595	0.040723
2007	4854.248	4813.489	0.000000	40.75940	40.75940	20657.32	0.839665	0.197312
2008	7907.932	7799.400	466.8007	108.5315	575.3322	24296.33	7.275382	2.367980
2009	9030.730	8912.143	778.1404	118.5869	896.7273	24794.24	9.929733	3.616676
2010	7839.307	7706.430	670.3048	132.8761	803.1809	33984.75	10.24556	2.363357
2011	7435.539	7312.726	453.5036	122.8128	576.3164	37409.86	7.750836	1.540547
2012	8270.936	8150.030	539.7598	120.9054	660.6652	40544.10	7.987792	1.629498
2013	10137.89	10005.59	726.9216	132.2917	859.2133	42396.77	8.475271	2.026601
2014	12937.10	12889.42	556.1929	47.68000	603.8729	44507.88	4.667760	1.356777

Sources: 2014 Monthly Bulletin, Central Bank of Nigeria - Statistical Bulletin 2014

The World Bank: <http://data.worldbank.org>

Centre for Affordable Housing Finance in Africa-Africa Housing Finance Yearbook 2012, 2013 and 2015

Data presented on table 1 are housing finance data on Nigeria Economy. The data are total outstanding loans and the component for the housing sector in Nigeria. These loans are presented in billion of Naira. Data were sourced mainly from central bank of Nigeria statistical bulletin. Similarly, GDP was sourced from Central Bank of Nigeria statistical bulletin. Data on table 1 showed that mortgage banks started reporting their financial transactions from 1992, even though mortgage banking started in Nigeria in 1977. Data were available from 1997 - 2014, a period of 23 years out of 30 years (1985-2014) which is the study period.

The table further revealed that in 1992 the mortgage banks outstanding housing loans amounted to 0.208900 billion Naira which translates to 0.49 percent of total outstanding loans and 0.024 percent of GDP respectively. From available data on table 1, it could be argued that commercial banks are the major participants in the housing finance market in Nigeria. Also the share of outstanding mortgage loans by commercial banks appears to be very small when compared to total outstanding loan as shown on column 4, table 1. Column 4 (CBOHL) revealed that out of 30 years under study, commercial banks did not lend to the housing sector for a period of fourteen (14) years (1994- 2007).

For the period 1985 - 1993 and 2008 - 2014, which amounted to sixteen (16) years out of the thirty (30) years study period, commercial banks participated in the housing finance market. During this period housing finance contribution to GDP average 1.68 percent; a figure too small when compared to other African nations with a robust mortgage finance markets, such as South Africa 36 percent, Namibia 22 percent and Morocco 18 percent.

Table 2: Nigeria, Descriptive Statistics of Housing Loans and other Variables under Study in Nigeria

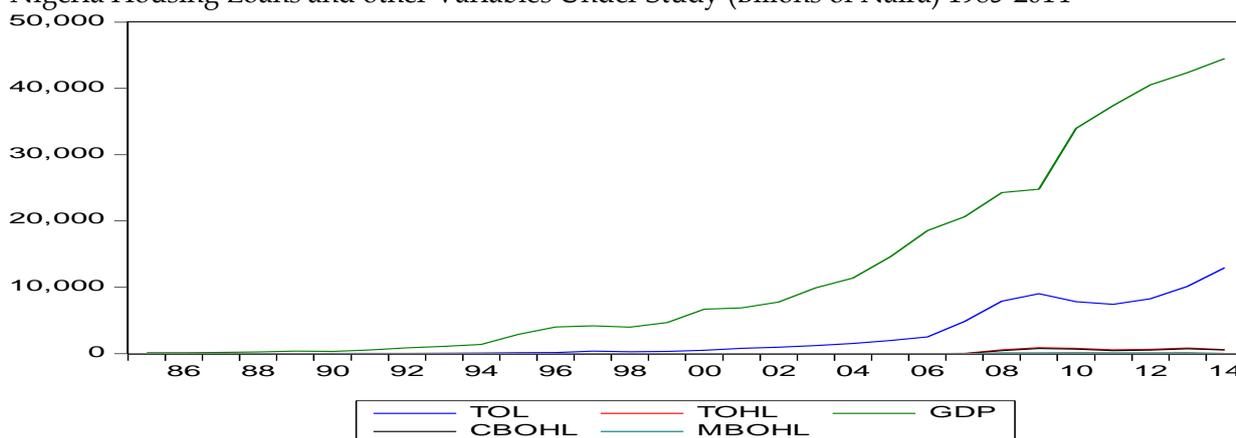
	LNRGDP	LNMBOHL	LNCBOHL	LNTHLPGP
Mean	5.361345	1.748246	3.465593	-1.453794
Median	5.288628	1.791759	1.544198	-0.679628
Maximum	5.828497	4.889417	6.656907	1.285555
Minimum	4.904583	-1.565900	0.913768	-4.363312
Std. Dev.	0.280466	2.336723	2.659163	2.045743
Skewness	0.296004	0.197940	0.248100	-0.234739
Kurtosis	1.831747	1.455706	1.086687	1.387385
Jarque-Bera	2.144111	2.435665	2.604653	3.526171
Probability	0.0342304	0.0295871	0.0271898	0.171515
Sum	160.8403	40.20966	55.44948	-43.61383
Sum Sq. Dev.	2.281181	120.1260	106.0672	121.3669
Observations	30	23	16	30

SOURCE: Author's EviewsComputation(2017)

The descriptive statistics in Table 2 above shows the aggregated averages of mean, median and mode for all the observations. The dispersion and variations in the series are shown by the standard deviation while the degree of pointedness and degree of departure from symmetry are shown by kurtosis and skewness respectively. A combined test of skewness and kurtosis known as Jacque-Bera Statistics which test for normality is also shown in the table above and the result shows that most of the variables are normally distributed with the exception of LNTHLPGP having the highest JB statistic and a p-value 0.17. This means that any variable with outlier are not likely to distort our conclusion and are therefore reliable for drawing generalization. Also none of the kurtosis value is greater than 3 showing evidence of platykurtosis. However, it can be observed that all the variables have kurtosis of less than 3, suggesting a departure from normality, though this is not a problem with financial time series.

Fig1:

Nigeria Housing Loans and other Variables Under Study (Billions of Naira) 1985-2014



The above graph (fig 1), shows the housing finance data movement in Nigeria. While the GDP moved slowly from 1985 to 1989, it started rising from 1990 and got to its peak in 2014. The slope of the total outstanding loans was below that of the GDP with a wide margin, indicating the

extent of the financial sector contribution to economic growth. The slope of CBOHL only rose above the horizontal line in 2008, indicating that the impact of contributions to housing finance by commercial banks on economic growth of Nigeria is zero. The contributions of mortgage banks could be said to be almost non-existence.

Table 3: Stationarity Tests of the Key Variables

Variable	ADF Stat	Critical Value @5%	P value	Order of integration
LNMBOHL	-4.0215	-3.6584	0.0253	I(1)
LNCBOHL	-6.5501	-4.0081	0.0025	I(1)
LNRGDP	-6.2810	-3.5950	0.0001	I(1)
LNTHLPGDP	-4.2121	-3.5875	0.0133	I(1)

SOURCE: *Author's Eviews Computation(2017)*

From Table 3, we discover that the variables are integrated of the same order as they are all stationary at first difference. This is so because at first difference, the ADF stat for all the variables are more negative than the critical values at 5% and their corresponding probability value are all less than 5%. It is on this premise that the null hypothesis of the presence of unit root is rejected and the alternative accepted.

2.3 Test of Hypotheses one and two

Step One: Restating of the Hypotheses in Null Form

Ho₁: The contribution of housing finance by Mortgage banks does not have a significant effect on economic growth of Nigeria.

Ho₂: The contribution of housing finance by Commercial banks does not have a significant effect on economic growth of Nigeria

Test Statistics: Ordinary least square with other diagnostics tests

Table 4: Regression Results Test of the Model Formulated

Dependent Variable: LNRGDP

Method: Least Squares

Date: 07/25/16 Time: 21:11

Sample (adjusted): 1992 2014

Included observations: 30

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	5.323074	0.340735	15.62232	0.0000
LNMBOHL	0.115620	0.097772	1.182550	0.2902
LNCBOHL	0.000771	0.122504	0.006291	0.9952
LNTHLPGP	-0.163188	0.131174	-1.244057	0.2686
R-squared	0.888235	Mean dependent var	5.648245	
Adjusted R-squared	0.821176	S.D. dependent var	0.225668	
S.E. of regression	0.095430	Akaike info criterion	-1.559755	
Sum squared resid	0.045534	Schwarz criterion	-1.472100	
Log likelihood	11.01890	Hannan-Quinn criter.	-1.748915	
F-statistic	13.24559	Durbin-Watson stat	2.306597	
Prob(F-statistic)	0.008160			

Source: *Author Eview's Computation(2017)*

From table 4, Economic Growth is proxy as Real Gross Domestic Product (RGDP) while Mortgage Banks contribution to Housing finance is proxy as Mortgage Banks Outstanding Housing Loan (MBOHL) and Commercial Banks contribution to Housing finance is proxy as Commercial Banks Outstanding Housing Loan (CBOHL), Ratio of Total Housing Loan to Total Loan (THLPTL) is

used as control variable. From the regression result in the table LNMBOHL shares a positive and none statistically significant relationship with RGDP as the coefficient is positive (0.115620) and the p-value is greater than 5% (0.2902). LNCBOHL shares a positive but not statistically significant relationship with RGDP as the coefficient is positive (0.000771) and the p-value is greater than 5% (0.9952).]

Step Three: Diagnosis of the Regression Result of Model one and two

From the result shown above, the R^2 is 89% indicating that the independent variables account for 89% of the variation in RGDP while 11% of the variation is explained by factors outside the model. The F statistic also shows that the overall regression is statistically significant and can be used for meaningful analyses. This is shown by the p-value that is less than 5% (0.008). The Durbin Watson Stat. which is 2.3 is approximately 2 showing that there is no evidence of autocorrelation. Essentially, the regression is good enough for the test of the set hypotheses.

Step Four: Decision for Hypotheses one and two

Given the fact that the p-values of the t-statistics in hypotheses one and two are all greater than 5%, we refuse to accept the null hypotheses and conclude that both Mortgage Banks and Commercial Banks contribution to Housing finance do not have significant impact on economic growth in Nigeria.

3. Discussion of Findings and Conclusion

3.1 Discussion of Findings

Objective one: To determine the effect of the contributions to housing finance by mortgage banks on the Economic growth of Nigeria.

From the regression result in table 4, LNMBOHL was found to have a positive and not statistically significant effect on RGDP as the coefficient is positive (0.115620) and the P-value is greater than 5% (0.2902). Mortgage banking as a strategy for housing delivery and economic growth has been in operation in most developed countries as early as 1930s. In Nigeria mortgage banking started with the establishment of the Nigerian Building Society in 1956 by the colonial government (Olaniran, 2003; Osibogun, 2016).

Even though mortgage banking started in Nigeria as far back in 1956, table 1 and fig. 1 reveals that activities of the market only came to the fore in 1992. The value of loans granted by the market in the year 1992 amounted to only N0.2089 billion. The low market performance continued until 2001, when for the first time the market granted loans of N1 billion. Given the capital intensive nature of housing, it is evident that N1 billion can only afford few numbers of housing units.

Trend analysis of outstanding mortgage loans by mortgage banks as depicted in fig. 1 reveals that the effect of the contributions to housing finance by mortgage banks on the economic growth of Nigeria is less than one percent on yearly average throughout the period under study. These findings correspond with the findings of similar studies carried out by Osibogun (2016), Akenju (2007) and Oyalowo (2012). Hence we concluded that objective one has been achieved.

Objective two: To ascertain the effect of the contributions to housing finance by commercial banks on the economic growth of Nigeria.

From table 4, Economic growth is proxy as Real Gross Domestic product (RGDP) while commercial banks contribution to housing finance is proxy as commercial banks outstanding housing loans (CBOHL), while ratio of total housing loan to total loans (THLPTL) is used as control variable. From the regression result LNCBOHL has a positive but not statistically significant effect on RGDP as the coefficient is positive (0.000771) and the P-value is greater than 5% (0.9952).

Based on the evidence on table 1 and fig 1, it could be argued that commercial banks are the main sources of fund to the housing finance market in Nigeria and this might be as a result of the federal government directives on commercial banks through the Central Bank of Nigeria to allocate a minimum of 5 percent of their total loan portfolio to the housing sector.

For the period under review the contribution of both mortgage banks and commercial banks to economic growth of Nigeria ranges between 0.0127 percent and 3.6167 percent. In 1985 it was 1.8529 percent and declined to 0.0127 in 2000, and thereafter increased to 3.6167 (the highest) in 2009. It further decreased in 2014 to 1.3569 percent. These findings are in line with the findings of 1sa, Jimoh and Achuen (2013), Oyalowo (2012), Sanusi (2003) and CAHF (2015) who carried out similar studies. Given the inter-relationship of the findings, it is evident that objective two has been achieved.

Ghana

Aggregate Housing Finance Market and Economic Growth of Ghana

It has been observed that the housing finance market in Ghana is grossly underdeveloped. This is attributable to the unstable political climate of the early 1980s, which crippled the housing finance market in Ghana, as people were afraid to build. Similarly, these years were also characterized by government lack of adequate resources to fund the housing sector. One of the sources of pride to the average Ghanaian is the ability to own a house which is considered more important than education and health. Housing is seen as a reflection of one's social status (Boamah, 2010).

According to Ghana Real Estate Developers Association (GREDA) (1998), the poverty level in the country is so high that only 5% of the citizens that are interested in building a house can do so from their own income. While 60% would need mortgage finance and the remaining 35% will not be able to own a house in their life time. This assertion is collaborated by the findings of Boamah(2010) who studied housing affordability in Ghana with a focus on Kumasi and Tamale. He noted that high premium is put on home ownership in Ghana, however a greater proportion of the household in Kumasi and Tamale are incapable of acquiring a house with their own earned income or owning a house in their life time.

The size of the housing finance market is so small that its impact is barely felt. The ratio of outstanding mortgage loan to GDP was 2.5% in 2004, 3.9% in 2006 and 0.50% in 2015 (Bank of Ghana, 2007, CAHF, 2015 Rust 2012). Ghana has 26 commercial banks, out of which only 5 officially offer mortgage loans as a product. The banks are HFC, Fedelity, Calbank, Stanbic and UT bank. The country's only non - bank institution which concentrate exclusively on lending for residential mortgage is Ghana Home Loans (GHL). Our findings revealed that less than 3% of total loans granted by banks goes into housing finance. An indication that the market is under developed when compared on regional and continental basis.

It has been argued that the formal financial institutions made minimal contribution to housing delivery in Ghana. Between 90 - 92% of houses build are constructed through self-help and on incrementally basis. This is referred to as sweat equity in Ghanaian Parlance). Sometimes the construction of a house takes between 5 to 15 years and by the time it is completed it is already out of time with modern reality (Nelson and Asamoah, 2014; CAHF, 2016).

According to Bank of Ghana (2007), the dearth of quantitative housing data in Ghana is associated with the nature of funding housing construction model in Ghana. The model which is based on personal savings, borrowing from friends, relatives and cooperative societies, is slow and prolong the construction period of a house. Conversely, the economic values on incremental bases are not capture in the Gross National Income (GNI) accounting of the country. The inability to correctly record activities in the housing market is a barrier to the growth of the market. Rust (2012), posits that "because the mortgage market is so small, current housing investment in the market is also small. Current housing investment in Africa countries is not well quantified due to dearth of data". Furthermore, housing construction in Ghana is driven by household rather developers or government. Government effort aimed at housing delivery is directed toward the civil servants who are usually allocated land in areas which lack basic amenities such as good access road, electricity

and pipe bore water. While the housing finance market only serve the needs of the few members of the society within the high income bracket.

For housing to play its role in the growth and development agenda, it must be accessible to the majority of the people. Boamah (2014) puts it thus, "access to affordable and sustainable housing fund is extremely essential for the provision of adequate shelter for the citizen of a country". Likewise Nelson and Asamoah (2014), noted that the mortgage market is used to meet the housing need of people in the developed economies. However the reverse is the case in the developing countries such as Ghana where the mortgage market is accessible to less than 30% of the working populace. These inhibitions suggest that the housing finance market in Ghana is not in position to impact positively and significantly to the economic growth in Ghana. However, given the 1.7 million housing units deficit, the Ghanaian housing market will require a minimum of 3.4 billion Dollars for new housing construction in order to bridge the housing deficit gap. If the above amount is invested into the Ghanaian economy, it is capable of transforming the economy while at the same time placing it on the path of sustainable economic growth and development.

Gambia

Aggregate Housing Finance Market and Economic Growth of Gambia

CAHF (2015), describes Gambia as one of the smallest countries in the African continent and one of the most densely populated. It has a population of about 1.9 million people. When compared to its West African neighbours, the country market size is very small. The financial market is under-developed with limited financial products. There are 12 commercial banks, out of which one is an Islamic bank. Bank interest lending rate is as high as 28.5% as at the end of 2014. There is a wide spread poverty rate in the country, estimated to be 48%. Due to the high rate of poverty, houses are mainly built with semi-permanent materials. It is estimated that about 52% of the houses are made of semi-permanent materials, while only 40% are built with permanent materials.

Given the shortfall in the housing delivery estimated to be about 50,000 units, there are opportunities in the housing and housing finance sector. An average price of three - bedroom bungalow cost US\$100,000, equivalent to Gambia MD4 million.

Gambia has only one functioning financial institution that market mortgage products. The Home Finance Company of the Gambia Ltd provides finances for people to buy homes. Repayment period is a maximum of 15 years. Also there are private developers that built houses and offer them for sales. In most cases these houses are beyond the reach of the lower and medium income earners. It could be argued that the housing finance market in Gambia has two distinctive characteristics which distinguish it from other housing finance markets in the region and in Africa. Firstly the market cater for the very rich on one side and secondly for the very poor on the other side. The houses built by private developers can only be afforded by the very rich, while the market made a provision for the very poor by establishing a company known as Amiscus Horizon. The objective of the company is to produce blocks in large quantity so that the poor can buy instalmentally on monthly bases until it is sufficient for them to commence the construction of their own houses (Hafield, 2016). It could be argued that the aggregate housing finance market in the Gambia has a positive outlook, but not statistically significant to the economic growth of the country due to wide spread poverty and high interest rate. Consequently, majority of the population have been prevented from participating in the housing finance market by these barriers (poverty and high interest rate).

3.2 Conclusion

Generally, the housing finance market in West African is under-developed. The huge investment opportunities in the market have not been exploited due to the small size of the mortgage market. Nigeria has the largest housing finance market in the region but its impact on economic growth is not statistically significant. It implies that in spite of the large size of the market, it is still under-developed.

The housing finance market in Gambia is worst hit as a result of wide spread poverty. Other constrain to the growth of the market in the region include but not limited to poor salary / wages paid to the average worker, high interest lending rate, land tenure system, high cost of formalizing title to land and the cumbersome processes involved in obtaining title document to land. In some cases, it takes up to three years.

3.3 Recommendations

In order to allow housing finance to play its developmental roles as obtainable in developed economies we recommend the followings:

The various governments of West African State should introduce policies that would make both mortgage and commercial banks increase their housing sponsorship in West Africa.

The high cost of land should be addressed with a view to making it affordable to those who are ready to build houses and at low interest rate too.

The private sector should be encouraged to utilize the huge opportunities that abound in the housing and housing finance by investing in the sector.

4 Research Limitations and Direction for Further Research

4.1 Research Limitation

The major challenge faced during the course of this study is availability of data on mortgage financing in Ghana and Gambia. However, this problem was managed by not including these countries in our model specification.

4.2 Suggestion for Further Study

Based on the result of this study, we therefore suggest that further study should be carried out on this area, expanding the scope to other African countries not covered in this study.

References

- Akeju, A.A. (2007). Challenges to Providing Affordable Housing in Nigeria. A Paper Presented at the 2nd Emerging ultra-Africa international conference on Housing Finance in Nigeria, held at SehuYar'adua Center Abuja, Nigeria.
- Afrane, S.K., Owusu-Manu, D., Donkor-Hyiaman, K.A., & Bondinuba, F.K. (2014). Toward Innovative Housing Financing in Ghana: an Evidence Based from South Africa's Pension Housing Financing System. *Journal of policy and administrative research* 4(4), pp. 97 - 110.
- Bank of Ghana (2007). The Housing Market in Ghana. *Research department bank of Ghana*.
- Bensouda, A. & Co, LP (2013). Improving land Sector Governance in the Gambia. Implementation of the land Governance Assessment Framework (LGAF). Kanifing Institutional Area Kanifing Municipality.
- Boamah, N.A. (2010). Housing Affordability in Ghana: a Focus on Kumasi and Tamale. *Ethiopian journal of environmental studies and management*, 3(3), pp. 1 - 11.
- Boamah, N.A. (2014). Housing Policy in Ghana: the Feasible Paths. *GJDS*, 11 (1).
- Centre for Affordable Housing Finance in Africa (CAHF, 2013). Housing Finance in Africa year book: a review of some of Africa's housing finance markets. Parkview, South Africa Centre for Affordable Housing Finance in Africa, a division of Fin-Mark Trust.
- Centre for Affordable Housing Finance in Africa (CAHF, 2015). Housing Finance in Africa year book: a review of some of Africa's housing finance markets. Parkview, South Africa Centre for Affordable Housing Finance in Africa, a division of Fin-Mark Trust.
- Centre for Affordable Housing Finance in Africa (CAHF, 2016). Understanding Ghana housing finance market.
- Harris, S.C. (2014). Investment Climate Statement. *U.S Department of State: 1 - 19*.
- Hatfield, J.P. (2016). Innovation Affordable Housing Practices in Africa: Cement Block Banking in the Gambia. Case Study Series 3. Centre for Affordable Housing Finance in Africa

-
- Isa, K.B., Jimoh, R.A., and Achuen (2013). An Overview of the Contribution of Construction Sector to Sustainable Development in Nigeria. *Net Journal of Business Management*, 1(1), pp. 1 - 6.
- Nelson, I.D., Asamoah, R.O. (2014). Participation of Real Estate Development in Mortgage Financing: Push and Pull Factors in Ghana. *International journal of management sciences* 3(3), pp. 126 - 139.
- Olaniran, O. (2003). Mortgage Banking: Principles, Policies and Strategies, Osogbo, Nigeria, Newdeal publications (nig) Ltd.
- Osibogun, D. (2016). Rethinking Nigeria's Mortgage Financing Policies for Sustainable Development and Global Competitiveness of the Chartered Institute of Banking of Nigeria.
- Oyalowo, B.A (2012). Housing Market Constrains in the West Africa Region. *Mediterranean Journal of Social Sciences*, 3(II), pp. 241-252
- Rust, H. (2012). The Importance of Housing Finance in Financial Sector Development in Africa. *Centre for Affordable Housing Finance in Africa, a division of FinMark Trust*.
- Sanusi, J.O (2003) Mortgage Finance in Nigeria: Issues and Challenges. Being text of a paper presented at the 9th John Wood Ekpenyong Memorial Lecture, Organized by the Nigerian Institution of Estate Surveyors and Valuers, January 29.
-