

# Housing, economic growth and poverty: a literature review



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**Abstract**

This paper reviews literature on the relationship between housing finance, economic growth and poverty. While it is evident that housing construction creates jobs, the review reveals that there is a need for more research to determine the long-term economic benefits of housing and whether housing finance in particular can be an effective tool in eradicating poverty. The limited evidence is due in part to limits in data and the need to utilize robust econometric techniques to determine the direction of causality in these relationships (i. e. does increased economic growth lead to increased demand for housing and hence housing construction and finance or does housing construction and finance lead to increased economic growth and lower poverty). Though little direct evidence was found, the financial deepening literature suggests that as housing finance deepens financial markets, it may play a role in poverty alleviation. This relationship should be investigated further.

**1. Introduction**

While the focus of this review is to summarize empirical evidence regarding the relationship between housing, economic growth and poverty, there is considerable stylized and anecdotal evidence that makes a case for housing as a prescription for poverty. This literature is extensive although recent books on eradicating poverty in the developing world say very little explicitly about the role of housing. The End of Poverty by Jeffrey Sachs (2011), states that most would accept that fact that schools, clinics, roads, electricity, ports, soil nutrients, clean drinking water; and the like are the basic necessities for a life of dignity and health, as well as for economic

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productivity. Sachs goes on to delineate the strategy for ending extreme poverty by 2025. While he mentions key investments in people and in infrastructure, he does not explicitly mention housing. The same can be said of Banerjee and Duflo (2011) and Karlan and Appel (2011). Perhaps there is an underlying assumption that housing is necessary. Perhaps, housing is considered part of the infrastructure that they refer to. Or, perhaps the underlying belief is that economic growth will lead to better housing conditions. At any rate, a specific consideration of the impact of housing on poverty is not given in these recent books on the subject of eradicating poverty in this millennium. This is representative of what was discovered upon reviewing the empirical literature on this issue.

Some authors assert that housing loans and finance are needed but do not provide economic analysis to back this claim. For example, Bunnarith (2004) in discussing national housing policy in Cambodia asserts that "housing is needed so that people can have a safe and secure environment." There is no discussion in his policy paper of the true economic impact of housing construction or finance on economic growth or poverty reduction. Similarly, Habitat for Humanity specifically acknowledges that housing is necessary to eradicate poverty. In 'Consequences of Poverty Housing,' Habitat for Humanity asserts that the lack of suitable housing creates disadvantages at many levels. It is seen as interfering with a household's ability to break out of poverty because so much of the household's time and money is spent on house maintenance and repairs and not on food, health, education and income generation. Due to a lack of suitable housing, there is less efficiency arising from illnesses, inability to educate children and an inability to provide

a safe and secure environment for economic endeavors. These are testable implications but little has been done to document these losses empirically, likely due to data limitations. Some evidence is found and listed in the education section.

While there is quite a bit of literature on the interactions between GDP and housing investment, there is surprisingly little evidence documenting the relationship between housing, economic growth and poverty. One reason for the limited evidence is limitations in quantity of data in developing countries, especially the poorest ones, Hull (2009). A second reason for the limited evidence is that it is difficult to determine the direction of causality between economic growth and housing. There is a need to use general equilibrium models which are not easily tested with the available data in the developing countries. Data limitations are particularly severe when trying to test these relationships in the poorest of the developing countries. Finally, macroeconomics and housing finance were not studied in depth in economic literature prior to the 1980s, even for the U. S. When studies were done they typically looked at housing demand as a function of income and growth not the impact of housing on economic growth, see Leung (2004). Even if where there is analysis of housing finance in developed countries, it may be difficult to make direct inferences about relationships between housing and economic growth in developing countries using those results because so many other factors are at work including financial sector development, government involvement and types of housing.

With these limitations in mind, there is some information that may be useful in analyzing the impact of housing finance on economic growth, job creation <https://assignbuster.com/housing-economic-growth-and-poverty-a-literature-review/>

and poverty. The impact of housing on economic growth, in developed and some developing markets is highlighted in the next section. Next, there is a review of the impact of housing on job growth. The third section reviews what is known about the impact of housing and housing finance on job creation. Section four reviews the impact of housing finance on poverty. Some inferences in that section are based on studies of financial market development on poverty. Section five examines potential social and revenue consequences of housing. Finally there is a summary of findings in section six.

## **2. Housing and Economic Impact**

### **Housing and Economic Growth:**

Hongyu, Park and Siqi(2002) recognize the causality dilemma when studying housing investment and economic growth. They use Granger causality tests to study the case of China from 1981 – 2000. This study does not address the poverty impact it just studies housing and economic growth. The authors find that compared to non-housing investment, housing investment has a stronger short-run effect on economic growth. They also find that housing investment has a long run impact on economic growth but not on non-housing investment. On the other hand, economic growth has a long run impact on both housing and non-housing investment. These findings suggest that housing is important in explaining only short-term economic cycles in economic growth.

Chen and Zhu (2008) also study the long- and short- run relationship between housing investment and economic growth in China. The authors look at panel data from 1999 through 2007. They use robust econometric tests to examine <https://assignbuster.com/housing-economic-growth-and-poverty-a-literature-review/>

Granger causality of the relationship and find that the relationship is bidirectional in both short- and long-run. In other words, in China during this period, housing investment impacted economic growth and vice versa. It will be interesting to see if this result holds over a longer period where more economic cycles are included in the data. Interestingly, the relationship is different depending on which provinces are analyzed. The eastern provinces show bidirectional causality like the overall results but results for other provinces indicate that GDP granger causes housing investment but not vice versa.

In addition to the empirical analysis of the relationship between housing and economic growth, there are some estimates of multiplier effects associated with construction in developing countries. For example, Uy (2006) cites that for every 1 peso spent on housing activities in the Philippines, an additional 16.61 pesos is contributed to the GDP. In Argentina, Freire, et al (2006) estimate that a 1,000,000 peso investment in construction leads to 1.8 times that amount in demand. In 1995, a United Nations study indicated that in most developing countries construction of low-income housing is labor intensive and therefore housing construction has a high multiplier effect of between 2 and 3 times the initial investment. This arises due to the large infrastructure investment (roads, utilities, water, etc.) required in housing development in those countries. In comparison, The National Association of Realtors' model suggests that the multiplier for home sales in the U. S. is between 1.34 and 1.62.

Erbas and Nothaft (2002) study a sample of MENA (Middle Eastern and North African) countries. Using parameters from the U. S. they simulate the impact  
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that improved home mortgage availability would have on housing markets and economic growth in these countries. They find that mortgage market reforms would increase housing units built by 10% with a 600 basis point decline in mortgage interest rates. The impact that the increased mortgage accessibility and housing would have on economic growth is not significant however. That is because they find, like other studies, that increased investment in housing “crowds out” investment in other sectors. The impact on overall growth will be greater if this housing finance helps to improve small business credit.

### **Housing Finance and Affordability**

Dübel (2007) proposes a model where housing prices are determined by rents,  $R$ , growth,  $g$ , and the opportunity cost of capital,  $k$ , where

$$P = R/(k - g).$$

The role of housing finance in this model is to reduce the cost of capital. As that cost is lowered, housing prices fall and affordability of housing increases.

### **Housing and Savings**

Buckley (1996) cites several reasons that mortgage market development can improve household savings. First, the return to housing will likely provide positive returns especially in light of rapid urbanization in developing countries. Second, housing provides the most secure collateral against market fluctuations and a positive yield over the long-run. Third, housing prices are less volatile than other asset prices. Fourth, the availability of housing improves labor mobility and therefore employment potential.

Finally, the availability of affordable housing finance may lead to increased

savings as potential homeowners save to make the required down payment and to maintain their asset.

While many of the work in this area suggests that there should be benefits to overall savings and investment arising from increased access to affordable housing, the literature does not appear to have documented these benefits empirically. This is an area rich for further exploration.

### **3. Housing and Job Creation**

#### **The Case of the United States**

Wardrip, Williams and Hague (2011) review the literature on the role of affordable housing in particular, in creating jobs and stimulating local economic development in the U. S. They find that the development of affordable housing increases spending and employment in the surrounding economy. There are several models used in the housing literature that use “ inputs” such as information on the purchase and production of goods and services for hundreds of U. S. industry sectors, the type and number of businesses in a given community, and a measure of the spending associated with a given program. Given these inputs, the models “ output” the level of economic activity expected for a given level of housing investment. For example, the National Association of Home Builders uses a proprietary model to estimate the impact of building 100 new low-income housing tax credit developments for families. The model predicts that the investment will, on average, lead to the creation of 80 new jobs from the direct and indirect effects of construction and 42 jobs supported by the induced effects of increased spending. In the long-term, building these



units also leads to 30 new jobs that support on-going consumer activity of the new residents. Market-rate apartment housing will create a similar amount of jobs with just a couple of additional jobs (32) supported by households occupying the new homes. Of course the models are dependent on the productivity of investment within the community and would likely look very different across countries being considered. It will depend significantly on the amount of skilled labor available for the construction work since 70% of the jobs created as a direct or indirect result of the new construction, are in fact construction jobs.

## **Rural vs. Urban**

In support of the findings above, in considering the impact of housing development on a rural community's economy, the Housing Assistance Council states that housing construction and rehabilitation have a high ratio (62.3%) of value-added to gross outlays. This means that a large percentage of the outlay for housing construction is available to create wages and salaries, and stimulate job growth in rural economies in the U. S. The document does not compare the ratio for rural communities with that in urban communities. This is an important distinction since most of the growth in developing countries centers around urban areas. Quigley (2008) suggests that results on the relationships between investment and economic growth may be dependent on whether that investment is rural or urban. The author finds that urbanization promotes productivity due to increases in specialization, centralization of knowledge, complementarities in production and economies of scale and scope. If this is true, an investment in an urban center may produce greater economic growth than that same

investment in a rural area. This will be an important factor in directing housing policy and finance.

### **Housing and Jobs in Emerging Markets**

In emerging markets there is some data on job creation as well as the previously cited multiplier effects associated with construction. For example, in Argentina, Freire, Hassler, et. al (2006) estimate that a 1, 000, 000 peso investment in construction creates some 40 jobs directly and 20 jobs indirectly from services and related industries. Tiple (1994) cites numerous studies that find multiplier effects from housing investment. For example, the National Building Organization in India estimates that a \$1, 000, 000 investment in building construction leads to 600 on-site jobs and 1, 000 indirect jobs. The construction process may stimulate economic growth through backward linkages (e. g. processing building materials) and forward linkages during and after the construction process (e. g. restaurants, repair shops and small scale manufacturing). However, according to Erbas and Nothaft (2002), housing construction in some developing countries is actually quite capital intensive and reliant on imported materials; as a result only a small percentage of the labor force of these developing countries is employed in construction. In addition to the construction related jobs, Dübel (2007) finds a positive correlation between financial and real estate related services and the housing to GDP ratio. Specifically, during the property market upturn in Hong Kong in the 1980s and early 1990s, a doubling of the housing market share of GDP led the share of financial, insurance, real estate and business services to triple from 6. 5% to 16. 3% of GDP. Other service sectors,

including community, social and personal services also grew, likely as a result of indirect inputs to construction activity as well as increased tax revenues.

#### **4. Housing and Its Impact on Poverty**

The literature on the relationship between housing and poverty is much smaller than that on housing and economic growth. Hull (2009) notes there are significant data limitations especially on headcount poverty and labor market outcomes. These data limitations make testing difficult. There is a particular need for data in sub-Saharan Africa. Some findings can be noted and they suggest that all housing investment is not created equal when it comes to addressing poverty. Some of these studies are highlighted here.

Gutierrez *et al.* (2007) find strong evidence that the sectoral pattern of growth and its employment and productivity-intensities matter for poverty reduction. While employment-intensive growth in the secondary sector (manufacturing, construction, mining and utilities) is correlated with poverty reduction, employment-intensive growth in agriculture is correlated with increases in the poverty headcount. By extension, if housing creates growth in manufacturing, construction, mining and utilities, it may be effective in reducing poverty. Similarly, Hull (2009) finds the construction sector is relatively productive but not in all countries. That is, construction reduces measures of poverty in some but not all countries.

Erbas and Nothaft (2002) find that low income housing has a lower import component in production and also higher labor intensity. This implies that construction of low income housing will lead to greater employment and growth than the construction of middle or high income housing.

Construction of low income housing can effectively improve the living standards of the poorer segments of the population in two ways - by creation of jobs and by creation of suitable housing.

Tipple (1994) reviews the literature on the links between employment and housing development and shows that investment in shelter is very effective for promoting employment, especially among lower-income groups; some of the benefits to the economy tend to be inversely proportional to housing cost meaning that low cost housing is more beneficial to the economy.

The informal sector and small-scale enterprises tend to outperform the formal sector and larger enterprises.

### **Housing Policy and Poverty in Developing Countries**

As housing finance policy is considered, the housing programs and policies of local governments must be accounted for in order to assess the potential effectiveness of housing finance in different countries. For example, Malpezzi and Sa-Aadu (1996) review contemporary African housing markets and policies. They find that resource allocation in these countries was quite different than their intended objectives. These policies have discouraged housing investment and have been both inequitable and distortionary. The authors suggest that privatization of housing investment is more efficient and the African governments need to "disengage." Taking the example of the U.S., direct government housing production has been less efficient than private sector tax incentives in developing affordable housing [see Erbas and Nothaft (2002)].

Researchers and policymakers have noted that the housing finance systems in some countries have not been effective in reaching the low income segments of the population. For example, Moss (2004) states that in South Africa the housing finance system has had little impact on the low-income segment of the population. Specifically, “attempts to expand credit into this market through micro-loans have been characterized by initiatives that have yet to demonstrate some form of success.” The financial sector in South Africa consists of many banks, a number of specialized finance companies and a large number of the so-called alternative lenders. Future studies should investigate which of these alternatives is likely to have success in reaching the lower income segments of the population. According to Moss (2004), housing finance has also not been very successful in Nigeria where the gap between income and shelter cost is very wide and has basically eliminated the low income earners from the housing market. Similarly, Rahman (2009) states that the lack of available and accessible housing finance has been identified by the Government of Bangladesh as one of the important hurdles in improving housing conditions for middle- and lower-income households. Although several potential sources of housing finance for mid- and high-income consumers exist, most of the low-income families’ needs are still unmet.

### **Housing Finance in Developing Markets**

While there are differences in how housing finance occurs across developing countries, there are some similarities and shared concerns. The degree to which a country’s banks invest in mortgage lending is relatively low in developing countries when compared to developed countries. For example,

Rahman (2009) cites that in Bangladesh, 4% of banking sector assets are in housing. In many countries there are state funded and/or sponsored housing finance institutions with government guarantees. However, there may be allocation problems in that loans are allocated based on politics and not on financials and the granting process can be long and inefficient. There are not as many types of mortgage instruments and in fact many countries are just beginning to grant fixed-rate mortgages which eliminate interest rate risk for the borrower. The maturity of mortgage loans tends to be shorter in developing countries - 10 years is the maximum term for some mortgages in Bangladesh. In addition to state sponsored financial institutions and banks, home finance is offered by micro finance institutions. In Bangladesh, one such institution offers these loans for a term of 10 years without collateral. Although there is no collateral, the borrower must obtain title to the land and must sign a pledge to repay and obtain a group pledge to repay the loan if he or she fails to do so. These programs tend to rely on a borrowers track record, group pressure and mutual support to control credit risk. Moss (2004) finds similarities in housing finance in South Africa and to a lesser extent, Nigeria, Ghana and Tanzania. In most of these countries, anecdotal evidence suggests that the supply of housing finance is much less than the demand and that the institutional structures have not provided sufficient access to housing for the poor.

### **Housing, Financial Deepening and Poverty:**

One segment of housing finance is the secondary mortgage market and the creation of mortgage instruments or bonds. While there has not been research on the development of mortgage markets and poverty specifically,

the development of those markets can be viewed as part of an overall financial deepening of the capital markets in these developing countries. Financial deepening has been studied and it may serve as a proxy for the development of secondary mortgage markets to the extent that they occur simultaneously. At any rate, the development of a secondary mortgage market would be consistent with increasing the breadth and depth of the capital market. Therefore, a review of the relationship between financial deepening and poverty may tell something about the potential impact of mortgage market development and poverty. Consistent with this view, Malpezzi (1999) suggests that much of the world is shifting from a housing finance perspective, where special circuits are used to mobilize short-term household deposits for long-term mortgages, to a perspective where housing finance is integrated with broader capital markets.

Buckley and Madhusudhan (1984) test a model of the relationship between housing investment and GDP, anticipated inflation, changes in inflation and the extent of capital deepening across several developing and transition countries. They find that, holding all else constant countries with deeper financial markets invest relatively more in housing. Singh and Huang (2011) analyze data from sub-Saharan Africa between 1992 and 2006. They find that financial deepening (as measured in part by credit to the private sector as a percent of GDP) is associated with less poverty and income disparities in SSA countries and that this is most important in early stages of financial development. Stronger property rights strengthen this relationship. Finally, Beck, Demirguc-Kunt and Levine (2004) examine a broad cross country sample of 58 developing countries and find that financial

development (as measured by the ratio of financial intermediation to the private sector to GDP) reduces income inequality by disproportionately raising the incomes of the poor.

### **Impact of Financial Deepening on the Base of the Pyramid and Absolute Poor**

Singh & Huang (2011) look at different definitions of poverty and examine the impact of financial deepening on them. The measures of poverty include, the headcount index which measures the percentage of the population living with per capita consumption or income below the poverty line, defined as US\$1 a day. Another measure is the poverty gap which takes into account the distance of the poor from the poverty line. A third measure is the income of the poorest quintile or average per capita income of the poorest 20 percent of the population. Using each of these measures of poverty and a sample of SSA countries, the authors find that poverty is inversely related to financial deepening. The authors also look at the Gini coefficient which is derived from the Lorenz curve. Larger values of this coefficient indicated greater income inequality. For this variable the relationship between poverty and financial deepening is insignificant. In other words, financial deepening reduces absolute levels of poverty but does not impact income inequality in a significant manner in this sample of SSA countries. This suggests that various definitions should be examined to gain further insight into the relationship between housing and poverty and to capture the impact on the absolute poor.



## **5. Housing Finance and Revenue and Social Consequences**

### **Government Revenue Links to Housing**

Wardrip, Williams and Hauge (2011) itemize revenues from housing development in the U. S. Some lessons can be learned from this data.

Revenue sources during the construction phase include sales taxes on building materials, corporate taxes on builders' profits, income taxes on construction workers, and fees for zoning, inspections, and the like.

These estimates presume that the building materials are purchased locally, to the extent the materials are brought in from elsewhere, revenues will of course be lower. This is something that will impact housing construction in IDA countries. Revenues in the model depend on local tax structures, construction costs, development fees and whether the local mix of industries is conducive to capturing construction-related activity. For example, Hangen and Northrup (2010) analyze the effects of developing and rehabilitating 582 affordable homes in Rhode Island in 2007 and 2008 with \$25 million in housing bonds. They estimate that the subsequent income, corporate and sales taxes and fees associated with the total economic activity increased state revenues by roughly \$16.7 million during the development period. In an analysis of a proposed Pennsylvania state housing trust fund, Econsult (2009) finds that for every \$1 million in proposed spending, the state stands to gain \$82,000 in revenue from the construction of single family homes; these revenues would be higher if the \$1 million were spent on affordable multifamily housing.

In addition to immediate fiscal benefits, housing construction also provides on-going benefits to the locality. On-going revenue sources include

residential property taxes, property taxes from the businesses supported by the residents, and utility user fees. A residential development has a net positive fiscal impact only if taxes exceed the cost of providing services to the residents. The evidence regarding the net effect of affordable housing is inconclusive. However, there is evidence to suggest that market-rate housing provides net positive fiscal impact (National Association of Home Builders, 2009).

### **Political Stability and Housing**

There is a presumption that housing improves political stability. So far, no evidence has been found to indicate that this is true although it is a stylized fact. Provision of housing is international law. Sachs (2011) reminds us that it's a right granted in the U. N. Universal Declaration of Human Rights as follows:

Everyone has the right to a standard of living adequate for the health and well-being of himself and of his family, including food, clothing, housing and medical care ...

There may be indirect support to the extent that there has been evidence to indicate that housing improves education and education is believed to improve political stability (see evidence in next section).

The relationship between political stability and housing may go in the other direction. In other words, political instability can affect the housing market. According to Tu and Bao (2009), instability may weaken investor's beliefs in property rights, putting the investors in fear that part of the investment may be lost due to poor protection. Therefore, investors may pay less for the  
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property rights when facing political uncertainty. Their study uses 10 years of data from Hong Kong and Singapore where there were differences in political scenarios but similar land lease structures and property cycles. The empirical evidence supports the idea that political instability lowers property rights premiums.

### **Education and Housing**

To the extent that housing improves homeowner's borrowing capacity, housing finance could lead to more investment in human capital.

Since investment in human capital may require an individual to borrow money, and borrowing money is costly, to the extent that housing finance lowers the cost of borrowing, it should lead to larger investments in human capital. Many authors [starting with Becker (1975) and Atkinson (1975)] studied the link between investment in human capital and wealth distribution. An implication of these models is that income inequality will decrease as access to finance improves.

Some studies have documented a link between housing and education. To the extent that housing finance improves housing affordability for the poor, housing finance may improve education opportunities for the poor.

Jacoby (1994) finds that lack of access to credit perpetuates poverty in Peru because poor households can't afford to provide their children with appropriate education. Jacoby and Skoufias (1997) find that without access to finance, shocks to income cause poor families to discontinue schooling for children. Housing provides an asset that can be used to smooth shocks to income.

If housing indeed improves education opportunities for children of the poor then by extension housing will improve political stability. Sachs (2011) in explaining why governments should provide education, quotes Adam Smith who said, "An instructed and intelligent people ... are more disposed to examine, and more capable of seeing through, the interested complaints of faction and sedition... therefore, the whole society is at risk when any segment of society is poorly educated."

## 6. Summary

A review of the literature pertaining to housing, economic growth and poverty reveals that much more research is needed in order to determine the true economic benefits of housing and whether housing finance in particular can be an effective tool in eradicating poverty. The paucity of evidence is due in part to limits in data and the need to utilize robust econometric techniques to test for the direction of the causality in these relationships. In other words, more research needs to explore whether housing construction leads to economic growth or economic growth leads to increased demand for housing and by extension housing finance. Although there is little direct documentation that housing finance improves economic standing or living standards of the poor, some inferences can be made from the related literature. The most promising evidence is found in the financial deepening literature where it has been shown that improvements in financial markets are associated with reducing absolute levels of poverty. To the extent that financial deepening improves with the development of mortgage markets, then housing finance may also be effective in reducing poverty. In addition, there appears to be solid evidence that housing construction

produces jobs - directly and indirectly through the supporting service industries. Housing is also shown to improve prospects for education and thus may reduce income inequality. Evidence indicates that there is no one size fits all relationship between housing, economic growth and poverty. Although evidence shows that housing investment impacts economic growth, that relationship varies within countries and over time.

While not explored in depth in this review, there are some concerns regarding the impact of housing on economic development and poverty. For example, due to considerable transactions costs, some suggest that housing may reduce job mobility. In addition, while housing construction may create construction related jobs, there is a question as to whether that just crowds out investment in other sectors of the economy. Housing finance while improving access to housing, may also increase opportunities for speculation and may lead to large booms and busts and housing cycles that may negatively impact the economy in the longer run. These and other concerns should be explored further to determine their significance.

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