INTergenerational Social Mobility in Latin America: A Review of Existing Evidence

MOvilidad Social Intergeneracional en América Latina: Una Revisión de la Evidencia Actual

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Abstract

This article reviews evidence on intergenerational social mobility in Latin America. Results indicate that mobility is low in the region, even when compared with the United States and United Kingdom, which rank low on social mobility. The evidence also suggests high levels of immobility at the income distribution’s lower and upper tails. While intergenerational education mobility have improved in recent decades, which may increase income mobility for younger cohorts, overall the region still presents lower intergenerational social mobility. Previous studies suggest that these results might be associated to social exclusion, low access to higher education, and labor market discrimination.

Keywords: Intergenerational social mobility, Latin America, inequality, social exclusion, education.

JEL Classification: D30, D60, I30.

* The views and interpretations in this document are those of the authors and should not be attributed to the Inter-American Development Bank, or to any individual acting on its behalf. The authors would like to thank two anonymous reviewers for their comments. Viviane M. R. Azevedo (vivianeazevedo@yahoo.com) and Cesar P. Bouillon (cesarb@iadb.org).
I. INTRODUCTION: PERCEPTIONS OF INTERGENERATIONAL MOBILITY IN LATIN AMERICA AND THE ROLE OF SOCIAL EXCLUSION

Latin America and the Caribbean (LAC) continue to have relatively high income inequality compared to other regions (see Figure 1). Even though this per se is a grave concern for policymakers in the region, it is important to note that cross-sectional data show only “snapshots” of income distributions in a moment in time. Income distributions may change significantly over time due to the differential effects of economic growth, changes in human capital of different population groups, changes in returns to assets, including human capital, and changes in labor market opportunities, among other factors. These changes are important, as they may systematically benefit or harm certain groups of the population, thus preventing societies from ensuring equal opportunities. Two societies with similar snapshots of income distribution, for instance, can have different welfare levels depending on the degree of social mobility. The analysis of social mobility aims to track the evolution of income distributions over time, looking at the income dynamics of specific agents and their position across the income distribution over long periods of time, and even over generations.

Depending on the importance of inherited abilities, intergenerational social mobility is closely related to the degree of equality of opportunities in a country. What separates the “winners and losers” or the “haves and the have-nots” in a society has been pointed out not only to hinder economic growth but also to be a major force of political instability and violence. Many authors have argued that one of the positive outcomes of market reforms and market-based industrial and post-industrial economic structures is a constant expansion of social mobility opportunities for the population (Cortés and Escobar, 2005; Featherman et al., 1975).
The concepts of social exclusion, income inequality, inequality of opportunities, poverty, social mobility and growth are intimately related. As noted by Ocampo (2004) “social exclusion manifests itself in Latin America and the Caribbean most clearly in persistent unequal income distribution, which gives rise to poverty that is worse than the region’s level of development would suggest”.

This article summarizes key concepts related to social mobility, as well as its measurement and determinants, focusing on intergenerational mobility and relating it to the concept of social exclusion and to changes in democratization and its effects on social spending, globalization and technological change and its effects on labor markets, with a focus on Latin America. The paper will try to address a series of key questions related to intergenerational social mobility in the region under the constraints imposed by existing data and studies. These questions include: Can we measure intergenerational social mobility in Latin America? Is it lower than in other regions in the world, and if so, why? What are its determinants? How has it evolved in recent decades? How has it been affected by democratization, increases in social spending and expansion of access to education, changes in labor markets due to globalization and technological change, urbanization on social mobility?

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1 See for example Fields et al. (2007) for individual earnings mobility during positive and negative growth periods in Argentina, Mexico, and Venezuela.
The next Section of this paper briefly summarizes the definition of intergenerational social mobility, and the third Section summarizes the methods used and the empirical evidence available for measuring intergenerational social mobility in Latin America, comparing them with evidence for OECD countries. Section 4 focuses on subjective data and describes perceptions of mobility in the region and its relationship with inequality. Section 5 collects evidence on empirical work that shed light on the following question: What influences intergenerational social mobility in the region? Section 6 presents final remarks.

II. WHAT IS SOCIAL MOBILITY?

Social mobility is usually defined as the way individuals or groups move upwards or downwards from one status or class position to another within the social hierarchy. More specifically, sociologists define social mobility as movement between different social classes or occupational groups and the related positive and negative returns. The latter are measured in terms of income, employment security, and opportunities for advancement, among other considerations.

While the sociological literature generally defines social mobility in terms of movements between social classes or occupational groups, the economics literature largely concentrates on earnings or income and income mobility. While income has advantages, since it represents a direct measure of resources—at least at a specific point in time—social class may represent a better measure of life opportunities.

From an economics point of view the concept of social mobility lacks a standard definition and varies from study to study. The general idea it conveys is to break the dependence of individual outcomes on initial conditions. As pointed out by Fields (2005), the concept of social mobility is multifaceted and can produce different empirical answers to basic questions unless the mobility concept under examination is precisely defined.

Behrman (2000) states “social mobility is used by scientists to refer to movements by specific entities between periods in socioeconomic status indicators”. This definition seems to be representative of the economics literature on social mobility; however there is a need to analyze the different mobility concepts that are embedded in it. Moreover, in order to discuss social mobility it is necessary to have some measurement of social inequality, in order to assess whether there is change or movements along the distribution of some social outcome. Even though the theoretical literature on social mobility usually focuses on broader measures of social mobility, more specific indicators such as income, educational attainment or profession are used to measure social mobility.

Timing is also an important dimension in measuring social mobility. In the intragenerational mobility context, the time frame in consideration is individuals’ lives.

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2 This definition is from an online dictionary: http://www.allwords.com.
3 For more details on the concepts and different measurements of social mobility, including intragenerational social mobility, see Behrman (2000), Fields (2000; 2005) and Galiani (2006).
or adulthoods. For example, individuals’ social status at a later date can be analyzed relative to their social status at an earlier date. In the intergenerational mobility context, which is the focus of this review, the recipient unit is usually the family, and the analysis is based on more than one generation, focusing instead on dynasties by tracking social indicators of the parent and the child. The choices of social indicators to track depend on what aspect of mobility is of interest.

Some types of mobility are especially worrisome in the development literature. These include (i) lack of total mobility in very unequal societies; (ii) asymmetrical changes in shares of income among the poorest and richest tails of the income distribution, which is a concept strongly linked to the literature of pro-poor growth; and (iii) lack of mobility in the tails of the income distribution. These movements may be caused by exclusion of the poorest groups from basic assets and human capital accumulation or by exclusion of significant segments of the population from high-earning assets, including higher education.

III. MEASURING INTERGENERATIONAL SOCIAL MOBILITY IN LATIN AMERICA

As highlighted in the previous section, there are a range of intergenerational social mobility indices and measurement methodologies. This section focuses on a subset of them used by the empirical literature in the region.

The most suitable data to empirically characterize intergenerational social mobility are long spans of panel data tracking some socio economic variable across different generations of a family dynasty. However, such type of data is usually available only for developed countries and in some cases for small local areas in developing countries (see, for example, Fuwa, 2007, for a study based on data on a village in the Philippines).

A. Earnings Mobility Elasticities

Earnings mobility elasticities are one of the most common methods used in empirical work to measure intergenerational social mobility both in Latin America and in developed countries.

Most empirical earning elasticity estimates focus on regressing log earnings levels using a simple reversion to the mean empirical model:

\[
\ln Y_{i,t} - \ln \bar{Y}_{i} = \lambda + \beta \left( \ln Y_{i,t-1} - \ln \bar{Y}_{i} \right) + \epsilon_{i,t}
\]

\[
\ln Y_{i,t} = \left( \ln \bar{Y}_{i} + \lambda - \ln \bar{Y}_{i-1} \right) + \beta \ln Y_{i,t-1} + \epsilon_{i,t}
\]

\[
\ln Y_{i,t} = \alpha + \beta \ln Y_{i,t-1} + \epsilon_{i,t}
\]

(1)

where \( Y \) represents permanent income, \( t \) is an index of generations and \( \bar{Y} \) is the average permanent income of the individual’s generation. The parameter \( \beta \) measures
Intergenerational income elasticity, \textit{i.e.}, the intergenerational income correlation. The parameter $\alpha$ in equation (1) is a fraction $(1 - \beta)$ of the log of average income of generation $t-1$ plus the log of average income growth. $\varepsilon$ reflects external characteristics that are not directly linked to parental income and $(1 - \beta)$ is a measure of the degree of intergenerational mobility.

In this model $\beta$ reflects the fraction of economic advantage that is on average transmitted across generations. The coefficient usually falls between 0 and 1. A positive $\beta$ implies an intergenerational persistence of income advantages in which higher than average parental income is associated with higher than average children’s income. For example, if $\beta$ is 0.35 and father’s earnings exceed the mean sample income of his cohort by 30 percent, the model predicts that his son’s income will exceed the mean of the son’s cohort by 10.5 percent (\textit{i.e.}, 0.35*30 percent). In this specification more mobile societies would “have” values of $\beta$ closer to 0. This simple model captures most intergenerational mobility estimates by looking at the fraction of permanent income differences between parents that on average is observed among their children in adulthood. Most elasticities found in the empirical literature for developing countries are based on ordinary least squares estimation.

\textbf{B. Caveats}

There are some caveats that are worth pointing out when estimating equation (1) to measure intergenerational social mobility. First, the estimation of the degree of intergenerational mobility using earnings or wages is subject to bias due to measurement errors. This occurs not only because of misreporting, but also because of life cycle fluctuations in earnings. As pointed out by Grawe (2003), there is evidence that increases in the variance of earnings along the life cycle lead to smaller estimates of earnings persistence when the fathers are observed later in life. On the other hand, in the son’s sample, if income is considered at the beginning of their career we know that some of the young professionals in the sample are going to have much more rapid income growth than others. This measurement error is mean-reverting and leads to an underestimation of the slope coefficient (as it compresses the variation of the dependent variable).

For this reason, it is recommended that an average of father’s income and the last available observation(s) of the son’s income be used. The most common approach to correct for life-cycle bias when these data are not available is to estimate a least-squares regression of son’s earnings on father’s earnings controlling for ages on both generations. A measure of permanent earnings for both fathers and sons can also be constructed to decrease measurement errors (Ferreira and Veloso, 2006). Differences in the variance of income across generations can also bias the estimation of intergenerational elasticity. To control for this, $\beta$ can be corrected by the ratio of standard deviation of income across generations, to estimate the intergenerational partial correlation $r$:

$$r = \frac{SD\left(\ln Y_{i,t-1}\right)}{SD\left(\ln Y_{i,t}\right)} \quad (2)$$
Early studies for the US indicated rapid mean regression in income. However, recent studies show that such values were biased downward due to measurement errors. Solon (1992) and Zimmerman (1992) use data from the Panel Study of Income Dynamics (PSID) and the National Longitudinal Survey (NLS) and argue that the corrections for measurement error would increase the estimated degree of income persistence by between 33 to 66 percent.

Another data problem that typically arises in this context is that the data set that contains information on the son’s income does not contain information on the father’s income; this problem is particularly common in data sets from developing countries. If there are other measures of social status, such as years of education, occupation or social class, a two-stage estimation is recommended. The first step consists of estimating the coefficients of empirical earnings determinants for the fathers using another data set that is compatible with the father’s generation. Then one can estimate the son’s earnings based on the predicted income of the father’s. Note that the father’s social status is correlated with his earnings and is also a good predictor of the son’s income.

Under the two-sample instrumental variables estimation or two sample least squares methodology (see Arellano and Meghir, 1992, and Angrist and Krueger, 1992) equation (1) would be estimated as:

$$\ln Y_{i,t} = \alpha + \beta (Z_{i,t-1}) \hat{\omega} + \nu_{i,t}$$

(3)

Since \(\ln Y_{i,t-1}\) in equation (1) is not observed in data set \(i \in I\), in this regression \(\hat{\omega}\) is obtained from the following regression:

$$\ln Y_{j,t-1} = Z_{j,t-1} \omega + \xi_{j,t}$$

(4)

The error term in (3) includes determinants of sons’ income not correlated with fathers’ income, biases in the estimation of \(\omega\) and unobservables from (4):

$$\nu_{i,t} = \epsilon_{i,t} + \beta \left[ Z_{i,t-1} \left( \omega - \hat{\omega} \right) \right] + \beta \xi_{i,t-1}$$

(5)

The problem arises when in the second stage the father’s social status indicator is used to predict the father’s earnings but is not added as an explanatory variable. This generates the omitted variable bias that tends to overestimate intergenerational income elasticity, underscoring the difficulty of comparing estimates of intergenerational mobility of earnings across countries.

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4 Earlier studies for the United States found a \(\beta\) around 0.2. See for example Sewell and Hauser (1975), Biebly and Hauser (1977) and Behrman and Taubman (1985).
5 Dunn (2004) refers to this technique as two-sample two-stage least squares.
C. Intergenerational Earnings Mobility Estimates in Latin America

Most studies that estimate intergenerational social mobility for the region address the lack of long-run panel data by combining datasets that capture information on children’s income and parents’ education and occupational variables with earlier labor market surveys to estimate parents’ wage regressions. In this two-stage approach the fathers’ social status is correlated with his earnings and is also a good predictor of the son’s income. Estimates for Chile, Brazil, and Peru using this two-stage approach suggest that social mobility in Latin America is lower than in developed countries, including those with the lowest levels of mobility (the United States and the United Kingdom). These estimates, as well as estimates for selected developed countries are presented in Figure 2.

Developed country estimates are drawn from Corak (2006) and are selected by the author as best comparators or adjusted to be comparable by a meta-analysis procedure to the U.S. estimate of 0.47 by Grawe (2004). The average U.S. estimate is around 0.40, while evidence for European countries and Canada shows that these countries have higher mobility (lower persistence estimates). For example, estimates for Finland and Canada are 0.13 and 0.23, respectively.

**FIGURE 2**

INTERGENERATIONAL INCOME ELASTICITIES FOR SOME LAC AND DEVELOPED COUNTRIES

Source: For developed countries, Corak (2006); for Brazil, Ferreira and Veloso (2006); for Chile, Núñez and Miranda (2006); for Peru, Grawe (2001).
For Latin America, the intergenerational elasticities reported in Figure 2 are not based on father-child pairs, but rather combine information from two data sets to generate father-child income pairs and estimate the intergenerational income elasticity using the two-sample instrumental variables estimation or two-sample least squares methodology previously discussed.

In a recent study for Chile, Núñez and Miranda (2006) use two-sample instrumental variables estimation to calculate intergenerational income elasticity, finding estimates of 0.52-0.58 for Greater Santiago and 0.52-0.67 for Chile as a whole. Their instrumental variable estimate for all sons 23-65 in Greater Santiago including potential experience, occupation and schooling to predict father’s income is the one included in Figure 2.

Ferreira and Veloso (2006) estimate the degree of intergenerational mobility of wages for Brazil. They estimate equation (1) by a two-sample instrumental variable method and find that the $\beta$ coefficient for Brazil ranges from 0.58 to 0.66 depending on the controls. In another study for Brazil, Dunn (2004) calculates the intergenerational persistence of earnings and finds a similar value of 0.69.$^6$

The estimates for Latin American and Caribbean countries presented in Figure 2 are subject to two sources of bias when compared with the U.S. estimates in Grawe (2004). First, estimates in studies with data only from urban areas or capital cities are likely biased downward, as they exclude less mobile rural and isolated areas that typically show lower long-term incomes than urban areas. Second, an upward bias may arise from the fact that son’s cohorts cover longer spans than in developed countries. The evidence from Chile shows that, either due to increased mobility or to life-cycle effects on earnings, mobility seems to be higher for younger cohorts (see Table 1).

**TABLE 1**

ESTIMATES FOR INTERGENERATIONAL MOBILITY ELASTICITIES FOR DIFFERENT CHILD COHORTS IN CHILE

<table>
<thead>
<tr>
<th>Cohort</th>
<th>Parent-Child Labor Income Elasticity</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-34</td>
<td>0.46</td>
</tr>
<tr>
<td>35-44</td>
<td>0.52</td>
</tr>
<tr>
<td>45-54</td>
<td>0.65</td>
</tr>
<tr>
<td>55-65</td>
<td>0.58</td>
</tr>
<tr>
<td>Full Sample</td>
<td>0.54</td>
</tr>
</tbody>
</table>

*Source: Núñez and Miranda (2006).*

$^6$ Dunn (2004) uses father’s education as an instrument. As pointed out before, this procedure causes an upward bias in the estimates.
1. **Nonlinear Earnings Mobility Estimates – Rank Mobility**

Intergenerational earnings elasticities assume that the income advantage that parents transmit to their offspring is linear across the distribution of parents’ income. This assumption, however, can be restrictive. High levels of social immobility at the lower tails of the parents’ children’s income distributions (i.e., high intergenerational transmission of the income disadvantage of the poorest parents) can be associated with exclusion from basic services and markets (due to geographical isolation or segregation) or with labor market discrimination. Likewise, low mobility at the upper tail may reflect exclusion of the majority of the population from high income earning opportunities (higher education). Credit constraints tend to decrease mobility, since investment in children usually depends on family resources. This may explain why persistence is higher at the upper end of the conditional wage distribution.

The degree of rank mobility analyzed through transition matrices is recognized in the literature as the first methodological way of estimating mobility, even before mean regression. When data are represented in a transition matrix, much information is compressed into brackets—the principal shortcoming of this approach, since much information is thereby lost. For example, consider a transition matrix that analyzes income levels. Income is a cardinal measure, but in order to be displayed as a transition matrix it becomes an ordinal measure (income ranks), reducing the information into income groups while the data have many income levels.

The reading of a transition matrix, however, is straightforward, as the matrix shows the extent to which the distribution of children’s status depends on their parents’ status. Table 2 below shows transition matrices for several developed countries and two Latin America countries: Brazil and Chile.

Transition matrices for Brazil suggest a strong intergenerational persistence of wages at both ends of the son’s conditional wage distribution. This implies that wage mobility is low at both tails of the distribution. In the case of Brazil, the probability that the sons of the fathers in the lowest quintiles will remain there is 35 percent while the probability that the sons of the fathers in the richest quintile will remain in the richest quintile is 43 percent (Ferreira and Veloso, 2006). The lack of mobility at the tails of the income distribution may reflect two sources of exclusion: the lack of opportunity for the children of the poor to acquire better skills and improve their employment prospects and the reproduction of socioeconomic privileges among the children who are “well-off”.

Additionally, the evidence shows that there is more upward mobility from the bottom of the earnings distribution than downward mobility from the top. This means that there are more chances for the poor to became rich than for the rich to become poor. In the case of Brazil, the estimates of Ferreira and Veloso (2006) show that the probability that an individual will move from the lowest wage category to the highest is 65 percent while the probability of falling from the highest to the lowest wage category is around 57 percent. The same pattern also holds for the United States (Zimmerman, 1992) and the United Kingdom (Dearden et al., 1997).
TABLE 2

COMPARATIVE EVIDENCE ON INCOME PERSISTENCE BETWEEN BOTTOM AND TOP QUINTILES AND QUARTILES*

<table>
<thead>
<tr>
<th>Country</th>
<th>Study</th>
<th>Bottom Quartile</th>
<th>Bottom Quintile</th>
<th>Top Quartile</th>
<th>Top Quintile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developed Countries</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>Fortin and Lefebvre (1998)</td>
<td>n.d.</td>
<td>n.d.</td>
<td>0.32-0.33</td>
<td>n.d.</td>
</tr>
<tr>
<td>UK</td>
<td>Blanden et al. (2005)</td>
<td>0.37</td>
<td>N.D</td>
<td>0.40</td>
<td>n.d</td>
</tr>
<tr>
<td>US</td>
<td>Peters (1992)</td>
<td>n.d.</td>
<td>n.d.</td>
<td>0.36-0.40</td>
<td>n.d</td>
</tr>
<tr>
<td></td>
<td>Grawe (2001)</td>
<td>0.40</td>
<td>n.d.</td>
<td>0.41</td>
<td>n.d</td>
</tr>
<tr>
<td>Latin American Countries</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brazil</td>
<td>Ferreira and Veloso (2006)</td>
<td>n.d.</td>
<td>0.35</td>
<td>n.d.</td>
<td>0.43</td>
</tr>
<tr>
<td>Chile</td>
<td>Núñez and Miranda (2006)</td>
<td>0.39^a-0.50</td>
<td>0.30^a-0.37</td>
<td>0.54-0.55^a</td>
<td>0.47-0.57^a</td>
</tr>
</tbody>
</table>

n.d. : No data.
* : Transition matrices between father and child position in income distribution.
^a : Estimate comes from predicted income distribution.

TABLE 3

INCOME PERSISTENCE IN BOTTOM AND TOP QUINTILES BY RACE FOR BRAZIL

<table>
<thead>
<tr>
<th>Population Group</th>
<th>Bottom Quintile</th>
<th>Top Quintile</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>35</td>
<td>43</td>
</tr>
<tr>
<td>Blacks</td>
<td>47</td>
<td>23</td>
</tr>
<tr>
<td>Whites</td>
<td>25</td>
<td>50</td>
</tr>
</tbody>
</table>

Source: Authors’ calculations based on Ferreira and Veloso (2006).

Transition matrices also provide evidence on different sources of immobility along the income distribution by population groups. Evidence from Brazil (Table 3) shows that, while lower-tail immobility is particularly high among excluded groups such as Afro-descendants, upper tail immobility is more prevalent across non-excluded groups such as whites.
Upper-tail immobility is usually linked to low access to high education opportunities or to segmentation in labor markets. Institutions such as credit markets, government loan guarantee programs, and public schooling are important in determining the degree of income mobility. Ferreira and Veloso (2006) present nonlinear estimates on the persistence of wages. The degree of persistence is 0.62 for the sons of fathers with below-median wages, but much lower, 0.53, for fathers with above-median wages. This difference is consistent with the borrowing constraints theory, since rich families are less likely to be constrained. Andrade et al. (2004), also for Brazil, test whether the presence of borrowing constraints affects the degree of intergenerational persistence, and the evidence suggests that borrowing constraints may be an important determinant of intergenerational mobility in Brazil.

2. Other Estimations

When considering other mobility estimations, it is important to stress the difference between traditional income distribution dynamic analysis and social mobility analysis. Income distribution dynamics analysis looks at income distribution changes over time and their determinants. Social mobility analysis also looks at these movements but stresses the need to track the dynamics of income of each person (or group of persons sharing certain characteristics). When certain groups of the population are large enough (such as indigenous peoples, rural populations, among others) mobility analysis can be performed using the tools of income distribution dynamics, tracking down income shares and position of these groups through representative comparable cross-sectional data.

A recent application of micro-simulation techniques by Bourguignon et al. (2003) analyzes access to opportunities in Brazil by measuring the proportion of income inequality that is explained by differences in socioeconomic circumstances such as parental schooling, parents’ occupation and race. They found that 20 percent of inequality in Brazil (as measured by the Gini coefficient) is due to inequality of initial circumstances. Núñez and Tartakowsky (2006) find similar magnitudes for Chile.

Benavides (2003) analyzes current trends of equality of opportunities in urban Peru. Specifically, the study focuses on the labor markets opportunities of sons compared to those of fathers and concludes that, even though the country has experienced significant changes in migration, expansion of formal education and labor markets, the expected increase in equality of opportunities has largely been neutralized by the lack of change in economic and cultural relations. While it appears to have a considerable amount of dynamism among the medium-low and lower social classes, there are not significant movements among the high and very low social classes.

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7 Grawe (2001) points out that additional tests are needed to confirm the hypothesis that the degree of persistence declines with father’s wages are due to credit constraints. For the Brazilian case see Andrade et al. (2004).
IV. PERCEPTIONS OF INTERGENERATIONAL SOCIAL MOBILITY IN LATIN AMERICA

Given that people respond to incentives, perceptions of social mobility and meritocracy are fundamental for the long-run prospects of economies and societies. Rational individuals will have little incentive to work hard and invest in human and physical capital if they do not believe that they have good chances of advancing in society. Moreover, individuals who feel trapped in a situation with no prospect for improvement have fewer disincentives to engage in dysfunctional and antisocial behavior such as substance abuse and crime, since they have little or nothing to lose. At the same time, without investment in human capital and hard work, chances are reduced for these individuals to move upward, which means that the poor will remain poor.

FIGURE 3
SOCIAL MOBILITY AND INEQUALITY IN LATIN AMERICA

Note: Statistics for Argentina and Uruguay are based on urban samples only.
Source: Andersen (2000).

Figure 3 shows the relationship between social mobility and income inequality (measured with a Gini coefficient adjusted to be comparable among countries). As argued by Andersen (2000), there is no clear relationship between social mobility and inequality. However, Guatemala, Ecuador, and Brazil are among the most “unfair” countries, displaying high inequality and low mobility.

Under these circumstances, it is hardly surprising that Latin Americans are generally pessimistic about their prospects for mobility and generally do not believe
that their societies are meritocratic. An analysis of the Latinobarometer opinion survey by Gaviria (2006) presents some of the more telling statistics from this annual poll of 17 countries in the region. As shown in Table 4, 74.1 percent of individuals surveyed in 2000 indicated that opportunities to overcome poverty are unequal, and 63.6 percent thought that poverty is not a consequence of lack of hard work. Conversely, 71.5 percent of the survey sample attributed success to personal connections.

**TABLE 4**

PERCEPTIONS OF SOCIAL MOBILITY IN LAC

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Opportunities to overcome poverty</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Same opportunities for all</td>
<td>25.9</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Unequal opportunities</td>
<td>74.1</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Causes of poverty</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lack of hard work</td>
<td>36.5</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Other</td>
<td>63.6</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Success depends on personal connections</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>71.5</td>
<td>71.3</td>
<td>76.4</td>
</tr>
<tr>
<td>No</td>
<td>28.5</td>
<td>28.7</td>
<td>23.6</td>
</tr>
<tr>
<td>Hard work leads to success</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>46.2</td>
<td>45.1</td>
<td>44.4</td>
</tr>
<tr>
<td>No</td>
<td>53.8</td>
<td>54.9</td>
<td>55.6</td>
</tr>
</tbody>
</table>

*Note:* Values represent percentages for each response among Latinobarometer respondents in the year specified.


Figure 4 presents perceptions of past and future mobility. According to the figure, Latin Americans believe that the past generation (i.e., their parents) was somewhat better off than the current generation. For perceptions of “past” mobility, the line in the figure represents the difference between how one perceives oneself compared to one’s parents. On the other hand, for “future” mobility, the line shows the difference between the social status of the next generation (one’s child) compared to one’s own social status. As the figure indicates, there are expectations among Latin Americans of upward social mobility for the future generation.

V. WHAT MAY INFLUENCE SOCIAL MOBILITY IN LATIN AMERICA?

The level of intergenerational social mobility in a society is determined by a wide range of factors. This section collects evidence on empirical work that shed light on factors that might be slowing down social mobility in the region. After listing a set of known influences that are determinants of social mobility, the empirical evidence on other
culprits—inequality of opportunity, education, cognitive development, urbanization and regional development, and labor markets and macroeconomics—are also discussed.

FIGURE 4
PERCEPTIONS OF PAST AND FUTURE MOBILITY

Note: Subjective social mobility is the difference, on a scale of 1 to 10, between current generation’s economic status and previous generation’s economic status.


Known influences on the determinants of intergenerational social mobility include the following:

i. **Variance of effort.** Some individuals work harder, for longer hours, or more effectively than others. Effort can be affected by many other factors, however, and measurements and perceptions of effort can be affected by observers’ biases.

ii. **Degree of inherited ability.** Separating inherited ability from other factors poses an ongoing challenge, and both social science and biology continue to address the roles of “nature” and “nurture”. Nonetheless, the role of inherited abilities cannot be disregarded in areas of endeavor such as music and sports, and real if less obvious inherited abilities may be expected to influence other activities as well.
iii. Importance of family background. The term “family background” encompasses a wide variety of factors such as parental education, parental income, and cultural background, factors that can be reinforced across generations by assortative matching (i.e., marriage and parenthood among individuals of the same social class and/or income level). These factors can influence cognitive and non-cognitive abilities, human capital accumulation, and employment opportunities. The means for transferring advantages and disadvantages across generations encompass such disparate factors as prenatal and infant nutrition, home environment and education, and access or lack of access to social networks.

iv. Market failures (especially in financial markets) and credit constraints. Families whose members cannot borrow to finance education, business start-ups and expansions, or housing remain “stuck” from one generation to the next in a suboptimal equilibrium of low earnings and investment.

v. Exclusion from the supply of basic services and access to markets. Families subject to geographical isolation or various forms of discrimination are likely to have access to a low quantity and quality of services, including education and basic infrastructure, and enjoy limited access to labor and other markets.

vi. Segmentation in job creation in each occupational stratum. Labor market segmentation can reduce mobility, as individuals belonging to excluded groups have less access to clusters of jobs characterized by higher job quality, earnings benefits and union coverage, and also are subject to less involuntary part-time employment.

vii. Lack of safety nets and compensatory programs. Families who lack the protection of unemployment insurance and social security mechanisms must restrict their consumption and investment in response to shocks, including unemployment, illness, and natural disasters. The resulting missed opportunities for education, savings, and investment have ripple effects that can extend for generations.

A. Determinants of Intergenerational Earnings Mobility in Developed Countries

Several studies have rigorously examined determinants of and changes in intergenerational earnings mobility in developed countries, especially the United States and the United Kingdom, which have lower levels of mobility than other developed countries. In the case of the United Kingdom there is a documented decrease in social mobility for cohorts born in 1970 compared to those born in 1958 (Blanden et al., 2005; Blanden et al., 2007).

The studies for the United Kingdom and other developed countries decompose the relationship estimated with equation (1) to take into consideration the effects of parental income on the different determinants of children income, such as education and non-cognitive abilities. These decompositions run an earnings regression for children income on children education and non-cognitive abilities:

\[
\ln Y_{i,t} = \phi + \delta_{\text{non-cog},i,t} + \pi_{\text{educ},i,t} + \mu_{i,t}
\]  \hspace{1cm} (6)

They also run regressions of the explanatory variables on parental income:
intergenerational social mobility in latin america:… 23

(7)

\[ \text{non-cog}_{i,t} = \phi^{\text{non-cog}} + \rho \ln Y_{i,t-1} + \mu_{i,t}^{\text{non-cog}} \]
\[ \text{educ}_{i,t} = \phi^{\text{educ}} + \gamma \ln Y_{i,t-1} + \mu_{i,t}^{\text{educ}} \]

In this model it is possible to decompose the intergenerational elasticity found in equation (1) into:

\[ \beta = \delta \rho + \pi \gamma + \frac{\text{cov}(u_{i,t}, \ln Y_{i,t-1})}{\text{var}(\ln Y_{i,t-1})} \]

This model shows how to identify and measure the importance of different determinants of the intergenerational income elasticity. The evidence for UK using this specification finds that the reduction in mobility experienced in recent years has been caused by an increasing relationship between family income and educational attainment (Blanden et al., 2005; Blanden et al., 2007). Even though the schooling gap between children of rich and poor families have been decreasing for secondary schooling and below, it has been widening for higher education.

Trying to rigorously estimate the influence of each one of these factors in Latin America with these methods is almost impossible due to lack of data. In this section we focus on a series of factors that are especially relevant for the region. These include the role of education and the effects of the expansion of education coverage and education opportunities, urbanization and certain patterns of regional development, the effects of recent labor market developments (macroeconomic stabilization, globalization and technical change), and social ills and the effects of non-cognitive factors. Before analyzing these factors we briefly summarize the recent literature on inequality of opportunity, which is closely linked with intergenerational mobility.

1. Inequality of Opportunities

Higher intergenerational mobility is expected to decrease the influence of socioeconomic background on adulthood economic achievement. As Friedman (1962) points out, income inequality is much more of a concern in a rigid system in which families stay in the same position each period than societies that have the same degree of inequality but also have greater mobility, equality of opportunity, and dynamic change. Ferreira and Gignoux (2008) propose a framework and estimate inequality of opportunities for six Latin America countries using three indicators. The authors estimate “opportunity profiles” which rank social groups and contain information on how circumstances play a role in determining poverty outcomes.

Table 5 presents a set of Ferreira and Gignoux inequality of opportunity estimates. Their estimation isolates the percentage of inequality in an outcome variable (labor income, household per capita income) due to six “circumstance” variables (gender, race or ethnicity, place of birth, mother’s education, father’s education and father’s occupation). These estimates are directly related to intergenerational social mobility.
as they link parental and child outcomes. In this estimates, as with those of social mobility, Brazil stands out as a country with high levels of inequality of opportunity and low social mobility.

Paes de Barros et al. (2008) also compute indices of children’s inequality of opportunities for a group of Latin America countries. Those indices consider the distribution of access to a set of basic services, including electricity, water and sanitation and electricity.

TABLE 5
ESTIMATES FOR INEQUALITY OF OPPORTUNITIES

<table>
<thead>
<tr>
<th></th>
<th>Total Inequality (Mean Log Deviation)</th>
<th>Inequality Explained by Unequal Opportunities (%)</th>
<th>Inequality due to Unequal Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Individual Labor Income</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guatemala</td>
<td>0.789</td>
<td>0.293</td>
<td>0.230</td>
</tr>
<tr>
<td>Brazil</td>
<td>0.616</td>
<td>0.349</td>
<td>0.215</td>
</tr>
<tr>
<td>Ecuador</td>
<td>0.638</td>
<td>0.256</td>
<td>0.163</td>
</tr>
<tr>
<td>Peru</td>
<td>0.675</td>
<td>0.212</td>
<td>0.143</td>
</tr>
<tr>
<td>Panama</td>
<td>0.572</td>
<td>0.245</td>
<td>0.140</td>
</tr>
<tr>
<td>Colombia</td>
<td>0.608</td>
<td>0.203</td>
<td>0.123</td>
</tr>
<tr>
<td><strong>Household per Capita Income</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guatemala</td>
<td>0.619</td>
<td>0.373</td>
<td>0.231</td>
</tr>
<tr>
<td>Brazil</td>
<td>0.695</td>
<td>0.329</td>
<td>0.229</td>
</tr>
<tr>
<td>Panama</td>
<td>0.630</td>
<td>0.346</td>
<td>0.218</td>
</tr>
<tr>
<td>Peru</td>
<td>0.557</td>
<td>0.292</td>
<td>0.163</td>
</tr>
<tr>
<td>Colombia</td>
<td>0.559</td>
<td>0.250</td>
<td>0.140</td>
</tr>
<tr>
<td>Ecuador</td>
<td>0.417</td>
<td>0.290</td>
<td>0.121</td>
</tr>
</tbody>
</table>

Note: Non-parametric estimates based on labor income, per capita household income.  
Source: Authors’ calculations based on Ferreira and Gignoux (2008).

2. **Educational Intergenerational Mobility**

Many Latin American countries have expanded educational coverage and access to formal education for all social levels. Nonetheless, quality matters as well, and the low quality of public education, together with the opportunity cost of going to school, results in high failure and dropout rates in (lower) secondary education. Peru, for example, has undergone a massive expansion of its educational system. Benavides (2004) argues, however, that the country is experiencing only a weak version of meritocracy, with little benefit for social mobility; education, though directly linked with job placement, is not completely independent from social origins. Furthermore, as noted by Escobar et al. (1998), there are significant differences in access to education among social classes in Peru, especially in rural areas.
Although data remain scarce for Latin America, some researchers have attempted to study social mobility by using educational indicators. If family background is important in determining educational outcomes, one can argue that low social mobility results from the role of family background in providing opportunities for obtaining higher education. Even though educational mobility is only one of the channels through which earnings mobility is transmitted across generations, it is one of the main determinants of social mobility in meritocratic societies.

Not surprisingly, evidence from the region shows that children from high-income and more-educated parents are more likely to do better in life. Among the most widely used indicators of intergenerational educational mobility are parent-child schooling elasticity estimates (the correlation coefficient between children and parent educational attainment). All available coefficients for Latin America countries, with the exception of Chile, are higher than those for developed countries, including those for the United States (see Table 6). Evidence from Chile also finds that the schooling elasticity by cohort has been decreasing, which implies greater mobility for younger cohorts (Table 7).

**TABLE 6**

ESTIMATES FOR SCHOOLING ELASTICITIES

<table>
<thead>
<tr>
<th>Country/Source</th>
<th>Elasticity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Developed Countries</strong></td>
<td></td>
</tr>
<tr>
<td>Germany/Grawe (2001)</td>
<td>0.43</td>
</tr>
<tr>
<td>US/Grawe (2001)</td>
<td>0.26</td>
</tr>
<tr>
<td>US/Behrman et al. (2001)</td>
<td>0.35</td>
</tr>
<tr>
<td>UK/Grawe (2001)</td>
<td>0.19</td>
</tr>
<tr>
<td><strong>Latin America</strong></td>
<td></td>
</tr>
<tr>
<td>Brazil/Behrman et al. (2001)</td>
<td>0.70</td>
</tr>
<tr>
<td>Chile/Núñez and Miranda (2006)</td>
<td>0.21</td>
</tr>
<tr>
<td>Colombia/Behrman et al. (2001)</td>
<td>0.70</td>
</tr>
<tr>
<td>Mexico/Behrman et al. (2001)</td>
<td>0.50</td>
</tr>
<tr>
<td>Peru/Grawe (2001)</td>
<td>0.60</td>
</tr>
<tr>
<td>Peru/Behrman et al. (2001)</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**TABLE 7**

SCHOOLING ELASTICITIES BY COHORT IN CHILE

<table>
<thead>
<tr>
<th>Child Cohort</th>
<th>Parent – Child Schooling Elasticity</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-34</td>
<td>0.15</td>
</tr>
<tr>
<td>35-44</td>
<td>0.15</td>
</tr>
<tr>
<td>45-54</td>
<td>0.24</td>
</tr>
<tr>
<td>55-65</td>
<td>0.41</td>
</tr>
<tr>
<td>All Sample</td>
<td>0.21</td>
</tr>
</tbody>
</table>

Furthermore, evidence from Latin America shows that children of high income and more educated parents are more likely to do better in life. Behrman et al. (1998) use regressions that consider schooling gap as the dependent variable and family background variables as explanatory variables. Analyzing 28 countries from 1980 to 1996 and conclude that Chile, Argentina and Uruguay are the most mobile countries while Brazil is the least mobile.

Dahan and Gaviria (2001) construct an intergenerational social mobility index that controls for all influences that are common in children in the same family. They measure the influence of family background indirectly by comparing the correlation in schooling gaps between siblings to the correlation of schooling gaps between random adolescents. One limitation of this methodology is small sample size, since it requires at least two siblings in the relevant age range for each family. The study covers 16 countries in the region and the United States and the findings indicate that the correlation is between 1.8 to 3 times higher in Latin America than in the United States.

Andersen (2002) analyzes the importance of family background in determining the education of teenagers for 18 countries in the region. Following Behrman et al. (1998), the author uses schooling gaps (years of missing education) as an indicator of opportunities and runs schooling gap regressions to analyze the importance of family background. Figure 5 shows Andersen’s estimates. Her findings indicate that Chile, Argentina, Uruguay and Peru are countries with higher intergenerational social mobility, while Guatemala and Brazil are among the least mobile.

Behrman et al. (2001) examine the intergenerational transmission of schooling in four Latin America countries and the United States. Their results indicate that Brazil and Colombia are less mobile than Mexico and Peru. Estimates are displayed in Figure 6. Figure 7 shows the male and female estimates. The estimates are higher for men in Brazil and Colombia indicating that women are more mobile in these two countries. On the other hand, men tend to be more mobile in the United States, Mexico and Peru. These estimates indicate that for United States and Brazil gender does not seem to play an important role.

The results of Behrman et al. (2001) are corroborated by Gaviria (2006) using data from Latinobarometer and the US General Social Survey (see Figure 8).

In the case of urban Mexico, Binder and Woodruff (2002) argue that there is mixed evidence on intergenerational educational mobility. On one hand, the decrease in intergenerational educational correlation among cohorts presented by Binder and Woodruff (2002) in Table 8 suggests a rise in intergenerational mobility over time. On the other hand, the downward trend is reversed between the third and fourth cohorts, indicating that this trend slowed during the 1980s. This table further shows the proportion of children who have more schooling than their parents, another measure of intergenerational mobility. An interesting pattern is found in the gender comparison for urban Mexico, where older women have greater intergenerational mobility when compared to men.

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8 Measure of schooling gap = (years of education if the child starts school at the right age and changes grades each year) - (actual years of education).
Figure 5

Andersen’s estimates for social mobility (13-19 year-olds)

Note: Point estimates and 95% confidence interval. Statistics for Argentina and Uruguay are based on urban samples only.
Source: Andersen (2002).
The trends in the distribution of intergenerational educational mobility for Mexico show that parent’s education plays an important role in children’s education. For example, the upper secondary completion probability for the sons of less educated parents rises from 0.15 in the first cohort to 0.34 in the third and fourth cohorts, while the corresponding probabilities for sons of educated parents are 0.79 for the first cohort and 0.80 and 0.84 for the third and fourth cohorts, respectively.

Returns to education are very high in Latin America, which implies that differences in schooling eventually translate into differences in earnings. In Brazil, for example, there is evidence that returns to education increase with parental schooling (Lam and Schoeni, 1993), which is linked to family connections and better employment opportunities. This indicates that intergenerational correlation of earnings can be even higher than that of schooling.

In order to capture non-linearities in education, Behrman et al. (2001) estimate transition matrices for Brazil and Colombia. Their results indicate very low educational mobility at the lower ends of the distribution (Table 9).
FIGURE 7
GENDER DIFFERENCES IN INTERGENERATIONAL MOBILITY (URBAN POPULATION)

Source: Behrman et al. (2001).

FIGURE 8
EDUCATION MOBILITY IN LATIN AMERICA AND THE US

# TABLE 8

MEASURES OF INTERGENERATIONAL SCHOOL MOBILITY

<table>
<thead>
<tr>
<th>Country</th>
<th>Child’s Characteristics</th>
<th>Father-Child Educational Attainment Correlations</th>
<th>Children Exceeding Parents’ Education Level (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Men</td>
<td>Women</td>
</tr>
<tr>
<td><strong>Mexico, 1994</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Cohorts</td>
<td>23-69 yrs. of age</td>
<td>0.498</td>
<td>0.528</td>
</tr>
<tr>
<td>Cohort 1</td>
<td>50-69 yrs. of age</td>
<td>0.569</td>
<td>0.588</td>
</tr>
<tr>
<td>Cohort 2</td>
<td>40-49 yrs. of age</td>
<td>0.481</td>
<td>0.538</td>
</tr>
<tr>
<td>Cohort 3</td>
<td>30-39 yrs. of age</td>
<td>0.425</td>
<td>0.491</td>
</tr>
<tr>
<td>Cohort 4</td>
<td>23-29 yrs. of age</td>
<td>0.491</td>
<td>0.493</td>
</tr>
<tr>
<td>Cohort 5</td>
<td>Eventual schooling</td>
<td>0.497</td>
<td>0.830</td>
</tr>
<tr>
<td><strong>Germany, 1984</strong></td>
<td></td>
<td>0.237</td>
<td>0.016</td>
</tr>
<tr>
<td><strong>Malaysia, 1988</strong></td>
<td></td>
<td>0.194</td>
<td>0.226</td>
</tr>
<tr>
<td><strong>Panama, 1983</strong></td>
<td>18 or more yrs., living with father</td>
<td>0.570</td>
<td>n.a.</td>
</tr>
<tr>
<td></td>
<td>Father of above</td>
<td>0.680</td>
<td>n.a.</td>
</tr>
<tr>
<td><strong>United States, 1984</strong></td>
<td>20-30 yrs. of age</td>
<td>0.418</td>
<td>0.402</td>
</tr>
</tbody>
</table>

**Note:** Measures for Mexico use sampling weights. Values for Cohort 4 (eventual schooling) are calculated using ascribed schooling attainments for those still in school as follows: 12 yrs. of schooling are ascribed to students with fewer than 12 yrs. of schooling. n.a. = Not Available.

**Source:** Binder and Woodruff (2002).
In a recent study, Conconi et al. (2008) compute three intergenerational educational mobility indexes for Latin American countries at the beginning of the 1990s and 2000s. The authors highlight that when comparing both points in time, the results indicate an overall increase in intergenerational educational mobility in Latin America. Brazil, Chile and Venezuela are among the countries that became more mobile while Uruguay and Colombia are going in the opposite direction (a reduction in the estimated mobility indexes). The paper also highlights that the countries that experienced a bigger drop in poverty and inequality indicators were those that experienced a concomitant relative increase in intergenerational mobility indicators.

3. Cognitive Development

While most studies on the relationship between education and intergenerational social mobility consider years of schooling, evidence for the region increasingly shows important gaps in education quality and cognitive outcomes between high and low-income children.

In the discussion of intergenerational social mobility, especially its relationship with social exclusion, researchers and policymakers are devoting increasing attention to “equality of opportunities” in order to pinpoint the causal processes determining...
the long-term labor market outcomes of children. The understanding of the real meaning of generational earnings mobility in the context of equality of opportunities offers an overall indicator of children’s social inclusion. In practical terms, there is a need for measurements of the extent to which children have equal opportunities in life regardless of their social status or family background. Children start building the bases for human capital accumulation and development of cognitive abilities in early childhood. Thus, one of the key channels through which parental income affects human capital accumulation and productive capacity is on its effects on early childhood development.

Substantial research has been carried out in developed countries on early childhood development outcomes and their determinants, as well as the impacts of early childhood development programs on child, adolescent and adult outcomes. However, evidence from developing countries, and in particular Latin America, is scarce and drawn from only a few countries. Schady (2006), after reviewing the studies on early childhood development in Latin America, concludes that there appears to be large developmental deficits among Latin American children and a steep gradient by socioeconomic status that increases with age. In terms of the effectiveness of interventions, the evidence points to the limited effectiveness of conditional cash transfer programs, but large returns to center-based child care interventions.

Many studies have found that household economic resources are important determinants of children’s health. Additionally, Rubalcava and Teruel (2004) find that maternal cognitive ability is an important factor in improving children’s height, even when controlling for parental age, parents schooling, income and mother’s height. Early childhood health in turn is linked with future children’s schooling. Mayer-Foulkes (2004) finds evidence for Mexico showing that, controlling for parental education, income and wealth, early childhood health and nutrition are strongly associated with the probability of continuing schooling later in life.

Early childhood development also affects adult productive through the effects of infant malnutrition and early infection on cognitive ability and various adult ailments. These include chronic bronchitis, acute appendicitis, asthma, Parkinson’s disease, multiple sclerosis, chronic pulmonary disease, cardiovascular disease, coronary heart disease, and stroke (see review in Mayer-Foulkes, 2004). Finally, recent studies in Guatemala show significant effects of improved early-life nutrition after 35 years on adult cognitive skills, adult male wage rates, and anthropometric indicators including birth weight of women’s children (Hoddinott et al., 2008; Maluccio et al., 2009; Behrman et al., 2008).

Education and credit markets are key areas for policy action. The determinants of social mobility discussed above suggest that education and intergenerational credit constraints are “the” main determinants of the degree of income persistence. While the relationship between father’s and son’s success might be linked through inherited ability, access to high-quality formal education that begins at an early age

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9 See, for example, Corak (2006) and Roemer (2004).
is crucial in breaking the intergenerational transmission of poverty and promoting social mobility.

4. **Urbanization and Regional Development**

Recent research on both intergenerational social mobility and social exclusion has not emphasized the importance of “spatial” issues (see, for example, Cass et al., 2005). Nonetheless, exclusion that results from a combination of urbanization, distance, inadequate transport and limited means of communications reinforces mobility traps in certain regions. While an array of variables and dimensions must be considered in urbanization and regional development, some are evident only once excluded groups become “visible” and one has information on the range of activities to which individuals need access. It then becomes apparent that urbanization and regional development may prevent individuals from participating in the economic, political and social life of their own communities.

The lower dynamism of rural and isolated poor areas should imply lower income mobility among the populations and the children/parent pairs living in them. As such, countries with higher percentages of population living in these areas should also have lower levels of income mobility. Urbanization and increased opportunities for migration from poorer areas should therefore promote higher mobility. On the other hand, regional development that is concentrated in certain regions and is not accompanied by adequate migration opportunities into these regions from the poorest areas should be associated with decreased social mobility.

The development pattern in Brazil, for instance, followed “conservative modernization”, a pattern characterized by the non-integration of large segments of the population into modern sectors of the economy, society and political system. This pattern’s effects extend to regional development, with distinct mobility patterns according to regional development and urbanization. This pattern seems to translate into lower social mobility in less developed regions. Ferreira and Veloso (2006) find that income persistence varies substantially across regions (Table 10). The highest value is found in the poorest area, the Northeast, and the smallest in the Southeast. In addition, while in the Southeast there is high income persistence in the top quantile of father’s income (a 47 percent probability that the son of a father in the highest income quintile will remain in that quintile), in the Northeast the weight of income immobility is at the bottom of the distribution (a 58 percent probability that the son of a father in the lowest income quintile will remain in that quintile).

Figure 9 depicts the positive relationship between intergenerational social mobility and urbanization rates. This positive relationship may arise from the fact that for highly urbanized countries, it is easier to promote social mobility through access to education and labor market opportunities when children and workers are clustered in urban areas. Migrants to urban centers, especially those from isolated

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10 See, for example, Gacitúa-Marió & Woolcock (2005).
TABLE 10

INTERGENERATIONAL PERSISTENCE OF WAGES IN BRAZIL BY REGION

<table>
<thead>
<tr>
<th>Region</th>
<th>Elasticity</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
<td>0.58</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.73</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.54</td>
</tr>
<tr>
<td>South</td>
<td>0.62</td>
</tr>
<tr>
<td>Midwest</td>
<td>0.55</td>
</tr>
</tbody>
</table>


FIGURE 9

SOCIAL MOBILITY AND URBANIZATION RATES

Note: Data for Argentina and Uruguay are based on urban samples only.
Source: Andersen (2000).

rural areas, tend to have broader economic and human capital opportunities than their parents, which should translate into upward social mobility. It is important to take into account, however, that urbanization is not a panacea, as it does not necessarily help all population groups. Using a social mobility index based on educational attainment levels of teenagers in 18 countries, Andersen (2001) finds that, with the exception of Bolivia, urban teenagers are not necessarily more mobile than their rural counterparts; that is, rural and urban teenagers are affected in approximately the same way by family background.
5. **Labor Market Developments: Macroeconomic Stabilization, Globalization and Technical Change**

As seen in both developing and developed countries, the most important determinant of intergenerational social mobility is the human capital stock that individuals bring to the labor market. However, labor market dynamics can also alter the level of social mobility, as the returns of human capital vary with changes in the supply and demand for certain groups of workers, either strengthening or weakening the effect of greater education opportunities on mobility. In addition, discrimination and labor market segmentation can lower social mobility, even in countries with ample access to education opportunity, by reducing the labor returns of educated but excluded groups.

With some exceptions, the labor market in the region suffered from stagnant wages, rising wage inequality—mostly associated with high returns to education—as well as increasing levels of unemployment. There are many possible explanations for this phenomenon, including macroeconomic volatility, globalization and skill-biased technological change. Economists generally maintain, however, that wages have grown slowly primarily because productivity has not increased, especially for low-skilled workers.

How can we gauge the effects of these changes in labor markets on social mobility? The intergenerational studies available for the region and the studies on distribution of income dynamics can shed some light on the possible effects of labor market dynamics in social mobility. Since the early 1990s, the overall dynamic of inequality in the region has proven diverse. Inequality has decreased in Brazil, Colombia, Panama and Uruguay, increased in Argentina, Ecuador and Costa Rica and remained relatively constant in Mexico and Chile (see Figure 10). On the other hand, wage inequality has increased in the majority of countries in the region, decreasing only in Brazil and Colombia, and remaining somewhat unchanged in Argentina, Chile and Guatemala (see Figure 11). Differences in the dynamics between wage inequality and total per capita household income inequality usually result from household demographics (assortative matching and fertility), female labor force participation, and transfers (government transfers and remittances). We will focus on the determinants of wage inequality in the rest of this subsection.

Under what conditions will changes in inequality, especially in wage inequality, translate into changes in intergenerational social mobility? This will clearly depend on factors affecting labor mobility and how they affect different groups of child-parent pairs. Data limitations prevent us from estimating these relationships, but several hypotheses can be advanced on the basis of short-run panel data and distribution dynamics.

With respect to returns to education, under low levels of intergenerational mobility in educational attainment, a widening gap of returns to skills should increase inequality and reduce intergenerational social mobility as the advantages in labor market outcomes of education for child/parent pairs increase over time. As intergenerational educational mobility increases, the effects of widening gaps in returns to skill in intergenerational social mobility ameliorate (i.e., there are more pairs of low-educated parent/high-educated children that benefit from increased returns).
FIGURE 10

HOUSEHOLD INCOME INEQUALITY IN SELECTED LATIN AMERICAN COUNTRIES, 1990-2005


FIGURE 11

WAGE INEQUALITY IN LATIN AMERICAN COUNTRIES, 1990 AND 2002

Note: Wage inequality is measured as the variance of the logarithm of hourly wages in urban areas. Source: ECLAC (2006).
The widening of gaps in returns to skills has been found to contribute to increased income inequality in some of the countries of the region that experienced increases or no changes in wage inequality. In Mexico, for instance, an increase in education returns explains 25 percent of the increase in inequality observed between 1984 and 1994. In Brazil, the reduction in wage inequality is associated with a decrease in both the inequality of education attainment in the labor force and the gap in returns to education (IPEA, 2006).

As Figure 12 indicates, wage inequality decreased for Brazil. Additionally, the ratio of wages of skilled workers to those of unskilled workers fell by 14.3 percent; Gonzaga et al. (2006) found a similar result for the skill premium in manufacturing. There is evidence that returns to education fell in Brazil, and this may be attributed to the expansion of the primary education system. Trade liberalization during the period 1988-1995 also contributed to the reduction in wage inequality, as protection in the Brazilian case was stronger for industries intensive in skilled workers. In contrast to the experience of Mexico, Chile and Colombia, trade liberalization in Brazil seem to have promoted wage gains at the bottom of the distribution. Liberalization efforts have led to both productivity gains and wage gains for the poor and promoted mobility as well.

Note: Unskilled workers are defined as those who have 10 or fewer years of schooling, while skilled workers are defined as those who have 11 or more years of schooling.

Source: Ferreira et al. (2007).
as reduced poverty and inequality. Unemployment is also a key factor of exclusion, together with other two major forces of labor market exclusion: underemployment and precarious employment.

It is important to note also that in many countries in the region increases in wage inequality have not translated directly into increases in household income inequality due to increased female labor force participation and lower fertility rates. Reductions in inequality arising from these factors do not necessarily translate into higher social mobility.

VI. FINAL REMARKS

This article reviews the existing empirical evidence on intergenerational social mobility in Latin America. Even though the absence of long-run panel data in the region precludes a rigorous analysis of social mobility, the combination of data sets with information on son-parents socioeconomic information and studies on the dynamics of income inequality in the region allow us to infer some possible trends and determinants of intergenerational social mobility. The main findings include the following:

i. Intergenerational social mobility seems to be low in the region, even when compared with developed countries that have the lowest levels of mobility, i.e., United States and United Kingdom.

ii. There seems to be high levels of immobility at the lower and upper tails of the income distribution. The analysis of intergenerational income transition matrices by income groups suggests that lower-tail immobility, which may be associated with poverty traps, is more prevalent across excluded populations (such as Afro-descendants in Brazil) and poorer regions. Upper-tail immobility seems to be associated with “traditionally” more privileged groups, such as whites in Brazil, and more developed regions. The latter are probably linked to barriers for accessing higher education, labor market segmentation and positive discrimination.

iii. In rigorous studies on the determinants of intergenerational social mobility in developed countries, education mobility and access to higher education are found to be the main determinants of mobility. Even though the region has improved on intergenerational education mobility in recent decades, which may have translated into higher earnings mobility for younger cohorts, the region (with the exception of Chile) still displays lower education mobility than developed countries. As previously mentioned, these higher rates of immobility seem to be associated to limited access to higher education.

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12 Ferreira et al. (2007).
iv. Labor market dynamics alter the level of intergenerational social mobility as the returns of human capital vary with changes in the supply and demand for certain groups of workers, either strengthening or weakening the effect of greater education opportunities on mobility. With the exceptions of Brazil and Colombia, the increased gap in returns to skills in the region seems to be associated with increased wage inequality. In countries with low progress in educational mobility these may also translate into lower social mobility, as they translate into increasing income-earning advantages for highly educated child-parent pairs.

v. Discrimination and labor market segmentation can lower social mobility –even in countries with ample access to education opportunity– by reducing the labor returns of educated but excluded groups.

vi. The urbanization process and the increased opportunities for migration from poorer areas should promote higher mobility. On the other hand, regional development that is concentrated in certain regions and is not accompanied by adequate migration opportunities into these regions from poorer areas should be associated with decreased social mobility.

There is consensus among most politicians and researchers in the region that one of the key roles of the market system and of government action is ensuring equality of opportunities. Difficulties for policy design arise when societies try to define which public policies and regulations are needed to ensure equality of opportunity. Measures and analysis of the determinants of intergenerational social mobility are key for shedding light on which factors in society limit equal opportunities. It is important to note, however that even the most mobile societies show persistence of income advantages.

The region’s low level of intergenerational social mobility presents policymakers with an array of challenges. The first is to design policies and programs, and possibly to undertake legal reforms, that will equip individuals to participate in both the benefits and responsibilities of society. Improvements in educational quality and access, health care and nutrition, and access to credit represent only a few possible areas for improvement. Second, labor institutions, social security systems, and macroeconomic conditions must ensure that effort, talent, and socially desirable behavior are rewarded both immediately and across generations. Third, policymakers would be ill-advised to address insufficient social mobility with short-term redistributions of wealth that, though initially popular, may ultimately prove ineffective, as beneficiaries of financial or material windfalls may lack the life skills to manage those benefits effectively for themselves or for their descendants. Policies must therefore emphasize equality of opportunities through the development of human and social capital rather than short-term attempts to equalize outcomes. The challenge ahead for policymakers and politicians is to find ways to convince the electorate and their colleagues that these policies are ultimately in their own interest and build support for their proposals accordingly. This may prove the hardest task of all. For researchers, the challenge is to answer the questions posed in the introduction; many of them remain unanswered highlighting the importance of continuing research on intergenerational social mobility in Latin America.
VII. REFERENCES


