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INCLUSIVE GROWTH: DECOMPOSITION, INCIDENCE, AND POLICIES—LESSONS FOR ASIA

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Abstract

This paper examines dynamic measures of growth inclusiveness derived from growth incidence curves. These curves help identify the extent to which each decile of households benefits from growth. The paper discusses the main features of growth incidence curves, their design, computation, data requirements, and interpretation. The use of growth incidence curves is illustrated in application to the case of Senegal. The paper concludes with policy recommendations derived from the interpretation of growth incidence curves and the case study, which can be applied to Asia, in particular its low- and middle-income countries.

JEL Classification: D90, E25, I32
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1. INCLUSIVENESS OF GROWTH

1.1 Theoretical Considerations

Growth is usually considered inclusive if its benefits are widely shared across the population. Although there is no commonly accepted definition, inclusive growth usually refers to the goal of fostering high growth while providing productive employment and equal opportunities, so that all segments of society can share in the growth and employment, while redressing inequalities in outcomes, particularly those experienced by the poor (see IMF 2013, for an overview). For analytical purposes, growth is usually considered inclusive if it is high, sustained over time, and broad based across sectors; creates productive employment opportunities; and includes a large part of a country’s labor force. Additional dimensions of inclusive growth include gender, regional diversification, and empowerment of the poor, including through inclusive institutions. This paper focuses only on the distributional characteristics of growth. Therefore, in this paper, growth is considered inclusive if it helps improve equality.

Inclusive growth should simultaneously reduce poverty and inequality. Growth reduces poverty if the mean income of the poor rises. Growth reduces inequality if it helps straighten the Lorenz curve, which plots the percentage of total income earned by various portions of the population when the population is ordered by the size of their incomes. More formally, starting from Ravallion and Chen (2003), the growth incidence curve, which traces out variability of consumption or expenditure growth by the percentile of the population, can be defined as

\[ g_t(p) = \frac{L_t'(p)}{L_{t-1}'(p)}(\gamma_t + 1) - 1 \] (1.1)

where \( L_t'(p) \) is the rate of change (slope) of the Lorenz curve, \( p \) is the decile of the population, and \( \gamma_t \) is the growth rate of its mean.

For illustration, assume that the ratio of the rate of change of the Lorenz curve is linear

\[ \frac{L_t'(p)}{L_{t-1}'(p)} = \alpha + \beta p \] (1.2)

Then

\[ g_t(p) = (\alpha + \beta p)(\gamma_t + 1) - 1 \] (1.3)

Or

\[ g_t(p) = \alpha(\gamma_t + 1) - 1 + \beta(\gamma_t + 1)p \] (1.4)

Obviously, \( g_t(p) \) shifts up or down by \( \alpha \) and changes its slope depending on \( \beta \).

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\(^1 L_t(p)\) is the fraction at time \( t \) of total income that the holders of the lowest \( p \)th fraction of incomes possess. This varies from zero to one, \( 0 \leq p \leq 1 \), presented as the inverse of the cumulative distribution function.
From equation (1) it follows that

- \( g_t(p) = \gamma_t \), if \( L'_t(p) = L'_{t-1}(p) \): growth at each decile of incidence curve will be equal to the average growth of the distribution at each decile of population, if the slope of the Lorenz curve does not change over time.
- \( g_t(p) > \gamma_t \), if \( L'_t(p) > L'_{t-1}(p) \): growth at each decile of the incidence curve will be higher than the average growth of the distribution at each decile of population, if the slope of the Lorenz curve increases over time;
- \( g_t(p) < \gamma_t \), if \( L'_t(p) < L'_{t-1}(p) \): growth at each decile of the incidence curve will be lower than the average growth of the distribution at each decile of population, if the slope of the Lorenz curve decreases over time;
- The slope of the incidence curve is positive if
  \[
  g'_t(p) = \frac{L''_t L'_{t-1} - L'_t L''_{t-1}}{(L'_{t-1})^2} > 1.
  \]
- The slope of the incidence curve is negative if
  \[
  g'_t(p) = \frac{L''_t L'_{t-1} - L'_t L''_{t-1}}{(L'_{t-1})^2} < 1.
  \]

Therefore, based on the incidence curve, pro-poor and inclusive growth can be derived as follows.

Assuming for simplicity of illustration that the incidence curve is linear (Figure 1), (i) pro-poor growth shifts the mean expenditure (or consumption) of the poor up; the slope of the incidence curve is irrelevant and may be positive, suggesting that growth is not inclusive; (ii) pro-poor inclusive growth shifts the mean expenditure up while the incidence curve is negatively sloped; (iii) accelerations of pro-poor growth just shift the median income further up, while the slope of the incidence curve may remain positive, suggesting the growth remains noninclusive; (iv) an increase in the inclusiveness of growth suggests that the incidence curve becomes negatively sloped \( g'' \), the slope increases \( g' \), and/or the whole curve shifts to \( g'' \) as inequality declines.

From an operational perspective, to assess inclusiveness of growth, a country should take a number of actions: (i) establish the slope of the incidence curve based on the information of at least two sequential household surveys; (ii) if the slope is positive, suggesting that growth has not been inclusive, identify measures that could increase income and spending of the lowest deciles, while increasing the mean growth rate, that is, not at the expense of higher deciles; (iii) if the slope of the incidence curve is negative, suggesting growth has been inclusive, identify measures to increase the slope by making growth of consumption of lower deciles even faster, without hampering any other deciles; (iv) alternatively or in addition, find a measure to reduce inequality in the Lorenz curve coefficient in the next period that would shift the entire incidence curve up.
Figure 1: Stylized Indicators of Inclusive Growth

The growth incidence curve assesses how consumption at each percentile changes over time. The part of the curve above zero points at the deciles that benefit from growth, and the part below zero points at the deciles that lost because of growth. The part of the curve that is above its own mean points at the deciles of the population that benefit from growth relatively more than an average household. The part of the curve below the mean, but still above zero, points at the deciles that also benefit from growth but less than an average household. A negatively sloping growth incidence curve suggests that income or spending of the poorer deciles of the population grows faster than income or spending of the richer deciles. Because, in this case, the poorer groups of the population are catching up with the richer, a negatively sloping growth incidence curve can be viewed as one of the indications of inclusiveness of growth. Improvements in the degree of inclusiveness of growth would be signaled by the growth incidence curve changing the slope from positive to negative, and progress in poverty reduction would lead to the mean of the growth incidence curve and the curve itself moving up.

The linear form of the growth incidence curve is a simplification assumption taken to illustrate better its key properties. In reality, growth incidence curves usually have complex shapes, reflecting growth in consumption or expenditure at each decile of the population. The analysis for the purposes of public policies should be performed on carefully constructed growth incidence curves based on the two most recent household surveys.
1.2 Measures of Equality and Data Issues

Several statistical metrics allow evaluation of different aspects of inclusiveness in this narrow definition. The squared poverty gap\(^2\) assesses inequality as it captures differences in the severity of poverty among the poor. The Watts index\(^3\) is a distribution-sensitive poverty measure because it reflects the fact that an increase in income of a poor household reduces poverty more than a comparable increase in income of a rich household. The Gini coefficient shows a deviation of income per decile from the perfect equality line. The mean log deviation (MLD) index\(^4\) is more sensitive to changes at the lower end of the income distribution. The decile ratio is the ratio of the average consumption of income of the richest 10% of the population divided by the average income of the poorest 10%. Finally, in dynamic terms the increase of income of the bottom deciles can be compared with the average income increase or the income increase in the highest deciles of the population. If the income of the bottom decile in the distribution tends to rise proportionately or faster than the average income, growth would be considered inclusive. Although the squared poverty gap and the Watts index take into account the distributional characteristics of growth indirectly, all other methods measure equality directly.

The quality of the analysis of growth inclusiveness depends on data availability and quality. Such analysis requires at least two household surveys based on a comparable methodology, as well as data on income and consumption by households, which is difficult to collect in many countries because most of the population is employed in the informal sector (Foster et al. 2013). The data may include outliers at both tails of the distribution. Although the outliers have been routinely corrected in national household surveys, they may lead to negative growth rates of the incidence curve for both tails of the distribution in some years (see below). Also, some parameters, such as the size of households and other sociodemographic variables (household head, education level, marital status, employment sector, place of residence, regional distribution, etc.), can vary from survey to survey, affecting poverty measures. Finally, the timing and the definitions of key variables, including the coverage of rural and urban areas, should be the same in different surveys to achieve consistent poverty estimates.

2. GROWTH AND POVERTY REDUCTION: THE CASE OF SENEGAL

2.1 Income Inequality

Using Senegal as example, different statistical measures suggest that, although poverty declined, overall inequality remains broadly unchanged. In 1994–2011, the squared poverty gap shrank by more than half, suggesting that poverty among the poorest people became less severe (Table 1). The Watts index also dropped substantially, suggesting a relatively faster improvement in the situation of people with

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\(^2\) The squared poverty gap index averages the squares of the poverty gaps relative to the poverty line. It takes into account not only the distance separating the poor from the poverty line (the poverty gap), but also the inequality among the poor because it places a higher weight on households further away from the poverty line.

\(^3\) The Watts index is defined as a logarithm of the quotient of the poverty line and a geometric mean of an income standard applied to the censored distribution.

\(^4\) An index of inequality is given by the mean across the population of the log of the overall mean divided by individual income.
the lowest incomes. At the same time, both the Gini coefficient and the MLD index declined a bit in 1994–2005 and increased again in 2005–2011, suggesting no major changes in the overall level of inequality.

Table 1: Senegal: Inequality Indicators, 1994–2011

<table>
<thead>
<tr>
<th>Year</th>
<th>Square Poverty Gap</th>
<th>Watts Index</th>
<th>Gini Coefficient</th>
<th>MLD Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>1994</td>
<td>9.09</td>
<td>0.27</td>
<td>41.44</td>
<td>0.30</td>
</tr>
<tr>
<td>2001</td>
<td>6.18</td>
<td>0.19</td>
<td>41.25</td>
<td>0.29</td>
</tr>
<tr>
<td>2005</td>
<td>4.67</td>
<td>0.15</td>
<td>39.19</td>
<td>0.26</td>
</tr>
<tr>
<td>2011</td>
<td>3.77</td>
<td>0.12</td>
<td>40.30</td>
<td>0.27</td>
</tr>
</tbody>
</table>

MLD = mean log deviation, an index of inequality given by the mean across the population of the log of the overall mean divided by individual income.

Note: PPP-based calculations. The Gini index and income shares may differ from the aggregates used for the national poverty lines. The Gini index based on Enquête Suivi de la Pauvreté au Sénégal (ESPS) 2005–2006 and ESPS 2011 household surveys was 39.2 in 2001, 38.1 in 2005, and 37.8 in 2011. All income/consumption shares by decile are based on estimated Lorenz curves. Households are ranked by income or consumption per person. Distributions are population (household size and sampling expansion factor) weighted.

A simple decile ratio also suggests that the level of inequality remained broadly unchanged. The ratio of consumption in the top decile relative to the bottom decile of the population did not change much between 1994 and 2011. It stood at 12.9 in 1994, declined to about 11.8 in both 2001 and 2005 but increased again to 12.5 in 2011, suggesting the richest consume on average 12–13 times more than the poorest. The richest two deciles of the population consume about half the goods and services in the country, roughly the same amount as the seven bottom deciles of the population (Figure 2), suggesting a substantial level of income disparity and inequality, although lower than the average for sub-Saharan Africa.

Figure 2: Distributional Dimensions of Poverty
Growth in the level of consumption in 2006–2011 was positive but low and almost equal among different deciles of the population (Figure 3). No significant changes occurred in inequality during this period, because growth in consumption of the bottom deciles was only slightly higher than that of the top deciles. In contrast, in 2001–2005, the poorest fifth of the population experienced a decline in consumption, while all middle deciles registered significant growth in consumption, although the increase of the consumption level of the richest groups was insignificant.

2.2 Growth Incidence Curves

A dynamic measure of inclusiveness of growth can be derived from the growth incidence curve.

Although the growth incidence curves give somewhat conflicting signals on distributional shifts in Senegal, they seem to confirm that growth benefited most people in the middle of the income distribution. Between 2001 and 2005 (Figure 4), consumption increased on average, because the mean of the growth incidence curve is above zero, driven by the middle of the distribution (from the 3rd to the 8th deciles). The growth incidence curve is positively sloped, suggesting some increase in inequality during this period. Between 2005 and 2011, the mean of the growth incidence curve is above zero; but the curve is broadly flat, suggesting no clear trend in changes in inequality. On average, for 2001–2011, a clear increase in mean consumption confirms the decline in poverty, as the middle class improved their relative position. However, for 2001–2011 as a whole, the growth incidence curve has a slightly positive slope, which may point to some worsening of inclusiveness. This trend may not be statistically significant, indicating no substantial distributional changes during this period other than the improvement in the relative position of the middle class. This overall result, however, masks significant differences in growth inclusiveness between urban and rural areas.
Figure 4: Growth Incidence Curve for Total Population, 2001, 2005, 2011

In urban areas, people in the middle of the distribution seem to have benefited the most from growth. Between 2001 and 2005, the growth incidence curve for urban areas is substantially above the mean for the whole distribution other than the top decile; but it slopes down a little, suggesting somewhat reduced disparity between the rich and the poor (Figure 5). For 2005–2011, however, the incidence curve hovers around zero and is upward sloping, pointing to some worsening of inclusiveness. For 2001–2011 overall, again there is no clear trend, although growth of consumption of the middle decile was very strong. Although the incidence curve is above zero it looks broadly flat, pointing to unchanged inclusiveness.

Note: Data may include outliers at both tails of the distribution.
In rural areas, inclusiveness of growth may have worsened, and the improvement of the middle class was not very pronounced. Between 2001 and 2005, a clear trend of growing inequality is seen in rural areas because the incidence curve is positively sloped and actually below zero for the first two deciles of the population (Figure 6). Again, there is no clear trend in 2005–2011, neither in terms of inclusiveness (the incidence curve is broadly flat) nor in terms of poverty reduction (the mean is about zero). Overall, in 2001–2011, the incidence curve is positively sloped at low deciles but is broadly flat in the middle, with the growth rate in the lower deciles substantially lower than growth in the median and highest deciles. This may point to an increasing gap between the poor and the rich in some rural areas.
The degree of inclusiveness of growth in rural areas has an important impact on the degree of inclusiveness of growth in Senegal as a whole. The difference between the median growth rates of spending by households in rural areas is closer to the mean growth rate than in urban areas. This may suggest that the overall change in the distribution of households' consumption is heavily influenced by the changes in the distribution in rural areas and that it is skewed to the right, because most households are relatively poorer than the mean household in the country. On the contrary, in urban areas, the impact of changes in growth rates of consumption of relatively rich households on the overall inclusiveness of growth is less significant, because the distribution in urban areas is skewed to the left—most households are relatively richer than the mean household in the country.

Although available indicators sometimes give conflicting signals on distributional shifts, the statistical analysis of the distributional characteristics of growth suggests the following: (i) poverty in Senegal has fallen in the last 2 decades, although poverty reduction has slowed in recent years; (ii) although available indicators sometimes give
conflicting signals on distribut

tional shifts, growth seems to have benefited most people in the middle of the income distribution; (iii) the middle class has benefited from growth, mainly in urban areas, while both the poorest and the richest have lost ground; (iv) growth in rural areas has been less inclusive than in urban areas.

The overall poverty level is relatively lower in Senegal than in most other sub-Saharan African (SSA) countries. At the revised international poverty line, which usually differs somewhat from the national poverty line, Senegal is in the top quarter of SSA countries for which data are available (Figure 7). At the $1.25 a day poverty line (in 2005 prices), Senegal in 2011 was comparable to Ethiopia and Ghana but was behind other countries in the region such as Gabon, Cameroon, and Côte d’Ivoire.\(^5\)

**Figure 7: Poverty Headcount Rate at International Poverty Line**

![Graph showing poverty rates in various countries](image)

PPP = purchasing power parity.


The 2011 household survey in Senegal indicated that poverty remains high, although it declined in the most recent 2 decades. More than 6 million people were living on a household income below the national poverty line. In 1994–2001, gross domestic product (GDP) growth in Senegal was about 5% a year; the poverty rate fell significantly, from 68% in 1994/1995 to 55% in 2001/2002. In 2002–2005, GDP growth reached 4.7%, allowing the poverty rate to decline further to about 48.5%. However, since 2005–2006, repeated shocks have contributed to reducing per capita income growth to little more than the rate of population growth. The 2011 household survey suggests that in the past 5 years poverty incidence has declined by only 1.8 percentage points to 46.7%.

\(^5\) Most comparisons in this paper are based on the data from household surveys. The most recent survey for Senegal was conducted in 2011, whereas for most SSA countries the latest surveys were published in 2005–2010.
2.3 Poverty and Inequality Estimates

This paper uses both national and international estimates of poverty and inequality in Senegal. The distributional and poverty-related data are drawn from nationally representative household surveys published by the National Statistical and Demographic Agency of Senegal (Agence Nationale de la Statistique et de la Démographie). However, for international comparisons, the paper uses the data published by the World Bank, including in PovcalNet (World Bank, PovcalNet), an interactive computational tool that allows calculating poverty measures comparable among countries. In PovcalNet, all poverty rates are based on the international poverty line of $1.25 day in 2005 purchasing power parity (PPP) at 2005 prices, which is different from the poverty line in Senegal. Therefore, the poverty rate calculated based on this poverty line is not directly comparable with the national poverty rate. Moreover, because PovcalNet uses grouped data for each income group, there might be differences from the national data in the Gini index, poverty headcount ratios, consumption by decile of population, and other poverty indicators.6

Growth is usually defined as pro-poor if it reduces poverty. Several metrics are used to measure the change in poverty: the change in the share of population living below the poverty line, monthly per capita consumption, income, or expenditure; and the change in the poverty gap. The poverty line is the minimum level of income deemed adequate for meeting basic consumption needs in a given country, and it differs from country to country. For international comparison, two poverty lines are usually used: daily income of $1.25 and $2 at 2005 PPP. The poverty gap is the mean distance from the poverty line (counting the nonpoor as having zero shortfall), expressed as a percentage of the poverty line. This measure reflects the depth of poverty and its incidence.

The recent prolonged episode of growth has led to a significant reduction in poverty. Based on several household surveys,7 poverty in Senegal—defined as the share of people below the national poverty line—declined from 55.2% in 2001 to 46.7% in 2011 (Table 2). The poverty gap declined from 17.2 to 14.5; other metrics also point to a continued trend in the reduction in poverty, although the pace of improvement declined during the second half of the decade and may not be statistically significant between 2006 and 2011.

Table 2: Senegal: Poverty Indicators, 1994–2011

<table>
<thead>
<tr>
<th></th>
<th>2001</th>
<th>2005</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poverty incidence</td>
<td>55.2</td>
<td>48.3</td>
<td>46.7</td>
</tr>
<tr>
<td>Confidence interval (95%)</td>
<td>52.9–57.5</td>
<td>46.1–50.6</td>
<td>44.1–49.3</td>
</tr>
<tr>
<td>Poverty gap</td>
<td>17.3</td>
<td>15.5</td>
<td>14.5</td>
</tr>
</tbody>
</table>

Source: Agence Nationale de la Statistique et de la Démographie. 2012. www.ansd.sn

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7 Based on data from income, expenditure, household, and budgetary surveys conducted by Senegal’s authorities in 1991–2011 and processed by the World Bank through PovcalNet, an online poverty calculation tool (http://iresearch.worldbank.org/PovCalNet).
Progress achieved in poverty reduction has been more pronounced in Senegal than in some regional peers. In 1994–2005, the share of population living on less than $1.25 a day declined by about 20 percentage points, and for people living on less than $2 a day by about 19 percentage points (Figure 8). By the latter metric, which may be more appropriate for Senegal given its per capita income, Senegal’s poverty dropped faster than in other West African Economic and Monetary Union (WAEMU) countries (15 percentage points) in approximately the same period. The dynamics of poverty reduction in the region have been significantly affected by an increase in poverty in Guinea-Bissau and Côte d’Ivoire during political crises in these countries.

The level of poverty also differs significantly among different regions of Senegal. In 2011, for example, the poverty incidence in the poorest regions (Kolda, Fatick, and Ziguinchor) was 67%–73%, whereas it was only 26% in Dakar.

Figure 8: Change in Poverty Rate

This outcome reflects higher growth and a higher sensitivity to growth of poverty reduction in Senegal. Unlike a number of countries in the WAEMU, particularly those affected by internal conflicts or crises (e.g., Guinea-Bissau and Côte d’Ivoire in the 2000s), real per capita GDP growth in Senegal was always positive in 1995–2011 and in some years quite significant (Figure 9a). In addition, the elasticity of poverty reduction to per capita income growth has been significant in Senegal in regional comparisons. In 2001–2011, this elasticity was about –1.3 in Senegal, above that of some other fast-growing WAEMU countries (e.g., Burkina Faso) (Figure 9b).

Although growth seems to have been a major factor behind the reduction of poverty, this conclusion should be treated with caution. First, an increase in real GDP per capita does not necessarily imply a reduction of poverty and requires supplementary information on the distribution of this additional income among different groups of the population. If the initial distribution of income is highly unequal, the impact of growth on poverty may not be significant. In an extreme case, if all benefits of higher growth were captured by the wealthiest part of the population, the impact of growth on poverty
reduction may be negative. Second, the elasticity of poverty reduction to growth in per capita income depends on the shape of income or consumption distribution and on the position of the poverty line with respect to this distribution. Normally, the closer the poverty line is to the median of the distribution, the higher will be the elasticity of the poverty rate to real per capita growth. Finally, more regular household surveys based on a similar methodology are needed to assess the evolution of growth inclusiveness through time. This impact assessment would be better served by the use of more advanced econometric techniques, which is difficult in the absence of high-frequency poverty data sets.

Figure 9: Factors Contributing to Pro-Poor Growth

GDP = gross domestic product, WAEMU = West African Economic and Monetary Union.
Sources: World Bank. World Development Indicators; International Monetary Fund (IMF). World Economic Outlook; Agence Nationale de la Statistique et de la Démographie; and IMF staff estimates.

3. POLICIES TO INCREASE GROWTH INCLUSIVENESS: LESSONS FOR ASIA

Based on the theoretical consideration and the case study discussed above, the following lessons can be drawn on how to increase growth inclusiveness in Asia, in particular in low- and middle-income countries.

First, sustained overall economic growth is a precondition for poverty reduction and inclusiveness. A number of studies confirm that sustained growth is a key factor in enhancing inclusiveness. Kraay (2004) showed that in developing countries, growth of average income explains 70% of the variation in poverty reduction in the short run. Berg and Ostry (2011) argue that longer growth spells are robustly associated with more equality in the income distribution. Lopez and Servén (2006) suggest that for a given inequality level, the poorer the country the more important is the growth component in explaining poverty reduction. Affandi and Peiris (2012) showed that growth is in general pro-poor, with growth leading to significant declines in poverty across economies and time periods. Specifically, a 1% increase in real per capita income leads to about a 2% decline in the poverty headcount ratio. Therefore, any successful pro-poor growth strategy should have at its core measures to achieve sustained and rapid economic growth. Senegal’s experience is consistent with this cross-country evidence.
Second, special attention should be given to the distributional dimension of growth. An increase in inequality may offset and even exceed the beneficial impact on poverty reduction of the same increase in income (Affandi and Peiris 2012). According to recent estimates, about two-thirds of poverty reduction within a country comes from growth, and greater equality contributes the other third. A 1% increase in incomes in the most unequal countries produces a mere 0.6% reduction in poverty, while in the most equal countries, it yields a 4.3% cut (Ravallion 2013). Because inclusiveness of growth is associated with a number of macroeconomic outcomes and policies, it is important to analyze growth and inclusiveness simultaneously. Increased inequality may dampen growth, but at the same time poorly designed measures to increase inclusiveness could undermine growth. For instance, increasing farm productivity and broadening rural job opportunities is important in addressing rural poverty. In the long run, attention to inclusiveness can bring significant benefits for growth.

Third, well-designed public policies are critical for promoting growth inclusiveness. The Poverty and Social Impact Analysis for Asian countries regularly performed by the International Monetary Fund in cooperation with the World Bank is a useful tool. It suggests that poorer households could be protected against food and fuel price increases in the short term at a lower budgetary cost and more effectively by redirecting resources to better-targeted measures: poor groups can be targeted through measures such as school lunches and public works programs and better-targeted tariffs for small quantities of electricity to protect some of the urban poor. In the medium term, a well-targeted and conditional cash transfer system is the best option for assistance for the poorest.

Fourth, strong growth in agriculture is probably the single most important factor in improving inclusiveness of growth. The strong performance of agriculture in 2008–2010 helps explain the improvement in consumption levels of the poor during this period in spite of low overall GDP growth.

Fifth, structural policies promoting employment and productivity increases, in particular in agriculture, could also help increase inclusiveness. According to the World Bank (2010), several policies have been successful in increasing the agricultural earnings of the poor in other low-income countries. These policies could be applicable in Asia. They include improving market access and lowering transaction costs; strengthening property rights for land; creating an incentive framework that benefits all farmers; expanding the technology available to smallholder producers; and helping poorer and smaller producers handle risk. To expand nonagricultural and urban employment opportunities for poor households, other SSA countries took steps to improve the investment climate; expand access to secondary and girls’ education; design labor market regulations to create attractive employment opportunities; and increase access to infrastructure, especially roads and electricity.

Sixth, inclusive institutions have also been found important for growth inclusiveness. Acemoglu and Robinson (2012) argue that rich countries are rich by virtue of having inclusive institutions, that is, economic and political institutions that include the large majority of the population in the political and economic community. An initial set of inclusive economic institutions would include secure property rights, rule of law, public services, and freedom to contract. The role of the state would be to impose law and order, enforce contracts, and prevent theft and fraud. When the state fails to provide such a set of institutions, growth becomes extractive.
Seventh, coherent labor market policies are also needed for increasing inclusiveness. The challenges of growth, job creation, and inclusion are closely linked, because creating productive employment opportunities throughout the economy is an important way to generate inclusive growth (IMF 2013). In low-income countries, creation of employment opportunities and increasing productivity in rural areas, in particular in agriculture, would prompt higher consumption growth among poorer households. For example, the stronger per capita consumption growth observed in Cameroon and Uganda at the poorest levels seems to relate to high agricultural employment growth (IMF 2011). By contrast, rural agricultural employment fell in Mozambique and Zambia where the poorest experienced weaker or negative per capita consumption growth.

Finally, deepening the finance sector through policies that give better access to the poor for financial services would increase inclusiveness. A number of studies found that financial development generally increases incomes of the poorest households (Claessens 2005), whereas unequal access to financial markets can reduce incomes by impeding investments in human and physical capital. These barriers are widespread in low-income countries, where most people lack access to the formal financial system. At the same time, microfinance and other rural finance and expanding credit information sharing could significantly expand credit availability.
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