The Urbanization of Global Poverty

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We provide new evidence on the extent to which absolute poverty has urbanized in the developing world, and what role population urbanization has played in overall poverty reduction. We find that one-quarter of the world's consumption poor live in urban areas and that the proportion has been rising over time. Urbanization helped reduce absolute poverty in the aggregate but did little for urban poverty reduction; over 1993-2002, the count of the "$1 a day" poor fell by 150 million in rural areas but rose by 50 million in urban areas. The poor have been urbanizing even more rapidly than the population as a whole. Looking forward, the recent pace of urbanization and current forecasts for urban population growth imply that a majority of the poor will still live in rural areas for many decades to come. There are marked regional differences: Latin America has the most urbanized poverty problem, East Asia has the least; there has been a "ruralization" of poverty in Eastern Europe and Central Asia; in marked contrast to other regions, Africa's urbanization process has not been associated with falling overall poverty.

1. Introduction

There is a seemingly widely-held perception that poverty is urbanizing rapidly in the developing world; indeed, some observers believe that poverty is now mainly an urban problem. In an early expression of this view, the distinguished scientific journalist and publisher Gerard Piel told an international conference in 1996 that "The world's poor once huddled largely in rural areas. In the modern world they have gravitated to the cities." (Piel, 1997, p.58). This "urbanization of poverty" — by which we mean a rising share of the poor living in urban areas — has been viewed in very different ways by different observers. To some it has been seen as a positive force in economic development, as economic activity shifts out of agriculture to more remunerative activities, while to others (including Piel) it has been viewed in a less positive light — a largely unwelcome forbearer of new poverty problems.

This paper probes into the empirical roots of this debate — aiming to throw new light on the extent to which poverty is in fact urbanizing in the developing world and what role urbanization of the population has played in overall poverty reduction. We report our results in studying a new data set created for this paper, covering about 90 developing countries with observations over time for about 80% of them.

Our starting point is to recognize that some of the popular perceptions and stylized facts about the urbanization of poverty rest on evidently weak foundations. Consider the following, widely-heard, claims:

Claim 1: *Most people live in rural areas, but this will soon change with urbanization.*

Claim 2: *The incidence of absolute poverty is lower in urban areas.*

Support for Claim 1 has mainly come from the useful compilations of demographic data done by the UN Secretariat's Population Division, in its regular report, *World Urbanization Prospects* (WUP). This assembles data from national statistical sources on the "urban" versus "rural" split of the population. Typically an "urban area" is defined by a non-agricultural production base and a minimum population size (5,000 appears to be a common, but certainly not universal, threshold). However, there are differences between countries in the definitions used in practice,

and arbitrary administrative/political designations are not unknown. Some of the measured growth in the urban population stems from changes in the (implicit) definition of an "urban area;" Goldstein (1990) describes how this happened in China during the 1980s. The distinction between "urban" and "rural" areas is also becoming blurred; urban areas are heterogeneous, with a gradation from "mega-cities" to towns. While very few people (ourselves included) question the validity of Claim 1, there is in fact a cloud of doubt about definitions and magnitudes.

The foundations for Claim 2 are no more secure. Almost all of our prevailing knowledge concerning the urban-rural poverty profile has come from country-specific poverty studies, using local poverty lines and measures. The World Bank's country-specific *Poverty Assessments* are examples of this type of evidence; compilations of the national (urban and rural) poverty measures can be found in the Bank's *World Development Indicators* (WDI; this is an annual publication; the latest issue is World Bank, 2006). Drawing on evidence from this type of data, Ravallion (2002) estimates that 68% of the developing world's poor live in rural areas.

Just as there are comparability problems in the urban population data, so too for the compilations of national poverty statistics. On top of the aforementioned inconsistencies in how "urban areas" are defined, there is the problem that different countries naturally have different definitions of what "poverty" means; for example, higher real poverty lines tend to prevail in richer countries, which tend also to be more urbanized. And the urban composition of the poor probably varies with the level of economic development and urbanization. The picture one gets may well be affected by such comparability problems, although (as we will explain later) there are theoretical ambiguities about the direction of bias in estimates of the urbanization of poverty.

We address some of the weaknesses in existing knowledge relevant to Claim 2, but we have no choice but to take as given the empirical foundations of Claim 1 — based on existing national-level definitions of "urban" and "rural.". By estimating everything from the primary data (either directly from the unit-record data when available or from specially-designed tabulations from those data) we are able to assure a relatively high degree of internal consistency in quantifying the urban-rural poverty profile. We introduce a change in the methodology of the

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World Bank's global poverty counts using international poverty lines, which have not previously been split by urban and rural areas.[1] We combine country-specific estimates of the differential in urban-rural poverty lines with existing Purchasing Power Parity exchange rates and survey-based distributions.[2] Thus we make the first decomposition of the international "$1 a day" poverty counts by urban and rural areas. We re-affirm Claim 2 from these new data.

What does Claim 1 imply for the future validity of Claim 2? Does urbanization of the population as a whole come with lower overall poverty? What about within sectors? Does population urbanization mean that the urban poverty problem will soon overtake the rural problem? We use our new estimates to assess the validity of two further claims:

Claim 3: *The urban share of the poor is rising over time.*

Claim 4: *The poor are urbanizing faster than the population as a whole.*

Past support for these claims has largely come from cross-country comparisons (from similar data sources to those supporting Claim 2), which suggest that the urban share of the poor tends to be higher in more urbanized countries and that the urban poverty rate tends to be higher relative to the overall rate, consistent with Claim 4 (Ravallion, 2002). Here too there are concerns about the empirical foundations of existing knowledge. There is no obvious reason why the comparability problems noted above with reference to Claims 1 and 2 would be time invariant, so biases in the measured pace of the urbanization of poverty cannot be ruled out. And the fact that the existing evidence for Claims 3 and 4, which are about dynamics, has largely come from cross-sectional data leaves room for doubt; possibly the pace of poverty's urbanization over time at country level will look very different to the cross-country differences observed at one date.

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[1] The only previous estimate of the urban-rural split of poverty that we know of by Ravallion (2002) was essentially based on the poverty measures from the WDI, using country-specific poverty lines rather than an international line, such as the $1 a day standard.

[2] PPP exchange rates correct for the fact that non-traded goods tend to be cheaper in poorer countries (where wages are lower). Since 2000, the World Bank's global poverty measures have used the EKS method of setting PPP's (a multilateral extension of the bilateral Fisher price index). Ackland et al. (2006) discuss the alternative methods of estimating PPP's and recommend the EKS method as better reflecting the true COL differences than the main alternative method (as used in Penn World Tables).

It is worth reflecting on why Claim 4 might hold. Intuitively, this is what one expects when urbanization entails gains to the poor (both directly as migrants and indirectly via remittances), but the gains are not large enough for all previously poor new urban residents to escape poverty. Thus the migration process puts a brake on the decline in urban poverty incidence, even when rural poverty and total poverty are falling.[3] To give a sharp characterization of this effect, suppose that a proportion δ of the population shifts from rural to urban areas, of which a proportion α attains the pre-existing urban distribution of income (the successful migrants) while $1 - \alpha$ keeps the rural distribution. The initial difference in poverty rates between rural and urban areas is $H^r - H^u > 0$ where H^k is the headcount index in sector $k=u,r$.[4] It is plain that this urbanization process will reduce aggregate poverty — the national headcount index falls by $\alpha\delta(H^r - H^u)$ — but it will increase the poverty rate in urban areas, which rises by $(1 - \alpha)\delta(H^r - H^u)/(S^u + \delta)$, where S^u is the initial urban population share.

The upshot of these observations is that rising urban poverty is consistent with a poverty-reducing process of economic development, entailing a rising share of the population living in urban areas. In addition to the direct gains to migrants there can be indirect gains to the (non-migrant) rural poor. Economic mechanisms that yield this outcome include rural labor-market tightening and remittances back to rural residents stemming from migration to urban areas. We will see what our data suggest about the validity of Claim 4.

These observations motivate a final proposition:

Claim 5: *Urbanization is a positive force in overall poverty reduction.*

If nothing happens to the distribution of income within either urban or rural areas then Claim 2 implies that the overall poverty rate (urban + rural) will fall as the urban population share rises,

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[3]   In terms of the literature on the economics of urbanization in developing countries, this implies that migration is generally not a classic Kuznets process, whereby a representative slice of the rural distribution is transformed into a representative slice of the urban distribution.

[4]   The headcount index is the proportion of the population living in households with consumption per person below the poverty line.

consistent with Claim 5.[5] But of course we also need to look at what happens within each sector,

recognizing their interlinkage; for example (as we have noted), even if urbanization puts upward

pressure on urban poverty, there may well be offsetting gains to the rural economy.

The following section discusses methodological issues; section 3 turns to our data,

while section 4 uses these data to assess the validity of Claims 2-5. Section 5 looks at

implications for the future urbanization of poverty. Section 6 concludes.

2.   Measuring urban and rural poverty in the developing world

We focus on poverty defined in terms of household consumption per capita. Following

standard practices, the measures of household consumption (or income, when consumption is

unavailable) in the survey data we use are reasonably comprehensive, including both cash

spending and imputed values for consumption from own production. But we acknowledge that

even the best consumption data need not adequately reflect certain "non-market" dimensions of

welfare that differ between urban and rural areas, such as access to public services (invariably

better in urban areas) and exposure to crime (typically more of a problem in urban areas).

We make two key assumptions about poverty measurement. Firstly, we confine attention

to standard additively separable poverty measures for which the aggregate measure is the

(population-weighted) sum of individual measures. This includes the two measures reported in

this paper, the headcount index and the poverty gap index.[6]

Secondly, we also take it as axiomatic that simply moving individuals between urban and

rural areas (or countries), with no absolute loss in their real consumption, cannot increase the

aggregate measure of poverty. Relocation on its own cannot change aggregate poverty.

These assumptions justify confining our attention to <u>absolute poverty measures</u>, by which

we mean the poverty line is intended to have a constant real value both between countries and

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[5]   This will hold for a broad class of population-weighted decomposable poverty measures;
Atkinson (1987) reviews this class of measures.

[6]   The poverty gap index is the mean distance below the poverty line as a proportion of the line
(where the mean is taken over the whole population, counting the non-poor as having zero poverty gaps.)
On the larger set of additively separable measures see Atkinson (1987).

between urban and rural areas within countries.[7] A key issue is then how to deal with the fact that the cost-of-living (COL) is generally higher in urban areas. Casual observations suggest that relatively weak internal market integration and the existence of geographically non-traded goods can yield substantial cost-of-living differences between urban and rural areas. Any assessment of the urbanization of poverty that ignored these COL differences would simply not be credible. Yet existing Purchasing Power Parity (PPP) exchange rates used to convert the international line into local currencies do not distinguish rural from urban areas.

To address this problem we turn to the World Bank's country-specific *Poverty Assessments* (PA's), which have now been done for most developing countries. These are core reports within the Bank's program of analytic work at country level; each report describes the extent of poverty and its causes in that country.[8] The PA's are clearly the best available source of information on urban-rural differentials for setting international poverty lines, although they have not previously been used for this purpose.

The essential idea of this paper is to use country-specific urban and rural poverty lines from the PA's in setting the urban-rural differential in the international poverty lines. The fact that PA's have now been completed for most developing countries makes this feasible. Besides the change in methodology, our methods closely follow those outlined in Chen and Ravallion (2004), which provides the latest available update of the World Bank's global poverty measures for $1 and $2 a day. We follow the long-standing tradition in poverty measurement at the World Bank and elsewhere of relying on primary survey data to the maximum extent feasible.

An alternative approach to global poverty measurement is to combine pre-existing inequality measures at country level from survey data with the estimates of mean consumption or income from the national accounts (NAS).[9] This is not a defensible option for doing an urban-

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[7]   This does not allow the possibility that a new migrant to urban areas experiences <u>relative</u> deprivation. One can question how relevant this is for very poor people (Ravallion and Loskshin, 2005).

[8]   To given an indication of the scale of a PA, the average cost is about $250,000. Most, but not all, PA's are public documents.

[9]   Examples are Bourguignon and Morrisson (2002), Bhalla (2002), Sala-i-Martin (2006) and Ackland, Dowrick and Freyens (2006). Note that the internal consistency of the compilations of existing

rural split of global poverty measures, allowing for COL differences, since neither the inequality measures nor the NAS means would then be valid. This method is also questionable in the limiting case when the COL difference is zero. On the one hand, it is not clear that the NAS data can provide a more accurate measure of mean <u>household</u> welfare than the survey data that were collected precisely for that purpose. On the other hand, even acknowledging the problems of income underreporting and selective survey compliance, there can be no presumption that the discrepancies between survey means and the NAS aggregates (such as private consumption per person) are distribution neutral; more plausibly the main reasons why surveys underestimate consumption or income would also lead to an underestimation of inequality.[10]

2.1   *Urban-rural poverty measures for international poverty lines*

In almost all cases, the PA poverty lines were constructed using some version of the Cost-of-Basic-Needs method.[11]   This aims to approximate a COL index that reflects the differences in prices faced between urban and rural areas, weighted by the consumption patterns of people living in a neighborhood of the country-specific poverty line. This is consistent with the use of an absolute poverty standard across countries.

However, while our method of separating absolute urban and rural poverty measures appears to be the best that is currently feasible, internal consistency is questionable if the urban-rural COL differential varies by income, for then the differential from the PA may not be right for the international poverty lines. If the COL differential tends to rise with income then we will

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inequality measures is also questionable; the measures differ in terms of the recipient unit (household versus individual) and the ranking variable (household versus per capita). Only by re-estimating consistently from the micro data (as we have done) is it possible to address these consistency problems.

[10]   For example, Banerjee and Piketty (2005) attribute up to 40 percent of the difference between the (higher) growth of GDP per capita and (lower) growth of mean household per capita consumption from household surveys in India to unreported increase in the incomes of the rich. Selective compliance with random samples could well be an equally important source of bias, although the sign is theoretically ambiguous; Korinek et al. (2006) provide evidence on the impact of selective non-response for the US. On the problems of selective non-response in surveys more generally see Groves and Couper (1998).

[11]   The precise method used varies from country-to-country, depending on the data available. On the methods sued in setting poverty lines see Ravallion (1994, 1998).

tend to overestimate urban poverty by the $1 a day line in middle-income countries relative to low-income countries, given that the PA poverty line will tend to be above the international line for most middle-income countries. To help assess robustness, we also estimate poverty measures for a "$2 a day" line that is more typical of the poverty lines used in middle-income countries.

A data constraint that can also create internal inconsistencies is that in setting poverty lines, location-specific prices are typically only available for food goods. Also, while nutritional requirements for good health provide a defensible anchor in setting a reference food bundle, it is less obvious in practice what normative criteria should be applied in defining "non-food basic needs." In addressing these concerns, the non-food component of the poverty line is typically set according to food demand behavior in each sub-group of the population for which a poverty line is to be determined. Different methods are found in practice, but they share the common feature that the non-food component of the poverty line is found by looking at the non-food spending of people in a neighborhood of the food poverty line, which is the cost for that sub-group of a reference food bundle (which may itself vary according to differences in relative prices or other factors). Depending on the properties of the food Engel curves (notably how much they shift with factors that are not deemed relevant to absolute welfare comparisons), this may introduce some degree of relativism, or just plain noise, into the urban-rural poverty comparisons.

To outline our approach in more precise terms, let Z^r denote the international rural poverty line, which is fixed across all countries on the basis of existing PPP exchange rates; for example, this might be "$1 a day" in international PPP $'s. Our international <u>urban</u> poverty line at a given date is $(Z_i^u / Z_i^r)Z^r$ where Z_i^k is the national poverty line for sector $k{=}u,r$ in country i, based on the PA. The aggregate international headcount indices of rural and urban poverty across N countries indexed $i{=}1,..,N$ are then:

$$H^r = \sum_{i=1}^{N} S_i^r F_i^r (Z^r) \text{ and } H^u = \sum_{i=1}^{N} S_i^u F_i^u [(Z_i^u / Z_i^r)Z^r] \tag{1}$$

where S_i^k is country i's share of the total population in sector k and F_i^k is the cumulative distribution of consumption in sector k of country i (F_i^k is a non-decreasing function for all k and i). The "global" aggregate headcount index is then $H = S^r H^r + S^u H^u$. The urban share of the poor in country i is $P_i^u \equiv S_i^u H_i^u / H_i$ while it is $P^u \equiv S^u H^u / H$ globally.

How will our change in methodology affect existing poverty measures? Consider first the international ("$1 a day") measures. For these, our change will obviously increase the overall headcount index as long as $Z_i^u \geq Z_i^r$ for all i. The change will also increase P_i^u for all i. The outcome is less obvious when the comparison is made with the national measures:

$$H_{PA}^r = \sum_{i=1}^{N} S_i^r F_i^r (Z_i^r) \text{ and } H_{PA}^u = \sum_{i=1}^{N} S_i^u F_i^u (Z_i^u) \tag{2}$$

(Here we use the subscript "PA" to signify the urban and rural poverty measures based on the national poverty lines used in the country-specific PA's.) There is nothing very general one can say about the effect of switching from the national poverty lines to the international lines as this will clearly depend on the level of the international line as well as the properties of the distribution functions, F_i^k. However some special cases are instructive. Suppose that the international rural line is set at the lower bound of the national poverty lines. Clearly then both the urban and rural international poverty measures (based on (1)) will be no higher than those based on the aggregation of national measures (based on (2). (This reverses when the international line is set at the upper bound of the national lines.) This case is of interest given that the "$1 a day" line is deliberately conservative, in that it is intended to be a poverty line appropriate to the poorest countries (Ravallion et al., 1991; World Bank, 1990). The implication for the share of total poverty found in rural areas is theoretically ambiguous.

Note, however, that the $1 a day line is not strictly a lower bound, but rather an average of the lines found amongst low-income countries. The line used by the Bank is actually $32.74 per month ($1.08=$32.74x12/365 per day), which is the median of the lowest 10 poverty lines in

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the original compilation of (largely rural) poverty lines used for World Bank (1990), as documented in Ravallion et al., (1991) (although the PPPs have been updated and revised since then; see Chen and Ravallion, 2004, for details).[12]   The fact that the line is not a lower bound means that the curvature properties of the distribution functions start to come into play. For example, if the international poverty line is set at the mean of the national lines and these are everywhere below the mode of the (unimodal) distributions then the measures based on the international lines will again be below those based on the aggregation of national poverty measures. (This follows from well-known properties of convex functions.) However, putting these special cases to one side, the implications of re-calculating the urban-rural poverty profile for the developing world based on international poverty lines rather than national poverty lines are theoretically ambiguous.

2.2   *Implementation issues*

Two poverty lines are used, $32.74 and $65.48 per person per month, both at 1993 PPP, interpreted as the "$1 a day" and "$2 a day" lines ($1.08 and $2.15 more precisely). The international rural line is converted to local currency by the Bank's 1993 consumption PPP rate.

We used the ratio of the urban poverty line to the rural line from the PA (generally the one closest to 1993 if there is more than one) to obtain an urban poverty line for each country corresponding to its PPP-adjusted "$1 a day" rural line. Table 1 gives a regional summary of the poverty lines while the Appendix gives the urban-rural poverty line differential by country. On average, the urban poverty line is about 30% higher than the rural line. However, the numbers vary from region to region. In Eastern European and Central Asia, the urban poverty line is only 5% higher on average while in Latin America and the Caribbean it is 44% higher on average.

As can be seen in Figure 1, there is a tendency for poorer countries to have higher ratios of the urban line to the rural line; the correlation coefficient of the poverty-line ratio with the rural headcount index for $1 a day is 0.518 in 1993 (n=89); for the $2 a day headcount index the

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[12]   Chen and Ravallion (2001) also estimate the expected poverty line in the poorest country, which is $1.05 per day, although there is of course a variance around this estimate; the 95% CI is ($0.88, $1.24).

correlation is 0.521 (both are significant at better than the 1% level). This is consistent with the hypothesis that internal market integration tends to improve as countries become less poor.

In all cases, the distributional data were in nominal terms, to which we applied the appropriate urban or rural poverty lines. In two-thirds of cases, the PA gives explicit urban and rural poverty lines, and we used these to construct the COL ratio and (hence) the urban poverty line corresponding to the international rural line. When explicit urban-rural lines were not reported in the PA, but a deflator was applied to adjust for the urban COL differential, we "backed out" the latter from the real and nominal consumption numbers given in the micro data (in some cases this was already done in the form of a price index in the data files). When urban-rural lines (either explicit or implicit) were not available, we applied the population-weighted regional average poverty-line differential to the country in question. We used the country-specific CPI's to adjust the urban and rural index over time. For most countries, we had little choice but to assume that the poverty line differential is constant over time; in only a few cases (though some of the largest countries, including China, India and Nigeria) did we have separate urban and rural CPIs, in order to calculate a date-specific urban-rural poverty line differential. Table 2 gives the numbers of countries in each data category at the regional level.

We were able to derive rural and urban income/consumption per capita distributions for 87 low- and middle-income countries from 208 household surveys representing 95% of the population of the developing world; the Appendix provides details on the country coverage and survey dates.[13] Of these, 157 are for consumption expenditure and 51 are for incomes. Within the 87 countries, 19 use only one distribution, 38 have two distributions while the rest (30) use at

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[13] It was not feasible to obtain separate rural and urban distributions for all the countries used in Chen and Ravallion (2004) since for some we only have grouped data or in a few cases there is no rural-urban identifier in the individual record data. So this is a subset of the data set we have compiled we have for 100 developing countries' income or consumption distributions from 600 + household surveys spanning 1980 to 2004, which is an updated version of the data base described in Chen and Ravallion (2004); the data are available from the *PovcalNet* site: http://iresearch.worldbank.org/povcalnet.

least three distributions over the period.[14] All the household surveys used here are national coverage except Argentina and Uruguay which only cover the urban population (though 90% or more of their populations live in urban areas).

The use of a "per capita" normalization in measuring poverty is standard in the literature on developing countries; for example, virtually all of the PA's use household income or consumption per capita, as have the past international "$1 a day" poverty counts. Although the general presumption is that there is rather little scope for economies of size in consumption for poor people, Lanjouw and Ravallion (1995) have questioned that presumption. Mean household size tends to be higher in rural than urban areas of developing countries, so introducing an allowance for economies of size in consumption will narrow the urban-rural differential in mean living standards. We expect that this would also hold for poverty measures.

Naturally the surveys are scattered over time. We estimate the poverty measures for four years spanning the range of the data, namely 1993, 1996, 1999 and 2002. We call these the "reference years." To estimate regional poverty at a given reference year we "line up" the surveys in time using the same method described in Chen and Ravallion (2004). The latter paper also describes our interpolation method when the reference date is between two surveys.

The urban population data are from the latest available issue of the WUP in 2006 (UN, 2005). As noted in the introduction, there are undoubtedly differences in the definitions used between countries, which we can do little about here.[15] The WUP estimates are based on actual enumerations whenever they are available. The WUP web site provides details on data sources and how specific cases were handled; see http://esa.un.org/unup/.

Using the household survey data, we could also draw urban population shares from each survey's internal sample weights. We found that these two sets of weights differ for some countries. This was mainly a problem in the data for Sub-Saharan Africa (SSA). To test

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[14]   For some countries, we did not use all available surveys as some were not considered sufficiently comparable over time; there are examples for India, Mongolia, Cambodia, Malawi and Gambia.

[15]   In some cases, the WUP made adjustments to assure consistency over time, but there do not appear to have been any adjustments between countries.

robustness we re-calculated the estimates for SSA using the survey-based urban population shares (giving results more consistent with Chen and Ravallion, 2004). The rate of decline over time is somewhat higher using the census shares, but the difference is modest.[16]

3.   The urbanization of poverty 1993-2002

Tables 3 and 4 give our aggregate results. Consistently with Claim 2, we find that rural poverty incidence is appreciably higher than urban. The "$1 a day" rural poverty rate in 2002 of 30% is more than double the urban rate. Similarly, while we find that 70% of the rural population lives below $2 a day, the proportion in urban areas is less than half that figure. The rural share of poverty in 2002 is 75% using the $1 a day line, and slightly lower using the $2 line. This is higher than the widely-used estimate of 68% obtained by Ravallion (2002) using a population-weighted aggregate of the national poverty measures. This is a non-negligible difference, representing the reclassification of over 80 million poor people from urban to rural.

Over the period as a whole, we find a 5.2% point decline in the "$1 a day" poverty rate, from 27.8% in 1993 to 22.7% in 2002. This was sufficient to reduce the overall count of the number of poor by about 100 million people. However, there is a marked difference between urban and rural areas. The rural poverty rate much more than the rural rate. The count of 98 million fewer poor by the "$1 a day" standard is the net effect of a decline by 148 million in the number of rural poor and an increase of 50 million in the number of urban poor. Similarly, the progress in reducing the total number of people living under $2 a day in rural areas by 116 million came with an increase in the number of urban poor of 65 million, giving a net drop in the poverty count of 51 million (Table 4).

Our aggregate results point to a somewhat higher overall poverty rate, and a slightly lower rate of poverty reduction than found in Chen and Ravallion (2004). On comparing our results for 1993 in Table 3 to the Chen-Ravallion estimates, using essentially the same methods but without allowing for an urban-rural differential in the cost-of-living, we find that a $1 a day

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[16]   For 1993, 1999 and 2002 the headcount indices for SSA were 51.28, 49.19 and 46.93% using census shares as compared to 51.42, 49.75 and 47.64% using the implicit weights from the survey data.

headcount index that is about 1.6% points higher in 1993 (27.9% versus 26.3%) and that it declines at a rate of about 0.6% points per year, as compared to 0.7% points. The higher level is unsurprising (given that we have allowed for a higher poverty line in urban areas). The lower pace of overall poverty reduction reflects the fact that the urban headcount index for $1 a day shows no trend decline (Table 3). Thus, we find that past methods that have ignored the urban-rural COL difference (including the Chen-Ravallion method) have underestimated poverty in a segment of the economy with a below average rate of poverty reduction over time, and (hence) they have slightly overestimated the overall speed of progress against poverty.

The lack of a trend in the overall urban poverty rate implies that the main proximate causes of the overall decline in the poverty rate evident in Tables 3 and 4 are (i) urban population growth (at a given urban-rural poverty rate differential) and (ii) falling poverty incidence within rural areas. To help quantify the relative importance of these factors one can decompose the change in overall poverty between 1993 and 2002 (say) as:[17]

$$H_{02} - H_{93} = w^r (H^r_{02} - H^r_{93}) + w^u (H^u_{02} - H^u_{93}) + w^s (S^u_{02} - S^u_{93}) + error \qquad (3)$$

where H_t is the aggregate headcount index and H^k_t is that for sector $k=u,r$ and $t=(19)93, (20)02$.

The first two terms on the RHS are the sector contributions (with time-invariant weights w^u and w^r) while the third term ($w^s (S^u_{02} - S^u_{93})$) is the urban-rural population shift effect (weighted by w^s), which we call the "urbanization component." The decomposition is exact (*error*=0) if we chose the weights $w^k = S^k_{02}$ and $w^s = (H^u_{93} - H^r_{93})$.[18] Table 5 gives the results.

We find that 4.0% points of the 5.2% point decline in the aggregate $1 a day poverty rate between 1993 and 2002 is attributed to lower rural poverty, 0.3% points to lower urban poverty,

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[17]   This is one of the decompositions for poverty measures proposed by Ravallion and Huppi (1991).

[18]   That is not the only possible weighting scheme; for example, one might prefer to use the initial population shares as the weights for the sector components ($w^k = S^k_{93}$), but this choice makes very little difference to our results (the residual is small), and the exact decomposition is neater.

and 1.0% point to urbanization. Three-quarters of the aggregate poverty reduction is accountable to falling poverty within rural areas. One fifth is attributed to urbanization.

Note that this assessment does not allow for any indirect gain to the rural poor from urban population growth. The urbanization component in (3) can be interpreted as the <u>direct</u> contribution of a rising urban population share to total poverty reduction, given the initial difference in urban and rural poverty measures. However, the rural poverty reduction component is also the result (in part at least) of urban population growth, notably though remittances and tighter rural labor markets. We return to this issue in section 3.2.

3.1   *Are the poor urbanizing faster than the population as a whole?*

For the "$1 a day" line, the aggregate results in Table 3 indicate that the urban share of the poor is rising — consistent with Claim 3 — <u>and</u> the ratio of urban poverty to total poverty incidence has risen with urbanization — implying Claim 4. The value of H^u / H rises from 0.495 to 0.580 over 1993-2002. The proportionate rate of growth is about 3% per year for the share of the poor living in urban areas, versus about 1% per year for the overall urban population share.[19] There is naturally a smaller difference between the changes in the levels than for the (proportionate) growth rates. We find that the urban share of the "$1 a day" poor is rising at about 0.6% points per year over 1993-2002.[20] By contrast the population as a whole is urbanizing at a rate of about 0.5% points per year over the same period.[21]

Using the "$2 a day" line, we find a slightly higher proportion of the poor living in urban areas, but that this proportion has been rising at a slower pace than for the $1 a day line; the share of the poor in urban areas is rising at about 0.3% points per year using the higher line — half the absolute rate implied by the $1 a day line. Furthermore, Claim 3 is starting to look

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[19]   The OLS regression coefficient of the log share of the "$1 a day" poor in urban areas on time is 2.75% (s.e.=0.48) while for the log urban population share it is 1.17% (0.004).

[20]   The OLS regression coefficient of the share of the poor in urban areas for the $1.08/day poverty line on time is 0.594 with a standard error of 0.088.

[21]   The OLS regression coefficient is 0.47 with a standard error of 0.007.

fragile for the $2 a day line since the late 1990s; there is a sign of a deceleration in the urbanization of poverty in Table 4. The ratio of urban to total poverty rose only slightly, from 0.620 to 0.622 between 1993 and 2002. Thus the rate of growth of the aggregate urban share of the poor of about 1.2% per annum over 1993-2002 is very close to that for the population as a whole.[22] Claim 4 is not supported by our results for the $2 a day line.

So neither Claims 3 nor 4 hold up as well for the $2 a day line as we find for $1 a day. Urban poverty reduction has clearly played a more important role in aggregate poverty reduction using the $2 line than the $1 line. Of the total decline in the poverty rate for the higher line of 8.7% points, 4.8% is attributed to rural poverty reduction (55% of the total), 2.3% to urban, and 1.6% to the population shift effect (based on equation (3)).

It is of interest to see what happens if we drop China from these calculations, given its size and the fact that China is unusual in a number of respects, notably in the low share of the poor living in urban areas and the slower pace in the urbanization of poverty compared to other developing countries. Tables 3 and 4 also give the aggregate results excluding China. As expected, we then find a higher urban share of the poor. What is more notable is that we now find that H^u/H is rising over time using both poverty lines, supporting Claim 4; excluding China, H^u/H rises from 0.591 to 0.657 for $1 and 0.674 to 0.702 for $2 a day.

We can also assess the validity of Claims 3 and 4 using the country-level estimates underlying Tables 3 and 4. By definition, the share of the poor living in urban areas is $P^u(S^u) = (H^u/H)S^u$, where H^u/H is taken to be a function of the urban share of the population, S^u; $P^u(S^u)$ is the <u>poverty urbanization curve</u> (PUC) of Ravallion (2002).[23] Log differentiating with respect to time, the growth rate in the urban share of the poor is:

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[22]   The regression coefficient of the log share of the poor in urban areas for the $2/day poverty line on time is 1.17% with a standard error of 0.37.

[23]   Ravallion (2002) provides an economic model of a dualistic economy that implies a PUC with the properties found in the data.

$$\frac{\partial \ln P^u(S^u)}{\partial t} = \left(1 + \frac{\partial \ln H^u/H}{\partial \ln S^u}\right) \frac{\partial \ln S^u}{\partial t} \tag{4}$$

We can estimate the elasticity, $\partial \ln(H^u/H)/\partial \ln S^u$, from the country-level estimates underlying Tables 3 and 4. The estimated elasticity is 0.177 (s.e.=0.077; n=321) for the $1 a day line and 0.126 (0.0230; n=348) for the $2 line. The fact that these elasticities are significantly positive implies that the poor urbanize faster than the population as a whole ($\partial \ln P^u(S^u)/\partial t > \partial \ln S/\partial t$). While Claim 4 is confirmed, the difference in growth rates is small, especially for the $2 a day line. Appreciably higher elasticities are obtained if we allow for regional fixed effects; then the estimated elasticities increase to 0.351 (0.091) and 0.206 (0.040) for the $1 and $2 lines respectively.[24] (There was no sign of time effects.)

The proximate reason why the poor are urbanizing faster is not that the proportionate difference between urban and rural poverty rates rises with urbanization, but rather it is the size of the initial gap in poverty rates between the two sectors. This can be verified on noting that:

$$\frac{\partial \ln H^u/H}{\partial \ln S^u} = \frac{S^u(H^r - H^u)}{H} + \frac{(1-S^u)H^r}{H} \frac{\partial \ln H^u/H^r}{\partial \ln S^u} \tag{5}$$

Using regressions of the log poverty rate differential ($\ln(H^u/H^r)$) on the log urban population share, we cannot reject the null hypothesis that $\partial \ln(H^u/H^r)/\partial \ln S^u = 0$ (the t-ratio is -0.88 for $1 and -0.25 for $2). Thus the second term on the RHS of (5) effectively drops out on average.

3.2   Is urbanization a positive force in poverty reduction?

We do not attempt a causal analysis of the poverty impacts of population urbanization, but we can offer some empirical observations from our data that are at least consistent with Claim 5.

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[24]   Note that the fact that these are un-weighted regressions entails that China gets a lower weight than the population-weighted aggregates in Tables 3 and 4; as we have already seen the aggregate results without China are more consistent with Claims 3 and 4, and with these regressions.

It is clear from Table 3 that different regions are urbanizing at rather different rates over time. These differences are correlated with rates of poverty reduction. Using the country-level estimates for all years, Figure 3 gives plots of the $1 and $2 a day poverty rates against the urban population share; there is a strong negative correlation. Figure 4 gives the corresponding figures with a split of the urban and rural sectors. We see that both urban and rural poverty rates tend to be lower at higher urban population shares, but there is also a clear sign of convergence, such that the absolute gap between the urban and rural poverty rates tends to be lower at higher levels of urbanization; the regression coefficient of $H^u - H^r$ on S^u is 0.224 (s.e.=0.033; n=340) for the $1 a day line and 0.260 (s.e.=0.037; n=340) for the $2 line.

Population urbanization may well be correlated with country or regional effects, leading us to overstate the strength of the relationship. This can be tested by regressing the urban and rural poverty rates on the urban population share including additive fixed effects (a dummy variable for each region or country), i.e., the mean level of poverty at a given urban population share is allowed to vary by region or country.[25] Table 6 gives the regression coefficients. We see that both poverty measures tend to decline as the urban population share rises, although the effect is smaller (but more statistically significant) for the country data.[26]

One can question a strict causal interpretation of these regressions. Changes in the urban population share are undoubtedly correlated with other time-varying factors, notably the economic growth process. All we can reasonably claim from these results is that the data are inconsistent with the view that urbanization is a negative factor in overall poverty reduction. The precise channels through which population urbanization influences poverty reduction are a subject for future research.

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[25]   As a further test, we repeated the regressions in Table 6 allowing for an independent time trend, but we found a similar pattern, suggesting that the significant regression coefficients on urban population share for both national and rural poverty; the urbanization effect is not just picking up a trend reduction in poverty. The regression coefficients on the urban population share were -1.304 (0.645), -1.603 (0.787) and -0.119 (0.264) for the national, rural and urban headcount indices respectively.

[26]   Table 6 does not give the regression for the national poverty measures since an identity links the urban and rural measures and urban population share to the national measure.

3.3   *Regional differences in the urbanization of poverty*

It is evident from Tables 3 and 4 that Claim 2 holds in all regions for both lines, although there are notable differences across regions in the extent of the disparity in poverty rates between urban and rural areas. In 2002, the rural headcount index for East Asia was nine times higher than the urban index, but only 16% higher in South Asia, the region with the lowest relative difference in poverty rates between the two sectors. The contrast between China and India is particularly striking, with an urban poverty rate in China in 2002 that is barely 4% of the rural rate, while it is 90% for India. Urban poverty incidence in China is unusually low relative to rural, though problems in the available data for China (notably in the fact that recent migrants to urban areas are undercounted in the urban surveys) are probably leading us to underestimate the urban share of the poor in that country.[27]

The regional differences in the urbanization of poverty are clear in Figure 2, plotting the urban share of the poor by region. The share is lowest in East Asia, due in large part to China. The urban share of the poor is highest in LAC, which is the only region in which more of the "$1 a day" poor live in urban than rural areas (the switch occurred in the mid-1990s). For LAC, almost two-thirds of the $2 a day poor live in urban areas.

South Asia and SSA are clearly the regions with highest urbanization of poverty at given overall urbanization, due to their relatively high urban poverty rates relative to rural; these are also the regions with the highest overall poverty rates. In 2002, almost half (46%) of the world's urban poor by the $1 a day line are found in South Asia, and another third (34%) are found in SSA; these proportions fall appreciably when one focuses on the $2 a day line, for which 39% and 22% of the urban poor are found in South Asia and SSA respectively.

There are other notable regional differences. In the aggregate and in most regions, poverty incidence fell in both sectors over the period as a whole (though with greater progress against rural poverty in the aggregate). LAC and SSA are exceptions. There rising urban

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[27]   For further discussion see Ravallion and Chen (2007).

poverty came with falling rural poverty. The (poverty-reducing) population shift and rural components of (3) for LAC and SSA were offset by the (poverty-increasing) urban component.

While the urban poverty rate for the developing world as a whole was relatively stagnant over time for $1 a day, this is not what we find in all regions. Indeed, the urban poverty rate is falling relative to the national rate in both East Asia and ECA, attenuating the urbanization of poverty; indeed, in ECA the urban share of the poor is actually falling over time — a "ruralization" of poverty — even while the urban share of the total population has risen, though only slightly. (There is the hint of a ruralization of $2 a day poverty in East Asia from the late 1990s, again due to China.) The ruralization of poverty in ECA is not surprising, as it is consistent with other evidence suggesting that the economic transition process in this region has favored urban areas over rural areas (World Bank, 2005). This has also been the case in China since the mid-1990s (Ravallion and Chen, 2007).

South Asia shows no trend in either direction in the urban poverty rate relative to the national rate, and the region has also had a relatively low overall urbanization rate, with little sign of a trend increase in the urban share of the poor. The population shift component of the decomposition in (3) is also relatively less important in South Asia.

The urban poverty rate relative to the national rate has shown no clear trend in Sub-Saharan Africa, although rapid urbanization of the population as a whole has meant that a rising share of the poor are living in urban areas.

Using the country level estimates underlying Tables 3 and 4 we can also estimate the elasticity of H^u / H to S^u by region. Table 7 gives the results. Two regions stand out as exceptions to Claim 4: ECA and MNA. In ECA we find that the elasticity is not significantly different from zero in the country-level data set; this is also true for MNA using $2 a day, but we find a significant negative elasticity for $1 a day, implying that the poor are urbanizing at a significantly lower rate than the population as a whole.

Amongst the six regions of the developing world, SSA stands out as an exception to our finding that urbanization has come with falling overall poverty (Claim 5). Splitting the

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regression coefficient of the aggregate headcount index on the urban population share between SSA and the rest (with regional fixed effects) we find that the coefficient is -0.398 (0.292; n=24) for SSA versus -1.112 (0.447) for non-SSA regions. Again, the urbanization effect is on <u>rural</u> poverty, with no effect on urban poverty in SSA and only a small effect in non-SSA.[28]

3.4   Urban and rural poverty gaps

So far we have focused on the headcount index. While this is the most common measure in practice, it has the well-known conceptual drawback that it does not reflect changes in living standards below the poverty line. Table 8 gives the poverty gap (PG) indices for both poverty lines. The overall patterns are similar to Tables 3 and 4, and most of the same comments apply. The urban share of the total poverty gap — the urban poverty gap times the urban population share divided by the total (urban + rural) poverty gap — has risen over time, with about three-quarters of the overall poverty gap found in rural areas in 2002 (slightly lower for $1 a day than $2). One noticeable difference with the headcount measures is that we now find that it is Eastern Europe and Central Asia where the $1 a day poverty gap is the most urbanized, rather than LAC. Another point of note is that the $1 a day poverty gap in South Asia is not becoming any more urban over time, though this is evident for the higher poverty line.

While our results for both the headcount index and poverty gap index (and both poverty lines) confirm Claim 2, there is a qualification to be noted. Amongst those living below the poverty line, the mean poverty gap turns out to be higher in urban areas than in rural areas, using the $1 a day line. The mean income of those living below this line in 2002 was $0.73 in urban areas as compared to $0.76 in rural areas (combining Tables 8 and 3).[29] The ranking is the same in other years, but switches at the $2 a day poverty line.

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[28]   For rural poverty the regression coefficient is -0.412 (0.242) in SSA versus -1.355 (0.532) in non-SSA. For urban poverty the corresponding coefficients are -0.015 (0.412) and -0.269 (0.145).

[29]   This calculation uses the fact that the mean income of the poor is given by $Z(1-PG/H)$.

4.   On the future urbanization of poverty

The latest WUP predicts that the urban share of the population of the developing world will reach 60% by 2030 (UN, 2005). Critics of the WUP forecasting methods have argued that they are likely to overestimate the pace of future urbanization (National Research Council, 2003; Bocquier, 2005). This is suggested by Cohen's (2004) observation that the urban population of the developing world in 2000 was appreciably lower than the WUP predictions for that year made in both 1990 and 1980. Bocquier's (2005) alternative forecasting method predicts a much slower pace of urbanization, with the urban population share rising to only 49% in 2030.[30]

There are reasons to be skeptical of all such forecasts, but this is not the place to dwell on such concerns. All we want to do here is to see what implications current forecasts for urban population growth hold for future trends in the urbanization of poverty, in the light of our new data set. To do so we need to link the growth rate of the urban population to the urbanization of poverty. That link is directly provided by the PUC, $P^u(S^u)$. Ravallion (2002) proposes the following cubic specification for the PUC:

$$P^u(S^u) = [1 + \beta(1 - S^u) + \gamma(1 - S^u)^2]S^u \qquad (6)$$

This has the desired theoretical properties — notably that $P^u(S^u)$ must map from [0,1] to [0,1] — and sufficient flexibility to represent the data.

On adding an error term and estimating a pooled model over all four years, with different parameters for each year, we could not reject the null hypothesis that $\beta + \gamma = 0$ in equation (6). Imposing this restriction we obtained (with the White standard error in parentheses):

$$P^u(S^u_{it}) = [1 - \underset{(0.113)}{1.449}(1 - S^u_{it})S^u_{it}]S^u_{it} + \hat{\varepsilon}_{it} \quad \text{n=336; R}^2\text{=0.460} \qquad (7)$$

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[30]   The methodological issue raised by Bocquier relates to the extent of nonlinearity in the relationship between the urban-rural growth difference and the urban population share; the UN's methods assume linearity; Bocquier presents evidence suggesting that it is a nonlinear relationship, which he then allows for in his own forecasting method.

We also allowed β to vary by year, but could not reject the null hypothesis that the parameter is constant over time.[31] Figure 5(a) plots the data and fitted values based on (7).

For the $2 poverty line, the coefficient on the squared term was not significantly different from zero (t=1.115). Imposing this restriction we settled on the following model for the $2 line:

$$P^u(S_{it}^u) = [1 - \underset{(0.029)}{0.394}(1 - S_{it}^u)]S_{it}^u + \hat{\varepsilon}_{it} \quad \text{n=348; R}^2\text{=0.777} \tag{8}$$

Again, we could not reject the null of parameter constancy over time.[32] Figure 5(b) plots the data and fitted values based on (8).

The fit is noticeably better for the $2 line. The $1 a day measures are very low for some middle-income countries in the sample, and the accuracy of our estimates of the share of poverty in urban areas is questionable at low levels of poverty. As one test for robustness we re-estimated equation (6) on a truncated sample for which the $1 a day headcount index exceeded 2%. The overall fit improved appreciably, with R^2 rising to 0.615 and the estimated coefficient was -1.196 (s.e.=0.107; n=270).

The intertemporal stability of the PUC gives us some confidence in using it as a forecasting tool, for given projections of the urban population share. Recall that the WUP predicts that the urban population share for the developing world will reach 60% by 2030 (UN, 2005). If poverty urbanizes in the future consistently with the relationship modeled above, then the urban share of "$1 a day" poverty will reach 39% at that date, with a standard error of 1.6%. (This rises to 43% for the truncated sample with poverty rates over 2%.) For the higher poverty line, the urban share of the poor will be 51% by 2030 with a standard error of 0.7%.

For the $1 a day line, these estimates are very close to what one obtains by the simplest linear extrapolation. At the rate of increase in the urban share of the world's "$1 a day" poor of 0.6% points per year implied by Table 3, the share will rise from 25% in 2002 to 42% by 2030.

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[31] The parameter estimates were -1.306 (s.e.=0.245), -1.494 (0.226), -1.581 (0.217) and -1.411 (0.220) for 1993, 1996, 1999 and 2002 respectively.

[32] The estimates were -0.413 (0.055), -0.389 (0.055), -0.391 (0.055) and -0.382 (0.055) for 1993, 1996, 1999 and 2002 respectively.

A majority of the poor will be found in rural areas until about 2040. However, at the pace of urbanization found for the $2 poverty rate that we find in Table 4, a majority of the poor will live in rural areas for another 80 years or so! The signs of deceleration in the urbanization of the $2 a day poor in Table 4 also point to a slower future rate than suggested by the above calculations based on the WUP projections and our PUC's.

Systematic errors in the UN's projections for the urban population share will, of course, bias these forecasts for the future urbanization of poverty. As already noted, the critical assessments of the UN's forecasts have argued that they are likely to overestimate the pace of future urbanization. The alternative forecasts by Bocquier (2005) predict that the urban population share will only to 49% in 2030. Inserting this estimate into our PUC implies that the urban share of the "$1 a day" poor would rise to only 31% by that date (standard error of 1.4%), while for the $2 line it would rise to 39% (s.e.=0.7%).

These projections should clearly not be taken too seriously. Narrowing down the range of estimates would certainly require a credible economic model, since the pace of urbanization will undoubtedly depend on the extent and pattern of future economic growth. However, from what we currently know, it appears very likely that the bulk of the poor will still be living in rural areas for at least a few decades to come.

5.   Conclusions

Widely heard concerns about the urbanization of poverty in the developing world have been neither well informed by data nor cognizant of the broader economic role of urbanization in the process of overall poverty reduction. To help address these issues, we have provided new estimates of the urban-rural breakdown of absolute poverty measures for the developing world, drawing on over 200 household surveys for about 90 countries, and exploiting the World Bank's *Poverty Assessments* for guidance on the extent of the urban-rural cost-of-living differential facing poor people, to supplement existing estimates of the Purchasing Power Parity exchange rates for consumption.

We estimate that about three-quarters of the developing world's poor still live in rural areas, when assessed by international poverty lines that aim to have a constant real value (between countries and between urban and rural areas within countries). Poverty is clearly becoming more urban, although our results suggest that it will be many decades before a majority of the developing world's poor live in urban areas.

The poor are urbanizing faster than the population as a whole, reflecting a lower-than-average pace of urban poverty reduction. One's concern about the seemingly low pace of urban poverty reduction in much of the developing world must be relieved by the fact that it has come with more rapid progress against rural poverty. Over 1993-2002, while 50 million people were added to the count of $1 a day poor in urban areas, the aggregate count of the poor fell by about 100 million, thanks to a decline of 150 million in the number of rural poor. Our results are consistent with the view that the urbanization process has played a quantitatively important, positive, role in overall poverty reduction, by providing new opportunities to rural out-migrants (some of whom escape poverty in the process) and through the second-round impact of urbanization on the living standards of those who remain in rural areas. What we see here is suggestive of a compositional effect on the changing urban population, whereby the slowing of urban poverty reduction is the "other side of the coin" to what is in large part a poverty-reducing process of urbanization.

We find some marked regional differences in all these respects. The majority of Latin America's poor live in urban areas, while it is less than 10% in East Asia (due mainly to China). The pattern of falling overall poverty with urbanization is far less evident in Sub-Saharan Africa, where the population (including the poor) has been urbanizing, yet with little reduction in aggregate poverty. There are also exceptions at regional level to the overall pattern of poverty's urbanization; indeed, we find signs of a ruralization of poverty in China and in Eastern Europe and Central Asia.

Our results also have implications for assessments of overall progress against poverty. Compared to past estimates ignoring urban-rural cost-of-living differences, we find a somewhat

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higher aggregate poverty count for the world, and a somewhat lower pace of poverty reduction. These differences stem from the higher cost-of-living, and the slower pace of poverty reduction, in urban areas revealed by our study.

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Figure 1: Plot of urban-rural poverty line differential against rural headcount index
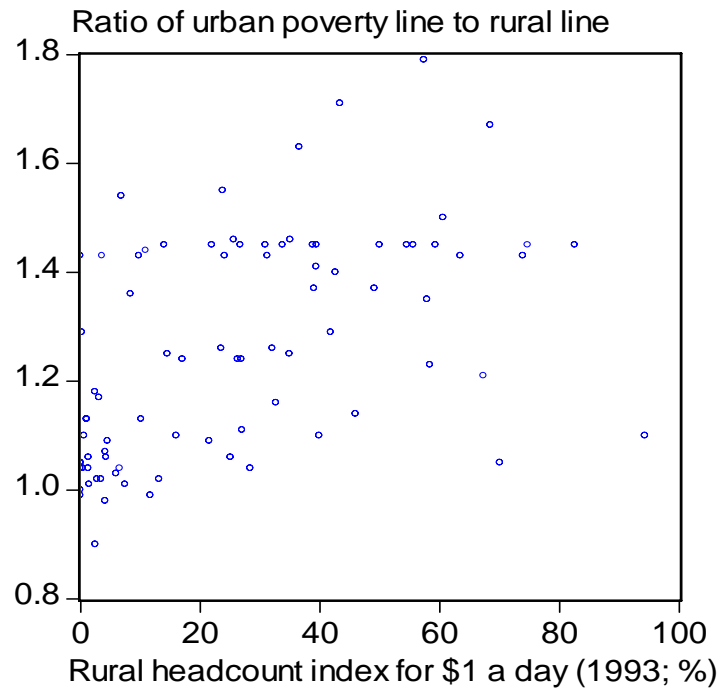
Figure 2: Urbanization of poverty by region

(a) "$1 a day" poverty line

Share of "$1 a day" poor living in urban areas (%)

(b) "$2 a day" poverty line

Share of "$2 a day" poor living in urban areas (%)
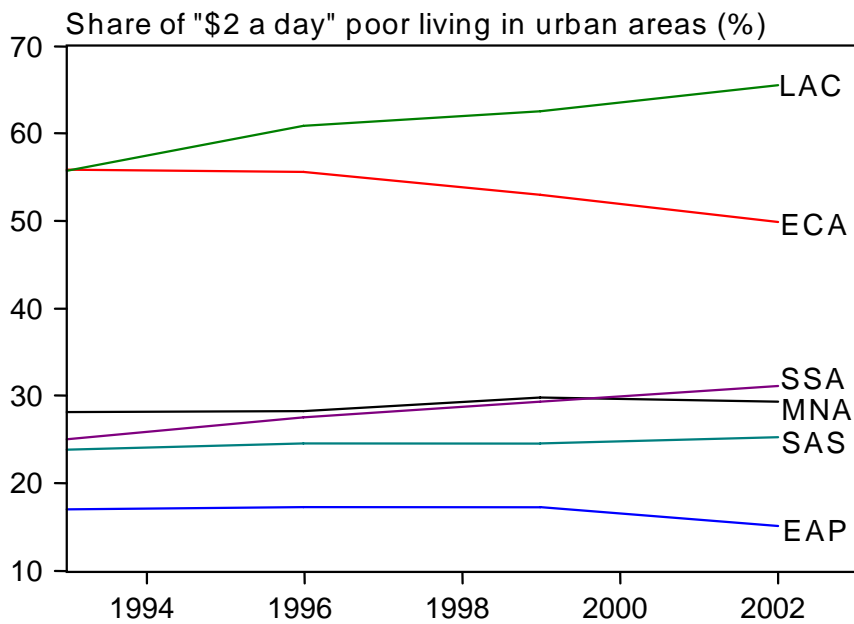
Figure 3: National headcount indices plotted against urban population share (countries and dates pooled)
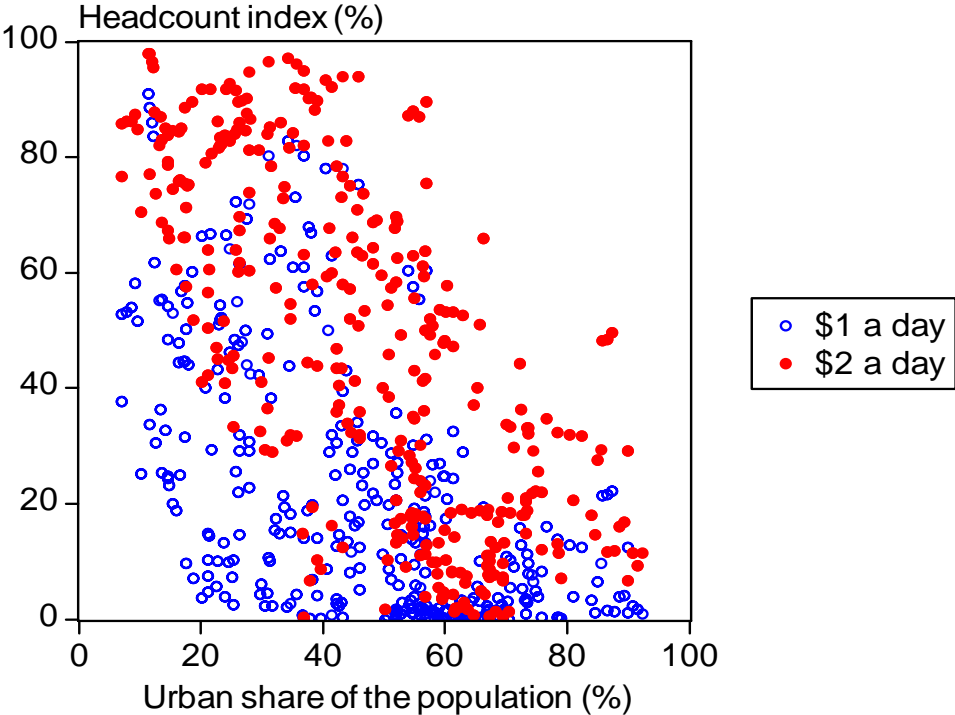
Figure 4: Urban and rural headcount indices plotted against urban population shares

(a) "$1 a day" poverty line
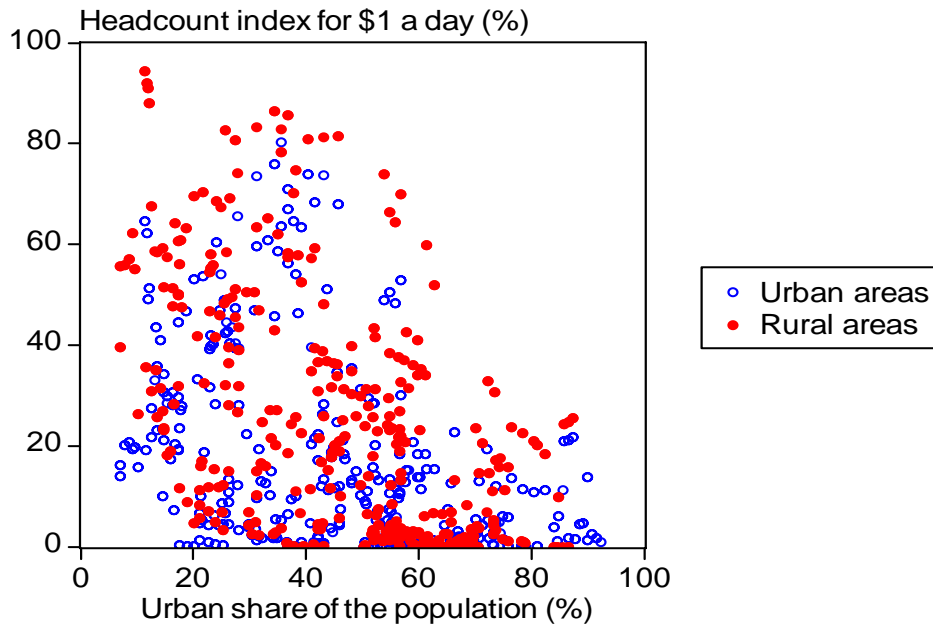
(b) "$2 a day" poverty line
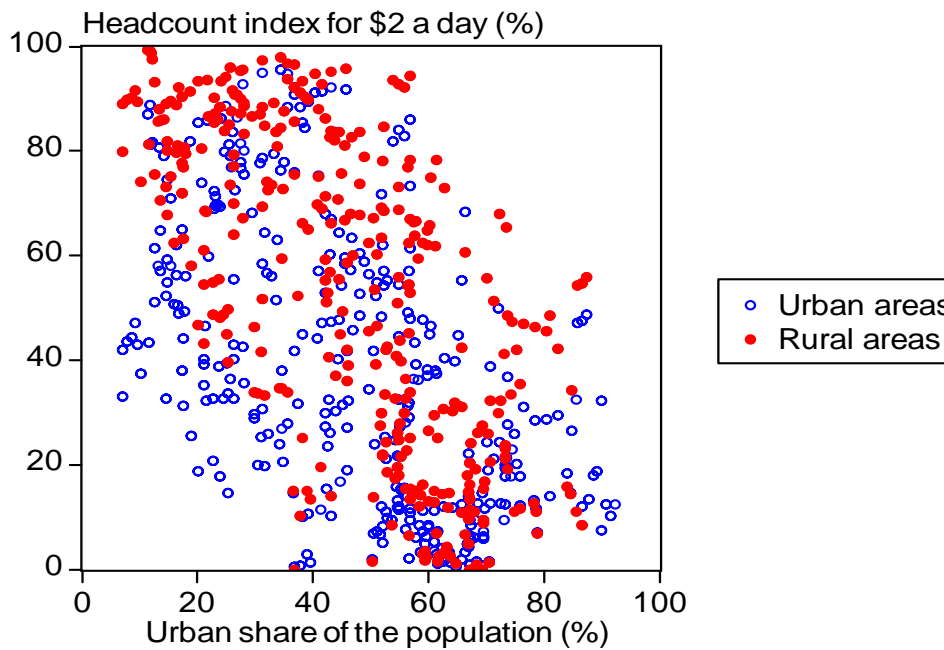
Figure 5: Urban share of the poor against urban population share (countries and years)

(a) "$1 a day" poverty line
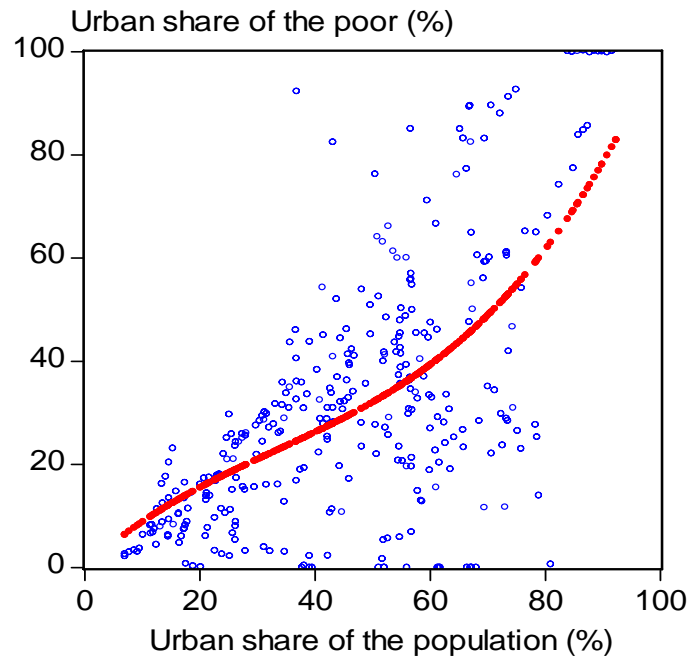
(b) "$2 a day" poverty line
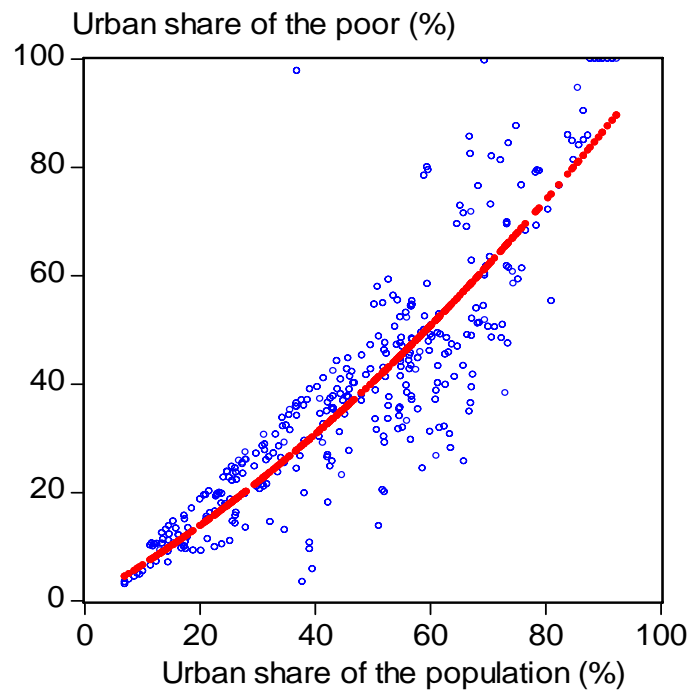
Table 1: Population-weighted urban poverty lines in 1993 PPP

	Urban poverty line ($/day; 1993 PPP) corresponding to a rural line of:	
	$1.08	$2.15
East-Asia and Pacific (EAP)	1.40	2.79
Eastern-Europe and Central Asia (ECA)	1.13	2.27
Latin America and Caribbean (LAC)	1.55	3.10
Middle East and North Africa (MNA)	1.19	2.37
South Asia (SAS)	1.40	2.79
Sub-Saharan Africa (SSA)	1.39	2.77
Total	**1.39**	**2.79**

Table 2: Number of countries by type of data

Region	Countries with rural/urban distribution data	Countries with urban-rural poverty lines Explicit in PA	Countries with urban-rural poverty lines Implicit in data files	No. countries for which regional mean is used
EAP	8	7	0	1
ECA	21	12	19	1
LAC	21	12	0	9
MNA	6	5	0	1
SAS	5	4	1	0
SSA	26	13	5	8
Total	**87**	**42**	**25**	**20**

Note: For region identifiers see Table 1.

Table 3: Urban and rural poverty measures using a poverty line of $1.08/day (in 1993 PPP)

	Number of poor in millions			Headcount index (%)			Urban share of the poor (%)	Urban share of population (%)
	Urban	Rural	Total	Urban	Rural	Total		
1993								
EAP	28.38	407.17	435.55	5.48	35.47	26.15	6.51	31.09
China	10.98	331.38	342.36	3.33	39.05	29.05	3.21	29.77
ECA	6.12	6.37	12.49	2.06	3.66	2.65	48.98	63.06
LAC	26.07	28.55	54.62	7.82	22.38	11.85	47.73	72.33
MNA	0.77	4.29	5.07	0.61	3.76	2.09	15.29	52.82
SAS	113.77	384.99	498.76	37.37	43.74	42.10	22.81	25.70
India	100.50	326.21	426.71	42.70	49.13	47.45	23.55	26.17
SSA	66.42	206.73	273.15	40.21	53.07	49.24	24.32	29.78
Total	**241.53**	**1038.10**	**1279.63**	**13.84**	**36.64**	**27.95**	**18.88**	**38.12**
Less China	230.55	706.72	937.27	16.28	35.61	27.56	24.60	41.64
1996								
EAP	18.99	264.63	283.62	3.28	23.00	16.40	6.70	33.49
China	6.59	204.60	211.20	1.68	24.80	17.35	3.12	32.24
ECA	7.77	9.15	16.93	2.60	5.26	3.58	45.93	63.19
LAC	31.00	29.05	60.05	8.69	22.75	12.40	51.62	73.64
MNA	0.75	5.05	5.80	0.53	4.23	2.24	12.88	53.92
SAS	123.01	405.05	528.06	37.11	43.81	42.04	23.29	26.39
India	110.53	344.45	454.98	43.46	49.60	47.96	24.29	26.81
SSA	82.32	221.37	303.69	43.41	53.97	50.63	27.11	31.62
Total	**263.84**	**934.31**	**1198.15**	**13.92**	**32.15**	**24.96**	**22.02**	**39.47**
Less China	257.25	729.70	986.95	17.12	43.22	27.54	26.06	41.93
1999								
EAP	19.18	263.16	282.35	2.97	23.49	16.09	6.67	36.10
China	6.93	220.78	227.71	1.59	27.00	18.16	3.04	34.89
ECA	7.42	10.65	18.07	2.48	6.11	3.81	41.08	63.23
LAC	33.90	29.85	63.75	8.91	23.50	12.57	53.18	74.97
MNA	1.31	5.17	6.47	0.87	4.19	2.37	20.18	54.83
SAS	128.43	411.35	539.78	35.71	42.51	40.67	23.79	27.10
India	110.68	329.83	440.51	40.36	45.51	44.09	25.12	27.45
SSA	92.05	228.85	320.90	42.57	53.14	49.61	28.69	33.43
Total	**282.30**	**949.03**	**1231.32**	**13.76**	**32.18**	**24.65**	**22.83**	**40.89**
Less China	275.36	728.25	1003.61	17.05	34.15	26.81	27.29	42.92
2002								
EAP	15.82	217.76	233.58	2.22	19.84	13.00	6.62	38.79
China	4.00	175.01	179.01	0.80	22.44	13.98	2.24	37.68
ECA	2.48	4.94	7.42	0.83	2.87	1.57	33.40	63.45
LAC	38.33	26.60	64.93	9.49	21.15	12.26	59.03	76.24
MNA	1.21	4.88	6.09	0.75	3.82	2.11	19.87	55.75
SAS	134.76	407.03	541.79	34.61	40.31	38.72	24.87	27.83
India	115.86	328.85	444.70	39.33	43.61	42.41	26.05	28.09
SSA	98.84	228.77	327.61	40.38	50.86	47.17	30.17	35.24
Total	**291.44**	**889.99**	**1181.43**	**13.18**	**29.74**	**22.73**	**24.55**	**42.34**
Less China	287.44	714.98	1002.42	16.80	32.29	25.57	28.52	43.40

Note: For region identifiers see Table 1.

Table 4: Urban and rural poverty measures using a poverty line of $2.15/day (in 1993 PPP)

	Number of poor in millions			Headcount index (%)			Urban share of the poor (%)
	Urban	Rural	Total	Urban	Rural	Total	
1993							
EAP	199.61	976.38	1175.99	38.55	85.07	70.61	16.97
China	117.33	752.19	869.52	35.57	88.64	73.79	13.49
ECA	43.60	34.49	78.09	14.68	19.83	16.58	55.83
LAC	75.92	60.35	136.28	22.77	47.30	29.56	55.71
MNA	15.96	40.82	56.78	12.49	35.75	23.46	28.11
SAS	240.82	771.19	1012.00	79.10	87.62	85.43	23.80
India	197.05	608.07	805.12	83.73	91.58	89.52	24.47
SSA	110.45	331.96	442.41	66.86	85.22	79.75	24.97
Total	**686.36**	**2215.19**	**2901.55**	**39.32**	**78.19**	**63.37**	**23.65**
Less China	569.04	1463.00	2032.03	40.19	73.72	59.76	28.00
1996							
EAP	168.89	812.11	980.99	29.16	70.60	56.72	17.22
China	101.47	598.05	699.52	25.85	72.49	57.45	14.51
ECA	49.77	39.81	89.59	16.67	22.90	18.96	55.56
LAC	95.12	61.14	156.26	26.66	47.87	32.25	60.87
MNA	17.57	44.78	62.34	12.58	37.53	24.08	28.18
SAS	264.37	815.11	1079.47	79.75	88.15	85.94	24.49
India	219.82	630.95	850.77	86.42	90.86	89.67	25.84
SSA	131.64	346.62	478.25	69.42	84.51	79.74	27.52
Total	**727.34**	**2119.56**	**2846.90**	**38.38**	**72.94**	**59.30**	**25.55**
Less China	625.87	1521.51	2147.38	41.65	90.11	59.92	29.15
1999							
EAP	165.72	794.26	959.98	25.66	69.69	53.79	17.26
China	89.22	593.80	683.02	20.46	72.62	54.48	13.06
ECA	50.07	44.46	94.53	16.72	25.53	19.96	52.97
LAC	102.65	61.56	164.21	26.99	48.47	32.36	62.51
MNA	20.73	48.81	69.54	13.85	39.57	25.47	29.81
SAS	276.08	849.49	1125.58	76.77	87.80	84.81	24.53
India	223.19	652.39	875.58	81.39	90.01	87.64	25.49
SSA	150.54	362.76	513.30	69.63	84.24	79.36	29.33
Total	**765.79**	**2161.35**	**2927.14**	**37.33**	**72.96**	**58.39**	**26.16**
Less China	676.58	1567.55	2244.12	41.89	73.08	59.69	30.15
2002							
EAP	126.26	708.43	834.69	17.71	63.22	45.56	15.13
China	53.45	507.48	560.93	10.68	65.07	43.81	9.53
ECA	32.07	32.22	64.29	10.71	18.69	13.63	49.88
LAC	111.08	58.36	169.44	27.51	46.39	31.99	65.56
MNA	19.90	48.12	68.02	12.36	37.64	23.54	29.25
SAS	296.55	880.80	1177.35	76.16	87.22	84.15	25.19
India	236.07	672.29	908.36	80.14	89.15	86.62	25.99
SSA	167.72	370.83	538.55	68.52	82.45	77.54	31.14
Total	**751.75**	**2098.76**	**2850.51**	**33.99**	**69.80**	**54.64**	**26.37**
Less China	698.29	1591.29	2289.58	40.81	71.45	58.16	30.50

Note: For region identifiers see Table 1.

Table 5: Decomposition of the change in poverty 1993-2002

	Total change in headcount index 1993-2002 (% points)	Decomposition		
		Rural sector	Urban sector	Population shift
$1.08/day				
EAP	-13.15	-9.57	-1.27	-2.31
China	-15.07	-11.04	-1.02	-3.01
ECA	-1.08	-0.29	-0.78	-0.01
LAC	0.41	-0.29	1.27	-0.57
MNA	0.01	0.03	0.08	-0.09
SAS	-3.38	-2.48	-0.77	-0.14
India	-5.04	-3.97	-0.95	-0.12
SSA	-2.07	-1.43	0.06	-0.70
Total	**-5.22**	**-3.98**	**-0.28**	**-0.96**
$2.15/day				
EAP	-25.04	-13.37	-8.09	-3.58
China	-29.98	-15.58	-9.95	-4.45
ECA	-2.96	-0.42	-2.52	-0.02
LAC	2.09	-0.22	3.27	-0.96
MNA	0.08	0.84	-0.08	-0.68
SAS	-1.28	-0.29	-0.82	-0.18
India	-2.90	-1.74	-1.01	-0.15
SSA	-2.21	-1.79	0.58	-1.00
Total	**-8.73**	**-4.84**	**-2.25**	**-1.64**

Note: For region identifiers see Table 1.

Table 6: Regression coefficients of poverty measures on urban population shares

	$1 a day poverty line		$2 a day poverty line	
	Urban	Rural	Urban	Rural
Regions by year (n=24)	-0.206 (0.161;0.218)	-1.116 (0.462;0.027)	-1.174 (0.704;0.114)	-1.419 (0.634;0.039)
Countries by year (n=348)	-0.254 (0.103;0.014)	-0.366 (0.134;0.007)	-0.351 (0.164;0.033)	-0.396 (0.176; 0.025)

Note: Both poverty measures and urban population share in %. The first number in parentheses is the White standard error, the second number is the prob. value; all regressions included regional or country fixed effects.

Table 7: Estimated elasticities of H^u/H to S^u by region

Region	$1 a day	$2 a day
EAP	1.419	0.270
	(0.489; 0.007; 32)	(0.104; 0.015; 32)
ECA	-0.073	0.262
	(0.373; 0.845; 61)	(0.228; 0.253; 84)
LAC	0.618	0.417
	(0.394; 0.121; 81)	(0.119; 0.001; 84)
MNA	-0.441	-0.038
	(0.113; 0.001; 24)	(0.152; 0.804; 24)
SAS	0.484	0.457
	(0.130; 0.002; 20)	(0.078; 0.000; 20)
SSA	0.218	0.154
	(0.067; 0.001; 103)	(0.045; 0.001; 104)
Total	**0.177**	**0.126**
	(0.077; 0.022; 321)	(0.023; 0.000; 348)
With regional	**0.351**	**0.206**
fixed effects	(0.091; 0.001; 321)	(0.040; 0.000; 348)

Note: The first number in parentheses is the White standard error, the second number is the prob. value and the third is the number of observations. The last row gives the regression for the total sample including a complete set of regional fixed effects. For region identifiers see Table 1.

Table 8: Poverty gap indices for urban and rural areas

	$1.08/day poverty line				$2.15/day poverty line			
	Poverty gap index (%)			Urban share of PG (%)	Poverty gap index (%)			Urban share of PG (%)
	Urban	Rural	Total		Urban	Rural	Total	
1993								
EAP	1.12	9.03	6.57	5.31	10.98	37.52	29.27	11.66
China	0.67	10.1	7.46	2.50	9.15	40.22	31.52	8.12
ECA	0.50	0.92	0.66	48.30	4.05	5.94	4.75	53.79
LAC	2.65	9.48	4.54	42.21	8.95	22.38	12.67	51.12
MNA	0.14	0.36	0.24	29.47	2.76	7.62	5.05	28.81
SAS	10.54	11.68	11.38	23.79	36.33	41.44	40.13	23.27
India	12.22	12.93	12.74	25.09	39.96	44.84	43.57	24.00
SSA	20.17	22.14	21.63	27.87	35.93	47.34	43.94	24.35
Total	**4.68**	**10.83**	**8.48**	**21.03**	**15.59**	**36.26**	**28.38**	**26.13**
Less China	5.62	11.14	8.84	26.45	17.10	34.57	27.30	26.08
1996								
EAP	0.66	5.15	3.65	6.06	7.68	27.23	20.68	12.44
China	0.32	5.44	3.79	2.75	6.03	28.45	21.22	9.16
ECA	0.62	1.40	0.91	43.34	4.81	7.44	5.78	52.60
LAC	2.64	9.51	4.45	43.70	10.42	22.65	13.64	56.22
MNA	0.10	0.84	0.44	12.16	2.65	10.08	6.08	23.53
SAS	10.33	11.00	10.82	25.18	36.25	42.32	40.72	23.49
India	12.47	12.77	12.69	26.34	40.95	45.87	44.55	24.64
SSA	20.28	24.02	22.84	28.08	39.29	48.16	45.35	27.39
Total	**4.64**	**9.47**	**7.56**	**24.23**	**15.53**	**32.89**	**26.04**	**23.54**
Less China	5.77	11.06	8.84	27.36	18.02	34.66	27.68	27.29
1999								
EAP	0.65	5.55	3.78	6.47	6.82	27.23	19.86	12.52
China	0.35	6.34	4.25	2.87	4.87	29.51	20.94	8.08
ECA	0.56	1.95	1.07	33.14	4.73	8.56	6.14	48.74
LAC	2.66	9.79	4.45	44.91	10.32	23.40	13.59	56.91
MNA	0.17	0.77	0.44	20.61	3.18	10.78	6.61	26.33
SAS	10.07	10.83	10.63	25.68	34.92	40.89	39.27	24.09
India	11.62	11.41	11.47	27.82	38.28	42.75	41.53	25.30
SSA	19.20	23.63	22.15	28.98	38.57	47.56	44.56	28.93
Total	**4.58**	**9.67**	**7.59**	**24.68**	**15.17**	**32.69**	**25.53**	**24.30**
Less China	5.72	10.80	8.62	28.49	17.95	33.74	26.97	28.57
2002								
EAP	0.51	4.43	2.91	6.75	4.69	23.80	16.39	11.11
China	0.238	4.96	3.11	2.99	2.33	25.34	16.35	5.57
ECA	0.21	0.67	0.38	34.82	2.55	5.38	3.58	45.13
LAC	3.01	8.60	4.33	52.86	10.46	21.44	13.07	61.03
MNA	0.15	0.74	0.41	19.98	2.79	10.06	6.01	25.92
SAS	9.69	9.64	9.65	27.94	34.27	39.69	38.18	24.98
India	11.36	10.63	10.84	29.45	37.47	41.66	40.48	26.00
SSA	16.67	22.53	20.46	28.70	36.56	45.84	42.57	30.27
Total	**4.30**	**8.68**	**6.83**	**26.68**	**14.05**	**30.68**	**23.64**	**25.17**
Less China	5.49	9.86	7.96	29.92	17.48	32.39	25.92	29.27

Appendix: Survey data sets by country, date and welfare indicator

Region	Country	Share of 2002 population represented (%)	Survey years	Welfare measure	Ratio of urban/ rural poverty lines (1993)
East Asia and Pacific		94.61			1.30
	Cambodia		1994, 2004,	Expenditure	1.23
	China		1993, 1999, 2002	Expenditure	1.37
	Indonesia		1993, 1999, 2002	Expenditure	1.11
	Laos		1992,	Expenditure	1.04
	Mongolia		2002,	Expenditure	1.16
	Philippines		1998, 2000	Expenditure	1.46
	Thailand		2002,	Expenditure	1.54
	Vietnam		1992/93, 1998, 2002	Expenditure	1.24
Europe and Central Asia		91.82			1.05
	Albania		1996, 2002	Expenditure	1.05
	Armenia		1998/99, 2001, 2002, 2003	Expenditure	1.02
	Azerbaijan		2001, 2002, 2003	Expenditure	1.01
	Belarus		1998, 2001, 2002	Expenditure	1.00
	Bulgaria		1995, 2001, 2003	Expenditure	1.04
	Estonia		2000, 2002	Expenditure	0.98
	Georgia		1997, 1999, 2002	Expenditure	1.02
	Hungary		1999, 2002	Expenditure	0.99
	Kazakhstan		1996, 2002	Expenditure	1.04
	Kyrgyz		1998, 2000, 2002	Expenditure	1.10
	Latvia		2002,	Expenditure	1.02
	Lithuania		1998, 2002	Expenditure	1.01
	Macedonia		1999, 2002	Expenditure	1.05
	Moldova		1997, 1998, 2002	Expenditure	1.06
	Poland		1999, 2002	Expenditure	1.04
	Romania		1998, 2002	Expenditure	1.17
	Russia		1998, 2002	Expenditure	1.07
	Tajikhstan		1999, 2002	Expenditure	1.06
	Turkey		2002,	Expenditure	1.03
	Ukraine		1996, 2003	Expenditure	1.04
	Uzbekistan		1998, 2002	Expenditure	1.04
Latin America and the Caribbean		96.67			1.44
	Argentina		1992, 1996, 1998, 2002, 2003, 2004	Income	1.43
	Bolivia		1997, 1999, 2002	Income	1.40
	Brazil		1990, 1993, 1996, 1998, 2001, 2002, 2003, 2004	Income	1.55
	Chile		1990, 1994, 1996, 1998, 2000, 2003	Income	1.43
	Colombia		1996, 1998, 2000, 2003	Income	1.25
	Costa Rica		1992, 1998, 2001, 2004	Income	1.36
	Dominican Rep		1992, 2000, 2003	Expenditure	1.06
	Ecuador		1994, 1998	Income	1.24
	El Salvador		1995, 1998, 2000, 2002	Income	1.71
	Guatemala		1998, 2000, 2002	Income	1.09

	Haiti	2001,	Income	1.43
	Honduras	1992, 1999, 2003	Income	1.41
	Jamaica	1990, 1996, 2000	Expenditure	0.90
	Mexico	1992, 1994, 1998, 2000, 2002	Expenditure	1.44
	Nicaragua	1993, 1998, 2001	Income	1.43
	Panama	1996, 2002,	Income	1.43
	Paraguay	1998, 2003	Income	1.43
	Peru	1994, 2002	Income	1.26
	Trinidad & Tobago	1992,	Income	1.43
	Uruguay	1992, 1998, 2001, 2003	Income	1.43
	Venezuela	1992, 1996, 2004	Income	1.43
Middle East and North Africa	69.56			1.10
	Egypt	1995, 1999/00	Expenditure	1.09
	Iran	1994, 1999,	Expenditure	1.13
	Jordan	2002/03,	Expenditure	1.13
	Morocca	1990/91, 1998/99	Expenditure	1.29
	Tunisia	1995, 2000	Expenditure	1.18
	Yemen	1998	Expenditure	0.99
South Asia	98.48			1.30
	Bangladesh	1991/92, 1995/96, 2000	Expenditure	1.29
	India	1993/94, 2005	Expenditure	1.37
	Nepal	1995/96, 2003/04	Expenditure	1.24
	Pakistan	1992/93, 1998/99, 2001/02	Expenditure	1.13
	Sri Lanka	1999/00, 2002	Expenditure	1.10
Sub-Saharan Africa	75.03			1.29
	Benin	2003,	Expenditure	1.79
	Botswana	1993/94,	Expenditure	1.45
	Burkina Faso	1994, 1998, 2003	Expenditure	1.45
	Burundi	1998,	Expenditure	1.45
	Cameroon	1996, 2001	Expenditure	1.45
	Cape Verde	2001,	Expenditure	1.45
	Cote d'Ivoire	1998, 2002	Expenditure	1.25
	Ethiopia	2000,	Expenditure	1.46
	Gambia	1998,	Expenditure	1.26
	Ghana	1991/92, 1998/99,	Expenditure	1.35
	Kenya	1994, 1997	Expenditure	1.45
	Lesotho	1995,	Expenditure	1.45
	Madagascar	1997, 2001	Expenditure	1.14
	Malawi	2004/05	Expenditure	1.45
	Mali	1994, 2001	Expenditure	1.45
	Mauritania	1995/96, 2000	Expenditure	1.10
	Mozambique	1996/97, 2002/03,	Expenditure	1.67
	Niger	1994/95,	Expenditure	1.50
	Nigeria	1996/97, 2003	Expenditure	1.05
	Rwanda	1997, 2000	Expenditure	1.45
	Senegal	1994/95, 2001	Expenditure	1.63
	South Africa	1995, 2000	Expenditure	1.45

Swaziland		2000/01,	Expenditure	1.45
Tanzania		1991/92, 2000/01	Expenditure	1.21
Uganda		1992/93, 1999, 2002	Expenditure	1.10
Zambia		1996, 1998, 2002/03	Expenditure	1.45
Total	94.46			1.30

Notes: The ratio of rural to urban poverty lines by region and total is a population weighted average.