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A Review of Recent Research into Poverty in Ireland

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1. Introduction

One of the perhaps paradoxical features of Ireland’s recent economic boom has been the increased attention devoted to the study of poverty. This probably arose due to a number of factors. First, the last ten years or so has seen the availability of datasets which enable proper measurement of poverty to be carried out. In this sense the Living in Ireland survey carried out by the Economic and Social Research Institute (ESRI) and the earlier Survey of Income Distribution, Poverty and Use of State Services also carried out by the ESRI are landmarks in the area of poverty research in Ireland. The availability of individual data from the Household Budget Survey (HBS), carried out approximately every seven years by the Central Statistics Office (CSO), to researchers in a more computer-friendly format has also facilitated research into poverty but, as will be argued below, the HBS has so far been a comparatively underused resource.

The record growth levels in recent years have also led to greater funding for research into poverty and the role of the Combat Poverty Agency (CPA) must be noted here. The CPA was actually founded in 1986 before the boom of the 1990s but the resources available to the agency and other bodies have naturally benefited from the benign state of the public finances (although this may not be the case in the immediate future).

The CPA and other bodies also played an important role in ensuring that even while economic growth was reaching record levels, attention should still be addressed to how growth was distributed across the population and how it was affecting measured poverty. The climax of this was the publication in 1997 of the National Anti-Poverty Strategy (NAPS) which specifically placed a reduction in poverty as part of government policy and outlined a number of medium-term targets. In particular, the NAPS states that relevant government policies must be “poverty-proofed” in the sense that their expected impact on poverty must be evaluated.

Thus it is clear that poverty analysis is an important element of economic and social research in Ireland. This article reviews some of the more important elements of this research in Ireland. First of all the measurement of poverty is discussed. The article then reviews some of the published evidence on poverty in Ireland. Finally, some concluding comments and areas for future study are suggested.

2. Measuring Poverty

Poverty measurement typically involves two issues: identification and aggregation. The first of these involves the identification of those households (or individuals depending upon the choice of unit of analysis) who are poor. The second issue involves aggregating information about the number and circumstances of the poor households into a single index. Such aggregation will usually involve the loss of

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1 A Revised version of this paper appear in the Winter 2002 edition of the Irish Banking Review
2 Note that by “Ireland” we mean the Republic of Ireland.
some detail but nevertheless it may be a worthwhile price to pay to reduce a complex phenomenon to a single dimension.

Dealing first with the identification issue, this is generally carried out via the use of a poverty line. However, before a poverty line can be identified a decision must be made as to the relevant measure of household resources. The two main contenders are income and consumption. Both measures have their advantages and disadvantages. Certain components of income are difficult to measure e.g. income from self-employment. It is also the case that cross-section studies typically provide income measures which are snapshots in time and thus take no account of the difference between transitory and permanent income. Since consumption/expenditure decision are usually made with reference to permanent income then it can be argued that expenditure measures are preferable.

However consumption measures are not without their drawbacks. Expenditure on items such as alcohol, tobacco or gambling may be under-reported. Also, although we use the terms interchangeably here, expenditure and consumption are not always the same. For example, expenditure over a two-week period may not be a reliable measure of consumption, particularly for mature households who may have a large stock of durables from which they derive services.

However a further problem which is specific to the HBS is that income observations are “top-coded” i.e. values of income in excess of say £800 per week are simply entered as £800 per week. Thus the distribution of income is censored on the right hand side at a value of £800. This causes problems when calculating a poverty line which is a certain percentage of mean income (it does not arise when using median income).

The *Living in Ireland* survey upon which the ESRI analysis for Ireland is based does not record consumption. However, the HBS records both consumption and income and as will be seen below, results can be sensitive to the measure of resources employed.

Another factor which is crucial is the adjustment of income/consumption for household size and composition. Clearly €300 per week has different implications for the welfare of a household consisting of two adults and four children, compared to a household merely consisting of one adult. Thus adjustments to income/consumption must be made to reflect both the size (the number of people) and the composition (the breakdown between adults and children) of the household. Such an adjustment is termed the application of an equivalence scale. Typically there is no “ideal” equivalence scale and so results of poverty studies have to be checked for their sensitivity to the choice of equivalence scale. While overall trends in poverty are unlikely to be unduly affected by the choice of equivalence scale the measured risk of poverty for specific households (e.g. households with children compared to households without children) may be sensitive.

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3 O Neill and Sweetman (1999) find higher poverty rates for the self-employed when income is used as the measure of household resources compared to when consumption is used.
4 See Lewbel (1997) for a comprehensive discussion of equivalence scales.
Once the measure of household resources has been chosen a poverty line must then be identified. There is insufficient space to discuss this in detail and a good survey can be found in Callan and Nolan (1991). However, one general issue which is worthy of discussion is the choice between an absolute or a relative poverty line. Assuming that income is chosen as the relevant measure of household resources let \( z \) be poverty line income. The choice is then between an absolute or a relative poverty line, \( z_a \) or \( z_r \) respectively.

An absolute poverty line may be defined with respect to the cost of purchasing a minimum basket of necessities and, as its name suggests, this basket may remain unchanged even though incomes as a whole in the population in question may be increasing. Examples of such lines are the official poverty line in the US. Note that while such poverty lines may be updated occasionally (as is the case with the US), they are still absolute in the sense that they are not defined relative to any summary measure of income for the population as a whole.

Even absolute poverty lines are rarely cast in stone in the sense that they are completely unchanging over time. Poverty lines may be updated to reflect changes in the overall standard of living and expectations in society. Many people view it as unreasonable that what was accepted as a minimum standard of living fifty years ago should also be accepted today. A purely relative measure is one that is defined as a certain fraction of some central summary statistic, e.g. the mean or median, of population incomes. Thus the poverty line may be a set percentage of mean income. Alternatively, given that income is rarely symmetrically distributed a certain percentage of median income may be chosen. Note that the adoption of such a measure does not amount to measuring inequality (although the poverty index in this case will only change if there is a change in the income distribution) and nor does it necessarily mean that “the poor are always with us” (see Atkinson, 1975).

However, the choice of a poverty line does not have to be so stark between absolute or relative. It is possible to choose a hybrid between the two. Foster (1998) has suggested the adoption of a weighted geometric average of a relative and an absolute threshold, \( z = z^\rho z_a^{1-\rho} \) where \( 0 < \rho < 1 \). This form of line has the property that a one per cent increase in the central measure of income leads to a \( \rho \) per cent increase in the poverty line. Thus \( \rho \) is the income elasticity of the poverty line and as Foster expresses it, the absolute/relative debate now becomes a question of “how relative?” with \( \rho \) the relevant decision variable. For example, if the poverty line is to be central in the setting of income support payments then the choice of \( \rho \) may decide the extent to which the poor share in economic growth. But how do we choose \( \rho \)? Ultimately this is a normative question and as such there is no “right or wrong” answer.

Once the decision has been made regarding the choice of poverty line, there is then choice of aggregator. This can range from a simple count of the numbers of units below the poverty line to more complicated measures which take account of the distribution of income amongst the poor. Broadly we can identify three classes of aggregators: headcount measures, gap measures and weighted gap measures. Suppose the number of people with incomes less than or equal to \( z \) is given by \( q \). If
the total number of people in the community is \( n \), then we have our first poverty measure known as the *Headcount Ratio*, \( H \), where \( H = \frac{q}{n} \).

The deficiencies of \( H \) as a poverty measure have been well documented. It takes no account of the depth of poverty i.e. someone just below the poverty line has the same weight as the very poorest of the poor. It is also fails to obey the *principle of transfers* i.e. a transfer of income from a poor person to a rich person does not increase \( H \). Indeed, if the recipient of the transfer is just below the poverty line and the transfer raises him just above the poverty line, then the transfer will have reduced poverty. This gives rise to the situation where the most effective means of reducing measured poverty is to target the comparatively best-off of the poor. Despite these drawbacks, the headcount ratio is still perhaps the most widely quoted poverty measure, probably because of the ease of interpretation, an important factor when trying to make poverty measurement relevant to policy-makers.

If we wish to take account of the depth of a poor person’s poverty then we can examine their income gap \( g_h = z - y_h \), where \( g_h \) is the gap for household \( h \) and \( y_h \) is its income. Then the overall distance of the incomes of the poor from the poverty line can be measured by an aggregate gap measure. Thus if \( \mu_p \) is the mean income of the poor population, the income-gap ratio \( I = \frac{z - \mu_p}{z} \) reflects the average shortfall of the incomes of the poor expressed as a share of the poverty-line income \( z \). While \( I \) does take account of the depth of poverty, it does not tell us how many people are poor and since it also does not obey the principle of transfers, it does not take account of the distribution of income amongst the poor.

The problems associated with \( H \) and \( I \) led to the development of distribution-sensitive measures of poverty, whereby the poverty index is a sum of the weighted gaps for each poor household. Sen (1976) originally proposed that the weight for each household reflect its rank amongst the poor, with higher weights being assigned to poorer households. This approach has been largely superseded by the approach of Foster, Greer and Thorbecke (1983) who proposed that the weight on a poor household’s income gap should be given not by their rank amongst the poor but by some function of the gap itself. Their class of measures which are often referred to as the \( P_\alpha \) class can be written as \( P_\alpha = \frac{1}{n} \sum_{h=1}^{q} g_h^\alpha \). Thus when \( \alpha=0 \), \( P_\alpha=H \), the headcount ratio, while if \( \alpha=1 \) we have \( P_\alpha=HI \), the per capita income-gap. Most usually \( \alpha=2 \) and so the measure is the sum of the squared gaps divided by the total number of households. While this measure probably has the most attractive theoretical properties, it suffers from the fact that the statistic on its own has no clear intuitive interpretation and thus is only of use on a comparative basis.

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5 For a discussion of this in the context of poverty alleviation in developing countries, see Collier and Dollar (2002).
6 More generally the weight may be the gap raised to a power but typically it is just the gap itself (i.e. raised to a power of one).
Some authors have questioned the approach of identifying the poor solely as those below the poverty line, since it awards an importance to the choice of poverty line which may not be warranted. For example, in many respects, the standard of living of a household just below the poverty line and that of one just above the poverty line may be indistinguishable. Yet the first household is “poor” while the second is not. Many commentators have suggested that poverty is not a discontinuous phenomenon which ceases as soon as a household’s income goes above the poverty line. As Deaton puts it: “Perhaps the best poverty line is an infinite one; everyone is poor but some a good deal more than others, and the poorer they are the greater the weight they should get in measuring welfare and in policy evaluation” (Deaton, 1997, p. 144).

It is also clear from the above review that poverty analysts have a considerable range of choice as to how they measure poverty. Perhaps more pointedly it raises the possibility that results obtained will be sensitive to the choice of poverty line and/or index chosen. This issue has been addressed by Atkinson (1987) and Shorrocks (1995). Rather than comparing specific poverty measures for two income distributions, they examine whether dominance relations hold in the sense that one income distribution would be ranked as having more poverty than another distribution for all poverty measures satisfying certain properties (this approach can encompass both the issue of the poverty line and the method of aggregation). Of course, when dominance relations do not hold, then it is always possible to find different poverty measures which will rank the two distributions differently, and the choice of poverty line/measure becomes crucial again.

Before reviewing published work on poverty in Ireland there is one further approach to measuring poverty which is worthy of mention. This method has its roots in the influential work of Townsend (1979) and rests on the idea that if people are so deprived as to lack the resources to participate in the customary activities in society and thus in some sense are excluded from society, then they may be regarded as being in poverty. The key then is to identify these goods/activities and assign a “score” to each household. Households are considered to be poor in this sense if their deprivation score exceeds a given threshold (see Nolan et al. (2002) for a more detailed account). This approach is partly motivated by the observation that not all households which are defined as “income poor” in the sense outlined above appear to be excluded or deprived. Similarly some households which are not income poor appear to be excluded and/or deprived.

This measure is of particular relevance for Ireland since it is very close to the definition of poverty employed in the National Anti-Poverty Strategy.

The next section reviews published work in Ireland in the area of poverty. The review confines itself to research based on nationally representative samples and thus does not cover many valuable, small-scale studies which have been carried out.

3. The Evolution of Poverty in Ireland in the 1990s.

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7 See Madden and Smith (2000) for an application of poverty dominance to Irish data.
8 Madden (2000) uses the income elasticity of these goods as a measure for \( \rho \), the income elasticity of the poverty line and obtains a value of around 0.5.
9 For an example of some of this work see the Combat Poverty Agency website [http://www.cpa.ie/](http://www.cpa.ie/)
As stated in the introduction the main source of published work on poverty in Ireland in the recent past has been the series of books, reports and articles produced by the ESRI. This body of work has made an enormous contribution to the study of poverty in Ireland using the Living in Ireland survey and its predecessor the Survey of Income Distribution, Poverty and Use of State Services. The Living in Ireland survey also comprises the Irish part of the European Community Household Panel (ECHP) dataset which conducts harmonised longitudinal (i.e. following the same households over time) surveys within the EU. Thus it is ideally suited for comparison purposes with other countries in the European Union.

Below we reproduce the headcount ratio for individuals for three different relative poverty lines. This data is taken from table 3.2 in Nolan et al. (2002) using what the ESRI term equivalence scale C i.e. the first adult in a household takes a value of 1.0, each additional adult takes a value of 0.7 and a child (i.e. aged under 14 years) takes a value of 0.5. The poverty line is based upon the average of income within a household.

<table>
<thead>
<tr>
<th>Poverty Line</th>
<th>Percentage of Persons below Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>40% mean income</td>
<td>11.8</td>
</tr>
<tr>
<td>50% mean income</td>
<td>21.8</td>
</tr>
<tr>
<td>60% mean income</td>
<td>32.2</td>
</tr>
</tbody>
</table>


Two figures for 1994 are included. 1994(1) refers to the figures for 1994 contained in Callan et al (1996), while 1994(2) refers to the 1994 figures in Nolan et al (2002). There is a clear discontinuity but both figures are included so that some assessment can be made regarding the change between 1987 and 1994.

The results show that following a fall in poverty between 1987 and 1994, over the 1994-2000 period relative poverty rose for the lowest and second lowest poverty line and marginally increased for the highest poverty line. There are a number of remarks which should be made.

First, since these results are based upon sample data there are associated standard errors and so it is important to know whether changes in poverty are statistically significant or have come about owing to sampling variation. Unfortunately the ESRI do not report standard errors in their tables and so it is not possible to assess the reliability of their results. In the case of large changes in poverty e.g. the change in the headcount ratio from 6.8% for the 40% poverty line in 1994 to 10.0% in 2000 the

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10 For a representative sample of this work see Callan et al (1996), Nolan et al (2002) and the references therein.
likelihood is that the change is statistically significant, but it is essential that such results are formally confirmed.

Second, as explained above changes in poverty measures which are based upon a purely relative poverty line will only come about via a change in the income distribution. Thus the results in table 1 do not tell us whether the individuals reported above as being in poverty experienced a real increase in their standard of living.

Following on from this, as Nolan et al (2002) point out, while a purely relative poverty line may be the most preferable alternative, it can be misleading during an era of exceptionally high growth, as was the case in Ireland for the 1994-2000 period. This is confirmed below in table 2 which shows the change in poverty when an absolute poverty line, based on a 1994 relative income standard is used.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Real Income Standard</strong></td>
</tr>
<tr>
<td>40 % line</td>
</tr>
<tr>
<td>50 % line</td>
</tr>
<tr>
<td>60 % line</td>
</tr>
</tbody>
</table>


These figures clearly reflect the improvement in living standards following from the recent high growth period.

As stated in the previous section however, the headcount ratio, while informative in some dimensions, also suffers from a number of deficiencies, particularly in its inability to pick up the depth of poverty. Tables 3 and 4 below show poverty over the 1994-2000 period using a gap and a weighted gap measure, the latter taking account of the distribution of income among the poor.

These tables are not strictly comparable with tables 1 and 2 since the poverty lines used here are a fraction of median as opposed to mean income.

<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Poverty Line</strong></td>
</tr>
<tr>
<td>50 % median</td>
</tr>
<tr>
<td>60 % median</td>
</tr>
<tr>
<td>70 % median</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poverty Line</th>
<th>Percentage of Persons Below Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 % median</td>
<td>0.0027</td>
</tr>
<tr>
<td>60 % median</td>
<td>0.0067</td>
</tr>
<tr>
<td>70 % median</td>
<td>0.0147</td>
</tr>
</tbody>
</table>


Once again evaluation of these tables is hampered by a lack of standard errors but there does seem to be evidence of an increase in poverty over the period. The one exception appears to be between 1994 and 1997 for the poverty line based upon 70% of median income. Here there is an increase in poverty as measured by the income gap, but the distribution sensitive measure shows a fall, indicating a change in income distribution amongst the poor.

How do these figures compare with the situation in the rest of Europe. The table below shows poverty rates for 60% of median equivalised income for the EU member states for 1997 and 1998.

<table>
<thead>
<tr>
<th>Country</th>
<th>1997</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Belgium</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>Denmark</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Finland</td>
<td>8</td>
<td>n.a.</td>
</tr>
<tr>
<td>France</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>Germany</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>Greece</td>
<td>23</td>
<td>22</td>
</tr>
<tr>
<td>Ireland</td>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>Italy</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>Netherlands</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>Portugal</td>
<td>24</td>
<td>20</td>
</tr>
<tr>
<td>Spain</td>
<td>20</td>
<td>19</td>
</tr>
<tr>
<td>Sweden</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>UK</td>
<td>22</td>
<td>21</td>
</tr>
<tr>
<td>EU</td>
<td>17</td>
<td>18</td>
</tr>
</tbody>
</table>

Source: Eurostat

The table shows that Ireland was above the EU average in 1997 but below it in 1998. It also reveals a fairly clear distinction between the Nordic countries of Denmark, Sweden and Finland who all have poverty rates in single figures and the more southerly European countries such as Greece, Portugal and Spain. Ireland is amongst the countries in-between but clearly nearer the southern than Nordic countries.

As mentioned above, income is not the only measure of household resources, nor is the location of a household below a poverty line the only means of identifying poverty. This section of the paper looks at the evolution of poverty using consumption as the measure of resources and also its evolution when the deprivation approach associated with Townsend is employed.
The infrequency with which the HBS is carried out in Ireland means that analysis of poverty on the basis of consumption is quite limited. In table 6 below the headcount ratio for 1987 and 1994 is reported for three different definitions of household resources (a) income as measured by *Living in Ireland* and the earlier *Survey of Income Distribution, Poverty and Use of State Services*, (b) income as measured in the HBS and (c) consumption as calculated from the HBS. These figures are taken from Callan et al (1996) and Madden (1999). Note that to ensure comparability between the results it is the percentage of households below the poverty line, not the percentage of individuals. Madden’s calculations from the 1987 and 1994 HBS also calculated the relevant standard errors and the asterisks for 1994, Income, HBS, for the 40% and 60% poverty lines indicate that the difference from the corresponding measure in 1987 is statistically significant at the 99% level.


<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>40% mean</td>
<td>8.9</td>
<td>7.3</td>
<td>9.9</td>
<td>7.0</td>
<td>6.2**</td>
<td>10.8</td>
</tr>
<tr>
<td>50% mean</td>
<td>17.6</td>
<td>16.3</td>
<td>19.6</td>
<td>16.9</td>
<td>16.8</td>
<td>20.1</td>
</tr>
<tr>
<td>60% mean</td>
<td>27.7</td>
<td>27.1</td>
<td>29.5</td>
<td>33.3</td>
<td>31.3**</td>
<td>30.2</td>
</tr>
</tbody>
</table>


Table 6 shows that poverty developments as calculated by income do not always conform with those as calculated by consumption. Developments in income poverty are broadly the same regardless of whether the ESRI or HBS surveys are used. However, using the lowest of the poverty lines we note a fall in poverty which is statistically significant using HBS income (and accords with ESRI income) yet as measured by consumption we see a rise, albeit not statistically significant, in poverty. Madden speculates that the discrepancy between income based poverty and consumption based poverty may be due to greater consumption smoothing among poor households in the 1987-94 period, perhaps reflecting an element of precautionary saving at the beginning of the recent economic boom. Proper analysis of this issue must await the availability of the 1999 HBS in micro format. In the meantime it is well to be aware that income and consumption based poverty measures can sometimes tell different stories. Bear in mind also that even if overall poverty rates are similar for income and consumption the particular households identified as poor may be different (see footnote 10).

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For another analysis of this issue see O’Neill and Sweetman (1999) who compare both inequality and poverty using measures of income and consumption. They find there can be quite considerable differences between those households deemed as “income-poor” and those deemed as “consumption-poor”.

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What about poverty analysis based upon the deprivation approach of Townsend? Both Callan et al (1996) and Nolan et al (2002) analyse this for Ireland using the Living in Ireland Survey. In choosing goods the absence of which indicate various degrees of deprivation they look at items which were identified as being necessities by a majority of the population and also possessed by a majority of the population. They constructed three dimensions of deprivation from the 1994 survey i.e. they identify three distinct groups defined by those items that are more highly correlated with each other that with the other items. The three dimensions so identified are: (1) basic life-style deprivation consisting of basic items such as food and clothes (2) secondary life-style deprivation consisting of items such as a car, telephone and leisure activities and (3) housing deprivation consisting of items related to housing quality and facilities. Remarkably when carrying out the same analysis for the 2000 survey they found that broadly speaking the same goods were included in each dimension.

They then defined what they term consistent poverty which is the situation where a family is both income poor and poor as indicated by the presence/absence one of the eight basic lifestyle deprivation indicators. Table 7 below shows the evolution of this consistent poverty over the 1994-2000 period.

<table>
<thead>
<tr>
<th>Poverty Line</th>
<th>Percentage of Persons Below Line and Experiencing Basic Deprivation</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 % median</td>
<td>3.5</td>
</tr>
<tr>
<td>60 % median</td>
<td>8.3</td>
</tr>
<tr>
<td>70 % median</td>
<td>14.5</td>
</tr>
</tbody>
</table>


These figures echo those of table 2 in that they show the improvement in living standards in recent years. As Nolan et al (2002) point out however, it may be the case that the set of deprivation indicators employed for the 1994-2000 period may have to be updated when looking at poverty targets for the medium term, although they acknowledge how “well” the original set of indicators identified in the 1994 survey performed in the 2000 survey.

4. Conclusion

This article has indicated the scope of research into poverty carried out in Ireland over the last fifteen years or so. The marked improvement in living standards and reduction in consistent (if not in relative income) poverty over the period has also been a very welcome development. Here are some (the list is by no means exhaustive!) issues future research might like to address:

12 Note for a household to be “deprived” it must be the case that the deprivation in question is enforced through financial circumstances and does not arise owing to household tastes.
• How much of the improvement in absolute and consistent poverty over the recent period can be accounted for by improvements in macroeconomic conditions in general and how much by specific policy interventions?

• What is the degree of correspondence between those households identified as poor via the three possible measures of resources viz. income, consumption and deprivation? This extends the work of O’Neill and Sweetman (1999) ands can only be carried out using the HBS. In general greater analysis using the HBS would be welcome as it remains an underused resource in this area.

• More analysis on what happens within households as well as what happens across households

• Greater integration between measures of poverty and other measures which clearly impact upon personal welfare such as health.

In some cases preliminary work in these areas has already begun. Even though macroeconomic developments in the medium term will not be as favourable as in recent years, it is to be hoped that research into poverty and welfare will expand in both breadth and depth.
References


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