From Noise to Signal: The Successful Turnaround of Poverty Measurement in Colombia

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In the mid-2000s, poverty measurement in Colombia was at a standstill. A dated poverty measurement methodology was clashing with improvements in the national household survey system. As a result, official poverty rates showed volatile trends, and a weak communication strategy produced an unconvincing storyline, which further resulted in the rapid deterioration of indicator credibility. This happened during a period of high and sustained growth that also included a number of poverty reduction interventions, such as the flagship program Familias en Acción and the Unidos strategy. The public debate on poverty lost focus and moved from substantial policy discussions to technical measurement methods.

This note summarizes the main lessons learned from government efforts, supported by national and international experts, including the World Bank, to restore credibility to the official methodology for poverty measurement in Colombia. These lessons are valuable for both low- and middle-income countries that might need to face the difficult task of revising their official poverty methodology, or any other politically sensitive indicator (see box I for a summary of the lessons learned).

The World Bank’s engagement in this process had four primary objectives: (i) ensure that poverty figures are backed by international practices; (ii) help build interagency consensus and foster transparency; (iii) lend credibility as an active member of a poverty committee; and (iv) share knowledge gained through participation in similar regional experiences. Providing clarity and transparency on the technical challenges of poverty measurement enables both country governments and the Bank to focus their attention on a more fruitful discussion of poverty trends and policy implications.

In 2006, the Colombian National Department of Administrative Statistics (DANE) sought to improve its primary household survey (the Encuesta Continua de Hogares, ECH), and introduced a series of changes. The revised survey was introduced as the Gran Encuesta Integrada de Hogares (GEIH). However, important methodological steps to ensure that these changes did not affect the comparability of the data with previous surveys were not taken. When such changes are made to household surveys, it is highly recommended that the older methodology be simultaneously implemented along with the new methodology to understand how the new methodology affects measurement. Without a counterfactual, there is no way to detangle changes in data results attributed to the change in methodology versus those attributable to actual changes in the realities of the people surveyed.
The MESEP was able to draw several important conclusions from the first phase that contributed to its work going forward. Experts concluded that the new survey methodology implemented in the GEIH did have a positive effect on data quality: the changes represented an improvement in capturing the reality of people surveyed. Going forward, the MESEP Committee decided to anchor the new variables in the GEIH (the newer methodology) and adjust the variables used in the ECH (the previous survey) from 2002–5, according to appropriate comparability scales derived from the Encuesta Continua de Hogares Paralela. The MESEP committee concluded that reporting data/statistics for 2006 and 2007 would be imprudent given the methodological changes that took place.
The poverty measurement methodology being used by Colombia had not been updated since 1998, and at that time was using data from the 1994/1995 Household Budget Survey to construct its poverty line. Since then, Colombia has conducted a newer Household Budget Survey (2005/2006) and moved to a continuous and integrated system of household surveys, namely the GEIH. Given the dated poverty methodology and the availability of a newer Household Budget Survey, the work of the MESEP’s second phase focused on the full revision of the poverty measurement methodology.

The Colombian poverty line had historically been set higher than the regional average. An examination of the purchasing power parity (PPP) equivalent of the national poverty lines in Colombia reveals that they are roughly twice the average of those used in the rest of Latin America. The Colombian poverty line has been an outlier since it was first produced. However, this choice had never resulted in a significantly higher poverty rate because the government of Colombia had also followed the practice of adjusting the income data to the national accounts, which resulted in reduced poverty statistics—reduced from the high levels that would have been generated with the abnormally high poverty line. The effect of making the adjustment is not trivial. Comparing adjusted and unadjusted data showed that in some time periods, the trends have opposite signs, given important differences between the system of household survey and the national accounts (Ravallion 2003; Korinek, Mistiaen, and Ravallion 2006). More importantly, such adjustment, based on a multiplication of a constant factor to selected components of the welfare aggregate, such as labor, capital and pensions, implicitly assumed the entire discrepancy between a particular component and the national account aggregate is distributional neutral, which is very hard to justify (Leyva-Parra 2005; MESEP 2012).

Given this context, the objective of the second phase of the MESEP Committee was to recommend a new official methodology to measure poverty, which would: (i) revise both the poverty line and the income aggregate used and (ii) propose an institutional arrangement going forward that would help shield the poverty and inequality measures of Colombia. The second phase of the MESEP concluded after 25 working sessions and 35 technical briefs, which were jointly prepared by the DNP and DANE technical secretariat.

The final numbers were announced on August 24, 2011, at a large international conference chaired by President Santos, which was followed by a subsequent series of technical workshops, publications, and legislation to solidify the revised methodology. More specifically, this process also included following one of the main recommendations of the MESEP, namely, the electronic publication of the anonymized microdata (see box 2 for more details on the Colombia Microdata dissemination) and algorithms required replicate the revised poverty methodology (DANE 2011).

In addition, the National Council for Social and Economic Policy (CONPES), the highest level economic and social policy coordination body in Colombia, published specific guidelines on how monetary poverty in Colombia should be measured going forward, and more importantly, what the specific roles of the National Office of Statistics, Ministry of Planning, and Ministry of Social Protection should be in this process (CONPES 2012). To strengthen the credibility of the new series, the experts also recommended parallel publication of both the old and new numbers for at least two years to mitigate any speculation regarding the political convenience of the methodological revision.

**Going Forward**

In October 2012, DANE launched a new poverty committee and started to work within the revised framework, which clearly attributed DANE as the producer of the indicators; DNP as the validating institution responsible for replicating the calculations; and the Ministry of Social Protection (DPS) as a critical stakeholder responsible for designing Colombia’s poverty reduction strategy.

As the monetary poverty measurement methodology in Colombia has gained credibility, the country has been able to measure its progress and focus on new challenges, such as its high inequality and how to promote prosperity for all. Colombia also used the institutional arrangement developed under the MESEP to regulate the production and dissemination of other critical indicators, such as its multidimensional poverty index, also regulated by CONPES (2012).

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