1. The renewed interest in poverty statistics.

Poverty has been a constant presence in man’s history, but its meaning has changed through time\(^1\). Most people in traditional societies were poor, and this was accepted as natural and unavoidable. The current understanding, today, is that the condition of poverty is unacceptable, and that it should be possible to find the ways to eradicate it. Many reasons have been presented for this change of views, of which three seem to be more salient. The first is ethnical and moral: the notion that all human beings are equal, and should be entitled not only to civil and political rights, but also to social rights such as food, shelter, education and personal security. This notion has been gathering increased support for two centuries or more, and is becoming still more intense as the plight of socially deprived populations are exposed daily to whoever has access to a TV set or a radio. The second is more practical and less altruistic: poverty, particularly when associated with war and economic disorder, leads to social unrest, reduces the values of salaries and goods, leads to national and international migration, and threatens the life styles of those who are better off.

The third is more conceptual. In the past, Industrialization, the development of science and technology and the spreading of education led to general belief that the problems of poverty, ignorance and deprivation were about to disappear, either through the expansion of private entrepreneurship or through the purposeful and rational action of governments and international organizations, or some combination of them. Malthus’ pessimism was obfuscated by the image of “unbounded Prometheus”, an endless expansion of wealth and well-being; this image was prevalent both in capitalist and in socialist countries, and adopted by the developing countries in the Southern Hemisphere in their drive for political independence and socioeconomic development.

According to this view, If you did not work, but wanted to, you were not poor, but unemployed. Economic fluctuations created unemployment, and the 1929 crisis produced millions of unemployed in the United States and Europe. Different from poverty, unemployment was understood to be a by-product of modern industrial economy, and mechanisms had to be devised to reduce it, or compensate for its consequences. Everybody, in principle, should have a stable work in a modern economy, and action was needed when it did not happen. Anti-cyclic policies, on one hand, and unemployment compensation, on the other, were landmarks of the post 1929, Welfare State capitalism. Unemployment had to be measured, and proper statistics should be devised for that, but it should not be confounded with poverty. To be unemployed was an attribute of industrial workers, not of people outside the productive system - housewives, old people, beggars, the lumpen proletariat. The current standard statistical definition of unemployment, adopted and implemented by the International Labor Organization, measures precisely that. Unemployed are those who are without jobs, but are actively looking for one, or living from unemployment benefits. If you are not looking for a job, if you live from welfare, if you live from handouts from your family, if you beg in the streets, you are not unemployed, but simply outside the economically active population. Unemployment statistics became an excellent instrument for measuring the short-term fluctuations of

economic activity and to devise policies for unemployment compensations and safety nets, and the widespread use of similar methodologies allowed for meaningful international comparisons.

The assumption that economic development by itself would provide everybody with an adequate job, however, is now being questioned in industrialized countries, and never really existed in developing and underdeveloped societies, where most of the population remained and still remain outside the mainstream of production and access to essential goods and services. The growing awareness and concern with the problems of poverty, expressed in recent years in several summit conferences and the growing presence of the poverty issue in the agenda of national governments and international organizations has led to a renewed need to measure and understand the realities of poverty in its different manifestations, as a first step to devise policies to reduce it or at least to respond to its more dire consequences, and to monitor its course.

2. Absolute and relative poverty

What is poverty? Who defines it? To what extent is the development of regular systems of poverty statistics influenced by the agendas of governments, political and religious groups and associations? How does the existence of such data affect public opinion and policies? Like all major statistical constructs, the definition of poverty and associated measurements are not just a technical matter, but are shaped by a confluence of social concerns, governmental demands, the contributions of researchers in economics and the social sciences, and the technical expertise of professional statisticians.

Two very broad concepts of poverty are being utilized today by statistical agencies and researchers throughout the world, responding to different concerns. One is the concept of absolute poverty, understood as the minimum set of resources a person needs to survive. The other is the concept of relative poverty, a measurement of the resources and living conditions of parts of the population in relation to others. Absolute poverty is a matter of acute deprivation, hunger, premature death and suffering; in practice, it may be difficult to measure it in a consistent way, but the consensual understanding is that this is an intolerable situation, requiring prompt corrective action. The measurement of relative poverty, on the other hand, is more a matter of social equity, and is associated with the development of policies for the reduction of social inequalities and the creation of mechanisms to compensate for the more extreme differences in wealth, living conditions and opportunities. The measurement of absolute poverty is typical of less developed countries in Latin America, Africa and Asia, while the measurement of relative poverty is more typical of highly industrialized and developed countries, such as the United States, Canada and Australia.

These two, very broad definitions of poverty have led to different approaches in the measurement of poverty which are being adopted by statistical offices throughout the world. The dominant practice is to measure the poverty

---

levels of households or dwellings. Absolute poverty can be measured, in principle, in terms of the basic needs a person has to meet in order to survive adequately in modern society. Depending on the availability of data, the satisfaction of basic needs can be measured directly, through anthropometric and medical measurements of the physical conditions of the population; or indirectly, through the study of the population consumption patterns or income levels. Ideally, the three kinds of information should be used.

The use of the expressions “adequately” and “modern society” show that it is very difficult, if not impossible, to define “absolute poverty” objectively, without introducing value judgements and elements of comparison. One approach used by several countries is to estimate the minimum intake of calories and proteins a person needs in order to survive, and use this measurement as a yardstick for the measurement of absolute poverty. There is a long list of technical problems with this approach: the biological definition of this “minimum”; its variation according to the age, sex, season, climate, physical built and type of activity of each person; the equivalences among different types and quantities of food and nutrients; the problems associated with food imbalances; and the need to add a few other essential non-food needs, such as shelter and clothing, with similar problems of variance and equivalences. “Adequate” survival in modern societies, of course, require more than sheer physical survival: it should include, among other things, resources for health maintenance and medical care, transportation, education, access to information and socially accepted clothing and living conditions. As we introduce these other elements, the notion of what is the “minimum” becomes a matter of values, preferences and comparisons - and absolute measurements turn into relative measurements.

The measurement of absolute poverty faces a set of typical problems. The first is the need to convert the ingredients which enter in the minimum basket of essential goods and services, regardless of their definition, into a common denominator, usually a monetary value. This can be a daunting task, given the seasonal, regional and cultural differences in consumption patterns and prices. To do this, it is necessary to have data from consumption patterns, household budgets and prices, often provided by independent surveys. Comparisons among regions and through time require adjustments and compensations for inflation and changes in quality of consumed goods, and the construction of parity standards of purchasing power. The second problem is to account for non-monetary income and benefits, derived from production for self-consumption, personal services and transfers among members of the extended family, and benefits provided by the government or the community. The very concepts of a “household”, “family” or “dwelling” are subject to significant cultural, local and historical variations, and require careful analysis. It is also important to take into account the existence of assets, in relation to current monetary and non-monetary income. The poorer and less capitalized a society or a community, the larger is their reliance on non-monetary resources of all kinds, and the harder it is to translate these resources into meaningful prices. Proper procedures to measure or estimate these non-monetary resources are an essential element in all attempts to measure poverty.

The final result of this process is the identification of one or several thresholds of poverty, and the assignation of quantities of people to these values. In some cases it is deemed necessary to identify values for poverty and for indigence, the latter referring to persons or dwellings which are below the minimum subsistence level. It is also possible to measure the poverty gap - how far away a given population is from the defined minimum, either from above or from below. Because of the large number of assumptions implied in all steps of this complex process of statistical processing, the numbers produced at the end are to some extent arbitrary, and should be carefully checked against other available information and common sense and other social expectations.

The discretionary nature of poverty figures is much clearer when the goal is to measure relative, not absolute poverty. Different and more or less arbitrary poverty thresholds can be defined - persons earning below a given percentage of the national or regional income, or placed at a given distance below the national average, or having access to a given basket of goods and services.

3. Types of poverty

The measurement of poverty is just a first approximation to the problems of social and economic deprivation. Poverty can be caused by different factors and conditions, and assume very different nature and characteristics. Very often the interest of policy makers is to identify groups and regions which are particularly affected by
deprivation, so that they can receive the benefits of public action - vulnerable groups such as children, the elderly, women, racial, ethnic and linguistic minorities. If the intention is not just to identify those in need, but to understand better the reasons for their predicament, it is necessary to examine the possible determinants of this condition. Rural poverty in traditional economies is very different from urban poverty in large metropolitan areas, and require very different policies. Different determinants and correlates of poverty can be measured and sorted out by statistical means - poverty associated with demographic conditions, such as family size; created by unemployment; caused by poor quality jobs; by lack of education; by social discrimination; by lack of “social capital”, such as family and community organizations and networks; by economic changes, climate changes, natural catastrophes, and war.

The procedures used for the measurement of poverty can be very complex, and require data sets that are more frequently found in rich countries, where the problems of poverty are less severe, than in poorer ones, where they are more significant. Depending on the objectives, the following statistical instruments have been used by different countries in these measurements:

- surveys on eating habits of the population, the nutritional contents of different types of food and their relation with health indicators. This kind of study is not usually part of the work of statistical offices, but is essential for the measurement of basic needs
- surveys on family and dwelling budgets. These surveys are carried on by statistical offices with some regularity, in order to ascertain the consumption baskets of different social groups, to be used in the calculation of cost of living indexes. They provide information on the resources going to the acquisition of essential goods (food, housing, shelter), and eventually on the access of the population to non-monetary services and money transfers.
- household surveys - Most countries carry periodical household surveys every year or a lower intervals, covering aspects such as housing conditions, labor, employment, education, income and other subjects. These surveys are more detailed and broader than the continuous employment and consumer price surveys, and large enough to represent major groups and regions in a country. Household surveys are the basic instrument to follow the conditions of the population in terms of living conditions, income and employment. They have, however, some limitations: they are usually not representative of small regions or population groups; they may be not be frequent enough; and they should be combined with information on family budgets, expenditures and prices.
- continuous employment and price surveys. These are usually well targeted, monthly surveys designed to follow the short-term fluctuations of employment and prices, and, when combined with information from other surveys, can provide also information on the fluctuation of the poverty conditions of the population.
- living standards surveys - this methodology, applied in several countries with the support of the World Bank, consists in very extensive questionnaires applied to relatively small samples of households. The attempt is to combine in the same survey all main dimensions related to living conditions, specially of the poor: consumption patterns, household budgets, anthropometric indicators, income, non-monetary benefits and transfers, and so forth. This type of survey seems to be of special interest for in-depth analysis of the conditions of poverty and their correlates. Because of the small samples, however, and the complexity of the questionnaire, they seem to be less useful for the establishment of parameters, standards and poverty thresholds for large regions and countries.
- census data - Census information is essential when there is the need to measure poverty at the local level. Two difficulties, however, are apparent. The first is the long period, typically ten years, between censuses; the second is the limited number of variables in census questionnaires. Income is usually under reported in census data, and there is no or little information on non-monetary transfers. There are many ways, however, to combine and calibrate the census information through the use of household surveys of different kinds, as a way to overcome their limitations.
- administrative registers - when governments deliver benefits associated with poverty conditions, they can develop administrative records which inform, by definition, the number and other characteristics of the population considered poor. This information should be combined with data derived from household surveys and similar sources, so that the it may be possible to gauge the actual coverage of these benefits.
In short, there is a large array of instruments used in the measurement of poverty, and it is the responsibility of statistical offices to identify those that are more adequate to their specific purposes, and practical in terms of their financial resources and technical and administrative skills.

**The uses of poverty statistics**

The definitions of poverty and the selection of statistical instruments depend on the intended use of the results. Three main uses can be identified in the current international practice:

- **the establishment of poverty lines.** The goal, here, is to identify a threshold of income or need satisfaction dividing what is acceptable and what is not acceptable in a given society. Once defined, poverty lines can be used to distribute benefits of different kinds, either in cash or in services; to identify groups or regions requiring special policies for poverty reduction; and to monitor the progress of such programs through time. Once established by official statistical institutions or governmental agencies, poverty lines create expectations and lead to the allocation of public funds to specific programs, and are therefore very difficult to change. Whether a country decides or not to adopt an official poverty line is a matter of national policy. From the statistical point of view, the best practice to this work seem to be the use of methodologies which can be simple to understand in their procedures and implications, and with built-in mechanisms for adjustment according to changes in prices, consumption habits of the population and national wealth.

- **international comparisons.** International organizations have a natural interest in comparing countries according to their poverty levels. This information is very useful to identify countries in need of international assistance, to monitor and to evaluate the effects of policies of social and economic development in terms of their actual effects on the most needed groups. The technical problems associated with international comparisons, however, are very significant, given the highly divergent approaches of different countries in the establishment of their poverty measurements, and the need to establish equivalences among countries in terms of the consumption patterns and purchasing power of their currency for the poor population. One way of reducing this problem is for countries to adopt the same methodology for the development of their poverty statistics, and several international organizations are working in this direction, by providing technical assistance to countries interested in the development of these measurements, or by sponsoring activities geared to the comparison of experiences and the adoption of comparable methodologies by groups of countries. This is a slow process at best, and still leave open the problems of international parities and conversions. Another approach is to adopt very simple and arbitrary measurement of poverty (the “one dollar per person per day” used by the World Bank) for rough estimates and overviews, under the assumption that they would not be much worse than what could come out from very elaborated procedures and calculations.

- **The identification of poverty syndromes and their correlates.** The goal, here, is not just the measurement of poverty levels, but the understanding of the main characteristics of the poor groups, with the understanding that different kinds of poverty require different policies for poverty reduction. The kind of statistics needed for this approach is different from the uses used for the establishment of poverty levels: they should include a broad set of socioeconomic variables and be amenable to complex econometric analysis, which are more important than the definition of poverty thresholds. At best, they should also allow for the follow-up of poverty-stricken groups through time, with the use of panel surveys.

These objectives are not incompatible, and statistical agencies can and often do engage in all of them, making use of a wide array of methodologies and approaches, responding differently to the demands of different constituencies. A recommendation about the best practices in poverty statistics should not stress the superiority of one among the other goals. What is necessary is to have a clear notion what will be the use of the statistics being developed; to adjust the methodology for their production, making use of the available experience; and to be very explicit about the means by which specific results are being attained.