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Employment and Development in the Developing World: Taking Stock of What Research Can Teach Us

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Abstract
Productivity growth and structural change are generally considered to be important determinants of economic growth. However recent research revealed that they do not necessarily lead to higher growth and employment rates. Recent studies, drawing on data from developing countries, showed that only the “right” kind of productivity growth resulted in higher employment rates. Enterprises in Africa and Latin America caught up in matters of technology; however, this process resulted in a substitution of employment by technology. The same is true for structural change; only the “right” kind of structural change caused more growth and employment. Whereas in Asia, labour shifted from the less productive agricultural sector to more productive sectors, in Africa and Latin America, labour switched from a relatively productive agricultural sector to even less productive informal sectors. Thus, policies have to focus on promoting the “right” kind of productivity growth and structural change. Possible means to this end could be avoiding an over-valuation of the local currency, as well as protecting local infant industries.

Keywords
employment, structural change, productivity growth

Disciplines
Growth and Development | International and Comparative Labor Relations | Labor Economics

Comments
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Employment and Development in the Developing World: Taking Stock of What Research Can Teach Us

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I. Introduction

A. Context

Of the world’s 6.7 billion people (as of 2008), 1.3 billion lived on less than $1.25 Purchasing Power Parity dollars per person per day and another 1.7 billion lived on between $1.25 and $2.50 PPP dollars (Chen and Ravallion, 2012).² (PPP dollars convert local currency into U.S. dollars adjusting for international differences in what money will buy.) The scourge of absolute economic misery among billions of the world’s people is one of the most serious problems facing humankind today.

By global standards, essentially all of the world’s poor are to be found in the developing world.³ Of the world’s poorest, half are concentrated in just two countries, India and China. Another fourth are in sub-Saharan Africa. The remaining fourth are scattered throughout the rest of South Asia excluding India, the rest of East Asia excluding China, Latin America and the Caribbean, Eastern Europe and Central Asia, and the Middle East and North Africa.

Unemployment (defined below) befalls about 200 million of the world’s people - a sizeable number but small compared to the three billion people who are poor using the $2.50 PPP dollar poverty line. A much larger number - 900 million - are employed but earning so little that they and their families are unable to reach even $2 per person per day (ILO, 2012). They are working hard and they are working poor, evidence on which is presented below. (Working Hard, Working Poor is the title of my latest book (Fields, 2012)).

Employment can be gauged by a variety of indicators. The ones highlighted in this paper include not only whether the worker is employed but also such aspects of employment as earnings level, steadiness of employment (regular or casual), occupation, occupational position (i.e., wage-employed, self-employed, household enterprise worker), and sector of employment (e.g., agriculture, manufacturing services).

Sustainable and decent employment is an important end of development, as well as an important means of development. Lack of employment is a serious socioeconomic and political challenge. Growth in employment, on the other hand, leads not only to higher incomes and reduced poverty but it also contributes to social security and cohesion and can provide a basis for economic growth and development (World Bank, in process).

To achieve more and better employment, analysts and donors need to understand better how employment, growth, poverty and other factors interact, how unemployment is caused, and how
employment can be improved. At the same time, drawing on practical experience, research can identify knowledge gaps that to date pose limits to successful employment creation policy.

To this end, a policy forum for high-level dialogue of research and practice was organized in March, 2012. The purpose of the forum was twofold: First, to enable researchers and practitioners to take stock of what they know (and what they don’t know yet) in their respective fields on employment, growth and development, and poverty and the relevant connections between these three. Second, to afford participants the opportunity to explore next steps towards better knowledge and practice to be taken in these three fields, separately as well as together.

This paper was commissioned as a contribution to the policy forum, at which the author gave a presentation based on the first draft. The objective of the paper is to inform practitioners about the state of the art in labor economics research in low- and middle-income countries. The emphasis is on existing empirical evidence. Labor market theory is brought in as needed to formulate hypotheses and interpret empirical patterns.

B. Specific questions

The following questions are addressed in the present paper:

1. What are the different forms of employment in which developing country workers are engaged?
2. What are empirically founded relations between growth and employment and between employment and poverty reduction?
3. What are the main causal channels underlying the answers to question 2 and in which direction do they work? Do the workings of these causal chains differ in any systematic fashion between different parts of the developing world or between middle-income and low-income countries?
4. Which policies have been particularly successful (or unsuccessful) in creating more wage and salaried employment?
5. Which policies have been particularly successful (or unsuccessful) in raising the returns to self-employment?
6. Which kinds of donor engagement have turned out to be particularly successful (or unsuccessful) or would be required in this respect?

C. Major variables

The five central variables under investigation in this study are "labor market,” "employment,” "unemployment,” "development,” and "poverty.” It is essential that these terms be defined carefully and consistently for purposes of the analysis which follows.

The "labor market” is the place where labor services are bought and sold. In a wage, salaried, or piece-rate employment relationship, the employer hires labor services and the worker supplies them. (Following established practice, for shorthand, this type of employment relationship will often be called "wage employment" in this paper.) On the other hand, in self-employment, the worker is both the seller and the buyer of labor services. Accordingly, "labor market” includes all
who work or seek work; it is not limited to wage employees or employees in registered establishments.

The term "employment" is used in this paper following internationally-accepted International Labor Organization (ILO) definitions. The "labor force" consists of those people in the economy who either are working or who are actively looking for work. The "employed" are those who worked in wage employment for even one hour for pay or who worked as unpaid workers in a family business for fifteen or more hours in the preceding week. It is standard labor economics practice to use the terms "employed," "at work," and "has a job" synonymously. The "unemployed" are persons of working age (usually age sixteen but often age fourteen or even age twelve in the developing world) who were not employed last week but who were actively looking for work. Together, then, the wage-employed and the self-employed constitute "the employed", and the employed and the unemployed together constitute the labor force. Other persons of working age who were neither employed nor unemployed are classified as being "out of the labor force." The "unemployment rate" is calculated as the number employed as a percentage of the labor force. Unemployment is typically classified into deficient demand unemployment (which arises when the economy does not generate enough jobs for all who want to work), frictional unemployment (which arises when employers are looking to hire, would-be workers are seeking jobs, but it takes time for employers and workers to match up with one another), structural unemployment (which arises because of a mismatch between the types of individuals available for work and the types of workers employers are seeking), and seasonal unemployment (which arises during slack seasons, especially in agricultural economies).

The terms "labor market indicators" and "employment indicators" have the same meaning as one another. For reasons explained below (Section II), it is generally agreed that the unemployment rate is an unsatisfactory indicator of economic distress in the context of developing countries, and so other indicators of labor market/employment conditions will also be used. These include employment composition, real labor earnings, earnings inequality, and the low earnings rate.

"Development” can be conceived of in both income and non-income terms. The primary indicators of development used in the field are an economy’s level of national income and its rate of economic growth; they will be used here as well. Income levels and growth of incomes are always measured in real (that is, inflation-adjusted) terms. Where possible, national incomes and economic growth will be expressed in per capita terms. Income growth will be supplemented by non-income indicators such as the United Nations’ Human Development Index.

"Poverty” will be thought of in absolute terms - that is, a poverty line is fixed in real dollars (or rupees or pesos) and is adjusted over time for inflation and only for inflation. Poverty conceived of in such absolute terms differs from the European notion of relative poverty, in which people are classified as poor by Eurostat if they live in households where the equivalised income is less than 60% of the national equivalised median. Poverty also differs from inequality, which inherently involves comparisons between some persons’ incomes and others. Absolute poverty is measured by such indicators as the poverty headcount, the poverty headcount ratio, the P-alpha index, and the Sen index; inequality, on the other hand, is measured by indicators including the income share of the richest x%, the income share of the poorest y%, and the Gini coefficient.
D. What we know

Some research findings have been so clearly established that they form the knowledge base for the rest of this report. Specifically:

- Most countries in the world have experienced economic growth (World Bank, 2012). Economic growth is positive in every geographic region of the world. It is positive in every income group (high income, middle income, and low income). And it is positive in 90% of the countries of the world.
- Most countries in the world have experienced falling poverty (World Bank, 2012).
- Economic growth and poverty reduction usually go together at the macro level (Fields, 2001). Poverty has fallen in the great majority of country cases when economic growth has taken place. When poverty has not fallen, it typically is because economic growth has not taken place.
- Human development indicators have risen in every single country of the world (United Nations, 2011).
- In every country of the world, better-educated workers earn more on average than less-educated workers do (Psacharopoulos and Patrinos, 2004). Consequently, countless poverty profiles from around the world show that lower rates of poverty among households whose heads are better educated.
- An important reason why better-educated workers earn more is that they work in better job categories than less-educated workers do (Schultz, 1988).
- Unemployment is particularly prevalent among youth. However, youth are only about 20% of the world’s labor force (ILO, 2012).

In short, economic growth, employment, and poverty reduction tend to go together. How specifically they tend to go together is the focus of the rest of this paper.

E. Learning about the growth-employment-poverty nexus

In conducting a study of growth, employment, and poverty, it is necessary to rely heavily on country studies. This is for reasons of data availability.

A key indicator of development is economic growth. Analysts have access to data on economic growth (including non-growth and negative economic growth) from the World Bank and the International Monetary Fund over long periods of time for nearly every country in the world. See, for example, http://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG.

Another key indicator of development is non-income information. Such information is regularly tabulated by the United Nations and compiled into a Human Development Index which brings together data on health, education, and living standards into a single indicator. See http://hdr.undp.org/en/statistics/hdi/ for data and description of human development indicators.

Information is also available on poverty rates (specifically, poverty headcount ratios) over a quarter-century for every region of the world (Chen and Ravallion, 2010, 2012) but much less complete coverage for the countries of the world.
But it is for employment indicators - rate of employment and unemployment, job composition, and labor market earnings - that the data situation is problematical. The ILO’s key sources are its Yearbook of Labor Statistics (LABORSTA) and Key Indicators of the Labour Market (KILM) databases. LABORSTA is disappointingly sparse. For example, rates of employment and unemployment using the ILO’s own definition are available for just twenty-nine countries of which only four (Colombia, Korea, the Philippines, and Turkey) are arguably developing countries. KILM is better, but even there important data are missing - for example, no average wages are published for Argentina even though that information is available in household surveys for many years.

The development banks are working with the ILO to expand the data base, and progress is promised. The World Bank has launched a number of important new activities. One is a multi-year study of labor markets in low- and middle-income countries (Cho et al, 2012). To date, data have been compiled for four groups of countries on the following variables: total labor force, youth labor force, total employment, youth employment, and shares of employment by occupational category (self-employed, unpaid family work, and household employment) and sector (agriculture, industry, and public employment).

The other major World Bank project in this area is its 2013 World Development Report on "Jobs.”

Besides the WDR report itself, the Bank has also commissioned seven new country (on Mexico, Bangladesh, Mozambique, Tunisia, Papua New Guinea, South Sudan, and Ukraine). It is also in the process of producing data on key labor market variables for as many countries as possible for 1995, 2005, and 2010. None of the WDR-based information is available at present; I myself have not yet been allowed to see it.

Finally, the countries themselves provide useful but scattered information; some of this information is reviewed below. And academic researchers using both statistical/econometric and randomized control trial methodologies are producing studies of individual issues. Many investigators are busier creating new knowledge than in compiling knowledge into publicly-accessible databases.

The paucity of reliable data on national-level labor market outcomes has a number of important implications both for how we conduct research and for where we can find answers to important questions at present. First, we cannot do Barro-style macroeconomic studies of key employment outcomes as functions of country characteristics, because we do not have a systematic data base on key employment outcomes such as rates of employment and unemployment, composition of employment, and labor market earnings. Second, we cannot divide the development-employment-poverty nexus in different countries on the basis of country typologies and compare outcomes across types; this is because only a small number of countries have comprehensive data on all three components (development, employment, and poverty) or on the development-employment and employment-poverty nexuses. Third, we must rely on studies of individual countries, which are few in number and not necessarily very current. Fourth, we may learn from randomized control trials; this is an active but very young literature, and therefore any given labor market issue that has been studied at all typically has been investigated in only one or a small number of countries (Banerjee and Duflo, 2011).
These data challenges notwithstanding, a great deal has been learned. This knowledge and 
learning is reviewed in the balance of this paper.

II. The Growth-Employment-Poverty Nexus: The Developing Economies in International 
Context

A. An introduction to the cross-sectional approach

One way of getting a sense of how labor market conditions change in the course of economic 
growth and what impact these changes in labor market conditions have on poverty is to compare 
countries at different stages of economic development. This methodology has a long and 
distinguished history in economic analysis, including important contributions by Kuznets (1966), 
Chenery (1979), Squire (1981), and Turnham (1971, 1993), among others.

Accordingly, to begin our analysis of the growth-employment-poverty nexus, this section takes 
up the twin questions of how developing country workers are working and how work patterns in 
developing countries differ from those in the developed world.

B. The types of work people are doing in the developing world

• Unemployment or low earnings?

The first question about how developing country workers are working is whether they are 
working at all. The latest data (ILO, 2012) show that the global unemployment rate is 6.1%. 
(Recall that to be counted as unemployed, a person must not have worked even one hour for pay 
or fifteen hours not for pay in the preceding week but must have actively looked for work.) 
Given the standard international definition, the unemployment rates are no higher in the 
developing world than they are in the developed world. Actually, the unemployment rates are 
higher than the world average in the developed economies and the European Union (8.8%) and 
lower than the world average in East Asia (4.1%) and South Asia (3.9%).

• The need to work

Unemployment rates are so low in the developing countries not because people are working in 
good jobs but because most have no choice but to work. According to the so-called "luxury 
unemployment hypothesis,” to be unemployed and earn no money at all in a week, workers need 
to be able to rely on their own savings, family members, or the community for financial support 
while unemployed. Poor workers in developing countries have no such base of support, so after a 
few days or perhaps weeks of being unemployed, they must earn what they can. Most prefer 
wage or salaried employment. But in the absence of such employment, creating their own self-
employment positions is often the only remaining option.

• Where and how they work

Workers in the developing countries work primarily on farms and in their own micro-enterprises; 
they do not generally work in offices and factories. Most live and work in rural areas; China, 
with its sustained rapid economic growth, has just reached the point where its population is 
divided equally between rural and urban areas. Of course, agriculture is an important source of
rural livelihoods; it may be less obvious to outsiders, but also important in the rural areas of developing countries is non-farm rural employment.

Wage and salaried employment is not the norm; it is the exception. The dominant mode of work in low-income countries is self-employment (which may or may not involve employing others), own-account work (which by definition involves not employing others), and unpaid family work.

People in the developing world usually work informally, defined here to mean that the enterprise is not registered with the government, the workers and the firm do not pay taxes, and therefore the workers do not receive government-mandated or -provided job-related social protections. As one study is put it, "informal is normal" (Jütting and Delaiglesia, 2009). India’s National Commission for Enterprises in the Unorganized Sector reports the following figures. A full 86% of the working population are in the informal sector, often called the "unorganized sector", meaning that the firms themselves are not registered with the government. Another 7% of India’s working population are engaged in informal employment in the formal sector, meaning that although the firms are registered and some workers in these firms enjoy social protections, the informal employees are unprotected. Only 7% of India’s working population are formally employed.

The private sector is where most people work. About 90% of all developing country workers are in the private sector.

C. The problems workers in the developing world face

- **An insufficient number of good jobs.**

Many more workers want jobs and are capable of performing the jobs there are than the number of jobs available. This means that employers have a large pool of applicants from which to hire. Workers, for their part, face a great deal of competition from other workers for scarce employment opportunities.

- **The uncertainty of work.**

Workers face pervasive uncertainty about whether they will find a job and, if so, whether that job will be there the next day or the next week. Seasonality is endemic; agricultural workers are in great demand during the planting and harvesting seasons, but little work is available at other times. Casual work is the norm, not the exception.

- **Low earnings despite long hours.**

Workers in the developing world work long hours; in countries such as Peru, South Korea, Thailand, and Pakistan, nearly half of all workers work more than forty-eight hours a week. But despite the long work hours, daily earnings are low because the hourly earnings are so low. An example of such a worker is Kalavati, whose story is detailed in Fields (2012). She hand-rolls a poor person’s cigarette called bidis, for which she is paid a piece rate. When she has been able to roll a thousand of them, which takes her about eleven hours of non-stop work, she is paid fifty Indian rupees - about U.S. $1.10. Kalavati is one of one million women belonging to India’s
Self-Employed Women’s Association (SEWA); earnings of around one U.S. dollar per day is the best that SEWA has been able to negotiate for its members.

- **Few job-related social protections.**

On good days, Kalavati has a thousand bidis to sell and the company wants to buy them, and so she gets paid. On bad days, she earns nothing. No social protections such as minimum wages or maximum hours apply to her. Her union has negotiated that the bidi companies will make contributions into a Provident Fund, which she can access for old-age benefits or for health-related expenses. Otherwise, she does not receive unemployment benefits or any other source of income other than her labor earnings. The lack of workplace protections is the norm in low-income countries and all-too-prevalent in middle-income countries.

- **The special problem of indecent work.**

Some jobs are downright indecent: modern-day slavery, indentured servitude, child prostitution, and the like. These severe forms of indecent work should be eliminated as soon as possible. I also feel that full employment should be sought now. Otherwise, while it is a matter of opinion, I feel that other objectives of the ILO’s Decent Work agenda – improved levels of socio-economic security, universal respect for fundamental principles and rights at work, and the strengthening of social dialogue - while also important, are less pressing concerns.

- **The particular disadvantages faced by women.**

Women face particular disadvantages in the labor market: they are less likely to be working in the paid labor force, more likely to be in low-paying occupations, more likely to be in precarious work, more likely to be victims of labor market discrimination, more likely to be low earners in self-employment, less likely to own land, and less likely to have secure land tenure rights. Women in developing countries face all the labor market problems that men do and then some.

- **The developing countries’ employment problem.**

As noted above, the latest figures from the ILO (2012) show that for every worker who is unemployed, four-and-a-half workers are working poor. This means that most of the poor are poor because they do not earn enough to enable their households to escape from poverty; they are not poor primarily because of unemployment. Not enough “good jobs” are available for all who want and can do them. Labor market policies aimed just at lowering unemployment focus on a small part of developing countries’ labor market problems and ignore the much larger problem of low earnings among the employed. Raising the earnings of employed workers, be they in wage employment or self-employment, deserves more policy attention and development resources than are often given to it. These policies are discussed further in Section IV.

- **In summary**

This section has shown that workers in the developing world face many labor market problems. Yet, in moving up the income scale of countries, labor market conditions generally improve.
Is it also the case that labor market conditions tend to improve as individual countries achieve economic growth over time? The next section reviews such time series evidence for a number of developing economies.

### III. The Growth-Employment-Poverty Nexus: Changes Over Time in Individual Countries

#### A. Introduction

The essence of developing countries’ labor market problems was identified in Section II as an insufficient number of “good jobs” for all who want to work in them and are capable of performing them. In this section, we examine whether employment tends to increase and whether jobs tend to become better when economic growth takes place, whether an increase in employment tends to reduce poverty, whether certain types of countries tend to perform better in these dimensions than others, and what may have caused these differences.

The examination in this section is guided by two opposing hypotheses. The more positive view is associated with the famous hypothesis that "a rising tide lifts all boats” and therefore economic growth reduces poverty. One mechanism for poverty reduction is the labor market, which transmits economic growth to households through more and better employment opportunities. On the other side is the more negative view that economic growth is concentrated in the hands of the few, that those who are initially advantaged gain further advantages, and that typical workers and households are left out. This is the experience of the United States in recent years (United States Bureau of the Census, 2011; Stiglitz, 2012), from which investigators extrapolate to expectations about what happens elsewhere.

#### B. Changes over time in major developing economies in recent years

- **China**

  China combines the most rapid economic growth of any country in the world - 10% a year in real terms - with the largest reduction in poverty ever recorded: a reduction of 500 million persons in the quarter-century ending in 2005 living on less than $2.00 per person per day.

  China’s urban unemployment rate is now moderate, having fallen in the 2000s. Rural unemployment data are not available, so the unemployment figures for China are limited to urban areas. The official unemployment rate among local residents in urban areas (“registered unemployment”) is 4.2%, but when migrants who are not working but actively seeking jobs are included, the surveyed unemployment rate in urban areas rises to 5.2%. And when international methods are applied - that is, calculating unemployment as the difference between total employment and labor force and then calculating the unemployment rate as the ratio of unemployment to labor force - China’s urban unemployment rate is estimated to have peaked at nearly 10% in 2000 before falling to around 6% by 2008 (Arnal and Förster, 2010).

  For the most part, the mix of jobs has improved. Urban employment, which pays four times what rural employment does, engages a larger percentage of the labor force than previously. This is
because of rural-to-urban migration, not because of birth rate differences; China continues to adhere rigidly to its one-child policy. Workers have been moving out of agriculture (a low-paying activity) and into manufacturing (especially in township and village enterprises) and services. Workers have also been moving out of self-employment and into wage employment. In all of these respects, then, the mix of jobs has improved. In one other respect, though, the job mix has worsened, at least from the point of view of workers: as a consequence of economic and labor market reforms, there was a sharp cut in public sector employment; these were the jobs with the highest pay, most generous benefits, and iron-clad job security.

Real labor earnings have increased sharply. Compared to 1995, real urban earnings are five times higher now and rural labor earnings nearly three times higher. Among formal sector workers, real wages rose rapidly overall, in each ownership type (state-owned enterprises, collectively-owned enterprises, and other ownership types), and in every region of China.

Household income inequality and labor income inequality have both increased. Urban labor incomes were twice rural labor incomes in 1995; they are now four times as high. Urban-rural earnings differentials persist after controlling for human capital variables. Migrants to urban areas earn only about half of what urban residents do. Overall, income inequality in China has been rising.

In summary: The Chinese labor market has played a central role in transmitting economic growth to workers, thereby reducing poverty. There have been huge improvements in many aspects of labor market conditions in the course of Chinese economic growth: reductions in unemployment, improved employment composition, rapidly rising real labor earnings. However, despite an enormous reduction in absolute poverty, income inequality in China is increasing; this issue is receiving a great deal of attention in Chinese policy circles at present.

- **India**

Indian economic growth is high and accelerating; the Indian economy was, until very recently, the second-fastest growing economy in the world (after China). The changes in labor market conditions in the course of Indian economic growth are as follows:

Low and falling unemployment. Using the definition of unemployment closest to the ILO’s, the data show that India’s unemployment rate stayed right around 3% from 1983 to 2004/05, then fell to 2.6% in 2009/10.

*Composition of employment.*

Indian workers remain employed overwhelmingly in informal employment. As stated earlier, 86% of Indian workers are in the informal sector and another 7% are informal workers in the formal sector; just 7% of Indian workers are formal workers. (For definitions, see footnote 4.) Essentially all of the increase in employment in India has been in informal employment; but because the rate of informal employment is so high and the rate of formal employment so low to begin with, the shares of formal and informal employment in the total have barely changed.
As for other aspects of employment composition, over time, the composition of employment improved so that a larger percentage of the employed were in regular wage employment and casual wage employment and a smaller percentage in self-employment. Still, though, 57% of Indian workers are self-employed and 28% are casual wage employees. As for the composition of employment by economic sector, it too has changed, so that agriculture’s share of the total fell and industry’s share rose, consistent with a shift to higher-paying activities. (Services’ share increased as well, but this change is not easy to interpret owing to the heterogeneity of the services sector.) However, because these changes have been rather slow, the structure of employment is not much different from what it was earlier. Agriculture’s share fell from 64.9% of total employment to 54.6% over a twenty-year period; thus, agriculture remains the majority employer in India even now. The education level in India is improving, but it still remains very low: 50% of the female labor force and more than 20% of the male labor force have no education at all, and the education that is received remains highly variable in quality.

Real wages. Where the main improvement in Indian labor market conditions has been recorded is in real wages. Positive wage growth was recorded between 1993/94 and 2004/05 for all sixteen employment groups analyzed. (The sixteen groups are rural male/rural female/urban male/urban female cross-classified by regular/casual and agriculture/non-agriculture.) Between 1993/94 and 2004/05, real wages grew at only about half the rate of growth of the economy as a whole; but between 2004/05 and 2009/10, real wages grew at about the same rate as the economy as a whole. Moreover, these wage increases were at about the same rate in regular wage employment, casual wage employment, and the informal sector; the only important group whose wages rose at a slower rate is formal sector workers.

Inequality. Income inequality in India has been rising. See, for instance, Asian Development Bank (2007) and ILO (2008).

Poverty. In India, the percentage of workers in households below a constant real absolute poverty line fell continuously, overall and for each employment status (regular wage and salaried workers, the self-employed, and casual labor).

In summary: Indian economic growth was rapid, labor market conditions improved, but the improvements in types of employment were slow compared to the rapid economic growth. In recent years, though, real wages in most employment categories have been rising apace of economic growth.

• Brazil

In the period from 1996 to 2004, the Brazilian economy experienced real per capita economic growth of less than 1 percent a year, during which poverty increased. Given the importance of labor income in total income in Brazil as elsewhere, it would be expected that very slow economic growth and an increase in poverty would be accompanied by a mixed pattern of changes in the labor market, with some indicators registering an improvement and some a deterioration. Indeed, the data show exactly that.
There were signs of progress. They include an improved sectoral mix of employment, higher educational levels of the employed, a higher proportion of employed in wage and salaried employment, shorter weekly work hours, a reduced child work rate, higher participation in social security, and a reduction in unpaid work. Many of these changes were very modest in magnitude.

On the other hand, there were also signs of regress. Unemployment rose, unemployment came to be more associated with poverty, median earnings fell, and earnings inequality rose for several groups. The percentage of workers holding signed labor cards and receiving the consequent employment protections fell further from an already low level.

Important labor market problems remain in Brazil. They include high unemployment, low earnings, lack of participation in social security, lack of employment protection, and significant unpaid family work. Clearly, the Brazilian economy has a long way to go before well-paying, secure jobs are available to all who want them.

- **Mexico**

Between 2000 and 2006, the Mexican economy grew at an average annual rate of 2.9% in real terms. During this growth period:

Overall unemployment Increased in Mexico by one percentage point from 2000 to 2006. However, the unemployment rate in 2006 was still very low: just 3.6%. Mexico’s chief labor market problem is not unemployment; it is low earnings.

The composition of employment Improved. Compared to 2000, a smaller percentage of Mexicans were working in the low-paying primary sector (agriculture and related activities) in 2006 and more in the higher-paying trade and services sectors. A larger percentage of workers had completed high school or above and a smaller percentage were illiterate. However, there was hardly any change in the sources of workers’ earnings (wage and salaried employment, business, and other).

Real labor market earnings increased, overall and for most groups. Average real monthly earnings grew by 1.2%, which was less than the growth rate of GDP. Wage and salaried workers’ average monthly earnings rose, the average earnings of workers deriving their incomes from business declined, and the average earnings of workers with incomes from other sources rose. Earnings rose for both males and females. And they rose for workers in every economic sector (primary, trade, manufacturing, services, public sector, and other).

The poverty rates in Mexico fell using three different poverty lines, in both urban and rural areas.

*Income inequality in Mexico fell.* A Lorenz-improvement took place, and therefore all Lorenz-consistent inequality measures such as the Gini coefficient register falling inequality.

*In summary:* Mexican economic growth was accompanied by rising unemployment, improved employment composition, rising real labor earnings, and falling poverty and inequality.

- **South Africa**
Following the fall of apartheid in 1993, the South African economy grew at an average annual rate of nearly 3% in real terms in the next fifteen years. After adjusting for population growth, real per capita GDP averaged 1.4% growth over that same period.

In terms of the labor market indicators identified in this report, we find:

Unemployment in South Africa rose dramatically in the first half of the period and started to fall only in the early 2000s. Using the standard international definition of unemployment (the ILO definition), the unemployment rate rose from 13.6% in 1993 to 28.9% in 2001 before falling to 23.4% by 2008. Another, broader definition of unemployment is commonly used in South Africa, including in addition persons who were not working, were not searching for work, but report that they are willing to take a job. The broad unemployment rate too rose in the earlier period (from 31.2% to 40.8% between 1993 and 2001) before falling to 28.9% by 2008. Words like "frightful" and "catastrophic" are used to describe unemployment rates of such magnitudes.

The exceptionally high unemployment rate in South Africa is accompanied by an exceptionally low rate of informal wage-employment and self-employment. In most developing countries, informal employment comprises about three-quarters of non-agricultural employment. In South Africa, the rate is one-half. Among the barriers to creation of informal employment in South Africa are geographic separation of would-be self-employed from markets, crime, lack of access to infrastructure, lack of access to services, insufficient skills, hassles from the local authorities, harsh licensing requirements, and insufficient informal credit. The unemployed in South Africa have not responded by creating their own self-employment positions to the same extent as in most other countries. Instead, they have attached themselves to households with income from the labor market and/or social grants.

Various indicators of employment composition show a worsening job mix. These include an increased rate of part-time and casual employment, a higher share of informal employment (defined as those working in a business that is not registered with the government, plus domestic workers), and a higher rate of self-employment.

Real monthly wages grew, but in a very unequal way. Average wages increased overall and for most races (African, Indian, and white) but not for coloreds. ("Coloreds" is the South African term for persons of mixed race.) But real wages rose only in the top two labor income deciles; in the other eight, real wages fell. For the poorest decile, the decline was a stunning 43%.

Household poverty rates fell, using the $1.25 PPP dollar and $2.00 PPP dollar poverty lines described above. Despite the falling poverty rates, the percentages of South Africans recorded as poor using these poverty lines were respectively 17.7% and 30.0% in 2008. The poor in South Africa are overwhelmingly nonwhite, reflecting the nation’s legacy of apartheid.

Income inequality, already at a high level, increased even more. By 2008, the aggregate Gini coefficient of per capita income reached 0.70, which is one of the very highest rates of inequality in the world. This was caused in large part by the rising inequality of monthly wages, which was noted above.
In summary: Unlike in most other countries, in the case of South Africa, economic growth did not generally result in improved labor market conditions. Household poverty rates did fall, but not because of changes in the labor market. Rather, the main driving force was the country’s widespread and generous system of social grants.

C. Other countries

A number of earlier studies had been carried out on the question of how labor market conditions changed with economic growth in other developing countries. Their main results are:

The World Bank’s ‘Working Out of Poverty’ series: This project resulted in three country studies: Bangladesh (Paci and Sasin, 2008), Madagascar (Hoftijzer and Paci, 2008), and Nicaragua (Gutierrez, Paci, and Ranzani, 2008). Bangladesh achieved good economic growth, improved labor market conditions, and falling poverty. In Nicaragua, modest economic growth took place, but labor market indicators were mixed: employment grew primarily in the agricultural, manufacturing, and commerce sectors; real wages grew in some sectors but not others; and the poverty headcount did not change. In Madagascar, during a period when economic growth did not take place, the labor market record was mixed: unemployment rose, real earnings increased at the bottom and middle of the earnings distribution but not the top, and poverty fell.

Sub-Saharan Africa (Fox and Gaal, 2008): The study focuses on six countries: Burkina Faso, Cameroon, Ghana, Mozambique, Senegal, and Uganda. GDP growth rates per capita ranged from 2.0% to 6.5% per annum over periods ranging from five to ten years. Wage and salaried employment increased in all six countries, albeit from very low levels. Agriculture continued to be the major sector of employment despite a declining share in all six countries. Labor earnings grew by the largest amount in Mozambique (which achieved the fastest economic growth of the six), by the next largest amount in Uganda (which achieved the second-fastest economic growth), and by lesser amounts in the slower-growing economies.

Turkey (Güder, 2006): Turkey experienced slow average economic growth during the 1988-2004 period. Some of these were positive economic growth years, some negative ones. Employment, real wages, poverty, and employment composition improved during the growth years and reversed when growth was negative.

Taiwan, Indonesia, Costa Rica, and Brazil (Fields and Bagg, 2003): This study reached the following principal findings:

- Economic growth has been the driving force leading to improved labor market conditions and therefore reductions in poverty.
- The faster the economic growth, the faster the fall in poverty.
- Economic growth brought about higher real wages, a movement to more productive and higher paying jobs, and a more educated labor force in each country.
- The role played by the private sector as opposed to the public sector in the upgrading of labor market conditions varied from country to country.
• Economic growth is a critical means for improving employment and earning opportunities and thereby lowering poverty.

Hong Kong, Singapore, Korea, and Taiwan (Fields, 1994): During the rapid economic growth of these economies, full employment was generally maintained, job mixes were improved, real earnings were raised, and poverty rates were lowered. Labor market conditions improved in these economies at rates comparable to their rates of aggregate economic growth.

Barbados, Jamaica, and Trinidad and Tobago (Fields, 1984): Barbados and Trinidad and Tobago grew at just 1-2% per annum in per capita terms over the study period. In both these economies, unemployment remained in double digits, agriculture’s share of total employment fell, and real wages rose. Meanwhile, Jamaica suffered a cumulative 26% fall in real per capita GNP over the study period. As a consequence, the unemployment rate more than doubled, real wages fell by 30%, and poverty rates rose; the only positive change was an increase in the share of employment in the best occupations, apparently because of loss of employment in the poorer ones.

D. A comment on “jobless growth”

One hears much about the notion of jobless growth - specifically, the claim that in many cases economic growth takes place, yet employment does not increase. This hypothesis is not borne out by the data. Actually, the truth is quite the opposite.

In the case of India, data from the Indian Planning Commission, the National Sample Survey Organization, the National Commission for Enterprises in the Unorganised Sector, and other sources all show a continuous increase in employment. What has not increased is the rate of unemployment in India. There has been little improvement in the categories of jobs people are working in, so informal employment remains the norm, but real wages have risen in all job categories. Though the pace of improvement in the types of work performed has been disappointing, economic growth in India has not been jobless.

In the case of South Africa, government data show an increase in employment, followed by an equally sharp decrease. But upon further examination, what we see increased and then decreased in South Africa is formal employment. Not so for total employment in South Africa; it has increased throughout.

A new World Bank research study by Cho et al. (2012) examines data for 133 low and middle income countries and groups them into four clusters: middle income, rapid growth, and structural change; upper middle income, aging, and declining informality; very low income, young, balanced employment growth; and low income, young, slow productivity growth. In all four clusters, employment as per the ILO definition increased apace of labor force growth in every country but one, and in that one, labor force grew at the rate of 1% and employment at the rate of 0%.15

In short, there are cases where economic growth has taken place and formal employment has increased slowly or even decreased. Yet, as the labor force has grown, so too has employment in
other areas. "Jobless" is not only hyperbole; it reflects a limited understanding of what counts as employment and what doesn’t.

E. In summary

What the evidence presented in this section has shown is that labor market conditions generally improve as economic growth takes place within countries. This is true in low-income and in middle-income countries, in Asia, Latin America, and Africa, and in fast-growing and not-so-fast growing economies. Developing country labor markets have transmitted economic growth to workers in the lower parts of the income distribution and in the poorer employment categories, thereby reducing poverty. The mechanisms responsible include increasing paid employment, raising the returns to self-employment, upgrading education and skills, and improving labor market programs. The policies underlying these changes are detailed in Section V below.

It is worth highlighting what the data do not show. It is not the case in general that countries’ economic growth comes at the expense of labor, either in the sense of workers as a whole being made poorer or in the sense of workers as a whole being left out.

Among the developing countries, the one important documented exception to the generalizations noted in this summary is South Africa. There, it was not the labor market that transmitted economic growth to the poor; rather, it was an expanded and more generous system of social grants that was responsible. In that case, it was the legacy of apartheid that brought non-labor-market mechanisms to the fore.

IV. Policies for Creating Better Labor Market Outcomes

This section examines four causal channels for creating better labor market outcomes: growth, trade, and aid; harnessing the energies of the private sector; expanding paid employment; and increasing the returns to self-employment.

A. Growth, trade, and aid

The evidence reviewed in Section III leaves no doubt about the importance of economic growth for improved labor market outcomes. This is not to say that economic growth is all that matters for improved employment outcomes. Nor is it meant to say that economic growth matters just for employment outcomes; it matters as well for countries’ ability to afford to create new social programs and expand existing ones. Rather, what I want to say is that economic growth matters importantly, and it should be pursued as part of an employment enhancing development strategy.

But it also bears mention that in addition to the rate of economic growth, what also matters importantly is the kind of economic growth pursued in a country. Growth may or may not be oriented toward the poor. In those cases where an anti-poverty focus is chosen, growth policies may be oriented toward people as workers to a greater or lesser degree; these policies are described further below. Alternatively, the poor may be targeted as consumers and citizens and reached through public spending aimed at fulfilling basic needs. But unless one or both of these
mechanisms are in place, the result may be well be economic growth of a type from which the
typical person derives little or no gain.17

As for international trade, there are some who say that in today’s globalized world, labor must be
repressed so that labor costs remain low and countries with low labor costs maintain their
comparative advantages (if in fact they had them in the first place). I think this is far too
pessimistic a position. Rather, I side with those such as Stiglitz and Charlton (2005) and Rodrik
(2007) who maintain that if the trade environment is carefully managed, more open international
trade can bring about better labor market outcomes and thereby reduce poverty. China is the
most prominent example of a country that has achieved rapid export-led growth, rapidly-rising
real wages, and an unprecedented reduction in poverty (see Section III), but it is by no means the
only one. Many countries in East and Southeast Asia and Latin America have also achieved high
rates of economic growth, substantial export growth, and falling poverty (Asian Development
Bank, 2007; ECLAC, 2011).

And then, there is the famous (and sometimes entertaining, sometimes depressing) debate about
foreign aid and whether it makes things better or worse; see, for example, the controversy
between Sachs (2005) and Easterly (2006). My feeling is this. The richer countries have often
stated that they aim to devote 0.7% of their GDPs to foreign aid. However, the United States and
Japan each devote just 0.2% of GDP to this cause. If an additional 0.5% of GDP were to be made
available for foreign aid by the United States, Japan, and other well- to-do countries, many more
worthwhile things could be done in the fight against global poverty. I am convinced that the
benefits from doing these things outweigh the costs, which is why I favor increased aid. At the
same time, I fully support the insistence of organizations such as the Bill and Melinda Gates
Foundation and the Clinton Global Initiative on measurability and scalability of results in all that
they do.

B. Harnessing the energies of private companies

Statistics presented in Section II showed that some ninety percent of developing country workers
work in the private sector. Some of these ninety percent are wage and salaried workers who have
regular contracts and enjoy social protections, but most are not. The majority are self-employed,
casual workers, and/or outside the ambit of social protection, often in individual or household
enterprises.

I think that the best way to understand what private companies do is to regard them as profit-
seeking institutions. They will hire workers or not, pay them well or not, train them or not, adopt
"high road” human resource policies or not, and make many other decisions based on what is in
their profit-maximizing interest to do.

If I am right, the profit-seeking interests of companies act as a constraint on those policy-makers
and organizations that seek improved labor market outcomes for workers. Public policies on the
part of national and international organizations and private policies on the part of labor unions,
other worker organizations, and non-governmental organizations (NGOs) need to be formulated
in view of this reality.
Private companies will want to hire the workers of a given country if they can make a higher profit by doing so than they can by hiring the workers of some other country or by hiring robots and very few workers. Although it has always been the case that businesses have had a choice about where to operate and which workers to hire, in today’s globalized world, their range of choices is far greater. Laws, regulations, and other institutions need to be chosen accordingly.

The market-oriented liberalizations in China and India - in the memorable words of Deng Xiao Ping, "Black cat, white cat, all that matters is that it catches mice” - produced enormous gains for workers in those economies. Essentially, the private sector was set loose and the economy flourished (though not, it should be added, without some serious abuses and problems).

Finally, the role of journalistic investigation and consumer movements should not be underestimated. It may be in companies’ enlightened self-interest not only to profess a concern for worker rights and working conditions, healthy products, honest dealings, and the environment but actually to act on that concern. Global companies including Nike, Citibank, Merck, Wal-Mart, Starbucks, Monsanto, Interface, and others have found that "principles pay" (Heal, 2008). As this paper is being finalized, Apple, Foxconn, and others are under enormous pressure to clean up their manufacturing practices and those of their suppliers (Duhigg and Bradsher, 2012; Fair Labor Association, 2012).

The actions of governments, NGOs, labor unions, student groups, and other civil society actors may well change what is in private companies’ profit-maximizing interests to do. I don’t think that foreign aid or other types of international development assistance will be made conditional on improved labor market practices, nor do I think that the ILO will gain any enforcement powers. At least for now, public pressure is likely to remain one of the most potent forces in inducing private companies to undertake pro-worker actions and reforms, along with ever-tightening labor markets and a consequent competition among employers for workers as discussed above.

C. Generating more paid employment

If policymakers in a country were to decide to prioritize the creation of more paid employment in the labor market, what might they do? International experience suggests a number of policy measures.

- **Avoid prematurely high labor costs.** By "prematurely high labor costs,” I mean labor costs that are higher than they would have been if they had been set by supply and demand in the labor market. Countless studies from around the world show that higher labor costs result in lower employment - in the language of economics, the wage elasticity of demand for labor is negative. Higher wages, more generous benefits to workers, and greater labor market protections are good for other labor market objectives (see Section IV.A) but they are not good for the objective of generating employment. Research on developing countries reveals a modest disemployment effect of minimum wages, and consequently a higher total wage bill (Freeman, 2010).

- **Remove undue barriers to employment.** Some countries such as India and South Africa have instituted stringent employment protection laws restricting dismissals of workers.
Such seemingly pro-worker legislation can have a perverse effect: knowing that they cannot dismiss workers in the event of a business downturn or unsatisfactory job performance, firms are reluctant to hire workers in the first place. Studies have found lower employment and higher poverty as a result (e.g., Besley and Burgess, 2004; Bhorat et al., 2001; Leibbrandt et al., 2010).

- **Increase employees’ skills and productive abilities** to the extent that skill deficiencies are causing job vacancies to go unfilled. We hear often that education and skills are the path to better employment opportunities and higher earnings. While any given individual may well be able to improve his/her labor market chances by acquiring greater education and skill, the argument does not extend automatically to an economy as a whole. Investing in education and skills may well be the right thing to do if positions offered by employers go unfilled because of a mismatch between the skills required by employers and the skills offered by would-be workers. (Whether it is the right thing to do or not depends on how the social benefits of education compare with the social costs in the setting in question.) But investing in skills and productive abilities may well be the wrong thing to do if employers are not hiring for other reasons such as lack of product market demand and if job-seekers are already holding out for jobs they deem suitable even if such jobs are not available. The last thing a poor country wants to do is invest in expensive education that generates more educated unemployment. Education-labor market linkages need to be explored carefully.

In those cases where investment in skills does seem warranted because of a shortage of workers with the desired skills, the question arises about how to do it. Mexico has a successful training program known by its Spanish acronym SICAT which provides for employers to offer training in skills they need such as lathe operating and air conditioner repairing. It may well be better to leave it to employers to decide in which occupations to offer training than for the Ministry of Labor to try to pick winners.

- **Create jobs for the poor.** So-called "workfare" programs have been tried in Argentina, Bangladesh, and the Indian state of Maharashtra (of which Mumbai is the capital), among others. By far the most ambitious of all is India’s National Rural Employment Guarantee Act (NREGA). NREGA guarantees to each rural household at least one hundred days of wage employment a year. NREGA has registered some successes (most importantly, earnings for participants who would otherwise not be working) and also some problems (far fewer than one hundred days of work, plus "operational deficiencies" including skimming by corrupt officials and nonpayment for work performed). The government of India is in the midst of a nationwide Unique Identification Number program which, when fully implemented, is expected to drastically reduce such corruption, not only in NREGA but throughout India.

- **Do not use limited development resources** to improve labor market information systems. Improved labor market information systems are designed to deal with one kind of circumstance - when employers want workers, workers want jobs, but the employers and workers cannot find one another. (Economists call this "frictional unemployment.") But agreement is widespread among labor economists that unemployment in developing
countries is not frictional; it is either deficient demand (employers wanting to hire fewer workers than are available and qualified) or structural (whereby a mismatch exists between the types of workers employers want to hire and the types of workers available to be hired). Improved labor market information systems address a non-problem; scarce public resources should not be allocated to them.

D. Increasing self-employment earnings

As an alternative to prioritizing the creation of more paid employment in the labor market, a developing country might concentrate on raising the earnings of the self-employed, which is how most of the poor are working. If this is the priority, what might be done?

- **Design products to help raise the productivity of the self-employed.** Organizations such as International Development Enterprises, D-Rev: Design for the Other 90%, KickStart, and Fuel from the Fields design products to overcome constraints facing the poor. An example of such a product is a garden drip kit that irrigates twenty square meters at a cost of just $3. Farmers who use this new system can earn much more per irrigated square meter than they could have without irrigation, then use the profits to buy more drip kits, irrigate more land, increase their profits, and so on. Another such product is a treadle pump resembling a Stairmaster that lifts water to the surface from up to seven meters below the ground. In Bangladesh, a cost-benefit calculation showed that a $50 million investment in treadle pumps by donors and smallholders produced an annual net smallholder return on investment of $150 million. Designing such products can be socially profitable in terms of earnings increases that far outweigh the costs.

- **Adopt a positive policy stance toward the self-employed and avoid hassling them.** Many more of the poor in developing countries are self-employed than wage employees. City councils in the major cities of South Africa spend a lot of money to stop “illegal, unlicensed street trading.” What makes such street trading illegal is that not enough permits are issued for all would-be traders, forcing the majority of traders to operate without permits. This official hostility is anti-development. If the city councils were to recognize that most of the poor people living in their jurisdictions have no choice but to earn their livelihoods from street vending and other such selfemployment activities and were to therefore adopt a more positive policy stance (or at least a less negative one), the urban poor would have a better chance of earning their way out of poverty. The informal economy should be nurtured, not repressed.

- **Provide the poor in agriculture with more to work with.** The poor in agriculture are often poor because they lack land, but they are also poor for other reasons. The Bill and Melinda Gates Foundation commissioned a study by the International Food Policy Research Institute to investigate which of more than 250 possible interventions are actually effective in achieving agricultural development. The study (Spielman and Pandya-Lorch, 2009) identified 20 interventions as "proven successes." They included the Green Revolution in Asia, improved maize in sub-Saharan Africa, pearl millet and sorghum in arid lands, connecting the milk grid in India, and land tenure reform in
Vietnam. More and more, foundations and other development organizations are engaged in such evidence-based policy formulation.

- **Facilitate supplemental off-farm wage-employment and self-employment.** Even among farm households, it is the norm to engage in more than one activity. Off-farm activities can be stimulated in a variety of ways: by investing in "hard infrastructure" such as roads and electrification and "soft infrastructure" such as banking systems and market information systems; by investing in general education and specific skills; and by providing greater access to credit and financial savings, on which more below. "Rural" should not be equated with "agricultural"; a prime example of successful rural development with a strong non-agricultural component is the case of Taiwan.

- **Make capital available to the poor.** The poor lack many kinds of capital. As a result, many worthwhile investments that would raise their earnings are not undertaken. Studies have shown monthly rates of return of 15% in the case of Mexico (McKenzie and Woodruff, 2006) and 5% in the case of Sri Lanka (de Mel, McKenzie, and Woodruff, 2008). And yet when the poor can borrow, it often is at exorbitant interest rates: 4.69% per day in Chennai, India, about 40% per month in the Philippines, and 10% per month in much of the rest of the developing world. It does not have to be like this. The Grameen Bank in Bangladesh (which was awarded the Nobel Peace Prize jointly with its founder, Dr. Muhammed Yunus) charges borrowers 12-17% per year and enjoys an almost 100% repayment rate. The government of the Indian state of Andhra Pradesh (which, with 80 million people, would be the fourteenth most populous country in the world if it were a country) has arranged for banks to lend to groups of women at the rate of 12% per year; moreover, groups that repay their loans in full and on time pay just a 3% per year interest rate, the government paying the bank the other 9%. I regard microcredit as one of the best and most cost-effective ways known to create opportunities for the poor to build up their own businesses and earn their way out of poverty.

- **Build skills and business know-how.** In East Africa, the majority of micro and small entrepreneurs have at most primary education. They lack not only basic education and life skills but also basic business skills such as the fundamentals of operating and managing a business, saving safely, obtaining credit, learning new technologies, and knowledge about market opportunities. Many organizations are now involved in developing business know-how. They include: the ILO through its Workers Activities Programme (ACTRAV); companies such as Coca-Cola Sabco and Goldman Sachs; worker organizations such as the Self-Employed Women’s Association (SEWA) of India; and government programs such as PAFPA in Cote d’Ivoire and the Foundation for International Community Assistance in Peru. Evaluation studies of programs like this typically show increased earnings for certain groups of participants, though not all. However, for the most part, cost-benefit comparisons have not been made.

- **Stimulate microfranchising.** Microfranchising brings together entrepreneurs who wish to expand their businesses with people who seek to operate their own self-employment businesses but may not have the business know-how. The Grameen Bank operates a village phone program in Bangladesh and the Grameen Foundation a similar program in Rwanda. Village phone ladies (nearly all microfranchisees are women) are provided a
loan enabling her to buy a cell phone business in a box which includes the phone itself and instructions on how to operate the phone, charge customers for minutes, and otherwise make the business a success. Other examples of microfranchising businesses are VisionSpring, which makes available low cost eye exams and affordable reading glasses in El Salvador, India, and Guatemala, and Honey Care Africa, which sets up beekeepers with hives, loans, training, extension services, and a guaranteed market for their honey at fair trade prices.

E. In summary

This section has highlighted four groups of policy interventions -- growth, trade, and aid; harnessing the energies of private companies; generating more paid employment; and increasing self-employment earnings - suggesting specific policy actions within each. No one policy instrument is enough. To stimulate the growth-employment-poverty nexus, no policies should be excluded a priori (nor included a priori either).

V. Issues and Guidelines for Donor Engagement

A. Summary of what has come so far

This paper has documented the many ways in which people in the developing world are working hard and working poor. In moving from lower-income countries to richer ones, we find:

- No tendency for the unemployment rate to fall; unemployment rates are on average higher in richer countries than in poorer ones.
- A tendency for the mix of employment to improve in favor of higher-earning work categories.
- A tendency for real labor earnings to increase on average.
- A tendency for real labor earnings to increase for every major group in the labor force.
- A tendency for the poverty rate to fall, using an internationally comparable poverty line.

And moreover we find that when economic growth has taken place, which it has in 90% of countries, it has brought about improved labor market outcomes in nearly all of them.

The paper also detailed four policy areas for creating better labor market outcomes. These included: growth, trade, and aid; harnessing the energies of private companies; generating more paid employment; and increasing self-employment earnings. A number of specific interventions were suggested within each.

The balance of this section tackles three major issues. First, in confronting and meeting the employment and development policy challenges identified above, it would be helpful for donors to set their own objectives and confront tradeoffs explicitly and help practitioners in client countries do the same. Second, returning to the five countries highlighted in Section III - China, India, Brazil, Mexico, and South Africa - I present a brief characterization of each country’s approach to development and offer provisional suggestions based on that country’s experience.
for other, similar types of countries. And third, I pose a number of key questions for policy-relevant research, all of which have at most only partial and scattered answers for the developing countries of the world.

**B. Setting objectives and facing tradeoffs**

Too often, so-called "policy implications" are offered without specifying an explicit welfare criterion or criteria, posing a well-formulated model (or even a not-so-well-formulated model), or a specific statement about what policy instruments are or are not under consideration. This is at least as much of a problem in the employment area as it is in any other of development.

To try to overcome this objection, it is important to set objectives and face tradeoffs. One presumed objective of development is to help the poor. How to help the poor is open to discussion. Let us assume that helping the poor through improving their employment opportunities is an agreed-upon goal. Let us be clear, though, that helping the poor may not be the only goal of development policy; helping others in other parts of the income distribution or members of target groups may also be an important development goal. And let us also be clear that improving employment opportunities for the poor may not be the only means of helping them; helping the poor through improving and spreading social programs may be another means, for example.

The international community has highlighted four objectives for labor market policy. One is to expand employment opportunities. A second is to increase the earnings of workers so that they and their families can achieve socially acceptable living standards. A third is to protect workers against the loss of jobs or labor market earnings more generally. And a fourth is to insure respect for core labor standards in the workplace.

When there are multiple objectives like these, tradeoffs are likely, both on the policy side and on the budgetary side. On the policy side, a policy action that may be beneficial for one policy objective might work directly against the attainment of another policy objective. Raising a minimum wage, for example, might raise the earnings of those who are employed but reduce employment and hence earning opportunities for those who do not keep their jobs or do not get jobs in the first place. Those at higher levels of policy-making - in this case, it might be the ministry of labor - may then have to decide which is the more pressing goal in a given country context: to raise the earnings of the employed or to increase employment.

Meanwhile, on the budgetary side, the poorer the country, the more limited are the resources for such policy interventions. Resource scarcity makes it incumbent upon policy-makers to pose the core question of economics - how to allocate scarce resources among alternative uses - in the particular context in which they are dealing. Continuing with the question of how to allocate scarce resources among alternative uses in the labor market area, the scarce resources could be allocated for direct public sector employment creation, tax breaks for employment creation in the private sector, education and training, or a whole host of other actions in the labor market or bearing on the labor market. But helping the poor may take a completely different form:
subsidizing food or housing, running programs for children and pregnant women, and the like. A higher-level authority such as a ministry of planning may need to adjudicate between these several competing claims on the limited available resources.

In making such decisions, it is not enough just to say that expenditures in a given area are meritorious; they need to be more meritorious than other expenditures. It is not enough just to say that actions in a given area benefit the beneficiaries of the program; the concern needs to be with social benefits to all members of society, not just those members of society who participate in the program in question. And it is not enough just to look at benefits; equal attention needs to be paid to costs, both the direct costs of the action under consideration but also the opportunity cost - that is, what will not be undertaken, because this program is undertaken.

What I have just described are some of the questions that would need to be asked and answered in a solid social cost-benefit analysis. I maintain that although it is hard to answer these questions well, it is better to answer the right questions approximately than the wrong questions exactly.18

C. Some provisional conclusions19

The sponsors of this research have requested conditional conclusions about what policy measures would be most helpful for improving labor market conditions and thereby reducing poverty in countries of different types. The suggestions that follow are necessarily speculative, offered in the spirit of "If I had to decide right now what might be the highest priority interventions for a developing country most closely resembling China or India or Brazil or Mexico or South Africa, what features of the country’s development approach are most salient and what do these features suggest would be priority policy interventions?"

Starting with China, no country matches China in population size (only India comes close), and no country has achieved China’s record of rapid and sustained economic growth. As we all know, China’s economic growth has been led by its manufacturing sector. Based on the prior experience of Japan, the later experiences of the "Asian tigers" (Hong Kong, Singapore, South Korea, and Taiwan), and the concurrent efforts of the "Asian cubs" (Indonesia, Malaysia, the Philippines, and Thailand), China saw the opportunity to improve conditions for its workers by embodying their labor in products manufactured for export to the rest of the world. China rightly figured that goods that were world class in quality and competitive in price would find ready markets, especially in the developed countries, whose purchasing power is the greatest. Not only did they harness the energies of capitalists within China and in the Chinese diaspora but they also attracted direct foreign investment on a massive scale. Besides being so numerous, Chinese labor is hard-working, well-educated, and increasingly English-speaking. Despite the rising real earnings in China and the so-called "labor shortages" - which are actually signs of companies’ resistance to paying ever-rising wages - multinational companies are producing in China and hiring workers there precisely because production conditions are better there than just about anyplace else.

What other countries can learn from this experience is that they too can endeavor to make conditions attractive so that private firms will want to invest in their countries as well (or instead) and engage their workers to produce for the world market. Many countries have done this,
including neighboring Vietnam, which has been particularly successful in improving labor market outcomes and reducing poverty at an impressive.

China (and later Vietnam) instituted major economic reforms; the four economic liberalizations introduced in China under the leadership of Deng Xiao Ping included liberalization of agriculture, industry, technology, and defense and were aimed at opening the country to foreign investment, the global market, and private competition. To succeed with such an outward-oriented development strategy in other countries, development officials need to ask hard-headed questions about what advantages and disadvantages their country offers, build on their advantages, and remedy some of the disadvantages.

Turning now to India, that country too embarked on a program of market-oriented liberalization. The main elements of India’s economic liberalization were greater reliance on the private sector, opening up to foreign trade and foreign direct investment, reorienting government activities to those that the market was unlikely to perform well, and ensuring macroeconomic balance and a well-run financial sector.

We all know that India is a country of great cities: among them, Delhi, Mumbai, Kolkata, and Chennai. We know of its world class information and communication technology (ICT) and business process outsourcing (BPO) enterprises in cities like Bangalore and Hyderabad. And we know that it produces more university graduates each year than the United States.

Yet, formal wage employment in cities constitutes a very small part of India’s labor market. Some 85% of Indian workers are self-employed or in casual employment. The average educational attainment is low, even by developing country standards, and only a small fraction of those educated meet international quality standards (5% of university-educated engineers, according to one estimate). And India remains a predominantly rural country; a majority of its workers are still in agriculture.

A fundamental decision being faced by India and other countries at similar levels of development (India is now classified as a lower-middle income country, a group which also includes Egypt, Indonesia, the Philippines, and Vietnam, among others) is whether to try to use scarce development resources to help the poor where they are or to help get them out of where they are. If India were to try to help the poor get out of where they are, they could try to improve employment conditions by directly employing the poor in public sector jobs or by stimulating private sector firms to employ more workers or to employ non-wage workers in the public sector. To create wage jobs for even a fraction of India’s self-employed would require massive expenditures, far exceeding the nation’s means.

It appears that a more cost-effective alternative - the one India has in fact chosen - is to help the poor earn more in places where the poor now are. One way in which this is being done is through low-cost loans for the self-employed and household enterprises - most impressively, the self-help group-bank linkage model in Andhra Pradesh cited above. Another way in which the poor in India are being helped in the geographic locales where they already are is through India’s National Rural Employment Guarantee Act, also discussed above, which provides 100 days of off-farm employment in rural areas to any household which shows up to take advantage of it.
Such low-cost, self-targeted interventions hold considerable promise for other low- and lower-middle-income countries which, like India, have masses of self-employed people and relatively few wage employees.

Turning to middle-income countries, Section III also highlighted Brazil, Mexico, and South Africa. These three countries are at similar stages of economic development and face similar challenges. Their workers are caught in the middle: they find it difficult to compete on cost terms with workers in poorer countries like China and India, and they also find it difficult to compete with workers in the richer OECD countries in terms of productivity.

Comparative advantage has shifted significantly in these countries. Mexico has some unique advantages: it is the only developing country that borders the United States, plus it is part of the long-standing North American Free Trade Agreement. And yet, manufactures that had been produced and/or assembled in Mexico ten years ago - including telephones, PC monitors, transistors, vacuums, hard discs, and many others - are not made there any longer: most have moved to China (Carrillo, 2010). Mexican firms are succeeding with new products - avocados, for example. For its part, Brazil has faced the rise and fall of its furniture industry. Nowadays, Brazilian firms are succeeding with different new products: among them, jet aircraft, soybeans, and pork (Sabel et al., 2012). South Africa has become a major exporter of fruits and vegetables during the northern hemisphere’s winter season. The point is that comparative advantage changes, and for middle-income countries to succeed (and low-income countries too), they need to be prepared to change along with it.

Most middle-income countries have high rates of wage employment relative to self-employment and high rates of self-employment relative to unemployment. In Brazil, for example, there are twice as many wage employees as there are other employed persons; in turn, there are three times as many self-employed in Brazil as there are unemployed (Fields and Raju, 2007). Traditionally, Mexico has maintained a low rate of unemployment, averaging 3.6% over the last twelve years, and a high rate of self-employment. South Africa is very much an outlier in this respect: there, the number of self-employed and the number of unemployed are about equal.

These different rates of wage employment, self-employment, and unemployment suggest different policy emphases in these countries and others like them. First, in countries with high rates of self-employment, an intervention that is likely to be cost-effective is to enable microenterprises to borrow at low cost, perhaps along the lines of the self-help group-bank linkage program in the Indian state of Andhra Pradesh, described above. Second, when skills are in short supply, it may be cost-effective for government to fund skills development in areas in which employers have effective demand, much as is being done under the SICAT program in Mexico. Third, government may be in a position to increase the demand for labor by encouraging the development of export industries, much as the government of China has done, or the development of export services, much as the government of India has done. (Note: developing exports does not necessarily mean unfettered openness to imports.) But because China is now half urban and half rural, whether to develop urban-based export industries and services or to develop rural China, which is much poorer, is itself an issue of intense discussion. Fourth, in those cases such as South Africa where powerful forces push strongly for high wages,
generous benefits, and strong job protections which are only available for a small fraction of the work force ("the insiders"), government can launch a national dialogue assuring that the voices of the self-employed and the unemployed ("the outsiders) are also heard. 20

Finally, my experience suggests some things which in general should not be done. One is general tax cuts and subsidies. They are unfocused and untargeted, and therefore unlikely to be cost-effective. Targeted and self-targeted programs such as conditional cash transfers would probably be better in this respect. A second is that it may be important to invest in education and training in a country, but the rationale for such investment should not be that workers with more education and training earn more than workers without. A better rationale would be to conduct a social cost-benefit analysis to determine whether the economy as a whole would be more productive if the labor force were better educated and trained (and in what ways) and whether the gain in economy-wide productivity outweighs the gain in economy-wide costs of producing the additional education and training. And third, improved labor market information systems are unlikely to increase employment - what they are likely to do in a typical developing country context is reallocate existing employment opportunities to those individuals with more labor market information from those with less. It is by no means obvious why the limited funds available for employment programs should be used in this way.

In choosing among these and other policy alternatives, please bear in mind the message of Section V.B: that policy decisions should be based on comparisons of social benefits and social costs for alternative interventions. The best use of scarce development resources varies from place to place and circumstance to circumstance.

D. Some final words

Given the development community’s focus on poverty reduction as being at the core of development policy and given also the demonstrated importance of labor earnings for poverty reduction, it is lamentable that the development banks, national aid agencies, and other development organizations have not devoted more attention to research on employment, earnings, and the functioning of labor markets. Specific research questions are presented in the appendix.

Much of the existing research, compilations of data sets, and policy work is organized along regional lines. In Africa, for example, household surveys exist for thirty-six countries, of which Benin, Ethiopia, Gabon, Morocco, South Africa, Tanzania, and Zambia have more than one year of data available. The growth-employment-poverty nexus could be analyzed in these countries, but for the most part has not yet been (Bhorat, 2012). A wealth of household surveys for Latin American countries is available at the World Bank, the Inter-American Development Bank, and CEDLAS, a research institute in Argentina. The Asian Development Bank performs a similar role for Asia.

But despite the similarities within geographic regions, it seems to me that there are even more similarities in lessons for the growth-employment-poverty nexus by looking at countries at similar levels of development in different parts of the world. Brazil has more to learn from other far-away middle-income countries such as Malaysia than it does from its low-income neighbor,
Bolivia. Bolivia has more to learn from such far-away low-income countries as Haiti, Bangladesh, and Ethiopia than it does from its much richer neighbors Peru, Chile, Argentina, Paraguay, and Brazil. The Dominican Republic can learn more from Mauritius in far-away Africa than it can from Haiti, with which it shares an island. And so on.

The reason I suggest looking for lessons from countries at similar levels of development, wherever in the world they might be, is that the level of development is a central determinant of which policy issues are important in which places. Research on India should be focused on the 85% of workers who are self-employed or casual wage employees: how to get them out of self-employment and casual wage employment and how to raise their earnings within their present job statuses if they have no choice but to remain there. But most of the labor market research I have seen on India concerns the other 15% of workers, those who are regular wage employees. In China, on the other hand, the balance should be different; because the country is now half-urban, half-rural, so the attention of the Chinese government, development organizations, and the research community should be divided roughly equally between urban issues and rural ones.

Let us try to draw policy prescriptions when our knowledge permits us to but be humble enough to acknowledge when our judgments are driven by hunches rather than hard facts. This paper will have succeeded if it has suggested some fruitful ways of making aid more targeted and closing the knowledge gap in the near future.
References


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