Globalisation and Workers in Developing Countries

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Abstract: Stories of the positive and negative effects of globalisation on workers in developing countries abound. However, a comprehensive picture is missing and many of the stories are ideologically charged. This paper reviews the academic literature on the subject, including several studies currently underway, and derives the implications for public policy. Firstly, it deals with the effects of openness to trade, foreign direct investment and financial crises on average wages. Secondly, it discusses the impact of exposure to world markets on the dispersion of wages by occupation, skill and gender. Thirdly, it describes the pattern of job destruction and job creation associated with globalisation. Since these two processes are not synchronised, the fourth issue addressed is the impact on unemployment rates. Fifthly, the paper reviews the labour market policies that can be used to offset the adverse impacts of globalisation on employment and labour earnings. Finally, it discusses how the international community could encourage developing countries to adopt sound labour market policies in the context of globalisation.

*Keywords:* globalisation, labour market policy, dispersion of wages, unemployment.

*JEL Classification:* E600, F020, F230.

1. INTRODUCTION

The labour market is one of the main channels through which globalisation can affect developing countries. Increased import penetration, export sales, competition in services, foreign direct investment and exchange rate fluctuations prompted by international capital movements could all, in principle, have an impact on employment and labour earnings. A common concern is that “cheap” labour and the “race to the bottom” may be the flip side of globalisation. To become more competitive, countries may need to dismantle their trade barriers, abolish their legal monopolies, privatise their state-owned enterprises and reduce over-staffing in their
bloated bureaucracies. These reforms could lead to the massive loss of “good jobs” and boost unemployment rates. The macroeconomic fluctuations resulting from short-term capital movements could also increase job insecurity. On the other hand, the delocalisation of production to developing countries in sectors such as food processing, textiles or garments could also increase the demand for labour, thus expanding employment opportunities and raising workers’ earnings. New jobs in export industries might not be as good as the privileged jobs lost in protected sectors, but for the young women from rural areas who are hired in large numbers by those industries, they could be much better than the alternatives.

Anecdotal evidence on all these positive and negative effects of globalisation on the labour market abounds. However, a comprehensive picture is missing. Lacking this picture, the policy debate has taken strong ideological biases, from all sides. For some, all the fuzz about the negative impact of globalisation on workers is just a disguise to support protectionism, and to introduce new obstacles to the free flow of goods, services and capital across countries. Those who hold this view tend to downplay any adverse effects of openness on employment and wages. For others, the adverse effects are large enough to justify an immediate policy response, under the form of additional labour market regulation and more generous social security programmes, supplemented by sanctions for those countries that fail to comply. This perspective often exaggerates the effectiveness of labour market interventions in developing countries, and minimises some of the side effects of both domestic interventions and international sanctions. Rigorous economic analysis and, more importantly, solid economic evidence are the only way to defuse these ideological claims.

A third view takes a different stance. It sees wage earners as a privileged elite in most developing countries, where farmers and the self-employed account for most of the labour force. From this perspective, whether this elite stands to lose from globalisation should not be a concern, as long as the poor are better off. This view, however, is questionable on both economic and political grounds. From an economic perspective, the first-order effects of globalisation on the labour market are probably those it has on salaried employment and wages. If these effects are small, it is dubious that the poor will have much to gain from globalisation. From a political perspective, salaried workers in formerly protected activities or in the public sector are one of the social groups more able to articulate and convey its grievances. Alienating this group may delay the opening up of the economy and the adoption of much needed economic reforms. The key issue, therefore, is finding cost-effective ways to mitigate the adverse effects of globalisation on salaried workers, while making it work for the poor.

This paper proposes an analytical review of the evidence on the impact of globalisation on employment and wages, including some preliminary results from work in progress. This review does not always disentangle the effects of increased exposure to international trade from those of new technologies, or of capital flows across countries. But from the perspective of developing countries, trying to isolate
those effects may be a bit specious. Globalisation is, precisely, the combination of all these changes in the way developing countries interact with the rest of the world. Selling goods and services abroad often require the use of new, skill-biased technologies. These technologies are, in turn, embodied in capital goods; the latter need to be imported from industrial countries. The key issue, therefore, is not to identify which of the channels is the most relevant, but rather to assess the labour market impact of the overall package. Moreover, globalisation also puts pressure on the governments of developing countries to reform domestically, so as to make their economies more competitive. Allowing competition in utilities, or privatising state-owned enterprises are often part of the globalisation “package”. This review will also address the labour market impact of these reforms.

The next section of the paper deals with the impact of openness to trade and foreign direct investment on wages. The focus is on aggregate figures and the dynamics of the adjustment process. Section three goes beyond the aggregates, and assesses whether globalisation has a differential impact on workers depending on their occupation, educational attainment or gender. Section four reviews the effects of globalisation on job destruction and job creation. Since these two processes are not synchronised, an impact on unemployment rates is conceivable. This impact is discussed in section five. The subsequent two sections of the paper deal with the appropriate policy responses to globalisation. Section six reviews a variety of programmes that have been used in developing countries to mitigate the impact of job losses and declines in earnings. Section seven discusses the role the international community should play in promoting a sound policy response to globalisation in developing countries. Section eight concludes.

2. AVERAGE WAGES

According to the most popular model in international trade theory, globalisation should equalise factor prices across countries. Thanks to trade in goods and services, and to capital mobility, labour earnings should become similar in industrial and developing countries. This convergence could take place even in the absence of any international migration. If this is correct, globalisation has to be beneficial to workers in developing countries.

At a first glance, the abyssal differences in wage levels between, say, Bangladesh and the US cast doubts on the validity of this argument. However, several studies have shown that there is substantially more wage equalisation across countries than suggested by the raw data. Trefler (1993) analysed the variance of wages measured in purchasing power parity across 33 countries, industrial and developing. He found that 90 per cent of the variance could be explained by differences in productivity. This line of research was expanded by Freeman (1994), who considered 51 countries and relied on indirect productivity indicators, such as the average schooling of the population and its urbanisation rate. According to Freeman’s results, a third of the variance in average wages in manufacturing could be ascribed to those indirect
productivity indicators and another third to differences in purchasing power parities. Using a broader sample, Rodrik (1999) showed that a strong relationship existed between wages and productivity in the manufacturing sector. Rodrik also showed that the outcome depended on the political regime, as wages are higher (other things equal) in more democratic countries.

While these studies do not directly deal with globalisation, they all suggest that its effect on wages should be positive. To begin with, they all reveal that a strong association exists between wages and productivity at the country level. It is generally accepted that productivity grows faster in more open economies (see, for instance, Sachs and Warner, 1995, and Sala-i-Martin, 1997). Therefore, wages can be expected to grow faster too. In addition, both Freeman and Rodrik include the ratio of foreign trade to GDP among the explanatory variables in their regressions. The coefficient multiplying this ratio reflects the direct impact of openness on wages, not its indirect impact through productivity levels. That coefficient turns out to be positive in all the specifications in both studies. It is statistically insignificant in the study by Rodrik, but highly significant in the study by Freeman.

The hypothesis that wages grow faster in more open economies is supported by Figure 1, which was constructed using wage data from dozens of occupations in 70 countries. The wage data were originally collected by the International Labour Office through its October Survey and subsequently standardised in a comparable format by Freeman and Oostendorp (2000). The October Survey, conducted since 1924, has rarely been used for research purposes because the raw data in it suffer from comparability problems. Occupations (e.g. bricklayer, teacher, etc.) are defined quite precisely. However, depending on the country and occupation, the raw data may refer to wages or to earnings. The reported figure may be a minimum, a maximum, an average, a median or another indicator. Figures can also refer to men, women or both. Furthermore, the reference period can be the hour, the day, the week or the month, among others. Freeman and Oostendorp re-calibrated these data so as to make them comparable by assuming a stable relationship between different wage measures. The data used in Figure 1 correspond to the average monthly wages of men, in current US dollars.
Figure 1: Wage growth by country groups

Source: Based on work in progress by Freeman, Oostendorp and Rama (2001).

Note: Wages are measured in current US dollars, as averages across a common set of occupations, using data from Freeman and Oostendorp (2000). Countries are classified as non-globalisers, rich or globalisers as in Dollar and Kraay (2001). Wage data for the 1980s are from period 1983-1989, whereas wage data for the 1990s are for 1990-1998.

The 70 countries considered in Figure 1 are classified in three groups, using the approach proposed by Dollar and Kraay (2001). The first group, which is by far the largest, is made of countries that are not yet fully integrated with international markets. The two other groups, much smaller, are composed of industrial countries, which have been open for quite a long time, and of “recent” globalisers. These groups comprise 14 and 13 countries respectively. Figure 1 reports the growth rate of the average wage between the 1980s and the 1990s, for the largest common set of occupations across all 70 countries. This growth rate is highest for the recent globalisers and lowest for the non-globalisers. Therefore, the results reported in Figure 1 suggest that openness is good for workers.

A more disaggregated analysis reveals a more complex picture, however. Firstly, the growth rates depicted in Figure 1 are only relevant for those who do earn a wage, whereas globalisation could in principle lead to substantial job losses. The impact of globalisation on job creation and job destruction will be addressed in section four. Secondly, these growth rates refer to average wages, but some workers may gain more than the average, while others may not do as well, or may even lose. The differential impact of globalisation across workers will be discussed in section three. Thirdly, the growth rates in Figure 1 summarise a long-time trend, but the dynamics of globalisation could involve a temporary decline in wages. The issue then is
whether the present value of the gains from globalisation is large enough to offset the short-term losses. The rest of this section deals with the dynamics of wage adjustment.

Figures 2 and 3 summarise the impact of openness on wages over a five-year period. These two figures were constructed based on a regression explaining the level of wages as a function of two openness indicators: the ratio of foreign trade to GDP and the ratio of foreign direct investment (FDI) to GDP. In addition to these two indicators, the regression controls for country, occupation and year. The wage data are, again, from Freeman and Oostendorp (2000). The solid line in Figures 2 and 3 indicates the point estimate of the coefficient multiplying the openness indicator considered. The dotted lines demarcate the 95 per cent confidence interval for that coefficient.

**Figure 2: Wages and openness to trade**

![Figure 2: Wages and openness to trade](image)

*Source:* Based on work in progress by Freeman, Oostendorp and Rama (2001).

*Note:* This figure reports the results of a regression explaining the log of wages, in PPP dollars, as a function of the trade-to-GDP ratio (based in dollar figures). There is one observation per country, occupation and year, over period 1983-1998. The regression includes fixed effects for all countries, occupations and years. It also controls for the ratio of foreign direct investment to GDP. Data on wages are from Freeman and Oostendorp (2000) and data on other variables from the World Bank. The solid line reflects the point estimate of the coefficient of interest. The dotted lines indicate the 95 per cent confidence interval.
Based on Figures 2 and 3, the short-term impact of trade liberalisation on wages is negative, whereas the short-term impact of foreign direct investment is positive. If the results in these figures are to be interpreted literally, an increase in foreign trade by 10 per cent of GDP leads to a 3.5 per cent decline in wages. An additional 1 per cent of GDP in foreign investment, on the other hand, would raise wages by almost 2 per cent. The combination of these two figures highlights the importance of the investment climate. If the opening up of the economy fails to attract foreign capital, wage losses could be sizeable.

The short-term impacts revealed by Figures 2 and 3, estimated using aggregate data, are consistent with evidence from microeconomic studies. Trade liberalisation has been associated with declines in manufacturing sector wages in several developing countries. In Mexico, a reduction in the license coverage of output from 90 per cent to 10 per cent led to a 4 per cent decline in wages measured at the plant-level; a reduction in the industry tariff from 50 per cent to 10 per cent led to a decline of almost 7 per cent (Revenga, 1997). In Morocco, a reduction in tariffs by 10
percentage points led to a decline in the wages of state-owned enterprises by almost 3 per cent (Currie and Harrison, 1997). In Uruguay, trade liberalisation did not reduce wages measured at the sector level, but it did not raise them either (Rama, 1994). On the other hand, microeconomic studies dealing with foreign direct investment systematically report a positive impact on wages. In Indonesia, foreign-owned firms pay more than locally owned ones, after controlling for plant characteristics; moreover, higher foreign presence leads to higher wages in locally-owned firms (Lipsey and Sjoholm, 2001). In Mexico and Venezuela, there is no evidence of a spillover on locally owned firms; wages are, nevertheless, higher in foreign-owned plants (Aitken et al., 1996).

While the impact of foreign direct investment on wages fades over time, the impact of openness to trade becomes significantly positive. According to Figure 3, foreign direct investment has no significant effect on wages after five years. If Figure 2 is to be interpreted literally, the negative effect of openness to trade on wages is offset after three years. In practice, the precise timing of this reversal depends on the specification and the openness indicator used. For instance, the change in the sign of the coefficient takes place in the fifth year when using the openness indicator constructed by Sachs and Warner (1995), instead of the trade-to-GDP ratio. The indicator by Sachs and Warner combines the average tariff rate, the coverage of non-tariff barriers, the black market premium for foreign exchange, the existence of a marketing board for commodity exports and the socialist nature of the economy.

The evidence reviewed so far refers to the effects of international trade and foreign direct investment on wages. However, financial crises can have a substantial impact too. Using time series data from 67 crisis episodes, Diwan (2001) shows that the labour share of income falls, often dramatically. In most cases the subsequent recovery is not total, implying that episodes of crisis bring a net loss to labour. To the extent that international capital mobility makes financial crises more likely, the short-term losses from globalisation could be much larger than suggested by the evidence on the effects of international trade. For Diwan, the sheer magnitude of the losses is due to the fact that capital has become highly mobile, whereas labour is not. Because the returns to capital cannot be adjusted downwards in times of crises, the entire burden of the adjustment falls on labour.

3. THE DISTRIBUTION OF WAGES

On the surface, it may seem that globalisation does not affect the wage distribution. Figure 4 reports a measure of the dispersion of wages by occupation, across different levels of openness to trade. Each point in this figure corresponds to a country and year, over period 1983-1998. The data on wages by occupation are, once more, from Freeman and Oostendorp (2000). The dispersion measure used to construct this figure is the standard deviation of the log of wages, which measures the typical gap, in relative terms, between the wage in any of the occupations considered and the
average wage. If this gap is multiplied by one hundred, it can be interpreted as a percentage. The higher the gap, the higher is wage inequality.

**Figure 4: Dispersion of wages across occupations and openness to trade**

![Diagram showing dispersion of wages across occupations and openness to trade.](image)

*Source:* The dispersion of wages by occupation was calculated using data from Freeman and Oostendorp (2000). Data on the trade-to-GDP ratio are from the World Bank.

According to figure 4, wage inequality across occupations does not increase with openness. If anything, it could decline. A more rigorous analysis, allowing for different levels of wage dispersion by country and year, fails to unveil any systematic impact of globalisation. Neither the ratio of trade to GDP, nor the openness indicator constructed by Sachs and Warner, nor the ratio of foreign direct investment to GDP have a statistically significant effect on the dispersion of wages by occupation (Rama, 2001b). The results do not change when industrial countries are excluded from the analysis. However, this apparent neutrality of globalisation hides important changes along two dimensions: education and gender.

According to the most popular model in international trade theory, globalisation should reduce the wage premium to education in developing countries. In one of its simplest versions, this model considers two regions of the world and two factors of production: skilled and unskilled labour. The two regions differ in their endowments. Skilled labour is abundant in industrial countries and scarce in developing countries. Globalisation can be interpreted as a dramatic reduction in trade barriers and transportation costs. As a result of this reduction, the two regions of the world face an incentive to shift their product mix in favour of the sector in which they do have a comparative advantage. Thus, there is an increase in the
demand for skilled labour in industrial countries, and an increase in the demand for unskilled labour in developing countries.

While the argument in the previous paragraph may sound a bit abstract, it has often been used in the policy debate. In its first comprehensive report on poverty, the World Bank (1990) claimed that labour-intensive growth was one of the main avenues to poverty alleviation. Given that (unskilled) labour is the main asset of the poor, removing trade barriers and other market distortions was seen as one of the most effective ways to reduce poverty. Wood (1994) used a similar argument to explain the diverging paths of continental Europe and the US. According to Wood, globalisation was pushing down the wages of the unskilled in both. In the US, this trend could explain increased inequality. In continental Europe, where minimum wages and other labour market interventions were deliberately used to prevent the decline in the wages of the unskilled, the trend led to high unemployment rates.

But is this argument relevant in practice? In industrial countries, most economists are sceptical. Skill-biased technological change, as reflected in the introduction of computer technology in a variety of activities, is seen as a more likely candidate than globalisation to explain the fate of unskilled workers. The international trade theory argument requires a change in relative prices. Goods produced with skilled labour should become cheaper in developing countries, and the same should happen to goods produced with unskilled labour in industrial countries. This latter effect appears to be too small to explain the relative decline in the wages of unskilled workers. Also, the international trade theory argument operates through a change in the structure of production between sectors. However in the North, changes in the composition of employment towards skilled labour have occurred mainly through shifts within sectors, rather than between sectors.

In developing countries, several studies suggest that the wage premium to education has increased during periods of trade liberalisation. Robbins (1997) examined wages in Colombia’s seven principal cities over 1976-1994. He claimed that growth in the supply of skills lowered, and trade liberalisation and real devaluation raised, wage dispersion. Robbins and Gindling (1999) present evidence that trade liberalisation in Costa Rica led to an increase in the relative demand for more-skilled workers. Green et al. (2000) examined the level and dispersion of wages, the skilled wage premium and employment composition before and after trade liberalisation in Brazil. They found a rise in the returns to college education and a decrease in the returns to intermediate levels of education. Beyer et al. (1999) showed that a positive relationship existed between returns to education and openness in Chile, during 1960-1996. In their paper, the earnings gap between college graduates and workers with primary education decreases with the share of the labour force that has college education, increases with openness and decreases with the relative price of tradable goods (more specifically, textiles).

One common difficulty in all these studies is to disentangle the effects of globalisation from those of other shocks and policy reforms. Behrman et al. (2000)
address this difficulty by considering a variety of policy reform indicators across 18 Latin American countries over the period 1980-1998. These indicators are also combined in a composite reform index. Behrman et al. find that reform overall has had a short-run disequalising effect of expanding wage differentials, although this effect tends to fade away over time. This disequalising effect is due to the strong impact of domestic financial market reform, capital account liberalisation and tax reform. On the other hand, privatisation contributed to narrowing wage differentials and trade openness had no effect. However, the paper also explores the effects of reforms on wage levels, and finds almost opposite results. Reforms had a positive effect on real average wages, but a negative effect on the wages of less-schooled workers.

While all these studies could be subject to methodological criticism, taken together they cast doubts on the empirical relevance of the international trade argument or, at least, of its simplest version. Several attempts have been made to reconcile the theory and the facts. One of them, by Wood (1997), points out that most of the evidence on increased wage inequality comes from Latin America and, to some extent, Latin America may be suffering the same impact as industrial countries. The most dramatic aspect of globalisation in recent years has been the “China effect”. Compared to Latin American countries, many developing countries in East Asia have large reserves of cheap unskilled labour. The mass arrival of “made in China” products might have swept away the demand for unskilled labour. The mass arrival of “made in China” products might have swept away the demand for unskilled labour. The mass arrival of “made in China” products might have swept away the demand for unskilled labour. The mass arrival of “made in China” products might have swept away the demand for unskilled labour.

Other studies question that the action was really driven by trade flows. The international trade argument relies on a reallocation of production across sectors. However, studies focusing on sectors of activity, rather than on workers with different educational attainments, give little support to the reallocation hypothesis. Firstly, it is not at all clear that trade barriers were really protecting activities that rely on skilled labour. For instance, Currie and Harrison (1997) found that protection in Morocco was significantly higher in sectors with a higher share of unskilled workers, such as textiles and clothing. Furthermore, Hanson and Harrison (1999) showed that the reduction in tariff protection resulting from Mexico’s sweeping 1985 trade reform disproportionately affected low-skill industries. Secondly, across a dozen “important” developing countries, there is no clear trend in average wages across sectors, depending on whether they are export oriented or import competing (Ghose, 2000).

As in industrial countries, the focus has shifted to skill-biased technological change, rather than international trade. Berman and Machin (2000) used data from manufacturing activities in both industrial and developing countries. Instead of looking at the wages of export-oriented and import-substitution sectors, they considered the ratio of non-production to production wages. Non-production workers are probably more skilled than production workers. Therefore, this ratio can be interpreted as a skill premium. Over two decades, Berman and Machin found a slightly upward trend in the ratio for industrial countries and a dramatically
declining trend for developing countries, especially for middle-income countries. At first glance, this result is consistent with the basic international trade model. However, they also found that most of the changes occur within sectors, rather than across sectors. Furthermore, the same sectors within manufacturing that substituted towards skilled labour in middle-income countries in the 1980s had been doing so in the US since the 1960s. This pattern can be interpreted as evidence that skilled-biased technological change migrated from industrial to middle-income countries.

Another explanation relies on foreign direct investment and the resulting increase in the capital stock of developing countries. Capital and skilled labour are likely to be complements in production. The outsourcing of activities by multinationals from industrial countries is a major trend in recent years. The resulting flow of capital may be small from the perspective of industrial countries, but it represents a huge addition from the point of view of developing countries. This higher capital stock should in turn lead to a higher demand for skilled labour. Feenstra and Hanson (1997) analyse a panel of nine industries across Mexican states and conclude that outsourcing, under the form of maquiladoras, is associated with an increase in the share of non-production wages.

**Figure 5: Returns to education in transition economies**

![Graph showing the returns to education in transition economies](source)

*Source:* Constructed using data gathered by Rama (2001b).

A quasi-experiment on the effect of the overall globalisation package is the dramatic transition experienced by formerly planned economies in recent years. Countries in Eastern Europe and the former Soviet Union, as well as China and Vietnam, were suddenly confronted by the unleashing of market forces, openness to trade and foreign direct investment. The result was an increase in the returns to education, as
shown by figure 5. The observations in this figure are drawn from a variety of studies, using data sets with different coverage and relying on various econometric techniques. Consequently, the estimated returns may not be strictly comparable, not even within the same country. However, there is an upward trend in all the countries considered. In some of them, the implicit effect of the transition on wage inequality is remarkably large. For instance, if the estimates for the Czech Republic are taken literally, the wage gap between a college-educated person and a worker with primary education increased by roughly 60 percentage points in less than one decade.

Transition economies represent an upper bound. Their initial returns to education were abnormally low, due to the deliberate earnings compression pursued by socialist regimes. For most developing countries confronting globalisation, the initial wage inequality by skill is much higher. Still, a more systematic analysis of the relationship between openness indicators and returns to education confirms that globalisation does increase the wage gap between skilled and unskilled workers, at least in the short run. Figure 6 shows the effect of increased openness on the wage premium to an additional year of schooling. This effect is estimated using data from more than three hundred studies on the returns to education in developing countries. Again, those studies use data sets with different coverage and do not necessarily rely on the same econometric approach. However, as long as the nature of the data and approach are not affected by openness, this diversity should not bias the results.

Figure 6: Returns to education and globalisation

Source: Based on Rama (2001b).
The bars in Figure 6 indicate point estimates for this effect, based on regressions that allow for different returns by country and year. These regressions include as the key explanatory variable an openness indicator, lagged one year. For the bar on the left, this indicator is the ratio of trade to GDP; for the bar on the right, it is the ratio of foreign direct investment to GDP. The estimated effects are sizeable. An extra 1 percent of GDP in foreign direct investment raises the premium associated with an additional year of education by almost 0.8 percentage points. This is equivalent to increasing the wage gap between a college-educated person and a worker with primary education by roughly 10 percentage points. Moreover, the estimated effects are statistically significant and their size does not change much if other control variables are added to the regression, or a contemporary openness indicator is considered.

The impact of globalisation on the wage premium to education is likely to be temporary. Over time, it should be offset by an increase in the relative supply of educated workers. The high wage premium for college educated workers provides an incentive to seek additional education. As a result, the relationship between globalisation and increased returns to skill should become weaker, or even vanish, in the longer run.

The impact of globalisation on the gender gap in earnings, on the other hand, could be more durable. This gap can be measured as the difference in earnings between men and women that cannot be explained by their differences in educational attainment or work experience. In Vietnam, at the beginning of the reform process, this gap was close to 39 percent in the private sector and 29 percent in state-owned enterprises. Five years later, in 1997-98, it had shrunk to 26 percent and 19 percent respectively (Rama, 2001a). A similar change was found in Mexico, in the context of trade liberalisation. Artecona and Cunningham (2001) showed that the gender gap in earnings declined more in sectors that were more exposed to foreign competition.

This evidence is admittedly scattered. It is, however, consistent with a non-competitive model of the labour market, where employers have some bargaining power to set wages and can therefore discriminate against women. Globalisation, and the reform efforts associated with it, increases competition in product markets. This additional competitive pressure could reduce the scope for employers to set wages and discriminate against women.

4. JOB DESTRUCTION AND JOB CREATION

Looking at the average wage, or even at wage distribution, is not enough to understand how globalisation can affect individual workers. Specific groups could experience large gains or losses due to globalisation. Yet if these groups are small, or if their movements up and down the ladder cancel each other, the impact on the average wage or the wage distribution may not be visible. The more substantial the churning effects, the more likely that globalisation will be resisted by the potential
losers. Job creation and job destruction are important mechanisms through which churning may occur. However, the very nature of some continuing jobs can also change in the process. This is what happens when a worker ceases to be covered by a collective bargaining agreement, or when a permanent worker who enjoys all the perks and benefits extended by formal labour regulations is replaced by a temporary worker with limited rights.

A series of case studies on the effects of trade liberalisation shows a considerable dispersion of the net impact on employment. In some countries, net job losses were quite minimal. In Morocco, for example, employment in the average private sector manufacturing firm was basically unaffected by trade liberalisation (Currie and Harrison, 1997). The shift in labour demand was modest in Mexico as well (Revenga, 1997). However in Uruguay, in a period in which trade union activities were banned, the decline was substantial. During that period, reducing the protection rate within a sector by 1 per cent led of an employment reduction between 0.4 and 0.5 per cent within the same year. The employment effect became much smaller when trade union activities were allowed (Rama, 1994).

Small declines in employment may hide substantial job churning however. The contrast between studies at the industry level and at the firm level is revealing in this respect. Seddon and Wacziarg (2001) used industry-level data to examine the impact of trade liberalisation episodes on movements of labour across sectors. Their study found some labour reallocation between narrowly defined manufacturing activities. However the estimated effects were statistically insignificant and small in magnitude. On the other hand, Levinsohn (1999) used firm-level data to examine the pattern of job creation and job destruction in Chile during trade liberalisation. Whereas net employment in manufacturing fell by about 8 per cent, in all years in this period about a quarter of all workers changed jobs.

Globalisation also affected the nature of jobs in formerly protected sectors. In Morocco, there were significant employment losses in specific groups of firms, which started to rely more on low-pay, temporary workers. The share of temporary employment in manufacturing rose by nearly 20 percentage points between 1984 and 1990. In Mexico, trade reform reduced the rents available to be captured by firms and workers. As a result, an average tariff reduction of 20 percentage points led to an implied wage reduction of more than 5 per cent. In Uruguay, trade liberalisation was associated with lower wages in the period when trade unions were not active, despite the considerable reduction in employment. In the period with active unions, the membership rate was strongly correlated with tariff barriers and concentration at the industry level. This correlation suggests that workers in protected sectors enjoy higher wages and better working conditions than their counterparts in sectors exposed to foreign competition.

Overall, these studies show that there was pervasive rent sharing between the protected enterprises and their workers. The removal of trade barriers makes workers lose those rents, either because they lose their jobs altogether, or because the rent
attached to their jobs becomes smaller. This interpretation is consistent with the one offered for the effect of globalisation on the gender gap in earnings. In both cases, increased competition in product markets appears to reduce the size of labour market rents enjoyed by either employers or employees. On the other hand, there is no strong evidence to support the claim that labour demand has become more elastic as a result of globalisation (Chinoy et al., 1998; Maloney and Fajnzylber, 2000).

Another source of job destruction has been the downsizing of state-owned enterprises and government agencies. The most dramatic retrenchment episodes took place in transition economies, where millions of workers needed to be reallocated to the private sector. However all regions in the world have had their dose of downsizing in recent years (Haltiwanger and Singh, 1999; Kikeri, 1997). In some cases, up to a half of the workforce in state-owned enterprises needs to be considered redundant, if those enterprises are to be run as private firms (Belser and Rama, 2001). It could be argued that public sector downsizing is not directly connected to globalisation, but the two are not independent either. Countries that remain isolated from the outside world can keep their state sectors untouched for much longer.

Studies following public sector workers after retrenchment, or comparing their earnings and benefits to those of similar private sector workers, reveal a consistent pattern of losses from job separation (Rama, 1999). Other things equal, the decline in earnings and benefits is smaller for more educated workers and larger for those with more seniority in the public sector. However, the total loss may not be as large for the latter, as they usually have fewer years of work before retirement. Studies focused on welfare, rather than just earnings and benefits, also show larger losses for workers with more dependents. Finally, women can also lose more than men. They are not necessarily more likely to be targeted by downsizing programmes, but they are more likely to experience a large drop in earnings. The gender gap in earnings tends to be smaller in the public sector than out of it, implying a bigger loss, in relative terms, for separated women. Moreover, the public sector usually offers benefits that are highly valued by women, such as maternity leave, flexibility of hours and day care facilities. These benefits are more rare in the private sector and generally unavailable in the informal sector, where most of the new jobs taken by separated workers are. Not surprisingly, women are more likely than men to withdraw from the labour force after downsizing (Rama and MacIsaac, 1999).

Globalisation has also led to substantial job creation, however. The most visible part of this creation is associated with foreign direct investment and, particularly, with export-processing zones. The latter are often defined as fenced-in industrial estates specialising in manufacturing for exports that offer free-trade conditions and a liberal regulatory environment. However this definition is too restrictive. In countries like China or Mauritius, firms are not geographically constrained in industrial estates. In others, they are allowed to sell part of their output in the domestic market (Madani, 1999). In theory, export-processing zones represent a sub-optimal mechanism to integrate a country with world markets, the optimum being to
offer free-trade conditions and a liberal regulatory environment across the board. In some countries, such as Sri Lanka, social and political constraints may prevent the complete removal of barriers and regulations in sectors with powerful vested interests. In this case, export-processing zones can be seen as a way to reform “at the margin”. In other countries, like China, special zones have been a way to experiment market-oriented reforms.

Regardless of their theoretical merits, export-processing zones have been a powerful engine of employment generation. Figure 7 reports the share of the total labour force employed in these zones in selected countries during the 1990s. The case of Mauritius is outstanding. However, the share is considerable in several of the other countries as well, especially when taking into account that agricultural activities and the informal sector still employ a considerable fraction of the labour force.

Figure 7: Employment in export processing zones

On the other hand, jobs in the export-processing zones are not as good as the “privileged” jobs in protected activities or in the public sector. One of the features of these zones is their flexibility with labour laws. In some countries, the flexibility is
explicit. For instance, prior to 1993, the Dominican Republic law did not impose the minimum wage on export-processing zones. In other countries, the zones are not excluded from labour laws, but the latter are not enforced either. Lax governmental supervision and opposition to labour unionisation and union activities are common. As a result, jobs in export-processing zones are less secure than formal sector jobs out of them. As regards wages and working conditions, they vary substantially depending on the size, nationality and corporate policy of the firm, the type of industrial production, labour market conditions and the country’s institutions and regulations.

Most of the jobs in export-processing zones are held by women. In the Caribbean zones, approximately 80 per cent of the workforce is female, and the percentage is almost as high in the Philippines. This female bias is especially strong in garment production. Several reasons have been advanced to explain why women, many young and single, are sought after as prospective employees. Women are said to be more diligent and have more dexterity than men. Also, the fact that most of them marry and leave after a few years implies that they tend not to get involved with trade unions. Last but not least, women tend to be paid less than men. Madani concludes that, despite their lower pay, women might be the unintended beneficiaries from the formation of export-processing zones. Many would have remained fully or partially employed in the informal sector, or stayed at home, were it not for them.

The pattern is similar in countries that have not relied massively on export-processing zones, but where exporting firms have tapped local labour markets, attracting workers from the surrounding villages. Industries such as textiles and electronics have massively hired young, literate, largely single women, who frequently ended up earning more than in traditional sectors, such as agriculture or cottage industries. This female bias has been observed even out of the wage sector. Evidence from Ghana and Uganda reveals that women had substantial economic mobility in response to economic reforms. In these two countries, rural women became increasingly engaged in non-farm employment activities, moving into the non-farm sector at faster rates than men (World Bank, 2001).

To the extent that globalisation does translate into significant job creation in developing countries, the potential impact on poverty can be dramatic. However, this impact depends significantly on where the job creation occurs. In China, much of the impetus for the rapid economic growth during the 1980s came from a tremendous expansion of rural township and village enterprise activities. These firms often emerged out of the community level structures, which had been in place prior to the introduction of the household responsibility system in agriculture in the late 1970s, and typically became involved in labour-intensive export oriented manufacturing activities (Byrd and Lin, 1990). The inroads into rural poverty which were achieved in China during this period were nothing short of remarkable (World Bank, 2000b). In other parts of the developing world a similarly strong negative relationship between poverty and the non-farm sector has been observed. Even where non-farm
employment opportunities accrue primarily to the relatively educated and skilled (and thus non-poor), benefits to the poor are often still discernable. This is due to the relationship between the wage rates earned by agricultural labourers in rural areas, who are generally highly represented among the poor, and the tightening of rural labour markets which generally accompanies an expanding non-farm sector (Lanjouw and Lanjouw, 2000).

On the other hand, there is a legitimate concern that participation in world markets may be associated with an increase in child labour. The latter could have a detrimental effect on child welfare, both in the short term and in the longer term, though reduced schooling. Policy reforms that promote labour-intensive production could therefore be a mixed blessing for the poor. For example, a recent study of child labour in a city in western India concluded that “the prevalence and absolute expansion of child labour in a period and region of relatively high growth of aggregate output indicates that the nature of economic growth is flawed” (Swaminathan, 1998, p. 1526). The argument merits closer scrutiny. An important issue is whether sectors exposed to international competition tend to be more intensive in child labour. Unfortunately, the evidence in this respect is scattered.

According to statistics assembled by the International Labour Office, about 70 per cent of the children who work are employed as unpaid family helpers in rural areas (Ashagrie, 1997). Around 5 per cent of all child workers could actually be employed in export industries. A well-known example is the carpet industry in Uttar Pradesh. An International Labour Office survey of carpet-weaving enterprises found that a quarter of the workers were less than 14 years old. Children and adults perform the same job in these enterprises, with roughly the same productivity. However children workers have lower wages. Given how competitive the industry is, some argue that small loom owners would not be able to absorb the decrease in profits, were child labour banned. Garment manufacturing in Bangladesh was another notorious example. However, enterprises stopped employing children under 14 years of age due to a consumer boycott in industrial countries. It is through the sex industry that globalisation could have its most adverse impact on the children of developing countries. Lower travel costs and better information networks may be associated with a growth in sexual tourism, including paedophilia. The children affected may only represent a tiny fraction of all the children who work. However the implications for their wellbeing are dramatic enough to warrant swift public action.

5. UNEMPLOYMENT

While globalisation prompts both job destruction and job creation, the timing of these two processes might not be synchronised. During periods of trade liberalisation, and more generally of economic reform, job destruction rates can be expected to proceed at a much faster pace than job creation. Globalisation could therefore be associated with higher unemployment rates. Moreover, exposure to international markets could amplify macroeconomic fluctuations. Terms-of-trade
volatility and speculative capital flows could lead to booms and busts, increasing the variability of unemployment rates. Even if the average unemployment rate remained unchanged over the business cycle, job turnover could increase, and with it the feeling of economic insecurity.

Before addressing the impact of globalisation on unemployment, it is important to emphasise that the very concept of unemployment is somewhat ambiguous in many developing countries. According to the standard definition, an unemployed person is someone who would like to work at the prevailing wage rate, and is actively searching a job, but cannot find one. This definition is problematic in countries where the salaried relationship is not prevalent and employment in household enterprises and farms is common. Assessing the willingness to work becomes difficult in this context. Minor changes to the questionnaire of the survey instrument used to measure unemployment may dramatically affect the results. Thus, in Jamaica the “unemployment rate” is roughly twice as high as the so-called “jobless rate”, the difference being due to allegedly discouraged job seekers. Measuring employment is difficult as well. For instance, it could be argued that someone spending a few hours a week as a street vendor, or helping in a farm or a household enterprise, is not really employed.

This ambiguity also has implications when it comes to understanding the determinants of unemployment. In many developing countries, a large portion of the unemployed is made of educated, middle-class young adults who have not worked before. Because their families can afford a protracted job search, these young adults can wait for a “privileged” job opening in the salaried, formal sector, discarding the available alternatives in the informal sector.

Several studies have documented the importance of the gap between “privileged” jobs and other jobs as a determinant of unemployment in developing countries. For Sri Lanka, Dickens and Lang (1995) were among the first to question the hypothesis that education was the main reason for unemployment. Controlling for sex, sector and age, they showed that there was no relationship between education and unemployment for urban youth and only a weak relationship for rural youth. Even the latter relationship is brought into doubt when accounting for unemployment duration. Typical unemployment spells last four years or more and duration is not related to education. Dickens and Lang concluded that more educated youth had higher unemployment rates simply because they have left school more recently. For Egypt, Assaad (1997) examined the combined impact of the employment guarantee for graduates and public sector compensation policies on unemployment rates. These policies encouraged queuing for government jobs, contributed to high graduate unemployment rates and reduced the employment of graduates in the private sector. Despite substantial wage erosion in the public sector in recent years, government wages, when appropriately corrected for worker heterogeneity, were on a par with, or higher than, private sector wages, especially for graduates.
To the extent that globalisation erodes labour market rents, the incentive to wait for “privileged” jobs, rather than taking one readily available, could be reduced. However, this might be a long-term effect. In the short term, there is evidence that unemployment can go up, some times substantially.

Figure 8 reports the unemployment rates of four successful globalisers during the first two decades of their reform process. The countries are Chile, Mauritius, Poland and Sri Lanka. Each of them can be considered as a model in its own region. Needless to say, economic policies were not always ideal in all of them. Chile had a failed experience of exchange rate based stabilisation, leading to a massive financial crisis. Mauritius relied on an export-processing zone regime that is not, theoretically, the most efficient way to integrate with the rest of the world. Poland and Sri Lanka maintained their protection of bloated and inefficient industries and state-owned enterprises. Still, on average, the economic management of these countries is probably close to the best that can realistically be expected.

**Figure 8: Unemployment rates in successful globalisers**

All four successful globalisers have in common a long period of high unemployment rates after the launching of the economic reforms. The precise year chosen to draw figure 8 is, admittedly, subject to controversy. For Chile and Poland, year one in the figure is the end of the socialist regime, even if many important reforms happened subsequently. For Sri Lanka, year one is 1977, when a large trade liberalisation process was launched. For Mauritius, it is 1970, when the export-processing zone regime was introduced. Other dates would be defensible as well. When the initial

*Source: Constructed data gathered by Rama and Artecona (2000).*
year of the reforms is modified, it becomes unclear whether globalisation actually led to higher unemployment rates. However, the conclusion that high unemployment rates failed to decline for a long time seems robust.

Two developing regions are missing in figure 8, despite the fact that they both have successful globalisers in their ranks. East Asia and the Pacific is the region with the best record in this respect. However in all its successful globalisers, unemployment rates remained very low for decades, until the crisis of the late 1990s. The Middle East and North Africa region, on the other hand, does not include many success stories. While Tunisia is one of them, a high and stable unemployment rate is one of the few weak points in its otherwise remarkable performance. However, the case of Tunisia is more in accordance with figure 8 than its stubbornly high unemployment rate suggests. This is because the survey instruments that were used to measure unemployment over the last few decades did not use comparable questions to assess the willingness to work. An assessment of comparable estimates actually reveals a steady, if slow, decline in the unemployment rate since the 1980s (Rama, 1998).

In the long run, open economies do not appear to have higher unemployment rates, as shown by figure 9. If anything, their unemployment rates are lower. The comparability issues raised at the beginning of this section could cast doubts on the interpretation of this figure. However to the extent that country- and period-specific biases are independent from the degree of openness of the economy, the pattern described by the figure should be basically correct. This pattern is one of high dispersion of unemployment rates in more closed economies, and convergence towards a relatively narrow range in more open economies.

![Figure 9: Unemployment Rates and Openness to Trade](image)

Source: Average unemployment rates over five-year periods are from Rama and Artecona (2000). Data on the trade-to-GDP ratio are from the World Bank.
Other studies reach a similar conclusion. In Latin America, during two decades of increased exposure to foreign trade and international capital movements, there was only a mild upward trend in unemployment rates. The increase was dramatic in a few countries, such as Argentina, Colombia or Paraguay. The median rate, however, grew by only 1 percentage point (World Bank, 2000a). This relative stability is in contrast with the popular perception, as reflected in opinion polls. Risk of unemployment ranks as one of the main concerns voiced by those surveyed, in most of the region. Another interesting puzzle is that many of those who became unemployed in recent years used to work in the informal sector of the economy and, therefore, were not directly exposed to import competition or exchange rate fluctuations (Arango and Maloney, 2000).

6. HOW TO MITIGATE THE COSTS

As globalisation can create losers, and not just winners, it is important to identify what, if anything, can be done to mitigate the impact of economic reforms aimed at integrating the economy more closely with the rest of the world. A large array of government interventions has been tried in the developing world and the lessons learned in one country could prove useful in others. Some of these interventions are intended to help workers cope with job loss. Others could be used to limit the negative effects of globalisation on specific groups of workers and households. These negative effects could include the potential decline in the earnings of unskilled workers, the reliance on child labour in export-oriented industries and the increased volatility of employment and earnings potentially associated with terms-of-trade fluctuations and short-term capital movements. Even if these negative effects do not materialise in the end, preparedness would be key to build support for economic reforms.

The most effective ways to mitigate the adverse effects of globalisation are probably out of the labour market. If exposure to international trade and foreign direct investment increases the returns to education, thus widening the earnings gap between skilled and unskilled workers, an effective education policy should be a priority. Higher and more evenly distributed levels of schooling would be key to ensuring that the gains from globalisation are widespread. If international capital flows and the resulting macroeconomic fluctuations may lead to a substantial decline in the labour share of income, sound fiscal and financial policies should be a priority. Minimising the risk that the country will default on its obligations, and that a banking crisis will occur, would help avoid panic and herd behaviour by foreign investors.

However, labour market policies are needed too, especially to mitigate the impact of job loss. These policies can be classified into two groups: one-time interventions and permanent programmes. One-time interventions have been used in industrial countries to process the restructuring of declining industries, such as steel mills or
shipyards. In developing countries, they have been common in the context of public sector downsizing. Offering compensation and assistance to those bound to lose their jobs has been a way to defuse resistance to privatisation, trade liberalisation or market deregulation in industries where insiders are vocal and powerful. Compensation of this sort can be criticised on the grounds that public sector workers are seldom poor and tend not to fall in poverty in large numbers, even long after job separation. Using scarce budget resources on them seems at odds with poverty alleviation efforts. The alternative to compensation, however, could simply be lack of restructuring.

If they were perfectly designed, compensation packages for redundant workers would turn them indifferent to job loss, thus making economic reforms optimal in the sense of Pareto. However, experience suggests that the design of these packages is far from ideal. Examples of over-compensation and under-compensation abound, sometimes within the same downsizing programme. Packages are often based on precedents, such as the number of years of salary, or of months of salary per year of service, offered in other countries or sectors. A more sensible basis to assess the amount of compensation needed to achieve indifference is the analysis of microeconomic data on the earnings redundant workers could hope to make after separation. This analysis is feasible in developing countries and several methods can be used to compute the loss in benefits as well (Assaad, 1999; Chong and Rama, 2001a).

A downsizing programme can be seen as an investment operation, with compensation packages and other related expenditures representing the upfront spending, benefits being reaped over the years. Some important costs and benefits, however, can be hidden. For instance, some analyses omit to consider among the costs of downsizing the unfunded liabilities created by early retirement programmes. More importantly, the distinction between financial returns and economic returns is often ignored. The difference between the two can be substantial, as shown by a case study on the Algerian retrenchment programme (Ruppert, 1999). Financial returns compare costs and savings from the budget perspective, whereas economic returns measure the impact on aggregate output. In particular, economic returns take into account the employment alternatives of retrenched workers. Economic returns can be low when there are limited employment alternatives, as in the one-company town setting (Rama and Scott, 1999). On the other hand, they could be very high when restructuring activities such as ports or telecommunications, whose inefficiency is a hindrance to other sectors.

As regards permanent programmes to help workers cope with job loss, the most obvious example is unemployment insurance. In fact, there are a growing number of voices calling for the set up of this programme in middle-income developing countries. This recommendation may surprise at a time when unemployment insurance is under fire in industrial countries, due to its adverse incentive effects. Several studies have shown that long-lasting benefits encourage the unemployed to stay out of a job. For this reason, some suggest to adopt a mandatory savings
account programme instead. This programme can be part of the old age pension system, especially when pension benefits depend on past contributions. In this case, workers can add any unused savings to their old age pension account, and “borrow” from their old age pension entitlement in the event of job loss.

In the case of developing countries, however, both the adverse incentive effects of unemployment insurance and the merits of individual savings accounts might be overstated. When the informal sector is large, it is very difficult to monitor whether the beneficiaries are really unemployed. Therefore, unemployment benefits create an incentive to stay out of the formal sector while benefits last, not to stay out of a job. As regards mandatory savings accounts, they do not involve any risk pooling, only a spreading of the earnings loss from unemployment over the life cycle. If workers cannot “borrow” from their old age pension account and they do become unemployed when they are still young, they might not have enough resources to cope with job loss (unless the mandatory savings rate is very high). On the other hand, if they can “borrow” substantially, they face an incentive to become unemployed, get as indebted as possible and withdraw permanently from the formal sector to avoid repaying their debt.

Another potential shortcoming of unemployment insurance and mandatory savings accounts programmes is that they may not reach the poorest workers. Table 1 summarises the findings of a comparative study on income support programmes for the unemployed in Latin America (World Bank, 2000a). This region has experience with a variety of programmes and can be seen as a laboratory by other middle-income countries. Table 1 shows that, among the workers covered by unemployment insurance in Brazil and by mandatory savings accounts in Colombia, very few belong to the population group with the lowest earnings or consumption. These two income support programmes are well suited to workers in protected industries, who are usually enrolled with social security. However the evidence discussed in the previous section indicates that many, among those who lose their jobs, come from the informal sector. Unemployment insurance and mandatory savings accounts are not the appropriate programmes to assist them.
Table 1: Income support programmes for the unemployed

<table>
<thead>
<tr>
<th>Programme &amp; country</th>
<th>Workers legally covered by the programme</th>
<th>Spending per beneficiary (US$)</th>
<th>Cost of programme falls on:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public works in Argentina</td>
<td>In principle all</td>
<td>3,100</td>
<td>Taxpayers</td>
</tr>
<tr>
<td>Training in Mexico</td>
<td>Eligible on age, educ.</td>
<td>393</td>
<td>Taxpayers</td>
</tr>
<tr>
<td>Severance pay in Peru</td>
<td>Salaried, with given seniority</td>
<td>760</td>
<td>Workers &amp; employers</td>
</tr>
<tr>
<td>Unemployment insurance in Brazil</td>
<td>Salaried in social sec.</td>
<td>664</td>
<td>Workers &amp; employers</td>
</tr>
<tr>
<td>Individual accounts in Colombia</td>
<td>Salaried in social sec.</td>
<td>Not available</td>
<td>Workers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programme &amp; country</th>
<th>Share of beneficiaries by earnings or consumption (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Poorest</td>
</tr>
<tr>
<td>Public works in Argentina</td>
<td>78.6</td>
</tr>
<tr>
<td>Training in Mexico</td>
<td>69.9</td>
</tr>
<tr>
<td>Severance pay in Peru</td>
<td>4.7</td>
</tr>
<tr>
<td>Unemployment insurance in Brazil</td>
<td>10.6</td>
</tr>
<tr>
<td>Individual accounts in Colombia</td>
<td>0</td>
</tr>
</tbody>
</table>

Notes: Constructed using data from World Bank (2000a).

At the other end of the spectrum, there are income support programmes for the unemployed that do reach poor workers. Public works, like the Maharastra employment guarantee scheme in India and the Trabajar programme in Argentina, are among them (Ravallion, Datt and Chaudhuri, 1993, Datt and Ravallion, 1994, Jalan and Ravallion, 1999). Some training programmes for the unemployed, like Probecat in Mexico, also fall in this category (Wodon and Minowa, 2001). One common feature of these programmes is that participants do not need to be enrolled in any social security programme. Another important feature is the self-selection of their participants. Well-designed public works programmes pay less than the average...
labour earnings of unskilled workers who do have a job. As a result, only those really in need are willing to take them. The income transfer offered by *Probecat* is low as well.

The main difference between these programmes is the nature of the activities the beneficiaries have to undertake. In one case, they are requested to do physically demanding, full-time work. In the other, they have to take full-time training. The actual productivity of these activities is subject to debate and the non-labour component of their cost can differ substantially. However both kinds of programmes seem well geared to help informal sector workers cope with job loss. As table 1 shows, most of their beneficiaries belong to the poorest population groups.

In between these two extremes, mandatory severance pay is the most common income support programme available to the unemployed in developing countries. In this programme, an employer is liable to pay a certain amount of money to a worker dismissed due to no fault of his or her own. The amount is usually related to the last salary of the worker and his or her seniority in the job by a formula, typically involving a minimum seniority and a maximum payment. This programme does not require the involvement of a social security agency. Compliance is complaint-driven, which often overburdens labour inspectors, but is probably cheaper than running a fully blown unemployment insurance programme. Mandatory severance pay makes the employer assume the role of an insurer. In the event that the firm goes bankrupt, workers usually have priority over other creditors to get their due.

One potential problem with mandatory severance pay is that it may discourage hiring. This programme raises separation costs in bad times, which can make employers reluctant to recruit in good times. In its extreme form, mandatory severance pay becomes equivalent to lifetime job security. In the cases of India and Zimbabwe, it has been claimed that lifetime job security reduces labour demand in the formal sector (Fallon and Lucas, 1991). In a similar vein, a cross-country study by Heckman and Pagés (2000) shows a link between high separation costs and low employment-to-population ratios, at least for young workers. However, this study reports much higher separation costs in Latin America than in Western Europe, which is to some extent surprising. On the other hand, a study focusing on the change in earnings experienced by Peruvian workers as they move from jobs covered by severance pay to non-covered jobs, or vice versa, suggests that workers may “pay” for coverage through lower wages (MacIsaac and Rama, 2001). If part of the burden falls on workers, the adverse employment effect could be alleviated, or even offset. Table 1 shows that mandatory severance pay, much the same as unemployment insurance, benefits mainly “middle-class” workers.

Finally, active labour market programmes are often set up to help unemployed workers find new jobs. Training, counselling, placement services and assistance in job search are among the most common examples. While active labour market programmes of this sort are quite popular with governments, trade unions and the general public, their payoffs seems limited. For instance, Mexico’s *Probecat* appears
to be effective at providing income support to the unemployed, but not at improving their earnings ability (Wodon and Minowa, 2000). The effectiveness of these programmes is difficult to assess, as participants are self-selected. Workers who are more eager to succeed, or more able to learn, are more likely to participate. It is therefore hard to disentangle the effects of the programme from those of the ability of its participants. In any event, the effects uncovered appear to be generally modest, and concentrated in relatively narrow subsets of participants (Fretwell et al., 1999; Gill et al., 2000).

For some workers, the negative effect of globalisation takes the form of a drop in earnings, rather than a job loss. The minimum wage is a potential way to circumscribe this drop. However, the actual impact of this intervention is often exaggerated. To begin with, minimum wages are not directly relevant for the self-employed and those working in household industries. In many developing countries, this group represents a majority of the labour force, and it includes most of the poor. As regards salaried workers, many among those who may suffer from trade liberalisation and deregulation earn substantially more than the minimum wage. The latter might thus be ineffective in their case.

Another important shortcoming of minimum wages in developing countries is the limited ability of governments to enforce them. Several case studies show that compliance is partial at best, even in countries with a relatively high administrative capacity (Gindling and Terrell, 1995, and Maloney et al., 2001). As a result, attempts to raise labour earnings through minimum wage hikes, as in Indonesia during the early 1990s, have been quite ineffective (Rama, 2001c). The flip side of weak enforcement is that the disemployment effects of minimum wages have been modest too. In Mexico, the minimum wage is so low compared to the average wage of formal sector workers that its variation has no noticeable impact on employment. In Colombia, where minimum wages are much higher, the estimated disemployment effects are about one tenth of those found in industrial countries (Bell, 1997).

The mere possibility that globalisation increases the extent of child labour warrants a careful discussion of the policy alternatives. However, to assess what could be done, it is first necessary to understand why parents put their children to work. The natural presumption in this respect is that parents love their children. If they put them to work, it is probably because they have no better choice. Under these circumstances, it is not clear that suppressing child labour (assuming it could be done) would improve the welfare of the children and their families. A body of theoretical research has tried to identify the circumstances under which child labour is “inefficient”, meaning that loving parents fail to do what is better for their children, given the resources they have (Basu and Van, 1998; and Baland and Robinson, 2000). Inefficiency arises when parents are constrained in credit markets, so that they cannot afford the education of their children, no matter how profitable.

Empirical research gives some support to this view. Indicators of wealth, at the household level, are among the main determinants of child labour. For instance,
Grootaert and Patrinos (1999) study the relationship between child labour and household characteristics in four countries: Côte d’Ivoire, Colombia, Bolivia and the Philippines. The results are remarkably consistent across them, despite their vastly different social and cultural characteristics. In a similar vein, Jacoby and Skoufias (1997) examine how school attendance responds to seasonal fluctuations in the income of agrarian households using panel data from rural India. Their main finding is that seasonal fluctuations in school attendance are a form of self-insurance. It would follow that the first-best response to child labour would be to correct the imperfections of credit markets (Cameron and Workswick, 1998; Ilahi, 1999). However, this may not be feasible.

An alternative is to ban child labour. This is a viable policy option for relatively small and well-identified sectors. In particular, it should be forcefully pursued in the sex industry. The effectiveness of a ban across all sectors, however, is more dubious. The problem is the limited enforcement capacity of governments in developing countries. In practice, a ban could only be implemented on formal sector firms, for example, those directly selling abroad. This may result in children still working, but in the informal sector, with lower wages and possibly worse working conditions. A partial ban could be welfare improving, but it could also backfire (Brown et al., 1998). Admittedly, child labour bans were adopted in most of Western Europe during the nineteenth century and developing countries could be inspired to follow the same path. However, other factors, such as rising incomes and technological change, might have been more important than the bans in reducing child labour (Nardinelli, 1980; Heywood, 1988).

From an economic point of view, it would be preferable to modify the incentives faced by households. Some have considered raising the earnings of adult workers, through minimum wages (Basu, 1999). The limited effectiveness of minimum wages in developing countries, discussed above, makes this an impractical alternative anyway. Most would prefer a cash stipend or a grant to poor families, conditional on school attendance. Programmes of this sort are already in place in several countries. They include the Food for Education programme in Bangladesh, Bolsa Escola in Brazil and Progresa in Mexico. Similar programmes are being set up on a pilot basis in Argentina, Colombia, Jamaica and Nicaragua, among others.

While subsidies could have a positive impact on school attendance, they may fail to eradicate child labour. In India, it has been argued that the major deterrent for school participation is not the opportunity cost of not working, but the low quality of the public education system. Duraisamy (2000) reports that the majority of children not enrolled in school are actually not working. An evaluation of the Food for Education programme in Bangladesh shows that increased school enrollment did reduce child labour, although it also led to a considerable reduction in the children’s leisure time (Ravallion and Wodon, 2000). A similar conclusion was reached for the Progresa programme in Mexico.
Last but not least, specific labour market policies could also be considered as a way to offset the effects of increased economic volatility. Fiscal and financial policies alone may not be enough to cope with the impact of terms-of-trade fluctuations and short-term capital movements. The potentially wider business cycles associated with globalisation represent a form of uninsurable risk. Rodrik (1998) claims that bigger governments, and especially bigger public sector employment, can be used as a substitute for insurance. In support of his claim Rodrik shows that a positive correlation exists between an economy’s exposure to international trade and the size of its government. This correlation holds for most measures of government spending, in low- as well as high-income samples, and is robust to the inclusion of a wide range of controls. In Rodrik’s view, the explanation is that government spending plays a risk-reducing role in economies exposed to a significant amount of external risk. One piece of evidence in favour of this interpretation is that the relationship between openness and government spending is strongest when terms-of-trade risk is highest.

A similar correlation exists between government employment and openness (Rodrik, 1997). A large number of “secure” jobs in the public sector could thus be seen as a form of insurance against the external risk faced by the economy, especially when those who hold those jobs transfer resources to their extended families. This interpretation is to some extent problematic. While some public sector jobs might have been created with the deliberate goal of providing income security, other explanations are equally plausible. Preliminary work with an expanded version of the database used by Rodrik suggests that the political regime, income inequality and the degree of ethno-linguistic fractionalisation are good predictors of the share of the labour force employed by the public sector (Chong and Rama, 2001b). More importantly, a bloated public sector could have detrimental effects on economic performance.

7. THE ROLE OF THE INTERNATIONAL COMMUNITY

Should something be done to encourage, or even force, developing countries to adopt specific labour market policies in the context of globalisation? Many in the industrial world would answer this question by a resounding “yes”. The perception that long-time workers in protected industries or in the public sector lose their jobs, that the unskilled see their earnings fall, that children end up working in sweatshops and households face higher economic instability seems a strong enough justification for this affirmative answer. However the next, obvious question is why it is that developing countries fail to take the appropriate measures by themselves.

One possibility is that the governments of developing countries do not have a clear assessment of the costs and benefits of labour market policies. Uncertainty would not be surprising, given that is an ideologically charged issue, even in industrial countries. While mostly everybody agrees that government interventions in the labour market lead to a trade-off between efficiency and equity, some downplay the
efficiency costs while others claim that the equity gains are negligible. From this perspective, an important role of the international community would be to assist in the identification and evaluation of these costs and benefits. This is necessarily a long-term endeavour. For most labour market policies, the evidence is still very limited. Based on that evidence, however, the efficiency and equity implications of specific labour market policies can be substantially different.

On the efficiency side, a cross-country study of economic growth during periods of economic reform shows that some of the government interventions discussed in the previous section can lead to poor performance, while others are relatively benign (Forteza and Rama, 2001). This study compared output rates across countries with different degrees of labour market “rigidity”. The latter was measured based on an index that combines the level of minimum wages, the generosity of social security benefits, the membership of the labour movement, and the government share of the labour force. The comparison was run over four periods: long before (i.e. ten to four years before) the launching of major economic reforms: shortly before, shortly after and long after. The timing of reforms was identified based on the accumulated volume of World Bank lending for structural and sectoral adjustment programmes.

The results of this cross-country study are summarised in figure 10. The lines in this figure represent average growth rates for different groups of countries in the four phases of the reform process. The results are similar when controls for past performance and external shocks are taken into account. The figure suggests that labour market rigidity does not affect long-run performance, as the growth rates of all groups are almost identical long before the reforms. However countries with rigid labour markets have a much worse economic performance in the years preceding the launching of the reforms and a much slower recovery afterwards. Interestingly, this pattern is not driven by minimum wages or mandated benefits but rather by unionisation and, especially, by government employment.
These results are consistent with a “political” rather than “economic” interpretation of labour market rigidity. The fact that minimum wages and mandated benefits do not matter much suggests that the problem is not the lack of adjustment of labour costs. The regulatory framework promoted by the International Labour Organisation (ILO) has a limited impact on performance as well. If labour market “rigidity” is measured only by the number of ILO conventions ratified, there is no significant difference in performance across countries. This result holds even when excluding industrial countries from the sample.

Collective bargaining *per se* might not be to blame either. If anything, the union wage premium is smaller in developing countries than in industrial countries. It ranges from negligible in Senegal (Terrell and Svejnar, 1989) to small in Mexico (Panagides and Patrinos, 1994). It has been argued that South Africa is an exception, in the sense that the union wage premium could be extraordinarily high in that country (Mwabu and Schultz, 2000). However, this high premium is likely to reflect self-selection more than bargaining power. An in-depth analysis of South African labour market data suggests that the wage premium is roughly the same as in the US (Butcher and Rose, 2001). In fact, it is difficult to make the claim that collective bargaining is either “good” or “bad”. Whether the economic activities of trade unions are associated with a better or worse economic performance very much depends on the context they operate in (World Bank, 1995, Aidt and Tzannatos, 2001).
However, trade unions also play a political role, in the sense that they can influence government policy decisions. In developing countries, a large portion of the union membership is made of public sector employees. Workers in protected industries tend to be unionised as well. These two groups stand to lose from reforms such as trade liberalisation, market deregulation or privatisation of state-owned enterprises. The more powerful they are, the more likely that reforms will be delayed. Once they are adopted, it is likely that they will be implemented half-heartedly. Based on this political interpretation, figure 10 underscores the importance of dialogue with trade unions in the context of globalisation, and understanding their grievances. It also implies that the payoffs to the “compensation” of those who stand to lose from globalisation, for instance through severance pay packages, can be large.

On the benefits side, the same labour market interventions can be matched with indicators of inequality, such as the Gini index, or the income or consumption share of different population quintiles (Rama and Ravallion, 2001). The analysis controls for other determinants of inequality, such as educational attainment, civil liberties, financial development and many others. The results, summarised in Table 2, show that social protection policies, like those usually run by social security agencies, have a strong potential to reduce inequality. The regulatory framework promoted by the ILO appears to have a similar impact, which is not surprising given the high correlation between the number of conventions ratified and the share of GDP devoted to social security. Collective bargaining seems less effective at reducing inequality. Its impact is statistically significant only for the share of the second richest quintile of the population.
<table>
<thead>
<tr>
<th>Labour market indicator</th>
<th>Income or consumption they share by quintile</th>
<th>Gini index</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Poorest</td>
<td>2nd</td>
</tr>
<tr>
<td>ILO conventions ratified</td>
<td>0.30*</td>
<td>0.26*</td>
</tr>
<tr>
<td>Core ILO conventions ratified</td>
<td>0.03</td>
<td>0.01</td>
</tr>
<tr>
<td>Minimum wage (% of average)</td>
<td>-0.22</td>
<td>-0.21</td>
</tr>
<tr>
<td>S. sec. contribution (% of wage)</td>
<td>0.31</td>
<td>0.29</td>
</tr>
<tr>
<td>S. sec. revenue (% of GDP)</td>
<td>0.32*</td>
<td>0.33*</td>
</tr>
<tr>
<td>Days of paid maternity leave</td>
<td>0.22</td>
<td>0.18</td>
</tr>
<tr>
<td>Union membership rate (%)</td>
<td>0.14</td>
<td>0.14</td>
</tr>
<tr>
<td>Coverage of coll. Bargaining (%)</td>
<td>0.24</td>
<td>0.33</td>
</tr>
<tr>
<td>No. of strikes &amp; lock-outs</td>
<td>0.07</td>
<td>-0.05</td>
</tr>
<tr>
<td>General govt. (% of labour force)</td>
<td>0.13</td>
<td>0.14</td>
</tr>
<tr>
<td>Govt. wage (% of average wage)</td>
<td>0.08</td>
<td>0.06</td>
</tr>
</tbody>
</table>

Source: Based on work in progress by Rama and Ravallion (2001).

Note: The figures reported in the table are correlation coefficients between “unexplained” inequality indicators and labour market policies. Unexplained inequality is measured as the residual of a regression linking each inequality indicator with a large number of explanatory variables, none of which is directly related to the labour market. The number of observations varies from cell to cell depending on data availability. Significant correlation coefficients at the 10 per cent level are indicated by an asterisk.

All of the other labour market variables considered in Table 2 fail to reduce inequality significantly. Based on the size of the estimated correlation coefficients, the number of “core” ILO conventions ratified by a country is totally ineffective.
“Core” conventions refer to the abolition of forced labour, the effective elimination of child labour, non-discrimination in the workplace and freedom of association and the right to collective bargaining. Some of these conventions are decades old and have been ratified over the years by many countries, both industrial and developing. More recently, all 175 members of the International Labour Organisation endorsed core labour standards, as a result of their acceptance of the “Declaration on Fundamental Principles and Rights at Work”. As for other ILO conventions, whether “core” labour standards are enforced in practice is a different issue.

Taken together, these results suggest that pushing developing countries to adopt “core” labour standards, or higher minimum wages, or to expand public sector employment, may not do much to neutralise the impact of globalisation on workers. The costs in terms of economic would be limited in the case of “core” labour standards and minimum wages, but they could be considerable in the case of public sector employment. The benefits in terms of reduced inequality would be small, if not negligible. For the international community, a sounder approach is to promote the adoption of social protection programmes, like the compensation packages and income support programmes for the unemployed that were reviewed in the previous section. The efficiency costs of social protection programmes do not appear to be high. However, programmes of this sort have the potential to reduce inequality, hence offsetting the effects of globalisation on returns to education and job losses. If the main obstacle to the implementation of appropriate responses to globalisation is lack of information, the international community should play a more active role in the in the assessment, and adjustment, of the labour market interventions that are already in place in those countries.

A related issue is whether the international community should try to apply some sort of sanctions or “conditionality” clauses on the adoption of specific labour market policies, or the implementation of specific social protection programmes. Political economy considerations provide an argument in favour of conditionality. The households who are more likely to be negatively affected by globalisation may not be appropriately represented in developing countries. In particular, unskilled workers and those who have to put their children to work may have little say in policy decisions. This possibility is of course a call for more democracy. As long as the latter is imperfect, however, lack of proper representation provides a rationale for attempts by the international community to influence the economic policies of developing countries in favour of the most vulnerable workers and their families.

Many in industrial countries would like to use trade sanctions to force developing countries to comply with specific labour standards. One obvious argument against this approach is that it may open the door to hidden forms of protectionism, which could be more harmful to developing countries than the weakness of their labour market regulations (Brown et al., 1996, and Maskus, 1997). Not surprisingly, developing countries perceive the entwining of these social issues with trade policy as a threat. Moreover, linking trade sanctions and labour issues may lead to an erosion of the rules-based multilateral trading system (Anderson, 1997). Others have
proposed international agreements on core labour standards, with voluntary compliance (Golub, 1997; Moran, 2001). In fact, direct negotiations may not be needed for an efficient treatment of domestic labour standards within a trade agreement (Bagwell and Staiger, 1998).

Another argument against imposing trade sanctions, or using the leverage of loan conditionality, is related to the endogeneity of government interventions in the labour market. Both these interventions and product market distortions (e.g. tariff barriers) reflect the uneven political power of different population groups. In developing countries, employers and formal sector workers have more influence on government policies than workers in the informal sector or small farmers. Employers and formal sector workers have a common interest in raising protective barriers, at the expense of those in the informal sector and in agriculture. However, the interests of employers and formal sector workers are opposed regarding labour market interventions, which are a mechanism to distribute the rents from protection. These opposite interests may offset each other, leading to labour market interventions that are roughly second best (Rama and Tabellini, 1998).

The analytical framework just described implies that the international community should use its leverage to reduce trade barriers, but refrain from imposing sanctions or using loan conditionality to affect labour market interventions, in one way or another. Reducing trade barriers is in the interest of the population groups that are not appropriately represented in the policy making process. To the extent that labour market interventions are second best, however, attempts to modify them from outside could be welfare reducing. Moreover, the very endogeneity of economic policies implies that the pressure to reduce trade barriers should lead to a gradual adjustment of government interventions in the labour market.

On the other hand, it is important to recognise that there is more than just disguised protectionism in the proposals to use sanctions or conditionality to promote specific labour market policies. An analysis of support to a trade-linked child labour standard in the US revealed that districts where the population is more likely to be harmed by foreign competition were less supportive of this standard (Krueger, 1997). Calls for action by industrial countries to enforce core labour standards around the world reflect, quite often, a genuine concern for workers in developing countries. This concern can be used to promote market-based incentives, such as product labelling (Freeman, 1996). Market-based incentives rest on the fact that consumers in industrial countries are ready to pay a higher price for goods produced in compliance with labour standards. However, monitoring that they actually are adhered to is difficult, and requires an active involvement of the civil society (Sabel et al., 2000).

Genuine concern for the wellbeing of children in developing countries could also serve as a platform for a very active stance on paedophilia. As for product labelling, the sanction would apply directly to those in industrial countries who engage in unacceptable behaviour, not to the governments and populations of developing countries. In the case of paedophilia, the governments of industrial countries could
make their own citizens punishable for this crime, even if committed in the territory of a developing country. This threat could serve as a deterrent for one of the most hideous faces of globalisation.

8. CONCLUSION

This paper represents an attempt to provide a balanced view of the effects of globalisation on employment and wages in developing countries, and to derive the implications for public policy. This attempt is based on an analytical review of the literature, including several studies currently under way. Such a review is necessarily selective, implying that important pieces of evidence may have been omitted. The claims made by most of the pieces that are reviewed could later be challenged, based on new evidence. Furthermore, there are entire areas where research is missing altogether. For instance, the impact of globalisation on informality has been barely addressed in this review. With all these caveats in mind, the review attempted in this paper suggests that globalisation can be good for most workers, provided that the appropriate economic policies are in place. However, it may not be good for all workers, and its distributional implications should not be ignored.

A first conclusion emerging from this review is that wages grow faster in economies that do integrate with the rest of the world. Openness to trade can have a negative impact on wages in the short run, but it only takes a few years for this effect to change sign. The impact of foreign direct investment is highly positive even in the short run, highlighting the importance of a good investment climate. It follows that policies to integrate an economy with the rest of the world will be more beneficial to workers if they succeed in attracting investors from abroad. The main threat to workers comes from international capital movements and the financial crises they can prompt. These crises can lead to a durable decline in the labour share of income. If they can be avoided, the long-term wage gains from globalisation should more than offset the short-term losses, even assuming a very high time preference.

The benefits from globalisation are not evenly distributed across workers, however. There is no evidence of an increase in the dispersion of wages by occupation. This said, a variety of studies uncover an increase in the wage premium to skill, which contradicts the prediction of one of the most popular international trade models. Disentangling whether this effect is actually due to trade, or rather to technology, or foreign ownership, is difficult. If anything, foreign direct investment appears to have a stronger impact on the returns to education than openness to trade. To the extent that poor workers have a limited educational attainment, they would not be the main beneficiaries from globalisation. On the positive side, openness to trade seems associated with a narrowing of the gender gap in earnings.

Globalisation affects workers not only through wages, but also through employment. Trade liberalisation is associated with job losses in formerly protected sectors. It is
also associated with the replacement of permanent workers, who have a more privileged status, by temporary and casual workers, who enjoy fewer benefits. The loss of “privileged” jobs is especially dramatic in the context of public sector downsizing. While the latter is not directly connected to globalisation, the need to increase competitiveness often pushes governments to privatise state-owned enterprises, abolish legal monopolies in utilities and retrench redundant civil servants. Nevertheless, integration with world markets is also associated with substantial job creation, especially in export-oriented activities such as textile, garments or footwear. A large fraction of the newly created jobs is held by young women from rural areas. These jobs may not be as good as the “privileged” jobs lost in protected industries and the public sector. Yet for those young women they often represent an improvement over the alternatives. Whether integration with world markets is associated with an increase in child labour remains an open issue. Child labour is overwhelmingly the product of poverty, and most of it takes place in household farms and enterprises that are not directly affected by globalisation. However, some of its most notorious manifestations are in activities that cater to consumers from industrial countries, such as rug exports and sexual tourism.

Because job destruction proceeds at a faster pace than job creation, integration with the rest of the world may be accompanied by many years of high unemployment rates. This pattern has been observed even among successful globalisers that could be considered as “models” in their own regions. Overall, however, only a fraction of the unemployed in developing countries are out of a job due to globalisation. Queuing for “privileged” jobs, especially in the public sector, is common among the educated urban youth. Among those unemployed who are not seeking their first job, many used to work in the informal sector, which is not directly affected by exposure to world markets. Moreover, unemployment rates do not appear to be systematically higher in more open economies.

The most important economic policies to offset the negative effects of globalisation on workers do not operate directly through the labour market. If exposure to international trade and foreign direct investment increase the wage premium to skill, access to education for all should be a priority. If the financial crises prompted by international capital movements may lead to a durable decline in the labour share of income, good macroeconomic management and sound financial regulation are a must. Still, some specific labour market policies and programmes may be needed, especially to deal with job loss. Developing countries have experience with a variety of income support programmes for the unemployed, ranging from public works to mandatory severance pay to unemployment insurance. As they differ in coverage, cost, incentive effects and ability to smooth consumption, these programmes cannot be unambiguously ranked. However, some programme or combination of programmes may be suited to each developing country, depending on its characteristics. One-time compensation programmes can also be useful to cushion the impact of economic restructuring on specific groups of workers. On the other hand, minimum wages and active labour market policies do not appear to be highly effective in developing countries.
The international community has a role to play in promoting the adoption of appropriate policies to protect workers from the negative effects of globalisation. Regarding labour market policies, it can assist in the design of one-time compensation packages and more permanent income support programmes to mitigate the consequences of job loss. On the other hand, promoting “core” labour standards, higher minimum wages or bigger public sector employment may not do much to offset the impact of globalisation. In the case of public sector employment, it can lead to a poorer performance. Finally, there is no strong rationale for the international community to act through sanctions or conditionality. Trade sanctions, in particular, could indirectly penalise workers in developing countries. Modifying the incentives faced by producers and consumers in industrial countries may be a more promising approach. Because of its monitoring requirements, this approach requires a strong involvement of the civil society.
References


193