Coping with trade liberalisation adjustment

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Summary

With the prospect of further trade liberalisation, the question for developing and vulnerable countries of how best to manage the adjustment process consecutive to reform needs clearer answers. This paper discusses the process of adjustment for developing countries, highlighting three motives for policy intervention: equity, efficiency and political economy.

Because these motives for intervention will necessarily arise, and also because of their interplay - not necessarily negative as complementarities may arise - it is necessary to get maximum clarity about the policy objectives behind any adjustment policy. It is likely that the balance of equity, efficiency and political economy motives will be different in developing countries than in more developed ones, and vary across countries, thus calling for careful consideration of the context of each reform.

The simple analysis grid suggested in this paper is discussed over the specific dimension of developing countries' characteristics. Examples of what are considered desirable and less desirable policies are then discussed.

Keywords: adjustment; developing countries; trade policy; political economy; equity

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1) Introduction

The question of adjustment to trade liberalisation is not new, and yet we still have surprisingly few answers to the challenges it presents, in particular for developing countries.

The case seems now well established that non-discriminatory and multilateral trade liberalisation should provide welfare gains to most developing countries (exceptions of course apply, for instance because of negative terms of trade effects). The main challenge for policy makers and analysts is to better comprehend the process that leads from the removal of trade barriers to the realisation of these gains. Trade liberalisation changes relative prices and thus generates a reallocation of production factors across the economy. Some industries contract, others grow.

Two main facts arise from the reallocation process. First, trade liberalisation unavoidably creates gainers and losers. Second, making the most of the gains arising from liberalisation will require an adjustment process in the economy's production. Moving from one sector to another is costly, and there has been some argument that these adjustment costs can outweigh the gains from liberalisation, at least in the short term. A third remark also applies: making the most of the *dynamic* gains from trade (such as economies of scale or technology transfer) also requires some specific form of adjustment process.

Studies of trade liberalisation have tended to set aside issues related to adjustment by focussing on the question of whether trade liberalisation would bring net costs or gains in the long term at country level. On the question of within-country effects, most of the literature has focussed on the impact on relative wages though price changes triggered by trade liberalisation on unskilled workers, and whether they can be adversely affected by liberalisation. This focus is shared in developed and developing countries alike, albeit probably for different reasons. Empirical studies have mostly looked at developed countries, at least until recently. This is probably because of availability of data, and reflects the fact that most of international trade occurs among rich countries.

These investigations and most of the debate on trade liberalisation thus concentrates on the *net* losses arising from trade liberalisation either at the country level, or for some specific interest groups. However, studying the impact of trade liberalisation is not only about this question of net impact of trade liberalisation on some, but also about how to manage the *path* of adjustment, and therefore *gross* effects, hopefully leading to not only negative, but also *positive* outcomes. For instance, Roberts & Tybout (1997) have established that export expansion consecutive to liberalisation takes place

principally through agents that were not previously exporting.² This means that in order to take maximum advantage of trade liberalisation, conditions have to be created as early as possible for these agents to become exporters. It is possible that they may achieve this status without a change in policy being required; it may, however, be that because firms do not have access to the right information, or are not able to hire the necessary staff soon enough they do not manage to seize the opportunity.

The issue for policy makers is thus not only to opt for a given policy of trade liberalisation, such as negotiating for the adoption of a certain formula in WTO, but also, and importantly, to manage the trade liberalisation process, *before* and while it takes place. Accompanying policies are about helping the economy move from one state to another, and reallocating resources in the economy that become unused as a result of the adjustment process. It is important to look at the transmission channels affecting firms, governments and individual behaviour.

2) Understanding and perception: the three dimensions of adjustment

The nature of the adjustment arising from trade liberalisation is relatively well identified, at least in the literature. What is known with less precision is the extent of the cost of adjustment. Finally, whether or not specific policies, and what types of policies, are needed to manage the process of adjustment is also a topic left relatively unexplored.

a) The issue at stake: efficiency, equity, and political economy considerations

When people talk of *adjustment* they often do not refer to the same thing. A strict economic definition would designate the short-term process that characterises the move from one state of the economy to another, consecutive to liberalisation.

However, from a political economy (and social choice) perspective, policy makers will not only be concerned by short-term adjustment of factors of production but by other issues as well. It is therefore important to establish clearly *why* policy intervention is needed to adapt to trade liberalisation, as different policy motives may be justified by the need to cope with adjustment.

We classify these motives in three categories: efficiency, equity and political economy rationales. A pure welfare maximising approach will generally concentrate on the efficiency gains side. However, in reality, policies aiming at coping with adjustment often go beyond this definition, and integrate the need to assist sectors negatively impacted by trade liberalisation. This is because the latter are likely to oppose the process (the political economy dimension), and because of the need to compensate them with redistributive objectives in mind (the equity dimension) (Magee, 2001 discusses this in the context of the US Trade Adjustment Assistance programme).

² As recalled in Bachetta and Jensen (2003).

Efficiency motives arise from the objective to maximise social welfare by mitigating the frictional costs of the reallocation process. Such friction costs can be caused by market failures, or by other government policies that introduce additional distortions. For instance, because credit markets are weak in a given country, it might not be possible for private agents to find the capital to move into sectors that benefit from the liberalisation. In this case, there may be a role for the government to create an "adjustment friendly" environment (Bown & McCulloch, 2005). The objectives are essentially short-term, since evidence shows that a large share of the adjustment on factor markets takes place upfront (Harrison & Revenga, 1998; Hammermesh & Pfann, 1996).³

Political Economy motives arise from the desire to accommodate opponents to liberalisation. Unlike efficiency seeking, the issue here is how to offset the private costs of trade liberalisation on specific sectors and agents. The most direct way to achieve this is, of course, by postponing trade liberalisation itself, but this will be at the expense of the objective of efficiency gains (Bown & McCulloch, 2005a). Both policies are not necessarily incompatible in the medium-term, however, as compensating opponents of liberalisation may be the only way to implement the liberalisation policy and thus achieve efficiency.

Finally, *Equity* motives complete the equation to be solved by policy makers. The objective in this case is to guarantee that appropriate transfers are in place to redistribute more equally the gains from trade liberalisation. This is another policy set that addresses private costs. As a matter of fact, the poverty impacts of trade liberalisation are increasingly integrated in the policy debate in developing countries. The horizon of such policy is different from the other two, as it focuses on redistributing the long-term gains from liberalisation. However, short-term considerations will apply with respect to the poor, who are vulnerable in the very short-term. Redistribution motives can also run counter to the efficiency objectives of trade liberalisation, and can provide added reasons for opponents to liberalisation.⁴ This, however, need not be so, as neutral redistributive policies, and policies achieving both objectives of better redistribution and enabling efficiency gains, can be designed. As for political economy costs, equity considerations may be important to reach the objective of efficiency gains, as such objectives may be seen as a political necessity (Bown & McCulloch, 2005).

³ We may also want to bear in mind longer-term objectives of coping with future (not necessarily trade-related) adjustment.

⁴ Equity driven policies have served as a rationale (which may have been misguided) for the maintenance of some form of protection. For instance Indonesia introduced duties on rice in 2000 and even an import ban in 2004 to fight poverty (Hertel & Reimer, 2004).

Table 1. Policy objectives and adjustment policies

	Equity	Political Economy	Efficiency
Horizon:	LT	ST	MT
Focus:	Net effects Private costs	Net effects Private costs	Gross effects Social costs
Objective:	Offset	Offset/Facilitate	Facilitate
Example of Policy:	Pro-poor Tax cum subsidy	Safeguard protection Sector specific exemption Consensus building	Training Competition policy Subsidies (ST)

Source: Author

Note: ST = Short-term; LT = Long-term; Offset indicates the need to offer compensation to certain sector of the economy; Facilitate refers to policies making adjustment more easy.

A recent supplementary argument for adjustment policy is motivated by *global good* considerations. Fung & Staiger (1996) suggest that domestic adjustment programmes may help enforce international cooperation on reciprocal tariff concessions at the multilateral level. Thus adjustment policies help attain welfare superior objectives. Domestic adjustment in this case addresses international externalities, as by failing to liberalise a country imposes costs on its partners⁵ (Bown & McCulloch, 2005). This argument is important in the aid-for-trade debate (Page & Kleen, 2004) and a motive for an international consideration of adjustment. We focus in this paper on the domestic policies and therefore any international political economy motive for adjustment is not covered here.⁶

b) Adjustment costs and adjustment shocks

Case studies of trade liberalisation abound, although most focus on high or middle-income countries, and less is known of the process of adjustment within less developed economies. Whether the results of case studies are replicable in other countries is subject to considerable doubt. Another major issue in case studies is disentangling the causes of adjustment. The sources of external shock are numerous – technology changes; evolving consumer preferences; exchange rate movements; macroeconomic cycles; and trade liberalisation for instance – their effects blend in by forcing adjustment of factor markets. Trade liberalisation has often occurred along other structural adjustment policies, and determining when trade liberalisation has happened is difficult (Winters, 2002). As a matter of fact,

⁵ This is the rationale for the optimum tariff argument, but note here that trade distortions may be imposed for other political economy reasons, such as the European Common Agricultural Policy.

⁶ Given that developing countries are expected to be recipients of such adjustment assistance, it is not foreseen that global public good motives will alter the desirable policy prescription for these countries, but merely reinforce them and provide additional means to implement these. It may, on the other hand, change the policy prescription in developed countries, where policies that may be chosen for one of the three motives might be altered because of global public good motives.

changes, and therefore adjustment, occur all the time. While globalisation is often designated as the culprit, technology changes are much more important in magnitude (Bachetta & Jensen, 2003). There is one important characteristic of trade policy adjustment: it is predictable and therefore can be anticipated with the right set of policies. Besides, one should note that policies to deal with trade adjustment may well help tackle other kinds of adjustment caused by less predictable shocks: trade policy induced reform should therefore be seen as an opportunity.

The general message from the empirical literature about the size of adjustment costs is mixed. Labour adjustment costs have been the most surveyed. Studies agree that estimates of these costs in the long term are low in relation to the gains from trade liberalisation. It is difficult to quote precise estimates, but higher cost estimates do not amount for more than 5% of the total benefit from liberalisation. There is, however, a big caveat to this conclusion: these figures apply to developed economies. Surprisingly, given its importance, the question of adjustment costs for the other factor, capital, is less studied, certainly reflecting fewer concerns on that side. Studies indeed show quite consistently that compared to labour adjustment costs, capital adjustment costs are significantly lower. Baldwin *et al.* (1980) estimate for instance that they only amount to 10% of labour adjustment costs.

A further concern regarding developing countries lies in the existence of additional adjustment challenges. Because this problem is of a different nature than the costs discussed above, we will refer to it as adjustment shocks, following Charlton & Stiglitz (2006). This is not to say, however, that adjustment shocks do not raise similar issues in terms of their political economy, efficiency and equity dimensions.

Adjustment leaves countries with a very different economic environment than the one before liberalisation, and one that may present new risks. Such risks are, for instance, created by negative term of trade shocks, loss of tariff revenue or loss of preferential access rent. Two categories of adjustment shocks have attracted attention in the context of the Doha round: revenue and preferences. Developing countries rely more on international trade taxes for government revenue than developed ones, as they account for 4% of GDP of low and middle income countries against less that 1% for high income countries (Keen & Baunsgaard, 2005). Some African countries rely on trade taxes for over 50% of their revenue. The switch from international sources of financing to a more domestic tax base is also not evenly spread in time, and the adjustment must take into account this gap, and the ensuing risks on macroeconomic stability, developing countries being already more volatile to start with. Indirect evidence, such as whether governments have been able to recover the lost revenue, suggests that the trade tax loss is not without significant costs. Keen & Baunsgaard (2005) work on 125 countries concludes that low income countries have not been able to recover the lost revenue, while

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⁷ Recent estimates by Hall (2004) even find near zero adjustment costs in the US.

⁸ Hall (2004) find that capital costs are consistently smaller than labour adjustment costs.

middle income countries have not fared much better, managing to recover between 35% to 55% of the foregone trade tax revenues on average. This relatively stark assessment is, however, mitigated by success stories (OECD, 2004), but the conclusion for developing countries is that one should look at the government sector with care (see section 4 below).

The loss of market access preferences although a concern for only a handful of mostly small countries (Hoekman & Prowse, 2005), has attracted widespread attention, probably for two reasons. One is the political economy of preferences, which are a situation for which developed countries are partly accountable. It is difficult then to negotiate a development round without addressing this question. Besides developing countries facing the loss of preferences have to face the challenge to cope with rent loss, in addition to classic adjustment costs,.

c) Perception issues

Krueger (1990) notes that (private) losses from the liberalisation process are much more visible than gains. They typically arise over a longer period and are diffused across the entire economy. In studies of labour adjustment private costs to persons or firms are generally found to be of a big magnitude, which will probably trigger some government response in the form of equity or political economy policies. There is also evidence of long unemployment transition periods in reforming countries (Rama, 2003). Although not all this unemployment may be caused by globalisation, this may add to the perception that trade liberalisation is negative. Bown & McCulloch (2005a) recall that the gross losses and gains accruing to specific interests in the economy far exceed the *net* social welfare gain, and thus generate powerful political forces that affect the country's ability to achieve the potential benefits of adjustment. In other words, if trade liberalisation generates -9.5 welfare losses for the import competing industry and +10 welfare gains for the rest of the economy, policy makers will tend to look more at the first of these two numbers than the +0.5 net welfare gain and the +10 gross gain accruing to the remainder of the economy. Adding to the imbalance in perception is probably the fact that, as noted by Bown & McCulloch, the costs of adjustment will have to be borne upfront when benefits are discounted over the future. The policymaking process, which may be biased in favour of the short term, is therefore faced first with the certainty of adjustment, such as job losses, before witnessing the benefits from liberalisation, for instance job creation in a new exporting competing sector. Another perception deficit among policy makers is indeed that adjustment is not only about adjusting to negative outcomes, but also to positive ones (Hoekman & Smarzynska-Javorcik, 2004). The significant capacity constraints faced by developing countries may help explain the over-emphasis on negative outcomes. All this comes in support of the classic proposition of Olson (1965), that if

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⁹ A factor to take into account is for instance the potential constitutional bias against liberalisation in the country: when the executive term is short this may induce a focus on shorter-term issues arising during its tenure, and not after. Thanks to Patrick Messerlin for making this point.

benefits from liberalisation are diffused among many, while the losses affect a small number, the latter are more likely to organise themselves against the policy change.

Other factors are probably not well taken into account in studies of adjustment. People may not look forward to the prospect of finding themselves in an economic environment that is more volatile - or dynamic to use Rodrik's (2000) term - going through phases of adjustment, with loss of jobs and reemployment, even when the net outcome is positive. The timing of liberalisation also plays on perception: Gaston & Trefler (1997) found that if restrictive macroeconomic policy is pursued at the time of trade liberalisation, the false impression can be conveyed that the culprit is trade liberalisation. Krueger (1990) notes that losers are personified. This is something NGOs have been particularly efficient at exploiting for advocacy. Winters (2002) quotes surveys in Zambia that have shown that individual perceptions of liberalisation to have remained overall negative. At the same time that improvements in poverty levels were reported in household data, individual interviews suggested that even in the winning sectors people remained dissatisfied of their working conditions, even though it is likely that these had improved. Winters concludes that better collection of data and better public information can help overcome these discrepancies. The attitude of policy makers can therefore be explained also by the relatively hostile perception of liberalisation by populations, despite evidence pointing to positive outcomes.

3) Specific dimensions of adjustment in developing countries

The question of adjustment matters particularly for developing countries for three main reasons. First, the size of adjustment is bigger as developing countries start from more protected situations (nominal tariff levels in LDCs are 15% on average). Second, the specific situation of poor countries leaves them more exposed and vulnerable to liberalisation, because of their patterns of production and trade. Developing countries' exports tend to be concentrated in the most distorted sectors, agriculture and textile, clothing and leather. Their economies are less diversified, and specialised in low-value added sectors, leaving less scope for absorbing the adjustment shocks through other sectors of the economy. Firms may for instance have less opportunity for diversification into new or neighbouring markets and may thus be forced to exit (Greenaway, Gullstrand & Kneller, 2005). Some small economies are also very trade dependent. Developing countries are vulnerable to shocks, due to preference dependence, high revenue dependence or other reasons, and therefore need aid-for-trade to create effective markets (Charlton & Stiglitz, 2006). Third, developing countries are from an institutional point of view ill equipped to manage the adjustment path. Factor markets are less deep and efficient, coping uneasily with adjustment. Administration lacks adequate capacity to put the necessary policies in place.

¹⁰ A related point is that intra-industry trade in developing countries is low, thus offering no prospect of moving to a neighbouring sector of trade when facing adjustment.

Developing countries face important obstacles to realising the *efficiency* gains arising from trade liberalisation. Failing markets and regulatory constraints may, for instance, result in specialisation in the wrong sectors and in trade liberalisation having immiserizing effects (Bolaky & Freund, 2006). Close attention needs to be paid to channels of transmission of trade liberalisation shocks in this respect. Winters (2002) recalls how the maize sector collapsed in Zimbabwe, where trade liberalisation and the withdrawal of the government from the sector led to the disappearance of markets such as supply of inputs for crops. Bachetta & Jensen (2003) recall the experience of Mozambique and the liberalisation of the cashew nut sector. Political intervention - de-regulation but also re-regulation - is necessary.

Firms play an important role in facilitating adjustment, not only as the consumers of factors of production, including labour, but also, in developing countries, as providers of basic and unique services to the local economy: services such as credit, or supply of inputs, but also housing, or education (the sugar industry in Jamaica for instance). When these services disappear because of liberalisation, this loss is not compensated by the price rise of the output (Winters, 2002). Similarly Rama (1999) warns of the risk of "one-company-town" externalities, when liberalisation affects sectors that are a large source of employment.

Firm shakedown resulting from liberalisation thus raises serious *equity* dimensions. These can also be viewed from an efficiency perspective: when large parts of the poor population depend on a sector that will not manage to compete internationally, it is conceivable that liberalisation can have an immiserising impact through increasing existing poverty trap effects. More likely, liberalisation may not have the efficiency effect foreseen, because causes of poverty have not been addressed beforehand. In particular, where market failures affect more particularly the poorest in developing countries, efficiency gains may not transfer into equity ones, as poverty traps persist (Dercon, 2004).

Even small shocks can have disproportionate effects on the poor, due to their inability to smooth out risks. Although unskilled people are not hindered by skill specificity, they find it harder to find jobs outside their sector of origin, as labour markets in developing countries are segmented (Winters, 2002). Limited access to information is an issue, as is lack of access to means of smoothing out consumption: lack of ownership of assets, access to credit and future markets, or insurance policies mean that they are not able to cope with downturns. This explains, for instance, why farmers are often particularly vulnerable, because of a very limited ability to stock their production. Specific transmission effects also happen through consumption channels: because their share of consumption on import goods is lower, the poor are also less likely to benefit from the positive effect on consumption of lower prices (Ravaillon & Loskin, 2004). It should be noted, in particular, that the

¹¹ Tchesnokova (2005) offers a model where credit constraints can drive such effects.

¹² On this see MacMillan, Rodrik and Horn Welsh (2002)

effects on the poor will be essentially fel in the short-term therefore perhaps calling for specific policies of redistribution targeted at them.

Lastly, the *political economy* of trade liberalisation in developing countries may also present specific difficulties. Beyond the specific risks for poverty outlined earlier, the poverty dimension will increase the perception that trade liberalisation is negative. Industrial concentration is higher in developing countries than developed ones (Tybout, 2000), and may facilitate coalitions opposing reform: "[o]n average, large firms in Africa have twice the market share of those in China, India and Morocco". It could also be expected that large firms' place in the economy of developing countries is more important (this can be related to the "one-company town" phenomenon mentioned earlier) and thus access to government (in some occasions very direct when large companies are owned by cronies) might be easier.

Trade policy is often used to achieve non-trade objectives and alternative policy tools may not be readily available in developing countries. A well-known example, already mentioned, is that of taxation, with government revenues relying heavily on foreign taxes. Reform is confronted with the dual problem of implementing administratively more complex systems such as VAT, and also the politically unpalatable prospect of enlarging the tax base to domestic agents (foreigners do not vote). Likewise subsidies are not an option for cash-strapped governments and protection might be preferred.

Developing countries now benefit from numerous and varied preferential regimes, through unilateral or regional schemes. These may act as stumbling blocks to further liberalisation (Bhagwati, 1991; Limao & Olarreaga, 2006), because such preferences are received in exchange of concessions in non-trade areas, meaning that both the recipient and provider of preferences are likely to oppose their elimination in the future. Preferential regimes may also affect the nature of adjustment if they are a source of large trade diversion and thus increased pressure for sector relocation.

4) Policy lessons for measures to accompany adjustment

a) Gradualism and sequencing

Timing matters. It is often argued in this respect that the speed of liberalisation matters. The arguments against rapid opening essentially pertain to the risk of impact, the potential disorganisation effect (Blanchard & Kremer, 1997) on the overall economic environment and the macroeconomic imbalances that such a process would involve. It is also widely accepted that introducing trade reforms

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¹³ Gobind Nankani, Enhancing Africa's Development Through an 'Export Push': Prospects and Challenges, speech delivered at Woodrow Wilson International Center for Scholars, 14 September 2005. http://web.worldbank.org/WBSITE/EXTERNAL/COUNTRIES/AFRICAEXT/0,,contentMDK:20654339~menu PK:258660~pagePK:146736~piPK:146830~theSitePK:258644,00.html (accessed 10/05/06).

in times of economic downturns is not desirable. This is why the WTO offers safeguard mechanisms. Finally there are arguments suggesting that in the presence of adjustment costs, gradual trade reform is the only sustainable political economy path towards liberalisation (Bonds, 2005; Furasawa & Lai, 1997).

On the other hand, opting for a gradual process means bearing the cost of protectionism for longer, and might create wrong incentives to invest in the non-competing sector during the transition period (when, for instance, staggered liberalisation temporarily increases rates of effective protection). Winters (2002) also notes that once introduced, trade policy reforms have often been implemented ahead of schedule, as in the Philippines (Clarete, 2005), reflecting perhaps the desire of the private sector to shorten the adjustment phase. This suggests in turn that transition periods, during which trade barriers removal is deferred, should be accompanied by other measures. The lessons of the missed opportunities during the ATC phase-out (both from the perspective of developed and developing countries) should therefore be learned since gradual implementation resulted in politicians backloading adjustment policies (Francois & Woerz, 2006).

Beyond the need for public commitment to reform, private agents also need to perceive the incentive to adjust. If economic agents do not believe in the policy change they are witnessing, they will not start to adjust. One way to gain credibility is signing up to international agreements and committing to liberalisation, but we also believe in having governments undertake complementary reforms, which can act as commitment (for instance if assistance programmes are designed) and signalling devices for the private sector.

Sequencing of different reforms is the other aspect of the dynamic dimension of policy making. We do not have much to say on this, as the debate is still open on the question of whether trade liberalisation should precede, be concomitant with, or wait until complementary policies (such as provision of adequate infrastructure, education, and institutional support) are in place. Sequencing issues are perhaps clearer in the case of budgetary issues where loss of trade taxes is foreseen: prior implementation of reduction of expenditure or a switch to alternative sources of revenue is warranted.

Offsetting trade policies

The first answer to adjustment spurred by trade liberalisation might be the temptation not to engage in the full liberalisation process, to go for partial implementation of trade reform, or rely on contingent protection *post* liberalisation. This is often what is observed in practice. While very few countries have not subscribed to the idea that trade liberalisation brings benefits, partial implementation remains the norm. Schematically this can either be achieved by exempting specific sectors from the liberalisation process, taking a gradual approach to the pace of implementation, or resorting to safeguard mechanisms such as high levels of tariff bindings and contingent protection.

Sectoral exemptions seem generally motivated by political economy motives, so as to preserve the *status quo* in favour of liberalisation in other sectors. Such policies are very appealing, because the cost for governments of implementing them is almost nil, though this does not mean that these policies are cost-free for the economy.

The case for such exemptions to generate efficiencies (such as in the infant industry argument) is weak. Governments are not very good at picking winners and often end up protecting inefficient producers. By definition, the infant nature of an industry is temporary, while exemptions and exceptions are unlikely to have a clear sunset. Irwin (1998) estimates that infant industry protection actually slowed down adjustment, retarding the emergence of the US tinplate industry by a decade in the late nineteenth century. In addition, these policies do not seem well suited to poverty reduction, as trade protection generates rents paid by the consumers and captured by narrow interest groups without being redistributed. An example of such rent is the European Common Agricultural Policy, which benefits primarily big farmers (Messerlin, 2003).

Subsequent to liberalisation, contingent protection tools, such as anti-dumping, and safeguard mechanisms may also provide temporary (or not so temporary) relief. There is relatively strong empirical evidence that such tools do not achieve the expected outcomes of shielding the industry from decline, and often end-up filling the pockets of vested interests (Bown & McCulloch, 2005a). Limited examples of successful safeguard of an industry exist (OECD, 2004, reports the story of Harley Davidson in the US) but the cost of success is often not known.

Pure gradual, across-the-board, implementation is not sector specific and suffers less the risk of rent capture by specific interests. Bachetta & Jensen (2003) believe that gradual approaches matter to developing countries in order to: help build a capital base to compensate for lack of access to credit; achieve credibility for the reform process; help mitigate the size of the shock, which is likely to be important as trade liberalisation is likely to affect strategic industries.

Gradual liberalisation carries the opportunity cost of foregone gains from trade liberalisation and does not tackle the source of the problem. It is also important that gradual implementation does not send the wrong signals to economic agents and generate incentives to lobby for more protection. Therefore a credible commitment towards full and timely liberalisation is essential. International commitments to the WTO or to regional trade agreements are commonly thought to provide such a credibility anchor. It should also be noted that trade protection is relatively inefficient in the longer term, as it tends not to reduce imports as much as hoped, therefore not generating as many gains as expected for the protected sector. Trade protection instruments may lead to diversion in less protected competing imports or substitute products (as in the case of switching from sugar to sweeteners), to reduce production, and to benefit from monopoly rents.

These arguments suggest strongly that gradual implementation should occur over a limited period of time, and that it is evenly spread across time and goods, so as to avoid back-loading of reform and raising the effective rates of protection (Matusz & Tarr, 1999). Also, since the objective of the gradual process in this case will either be to ensure that efficiency gains are maximised, or that the adverse effects on poverty of the liberalisation shock are diminished, it is necessary to ensure that complementary policies aiming at achieving these objectives are in place.

b) Complementary domestic measures

The second important dimension of adjustment policy is the promotion of an environment in which economic agents will adopt optimal behaviour. The economic environment matters. Macroeconomic stability, good quality of institutions (Rodrik, Subramanian & Trebbi, 2004)¹⁴ and good governance will provide an enabling environment for agents to go through the adjustment process. Research also suggests that trade liberalization can reduce growth rates in the presence of over-regulation, in part because policy-induced distortions create incentives for the wrong kind of adjustment, away from exporting what is in a country's comparative advantage (Bolaky & Freund, 2004). We focus in the remainder of this paper on policies that directly affect agents' incentives to adjust. From the literature, two sectors seem to warrant the most attention: firms and labour.

Policies directed at firms

For firms, Hoekman & Smarzynska-Javorcik (2004) advocate policies supporting competitive firm conduct. This involves, for instance, policies removing barriers to entry *and* exit from markets. The necessity to provide contestability to markets is often underlined with implementation of competition regimes, and import competition, and facilitating the setting up of the new businesses. On the other hand the significance of policies permitting exit of inefficient firms, and transfer of the assets of failing ventures, such as bankruptcy laws, is often neglected. The importance of exit is underlined by recent findings that in the UK it contributed to 50% of overall productivity growth (Criscuolo, Haskel & Martin, 2004). However, Tybout's (2000) conclusion that in many cases the manufacturing sector problems are not due to lack of competition and inhibited entry and exit questions the need to prioritise such policies. Tybout suggests instead that sources of uncertainty in the economic environment, such as poor rule of law and corruption, are the source of the problem.¹⁵

Secondly access to technology and know-how is crucial, since technical change is largely recognised as the main driver of growth. Government intervention is necessary in the knowledge market, due to

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¹⁴ Actually Rodrik *et al.* find that good institutions trump trade openness as a factor for growth. They find trade to have a negligible direct influence on growth levels, although trade is a positive factor in good quality institutions. We take here a weaker interpretation of their result as meaning that the interaction of trade openness and institutions matters.

¹⁵ He also says that barriers to trade should be removed, if still existing.

the abundance of market failure. Government action can take numerous forms: this ranges from active subsidisation of R&D to policies inciting FDI and the transfer of knowledge to the economy, and regulatory institutions guaranteeing the appropriability of knowledge such as intellectual property rights or government sponsored research. This point is also emphasized in the findings of the case studies conducted by OECD (2004b), in which successful adjustment is associated to smart policies of technology transfer.

Third, Hoekman & Smarzynska-Javorcik (2004) suggest enabling foreign market access in order to foster spillovers from trade. This is a difficult challenge for firms, especially small ones, in particular as informational barriers in developed markets are high. Firms must also compete with well-established and entrenched competitors and overcome uncertainty. Government intervention can help mitigate many of these barriers to entry with export promotion strategies (tax exemption, provision of market information, etc.), although the track record of similar policies is not all positive.

Government intervention in this sector should, however, beware of subsidising inefficient producers or giving the wrong incentives to become inefficient. Policies of direct assistance to industry or firms do not have a good track record (Hoekman & Smarzynska-Javorcik, 2004). Therefore, horizontal-type policies that aim primarily at addressing market failure instead of industry or firm failure and are not coupled to specific sector performance are preferable.

Overall, the case for economy-wide, industry-wide or firm-specific protection will depend on the type of market failure that is addressed. One argument is that trade adjustment should call for industry targeting. Given the laws of comparative advantage, there may be a case for helping declining industries to adjust faster with targeted help. An example of industry-targeted adjustment policy is the United States Trade Adjustment Assistance programme (albeit motivated by political economy reasons). However such programmes are difficult to implement and it is possible that general-purpose policies may address the market failures that prevent desirable adjustment. Rodrik (2004) also argues for policies ensuring the provision of public goods to the private sector, such as information, sanitary and phytosanitary standards, and sound institutions¹⁶, and also for policies whose focus is not on outcome, but on making policy processes work, thus suggesting a large degree of broad-based intervention.

In the case of policies providing support, the more targeted the intervention, the more likely are the risks of private capture. Another consideration is that what is effective at one level may not be at another: for instance industry protection may keep an industry size constant, but not diminish the rate of firm turnover in the industry (Bown & McCulloch, 2005).

¹⁶ Rodrik's argument is about industrial policies and therefore the scope of some interventions goes beyond the sole question of adjustment, such as the need for R&D policies.

Credit markets and services

In order to cope with inter-temporal adjustment, recourse to credit markets is key. Addressing the reasons for lack of depth of credit markets and credit availability should therefore help the adjustment process. Policies impeding the development of efficient credit markets are common in developing countries, ranging from restrictions over entry and over-regulation of interest rates, to crowding out of the private sector by (inefficient) public sector borrowing. Unavailability of information in the form of standardised accounting systems and credit records is also a factor hampering credit lending. Evidence shows quite clearly that small operators are the most vulnerable to this lack of access to credit (Bachetta & Jensen, 2003) and therefore suggests that policies should be directed at them in particular. Subvention of credit schemes has been tried out, but confronted to the difficulties of access to information and selection of valid investment plans. An element of training of private sector agents is therefore part of the policy (as for instance in micro-credit schemes).

Horizontal infrastructure services providers play a central role in the economy and the process of adjustment (OECD, 2001). The spillovers of efficiency gains in these sectors accrue to the economy as a whole. Collier & Dollar (1999) demonstrate how the lack of transport, communication, or electricity impact on the manufacturing sector. Also, policies aimed at developing trade-related services such as access to communication matter a great deal. Fink, Mattoo, & Neagu (2002) for instance demonstrated that access to good telecommunication services has a significant impact on trade.

Labour and welfare policies

Partly because changes in the labour market are among the most important channels of transmission of trade liberalisation shocks, but certainly also because they have disproportionate political relevance, policies directed at the labour market have been the subject of numerous designs.¹⁷

Discussion of so-called adjustment policies directed at labour markets often does not distinguish between efficiency, equity and political economy objectives. For instance, concerns about employment levels pertain to the equity and political economy debate. We do not review here in detail the voluminous literature on labour adjustment. We distinguish between policies aiming at favouring labour mobility and compensation policies, noting that most policies are generally designed with compensation in mind. This is probably because policies trying to achieve efficiency and favour mobility are more difficult to design. In this respect, as pointed out by Rama (2003) the most

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¹⁷ Krugman (1993) affirmed: "The level of employment is a macroeconomic issue, depending in the short run on aggregate demand and depending in the long run on the natural rate of unemployment, with microeconomic policies like tariffs having little net effect. Trade policy should be debated in terms of its impact on efficiency, not in terms of phony numbers about jobs created or lost" (quoted by Oslington, 2005). Krugman is merely trying to point to where policy should focus its attention: costs arise from market imperfections, not from trade liberalization.

important policies are probably *out of the labour market*, and focussed on enabling economic agents to adopt optimal behaviour. This does not mean, however, that labour policies are not needed to mitigate the impact of job losses.

Training schemes have proven to be of limited utility, notably due to overestimation of the effectiveness of classroom training as compared to on-the-job learning. There are also incentive compatibility issues. Finally, such schemes rely on the assumption that skill upgrading is a condition of re-employment, which is not necessarily the case, as other sectors may need low-skill labour, or already highly skilled people may not need such training. Other job-search support programmes include employment services, placement information, and counselling. Such programmes can be very efficient in developing countries were markets are segmented and information about other geographical or sectoral markets may not be available to the poorest. In particular, participatory approaches should be advised as a means to improve information sharing (OECD, 2004b).

Unemployment insurance, income support programmes (Argentina), mandatory saving schemes, minimum wage, and compulsory severance payments (Peru) could possibly generate efficiencies, enabling individuals to maintain their wages and helping them afford to look for new jobs in a more secure environment. A common criticism of unemployment insurance is, however, that when too generous, it generates perverse incentives to stay out of job longer; compulsory severance payments give firms an incentive to hire less. Minimum wages combine both drawbacks. ¹⁸ Finally the efficacy of income support programmes is not proven (Rama, 2003), while compulsory saving does not address the problem of the poorest. Overall, the efficiency effects of these policies to help re-employment are not entirely clear, and it seems rather that compensation motives drive them.

Subsidies to mobility have been suggested, along with tax on commodities, before being adopted in some countries, notably in the shape of wage-insurance schemes (Kletzer, 2004). This works on the premise that when displaced workers find a new job, part of the wage gap with their previous job is subsidised for some time after. The mechanism is also compensatory, but with a built-in incentive to adjust rapidly by finding a new job. Mobility can also be impaired by the cost of exiting a job. Bachetta & Jensen (2003) draw attention to the portability of fringe benefits, which is for instance inexistent in Mexico.

Although the scheme is rare, specific trade-related compensation is another possibility, as in the US Trade Adjustment Assistance programme. Bhagwati (2003) argues against adjustment specific assistance policies, because of the wrong incentives they generate, noting also that the sources of adjustment are numerous. There is no rationale for singling out a specific policy for adjustment

¹⁸ This of course depends on the level of the minimum wage, which is fairly widespread in developing countries (see Bachetta and Jensen, 2003).

assistance: why provide assistance when an industry faces import competition but not when it faces domestic competition? This approach also leaves each policy change vulnerable to compensation claims. Finally, identifying who is affected is fraught with difficulties and offers scope for discretionary application. The TAA is widely viewed as motivated by political economy considerations, compensating losers from liberalisation (Bown & McCulloch, 2005a).

Policies directed at the poor

For poverty labour issues matter, in particular in relation to employment of unskilled workers (Winters, 2002). Harrison & Revenga (1998) find that employment in the manufacturing sector rises again in half of episodes of liberalisation they study. In other cases, where employment did not recover as well, stark conditions prevailed beyond mere trade liberalisation. They conclude that trade shocks should not pose a problem in most cases, as workers were already very poorly paid before liberalisation. There are, however, three situations were poor workers might be significantly at risk: huge shocks ("one-company town"); high prior protection; specificity of factors. These conditions are unfortunately not uncommon and policy intervention should be devised in such cases.

There are several ways in which redistribution policies can be integrated into an adjustment strategy. Equity objectives can involve adding a non-distorting mechanism of welfare compensation.¹⁹ Efficiency *cum* equity is a superior policy objective. Secondly, some policies favouring efficiency gains are also promoting more equitable distribution of gains. Supporting factor mobility helps the diffusion of the gains and losses from trade liberalisation throughout the economy.²⁰ Thirdly, some argue that redistribution policies generate political economy benefits, by insuring against economic insecurity and creating long-term support for reforms (Rodrik, 2000, quotes Argentina reforms in the 1980s as an example of failure in this domain).

Sectors where the provision of universal services is assured (telecoms, water, electricity, mail, banking) should play a central role in the provision of efficiency *cum* equity. The practice in developing countries seems to indicate that such services do not always play their redistributive function, and that liberalisation though creating efficiencies, has often had a negative impact on the poor, benefiting affluent urban populations at the expense of others. Sometimes, as outlined earlier, the provision of services is also ensured by non-traditional services providers (such as large farm estates in rural areas). Government intervention in the context of adjustment policy should, firstly protect the provision of such services to the poor. Secondly, it should enable better provision of services to the

¹⁹ A review of the arguments is provided by Facchini and Willmann (2001).

²⁰ Winters (2002) finds in the surveys of trade liberalisation he reviews that the impact is unequally shared. This is probably explained by the segmentation of labour markets in these countries: displaced workers find it difficult to secure jobs in other sectors other than those closely related to their original one. A generalisation from this argument is that poverty arises essentially from failing to access markets, and therefore from inefficiencies.

poor, including through direct regulatory intervention, or subsidisation of users and providers of services.

Government revenue

Policies to manage government revenue along with trade liberalisation require two main components: revenue-efficient tariff reduction and domestic tax reform. OECD (2004) offers a review of these policies in the context of the NAMA negotiations. Switching from trade taxes to domestic ones is generally viewed as efficient, as the former apply to a narrow tax base and distort consumption *and* production decisions. Many developing countries have already started applying this prescription and moving away from trade taxes. Indirect taxes on consumption are viewed as superior to direct taxes on factors of production (capital and labour): less costly to maintain (than direct taxes, but more expensive that international trade taxes) and incentive-compatible. However, they also present specific difficulties for developing countries. First, there is debate about the capacity of low-income countries to implement some of the reforms that developed countries have made, such as VAT taxation. This could mean than when confronted with potentially large adjustment efforts, as discussed above, developing countries may also have less policy options at hand when switching from trade taxes to domestic ones. Secondly, indirect taxation tends to be biased against lower incomes, which tend to consume a higher share of their disposable income, thus running against poverty-reduction objectives.

The preference for uniform and non-discriminatory tariff reduction seems well established (Matusz & Tarr, 1999). This includes neutrality between taxes on imported and domestically produced goods (OECD, 2004).

5) Conclusions

This review of adjustment challenges has put in evidence three drivers – efficiency, equity, and political economy – behind adjustment policies. There is a clear risk that under the guise of adjustment policy different objectives are sought, including some that would not necessary benefit the economy as a whole. There is also a risk that legitimate policy objectives motivated by different factors end up undoing one another.

This, however, need not be the case, as complementarities exist among these objectives: what is required is careful design. First, objectives have to be clearly stated with prime focus on policies promoting efficiency. Second, implementation requires coherence and mainstreaming these policies in a comprehensive development strategy.

Many of the policies enumerated above are not specific to trade-adjustment, and trade liberalisation is only one cause of adjustment among others. However, trade liberalisation is predictable, and therefore

and quota reductions. This is basically the rationale behind recent calls for aid-for-trade.				

can act as a catalyst for other reforms, which will facilitate adjustment beyond mere response to tariff

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