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Aid Selectivity According to Augmented Criteria

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Summary

A dominant trend in the literature maintains that donor assistance should be targeted to poor countries with sound institutions and policies. In this context, donor selectivity refers to what extent aid is allocated according to the principles of this "canonical" model. This paper shows that it is legitimate for donors to simultaneously use other selectivity criteria corresponding either to expected factors of aid effectiveness or to handicaps to

development. It is notably argued that vulnerability to exogenous shocks and low level of human capital should be considered as selectivity criteria. Taking these other criteria into account dramatically changes the assessment of donor selectivity.

Key Words: Aid selectivity, aid effectiveness, vulnerability, handicaps, least developed countries.

1. Introduction

Not all countries have the same capacity to effectively use external assistance to promote their development. With the decline in international aid during the 1990s, the issue of aid allocation and its effectiveness naturally came into the spotlight. This gave rise to the concept of "aid selectivity", which refers to the quality of aid allocation, the most selective aid being that which maximises the effectiveness with regard to the set objectives. Although the international community has since made the commitment to significantly increase the volume of development aid, the issue of selectivity remains high on the agenda.

Since aid selectivity is defined as the quality of its allocation, assessing selectivity implies comparing actual allocation to what would be an optimal one. Research on "good allocation" has gone through two phases. In a first long-lived phase, the literature sought to identify, from among the explanatory factors of allocation, those which represented the recipient countries' needs, as opposed to the donor countries' interests. "Good allocation" was deemed to be that which met the recipient countries' needs (Alesina and Dollar, 2000; Berthélémy and Tichit, 2004; Berthélémy, 2004, Canavire et al,. 2005). In a second, more recent phase, some authors (Collier and Dollar 2000, 2001, Dollar and Levin, 2004; Roodman, 2004) have sought to establish selectivity indicators by examining to what extent aid is allocated to countries where it is likely to be the most effective. These works referred primarily to the analysis of Burnside and Dollar (2000) on aid effectiveness. The present paper focuses on the second phase. One reason for this choice is that the World Bank and the IMF, in their Global Monitoring Report (2004 and 2005) make unquestioning reference to Dollar and Levin's study, which tends to give it some political credence that could well impact donor behaviour. The main message of these works on selectivity indicators is that selectivity is to be assessed from the level of income (or poverty) and the quality of policy (governance) of recipient countries.

This paper argues that these analyses of selectivity indicators raise significant methodological problems, which heavily influence the assessment of aid selectivity for both bilateral and multilateral donors. It also considers as legitimate for donors to simultaneously use other selectivity criteria corresponding either to expected factors of aid effectiveness or to handicaps to development. It is notably argued that vulnerability to exogeneous shocks and low level of human capital should be considered as selectivity criteria. Taking these other criteria into account dramatically changes the assessment of donor selectivity. This is evidenced through several methods of assessment of aid selectivity.

After stating those principles which, in our opinion, should form the basis of any measurement of the aid selectivity, and thereby clarifying the limits met by the recent analyses on selectivity, we show how donor ranking can be reversed according to the criteria used to assess aid selectivity. We use successively two methods of assessment, one referred to as the elasticity approach, the other as the recipient average profile approach.

This paper is structured as follows. Section 2 examines some principles for the assessment of aid selectivity, while the next three sections investigate three different ways of measuring it: selectivity measured according to a dichotomic criterion (section 3), selectivity measured by elasticities from an aid allocation model (section 4) and selectivity measured by an average profile of recipient countries (section 5). Section 6 concludes.

2. Some Principles for the Assessment of Aid Selectivity

Selectivity of total aid as opposed to selectivity of each donor

The analysis of selectivity can either be conceived to examine the extent to which the allocation of total aid (from all sources) approaches an optimal allocation, or look at the degree to which each source of aid conforms to the criteria of optimal allocation, which produces a ranking of donors according to the selectivity of their aid.

The selectivity of the total amount of aid, as analysed by Collier and Dollar (2001, 2002), refers to the Millenium Development Goals of lowering poverty (taking as objective the maximum reduction of the number of poor) by 2015. Aid is expected to contribute to this goal through its effect on growth, according to an income elasticity of poverty assumed to be the same across countries. Following previous studies by Burnside and Dollar (1997, 2000), Collier and Dollar assume that the positive effect of aid on growth depends on the quality of the economic policy (measured using the indicator of the World Bank's Country Policy and Institutional Assessment the CPIA). They then design a linear program which enables an optimal aid allocation between the various countries to be calculated on the basis of the current level of total aid. This allocation is intended to equalise the marginal contributions of aid to reducing the number of poor per country, by taking into account three elements: (i) the decreasing marginal impact of aid on growth, (ii) the initial incidence of poverty in each country, and (iii) the quality of their current economic policy. In other words, the objective of aid allocation is to maximise the sum of output increases in all the developing countries, weighted by the percentage of poor (people with less than one dollar per day) in each country's population. As this first simulation results in allocating most of aid to India, Burnside and Dollar constrained aid allocated to

India to remain at its current level. Modifying the current allocation of the total aid according to their simulation would make it possible to double the number of people moving out of poverty by 2015. This study was an invitation to the donors to collectively reform their approach to aid allocation in order to accelerate the achievement of the Millennium Development Goals¹.

The comparative analysis of each donor's selectivity was initiated by McGillivray (1989, 1992), who uses the recipient countries' per capita income as the single criterion of selectivity. An additional stage was reached by Dollar and Levin (2004) and Roodman (2004), who diversify the criteria. Dollar and Levin run a model of aid allocation (for each donor on annual data from 1999 to 2002, and then on a five-year average), including explanatory variables corresponding only to the so-called "good criteria": the level of GDP per capita (negative coefficient expected) and the economic policy, measured by the CPIA (positive coefficient expected). The control variable is the population size. The per capita income elasticity of aid is intended to represent the sensitivity of each donor to the level of poverty, and the CPIA elasticity of aid its response to the quality of the receiving country's economic policy. The simple average of these two elasticities (after having reversed the sign of the income elasticity which is normally negative) is taken as the indicator of each donor's aid selectivity.

The indicator proposed by Roodman (more directly inspired by the work of McGillivray) differs from Dollar and Levin's in that it is not based on the econometric estimation of functions of aid allocation. Each donor's performance indicator corresponds to its aid volume adjusted to take into account the "quality" of aid, particularly its selectivity (the volume of aid is lowered according to the "bad" quality of allocation). The

adjustment of aid value with regard to the selectivity does not apply to emergency aid, the granting of which increases the performance of the donors whatever its destination. The aid selectivity depends both on the recipient country's per capita income and on an indicator of its governance designed by Kaufmann and Kraay² . The adjustments for project aid and programme support are different, because David Roodman considers, following Radelet 2004, that project aid is more effective than programme support in countries with poor governance. The linear weights applied to the level of the per capita income and to the level of governance are multiplicative, so that the aid granted to a rich, well-governed country is equal to zero, as is the programme aid granted to a poor, badly-governed country. From the adjustment of the actual value of aid according to its quality, two indicators are provided for each donor for 2002: the value of the donor's adjusted aid in proportion to its GDP, and the rate of aid quality or aid selectivity (i.e. the ratio of the adjusted aid to the aid value before adjustment).

The analysis of the principles on which these measures of selectivity are based makes it possible to underline their main limits.

Selectivity is only one aspect of aid quality

Evaluating the selectivity of each donor's development assistance does not mean measuring its overall aid quality, but only one aspect—the quality of geographical allocation insofar as it affects aid effectiveness. The modalities of the assistance given to each country are obviously also a factor of effectiveness. Thus Roodman (2004), in order to provide an indicator of the aid quality, adjusts its value not only according to the allocation (the selectivity by itself), but also according to its degree of tying and its fragmentation into many purposes.

Moreover, optimal allocation of aid is undoubtedly not independent of its purpose (project, programme, technical assistance, emergency), the conditionality attached, the type of financing (grants or loans), and the extent to which the aid is tied. This means that aid effectiveness does not depend only on the behaviour of the recipient countries, but also on the donors' behaviour. Whilst Roodman takes into account

several modalities of assistance to assess donor selectivity (which is somewhat debatable), Dollar and Levin address the issue of selectivity independently of the modalities used, which constitutes a first limit of their measurement of selectivity.

Selectivity is related to the objectives of aid

Selectivity is basically a relative concept, as it signifies the optimal allocation of aid with regard to its effectiveness, which is necessarily contingent to its objectives, and these objectives can logically differ from one donor to another. The usual objective is economic growth. However, since the adoption of the Millennium Development Goals, the aid objectives pursued by the international community have become multidimensional, even though a common target is poverty reduction. Over and above the Millennium Development Goals, foreign aid can target other objectives that should be assessed in terms of effectiveness. These may include the promotion of democracy or the respect of human rights, neither of which have a clear link with growth and poverty reduction. Aid can also be used to finance global public goods, which generate positive externalities to nonrecipient countries (e.g. control of pollution or communicable diseases), or it can finance post-conflict countries and help them to avoid the resumption of conflict and to rebuild their economies. Collier and Hoeffler (2004) also show that aid promotes growth in post-conflict countries more than elsewhere. Finally, some countries, particularly France, assign specific goals to their aid policy, such as supporting former colonies or countries that share their language. These goals can be considered as legitimate insofar as they express specific solidarity or responsibility. They can also be justified with respect to the criterion of aid effectiveness to promote development. Certainly, the ties created by a colonial past or a common language, facilitate understanding between partners when aid involves a dialogue on the actions implemented and a transfer of knowledge, which is often the case.

It is difficult for analyses of aid selectivity to take into account the diversity of the donors' goals. They thus focus on poverty reduction resulting uniquely from the effect of aid on economic growth. This constitutes a second limitation of such analyses.

Selectivity depends on various recipient country characteristics which condition aid effectiveness

Recent studies on selectivity (Collier and Dollar, 2001, 2002; Dollar and Levin, 2004; Roodman, 2004) are based essentially on Burnside and Dollar's thesis (1997, 2000) on the relationship between aid and economic growth (used as a basis for the 1998 World Bank report, *Assessing Aid*), and fail to take into account the academic community's extensive critical studies that followed Burnside and Dollar's work³. Leaving aside the criticisms of the robustness of the econometric results and those concerning the choice of economic growth as the sole objective of aid (mentioned above), let us briefly examine the basic questions of the model's relevance and main assumptions.

The assumption—presented as self-evident, yet not developed in detail—according to which aid effectiveness depends on economic policy and institutions, has been discussed less in its principle than because of the definition given of "good policy". In a new version of their work (2004), Burnside and Dollar (as done by Collier and Dollar, 2000, 2001) use the CPIA indicator designed and used by the World Bank to determine the amount of its commitments per country. The CPIA itself includes twenty indicators related to economic policy, institutions and governance⁴, reflecting a broad vision of economic policy. Nonetheless, this indicator poses two problems: (i) it is based on an assessment of country policies and institutions by World Bank staff only and (ii) it is not available outside the Bank and cannot be used by either academics or other donors for their own aid allocation purposes. Finally, its use supposes that, in all the countries, whatever their specificities and preferences, it is the same kind of economic policy (defined as good) which promotes growth and increases aid effectiveness. This assumption has been strongly criticised by Kanbur (2004), McGillivray (2004) and Michailof (2004).

More important, however, is to acknowledge that aid effectiveness in terms of growth does not depend only (and perhaps not even mainly) on the recipient's economic policy. Other factors, which have been econometrically tested, intervene. The importance of economic vulnerability, for

instance, has been identified (Guillaumont and Chauvet, 2001), i.e. shocks to which many developing countries are particularly exposed, either through their foreign trade, notably because of the variations in the international prices of primary commodities, or due to climatic incidents or natural disasters. These factors both have a negative impact on growth and increase aid effectiveness. Indeed, in the countries facing shocks, aid can avoid shortfalls in imports and the slowdown of growth, as well as the cumulative decline that often ensues. The higher the amount of aid, the more it relatively dampens the macroeconomic impact of shocks; that is to say, aid is marginally more effective in more vulnerable countries or, in other words, aid decreases the negative impact of the vulnerability.

The analysis of the ways in which aid effectiveness is influenced by the recipient country's vulnerability and by factors other than economic policy has been developed in several directions. Studies have highlighted the specific effect of aid provided at a time of negative terms-of-trade shocks (Collier and Dehn, 2001) or in post-conflict situations (Collier and Hoeffler, 2004). Following on from their earlier studies, Chauvet and Guillaumont (2004) highlight how several factors simultaneously influence aid effectiveness. Their findings indicate that economic vulnerability (measured, this time, simply through the instability of exports and the terms-of-trade trend) increases aid effectiveness. Political instability, on the other hand, decreases effectiveness, unless such instability occurs in neighbouring countries, in which case, effectiveness is increased. The quality of infrastructure and education also brings about an increase. As for the level of human capital, however, other authors have recently supported the view that aid effectiveness is marginally higher in countries where this level is lower (Gomanee, Girma and Morrissey, 2004).

Regarding economic policy, the critique of the current view does not only concern the robustness of the econometric results or the indicator selected, it also concerns the assumption that donors cannot influence recipients' economic policies. Case studies, published in the book *Aid and Reform in Africa* (Devarajan, Dollar and Holmgren, 2001) and carried out on the initiative of the World Bank, reveal that, in many instances, aid had indeed influenced the countries' economic policy. If such is the case, aid has a role to play in those

countries where there is a particular need to improve economic policy. Thus, in the above-mentioned study by Chauvet and Guillaumont, aid effectiveness appears much more effective if the present policy is "good" and the former policy was bad and thus perfectible.

The fact that the analyses of selectivity retain only good economic policy or good governance as a factor of aid effectiveness is thus the third limitation of these studies⁵.

Selectivity is meaningful only for discretionary aid

A difficult question is to determine which concept of aid is the most appropriate for assessing selectivity. The authors who have assessed aid selectivity have preferred to use the Official Development Assistance disbursements rather than the commitments, whereas a priori the latter represent the donors' intentions better than the disbursements (Dudley and Montmarquette, 1976), and more accurately reflect actual policy. The reason advanced for this is that, if commitments are durably higher than disbursements, this expresses a "tendency of certain donors to promise more than they can realistically deliver, or a failure to learn from history that certain recipients cannot absorb aid as fast as donors hope " (Roodman 2004, p.5).

Another point of discussion is whether the gross or net flows of aid should be considered. Whereas Dollar and Levin refer to the gross disbursements, Roodman chooses the net transfers, i.e. he deducts the whole debt service (principal and interests) from gross aid, because net transfers are a better measurement of the cost for the donors and the benefit for the receivers. Roodman's choice is related to his objective: to establish an indicator of donor performance taking account of both aid volume and aid quality. The question of whether to use gross or net aid is related to the treatment of debt cancellations. Should one exclude from aid flows the share attributable to the debt cancellations, as these relate to loans granted beforehand and generally result from decisions taken on the international scene? Given the importance of debt cancellations in development aid, their inclusion involves a risk of strong bias in the assessing the aid allocation of each donor. However, this bias is less significant if one considers the gross rather than the net flow of aid, as in Dollar and Levin's paper, since, unlike net

flows, gross flows are affected only by the cancellation of commercial debts $^{\!6}$.

A final question is whether development aid only should be considered, or if emergency aid should also be included (as Roodman does, unlike Dollar and Levin), since the latter should not be dissociated from development goals. However, the reasons for offering emergency aid are different from those for development aid and its allocation depends on specific, even random, events such as natural disasters or wars⁷.

In short, the current analyses of aid selectivity come up against three main limitations: the focus on a single objective for aid, the assumption that aid effectiveness with regard to economic growth depends exclusively or mainly on economic policy and institutions, and the measurement of aid which poorly reflects the discretionary choices of the donors.

In what follows, we will try to push back these limitations of the current studies on selectivity. We will show that the assessment of the various donors' aid selectivity, such as it was put forward by the *Global Monitoring Report* (2004), is largely modified when we take into account the different factors affecting aid effectiveness, and to a lesser extent when we consider that donors can legitimately have other goals that maximum poverty reduction. Moreover, in order to better focus on "discretionary" aid, we use, as do Dollar and Levin, gross disbursements rather than net transfers, considering that the former better represent the choices of aid allocation. For the same reason, but unlike these authors, we deduct the disbursements corresponding to debt cancellation, and, like them, we deduct emergency assistance from ODA (the Development Aid Committee's aggregate)⁸.

Three categories of selectivity measurement are successively presented for the year 2003, the last year for which data were available. The first, directly echoing the *Global Monitoring Report* (2004), uses only one criterion. The second, following Dollar and Levin, uses aid elasticities to the "virtuous" determinants of aid allocation. The third type of measurement, starting from Roodman's analysis, calculates an average profile of the recipients by donor. This third measurement makes it possible to introduce certain country-specific aid criteria.

3. Selectivity with regard to only one criterion: a dichotomic approach

Let us start quite simply by taking the graph in which the *Global Monitoring Report* 2004 (Chapter "Providing more and better aid"), summarises its analysis of the level and quality of the aid of the various bilateral donors. We then compare this with an alternate graph that is based on the distinction between the Least Developed Countries (LDCs) and the other developing countries (Guillaumont, 2004).

Selectivity based exclusively on the CPIA

As on some roman churches' tympana depicting the Last Judgement, the Global Monitoring Report 2004 divides aidrecipient countries into two equally-sized groups, on the sole basis of the CPIA: those with "good" policies and those with "bad" policies (or institutions). The graph locates each donor according to the volume of aid (per capita of the donor country) granted to both categories of recipients, represented along the axes (cf. Graph 1). The donors located below the bisectrix are indicated as having a low aid selectivity and conversely. It is the angle with respect to the horizontal axis that indicates the degree of selectivity, and not the distance from the diagonal, as an over-hasty reading of the graph might suggest. The further the donors are located from the origin, due to the significant volume of aid allocated, the more they visually deviate from the diagonal (e.g. France, who thus appears in a rather unenviable position...).

The position of the donors above or below the diagonal clearly depends on the cursor chosen to classify the recipient countries as either "good" or "bad". Here, the cursor is the median of the CPIA, which does not allow for a high degree of differentiation since a good number of countries are grouped around this median⁹. Although the *Global Monitoring Report 2004* acknowledges that it is normal to take into account shocks and post-conflict

situations in aid allocation, only the quality of the economic policy measured by the CPIA is visualised in the Graph 1. Far from emphasising the limits and relativity of Dollar and Levin's method, the authors of the Global Monitoring Report present the conclusions of the analysis (which they use as their starting point) in a simplified form with no apparent reserves¹⁰.

Selectivity based on the category of the Least Developed Countries (LDCs)

In order to illustrate the particular vision of aid selectivity given by the above graph, we replaced the CPIA median by the criterion of membership or not of the category of the Least Developed Countries (LDCs), officially defined by the United Nations to identify among the low income countries those suffering the most from structural handicaps to growth (cf. Graph 2). The choice of this criterion can be easily justified. The developed countries are committed to a target of 0.15% of their GNP as overseas development assistance (ODA) to this category of countries. The membership of developing countries to this category is governed by three criteria (United Nations, 2000): they have (i) a low level of income per capita, (ii) a low level of human capital or (iii) a high level of economic vulnerability. The level of human capital (Human Assets Index: HAI) is measured by two health indicators (child survival at age five and calorie intake per capita, expressed as a percentage of the needs) and two education indicators (adult literacy rate and secondary enrolment ratio). Economic vulnerability (Economic Vulnerability Index: EVI) is measured by several indicators, which have been recently refined: four indicators representing exposure to shocks (small population size, expressed in logarithms, remoteness from main world markets, the share of agriculture, forestry and fisheries in GDP, and concentration of goods exports), and three

indicators representing the size of the shocks (instability of goods and services exports, instability of agricultural production, percentage of the population displaced by natural disasters).

Each of these three criteria stands as a reason to support LDC's through aid allocation. There are two reasons for allocating aid according to a country's economic vulnerability. First, as seen above, structural vulnerability reinforces aid effectiveness and, second, it constitutes a structural handicap to growth that should be offset. The first reason is a principle of effectiveness and the second a principle of equity. The low level of human capital is also a handicap to growth, but probably not, at least in the immediate future, a factor of aid effectiveness. On the other hand, in the long run, the actions to promote human capital

most probably help to increase the absorptive capacity of aid and thus its effectiveness. The criterion of human capital is perfectly consistent with the Millennium Development Goals, as is the income per capita criterion, which reflects the extent of poverty.

Comparison of the two criteria

If the position of the most virtuous donors (Denmark, Luxembourg, the Netherlands, Norway, Sweden) is barely modified, it is not the same for the countries closer to the diagonal: thus Japan passes below the diagonal, whereas France moves above it. The change is most evident for the case of France, reflecting the fact that, compared to other donors, France gives more weight in aid allocation to growth handicaps than to economic policy or governance, at least as it is expressed in the CPIA.

4. Selectivity measured by aid elasticities from a model of geographical allocation

Here we follow the method used by Dollar and Levin, and we analyse the consequences of using different criteria to measure multilateral and bilateral donors' selectivity. It is unfortunately impossible to reproduce Dollar and Levin's results, since the CPIA remains confidential, although it is used in an official World Bank and IMF report to assess donors' behaviour. Hence, we took Kaufman and Kraay's governance index (also used by Roodman) instead of the CPIA.

Estimating four alternative functions of aid allocation

For each donor, we considered aid per capita allocated in 2003¹¹ to developing countries as a function of their per capita GDP and alternatively of three other variables, namely Kaufman and Kraay's indicator of governance (KKI), the revised index of economic vulnerability (EVI) and the index of human capital (HAI). The last two indices are calculated by the United Nations' Committee for Development Policy (CDP) in order to identify the LDCs12. All the variables are expressed in logarithms so as to obtain elasticities¹³. The use of the indicator of governance (KKI) makes it possible to establish an index of selectivity in the Dollar-Levin fashion, which we named "focused on governance". The use of the second indicator (EVI) is consistent with the work of Guillaumont and Chauvet and leads to a selectivity index "focused on vulnerability". The use of the third indicator (HAI) refers more directly to the Millennium Development Goals. Each index of selectivity is the simple average of aid elasticities (expressed according to the expected sign)14 with regard to the per capita GDP and to the second indicator selected, as done by Dollar and Levin for the two elasticities they estimated (with regard to the per capita GDP and the CPIA). In order to obtain a composite indicator of selectivity, we then simultaneously estimated the elasticities with regard to the four variables (GDP per capita, EVI, HAI, KKI)¹⁵.

A radically changed ranking of donors

It appears clearly that donor ranking changes dramatically from one indicator to the other in Table 1, which gives the results for each donor and in Table 2, which presents a synthetic view of the differences in ranking. First of all, let us compare Dollar and Levin's ranking with those which take into account the two growth handicaps, resulting from vulnerability to external shocks or from weak human capital. The various United Nations agencies, as do bilateral donors such as Portugal, France and, to a lesser degree, Ireland, Spain and Italy-which are among the least selective donors in the canonical meaning—go up appreciably in the ranking based on the level of the human capital (HAI). The same change appears again for Portugal and United Nations agencies, as well as for Greece and the Development Banks, with the ranking based on vulnerability. If we now consider the ranking established with the composite or global selectivity index, the inversion of ranking is particularly striking for the United Nations agencies, which gain 27 to 5 ranks and for Portugal (ranked 31st out of 42 donors by Dollar and Levin), which becomes 6th and first of the bilateral donors), whereas France gains only two ranks (30th instead of 32nd out of 42). On the contrary, the United Kingdom goes down sharply (minus 35 ranks), as do Austria (minus 30 ranks), and Sweden (minus 28 ranks), due to little weight these countries give to the level of human capital and recipients' vulnerability in their aid allocation. This is also the case, but to a lesser extent, for Norway, Finland, Denmark and the United States. On the other hand, IDA as well as the IMF maintains a very good ranking.

Moreover, we note that the two criteria intended to represent the recipient countries' "good behaviour" (the CPIA and the Kaufmann and Kraay's indicator of governance) give differing results for several countries. This

is particularly the case of United Nations agencies and Development Banks, as well as Australia, Japan and the United States, whose ranking significantly improves when one refers to the second indicator. The losers are mainly Austria, Belgium, Sweden, Portugal and the United Kingdom. This comparison reinforces the feeling that the assessments related to policy and governance are relatively subjective.

5. Selectivity measured from an average profile of recipient countries

The advantage of the second method now used is to not rely on an econometric estimation (prone to criticism) of the determinants of each donor's aid allocation. This method approaches the one used by McGillivray and Roodman. However, unlike them, we do not calculate a value of aid adjusted by the quality of the allocation. We are directly interested in aid selectivity. We calculate, therefore, an "average profile" of the aid recipients of each donor, weighted by the proportion of its aid allocated to each country. This average profile can be calculated from as many receiver's characteristics as one wishes. This method offers one significant advantage compared to the selectivity approach: each selectivity criterion included in the average profile is independent from the other criteria, while the elasticity approach measures partial elasticities which depend on the level of the other variables.

An average profile of aid recipients of each donor according to four criteria

We here keep the four indicators mentioned in the previous section and used to measure selectivity by elasticities, namely the level of income (GDP per capita), the quality of the governance (Kaufman and Kraay's index), the vulnerability (EVI) and the level of human capital (HAI). For each donor $_{i}$, we calculate an average per capita GDP* of its aid receivers, weighted by the share of its aid to each recipient country $_{j}$ in its total assistance, as well as an average HAI*, an average EVI* and an average KKI*, weighted in the same manner:

$$w_{ij} = A_{ij} / A_j$$

$$GDP^*_i = S \ w_{ii} \cdot GDP_i$$

$$HAI_{i}^{*} = S w_{ij} \cdot HAI_{j}$$

$$EVI_{i}^{*} = S w_{ii} \cdot EVI_{i}$$

$$KKI*_i = S w_{ij} \cdot KKI_j$$

To give an equal weight to each component, GDP, EVI, HAI and KKI are calibrated on a 0 to 100 scale. Furthermore, we reversed GDP and HAI, in order to have the four components evolve in the same direction. The average profile of each donor's recipients is then given by the sum of these four components. This gives an indicator of aid selectivity and makes it possible to rank the donors.

$$I_i = S (GDP_i^* HAI_i^* EVI_i^* KKI_i^*)$$

So that a higher index I for donor i means that, compared to the other donors, donor i allocates its aid to countries either poorer, or more vulnerable, or with a better governance, or with a lower human capital, or a combination of these four characteristics. It is thus possible to rank the donors according to this index of aid selectivity (Table 3).

The ranking thus obtained is relatively close to that obtained from elasticities (Table 1). However, the ranking improves significantly for some countries, such as the United Kingdom, Sweden, Spain and Germany, and obviously worsens for others, like Greece, New Zealand and Switzerland, as well as IDA and IMF, who nevertheless preserve a good ranking (respectively 9th and 13th). These differences in results reinforce the doubts previously expressed about the elasticity method¹⁶.

From the same Table 3, one can clearly see the preferred criteria of each donor. For example, compared to the whole set of donors, the World Bank (through IDA) and the IMF support—by virtue of their mandate—the low-income countries. Moreover, it is worth noting that the World Bank considers "good governance" to be an important criterion, which is less the case of the IMF¹⁷, even less the case of the United Nations. Among bilateral donors, Japan, Denmark, Spain and Luxembourg are the most attached to governance. France focuses more on the level of poverty—measured by the per capita GDP—and on the level of human capital (HAI) than on governance or vulnerability, while the European Commission, and even more the United States, do not seem to be very sensitive to any of the four criteria.

Taking specific donor preferences into account

We previously underlined that assessing selectivity should take into account the fact that bilateral donors may logically have preferences for certain countries, mainly due to historical or cultural ties or because they feel that they have a special responsibility with regard to post-conflict countries. We thus consider that the former colonial powers (France, the Netherlands, Portugal and the United Kingdom) may understandably give relatively more aid to their former colonies (in a proportion fixed arbitrarily at 20%). We alternatively consider the possibility of a preference given in the same proportion of 20% — by donors to countries that share their language. This can be justified by the donors' strategy of defending a minority language by promoting the economic development of the countries speaking this language considered as a common public good. This leads us to identify from among the aid recipients those using the Spanish, Portuguese or French language. However, we do not consider that the United Kingdom or the United States could share the same concern of defending the use of English... Finally and again independently, we adjusted the profile of the aid recipients to take account (in the same proportion of 20%) of a possible post-conflict situation¹⁸.

The construction of the indicator adjusted for the preference 19 given to former colonies consisted in multiplying by 1.2 each of the four elements (w_{ij} * GDP $_i$; w_{ij}

* HAl_i ; w_{ij} * EVI_i ; w_{ij} * KKI_i) when the donor $_i$ allocates aid to a receiver $_j$ which is a former colony. The same was done independently for the indicator adjusted for linguistic preference, then for the preference given to the countries in a post conflict situation, without any distinction between the donors for this latter preference (Tables 4 to 6). This adjustment improves the ranking of the countries likely to have specific preferences all the more since they are selective with regard to other criteria in allocating their aid to former colonies or countries sharing the same language.

Not surprisingly, the new ranking shows the former colonial powers—particularly Portugal, the United Kingdom and France—in a better position (Table 4). A similar increase in the ranking occurs when linguistic preference is taken into account. Thus, Portugal, which gives a priority to Portuguese-speaking countries, France, Belgium and Canada (but not Switzerland), which give some preference to French-speaking countries, and Spain have a better ranking (Table 5). The adjustment carried out in Table 6 for the countries in a post-conflict situation also modifies the ranking, which mainly improves the position of Belgium, Finland and Sweden, and lowers the position of IDA and IMF.

We have tested the sensitivity of the results by using an adjustment coefficient of 1.1 instead of 1.2. Following the adjustment for former colonies or linguistic preferences, Portugal stays at the first rank (versus 7th rank without adjustment) among bilateral donors, Belgium is now to the 5th and 6th ranks instead of 4th with 1.2 adjustment (versus 5th without adjustment). France is at the 10th and 11th ranks instead of 7th (versus 13th without adjustment), United Kingdom, for the former colonies adjustment, is now at the 4th rank instead of the 3rd (versus 8th rank without adjustment). These results show that even a small adjustment coefficient may change significantly the ranking of the donors.

Conclusion

This paper has argued that there is a rationale to distinguishing global aid selectivity and donor specific selectivity and draws some conclusions for both.

First the definition of optimal allocation of total development aid, measured for all the donors, raises some problems which have not been appropriately addressed in the literature. It is still necessary for the international donor community to agree on satisfactory criteria for aid allocation. Several different criteria will necessarily have to be used given the complex relationship between development aid and poverty reduction, as underlined by the academic literature. It seems, however, that an agreement should be easily reached on the four criteria that we have used: two poverty-related criteria (per capita income and the level of human capital) and two criteria corresponding to the likely factors of aid effectiveness (governance and economic vulnerability). Agreement on the criteria not yet adopted by the canonical vision of aid selectivity (human capital and vulnerability) could be facilitated by the existence of the two indicators endorsed by the United Nations for the identification of the Least Developed Countries (HAI and EVI).

Second, based on this analysis, it seems debatable to apply uniform criteria in order to assess the selectivity of the various bilateral aids, since donors legitimately have particular preferences due to specific solidarities and a comparative advantage in assistance to certain countries. Moreover, a donor's selectivity can logically aim at compensating for different selectivity preferences of other donors. If one thus wants to compare the aid selectivity of developed countries, it may be advisable to seek a consensus on how to take into account particular but legitimate preferences of some bilateral donors, at the same time as one applies common criteria. We have outlined a way of doing this in the last section of this paper.

The scientific issue still to be addressed is the design of a model that will make it possible to determine optimal aid allocation using multiple criteria. Indeed Collier and Dollar's model is relatively simple insofar as it is based on a clear objective (maximum reduction of the number of poor) and, also, allocation is based on only two criteria (the initial level of monetary poverty and the quality of economic policy expected to impact aid effectiveness by promoting growth). The principle of simulation is then to equalise across recipient countries the marginal contribution of aid to reducing the number of poor. This model, however, does not allow the structural handicaps of the recipient countries to be taken into account simultaneously. Vulnerability could be introduced into this model as it increases aid effectiveness by promoting growth (as good economic policy), but it is not the same for the weakness of human capital. In order that aid be allocated according to both the structural handicaps to be offset and the characteristics of recipient countries which condition aid's effectiveness, it would be advisable to design a model based on an objective other than that of Collier and Dollar.

Once a desirable allocation of total development aid has been determined, each international institution and each bilateral donor would have the responsibility of indicating the share of aid which each recipient country that it wishes to finance should ideally receive. This should be done with each donor country clearly stating its own criteria of selectivity. The share attributed to each donor should be negotiated with all the other donors, in order to explicitly take into account the donors' interdependence in global aid allocation. One could consider that the international institutions have the responsibility to give aid in priority to those countries for which the normal quota of total assistance had not been spontaneously covered by the bilateral donors. This procedure would have the advantage of allowing a better foreseeability of aid flows for each recipient and less donor fragmentation in each of the countries.

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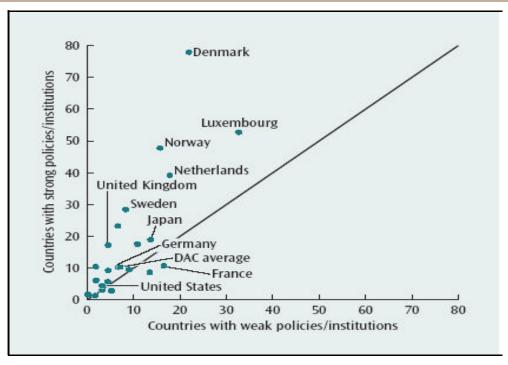
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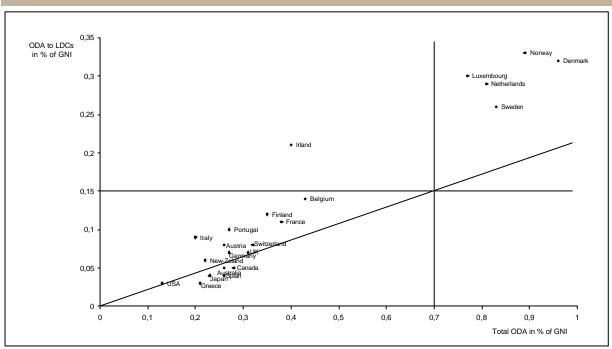
Graphs and Tables

Graph 1. Distribution of DAC donors' aid according to CPIA Aid per bilateral donor country's capita to low-income countries, average for 1999-2002 (\$ per capita)



Source: GMR, 2004

Graph 2. Preferential Distribution of DAC donors' aid to LDCs



Source: DAC and CERDI's estimates.

Table 1. Selectivity according to elasticities estimated by an allocation model 42 bilateral and multilateral donors, 2003

Global model			Selectivity	focusing	Selectivity	/ focusing	Se	electivity focusing		
Global filodel	on MDGs	3	on vulne	rability	on gover	rnance				
		Difference		Difference		Difference	Differenc		e Rank	
	Rank (1)	w/ D&L	Rank (1)	w/ D&L	Rank (1)	w/ D&L	Rank (1)	w/ D&L	withii the 22 bilatera donors	
20 bilateral dono	rs:									
Australia	34	-9	23	2	14	11	24	1	7	
Austria	30	-20	37	-27	35	-25	39	-29	19	
Belgium	4	9	22	-9	36	-23	23	-10	(
Canada	21	2	33	-10	26	-3	25	-2	8	
Denmark	15	-13	24	-22	5	-3	16	-14		
Finland	28	-16	34	-22	19	-7	29	-17	1	
France	11	21	31	1	37	-5	30	2	1	
Germany	27	-7	41	-21	27	-7	41	-21	2	
Greece	41	-5	25	11	38	-2	32	4	1	
Ireland	5	14	13	6	23	-4	11	8		
Italy	22	5	30	-3	40	-13	36	-9	1	
Japan	39	-17	40	-18	18	4	40	-18	2	
Luxembourg	17	1	14	4	28	-10	12	6		
Netherlands	16	-9	29	-22	11	-4	28	-21	1	
New Zealand	33	-3	15	15	32	-2	20	10		
Norway	18	-10	26	-18	15	-7	27	-19	1	
Portugal	8	23	4	27	41	-10	6	25		
Spain	31	11	42	0	39	3	42	0	2	
Sweden	25	-20	27	-22	22	-17	33	-28	1	
Switzerland	20	1	32	-11	21	0	26	-5		
United Kingdom	32	-28	36	-32	12	-8	38	-34	1	
United States	29	-5	38	-14	20	4	37	-13	1	

D&L: Dollar and Levine, 2004

Table 1. cont'd

	Selectivi on M	ty focusing IDGs		rity focusing Inerability		vity focusing overnance		Global model			
	Rank (1)	Difference w/ D&L	Rank (1) & Levin	Difference w/ D&L	Rank (1)	Difference w/ D&L & Levin	Rank (1)	Difference w/ D&L 20	Rank within the & Levin multilateral donors		
20 multilateral don	ors:										
AfDF	1	8	1	8	4	5	1	8	1		
Arab Agencies	7	10	6	11	2	15	2	15	2		
AsDF	42	-8	11	23	16	18	18	16	14		
CarDB	36	-10	5	21	33	-7	8	18	7		
EBRD	40	-12	8	20	29	-1	10	18	9		
EC	19	-3	19	-3	13	3	17	-1	13		
GEF	38	-24	39	-25	25	-11	34	-20	19		
IDA	3	-2	2	-1	1	0	3	-2	3		
IDB Sp.Fund	37	0	18	19	42	-5	22	15	17		
IFAD	13	-2	12	-1	3	8	5	6	5		
Nordic Dev.Fund	26	-20	7	-1	7	-1	9	-3	8		
Other UN	14	19	28	5	34	-1	31	2	18		
SAF+ESAF+PRGF											
(IMF)	6	-3	3	0	8	-5	4	-1	4		
UNDP	12	17	16	13	9	20	14	15	11		
UNFPA	10	29	21	18	10	29	19	20	15		
UNHCR	24	17	35	6	31	10	35	6	20		
UNICEF	9	29	20	18	17	21	21	17	16		
UNRWA	35	5	9	31	30	10	13	27	10		
UNTA	23	12	17	18	24	11	15	20	12		
WFP	2	13	10	5	6	9	7	8	6		
Average of Absolu	te										
value of difference	(42 donors) =	11.7		13.4		8.6		12.7			
(1) Rank within the 4 D&L: Dollar and Lev		multilateral dono	rs								

Table 2. Summary impact of changing the measurement of aid selectivity: Average absolute value of rank differences for 42 donors (multilateral & bilateral) and for only 22 bilateral donors or 20 multilateral donors, 2003

	All 42 donors	Bilateral only
between Dollar-Levin (2004) indices and other elasticity estimates :		
Income and other governance index (KKI)	8.7	3.8
Income and vulnerability (EVI)	13.5	7.63
Income and MDGs (HAI)	11.8	6.09
Global model	12.8	7.27
between index based on global allocation model estimates and recipient average profile index between unadjusted recipient average profile index and index adjusted for:	7.25	3.63
Former colonies		1.72
Same language		2.27
Post conflict	1.86	1.09
D&L: Dollar and Levine, 2004		

Table 3. Average profile of recipient countries for each donor

		ctivity focusing		Selectivity focusing on MDGs		ity focusing erability		ity focusing ernance		Global model		
	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (2)	
		D&L		D&L			D&L		D&L	D&L	among Bil.	
22 bilateral donors:												
Australia	21	4	30	-5	10	15	16	9	19	6	6	
Austria	40	-30	31	-21	36	-26	28	-18	37	-27	19	
Belgium	5	8	5	8	9	4	42	-29	18	-5	5	
Canada	28	-5	16	7	21	2	29	-6	24	-1	9	
Denmark	8	-6	14	-12	13	-11	8	-6	6	-4	2	
Finland	33	-21	20	-8	27	-15	14	-2	26	-14	11	
France	18	14	27	5	30	2	37	-5	29	3	13	
Germany	24	-4	32	-12	35	-15	22	-2	32	-12	16	
Greece	42	-6	41	-5	41	-5	43	-7	43	-7	22	
Ireland	7	12	3	16	6	13	18	1	3	16	1	
Italy	32	-5	24	3	26	1	41	-14	35	-8	18	
Japan	25	-3	38	-16	39	-17	5	17	34	-12	17	
Luxembourg	16	2	25	-7	8	10	10	8	8	10	4	
Netherlands	20	-13	19	-12	24	-17	26	-19	22	-15	7	
New Zealand	41	-11	36	-6	12	18	40	-10	39	-9	20	
Norway	35	-27	15	-7	23	-15	31	-23	27	-19	12	
Portugal	34	-3	9	22	2	29	33	-2	7	24	3	
Spain	31	11	35	7	29	13	9	33	31	11	15	
Sweden	27	-22	21	-16	22	-17	25	-20	25	-20	10	
Switzerland	30	-9	28	-7	33	-12	24	-3	30	-9	14	
United Kingdom	17	-13	17	-13	32	-28	21	-17	23	-19	8	
United States	39	-15	33	-9	37	-13	38	-14	41	-17	21	

⁽¹⁾ Rank within the 42 bilateral and multilateral donors

⁽²⁾ Rank within the 22 bilateral donors

D&L: Dollar and Levine, 2004

Table 4. Average profile of recipient countries for each bilateral donor, adjusted for the preference given to former colonies 20

	on p	overty	on N	/IDGs	on vu	nerability	on go	vernance		
	Rank (1)	Diff. With								
		D&L								
22 bilateral donors:										
Australia	9	7	15	1	5	11	8	8	8	8
Austria	20	-14	16	-10	19	-13	15	-9	19	-13
Belgium	1	7	1	7	2	6	21	-13	4	4
Canada	13	1	7	7	8	6	16	-2	10	4
Denmark	5	-4	5	-4	7	-6	5	-4	5	-4
Finland	17	-10	10	-3	15	-8	7	0	12	-5
France	3	17	8	12	12	8	14	6	7	13
Germany	10	1	17	-6	18	-7	10	1	16	-5
Greece	22	-1	22	-1	22	-1	22	-1	22	-1
Ireland	4	6	2	8	3	7	9	1	2	8
Italy	16	1	12	5	13	4	20	-3	18	-1
Japan	11	2	21	-8	21	-8	3	10	17	-4
Luxembourg	7	2	13	-4	4	5	6	3	6	3
Netherlands	8	-4	9	-5	10	-6	12	-8	9	-5
New Zealand	21	-3	20	-2	6	12	19	-1	20	-2
Norway	18	-13	6	-1	11	-6	17	-12	13	-8
Portugal	6	13	3	16	1	18	2	17	1	18
Spain	15	7	19	3	16	6	4	18	15	7
Sweden	12	-9	11	-8	9	-6	13	-10	11	-8
Switzerland	14	-2	14	-2	17	-5	11	1	14	-2
United Kingdom	2	0	4	-2	14	-12	1	1	3	-1
United States	19	-4	18	-3	20	-5	18	-3	21	-6

²⁰. The four indicators are multiplied by 1.2 when a former colonial power (France, UK, Spain, Italy, Netherlands, Portugal and Belgium) allocates aid to its former colonies.

Table 5. Average profile of recipient countries for each bilateral donor, adjusted for linguistic preference ²¹

	Selectiv	rity focusing	Selectivi	ity focusing	Select	vity focusing	Selectiv	vity focusing	Global	model
	on po	overty	on N	1DGs	on vı	ılnerability	on go	vernance		
	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With
		D&L		D&L		D&L		D&L		D&L
2 bilateral donors:										
ustralia	9	7	15	1	5	11	7	9	8	8
ustria	19	-13	16	-10	19	-13	15	-9	19	-13
elgium	1	7	1	7	2	6	21	-13	4	4
anada	11	3	4	10	8	6	12	2	6	8
enmark	5	-4	5	-4	7	-6	5	-4	5	-4
inland	17	-10	11	-4	15	-8	6	1	13	-6
rance	3	17	9	11	13	7	17	3	7	13
Sermany	12	-1	17	-6	18	-7	11	0	16	-5
Greece	21	0	22	-1	22	-1	22	-1	22	-1
eland	4	6	2	8	4	6	9	1	2	8
aly	16	1	13	4	14	3	20	-3	18	-1
apan	13	0	21	-8	21	-8	4	9	17	-4
uxembourg	2	7	7	2	3	6	3	6	3	6
letherlands	8	-4	10	-6	12	-8	14	-10	10	-6
lew Zealand	20	-2	20	-2	6	12	19	-1	20	-2
lorway	18	-13	6	-1	11	-6	16	-11	15	-10
ortugal	6	13	3	16	1	18	2	17	1	18
pain	10	12	19	3	9	13	1	21	9	13
weden	15	-12	12	-9	10	-7	13	-10	12	-9
witzerland	14	-2	14	-2	16	-4	8	4	14	-2
Inited Kingdom	7	-5	8	-6	17	-15	10	-8	11	-9
Inited States	22	-7	18	-3	20	-5	18	-3	21	-6
&L: Dollar and Levino	e, 2004.	(1) Rank withi	in the 22 bilateral donor	rs						

²¹ The four indicators are multiplied by 1.2 when:

^{1.} France, Canada, Belgium, Luxembourg and Switzerland disburse ODA towards countries with more than 33% of the children are enrolled in French-speaking schools

^{2.} Spain disburses aid towards countries with Spanish as official language.

^{3.} Portugal disburses aid towards countries with Portuguese as official language.

Table 6. Average profile of recipient countries for each donor, adjusted for post conflict countries

	Selectiv	ity focusing	Selectiv	ity focusing	Selectiv	ity focusing	Selecti	vity focusing		Global mo	del
	on p	overty	on M	IDGs	On vul	nerability	on go	overnance			
	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With R	ank (1)	Diff. With	Rank (2)
		D&L		D&L		D&L		D&L	D&L		among Bil.
22 bilateral donors:											
Australia	21	4	31	-6	11	14	22	3	24	1	10
Austria	40	-30	30	-20	36	-26	20	-10	36	-26	19
Belgium	1	12	4	9	4	9	42	-29	8	5	4
Canada	27	-4	15	8	18	5	28	-5	22	1	9
Denmark	9	-7	17	-15	13	-11	9	-7	6	-4	2
Finland	31	-19	16	-4	26	-14	4	8	19	-7	6
France	17	15	27	5	30	2	39	-7	30	2	14
Germany	23	-3	32	-12	35	-15	25	-5	31	-11	15
Greece	42	-6	41	-5	41	-5	43	-7	43	-7	22
Ireland	6	13	3	16	5	14	12	7	2	17	1
Italy	29	-2	20	7	25	2	41	-14	33	-6	17
Japan	26	-4	38	-16	39	-17	7	15	35	-13	18
Luxembourg	16	2	25	-7	9	9	6	12	10	8	5
Netherlands	20	-13	21	-14	24	-17	29	-22	21	-14	8
New Zealand	41	-11	36	-6	12	18	40	-10	38	-8	20
Norway	34	-26	14	-6	23	-15	27	-19	26	-18	12
Portugal	32	-1	9	22	2	29	30	1	7	24	3
Spain	35	7	35	7	29	13	10	32	32	10	16
Sweden	22	-17	18	-13	21	-16	21	-16	20	-15	7
Switzerland	30	-9	28	-7	33	-12	18	3	29	-8	13
United Kingdom	18	-14	19	-15	31	-27	24	-20	25	-21	11
United States	39	-15	33	-9	37	-13	38	-14	39	-15	21

⁽¹⁾ Rank within the 42 bilateral and multilateral donors

⁽²⁾ Rank within the 22 bilateral donors

D & L: Dollar and Levin, 2004.

Table 6. Cont'd

		Selectivit	y focusing Selectivit		rity focusing	Selectivi	ty focusing	Selectivi	ty focusing	Glo	Global model	
	on p	overty	on	MDGs	on vulr	erability	on gov	ernance				
	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank (1)	Diff. With	Rank(3)	
		D&L		D&L		D&L		D&L			among	
											Bil.	
20 multilateral donors:												
AfDF	2	7	2	7	3	6	11	-2	1	8	1	
Arab Agencies	11	6	7	10	8	9	13	4	4	13	3	
AsDF	13	21	29	5	19	15	14	20	18	16	13	
CarDB	33	-7	43	-17	1	25	1	25	27	-1	15	
EBRD	36	-8	42	-14	43	-15	37	-9	42	-14	20	
EC	37	-21	23	-7	27	-11	19	-3	28	-12	16	
GEF	24	-10	39	-25	38	-24	3	11	34	-20	17	
IDA	5	-4	22	-21	28	-27	17	-16	13	-12	8	
IDB Sp.Fund	10	27	34	3	6	31	8	29	16	21	11	
IFAD	7	4	24	-13	22	-11	15	-4	12	-1	7	
Nordic Dev.Fund	3	3	11	-5	7	-1	2	4	3	3	2	
Other UN	38	-5	37	-4	32	1	35	-2	37	4	18	
SAF+ESAF+PRGF(IMF)	4	-1	13	-10	34	-31	33	-30	17	-14	12	
UNDP	12	17	8	21	17	12	31	-2	11	18	6	
UNFPA	14	25	12	27	16	23	16	23	9	30	5	
UNHCR	15	26	10	31	20	21	34	7	15	26	10	
UNICEF	19	19	6	32	14	24	36	2	14	24	9	
UNRWA	43	-3	1	39	40	0	26	14	40	0	19	
UNTA	28	7	26	9	15	20	23	12	23	12	14	
WFP	8	7	5	10	10	5	32	-17	5	10	4	
(0) D. I. W. H. O. W. I.												

⁽³⁾ Rank within the 20 multilateral donors

The four indicators are multiplied by 1.2 for disbursements to post-conflict countries (Afghanistan, Bosnia-Herzegovina, Cambodia, Central African Republic, Congo Dem. Rep., Croatia, El Salvador, Georgia, Guatemala, Haiti, Mozambique, Namibia, Rwanda, Serbia & Montenegro, Sierra Leone, Somalia, Tajikistan).

D & L: Dollar and Levin, 2004.

Annex 1

Acronyms

AfDF African Development Fund (African Development Bank)

AsDF Asian Development Fund
CarDB Caribbean Development Bank

EBRD European Bank for Reconstruction & Development

EC European Commission
GEF Global Environment Facility

IDA International Development AssociationIDB Fund Inter American Development Fund

IFAD International Fund for Agricultural Development

SAF Structural Adjustment Facility

ESAF Enhanced Structural Adjustment Facility
PRGF Poverty Reduction & Growth Facility

IMF International Monetary Fund

UNDP United Nations Development Program

UNFPA United Nations Fund for Population Activities
UNHCR United Nations High Commissioner for refugees

UNICEF United Nations Children's Fund

UNRWA United Nations Relief and Works Agency for Palestine Refugees in the Near East

UNTA United Nations Regular Program of Technical Assistance

WFP World Food Program

Annex 2

Definition of post-conflict countries

Our definition of post-conflict countries is based on the work of Paul Collier and Anke Hoeffler (2002 & 2004). A country is labeled post-conflict during the first four years after cessation of conflict. As in Dollar and Levine (2005), we focused on large conflicts, recognized by donors as requiring additional assistance. We therefore constrained the sample of pos-conflict countries to those which had UN peacekeeping operations around the time of the conflict's cessation.

The end date of a conflict was based on Collier and Hoeffler (2002) if available, or on Sambanis (2000) if not. Since both of the conflict databases end in 1999, for 2000-2002 we used the data on reached agreements for end of conflict from UN missions' background data. If a country reverted to conflict within the four years after the end of a previous conflict, the post-conflict status ended in the year of conflict resumption.

Recipient countries	Post confl. Years	UN Missions	End of conflict
Afghanistan	2002	UNAMA	March 2002
Bosnia-Herzegovina	1996-1999	UNMIBH	November 1995
Cambodia	992-1995	UNAMIC	October 1991
Central African Rep.	1997-2000	MINURCA	January 1997
Congo Dem.Rep. (Zaire)	2000-2002	MONUC	September 1999
Croatia	1995-1998	UNCRO	December 1994
El Salvador	1992-1995	ONUSAL	January 1992
Georgia	1994-1997	UNOMIG	December 1993
Guatemala	1997-2000	MINUGUA	December 1996
Haitia	1994-1995	UNMIH	September 1993
Mozambique	1993-1996	ONUMOZ	October 1992
Namibia	1992	UNTAG	December 1988
Rwanda	1995-1998	UNAMIR	July 1994
Serbia & Montenegro	1995-1998	UNPROFOR	December 1994
Sierra Leone	2000-2002	UNAMSIL	July 1999
Somalia	1992-1993	UNOSOM I	April 1992
Timor oriental	2000-2002	UNMISET	August 1999
a The normal four-year post-c	onflict period in these countries v	was cut short due to resumpt	ion of conflict.

Notes

- 1. Two other studies have dealt with global aid selectivity: Cogneau and Naudet (2004) and Llavador and Roemer (2001) have attempted to apply the principle of social equity by allocating aid to countries whose structural growth handicaps most undermine the utility provided by an effort or a similar quality of economic policy. These two studies however adopt Collier and Dollar's main idea of aid effectiveness depending on economic policy.
- 2. Kaufmann and Kraay's indicator is an aggregate including six dimensions: voice and accountability, political stability, government effectiveness, regulatory quality, rule of law, control of corruption. They are measured by a hundred variables from 24 different sources.
- 3. Cf. Amprou and Chauvet (2004) for a survey on these criticisms and their consequences for aid selectivity.
- 4. The CPIA is also used by Dollar and Levin (2004) in their study of aid selectivity
- 5. This point is emphasised in McGillivray (2003b). He proposes different criteria for aid selectivity: political stability, democracy, post-conflict reconstruction and economic reconstruction.
- 6. According to DAC guidelines, a cancellation of concessional debt (corresponding to an initial loan which had been included in ODA when it was disbursed) is not included in gross ODA, except for the present value of the interest payment reduction that this cancellation produces. However, the cancellation of a commercial debt is added to gross ODA, since the cancellation takes the form of an automatic repayment of its reimbursements to the debtor country.
- 7. In 2003 for instance debt cancellation plus emergency aid represented 40% of ODA gross disbursements to Sub-Saharan Africa. (Source OECD)
- 8. DAC's ODA statistics include emergency assistance.
- 9. Berg (2003, p.22) already pointed out this limit for Collier and Dollar's study.
- 10. The use of Dollar and Levin's work by the Global Monitoring Report 2005 is less caricatural, since the recipient countries are classified according to their CPIA in three (instead of two) groups, so that Graph 1 is replaced by a diagram. However the tonality remains the same.
- 11. Last year available in terms of statistics.
- 12. We here use the EVI as revised by the CDP in March 2005 and calculated from data as available for the last review of the list of LDCs in 2003.
- 13. The dependent variable is per capita aid (for each recipient country) instead of global aid. We do not introduce the population size into the explanatory variables, since it is one of the components of the EVI index (a small population is considered as a factor of greater vulnerability to external shocks). This approach ends up imposing a unitary elasticity of aid to population.
- 14. For good selectivity, we expect a negative coefficient for the per capita income and the human assets index (HAI) and a positive coefficient for the governance indicator and the vulnerability indicator (EVI). To compute the average of elasticities, the sign of the first two elasticities has been reversed.

- 15. This method raises some technical difficulties (Guillaumont, 2004b and Roodman, 2004). When a country receives no aid from a donor, it is not possible to keep a zero, since log of zero tends to infinite. In this case, Dollar and Levin replace the zero by a low value of aid (\$10.000). This arbitrary choice has an influence on the value of elasticities. A better solution would have been to estimate a Tobit model as done by Berthelemy and Tichit, 2004 and Canavire et al., 2005). Nonetheless, we have kept to Dollar and Levin's method, since our objective is to compare our results with theirs. Another difficulty comes from the elasticities that are often not significantly different from zero. Even though the estimated value of elasticities is not a priori more open to critique than a zero value, this casts some doubts on the validity of the method or at least on the signification of the differences in the ranking.
- 16. Cf. Note 11 above.
- 17. Here are only considered the Structural Adjustment Facility and the Enhanced Structural Adjustment Facility, and the Facility for Growth and Poverty Reduction.
- 18. Unlike cultural preferences, which concern only bilateral donors, preference for post-conflict countries may also concern multilateral donors. Cf. Annex 2 for a definition of post-conflict countries.
- 19. The selectivity index has been adjusted to take into account the three following elements:
 - 1. France, Canada, Belgium, Luxembourg and Switzerland disburse ODA towards countries with more than 33% of children enrolled in French-speaking schools.
 - 2. Spain disburses aid towards countries with Spanish as official language.
 - 3. Portugal disburses aid towards countries with Portuguese as official language.