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GEARING MACROECONOMIC POLICIES TO MANAGE LARGE INFLOWS OF ODA: THE IMPLICATIONS FOR HIV/AIDS PROGRAMMES*

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ABSTRACT

This paper examines how macroeconomic policies can be managed to accommodate a large inflow of foreign aid to combat the HIV/AIDS epidemic and still maintain macroeconomic stability. Because of the daunting scale of this epidemic, funds need to be disbursed urgently in order to contain its spread, yet some economists worry that rapidly scaling up foreign assistance for this purpose will cause inflation and appreciation of the real exchange rate.

If such effects occur, they could impair a country's international competitiveness and endanger its growth prospects. However, this paper maintains that such effects can be minimised if governments and central banks coordinate fiscal, monetary and exchange rate policies. If they do, they should be able to both 'spend' aid in order to finance larger government programmes and 'absorb' aid in order to import more real resources. Often, governments that receive foreign aid neither spend nor absorb it fully, defeating the basic purpose of development assistance. Because governments fear inflation, they are reluctant to finance a significant increase in spending on HIV/AIDS programmes even when the funding is available. Central banks are reluctant to sell the foreign currency they receive from HIV/AIDS related aid because they fear that such an action might appreciate the domestic currency. However, if aid-induced spending on HIV/AIDS programmes minimises the adverse impact of the epidemic on human capabilities, not only would it combat a grave human development crisis but also it could safeguard long-term economic growth.

Instead of adhering to restrictive macroeconomic policies, governments could target their increased spending on productivity enhancing public investment and central banks could amplify the flow of low-cost credit to stimulate private investment. If the real exchange rate does begin to appreciate, the central bank can implement means to manage its fluctuations in order to maintain competitiveness. Moreover, if a significant proportion of HIV/AIDS funds is used to directly finance the import of drugs and medical equipment that are not produced domestically (which is often the case), there is likely to be even less impact on inflation or appreciation of the exchange rate.

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1 INTRODUCTION: TACKLING HIV/AIDS AS A HUMAN DEVELOPMENT DISASTER

Globally, AIDS has killed more than 23 million people. In 2004 alone, more than 3 million people died, and nearly 5 million people became HIV-positive. An estimated 40 million people worldwide are now living with HIV and this number continues to grow. It rose from 35 million in 2001 to 38 million in 2003. Today the figure stands at close to 40 million. With an estimated 15,000 people contracting the virus each day, HIV has become a huge epidemic. At the rate of about 1.5 million a year, the number of HIV positive persons globally will be over 60 million by the Millennium Development Goals (MDGs) target year of 2015. While this is frightening, what is more disturbing is its distribution – more than 65 per cent of HIV positive persons live in sub-Saharan Africa, and 95 per cent of new infections occur in the developing world.

The HIV/AIDS epidemic globally, and in countries of sub-Saharan Africa in particular, is causing a large-scale human development crisis. Although AIDS is a slow killer, an estimated 4,000 people die of it every day, contributing to nearly 1.5 million deaths a year. Thus, the scale of this crisis requires nothing less than an emergency response of unprecedented proportions.

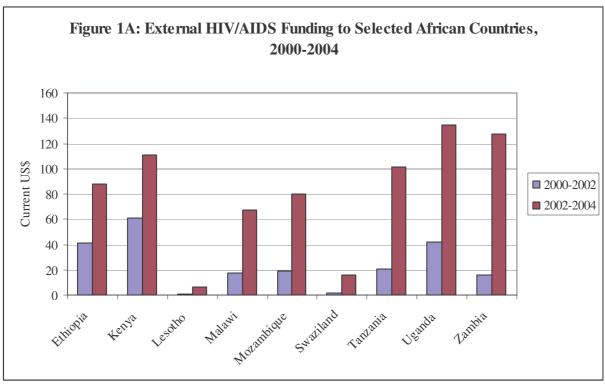
The impact of the epidemic can also be examined in economic terms. The full economic impact of HIV/AIDS in high prevalence countries will become apparent only in the long run. When a large number of children and working age adults become HIV positive, this effect directly reduces the supply of labour. It also seriously constrains the labour force participation of other members of the household who have to care for sick relatives. Through the adverse impacts on educational attainment and the strains on government expenditures, a high prevalence of HIV/AIDS will impair a country's long-term growth potential. Hence, unless this epidemic is tackled now, the long-run growth of countries with a high HIV/AIDS prevalence will be grievously impaired. (See Haacker, 2004).

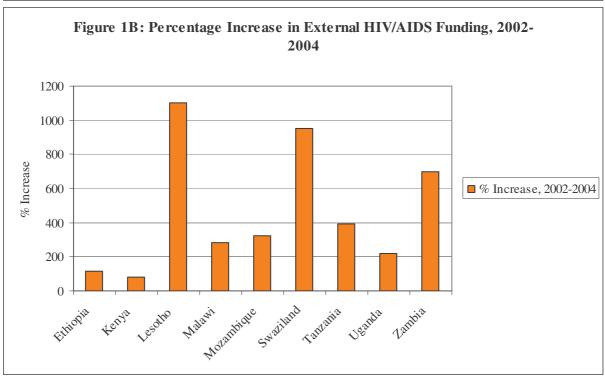
Thus, there is a vicious cycle: HIV/AIDS and the human development crisis that it precipitates adversely affect growth, and faltering growth increases poverty, which then heightens the risk of infection. As the rate of infection rises, there is a self-reinforcing cumulative circular causation of poverty and HIV/AIDS.

Therefore, whichever perspective – human development crisis or economic growth – one takes, there is an urgency in dealing with HIV/AIDS. The infection rate needs to be capped and then reversed. At the same time, 40 million HIV-positive persons need to be treated. The task is daunting, involving complex socio-cultural and economic challenges.

On the economic front, one burning issue is financing – how much is needed, what are the sources, and how to spend it. The latest UNAIDS estimates show that the cost of a comprehensive response to HIV/AIDS in low- and middle-income countries will rise from \$9.6 - \$11.3 billion in 2005 to \$14.1 - \$18.8 billion by 2007 (UNAIDS, 2005). In several countries, financing needs for HIV/AIDS programmes could rise to 10 per cent of GDP, putting enormous pressure on government budgets. Therefore, the financing of essential HIV/AIDS treatment and prevention programmes will require large aid inflows. The international community has already committed a large sum to support national efforts. For example, out of about \$6 billion spent globally on HIV/AIDS related programmes in 2004, close to \$3.7 billion came from international sources (OECD, 2005). This represented a near doubling of international efforts between 2002 and 2004.²

For many sub-Saharan African countries in which HIV/AIDS prevalence is very high, foreign aid has been the dominant source of funding. As can be seen from Figures 1A and 1B, HIV/AIDS related external funding increased significantly in these countries in just two years. In the case of Lesotho, for example, the increase was about 1,100 per cent.





Source: OECD (2005) as reported in Lewis (2005).

Because of this scaling up, donors have expressed concerns about these countries' ability to absorb such a large surge in aid flows. For example, they cite such problems as institutional weakness and the lack of critical complementary inputs such as skilled manpower. There are also other major concerns, such as the possibility of disincentive effects on governments' resolve to mobilise domestic resources and the vulnerability of these countries to the uncertainty of aid flows. A major concern that has recently received increased attention is the possibility of large aid-induced macroeconomic instability, such as higher inflation and real appreciation of the domestic currency (UN Millennium Project, 2005, pp. 239-240).³ One way of posing the question is: will the rise in inflation and real appreciation of the domestic currency be large enough to adversely affect long-term growth so that aid inflows become counter-productive?

This paper is a brief survey of the theories and the evidence related to the likelihood of aid-induced macroeconomic instability. In particular, the questions that it tries to address are:

- 1. To what extent can the utilisation of foreign assistance to combat HIV/AIDS cause macroeconomic instability to the detriment of long-term growth?
- 2. If there is a possibility of such instability, are there adequate policy instruments to mitigate it?
- 3. How can one *macroeconomically* track whether countries receiving foreign assistance are spending and absorbing it?
- 4. What should be the overall macroeconomic policy framework to achieve HIV/AIDS objectives without causing macroeconomic instability?

In answering the above questions, one should bear in mind that foreign aid is a transfer of resources to the recipient countries. In the standard foreign aid model, this transfer implies a widening of the trade gap, which could be accompanied by a real appreciation of the domestic currency. That is, foreign aid helps finance a larger trade gap caused by increased import demands, which are prompted by increased economic activity arising from aid-funded expenditures. Hence, some real appreciation is likely to be a by-product of the absorption of foreign aid. The real appreciation becomes problematic if it hinders export growth; that is, the trade gap widens also because of a significant reduction in exports. The key to prevent this syndrome from occurring is to offset the impact of real appreciation on international competitiveness by productivity enhancing public policies. In the short run, the government can also respond to this problem with such policies as export subsidies and exchange rate controls.

One condition under which foreign aid can be absorbed without the likelihood of real appreciation is commodity aid, wherein resources are transferred directly, or the entire aid is used to buy *non-competitive* imports, without bringing foreign currency into the recipient country. This is important to note since a large share of HIV/AIDS related foreign funding is likely to be used to buy essential drugs abroad, which will be transferred directly to HIV/AIDS affected countries. This is unlikely to have a significant adverse effect on the real exchange rate.

The rest of this paper elaborates on these points. It is organised as follows: Section II describes the rationale for foreign aid inflows and the nature of transfer mechanisms under fixed and flexible exchange rate systems; Section III provides a survey of the theoretical possibilities and empirical evidence for aid induced 'Dutch disease'; Section IV uses the

analytical framework recently developed within the International Monetary Fund to examine policy options for aid receiving countries; Section V draws policy implications for HIV/AIDS related aid inflows; and Section VI contains concluding remarks.

2 THE RATIONALE FOR FOREIGN AID

As is well known, the theoretical rationale for foreign aid (FA) is to fill the savings-investment and/or foreign exchange gaps: developing countries have a deficient level of domestic savings to finance a level of investment necessary to achieve their desired rates of economic growth, and/or a lack of foreign exchange reserves to acquire imported capital goods.⁶ The role of FA within this traditional 'two-gap' model can be shown by using the national income identity.

The national income or gross domestic product (Y) is equal to gross national expenditures, or the sum of consumption (C), government expenditure (G), investment (I) and net exports (X - M) ex post. That is,

$$Y = C + I + G + X - M \tag{1}$$

GDP is also equal to the sum of consumption (C), savings (S) and taxes (T), so that

$$Y = C + S + T \tag{2}$$

From (1) and (2), we get

$$S + T = I + G + X - M$$

Or, $I - [S + (T - G)] = M - X = F - J$ (3)

where T - G = government savings (fiscal surplus or deficit).

F - J = the difference between net capital inflows (F) and net factor payments abroad (J).⁷

Equation (3) states that $ex\ post$ the gap between investment (I) and total domestic savings (S+T-G) must be equal to the imports-exports gap. That is, if there is any shortfall in domestic savings (compared to investment), this must be met by net foreign savings (F-J) flowing into the country. Most low-income countries receive foreign aid (FA) as their main form of foreign savings.⁸

There is no reason for the two gaps to equal ex ante. Chenery and his associates argued that aid was more effective where the trade gap (M-X) or the foreign exchange gap (F-J) was larger ex ante. A binding or dominant trade gap (or foreign exchange gap) means that the country is unable to utilise its entire savings. That is, due to a shortage of critical imports, it cannot increase investment even when domestic savings are available. The country suffers from deficient demand (i.e., investment < savings) and has Keynesian type unemployment or underemployment.

Bacha (1990) extended the 2-gap model into a 3-gap model, wherein the fiscal gap (T-G) constrains private sector investment at a level below what available national savings would permit.

This derives from an assumed relationship between private investment (I_P) and public investment (I_G) as follows:

$$I_{P} = kI_{G} \tag{4}$$

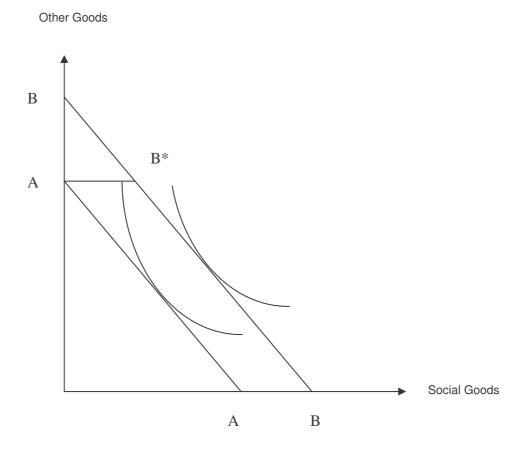
Where k > 0

Equation (4) recognises that in developing countries, government investment in social and economic infrastructure sets an upper limit for profitable private investment. The low level (or lack of) of fiscal surplus (T - G) in the recurrent budget (referred to as the primary surplus) limits public investment (I_G) and, according to equation (4), therefore limits private investment (I_P).

The government can finance its deficit by borrowing from the central bank. Government borrowing from the private sector is limited since the domestic capital market is very thin in most developing countries. Borrowing from the central bank (printing money) yields seigniorage (an inflation tax), through which unutilised private savings can be transferred to the government for public investment, which can, in turn, stimulate private investment. However, this method of financing public investment has its own limits because *excessive* inflation may become debilitating for private investment.

In such circumstances, according to the 3-gap model, foreign aid can relax the financing constraint by supporting the budget. From the development or planning (*ex ante*) perspective, the government of a developing country can estimate the fiscal gap, and place the foreign exchange needs on the donors, who can then fill the gap.¹¹ In other words, FA shifts the government budget constraint outward and allows government to spend more to meet development needs without having to resort to inflationary financing. See an illustration of this effect in Figure 2.

FIGURE 2 **Aid and the Government Budget**



The horizontal axis of Figure 2 represents social goods, such as education, health, and other programmes that *directly* enhance human development. The vertical axis represents government expenditures, such as on the military, the civil service and other activities that do not *directly* contribute to human development. Figure 2 shows that when the government's budget constraint shifts from AA to BB, it can achieve higher welfare. However, donors and development practitioners have raised concerns about the fungibility of aid, in particular the use of aid to expand unproductive activities of the public sector (included in 'other goods' in Figure 2). If donors want to restrict the use of aid to social goods (e.g., water, health and education), the budget constraint will shift with a kink at B* (i.e., AB*B will be the new budget constraint).

Development practitioners have also pointed out the possibility of lax revenue efforts by a government as a result of large FA inflows. In that case, the government budget constraint will shift to a position somewhere between AA and BB. (In the extreme case of a full offset, the budget constraint will remain at AA). Because of additional problems related to poor governance and the possibility of corruption, donors are now increasingly using aid conditionality to obligate governments to undertake tax reform and other public-sector reforms in order to overcome these problems.

The effectiveness and welfare implications of such aid conditionality remain debatable. (See McGillivray, 2000 for a survey of issues surrounding aid fungibility and fiscal behaviour and Easterly, 2003 for a critical appraisal of the effectiveness of aid conditionality and aid selectivity).

2.1 THE MECHANISM OF RESOURCE TRANSFER

Since foreign aid (FA) is mainly a source of capital inflows, it should have macroeconomic effects similar to those of other forms of capital. However, since FA comes largely through public channels, the government can influence its effects by carefully choosing its expenditures.¹²

As highlighted earlier, the transfer of resources due to foreign aid is often associated with real appreciation of the domestic currency. However, the mechanism through which real appreciation occurs depends on the exchange rate regime of the recipient country. To illustrate this process, we begin by examining the monetary balance sheet of an open economy, as presented in Table 1.

Items in the foreign sector are recorded in the capital account of the balance of payments. For most developing countries, liabilities to the foreign sector (capital inflows) are larger than their assets (outflows). Hence, their capital account shows a surplus, which is matched by the current account deficit, and adjustments in the central bank's net foreign reserves under a fixed exchange rate system, or the entire banking sector's foreign currency holdings under a flexible exchange rate system. That is, inflows of capital must finance the current account deficit and the addition to foreign reserves.

TABLE 1

Monetary Balance Sheet for a Developing Open Economy

Account	Assets	Liabilities	
Government	Deposits with central & commercial banks (GD + BD)	Outstanding debts	
Central Bank	 Net foreign reserve (NFR) Credit to government (CRG) 	 Currency (C) Reserves for deposits (R) Government deposits (GD) 	
Commercial Banks	 Reserves for deposits (R) Lending to private sector (CRP) Lending to government (BRG) 	1. Deposits (D) - Private (PD) - Public (BD)	
Private Sector	 Currency (C) Deposits (D) Lending to government (PRG) 	Loans from commercial banks (CRP)	
Foreign Sector	 Lending overseas Deposits in foreign banks Outward foreign direct investment 	 Foreign aid (FA) (loans) Commercial lending to the government/public sector Commercial lending to the private sector/banks Foreign direct investment 	

On the domestic side, each account (except that of the government) is balanced, with assets equalling liabilities. ¹³ Outstanding government debts (liabilities) imply that the government has been running budget deficits. The government has been financing these by a combination of borrowing from the central bank (CRG), from the commercial banks (BRG), and from the non-bank private sector (PRG). In an open economy, the government can also borrow from overseas (or receive grants). Each source of borrowing has different implications for the money supply (MS). The domestic capital markets in most developing countries are not developed enough to allow large-scale government borrowing from the non-bank private sector; governments also do not have easy access to the international capital market. Thus, they have to resort to borrowing from the banking sector, mostly from the central bank, and attempt to fill the remaining gap with FA. How does this affect a country's money supply? This can be explained as follows:

Money supply (MS) is defined as:

$$MS = C + D \tag{4}$$

Central bank's monetary liabilities (B) are:

$$B = C + R + GD \tag{5}$$

Dividing equation (4) by equation (5), we obtain:

$$MS/B = (C + D)/(C + R + GD)$$
(6)

That is,

$$MS = [(C + D)/(C + R + GD)] B$$
 (7)

Dividing both denominator and numerator on the right hand side of equation (7) by D, we obtain:

$$MS = [(c + 1)/(c + q + g)] B$$

Or $MS = m B$ (8)

Where c= C/D, the currency-deposit ratio

q = R/D, the reserve-deposit ratio

g = GD/D, the ratio of government deposits with the central bank to deposits

m = (c + 1)/(c + q + g), the money multiplier

Since the central bank's monetary liabilities must equal its monetary assets (H = NFR + CRG), equation (8) can be expressed in terms of the central bank's monetary assets (H) as:

$$MS = m H$$
 (8a)

Equation (8) implies that the money supply is linked to the central bank's liabilities through the money multiplier (m). Because the central bank's total monetary liability is the source of the money supply (according to equation 8), it is called *base money* or *high-powered money*.

In the standard textbook version, the money multiplier (m) is assumed constant, at least in the short run. Thus, the link between B (or H) and MS is assumed to be a rigid one. For example, an increase in the net foreign reserves (NFR) of the central bank, due to an increase in net aid inflows, should lead to an increase in the money supply by means of the money multiplier (m). However, whether an increase in foreign aid leads to an increase in the central bank's net foreign reserves, and hence a multiple increase in the money supply, depends on the exchange rate regime of the country.

2.1.1 A fixed exchange rate regime

Spending foreign aid *domestically* requires exchanging aid denominated in foreign currency into local currency. In order to spend aid, the government sells the foreign currency to the central bank at the fixed exchange rate, so the foreign exchange holdings (NFR) of the central bank go up.

This increase in the central bank's assets is balanced by an increase in its liabilities when the central bank issues equivalent domestic currency to the government for domestic spending. That is, there is an immediate increase in the supply of money equivalent to the local currency value of disbursed foreign aid. There will be further increases in the money supply through the private sector's portfolio choice of currency or deposits and through domestic credit creation when banks receive deposits as a result of the government's aid-induced expenditures. Thus, money supply goes up by a multiple of the initial increase in base money, depending on the size of c, q and g (defined above), which in turn depend on the behaviour of both the banking and the non-banking private sectors.

The increased money supply is likely to lead to some degree of inflation. Thus, an increased inflow of FA might lead to real appreciation of the domestic currency through a relative price effect. Since the nominal exchange rate is fixed, this can harm the

competitiveness of a country's exports. The central bank can offset (sterilise) the aid induced increase in its assets (NFR) in various ways. First, it can sell government bonds (CRG) to the non-bank private sector. Second, it can raise the reserve requirement for commercial bank deposits, and thereby reduce their ability to create credit. Thirdly, it can ask the government to shift its deposits from commercial banks to the central bank. This, too, will reduce the commercial banks' ability to extend credit.

Often the preferred option is for the central bank to sell the foreign exchange, which it received from the government, to the private sector in order to mop up the initial injection of liquidity. This facilitates payments for increased imports induced by the increase in economic activity, caused, in turn, by aid-financed government expenditures (through the multiplier effect). This is how the central bank can facilitate the absorption of foreign aid.¹⁴

2.1.2 A flexible exchange rate regime

Under a flexible exchange rate system, the central bank does not intervene in the foreign exchange market, and therefore FA inflows should not affect the money supply. In a flexible exchange rate system, the government sells the foreign currency in the open market (i.e., exchanges the aid denominated in foreign currency) for local currency. The increase in the supply of foreign currency reduces its price relative to the local currency. In other words, the local currency strengthens vis-à-vis the foreign currency. Thus, in a flexible exchange rate system, real appreciation of the local currency happens via nominal appreciation.

In reality, the government does not sell the entire amount of foreign currency in the open market, but deposits some foreign exchange either in the central bank or in commercial banks. When it is deposited in the central bank, NFR initially increases, but this is offset by the decrease in government debt to the central bank, leaving the total money base unchanged. But as soon as the government draws on its deposits to finance expenditure, net domestic assets and base money increase.

When the government deposits the aid-supplied foreign currency in commercial banks rather than in the central bank, FA inflows do not automatically increase base money. But this option increases the commercial banks' ability to create credit. As commercial banks sell foreign currencies in the market in response to increased import demand induced by increased economic activity, there will be nominal and real appreciation of the domestic currency. In other words, the resultant demand for domestic currency will drive up its relative price.

Thus, regardless of the exchange rate regime, there is the possibility that large foreign aid inflows can cause real appreciation of domestic currency. As noted earlier, this should be regarded, in fact, as a predictable effect of the transfer of real resources to developing countries. The real appreciation accompanies the widening of the trade gap, which is financed by the increase in aid flows. The assumption here is that the trade gap widens mainly due to increased imports; that is, the counterpart of increased aid inflows is the additional imports of goods and services.

However, a real appreciation that is too large might adversely affect the tradable sector – a condition referred to as a "Dutch disease". ¹⁶ This implies, paradoxically, that foreign aid could be harmful in the long run if it leads to shrinkage of the tradable sector. In other words, real appreciation leads to a reduction in exports (as well as an increase in imports). If that happens,

then there would be an ever-widening trade gap needing continuous aid financing. The following section reviews the theory and evidence about the Dutch disease phenomenon.

3 DUTCH DISEASE - THE THEORY

The first formal treatment of real exchange rate misalignment due to large FA inflows that cause stagnating exports and deteriorating external balance (a Dutch disease-like syndrome) is van Wijnbergen (1986). Van Wijnbergen disaggregated the economy into tradable (T) and non-tradable (NT) sectors and examined the impact of foreign aid on the relative prices of the two (PT/PN).¹⁷

In the two-sector, traded-non-traded model, it is assumed that PN is determined by domestic demand and PT is determined in the world market (hence it is exogenous for a small open economy). When FA is spent domestically, according to van Wijnbergen, a large portion falls on the NT sector since government services and infrastructures are largely non-tradable. This causes a rise in PN, and hence, a real appreciation (PT/PN falls). As a result, resources shift from tradables to non-tradables, and the tradable-sector shrinks. To the extent that part of the spending induced by foreign aid is directed at the tradable-sector, the availability of exportables declines. Furthermore, the increased expenditure due to the multiplier effect of the initial government expenditure causes imports to rise. The net effect of a decline in exportables and a rise in imports is a deterioration of the external balance. This adverse effect is exacerbated if the export sector is characterised by "learning-by-doing" (LBD) externalities, and hence has higher productivity than the NT sector. It is assumed that the shrinking of the export sector leads to falling productivity in the whole economy.

In the words of van Wijnbergen (1986, p. 130), "This point may be worth stressing: substantial amounts of aid will put upward pressure on the real exchange rate and will in that way counteract the export promotion schemes often recommended by the aid donors." In such a circumstance, according to van Wijnbergen, the export sector (especially if it is characterised by LBD infant industries) should be supported with increased production subsidies.

3.1 THE OPTIMUM AID LEVEL AND THE LAFFER CURVE ANALOGY

The Dutch disease model implies that there is an optimal level of aid beyond which the effectiveness of aid declines. A sudden surge in FA flows may even reduce real income and create a vicious cycle of aid leading to greater aid dependence. Such a problem could also arise from a lack of aid absorption capacity, public mismanagement, or poor governance.

Researchers who have empirically examined the hypothesis of diminishing returns to aid have customarily used an aid-squared term in their models. The coefficient of this term has been consistently negative and significant — validating the hypothesis of diminishing returns. However, the threshold level for the diminishing returns to set in varies considerably, ranging from 15 per cent to 45 per cent of GDP.

Gomanee *et al.* (2003) are critical of the earlier aid threshold (or Laffer curve) based empirical studies. They point out that these studies imposed a particular form of non-linearity, specifically a relationship between aid and growth that has an inverted U-shape – first positive and then negative. This also implies that there is only one threshold. Instead, they argue, there could be more than one turning point. Thus, Gomanee *et al.* use a technique that allows data

to determine the number of thresholds (i.e., there is no prior imposition of the type of non-linearity). Since the technique is based on asymptotic theory, it is possible to test the statistical significance of the estimates. To quote them, "results show that there is a threshold beyond which aid becomes effective, but no evidence of a second threshold in aid beyond which aid becomes less effective" (Gomanee *et al.*, 2003, p. 16). That is, while too little aid is ineffective (and can even be costly in terms of the need for expenditures on managing it, for example), there is no evidence that too much aid is harmful.

In contrast, some researchers maintain that there is a 'transfer paradox', namely, that an increase in aid will lead to less growth and development. Box 1 discusses one such model.

BOX 1

Discussions of the Aid 'Transfer Paradox'

Yano and Nugent (1999) introduce an interesting twist to the Dutch disease debate. In their model of 2-factors and 3-goods (exports, imports and non-tradables) including an import tax (tariff), FA inflows can paradoxically reduce the overall welfare of the recipient country. However, in contrast to the Dutch disease model, the immiserising effect of FA happens, in the Yano-Nugent model, due to a *decline* in the price of NT. While in the Dutch disease model, excess demand for NT goods causes PN to rise (implying sluggish or inelastic supply of NT), in the Yano-Nugent model, aid-funded projects cause an expansion of NT goods (infrastructure, education, health), and hence a supply-induced reduction in PN. This result, however, depends on the presence of import tariffs since they allow the expansion of the import-competing sector and the corresponding contraction of the export sector. Import barriers or tariffs make the import-competing sector essentially non-tradable. Thus, the Yano-Nugent model shows that if aid finances *excessive* expansion of import-substituting activities (protected by tariffs), the real income of a small country might decline. Note that this result depends on an excessive expansion of the NT sector. No transfer paradox arises when the NT sector expands to keep the demand-supply balance at the existing price level.

Choi (2004), in a theoretical model also involving two factors and three goods, shows that the possibility of a reduction in PN is remote. According to Choi (p. 250), "As long as the entire amount of foreign aid is *not* used for capital formation in the import-competing sector, or some development aid is used in the export sector, the transfer paradox cannot occur". (Emphasis original). In their own empirical work, Yano and Nugent (1999) themselves do not find much evidence to support their theoretical arguments. Only in four countries out of 44 in their sample did they find some evidence of a transfer paradox.

In support of his argument against the Yano-Nugent transfer paradox, Choi cites the example of the Marshall Plan after World War II – one of the most historically successful aid programs. Between 1948 and 1952, 15 European countries received more than US\$ 13 billion from the US under this plan (equivalent to US\$ 100 billion in 2005). The majority of these countries were small, and the aid money went to rebuild both non-tradable and tradable sectors. Within the non-tradable sector, aid money went to both export and import competing activities. Interestingly, none of these countries is known to have suffered from a transfer paradox.

3.2 LIMITATIONS OF THE DUTCH DISEASE MODEL

The logic of the Dutch disease model is not compelling. First, the original Dutch disease model does not consider the possibility of using sterilising monetary policy in response to an *excessive* over-valuation of domestic currency. As noted earlier, the central bank can sterilise the monetary impact of FA in a number of ways, such as selling its holdings of government bonds, raising the reserve requirements for commercial banks or transferring government deposits from commercial banks to the central bank. One could object by pointing to the supposedly limited scope for sterilisation because of the underdeveloped nature of capital markets in low-income countries. However, according to a recent study at the IMF (Prati *et al*, 2005), the practice of sterilisation is widespread among aid-receiving countries. Over the period 1960-1998, the study found 704 episodes – out of 1,935 episodes of foreign aid inflows that were greater than two per cent of GDP – during which net domestic monetary assets of the central bank fell. The study also reports on the more recent experiences of Ghana, Ethiopia, Mozambique, Tanzania, and Uganda, which also have reduced net domestic monetary assets in response to surges in aid flows.

The central bank can also neutralise the impact of increased inflows of FA by reducing the size of the money multiplier (m) through 1) influencing reserves (R) and/or 2) influencing private sector behaviour with regard to currency holdings and deposits (C/D). For example, by lowering the interest rate, the central bank could encourage commercial banks to keep excess reserves and individuals to hold more cash and fewer deposits. This outcome will simultaneously increase the reserve-deposit ratio (q) and the currency-deposit ratio (c), which, in turn, will reduce the size of the money multiplier. The government can also influence the money multiplier by shifting its deposits from the central bank to commercial banks or vice-versa to influence g (i.e., GD/D).

Thus, the central bank and the government can minimise the harmful effects of increased aid flows on money supply, and hence on inflation and the real exchange rate. However, as will be explained later, a full sterilisation that leaves the real exchange rate unchanged is not desirable. The central banks of the aid recipient countries have to accept some real appreciation in order to carry out a transfer of real resources. Sterilisation policy should be pursued only when there are signs of *excessive* over-valuation of the domestic currency.

The government can choose to keep foreign aid in an overseas account — instead of depositing it in the central bank — in order to use it directly to finance imports. Under this arrangement, private importers buy foreign currencies from the government, which then settles the transactions on behalf of importers from its overseas account. If the private importers borrow from their banks to pay the government, the banks simply credit that to the government accounts that they hold. This leaves the banks' balance sheets unchanged. Hence, there will be no impact on the domestic money supply.

Thus, this arrangement is similar to the direct transfer of resources via commodity aid, which can be absorbed without real appreciation. However, the government has to ensure that the aid money is used to import *non-competitive* imports. That is, aid financed imports must not substitute for goods and services that would otherwise have been imported or produced locally. This will ensure that real resources are transferred without real appreciation.

An added advantage of this arrangement is that the government can effectively follow a managed floating exchange rate system in order to avoid *excessive* real appreciation of the

domestic currency. That is, it can choose at what nominal exchange rate it wants to sell foreign currencies to private importers, keeping an eye on the movement of the real exchange rate.

One of the glaring omissions of the Dutch disease model is a lack of recognition of the supply-side effect of increased FA. It implicitly assumes that the supply in the NT sector is sluggish so that the price of NT is driven up in response to increased demand. The model also assumes, in effect, that the economy is characterised by full employment, which would require resources to be transferred from the tradable sector to the non-tradable sector. It is not possible for both sectors to grow together in this model. The model also ignores the productivity enhancing role of infrastructure, education and health (which are part of the NT sector). It also assumes that "learning-by-doing" (LBD) occurs only in the tradable sector.

These assumptions are at odds with the experience of most developing countries, where a vast army of underemployed and unemployed do not find jobs even when they are ready to work at a lower real wage (See Nkusu, 2004). A large number of empirical studies find a positive impact of public infrastructure, education and health on productivity growth. (See Adam and Bevan, 2004; Calderon and Serven, 2003; Gupta, *et al*, 2004; Barro and Sala-I-Martin, 1995; and Krueger and Lindahl, 2004). Furthermore, there is no reason why LBD or other kinds of externalities cannot occur in the non-tradable sector.

In addition to the impact of foreign aid on the supply of money, one needs to consider the impact on money demand. The inflationary impact of increased FA flows depends on a growth rate of money supply that exceeds the growth rate of real GDP. As the economy grows, so does the demand for money needed to facilitate the increased transactions. As noted by Little *et al* (1993), the typical developing country has a rapidly growing demand for money, as the economy becomes more monetised, and as households and firms increasingly hold assets in financial forms such as currency, demand deposits, or time accounts. This means that the income elasticity of the demand for money is likely to be greater than unity in low-income countries. Therefore, if one allows for the growth enhancing effects of aid-financed public investment, then the economy can accommodate an increase in money supply without generating significant inflationary pressure.

Thus, the alleged impact on inflation and real appreciation of increased FA, which would supposedly cause a Dutch disease, is not inevitable. It depends on how the monetary authority manages its assets and liabilities and uses interest rate policy, and on how the supply side responds to fiscal expansion. In a recent IMF working paper, Gupta *et al* (2005, p. 13), concluded:

"The macroeconomic impact of aid is likely to depend on how the aid is used. If aid is used to boost supply capacity, its macroeconomic consequences are likely to be mitigated... Once appropriate consideration is taken of the supply-side impact of aid flows, there is no clear presumption as to whether, over the medium term, there will be a real exchange rate appreciation or depreciation or whether the tradable sector will contract or expand. This is essentially an empirical issue, on which individual country circumstances are likely to differ". (Emphasis in original).

3.3 EVIDENCE OF DUTCH DISEASE

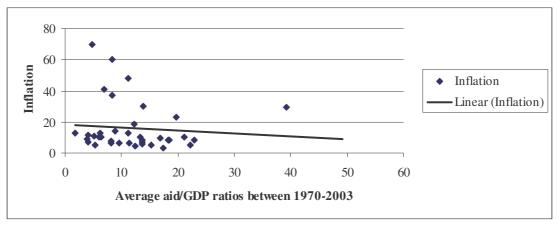
Unfortunately, "... there are remarkably few empirical studies of Dutch disease in aid-receiving countries" (Prati *et al*, 2005, p. 32). Figures 3A and 3B present scatter plots of average *net* aid/GDP ratios vis-à-vis inflation and real exchange rates of 42 aid dependent countries for

the period 1970-2003. The range of *net* aid dependence varies from 4 per cent to 49 per cent of GDP.¹⁸ To calculate the real exchange rate, we have used the nominal US\$ exchange rate of domestic currency and taken the US Consumer Price Index as a proxy for foreign prices. Thus, the real exchange rate is defined as RER= eUS CPI/Domestic CPI, where e is the local currency value of one US dollar, so that a rise in the real exchange rate indicates a real depreciation of the domestic currency.

Contrary to the Dutch disease hypothesis, the relationship between inflation and net aid is clearly negative, even without outliers (i.e., inflation rates >30% and net aid/GDP >30%). Although the relationship between net aid and real exchange rates is negative, implying that a rise in net aid inflows leads to real appreciation, when outliers (real exchange rates > 700 and net aid/GDP > 30%) are omitted, it becomes mildly positive. That is, in the absence of exceptionally high inflows of net aid, the real exchange rate is likely to depreciate. In sum, the cross-country evidence on the Dutch disease is mixed, at best, with any evidence in its favour heavily influenced by outliers.

FIGURE 3A

Aid/GDP Ratios, Inflation and Real Exchange Rates
(Average 1970-2003)



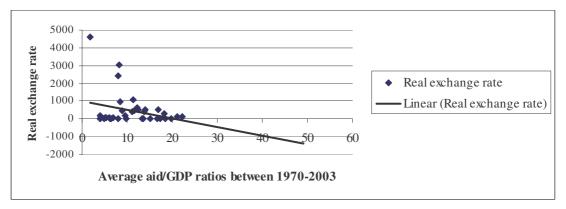
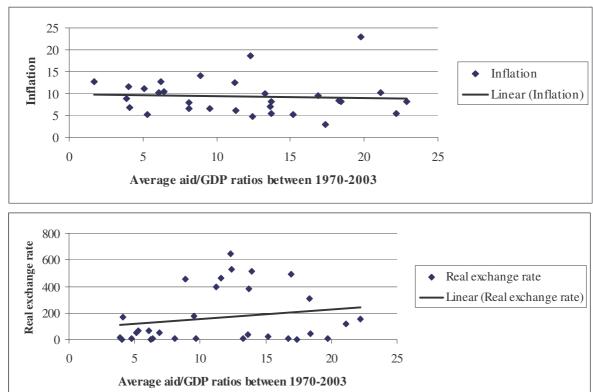


FIGURE 3B

Aid/GDP Ratios, Inflation and Real Exchange Rates
(Average 1970-2003) without Outliers (inflation > 30%, Real exchange rate > 700)



Source: IFS/IMF and IDS/OECD online database.

Table 2 presents correlation coefficients of net aid/GDP ratios with inflation rates and real exchange rates for 13 African countries, including nine countries that recently experienced a surge in HIV/AIDS related aid inflows. In eight countries, the association between net aid inflows and real exchange rates is positive, implying a real depreciation. In the remaining five countries there is weak evidence of real appreciation. The correlation between net aid inflows and inflation rates is in most cases found to be positive (in contrast to the results for the larger sample just mentioned). Hence, because of the mixed evidence, it is not possible to say *a priori* whether a rise in net aid inflows would lead to real appreciation or higher inflation. As will be shown later, the macroeconomic impact of aid inflows depends on the way the government and the central bank respond with public investment, credit allocation, and reserve management policies.

TABLE 2

Correlation Coefficients between Net Aid/GDP ratios and Selected Macroeconomic Indicators

Countries	Real Exchange Rate	Inflation	Budget Deficit
Ghana (1970-1997)	0.79	-0.32	0.73
Chad (1983-2002)	-0.48	-0.07	-0.23
Burundi (1970-2003)	0.76	0.13	-0.46
Rwanda (1970-2003)	0.13	-0.01	0.04
Uganda (1980-2003)	0.69	-0.51	-0.32
Ethiopia (1970-2002)	0.36	-0.13	-0.28
Kenya (1970-2003)	0.45	0.68	-0.27
Lesotho (1973-2003)	-0.30	0.28	-030
Malawi (1980-2003)	0.42	0.39	
Mozambique (1986-2003)	-0.09	0.66	
Swaziland (1970-2003)	-0.48	0.55	-0.14
Tanzania (1970-2003)	0.72	0.45	0.30
Zambia (1970-2003)	-0.08	-0.05	0.36

Sources: IDS (OECD) and IFS (IMF) online data bases.

Notes: Budget deficit as % of GDP.

The real exchange rate is estimated as (Nominal exchange rate * US CPI)/Domestic prices).

The US CPI is a proxy for foreign prices in each country.

The nominal exchange rate is expressed as the price of one US\$ in domestic currency.

So, a rise in the real exchange rate means a real depreciation.

Our evidence cited above is roughly in line with the observation of Lewis (2005, p. 9), "the available evidence on the macroeconomic effects of large aid flows is somewhat ambiguous. The evidence base is modest, and country circumstances appear to play a major role in determining the impacts."

The recent IMF survey of empirical findings on Dutch disease in Africa, by Gupta et al (2005), concurs. Following are their findings:

"... this evidence is not overwhelmingly significant. Econometric estimates often show the impact of aid on the exchange rate to be small and statistically insignificant. ... Time series models tend to reveal that the real exchange rate responds less to aid variations than to other exogenous factors, such as terms of trade variations. Moreover, some studies of African countries find that aid inflows appear to be associated with a real depreciation, reflecting increased productivity (supply-side response) as a result of aid" (p. 14).

"To the extent that higher aid flows alleviate supply bottlenecks, they can offset the effect of an exchange rate appreciation on export growth" (p. 15, emphasis in original).

"When aid flows build up public infrastructure and thus augment the productivity of private factors, it is possible to realize significant medium-term welfare gains from aid, even in the presence of some short-term Dutch disease" (p. 16, emphasis in original).

In sum, the theoretical literature on Dutch disease ignores the important condition that foreign aid is channelled mainly through the government of the recipient country, in support of its budgetary position. In many developing countries, investment needs are high, but private savings are low. Hence, governments are forced to run deficits because their revenue

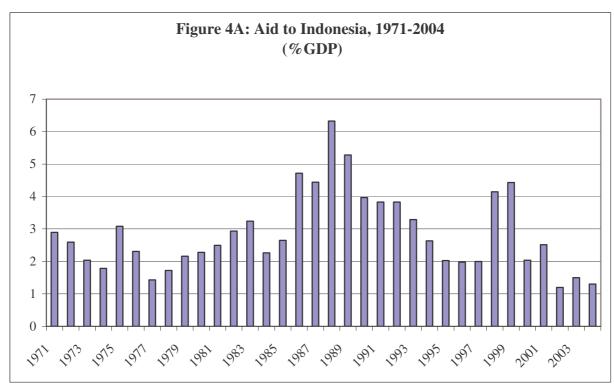
base is narrow and their tax administration weak. However, low private savings limit governments' ability to borrow domestically. At the same time, developing countries cannot borrow internationally at reasonable interest rates due to their poor credit ratings.

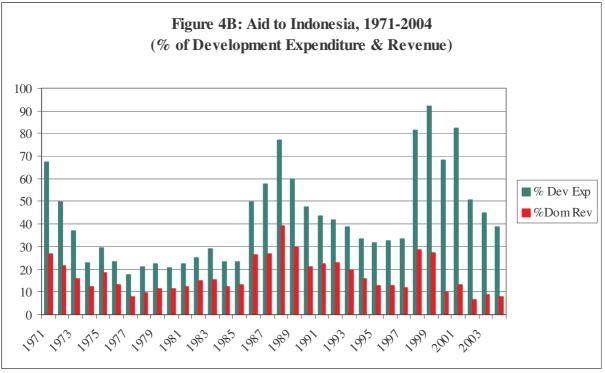
Thus, foreign aid remains the only source of deficit financing available to maintain public investment high enough to generate the economic growth necessary for poverty reduction. In the absence of foreign aid, the governments of developing countries would have no other option but to borrow from their central banks (namely, print money) to finance their investment needs.¹⁹ In other words, foreign aid allows the recipient government to pursue an expansionary fiscal policy without causing significant inflationary pressures through monetary expansion.

Even when developing countries are able to raise domestic savings, they can find themselves in a quandary, wherein they cannot use the savings for investment due to shortages of critical imports because of a lack of foreign exchange. As a result, they suffer from Keynesian type unemployment (or underemployment) despite the fact that real wages in most cases are very low, and are often below the poverty line. The unemployment/underemployment problems in these countries cannot be attributed to the downward inflexibility of real wages. Further cuts in real wages would simply swell the pool of working poor. In such circumstances, foreign aid facilitates imports that support the increased investment needed to create productive employment.

4 THE INDONESIAN EXPERIENCE

Indonesia's experience with foreign aid is worth studying closely in order to understand how best to utilize foreign aid. Foreign economic assistance is believed to have played a crucial role in Indonesia's phenomenal transformation from the early 1970s to the mid 1990s. As can be seen in Figure 4, foreign aid to Indonesia rose steadily from about three per cent of GDP in 1971 to a peak of about 6.5 per cent of GDP in 1988. Foreign aid financed nearly 70 per cent of total development expenditure in 1971, but dropped to about 22 per cent in 1974. It fluctuated thereafter between 20 per cent and 30 per cent during the period 1975-1985. However, the contribution of foreign aid to development expenditure rose again to about 78 per cent in 1988 and peaked at over 90 per cent during 1998-2000 in the aftermath of the Asian financial crisis.

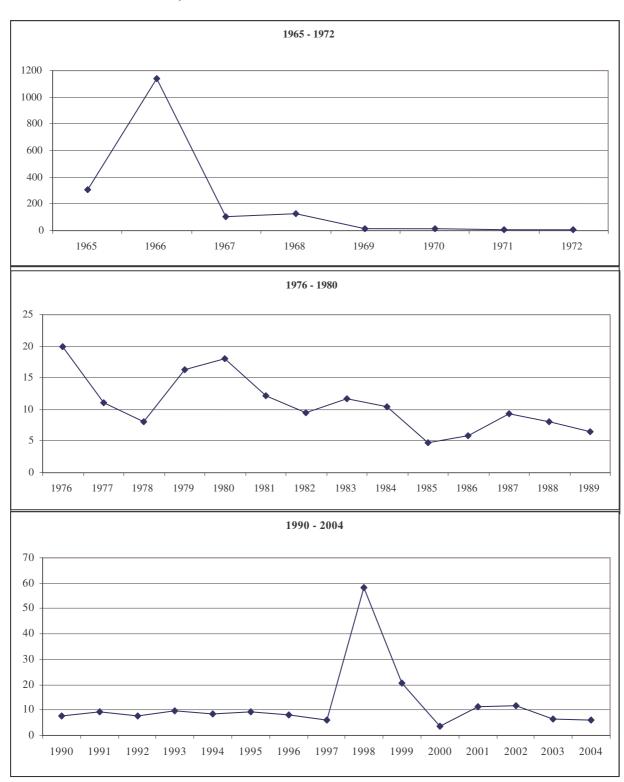




Sources: Financial Memorandum (Nota Keuangan), Ministry of Finance (MOF), various years. The data exclude capital transactions with the IMF.

The relevant issue for this paper is whether the surge in aid inflows in the late 1960s and early 1970s and later during the late 1980s and 1998-2001 resulted in macroeconomic instability. Contrary to the prediction of the aid-induced Dutch disease hypothesis, the inflation rate declined remarkably during these periods (Figure 5). As a matter of fact, aid has been a crucial factor in helping Indonesia stabilise its macroeconomy.

FIGURE 5 Indonesia's Inflation Rate, 1965-2004



Source: IFS online database.

Aid helped the government avoid inflationary financing of its budget deficits. The runaway inflation during the mid 1960s was successfully controlled in just a few years. Indonesia's average inflation rate in the 1970s was about 10 per cent, and dropped to around six per cent in the 1980s. This is indeed one of the most noteworthy contributions of aid in Indonesia. By carefully following a managed exchange rate system, Indonesia was able to avoid the adverse impact of aid financing on the private sector due to a real exchange rate appreciation. ²⁰ This served to support Indonesia's rapid export-led industrialisation.

One of the measures that the Soeharto Government took immediately after assuming power was to legislate the "balanced budget principle" and prohibit the state from borrowing from Bank Indonesia (BI). This measure helped stabilise the economy, and laid part of the foundation for three decades of sustained economic growth. The poverty rate dropped from nearly 60 per cent in the late 1960s to about 11 per cent prior to the massive economic collapse in 1997-98 triggered by the Asian financial crisis.

How was it possible to adhere to the balanced budget principle? A careful examination of the state budget of the Soeharto period reveals that it was never balanced in a genuine sense. What allowed a balanced budget was mainly the inflow of foreign aid. Because of the strategic importance of Indonesia in the specific context of the Vietnam War, and generally the Cold War, donor countries treated the Seoharto regime very favourably. This meant that they underwrote Indonesia's budget deficit. Because of this 'implicit guarantee', foreign aid was treated as revenue, contrary to conventional accounting principles. Thus, a balanced budget was fairly assured.

As can be seen in Figure 6, aid flows almost mirrored the size of government budget deficits, except for a few years. The fact that there has been a strong correlation between aid flows and budget deficits opens up two possibilities. First, aid might have been demand driven. That is, the government intentionally created deficits for various reasons and then sought aid to fill the deficits. Second, aid could have been supply driven, and induced deficits as a result. The latter case represents donors' interests more than the interests of recipient countries.

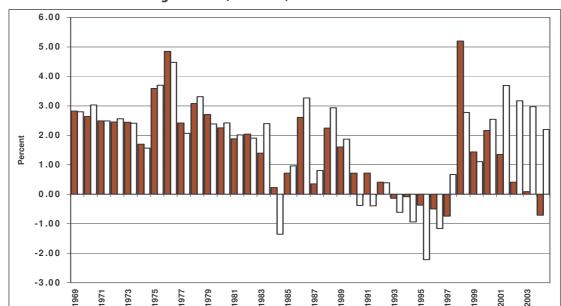


FIGURE 6
Indonesia's Aid and Budget Deficit (% of GDP)

■ Net Aid Inflows

Sources: Financial Memorandum (Nota Keuangan), Ministry of Finance (MOF), various years. The data exclude capital transactions with the IMF.

☐ Primary Deficit (Positive means deficit)

In order to assess whether net aid inflow to Indonesia was driven by the necessity to fill the fiscal gap, we use a "Granger causality test".²¹ The test suggests that budget deficits caused net aid flows. This indicates that the size of the deficits determined the size of net aid inflows (Table 3). In other words, the government planned the deficit in the first place, and then negotiated with creditors to finance it. Since Indonesia was a strategic ally in the Cold War, the donors obliged Indonesia's requests.²²

TABLE 3
The Results of a Causality Test (1970-2001)

Causality			
From	То	T Statistics	Probability (df=5, sl=0.05)
Net Aid Flows	Budget Deficit	5.441	0.367
Budget Deficit	Net Aid Flows	11.735	0.047

The Granger causality test was also used to assess whether there was a reverse causality from aid flows to fiscal deficits. The test shows that net aid flows did not cause fiscal deficits. In other words, there was no strong evidence that aid was supply driven. But this does not mean that creditors had no interest in directing aid to certain activities that met their own objectives. Rather, it means that aid was made available upon demand (i.e., request) by the Government of Indonesia. Importantly, the lack of evidence to support the Granger causality from aid to budget deficit implies that the *implicit* aid guarantee did not create disincentives for domestic revenue mobilisation, nor did it encourage government profligacy.

In crisis situations, aid played a very significant role in preserving fiscal sustainability and sustaining growth in Indonesia. For example, when the economy went into a downturn in the mid-1980s, aid flows peaked at 6.5 per cent of GDP in 1988 and financed 78 per cent of the development budget. As tax revenue fell during the economic slowdown, aid represented close to 40 per cent of domestic revenue. Similarly, aid flows helped Indonesia weather the economic crisis of the late 1990s. During 1998 and 2001, over 80 per cent of development expenditure was financed through foreign aid. Thus, the government could maintain essential social services and development expenditures without resorting to inflationary financing (through borrowing from Bank Indonesia). This also helped rein in the inflation rate from nearly 70 per cent, immediately following the crisis in 1998, to a single digit level in 1999.

In sum, the stability of ODA flows allowed the government to effectively plan its development expenditures and execute them. Hill (1996, pp 79-80) has summarised the contribution of ODA in the following words:

The stability of foreign aid flows, in contrast to volatility of private flows,... has been a recurring feature of the New Order... The stability of official flows underlies a crucial contribution of foreign aid... In a close relationship with donors, aid flows are more consistent, they provide a basis on which governments may plan longer-term investment projects and they enable nations to endure difficult economic periods and to enact policy reforms less painfully than would be the case in their absence.

What is relevant for this paper's discussion of the HIV/AIDS related human development crisis is that Indonesia's experience demonstrates that foreign aid can play a critical role in stabilising budgets and promoting development expenditures. However, there should be predictability in the flow of foreign aid in order to enable the government to plan and implement HIV/AIDS programs on a sustained basis, without risking its fiscal position.

5 A MACROECONOMIC FRAMEWORK FOR ANALYSING AID UTILISATION

In Indonesia, the surge in aid inflows financed 80-90 per cent of development expenditures. This experience shows that the macroeconomic impact of aid depends critically on the policy response of government. If the aid is used to expand the productive capacity of the economy or to remove critical supply bottlenecks, then there is likely to be little adverse impact associated with Dutch disease-like problems.

The macroeconomic impact of aid also depends on the behaviour of the central bank. For example, it could use the aid induced increase in reserves to expand low cost credit to the private sector so that the latter could take advantage of government supply-enhancing fiscal programs. For instance, Indonesia used the increased flows of foreign exchange (whether due to oil booms or increased aid inflows) to expand low cost credit schemes for rural and small-scale industries.²³ Its experience also demonstrates that the central bank can successfully manage the exchange rate to offset any appreciating effect of reserve accumulation.

In short, the effectiveness of aid flows depends on a coordinated fiscal, monetary, and exchange rate policy response of the government and the central bank.

A recent IMF working paper (IMF, 2005) provides a useful macroeconomic framework for analysing the use of foreign aid.²⁴ It defines two aid-related concepts – absorption and spending. Absorption captures both direct and indirect increases in imports financed by aid, and shows how much in additional imports are possible due to the availability of aid. Similarly, spending refers to additional government spending that aid finances. In other words, these two terms capture the way that aid helps finance a widening foreign exchange (trade) gap and an increasing savings gap (specifically, a larger government deficit).

Absorption and spending can be defined as:

Absorption = Δ (current account deficit without aid)/ Δ Aid Spending = Δ (budget deficit without aid)/ Δ Aid

Where Δ denotes change.

'Without aid' signifies the size of the respective deficits before aid financing is taken into account. Thus, the current account deficit excludes official grants and interest on external public debt while the budget deficit equals total government expenditure *minus* domestic revenue when no aid is registered.²⁵

From the balance of payments side, an *increase* in aid can be utilised (absorbed) in some combination of (a) an increase in the rate of reserve accumulation, (b) an increase in capital outflows and (c) an increase in the current account deficit. However, not all of these options will allow effective absorption of aid. For example, option (b) amounts to no real transfer of resources – foreign exchange comes and goes without adding any new capacity to the economy. Similarly, if the central bank decides to use the entire additional aid flows to boost its reserves of foreign currencies, then none of the extra aid gets absorbed. The central bank can do this by shedding other components of its financial assets – in this case selling its

holding of government bonds – so that the bank's overall financial assets remain unchanged. However, the selling of government bonds pushes up the interest rate on government bonds and with it the overall interest rates. Thus, such a response is tantamount to following a restrictive monetary policy regime in response to increased aid flows.

Therefore, for the effective absorption of additional aid, the central bank should respond with an expansionary policy stance and maintain a lower policy interest rate (equivalent to option (c) above). Since the lower interest rate should increase domestic demand, the trade deficit should widen. The central bank then uses its foreign exchange reserves to finance the increase in the trade gap.

From the fiscal side (i.e., the savings-investment gap), an *increase* in aid can be utilised in some combination of (a) an increase in government expenditures, (b) a reduction in tax revenue and (c) a retiring of existing government debt. Option (b) is not, however, a viable option. The rationale for providing aid is to allow the government to spend more than is possible with its own resources. The substitution of aid revenue for tax revenue leaves the government budget deficit unchanged. Hence, no new spending takes place. Moreover, when aid substitutes for domestic revenue, fiscal sustainability becomes vulnerable to aid volatility. Also, option (c) is not desirable. If the new aid money finances an activity (or is used to service debt), which was supposed to be financed from domestic sources, then overall government spending remains unchanged.

Therefore, the government should not use an increase in aid flows to reduce its tax efforts; nor should it use the additional aid money to finance expenditures (or to service debts) that are supposed to be financed from domestic resources. *Instead, the government should use the aid money for purposes such as increasing the economy's productive capacity, removing bottlenecks in the economy, or enhancing the public sector's absorptive capacity.*

Indonesia's recent experience in the aftermath of the economic crisis in 1997-98 offers an illuminating example of a case in which foreign assistance (e.g., an IMF loan) did not get fully absorbed or spent. The large inflow of IMF money following the economic crisis was not intended to support the government budget; instead, the loan was given as a supplementary fund to be used if Bank Indonesia's foreign exchange reserves fell short of meeting the country's balance of payments needs. That is, the IMF money was used, in effect, to boost foreign exchange reserves.

In reality, Indonesia never needed to use the IMF fund. However, it still ended up bearing the cost of the loan. For example, in 2002 it paid US\$ 2.3 billion to the IMF, consisting of US\$ 1.8 billion in principal and US\$ 500 million in interest payments (Ramli 2002, p. 13). On average, the service charge (fees and interest) for this *idle* fund was about 3.5 per cent. This was at a time when both the business community and the national planning agency (BAPPENAS) were asking for expansionary monetary policies, including lowering interest rates. ²⁶ Instead, Bank Indonesia followed a restrictive monetary policy by adhering to the medium-term inflation target of 3-5 per cent. Because high interest rates slowed economy recovery, this stance improved the balance of payments by import compression. Thus, although the large foreign aid that followed the economic crisis stabilised the exchange rate, it did not — contrary to general expectations — foster economic recovery.

On the fiscal side, the government did not use large aid inflows from the World Bank, the Asian Development Bank, and bilateral donors to boost its expenditures. Instead, the

government was using domestic revenue to service debt while directing the increased foreign aid flows towards financing social expenditures and development spending, with no (or little) net increase in overall government spending. The government deficit was less than two per cent of GDP when the unemployment rate was quite high and nearly half the population remained vulnerable to poverty.²⁷ Thus, Indonesia's reliance on restrictive monetary and fiscal policies undermined the purpose of using foreign aid.

Similarly, the 2005 IMF study of five African countries (Ethiopia, Ghana, Mozambique, Tanzania, and Uganda) found that an optimal policy response did not occur in any of these countries. In Ethiopia and Ghana, both absorption and spending were very low. While Ethiopia accumulated reserves to bolster its exchange rate peg against the dollar, Ghana built a buffer of reserves against extremely volatile aid inflows. In the other three countries, spending exceeded absorption, indicating that there was a lack of coordination between fiscal and monetary policies.

Ideally, an increased inflow of foreign aid should enable a country to adopt more expansionary fiscal policies. However, the central bank must accommodate the absorption of aid through its decision about the rate of reserve accumulation, as well as through its interest rate policy, which influences private spending decisions and hence the demand for imports. The central bank and the government should accept some real appreciation of the domestic currency, if necessary, in order to accommodate increased imports. However, the exchange rate still needs to be judiciously managed to prevent the possibility of *excessive* real appreciation. That is, in order to effectively utilise additional foreign aid without causing macroeconomic instability, there should be well coordinated expansionary fiscal and monetary policies coupled with a managed exchange rate policy.

Why do central banks and governments deviate from an optimal policy response to increased aid flows? There are two primary reasons. First, they are concerned about the uncertainty of aid commitments and disbursements. They do not want to incur obligations with projects and expenditures that cannot be sustained if aid flows drop. Second, they fear inflation and real exchange rate appreciation. While the concerns about aid volatility are genuine, there is little basis for the inordinate fear of Dutch disease. A large body of empirical studies finds no adverse effect of moderate inflation (in the range of 10-15 per cent) on economic growth. Also, countries that increase government spending do not necessarily slip into unsustainable fiscal deficits; many countries (such as Malaysia, the Republic of Korea, and Thailand) prospered with a fiscal deficit of around 5-6 per cent of GDP for long periods and successfully used fiscal deficits to maintain domestic demand during declines in external demand.

Donors also have the responsibility of ensuring sufficient predictability in the flow of aid. At the same time, they must adopt a more flexible attitude towards inflation and budget deficits, and work with recipient countries to ensure that resources are allocated within the framework of a long-term development strategy so that the threat of Dutch disease is less likely to arise. The challenge in a scaled-up aid environment is to ensure that increased availability of resources is used to increase productivity and enhance human well-being.

Finally, both donors and recipient countries should have a clear exit strategy from reliance on aid. Recipient countries must use the breathing space and growth momentum due to increased aid flows to broaden their revenue base and strengthen their governance and absorptive capacity.

6 POLICY OPTIONS WITH REGARD TO HIV/AIDS RELATED FOREIGN AID

As the preceding discussion has shown, the option of neither spending nor absorbing aid is not viable, especially when dealing with a daunting human development disaster such as the HIV/AIDS epidemic. This option defeats the purpose of scaling up aid, which is urgently needed for tackling HIV/AIDS head-on. Given the need for an emergency response and the scarcity of domestic resources, the ideal policy option would be to both 'spend and absorb' aid. That is, the recipients of GFATM and other aid related international assistance (such as PEPFAR) should adopt more expansionary fiscal and monetary policies in order to effectively support HIV/AIDS programs. The possibility of *excessive* real appreciation due to such expansionary policies can be minimised by coordinating fiscal and monetary policies and carefully managing the exchange rate. Moreover, the effect of real appreciation on exports could be mitigated by export subsidies targeted at the tradable sector and linked to productivity enhancing public investment.

Hence, the general principle that should guide the use of HIV/AIDS related foreign aid is to adopt an expansionary fiscal and monetary policy stance, coupled with a managed exchange rate regime. Specifically, the funds from the international community for HIV/AIDS can be used to:

- 1. fund direct imports of drugs and equipment, which either are not domestically produced or would not have been imported anyway, and
- 2. finance effective national programs of treatment, care and prevention.

If aid funding is used to directly import equipment and medicines, it will be simultaneously spent and absorbed. Such measures should not have any monetary implication since the central bank does not issue equivalent domestic currency to the government for increased spending. However, the government still needs to incur expenditures to enhance domestic capacity, such as for health clinics and trained healthcare personnel. In the absence of adequate capacity, the country cannot effectively use aid-funded equipment imports. In most cases, building capacity would require financing from the central bank, at least in the short- to medium-term when the revenue base is low. If the government borrows from the central bank to finance its ensuing deficit, this will inject liquidity into the economy. Hence, there will likely be some inflationary impact because of a lag in the response of supply to increased demand.

When the external funding comes as budget support, it should not replace existing government programs financed from domestic sources or be used to reduce taxation; nor should the government use foreign aid to retire its debt. Therefore, whether foreign assistance for HIV/AIDS programs comes as a direct transfer of resources or as budget support, the recipient governments must be allowed to increase their spending. The increased aid supported spending on HIV/AIDS programs must not be matched by cuts in other social sectors, such as education, basic health and human security, especially since these sectors have important complementarities with HIV/AIDS prevention and control.

Monetary policy needs to support the government's expenditure program. First, the central bank should <u>not</u>, as a general rule, sterilise the increase in its foreign exchange reserves

(due to aid) by selling government bonds to the public. If it sterilises, then the overall expenditure level in the economy will not rise – only the private-public mix of expenditures will change. Hence, aid does not get spent in a genuine sense. In contrast, the central bank could use its additional reserves, for example, to develop specialised low cost credit programs for HIV prone regions in order to stimulate employment and income generation, and thus increase the supply of factors of production.

Second, the additional aid money should not be used to boost the central bank's foreign exchange reserves. Instead, the central bank should sell foreign exchange to the private sector in order to facilitate the increase in import demand due to the multiplier effects of government expenditure. After all, aid is meant to facilitate financing of larger trade deficits. Additionally, while such a policy will facilitate the absorption of aid, it will partly neutralise the initial increase in liquidity and dampen any potential inflationary impact.

Governments and central banks can be persuaded to follow coordinated expansionary fiscal and monetary policies if they can be assured that aid flows will be steady and predictable. Governments also need to be convinced that when aid flows do slow down, they can sustain the programmes from domestic financing sources. For this purpose, there should be sustained efforts to mobilise domestic revenue. Countries might need to slow down, for instance, the liberalisation of trade since tariffs contribute significantly to government revenue, especially in low-income countries.

In order to enable the central bank to manage the exchange rate without piling up foreign exchange reserves (as a precautionary measure against speculative attacks on the domestic currency), there should be some controls on capital outflows. For most of the high AIDS prevalence countries, capital inflows are not significant. Instead, they face the problem of capital outflows (including unrecorded capital flight). The central bank needs to take measures to prevent the outflows of foreign currencies that are due to over-invoicing and other unauthorized means of capital transfers.

Only when a country has a high inflation rate (say in excess of 20 per cent) and/or high government debt, can it choose to "absorb but not spend" aid — namely, as a short-term measure to contain further demand pressure or counteract the prospects that debt will not be sustainable. Likewise, when a country has very low foreign exchange reserves and/or fears a sudden drop in aid flows, it can temporarily choose to "spend but not absorb" aid in order to build up its reserves.

While the above are general principles to follow, policies will vary in each country according to local circumstances. For instance, each country will need to determine:

- a) the threshold levels of inflation and fiscal sustainability that set the limits of an expansionary policy stance;
- b) the process of inflation e.g., demand pull or cost push in order to avoid inflationary spirals and ill advised policy responses;
- c) the income elasticity of the demand for money in order to determine the limits of a non-inflationary increase in the money supply;
- d) factors that can enhance international competitiveness as a counterbalance to adverse exchange rate effects;
- e) sectoral employment elasticities and productivities, which can be used for directing public investment.

7 CONCLUDING REMARKS

This paper has surveyed the likelihood of macroeconomic instability due to large HIV/AIDS related foreign aid inflows. If the surge in aid flows causes high inflation and/or *excessive* real appreciation of the domestic currency, which can adversely affect international competitiveness and growth prospects, then aid could be, paradoxically, counter-productive. This is particularly important for the countries facing both a human development crisis and a bleak economic prospect due to high HIV/AIDS prevalence. If the large aid inflows intended for HIV/AIDS prevention and treatment programs do, indeed, lead to immiserisation by causing macroeconomic instability, then it would appear, at first sight, that these countries face a 'no-win' situation – criticised if they accept and spend large amounts of aid; criticised if they don't.

However, as is becoming increasingly apparent, the evidence of aid induced high inflation and/or *excessive* real appreciation among developing countries is slim. Moreover, governments and central banks have the means to mitigate the harmful effects of large aid flows. They can carefully manage and coordinate fiscal, monetary and exchange rate policies. Furthermore, they can strategically direct public investment and credits to productive sectors, such as tradable-goods industries.

Since a significant proportion of HIV/AIDS related aid will be spent abroad to buy drugs or medical equipment that are not produced domestically or would not be imported without aid, it is not likely that there would be significant inflationary pressure or *excessive* real appreciation from such spending.

More importantly, increased spending for the prevention and treatment of HIV/AIDS will not only stem a tragic human development crisis but will also likely have favourable impacts on economic growth through safeguarding human capabilities. Effective universal programmes of HIV/AIDS treatment and prevention can reduce, for example, the adverse effects of premature mortality, allowing a longer period of productive employment and freeing household labour from caring for sick family members. A major conclusion is that the human development gains from reducing human suffering can, indeed, be achieved without sacrificing macroeconomic stability and economic growth. There need be no trade-off. National policymakers have the policy means at their disposal to maintain stability while dramatically scaling up foreign assistance to stem and reverse the HIV/AIDS epidemic.

It is the responsibility of donors to ensure certainty in aid flows so that recipient governments can adequately plan their programmes. This implies that government fiscal positions do not become vulnerable to aid volatility. At the same time, recipient governments must not become complacent about domestic resource mobilisation because of a greater availability of aid. In general, they should have a clearly formulated and effective strategic plan to enable them to eventually exit from aid dependence.

REFERENCES

Adam, C. and Bevan, D. (2002), "Uganda: Aid, Public Expenditure, and Dutch Disease" DFID-EA (Uganda).

Adam, C. and Bevan, D. (2004), "Aid and the Supply Side: Public Investment, Export Performance and Dutch Disease in Low Income Countries", Department of Economics Discussion Paper Series, University of Oxford, August.

BAPPENAS (2001), The Indonesian Economy in the Year 2001: Prospects and Policies, Jakarta.

Bacha, I. (1990), "A Three-Gap Model of Foreign Transfers and the GDP Growth Rate in Developing Countries", Journal of Development Economics, 32, pp. 279-296.

Barro, R. (1989), A Cross-country Study of Growth, Saving and Government, Working Paper # 2855, NBER, Cambridge, MA.

Barro, R. and Sala-I-Martin, X. (1995), Economic Growth, New York: McGraw-Hill.

Calderon, C. and Serven, L. (2003), "The Effects of Infrastructure Development on Growth and Income Distribution", World Bank Policy Research Working Paper, No. 3400.

Chenery, H. and Bruno, M. (1962), "Development Alternatives in an Open Economy", Economic Journal, 72(1), pp 79-103.

Chenery, H. and Strout, A. (1966), "Foreign Assistance and Economic Development", American Economic Review, 56(4), pp 679-733.

Choi, E. K. (2004), "Aid Allocation and the Transfer Paradox in Small Open Economies", International Review of Economics and Finance, 13, pp 245-51.

Chowdhury, A (2005). "Poverty Reduction and the 'Stabilisation Trap' – The Role of Monetary Policy", Thematic paper prepared for UNDP's Regional Workshop on the Macroeconomics of Poverty Reduction in the Asia-Pacific.

Easterly, W. (2003), "Can Foreign Aid Buy Growth?", Journal of Economic Perspectives, 17(3), pp 23-48.

Easterly, W. and K. Schmidt-Hebbel (1993) "Fiscal Deficits and Macroeconomic Performance in Developing Countries". World Bank Research Observer 8(2): 211-239.

Gomanee, K, Grima, S. and Morrissey, O. (2003), "Searching for Aid Threshold Effects", CREDIT Research Paper, September, University of Nottingham.

Gray, S. and Woo, D. (2000), "Reconsidering External Financing of Domestic Budget Deficits: Debunking Some Received Wisdom", IMF Policy Discussion Paper, PDP/00/8

Gupta, S., Clements, B., Baldacci, E. and Mulas-Granados, C. (2004), "Fiscal Policy, Expenditure Composition, and Growth in Low Income Countries", in S. Gupta et al. (eds.), Helping Countries Develop: The Role of Fiscal Policy, Washington DC: IMF.

Gupta, S., Powell, R. and Yang, Y. (2005), "Macroeconomic Challenges of Scaling Up Aid to Africa", IMF Working Paper, No. WP/05/179.

Haacker, M. (2004), The Macroeconomics of HIV/AIDS, Washington DC: IMF.

Heller, P. (2005), "'Pity the Finance Minister': Issues in Managing a Substantial Scaling up of Aid Flows", IMF Working Paper No. WP/05/180.

Hill, H. (1996), The Indonesian Economy Since 1996, Melbourne: Cambridge University Press.

Hossain, A. and A. Chowdhury (1996) Monetary and Financial Policies in Developing Countries: Growth and Stabilisation, London and New York: Routledge.

IMF (2005), The Macroeconomics of Managing Increased Aid Inflows: Experiences of Low-income Countries and Policy Implications, IMF Policy Development & Review Department, August 8.

Kalecki, M. (1976), Essays on Development Economics, Brighton, Sussex: Harvester Press.

Krueger, A. and Lindahl, M. (2004), "Education for Growth: Why and for Whom?", Journal of Economic Literature, 39 (Dec.), pp 1101-36.

Kwik, Kian Gie (2002), "Effective Use of Foreign Aid", statement to the Pre-CGI meeting, Jakarta, June 12.

Little, I., Cooper, R., Corden, W. M. and Rajapatirana, S. (1993), Boom, Crisis and Adjustment: The Macroeconomic Experience of Developing Countries, New York: Oxford University Press (for the World Bank).

Lewis, M. (2005), "Addressing the Challenges of HIV/AIDS: Macroeconomic, Fiscal and Institutional Issues", Center for Global Development Working Paper, April.

McGillivray, M. (2000), "Aid and Public Sector Fiscal Behaviour in Developing Countries", Review of Development Economics, 4(2), pp 156-163.

McGillivray, M. (2003), "Aid Effectiveness and Selectivity: Integrating Multiple Objectives into Aid Allocations", WIDER Discussion Paper No. 2003/71.

McKinley, T. (2005), "Why is 'The Dutch Disease' Always a Disease?—The Macroeconomic Consequences of Scaling up ODA", Working Paper #10, International Poverty Centre, Brasilia.

Nkusu, M. (2004), "Aid and the Dutch Disease in Low Income Countries: Informed Diagnosis for Prudent Prognosis", IMF Working Paper WP/04/49.

Ouattara, B. and Strobl, E. (2004), "Foreign Aid Flows and the Real Exchange Rate in the CFA Franc Zone", CREDIT Research Paper No. 04/07, University of Nottingham.

Prati, A., Sahay, R. and Tressel, T. (2005), "Can Monetary Policy Make Foreign Aid More Effective?", IMF, February.

Ramli, Rizal, (2002). "Malpractice and IMF Myths in Indonesia", Jakarta: (Mimeo).

Sugema, I. and Chowdhury, A. (2004), "Fiscal Response to Aid – The Case of Indonesia", Working Paper, United Nations Support Facility for Indonesian Recovery, Jakarta.

Taylor, L. (1979) Macro-Models for Developing Countries, New York: McGraw-Hill.

Tendler, J. (1975), Inside Aid, Baltimore: John Hopkins University Press.

Thirlwall, A.P. (2003), Trade, the Balance of Payments and Exchange Rate Policy in Developing Countries, Edward Elgar, UK and USA.

UN Millennium Project (2005), Investing in Development: A Practical Plan to Achieve the Millennium Development Goals, New York: UN Millennium Project.

UNAIDS (2005), Resource Needs for an Expanded Response to HIV/AIDS in Low- and Middle-Income Countries, Geneva: UNAIDS.

van Wijnbergen, S. (1986), "Macroeconomic Aspects of the Effectiveness of Foreign Aid: On the Two-Gap Model, Home Goods Disequilibrium and Real Exchange Rate Misalignment", Journal of International Economics, 21, pp 123-136.

Yano, M. and Nugent, J. (1999), "Aid, Nontraded Goods, and the Transfer Paradox in Small Countries", American Economic Review, 89(3), pp 431-449.

NOTES

- 1. See the report of the International AIDS Vaccine Initiative <www.iavi.org/AIDSandMDG_report>.
- 2. Multilateral assistance comes from international agencies, such as the World Bank and UNDP's Global Fund to Fight HIV/AIDS, Tuberculosis and Malaria (GFATM), which are financed by bilateral donors and private foundations, such as the Gates and Clinton Foundations. In addition to contributing to the GFATM, bilateral donors also fund HIV/AIDS programs directly. One significant initiative is that of the United States. Under the President's Emergency Plan for HIV/AIDS Relief (PEPFAR), the US has committed \$15 billion for 15 countries over five years (2004-2008).
- 3. See Heller (2005) and Lewis (2005) for brief reviews of issues.
- 4. Goods and services that are not domestically produced or goods and services that would have been imported even in the absence of foreign aid.
- 5. Technical assistance is another form of ODA that is not likely to cause real appreciation if the money is spent mainly on foreign consultants, who spend most of it in their home countries (which has, admittedly, its own drawbacks).
- 6. The gaps produced by the savings or exports required for the planned investment or importation of capital goods to achieve a target growth rate are:
- (a) savings-investment gap = s*Y sY, where s* is the target savings rate and s is the actual savings rate;
- (b) foreign exchange gap = $m^*Y mY$, where m^* is the target import rate and m is the actual import rate, permitted by export earnings. In the pre-take-off stage, a developing country would have a dominant savings-investment gap, followed by a dominant foreign exchange gap. See Chenery and Bruno (1962), Chenery and Strout (1966) and Thirlwall (1999).
- 7. From the balance of payments, the excess of imports over exports is equal to foreign transfers. Equation (3) assumes that the accumulation of foreign reserves is netted out of the capital account of the balance of payments to obtain the net value of capital inflows. For most low-income countries, there should be positive net capital inflows but, unfortunately, this is not always the case. Their net factor payments abroad are usually positive since they are making payment on inward foreign investment and have little outward investment of their own.
- 8. Most developing countries receive minuscule amounts of private capital. Some, however, have substantial amount of remittance income.
- 9. Equation (4) implies that public investment 'crowds-in' private investment. The crowding-in hypothesis is rooted in Gerschenkron's analysis of European history and has empirical support in the successful economies of East Asia, Brazil and Mexico. Based on econometric analysis of 72 countries, Barro (1989, p. 29) concludes, "an extra unit of public investment induces about a one-for-one increase in private investment" (emphasis original).
- 10. This process is known as 'forced savings'; see Kalecki (1976).
- 11. There is considerable debate about whether a fiscal deficit causes FA (demand driven FA) or FA causes a fiscal deficit (supply driven FA). Most critics believe that aid is supply driven. For example, according to Easterly (2003), Judith Tendler's observation as far back as 1975 that "A donor organization's sense of mission ... relates not necessarily to economic development but to the commitment of resources, the moving of money..." remains valid even today. That is, donors are judged by the amount of money spent; hence, they are driven by the desire to 'move money'.
- 12. A small portion of FA is channelled through non-governmental organisations. Some donor agencies, e.g., USAID, spend the aid money directly on projects and their aid does not support the government budget.
- 13. Strictly speaking, none of the accounts will necessarily balance because of the value of physical assets and the resultant net worth, which are ignored here. However, physical assets are likely to be particularly important for the government and the private sector. Moreover, their inclusion draws attention to the links between the monetary and real sectors of the economy.
- 14. Absorption, here, is used differently from the traditional usage of the term, such as in "absorptive capacity", which is related to microeconomic issues such as the availability of counter funds, project readiness, project management, and institutional factors such as governance.
- 15. The exchange rate (e) is defined as the price of one unit of foreign currency in terms of the local currency (e.g., 1 USD= Rs. 60). Therefore, when the exchange rate (e) falls, it means appreciation of the local currency.
- 16. The term Dutch disease was used to describe the adverse impact of a discovery of natural gas on the Dutch manufacturing sector. A sudden surge in export earnings from natural resources caused real appreciation of the local currency that put manufacturing exports at a disadvantage.
- 17. The relative price (PT/PN) between the traded and non-traded sectors can also be regarded as the real exchange rate (if the nominal exchange rate is fixed). PT is a proxy for the world price (in local currency) while PN represents the domestic price level.
- 18. One can use alternative measures of aid dependence, such as aid/government revenue or aid/government expenditure. Net aid is a capital flow concept and is net of principal payments. However, a better indicator is net aid transfers (NAT), which is net of both principal and interest, and excludes debt cancellations. Recently the Center for Global Development has produced a data set of NAT. See http://www.cgdev.org/doc/data%20sets/roodman05/NAT.xls..
- 19. A typical developing country finances approximately 50 per cent of budget deficits through the banking system (Little *et al.*, 1993). Easterly and Schmidt-Hebbel (1993: 221) estimated a seigniorage effect of about two per cent of GNP for a sample of 35 developing countries, as opposed to one per cent for a sample of 15 developed countries. Thus, in developing countries, monetary policy can serve as an instrument for fiscal authorities. Taylor (1979, p. 27) puts it succinctly: "The Bank has to 'print' money by absorbing government obligations if the Finance Minister orders it to do so ..." For more details on the link between budget deficits and money supply in developing countries, see Hossain and Chowdhury (1996).

- 20. See Gray and Woo (2000). Indonesia devalued its currency significantly in 1978, 1983 and 1986 in order to avoid real appreciation. The Rupiah was devalued by 50 per cent in November 1978. It was devalued again in March 1983 following the second oil price boom in order to avoid a Dutch disease syndrome. There was further devaluation in September 1986 in response to balance of payments deficits. These three large devaluations were seen as highly destabilising because they caused uncertainty for business investment. Thus, Bank Indonesia (BI) adopted a managed floating policy after the devaluation of 1986. The Rupiah has been allowed to gradually depreciate for much of the period since then. This strategy was fine tuned in the early 1990s to incorporate movements against a basket of currencies.
- 21. See Sugema and Chowdhury (2004) for details.
- 22. For example, Indonesia received a World Bank Structural Adjustment loan in 1987 without any conditions. The relationship between Indonesia and donors soured only after the Asian financial crisis. See Hill (1996) for donor attitudes towards the Soeharto Government.
- 23. Before the crisis, Indonesian banks were required to lend 20 per cent of their loans to SMEs. The main financial institution for financing SMEs and the rural sector has been the Bank Rakyat Indonesia (BRI).
- 24. For a summary and evaluation of the framework, see McKinley (2005).
- 25. In the absence of aid, current account and fiscal deficits could be financed by borrowing externally at market rates.
- 26. The National Planning Agency (BAPPENAS 2001: 27) believed that a relaxed monetary policy could ease fiscal pressure, and concluded, "Monetary policy aimed at lower interest rates ... [and] lower domestic debt servicing costs is now attractive for ... budgetary reasons... higher interest rates increase the interest cost on the large, outstanding stock of [debt] (currently equivalent to roughly 90% of base money). This significantly complicates the task of implementing monetary policy."
- 27. Gross aid flows as a proportion of development expenditure increased dramatically from close to 40 per cent in 1997 to nearly 120 per cent in 2002. Yet more was spent on external debt servicing than on development. The ratio of external debt service (excluding the servicing of IMF loans) to development expenditure stood at 140 per cent in 2002. If the servicing of IMF loans had been taken into account, this figure would have been much higher.
- 28. For a survey see Chowdhury (2005), "Poverty Reduction and the 'Stabilisation Trap' The Role of Monetary Policy".
- 29. More importantly, fear should not dominate public policy decisions. It would be pertinent at this juncture to paraphrase Bob Hawke, the former Australian Prime Minister, that policy makers cannot be too scared to put a foot forward for fear of putting a wrong foot.



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