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► **To cite this version:**

Yéro Baldé. The impact of Remittances and Foreign Aid on Savings/Investment in Sub-Saharan Africa. *African Development Review*, 2011, 23 (2), pp.247-262. 10.1111/j.1467-8268.2011.00284.x . hal-00785220

HAL Id: hal-00785220

<https://unilim.hal.science/hal-00785220>

Submitted on 5 Feb 2013

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The Impact of Remittances and Foreign Aid on Savings/Investment in Sub-Saharan Africa (SSA)

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JANUARY 2010

Abstract: This study investigates the macroeconomic impact of remittances on savings and investment in Sub-Saharan Africa (SSA). It also analyzes comparatively the effectiveness of remittances and foreign aid (official development assistance) in promoting savings and investment. We use a respective sample of 37 and 34 SSA countries over the period 1980-2004. Using OLS and instrumental variables (2SLS) estimation methods with country fixed-effects, the results suggest that both remittances and foreign aid promote savings and investment in Sub-Saharan Africa, but remittances are strongly more effective. The coefficients of remittances are 6 to 7 times higher than those of foreign aid. A 10% increase in remittances increases savings by 7% and investment by 6.5%, while the same 10% increase in foreign aid increases savings and investment by respectively 1.6 % and 1%. According to these results, remittances, although less important in volume and in percentage of GDP, are more effective in boosting savings and investment in SSA than foreign aid. However, when foreign aid is efficiently used, it can be an important complement to remittances by allowing vulnerable households to have income above the threshold subsistence's level so they can use larger share of remittances for savings and investment purposes.

Keywords: Migration, Remittances, Foreign Aid, Savings, Investment, Development, Sub-Saharan Africa (SSA)

JEL Classification : F22, F24, F35, O11, E21, E22

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Introduction

The literature on the relationship between foreign aid (also known as official development assistance), savings and investment in developing countries has been very abundant during the last thirty years, studies examining both micro and macro level as well as regional or national level. However, the results are mixed and vary widely depending on the sample and the econometric method used by authors. Weisskopf (1972), Fry (1978), Gupta and Islam (1983) show that the impact of aid on savings in developing countries is significantly negative. Hadjimichael et al. (1995) find that when one considers Sub-Saharan Africa (SSA), the impact of foreign aid is negative for savings but mixed for investment. However, by dividing the sample into two subgroups, one with negative growth rates and another one with positive growth rates, foreign aid fosters savings and investment for the subgroup with positive growth and therefore in the presence of favourable economic conditions. The negative effect however persists for the subgroup with negative growth. On the other hand, Mosley (1987) did not find a significant relationship.

While the literature has extensively discussed the effectiveness of foreign aid in SSA; the impact of migrants' remittances in this region received less attention particularly at the macroeconomic level. This could be explained by the relative low share of remittances received by this region (only 6% of remittances to developing countries in 2008, Table 1). This however is about 21 billion dollars with an increase of almost 254% between 2003 and 2008, representing the largest increase of the amount over this period.

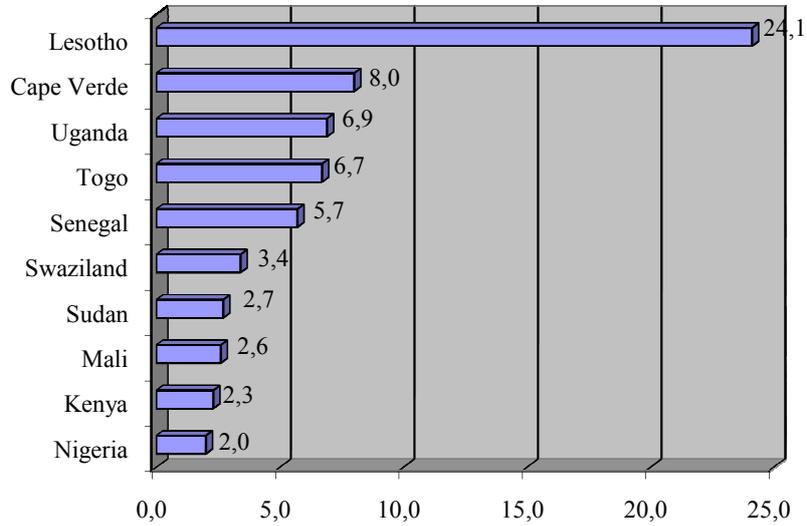
Graph 1 below shows that remittances represent an important share of GDP for some SSA countries such as Lesotho (24%) or Cape Verde (8%). Another factor that could explain the low interest on the study of remittances in SSA in the literature would be the relatively lower share of remittances compared to foreign aid.

Table 1: Place of SSA in Remittances received by region, billion US \$ and %, 2003-2008

	2003	2004	2005	2006	2007	2008	Increase between 2003 and 2008	
East Asia and Pacific	33	40	50	58	71	86	163%	
Latin America and Caraibes	37	43	50	59	63	65	77%	
Middle East and North Africa	20	23	25	26	31	35	70%	
South Asia	30	29	34	43	54	73	141%	
SSA	billion \$	6	8	9	13	19	21	254%
	% of remittances to all developing countries	4.3%	4.9%	4.7%	5.4%	6.4%	6.3%	
All developing countries	140	164	199	235	289	338		

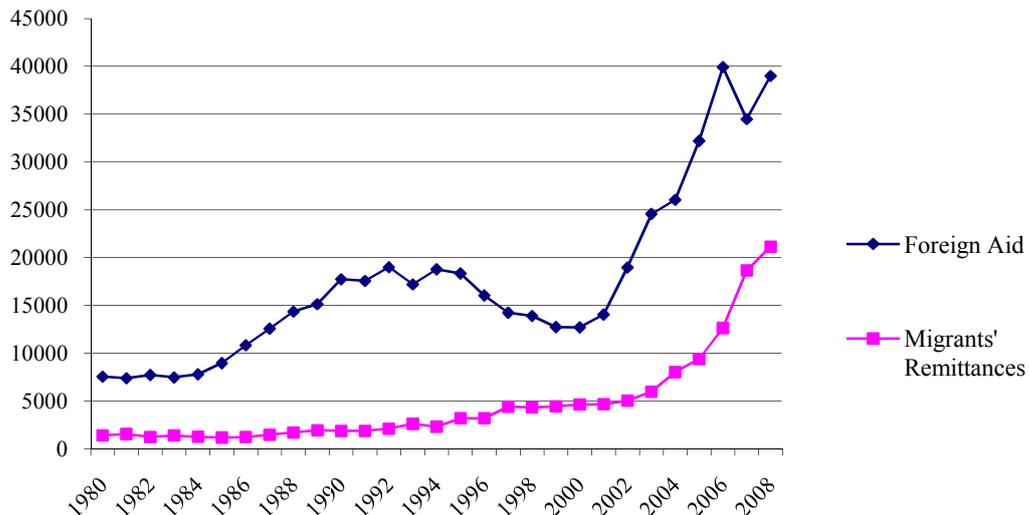
Source: Data from World Bank staff estimates (2009) based on the IMF's BOP statistics Yearbook (2008)

Graph 1: Remittances in % of GDP in SSA, 2006



Source: Our calculation based on World Development Report (2008) for GDP and World bank staff estimates (2009) for remittances

Graph 2: Migrants' Remittances and Foreign Aid in SSA, million \$ US, 1980-2008



Source: World Bank staff estimates (2009) for remittances and Roodman (2009) update for Foreign Aid

Graph 2 above shows the dependence of SSA on foreign aid as a source of external capital and the low share of migrants' remittances compared to foreign aid. Foreign aid accounts for up to more than 15 times the remittances in SSA depending on the year considered. This is in contrary with other developing regions where remittances are more important than foreign aid since the mid-90s. Despite these large flows, Baldé (2009) finds in a previous paper that remittances and foreign aid did not stimulate growth in SSA.

In this paper, we investigate two important points: first, we analyze whether remittances stimulate savings and investment in SSA. Second, we compare the effectiveness of remittances and foreign aid in promoting savings and investment in this region. While the link between aid, savings and investment in SSA has been widely documented, our study is the first one that investigates the macroeconomic impact of remittances on savings and investment in this region and compares the effectiveness of remittances and foreign aid on stimulating these two variables in a sample of 37 and 34 Sub-Saharan African countries over a long period (1980-2004).

1- Remittances, Savings and Investment : A Review of Literature

On the current debate on migration and development, many researchers have pointed out that the way in which migrants and households spend remittances have a significant effect on the development of local economies. In the 70s until the late 80s, the economic literature has not found a positive relationship between remittances and development, arguing that remittances are mainly used for subsistence consumption (food, clothing...), non-productive investments, repayment of debts, and that these kinds of expenditures tend to have little positive impact on local economies development. Rempel and Lobdell (1978) note that remittances are mainly devoted to daily consumption needs. Lipton (1980) estimates that purchases of consumer goods related to daily needs absorb about 90% of remittances received. 68 to 86% of the Mexican migrants' remittances are used for consumption (Massey et al. (1987)).

However, more recent studies conducted in most cases for Latin America and Asia found that migrants and households spend a share of remittances on investment goods (i.e. education, housing and small business), and that these types of expenses would strengthen the human and physical capital of the recipient countries. According to Mishra (2005), an increase of 1% in remittances in 13 Caribbean countries leads to an increase in domestic private investment by 0.6% (relative to GDP). Funkhouser (1992) for El Salvador, Yang (2004) for the Philippines, Woodruff and Zenteno (2002) for Mexico highlight that remittances would have reduced credit constraints in the receiving households and encouraged entrepreneurship in these countries. Adams et al. (2008) found that households in Ghana treat remittances as any other source of income and there is no disproportionate tendency to spend it on consumption. Mesnard (2001) finds that migration, through enrichment of some Tunisian workers abroad, allows investment in more productive activities in their home country. Tests conducted by Leon-Ledesma and Piracha (2001) for 11 countries of Central and Eastern Europe and Drinkwater et al. (2003) on 20 developing countries show that remittances contribute significantly in increasing the level of investment in their home countries.

2- Data and Variables Description

Our data come from two main sources: The World Development Indicators 2006 of the World Bank and David Roodman's *Index of Donor Performance* data compilation on Foreign Aid originally published in 2005 and updated in 2009 within the Center for Global Development. Table 5 in the appendix shows the definition of the variables.

Due to the lack of continuous observations, some countries are excluded from the final estimation. Only 37 and 34 out of 48 SSA countries are considered respectively in the saving and investment estimation.

Remittances are defined by IMF as the sum of workers remittances, compensation of employees and migrants' transfer. However as already pointed out by

OECD and many other studies, there is confusion in remittances recording, which can seriously affect the comparability and reliability of data. Remittances are often misclassified as export revenue, tourism receipts and deposits of non resident. According to Gubert (OECD 2006), even data from the recording method of the IMF are very limited and confused and seriously call into question the estimations. First, the calculation of remittances flows by the IMF method overestimates the actual flows as a share of compensation of employees is the gross wage of which a part is necessarily spent in the host country and is never remitted, and secondly that compensation includes the salary of individuals who are not even migrants such as local staff of embassies (who works in his own country), consulates and international organizations based abroad but operating locally.

Moreover, these flows may also be largely underestimated because they do not include remittances through informal channels (cash sent through friends or family members, remittances in kind: jewellery, clothing, electronics and other consumer goods ...). Some studies (World Bank (2006)) consider these informal flows to over 50% of total official remittances recorded. When recording in-kind remittances, the country torn between recording as remittances or as goods import.

But despite these shortcomings, data from World Development Indicators and the “Balance of Payment Statistics Yearbook” of IMF are the best and by far the most comprehensive source of information on remittances to the macro level.

3- Methodology

We use unbalanced panel because of insufficient data on certain periods. The objective is to estimate the impact of remittances and foreign aid on savings/investment in Sub-Saharan Africa from 1980 to 2004

Our empirical study consists of two econometric relationships: 1) the relationship between migrants’ remittances, foreign aid and savings, and 2) the relationship between migrants’ remittances, foreign aid and domestic investment in SSA. We use two

samples of 37 and 34 SSA countries that have sufficient annual data over the period 1980-2004 so that a panel data method can be used. We rely on the economic literature that has found a number of variables as determinants of savings and investment.

F-test allows us to reject the null hypothesis of individual homogeneity at 1% level and conclude to the presence of individual specificities. The good model to use here is either fixed-effect or random-effect. We check if these specificities are fixed or random by performing the Hausman test. The results allow us to choose the fixed effects model at 1% level. The introduction of country specific effects in the model will allow taking into account a possible heterogeneity of data and unobservable characteristics of countries. We therefore estimate our relations with the Ordinary Least Squares (OLS) method taking into account the presence of country fixed effects. Using White's method correction solves the problem of heteroscedasticity.

However, the former literature underline the possibility that GDP per capita is endogenous to both saving and investment. This means that an increase in GDP per capita may lead to increase of both saving and investment; but also an increase in saving and investment may lead to increase of GDP per capita. In this situation, our estimated coefficients with OLS method may be biased. The existence of such causality would result in a correlation between the control variables and error term, which violates the assumptions of a linear regression model. It is in this case difficult to assess the effect of an individual variable and to isolate its influence on saving and investment. Estimation of such a model would lead to an endogeneity bias. To address this problem, we use the Two-Stage Least Squares (TSLS) instrumental variables method and try to find variables highly correlated with the endogenous variable, but independent to the error term. The problem with this method is to find good instruments. In this study, we control for endogeneity by using “internal instruments”, that is, instruments based on lagged values of the explanatory variables that are endogenous. In the econometric theory, a good instrument (exogenous) variable may be endogenous variable itself lagged 2 periods. We then re-estimate our equations with the instrumental variables

method (2SLS) and use GDP per capita lagged two periods as an instrument of GDP per capita.

Moreover, as remittances and saving may be also correlated, we use the residual series collected from the estimation of saving-remittances equation as a proxy of saving variable, this solve the potential correlation problem between remittances and saving and between income per capita and saving.

We control for unobservable country specificities by including a country specific fixed-effects α_i .

3- 1. Remittances, Aid and Savings in Sub-Saharan Africa

Looking into the relationship between remittances, foreign aid and savings, we estimate the following equation:

$$GS_{it} = \beta_0 + \beta_1 GDPPC_{it} + \beta_2 REMIT_{it} + \beta_3 AID_{it} + \beta_4 DEP_INT_{it} + \beta_5 INFLAT_{it} + \alpha_i + \varepsilon_{it}$$

where GS_{it} is savings of country i at the date t . Economic variables identified in the literature as determinants of savings are $GDPPC_{it}$ (Servén and Solimano, 1993, Wai and Wong, 1982), deposit interest rate DEP_INT_{it} (Greene and Villanueva, 1991), inflation $INFLAT_{it}$ (Fisher, 1993). Along with this variables, we add the two foreign capital flows: migrants' remittances $REMIT_{it}$ and foreign aid AID_{it} . α_i is a country specific fixed-effects and ε_{it} is the error term.

3- 2. Remittances, Aid and Investment in Sub-Saharan Africa

In investigating the relationship between remittances, foreign aid and investment, we estimate the following equation:

$$INV_{it} = \beta_0 + \beta_1 GDPPC_{it} + \beta_2 REMIT_{it} + \beta_3 AID_{it} + \beta_4 LEND_INT_{it} + \beta_5 GS_{it} + \beta_6 OPEN_{it} + \alpha_i + \varepsilon_{it}$$

where INV_{it} is investment of country i at the date t . According to the economic literature, income per capita $GDPPC_{it}$ (Wai and Wong, 1982, Greene and Villanueva, 1991), lending interest rate $LEND_INT_{it}$ (Greene and Villanueva, 1991), openness $OPEN_{it}$ (Levine and Renelt, 1992), and savings GS_{it} (Feldstein and Horioka, 1980) are determinants of investment. Remittances $REMIT_{it}$ and foreign aid AID_{it} are added as our variables of interest. α_i is the country fixed-effects and ε_{it} the error term.

4- Estimation Results

The OLS and 2SLS results are very similar. GDP per capita, as expected, positively and significantly influences savings and investment. The capacity of countries to mobilize savings to finance investment depends on its level of development. High deposit interest rates encourage savings, the coefficient is positive and significant at 5% level; however, high lending interest rates inhibit investment. Inflation is detrimental to savings while economic openness encourages investment. Savings is also a determinant of investment; its coefficient is positive and significant at 1% level regardless to the estimation method used.

Table 2: Remittances, Foreign Aid and Savings in SSA

Dependant Variable : Savings (% of GDP)	Econometric Method	
	(1) OLS-Fixed Effects	(2) 2SLS-Fixed Effects
GDP per capita	0.004** (2.643)	0.0007 (0.362)
Remittances	0.757*** (3.129)	0.697*** (2.788)
Foreign Aid	0.163** (2.430)	0.159** (2.437)
Deposit interest rate	0.145** (2.525)	0.130** (2.200)
Inflation	-0.046** (-2.308)	-0.044* (-1.831)
Constant	4.687*** (2.814)	8.050*** (4.131)
Observations	513	495
Number of id	37	37
R-squared	0.69	0.70
Adjusted R-squared	0.66	0.67
F-statistic	25.77***	25.35***

t-statistics in parentheses, *, **, *** respectively significant at 10%, 5%, and 1% level

Migrants' remittances and foreign aid both have positive coefficients, but their significance and size vary for these two variables. In the savings equation, the coefficient of foreign aid is significant at 5% level in the two specifications, OLS and two-stage least squares, whereas in the investment equation, we find foreign aid to be respectively significant at 1% and 5% level in determining investment. On the other hand, we find remittances coefficient highly significant at 1% level no matter the specification. More importantly, the estimated coefficients of remittances are higher than those of foreign aid, suggesting that remittances may stimulate more savings and investment in SSA than foreign aid.

Table 3 : Remittances, Foreign Aid and Investment in SSA

Dependant variable : Investment (% of GDP)	Econometric Method	
	(1) OLS-Fixed Effects	(2) 2SLS-Fixed Effects
GDP per capita	0.0028** (2.382)	0.004*** (2.813)
Remittances	0.646*** (3.220)	0.657*** (3.308)
Foreign Aid	0.098*** (2.644)	0.093** (2.558)
Lending interest rate	-0.132** (-2.518)	-0.081* (-1.937)
Openness	0.048*** (3.068)	0.042*** (2.915)
Savings	0.255*** (5.328)	0.279*** (6.105)
Constant	11.69*** (5.347)	9.769*** (4.561)
Observations	411	395
Number of id	34	34
R-squared	0.74	0.76
Adjusted R-squared	0.72	0.74
F-statistic	27.75***	29.52***

t-statistics in parentheses, *, **, *** respectively significant at 10%, 5%, and 1% level

According to our results, an increase of 10% in remittances in SSA increases savings by 7.6% in the OLS estimates (Table 2, column 1) and by 7% when we control for endogeneity (Table 2, column 2), while the same increase of 10% in foreign aid increases savings by only 1.6 % (Table 2, column 1 and 2). We find the same observations in the second regression (Table 3) where an increase of 10% in remittances increases investment by 6.5% regardless of the econometric methodology used. The same increase of 10% in foreign aid increases investment in SSA by only 1%. Baldé (2009) find that foreign aid did not promote economic growth in SSA. Yet, as we have

noted, foreign aid has always been more important in terms of volume and in % of GDP in SSA (Graph 2), with nearly \$39 billion in 2008 against 21 billion in remittances. From 1980 to 2004, aid has on average accounted for almost 12% of GDP in SSA countries against 3% for remittances (Table 4 and 5).

5- Comparative Analysis of Remittances and Aid Effectiveness in SSA

It is possible that the low effectiveness of aid on savings is explained by the fact that when projects such as schools, roads, etc., are implemented using foreign aid, maintenance and sustainability of these infrastructure are provided by local governments. This can increase governments' consumption spending on staff, equipment, or maintenance costs and reduce the government available income for public saving and hence national saving.

However, a number of authors (Burnside and Dollar (2000), Easterly et al. (2003), Levine (2003), Clemens et al. (2004)) have raised other possible factors that explain the low effectiveness of aid in promoting development. Some of these factors are weak economic policies, lack of democracy and the presence of incentive problems. For these authors, it is possible that foreign aid is not appropriately used in a weak institutional and political environment. As these funds are primarily granted on the basis of poverty, receiving countries would be incited to implement bad development policies to benefit from foreign aid, or to qualify for some advantageous forms of international assistance. This phenomenon is known as the "Samaritan's dilemma" described by Buchanan (1975) where aid reduce the incentive and effort of the recipient.

On the other side, remittances, contrary to foreign aid, are directly received by poor households and people in needs and not by governments as intermediaries. One can suppose that this is the reason why remittances would be a more efficient way to allocate resources and serve households' interest than foreign aid. Even if the criticisms against foreign aid related to incentives problems are also raised in the literature

analyzing the effectiveness of remittances, however, remittances are private funds whose use do not rely only on one user but two users, households and migrants themselves. Although the same factors (the incentive problems) raised in the literature to explain the low effectiveness of foreign aid can also make remittances ineffective, this can be mitigated by the existence of two potential holders of remittances and the willingness of migrants to use their funds in their countries for their own interests (investment for future return at the home country, retirement or individual project, etc.). The incentives problem related to remittances mentioned in the literature are therefore likely to affect households receiving money from their parents abroad but not migrants who have their own funds for their projects. Although migrants' families could be tempted to reduce their work effort and would not efficiently use the funds received, as they know they are insured by their relatives abroad, however, migrants have the objective to use some of their funds directly for productive projects.

As previously mentioned, much of the literature has emphasized that remittances are entirely used to meet households' consumption needs and therefore they can not be considered as a source of capital to finance development in migrants' home countries. Baldé (2009) finds that there is no direct influence of remittances on growth in SSA. However, the above results suggest that even if remittances do not have direct effects on growth, they can have indirect effects that go through certain channels of growth such as savings and investment. The use of these funds for savings or investment can be done either by households or through migrants themselves. Even if poor households prioritize basic consumption (food, clothing, ceremonies), migrants may use some funds towards productive activities. In a survey conducted by the "*Comité Français pour la Solidarité Internationale (CFSI)*" and published by the "*Agence Française de Développement AFD*" (2004), migrants from Mali, Senegal, Morocco, Comoros and Vietnam living in France classified their different motives to remit by importance and priority as follows: 1) Assist family; 2) Build houses; 3) Build community infrastructure (health services, schools ..); 4) Start a business; and 5) Open a saving account. This shows that even if the priority is to support family, savings and investment are part of the possible uses of migrants' remittances. According to the World Bank cited by Salomone (2006), there

are at least four factors and conditions that may decide households and migrants in using remittances: 1) the degree of household dependency on remittances, the more they are dependent on these funds, the less they save and invest; 2) the nature of remittances' recipients, women are more concerned about smoothing their consumption; 3) the existence of a potential target destination for remittances (purchase of goods or education for example); and 4) the level of households' recipients income and the existence of credit constraints. To this; we add the volume of remittances received. While a low amount received enable households to meet daily consumption needs, a relatively high amount allows for additional uses such as savings or investment.

It is therefore important to differentiate remittances that are sent for supporting family with priority to meet daily needs; in this case, migration is a family strategy that helps addressing households' poverty (Ndione and Lalou, 2005), to remittances sent by migrants for their personal interest. The use (productive or not) of remittances therefore depends on the motives that push migrants to send money, which can be either an altruistic motive or savings and investment motives. Some African and European banks have established agencies in countries with high immigration and emigration to capture migrants' savings and help them channel these savings towards productive projects in their home country. The "*Compagnie de Banques Internationales de Paris CBIP*", owned by CBAO, a Senegalese bank, was created for migrants' banking needs. As a result, thousands of migrants' bank accounts opened (Airault et al., 2008). The "*Banque de l'Habitat du Sénégal BHS*" has developed an international banking network to capture Senegalese migrants' savings with agencies created in some countries like the U.S. where three BHS agencies were established, two in New York and one in Atlanta (Ndione and Brokhuis, 2006).

The initial economic conditions and living standards influence and determine how remittances will be used along with the orientation towards productive or non-productive activities. A relatively good initial economic situation allows for more opportunities to migrants and their families to use remittances for savings and investment. Moreover, it is this situation that allows resources mobilization to finance

migration without contracting debt. This in turn allows households and migrants not to have future debt repayment, leaving more opportunities to save or invest future remittances. However, when migration is financed by debt, remittances will be used for several years to repay debt and meeting daily consumption needs. Thus, in the short-run, financing migration by debt could motives for savings and investment.

For very poor migrants' families, priority is to raise their consumption level rather than saving or investing. We therefore believe that the levels of development and income in the migrants' home countries play a crucial role on remittances use as savings and investment. There must be a certain income and development threshold below which households and migrants do not have the capacity to save and invest remittances. This threshold could be composed of the basic consumption for household including food, clothing, etc. Thus, the macroeconomic conditions in countries and communities of origin could be crucial for a productive use of remittances, as these macro-economic conditions leading to migration may also limit opportunities for savings and investment of remittances.

Foreign aid, if efficiently used, can be an important complement to remittances as it may enable households to have this subsistence income and to be above the threshold income so they can use a larger share of remittances towards savings and investment.

Conclusion

The objective of this paper is twofold: First, it investigates the macroeconomic impact of remittances and foreign aid on savings and investment in SSA; and second, it allows us to do a comparative analysis of the effectiveness of remittances and foreign aid in stimulating savings and investment in this region. Our results show that contrary to the pessimistic literature, remittances positively and significantly influence savings and investment in SSA. Therefore, remittances are not entirely spent on basic consumption needs; but are also either saved or invested. Interestingly, we find that although the volume of remittances are lower than foreign aid, the former influence more savings and investment in SSA. The impact of remittances is 6 to 7 times greater than that of foreign aid even though the amounts of aid to SSA represented more than 15 times the remittances for some years. Remittances help relax liquidity constraints and when invested, they can keep busy family members in countries where unemployment is high. However, when foreign aid is efficiently used, it can be an important complement to remittances by allowing vulnerable households to have income above the threshold subsistence level so they can use larger share of remittances for savings and investment purposes. Even if remittances do not have direct effect on growth, it can have indirect positive effect on growth through saving and investment.

This study therefore leaves us important questions. Is the positive impact of remittances (higher than the impact of aid) on key development variables in SSA a reason to stop foreign aid? Is it a sufficient reason to replace foreign aid which is a public capital flow that is increasingly criticized and unpopular in some developed countries by remittances that are private capital flows? For international institutions, remittances and foreign aid are important complements but not substitutes because remittances can not finance major public projects such as roads, railways, airports, contrary to development aid, at least when properly used. According to Grabel (2009), skeptics of foreign aid consider remittances as the new "private foreign aid" (Adelman (2003)) but remittances and other international private capital flows are not substitute

neither for foreign aid nor for economic development strategies that mobilize and channel resources for development purpose.

APPENDICE

Table 4 : Définition and source of variables

Variables	Definition	Source
GDPPC	Real GDP per capita, 2000 \$ constant	World Development Indicators (2006), World Bank
REMIT	Migrants' Remittances, % GDP	
AID	Foreign Aid, % GDP	
INV	Gross Fixed Capital Formation (% of GDP)	
GS	Gross savings, % GDP	
DEP_INT	Deposit interest rate	
LEND_INT	Lending interest rate	
OPEN	Openness as a ratio of imports and exports on GDP, %	
INFLAT	Inflation rate measured by the change in Consumer Price Index	

Table 5 : Descriptive Statistics for the "Savings Equation"

	Mean	Median	Minimum	Maximum	Std.-dev.	Observations
Savings (% GDP)	13.24	12.80	-15.67	65.95	10.93	513
GDP per capita (\$ constant)	832	328	75	7443	1232	513
Remittances (% GDP)	2.81	1.05	0	38.32	4.57	513
Foreign Aid (% GDP)	12.05	10.11	-0.28	66.86	10.73	513
Deposit interest rate (nominal)	9.16	7.5	2.43	39.33	6.61	513
Inflation	10.55	6.81	-13.06	122.87	15.13	513

Table 6 : Descriptive Statistics for the “Investment Equation”

	Mean	Median	Minimum	Maximum	Std. dev.	Observations
Investment (% GDP)	20.18	18.75	5.49	51.81	7.33	411
GDP per capita (\$ constant)	1023	423	75	7443	1337	411
Remittances (% GDP)	3.23	0.83	0.00	38.32	5.76	411
Foreign Aid (% GDP)	11.39	9.10	-0.28	75.23	11.15	411
Lending interest rate (nominal)	18.40	16.00	6.00	63.58	8.59	411
Openness	77.14	61.28	6.32	195.56	41.00	411
Savings (% GDP)	14.76	13.76	-13.29	65.95	11.36	411

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