Mobilizing International Capital for Arab Economic Development: With Special Reference to the Role and Determinants of FDI*

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ے منص

أتعيثة رأس الخال العالى للتنمية العريبة

مع إشارة خاصة لدور ومحددات الاستثمار الأحنبي المناشر"

تهدف هذه الورقة إلى تراسة التدفقات الأجنبية في الدول النامية وفي الدول العربية بوجسه الخصوص، مع إشارة مفصلة حول دور ومحددات الاستثمار الأجنبي المباشر في العالم العربسي. بالنسبة للتنفقات الر أسمالية، تجد أن الدول العربية تحصيل على ٧٠،٥٪ من مجموع التنفقات السي. الدول النامية في حين تصل نسبة الثانج الإجمالي العربي ٨% من مجموع الناتج الإجمالي للسدول للنامية. وقد استقرت هذه التدفقات الي العالم العربي خلال العقديل الماضيين عالي حوالي ١١٠ مادار دولار في السنة، منها ٧٠% كندفةات خاصة و ٤٤% كاستثمار أجنب ي مباشس بالنمسة الأخير ، تحصل الدول القامية على حوالي ٧٧%من المحموع العالمي لهذه التدفقات وتحصل الدول العربية على ١% فقط مع العلم أن نسبة الناتج الإجمالي العربي يصدمك السي ٢% مسن النسانج الإحمالي العالمي. ونتزكز تتفقات الاستثمار الأجبي العياشر في سبت دول عربيسة؛ المغبرب، تونس، غمان، السعودية، مصر ، الأردن. وقد قدرت الورقة أن قجوة الموارد في الليدول العربيلة ستصل إلى حو الى ٨٨% من الناتج الإجمالي العربي خلال الخمس عنسرة سستة المقبلة. ومسن المستحسن أن تمول هذه الفجوة عن طريق الاستثمار الأجنبي المداشر لأن، بالإضافة إلى أثره في بادة الاستثمار الكلي في الاقتصاد، بشكل الاستثمار الأحنب قفرة نوعية في عملية الانتاج بسلب المنافع التي تأتي من نقل التكنولوجيا والخيرات في الإداراة والتنبويق، ولهذا فقد وجدت الورقة أن المحددات المثنجعة للاستثمار الأجنب المباشر في التوع في الصادرات، استقرار فني منبعر الصرف، و اتفاقات تجارة حرة مع اقتصادات كبيرة للحجه و الأنبو اق (كالاتحاد الأوروبي)، و انشاء وتطوير قدرات الشركات العربية لتصبيح شركات عابرة الحدود

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1- Introduction

By and large the Arab economy does not constitute a homogenous entity since its various economies have different structures and resource endowments. For instance, economies of the Gulf Cooperation Council (GCC) have a combined population of no more than 28 million and the share of the hydrocarbons sector in their GDP exceeds 38% (in addition to having close to 45% and 15% of the world's total oil and gas reserves respectively); whereas the Moroccan economy alone has a population of more than 30 million and the share of the hydrocarbons sector in its GDP does not account for more than 3%⁽¹⁾. Yet, despite these structural differences, Arab economies remain tied together through a web of intra-regional flows in trade, labor remittances, and financial and development aid, the result of which is that the Arab economy still displays a reasonable degree of similar performance among its various economies. Hence, one is not guilty of over generalization if one sometimes speaks of the Arab economy in the aggregate.

This aggregate Arab economy had a lot to cheer about in terms of its social development in the last three decades. From 1970 to 1998, life expectancy at birth increased from 52 to 68 years; secondary-school net enrollment ratios rose from 35% to 66%; and the Cini coefficient declined from 0.42 to 0.38⁽²⁾. Also, up until 1985, the economy's performance was no less impressive: Arab per-capita GDP grew at an average annual rate of 3.4%, and the Arab world as a result was able to rise to a middle-income status. But from 1985 onwards, GDP per-capita declined by about 1.5% annually, and the achieved social advances were not enough to reverse that trend. Also, paralleling those movements in per-capita GDP in each sub-period were changes in investment and net capital flows: between 1970-85, as a % of GDP, Arab investment and net capital flows averaged

26.5 and -10.5 (net creditor) respectively; whereas since 1985, the corresponding figures averaged 21.5 and 3.5 (net debtor). And it is no coincidence that during the first half of the period the Arab (oil) terms of trade more than tripled, whereas in the second half of the period they were almost halved (the recent increase in the price, not withstanding). To a large extent, then, the Arab economy was still following the roller-coaster ride of the price of oil.

That is not to say that there were no attempts at adjustment. During the second half of the period, most Arab countries worked at restoring macroeconomic stability, and at restructuring their economies to allow markets and the private sector to have more say in better allocating resources and in generating more income. As important, there were attempts at diversifying their economies and at reducing their reliance on traditional resource-based exports, such that by 1998 the share of manufactured exports in total merchandise exports more than doubled to reach 17%. But this accomplishment is still modest, when one compares it with the developing countries' share of 68% and when one considers that the Arab world's share of total manufacturing value added in technology goods is only 4% that of the developing world.

At the same time, the high population growth rates of the past means that Arab labor force will grow by more than 3% in the coming 15 years, so more and better investment is required to get this larger labor force employed and to enable it to produce goods of value. But more quantity and better quality investment needs more foreign capital to be attracted so as to complement available domestic capital. In this respect, the Arab world received in the 1990s an average of \$ 10 billion only in net capital inflows at a time when the developing world received twenty times as much. Capital inflows are, however, a mixed

blessing. On the one hand, they could destabilize the macroeconomic conditions of a country by worsening its competitiveness increasing its exposure to external stocks, and reducing its ability to pursue an independent monetary policy. On the other hand, they could discipline capital markets by forcing reforms and regulations to the financial sector; and, more crucially for our purpose, they could augment investible resources and provide a vehicle for investors to pool risk. This is particularly the case of foreign direct investment (FDI), which not only brings in greenfield investments and helps restructure privatized industries, but also facilitates technology transfer and upgrading. Thus the need for FDI mobilization in the Arab world.

The purpose of this paper is to analyze aspects and issues relating to the mobilization of international capital for Arab economic development, with a special reference to the role of FDI. In section II, we present a description of the types and size of net capital inflows to both the developing and Arab world, and study the changes in the composition of these flows and the factors driving these changes over the last two decades. Section III provides a simple, open-economy income determination framework to highlight the significance of capital flows to the real economy, and to calculate the size of the savings-investment gap in the Arab world and the limited role that FDI has played in filling this gap. Using a framework that utilizes the concept of the incremental capital-output ratio, section III also presents projections of the size of the savings-investment gap for the year 2015 based on two scenarios: scenario one, assumes the same average GDP growth rate as the one that prevailed over the 1987-98 period; and scenario two, assumes a GDP growth rate of 7% needed to absorb the increase in the labor force. Section IV concentrates on the global distribution of FDI and the position of the Arab countries in this distribution. In section V, we study the economic and political determinants of FDI in the Arab world, and the analysis reveals that Arab prospects lie in attracting efficiency-seeking FDI and that economic diversification is one of the best means to attract this type of FDI. We also undertake a small digression, comparing China's FDI experience, the most studied country when it comes to FDI, with that of the Arab world and indicating the importance of cultural affinity in attracting FDI. Lastly, section VI concludes the paper by emphasizing the need to improve the investment environment in the Arab countries, not only to attract more FDI but also to invigorate domestic investment. In this respect, priority should be given to real sector reforms that aim at diversifying the economic base and upgrading the quality of human resources.

II- International Capital and Financial Flows to Developing and Arab Countries: Trends and Composition

It is widely accepted that international capital flows to the developing countries took an impressive increase in the early 1990s⁽³⁾. Initially, such an increase was surprising, coming as it were on the heels of the debt crisis that rocked the developing world in the 1980s. But it did not take long for the surprise to fade away and give rise to an additional consensus on the causes behind these large inflows: on the "push" side, it was lower interest rates in the developed countries in the early 1990s as well as the reduction in communication and transaction costs; and on'the "pull" side, it was better macroeconomic policies and fundamentals in reforming developing countries⁽⁴⁾ A look at the numbers can give us a quantitative feel of the nature of this increase and its later developments. As table (I) shows, between 1980-89 (the dates marking roughly the beginning and the end of the debt crisis) international capital flows, as measured by inflows (gross inflows minus resource aggregate net

amortization or principal repayments), did stay the same at \$ 82.6 billion, but by 1994 they had increased 2.7 times to reach \$ 220.4 billion. However, although there were noticeable increases thereafter, they were disrupted yet again by another (Asian) crisis in 1997-98 such that by 1999 capital flows totaled \$ 290.7 billion only. As a result, these flows seemed to have peaked in 1997 and their rapid acceleration seemed to have ended in 1994 (the largest increase was in 1992-93 at 45.3%). More important, and perhaps more puzzling, is that the surge in capital flows was not accompanied by a corresponding surge in growth rates: the average annual growth rate of real GDP for the developing countries was 3.5% between 1990-98, slightly higher than the rate of 3.2% in the 1980s⁽⁵⁾! That could mean, among other things, that different regions were affected differently by these flows due to differences in the flows' components and uses, a point that we will revisit below.

But what are these flows and what are their components? The flows comprise two sources, official and private. Official flows are loans from multilateral organisations and loans and grants from bilateral sources. Private flows are composed of foreign direct investment (including equity capital, reinvested earnings, and intra-firm loans), portfolio investment in equity and bonds, commercial bank lending, and other, mostly traderelated lending. Table (1) lists the behavior of these components as a percentage of aggregate net resource flows, and it reveals some interesting results: flows have become predominantly private (averaging more than 80% in the 1990s); FDI have become the favourite mode of investment followed by portfolio investment (which was close to zero in the I 970s and I 980s) thus implying, to a large extent, a transfer of risk from debtor to creditor; and bank lending, after shrinking to 1.6% in the aftermath of the debt crisis in the 1980s, recovered to 15% in

1997 to be "burned" again in the wake of the Asian crisis (falling to -3.9% in 1999). In other words, what distinguishes capital flows to developing countries in the 1990s is that more of these resources are from and going to the private sector and predominantly are in the form of equity capital. In addition, it is interesting to note some of the macroeconomic features of these Unlike long-term bank loans and FDI, portfolio investments can be reversed in a short time. When capital inflows of this type have found their way into the banking system and have pushed up domestic expenditures, their reversal can engender a crisis in the domestic economy through a decrease in asset prices, jump in interest rates, and devaluation of the currency. And if the financial system is characterized by weak banks with poor regulations and supervision, then riskier and reckless lending can exacerbate the crisis by creating liquidity (and solvency) problems in the banking system, as Asia discovered to its dismay in 1997-98⁽⁶⁾. These problems, of course, come on top of the initial effects that large capital inflows can cause such as overvalued exchange rates and trade and current account deficits (7). The point is that, when it comes to the role of capital flows in financing growth, attention should be placed on managing as well as attracting these flows (8).

The question of attracting capital flows brings us to the Arab countries. What is truly unfortunate about the Arab world is the extent to which it has stayed outside the surge of capital flows going to developing countries. At a time when capital flows in the latter increased from \$82.6 billion to \$290.7 billion between 1989-99 (Asian crisis and all), capital flows to the Arab countries showed no trend at all, as can be seen from table (2). They averaged close to 2.5% of total developing countries' flows during the same period, against a share of GDP of 8%, and never exceeded \$13 billion. And as table (3) shows, this contrasts

unfavorably with other regions in the developing world, notably East Asia and Latin America, and increasingly Central Europe, which attracted more than 75% of total developing countries' capital flows. As a result, Latin America's increasing attraction of these flows (it only received 11% of total flows in 1989) helped increase its productive capacity and its GDP growth rate to 3.6% between 1990-98 from a rate of 1.7% in the previous decade, whereas East Asia's especially FDI in China, use of these flows helped its rate of GDP growth of 8% that was achieved in the 1 980s to be maintained in the 1 990s as well.

Although the Arab world managed to grow at an annual real GDP rate of 3% between 1990-98, and managed to evade the Asian crisis because it avoided portfolio investments, its growth performance had a lot to do with the strength of the oil price in the 1990s. Also, in terms of GDP per capita, the Arab world grew hardly at all (its average annual population growth rate was 2.8%). In this respect, enhancing per-capita growth benefits from enhanced capital inflows to finance an aging infrastructure, to bring in new projects and technology so as to diversify the productive structure, and to raise social capital for a young and rapidly growing population and labor force (the Arab world's dependency ratio was 0.7 in the 1990s). There are some positive signs, however. As table (2) shows, there seems to be an increasing reliance on private capital flows (away from official flows of concessional and non-concessional loans, and grants) and more of these flows seem to be coming in the form of FDI. But, needless to say, more flows have to be attracted. We will have more to say about what determines these flows and how they can be attracted in the context of FDI in section V.

III- International Capital and Financial Flows: Significance to the Real Economy and Financing the Savings-Investment Gap in the Arab Countries

A- Resource Gap

The importance of net resource flows to the Arab world can succinctly be shown using the concept of the resource gap. As is well known, the supply of resources in an economy at a given period of time is equal to GDP plus imports, which in equilibrium is equal to or claimed by domestic absorption A and exports X. Domestic absorption, in turn, is the sum of private and public consumption C and investment I. Hence:

$$GDP + M = C + I + X \tag{1}$$

Since domestic savings are domestic resources not consumed (GDP - C), (1) can be expressed as:

$$I = S + (M-X) \tag{2}$$

Equation (2) is the basic relation which shows that domestic investment is partly financed from domestic savings and partly from the excess of M over X. The latter constitutes the resource gap that needs to be financed from foreign sources. Notice that the resource gap can arise from either a higher I for given S, or a lower S (higher C) for given I, alternatively, foreign resources can be used either to boost investment or consumption.

To investigate the size and variation of the resource gap for the Arab world, and its position vis-à-vis the rest of the world, tables (4), (5), and (6) present respectively the ratios (% of GDP) of domestic savings, investment, and resource gap for the Arab countries, divided into GCC and non-GCC countries, and for the developing countries and the world. Two interesting patterns can be deduced from the tables. First, as expected, among the Arab countries the GCC with their higher per-capita GDP enjoy a resource surplus whereas the non-GCC have a resource gap. But, buoyed by their increase in per-capita income and macroeconomic reforms, the non-GCC countries' savings ratio has been increasing and in the process helping to narrow its and the Arab countries' resource gap⁽⁹⁾. Second, not only the Arab world has a larger resource gap than that of the developing countries, but also its propensity to save and invest is between 5-6% less than that of the latter and 1-2% less than that of the world. In other words, the Arab world relies more on foreign savings to finance a smaller level of domestic investment. It is not surprising, then, that at such relatively low ratios of savings and investments, Arab per-capita GDP has been stagnant, if not decreasing.

B - Growth Targets and Investment

Given the lackluster growth performance depicted above, it is worthwhile then to consider the viability and requirements of higher future growth targets for the Arab countries. A simple framework to use for the purpose is the one that involves the incremental capital-output ratio (ICOR). The latter gives the change in capital K needed to produce one unit of GDP:

$$ICOR = \frac{dk}{dGDP}$$
 (3)

Divide (3) by GDP, and since dK = I, we get:

$$ICOR = \frac{i}{g}$$

$$i = ICOR.g$$
(4)

where i, is the investment ratio and g is the growth rate of GDP. Equation (4) will be utilized to generate, for given ICOR, the desired i that is needed to achieve the target g up to year 2015.

To calculate i, we first have to determine ICOR and specify g. Regarding ICOR, we are going to use the historical (over the 1987-98 period) and the adjusted (accounting for non-oil GDP only) ICOR as calculated from equation (3) for the Arab countries and the GCC respectively. As a result, their corresponding values would be 4.5 and 4.35. For the non-GCC, we are going to adopt the estimate by Dhonte, et. al (2000) of 4.25 for the projected ICOR up to year 2015 (a lower ICOR because of the greater incentive and capability by non-GCC countries to improve their investment efficiency, given their lower per-capita GDP and their better reform record). As to g, we have two scenarios. Scenario one assumes that the average annual growth rates over the 1987-98 period will be maintained till year 2015, with population growing at the annual rate of 2%. These growth rates for GDP expressed in US\$ are 5% for the Arab countries, 6.1% for GCC, and 5.4% for non-GCC. Scenario two assumes a growth rate of 7% for all three groups, with the same rate for population growth as scenario one. A target growth rate of 7% is what is needed to absorb the increase in the labor force, which is estimated to grow at 3% over the projected period⁽¹⁰⁾. Table (7) gives a summary profile of the two scenarios with the corresponding figures for i and per-capita GDP for all three groups.

What about savings? We expect the savings ratio to increase with the rise in per-capita DP, nd ppendix I provides a regression equation that captures this effect. Accordingly, table (8) records the projected ratios for savings, investment, and the gap between them over the 1998-2015 period. The gap is especially wide for the non CC ountries ut it is not dissimilar to the gap they experienced in the late 1980s to mid 1990s. Also, the gap for the Arab countries as a whole could average over the period \$15 and \$70 billion under the

assumptions of scenario one and two respectively. There are three reservations that can be made regarding the projections in table (8). First, they naturally depend on the validity of the specified assumptions. Second, and according to the Feldstein-Horioka hypothesis (1980), resource gaps usually start to narrow in the medium run because of the resulting changes in macroeconomic conditions and the imperfect mobility of capital. Third, and most important, where would the sources of financing come from? As we saw in table (2), most of the financing can only come from private sources, including FDI and portfolio investments. But these are inflows that are driven by economic especially in the context of portfolio fundamentals and, investment. require proper institutional and regulatory frameworks for their effects not to be disruptive.

C - Financing

To better appreciate the financing of the savings-investment gap in the Arab world we need to revisit the simple open-economy income determination model introduced earlier. Specifically, since net external financing is undertaken through the capital and financial accounts of the balance of payments, and since the movement of these assets or resources involve the payment of interest and/or profits, equation (1) has to be adjusted to account for these factor or resource payments. Adding the latter to equation (1) transforms GDP to GNP (Gross National Product) and the trade balance to the current account balance, CAB. As a result, equation (2) now reads:

$$I_{n} = S_{n} - CAB \tag{5}$$

where I_n and S_n are national investment and savings respectively. Equation (5) is the familiar but fundamental relation that ties the source of financing of national investment to national savings and to net external financing that is equal in magnitude to the CA deficit. Net external financing can come from: unrequited

transfers; borrowing; FDI; and foreign portfolio investment. The sum of these sources constitute the capital and financial account balance, KAB. If KAB exceeds the current account deficit then the country will accumulate international reserves R, and if the reverse case holds then the country will draw down its stock of R. Hence, balance of payments equilibrium implies that the sum of the current and capital accounts and the change in international reserves ΔR be zero:

$$CAB + KAB + \Delta R = 0 (6)$$

Note that, for equation (6) to hold, an increase in reserves is recorded as negative ΔR whereas a decrease in reserves as positive $\Delta R^{(11)}$.

The significance of the basic relation (6) can be seen from tables (9) and (10), which contain for the Arab and developing countries respectively the data of the variables in equations (5) and (6) as a percentage of GDP. Three important findings can be detected from these tables. First, given that Arab investment ratios remained steady at about 21% and the savings ratios fluctuated between 22.47% and 17.67%, it seemed that, in comparison with developing countries, more of Arab net external funds were going towards the financing of consumption rather than investment⁽¹²⁾. This of course denied the Arab economy the opportunity to use more of its external funds to enhance capital formation and growth. Second, the Arab world had to rely more often than the developing countries on its reserves (positive ΔR / GDP) to fill the gap between its savings and investment ratios. This means that foreign savings were less accommodating in financing current account deficits in the Arab countries than elsewhere in the developing world (13). Third, at least up until 1997, developing countries were receiving much more net FDI (inflows minus outflows) as a percentage of GDP than the Arab countries. More important, net FDI seemed to be financing a larger fraction of CA deficits (and/or contributing more to international reserves) in the developing than the Arab countries.

In sum, the relation between capital flows and the real economy in the Arab world seems to be a tenuous one. And it is against this background that more FDI appears to be increasingly needed in the Arab countries facing external imbalances and stagnant investment.

IV- Foreign Direct Investment: Importance, Global Distribution, and Position in the Arab Countries

The above emphasis on FDI is well founded because of the important role that FDI can potentially play in the economy. Although FDI inflows are largely autonomous, in the sense that they least accommodate current account financing requirements, they are however the least volatile of capital flows and, more important, can have direct and indirect effects on economic growth. The stability of FDI stems from the fact that direct investors have a longer-term view of the market thus making them more resistant to herd behavior, and from the sheer difficulty of liquidating assets at short notice. The direct effect on growth arises from higher capital formation, and the effect is more significant if FDI is complemented with human capital⁽¹⁴⁾. There is a concern that FDI might crowd out domestic investment, in the sense of reducing the latter, not total investment, but the bulk of the evidence does not support this view, especially when FDI is engaged in a new production activity that would not have taken place domestically at all⁽¹⁵⁾. The indirect effect is less straightforward, and it emanates from the efficiency gains that are generally associated with the technology transfer and competition that FDI generates. The evidence so far seems to support the presence of this effect in East Asia and parts of Eastern Europe (16). Also, FDI is always associated with increased trade: exports increase because foreign affiliates of multinationals are more knowledgeable than local firms in serving foreign markets, and imports increase because of more capital-goods imports that are needed for production by the affiliates and because of FDI-induced growth in income (the increase in imports will be less, and the savings in foreign exchange will be more, if some of the FDI activities are import substituting)⁽¹⁷⁾. As a result, although FDI makes more foreign exchange available in the short run, its medium-to long-run impact on the current account (and its consequent role as a source of relief for foreign exchange shortages) is ambiguous, given the increase in both imports and exports in addition to the repatriation of profits⁽¹⁸⁾.

As to the distribution of FDI, table (11) shows that, for the most part, FDI remains a developed countries' affair: the share of FDI inflows going to developed countries peaked at 79% in the run-up to the EU project in 1992, and then it declined thereafter to reach 59% in 1997, but rose again to more than 70% after the Asian crisis. In the case of FDI outflows, the dominance of the developed world is even more prominent, since it still constitutes close to 88% of total outflows (EU 56%; USA 25%; and Japan 7%). The developing countries' share of FDI inflows, naturally, mirrored that of the developed countries, but its average was higher by at least 8% in the I 990s than it was in the 1980s; and, as we saw in table (I), more of the capital flows to developing countries are now coming as EDI. But the distribution of FDI in the developing world, paralleling the distribution of other capital flows, remains extremely uneven, with East Asia (China alone absorbs close to 26% of all developing countries' FDI inflows) and Latin America, and increasingly Eastern Europe, taking the lion's share. Also, one interesting difference between the developed and developing countries is that the ratio of FDI inflows to GDP remained constant in the 1990s at 0.9% for the former but increased from 0.8% to 1.9% for the latter. This indicates, as we will argue in more details below, that market size is not an important determinant of FDI in developing countries, since FDI grew faster than GDP there; whereas in the developed countries it is, especially given their comparable labor and other resource costs. Another interesting difference between FDI to developed and developing countries is its sectoral distribution: as we can see from table (12), 55% of FDI to developed countries is in services and 35% is in manufacturing, whereas the reverse is true for the developing countries. This difference is of course explained by the relatively larger share of services (manufacturing) in the GDP of developed (developing) countries.

In relation to the Arab world, its very low share of global FDI inflows (at an average of 1% in the 1990s against a share of world GDP of 2%) masks some noticeable differences among its countries. As table (13) shows, FDI is mainly concentrated in six of the Arab countries: Egypt, Jordan, Morocco, Oman, Saudi Arabia, and Tunisia⁽¹⁹⁾. It is mostly undertaken in the oil sector (Oman), petrochemicals (Saudi Arabia), manufacturing, especially textiles, metals, and minerals (all other four countries), and tourism (especially Egypt)⁽²⁰⁾. Also, the ratio of the stock of FDI inflows to GDP in all six countries is comparable to that of the developing countries at 16.5%, with FDI in Morocco and Tunisia starting to act as an export platform to the EU with whom both countries have a free trade agreement⁽²¹⁾. In contrast, the corresponding ratio for most of the remaining countries does not exceed half of the developing countries' average. In this respect, it is important to know the determinants of these variations in FDI among the Arab countries, and this is what we will turn to next.

V- Determinants of FDI in the Arab Countries: The Influence of Economic and Political Factors

Perhaps the most comprehensive framework that captures the determinants of FDI is the one that combines three sets of advantages: ownership-specific competitive advantages (brand name and patent); internationalization advantages (benefits accruing from FDI instead of licensing relationships); and locational advantages (22) . Locational variables embody a tripartite structure that involves the following determinants. First, policy-related determinants, which deal with policies affecting economic, social, and political stability, trade taxes, privatization, and standards of treatment of foreign companies. Second, economic determinants, which focus on resource endowments, market size, cost and productivity of labor and input, and quality of infrastructure (23). The relative importance of the various economic determinants will depend on the motives behind FDI, whether it is efficiency seeking (as an export platform for final and/or intermediate goods), market seeking (tariff jumping and/or driven by larger regional markets), resource seeking, or strategic-asset seeking. Third, business facilitation activities, which relate to investment incentives, post-investment services, administrative efficiency, social amenities (educational and recreational), and subjective proximity (familiarity to language and culture)(24). Surely, this structure involves an exhaustive list, and one has to be selective in identifying the most prominent determinants, and this is what we intend to do below in the context of the Arab countries⁽²⁵⁾. Two relevant points are worth keeping in mind, however. First, investment incentives make economic sense when FDI generates positive externalities (more about this point in Section VI), but competitive bidding for "FDI tournaments" can lead to incentive levels that are not economically justifiable and that have to be balanced against the trade-related investment measures (TRIMS)

permissible under WTO rules⁽²⁶⁾. So, Arab countries who are members of the WTO have to take this into consideration when devising incentive packages⁽²⁷⁾. Second, the reduction in transportation costs and trade barriers is increasing market access and access to global production networks for centralized locations within the triad (especially EU and US), thus encouraging within the latter FDI of both the efficiency-and market-seeking types. As a result, the competition for FDI outside the triad, including the Arab world, is bound to become keener.

Given the potential for increased competitive bidding for FDI, it becomes even more important to understand the determinants of FDI in the Arab world. The determinants that we selected are the ones that, naturally, provided the best explanatory power, and whose data are available. Before we discuss them in some details, a note on the variables that we could not include and on those that we omitted is appropriate. We could not include wages adjusted to productivity because there are no data available for most of the Arab countries, although this variable has proven to be important in other regions⁽²⁸⁾. We also could not include an index of corruption or administrative efficiency for the same reason. Transparency International provides a corruption index for four Arab countries only, and they are (on a scale of 0 = most corrupt, and 10 = leastcorrupt): Tunisia, 5; Jordan, 4.7; Morocco, 3.7; and Egypt, 2.9⁽²⁹⁾. What is interesting is that these are the four countries who have received most of the FDI in the Arab world in the last decade: so either corruption in the Arab context is not harmful to FDI, it "greases" the wheels of commerce, or, had it been less pervasive, the FDI in these countries would have been larger (30). This ambiguity, however, underlines the need for more research to be done on the economic (and civic) impact of institutions in

the Arab world and the extent to which they are investment (un) friendly. Lastly, we did not *include* tax rates because high tax rates can be avoided through transfer pricing and deduction of tax payments by foreign affiliates from the tax liabilities of parent firms in the home country; and because most of the empirical evidence shows that tax rates become inimical to FDI when they are at 40% or higher, and in none of the Arab countries such high rates exist⁽³¹⁾.

The determinants that we omitted are (see the restricted Ftest in Appendix III for the joint insignificance of the omitted variables): stock of FDI, infrastructure quality, and index for FDI openness. The stock of FDI reflects the effect of agglomeration economies in that locational advantages, once attained, tend to perpetuate themselves and to lock-in future FDI (in other words. history matters because of first-mover advantages). This effect is not yet prevalent in any of the Arab countries due to the lack of a critical mass of FDI with the requisite reputation for specialized and differentiated products. On the positive side, though, the absence of such economies means that future FDI will have a chance to spread less unevenly among the Arab countries⁽³²⁾. For infrastructure, we used two measures, percentage of roads paved and telephone lines per 1,000 persons, but neither measure came out to be significant. It is because either the measures we used are not the "appropriate" ones or variations in infrastructure quality are not all that important among Arab countries (33). In the case of the index for FDI openness, the reason that it did not turn out to be statistically significant is because of the asymmetry in FDI requirements among the Arab countries: those who do not have performance and foreign exchange requirements, set ownership limits (Gulf countries); and those who do not set ownership limits, have performance and foreign exchange requirements (most of the rest)⁽³⁴⁾. Perhaps more important as a reason is the discrepancy between the rules and regulations as they appear in the books and as they are implemented on the ground, a discrepancy that naturally gives rise to or is a product of official corruption⁽³⁵⁾.

The determinants that we used in our model are: T, index of tariff and non-tariff barriers ranging from I (least restrictive) to 10 (most restrictive), to check whether FDI is tariff jumping; XDI, export diversification index, ranging from 0 (maximum diversification) to 1 (minimum diversification), to see how flexible resource endowments are and how adaptive comparative advantage is in attracting FD1⁽³⁶⁾. GDPG, growth rate of GDP, to detect for the effect of market size and its growth on FDI; QM/ GDP, ratio of quasi money to GDP, to check for the impact of financial development on FDI since foreign affiliates raise close to 40% of their capital from domestic markets; EX, exchange rate defined as units of domestic currency per 1 \$ US, to ascertain whether weak currencies attract export- oriented FDI; RISK, index of political and economic risk, scaled out of 100 with ratings below 50 are considered high risk and those above 80 low $risk^{(37)}$, D_1 dummy variable equal to 1 for countries that are members of the EU-Mediterranean Free Trade Initiative (Jordan, Morocco, and Tunisia) and to 0 otherwise; D2, dummy variable equal to I for countries in peace with Israel (Jordan and Egypt) and 0 otherwise; and D3, dummy variable equal to I for members of the Gulf Cooperation Council (GCC) and 0 otherwise⁽³⁸⁾. (See Appendix I for data sources).

Table (14) presents the OLS estimates for the coefficients of the above independent variables over the 1993-98 period and for 14 Arab countries. Trade barriers have a positive and significant coefficient, indicating that FDI could be tariff-jumping, especially in big and protected markets like Egypt Algeria, Morocco, and Saudi Arabia. The export diversification

index has a very strong and significant effect, emphasizing the importance of resource endowments and their development in determining FDI in the Arab World⁽³⁹⁾. Since its impact is much larger than that of trade barriers, it indicates that FDI is more elastic with respect to aggregate demand in export markets than to aggregate domestic demand. More important, it shows that, for Arab countries to become successful export platforms, diversification of the economic base is of utmost importance. Especially important in this regard is the upgrading of the human resource and skills base, since there is no way that the Arab countries can compete in skills-based product with a male and female adult illiteracy rates of 26% and 48% respectively, against respective developing countries' rates of 18% and 33%.

The coefficient on GDPG is not significant, and this is not surprising given that GDP growth in the Arab world is still highly correlated with fluctuations in the price of oil and the fact that FDI is attracted mostly as a result of resource endowments rather than market size. The financial deepening measure, OM/GDP, is not significant either, and there are two possible reasons behind the result. First, high ratios of QM/GDP are found in the Gulf countries and Lebanon, the former because of the accumulated oil revenues and the latter because of the important historical role of the banking (and service) sector in the development of the Lebanese economy. But these countries also represent the economies with the least diversified real sector to parallel their developed financial sector. Second, foreign affiliates can tap capital from the international market, if domestic financial markets are not well developed, so their reliance on the latter as a source of funds is not essential⁽⁴⁰⁾. The important point, though, is that as far as FDI is concerned, financial sector development and reform should not take real sector reform and educational precedence over

improvements. Any policy that gives priority to improving the financial sector without at least a concomitant strengthening of the economic-resource base is misguided.

As to the exchange rate, its coefficient is significant but with the opposite sign (though, very small): currency appreciation (a lower EX) increases FDI. This is because capital equipment in the Arab world is mostly imported, so a stronger currency implies cheaper imported inputs and lower production costs⁽⁴¹⁾. The really interesting result is that of the risk coefficient, and it is statistically insignificant. At least during the 1990s political risk was not a significant determinant of FDI (looked at differently, if it were, then Israel would not have received more than \$6.8 billion in FDI between 1993-98). This means that hopes of foreign capital, including FDI, pouring into the Arab world once a comprehensive peace is achieved are grossly exaggerated⁽⁴²⁾. With FDI mainly responsive to underlying economic factors, it also means that peace is not a substitute for a diversified resource base and economic policy reforms.

Regarding the dummy variables, only the coefficient on D₁ is significant. The free trade agreements with the EU is proving to be a stimulus for efficiency-seeking FDI and, as we mentioned earlier, is turning Morocco and Tunisia as export platforms to the EU. On the other hand, free trade among the GCC countries has not yet induced more FDI to service the larger market, simply because it is still more economical to service this market from abroad. Nor have the peace treaties between Israel and each of Jordan and Egypt, partly because political reconciliation has not yet made a notable, favorable dent in their economic fundamentals, and partly because the economic protocols do not aim at an expanded market through free trade⁽⁴³⁾. However, there are signs that the Qualifying Industrial Zone (QIZ) between

Israel and Jordan might ultimately prove to be a magnet for more FD1⁽⁴⁴⁾

How does the FDI experience of Arab countries compare with that of other countries? We will compare the Arab experience with China's, who since 1992 has become the number one recipient of FDI in the developing world and second to the USA in the whole world⁽⁴⁵⁾. In political economy terms, the Arab world and China have two things in common: first, both have to transform a heavily state-led economy to a market-oriented one; and, second, both have to manage the transition with one eye on economic progress and the other eye on political stability. The similarities stop here, however, especially when it comes to the structure of administration and incentives relating to FDI. In this regard, we can specify four differences. First, unlike Arab countries whose reform process followed guidelines from international institutions and donor countries, China's reform process was home-made and was set at its own pace. This helped to delink and insulate FDI policy from other measures in the reform process that could have contained FDI's spread and restrained its growth. Second, almost all of FDI in China is located in Special Economic Zones, China currently has close to one fifth of the 840 such zones that dot the world, in coastal areas across from Hong Kong and Taiwan, primarily to take advantage of the entrepot character of these two places and of their expertise in managing global production and distribution. This also provided FDI activities, to a considerable extent, with a from the center's bureaucratic and geographic insulation regulatory hassles⁽⁴⁶⁾. Third, and more important, the level of China's wages adjusted to productivity is one of the most favorable in the world and its GDP has been growing at an annual per-capita rate of more than 5% over the past twenty years. This means that China has been earning FDI that is both market-and efficiency- seeking⁽⁴⁷⁾. Fourth, and most important, more than 60% of China's FDI comes from Hong Kong and Taiwan, two production centers that moved to China not only because they had lost their cost competitiveness in light-to medium-industrial goods, but also because of subjective proximity in terms of culture and language⁽⁴⁸⁾. And this brings us to a very important characteristic that handicaps the flow of FDI to the Arab world.

It is fashionable these days to argue, perhaps somewhat superficially, that globalization (the unrestricted global flows of goods, capital, technology, and ideas) determines culture and homogenizes cultural norms and practices. But if one looks at the global flows of at least capital and technology, one finds that it is homogeneous culture that mostly determines these global flows. In other words, one finds Hong Kong and Taiwan investing in China, Japan in East-and South East Asia, EU in Central and Eastern Europe, and US in Canada and EU. This idea, of course, does not square perfectly with reality, but the point is that, besides lacking FDI on efficiency-and marketseeking grounds, the Arab world also lacks a "cultural FDI sponsor". Not that the Arab world lacks financial capital, Arab outside capital alone is more than \$500 billion, but it lacks established multinationals with the requisite physical capital, technical know-how, and brand names to consolidate FDI activities in the Arab world. It takes time, naturally, to develop these capabilities but perhaps a good starting point, not withstanding the needed policy and structural changes, would be joint ventures between Arab finance capital and foreign real capital (and the current privatization schemes in the Arab world are a good vehicle for that). The hope is that the resultant technology transfer, and the environment of improved technical

know-how, ould e n ffective pringboard o evelop uch capabilities for indigenous Arab multinationals.

VI - Conclusion and Policy Implications

Arab countries received on average one percent of global FDI in the 1990s compared to 2% of world GDP. Moreover, FDI inflows to the Arab world was concentrated in six Arab countries, namely: Egypt, Jordan, Morocco, Oman, Saudi Arabia and Tunisia and deployed in the oil sector, petrochemicals and manufacturing especially textiles and minerals.

The resource gap in the Arab world over the coming fifteen years could average 8% of GDP. Assuming that a part of the resource gap is to be filled from FDI, the paper has identified some crucial determinants for attracting FDI that could assist policy formulation and guide structural transformation. These are:

- 1- At this stage, most potential FDI will be efficiency seeking for export purposes. Hence the need to diversify the economic base and upgrade the quality of human resources. In other words, real sector and educational reform should be transforming Arab comparative advantage directed goods. Attracting FDI will also skills-based towards to this transformation, thus kick-starting a contribute of structural change and enhanced cycle virtuous specialization.
- 2- Financial sector reform, whether along a bank-based or stock market-based system, is beneficial in its own right. But as far as FDI is concerned, financial deepening is not a stimulus for FDI. As a result, financial sector reforms should take a back seat to real sector reforms or should be under taken simultaneously⁽⁴⁹⁾.

- 3- In the 1993-1998 period, political risk proved to be not a significant factor in affecting FDI. This means that a comprehensive political settlement will not flood the region with pent-up FDI; and FDI will not have a noticeable presence unless the economic fundamentals are there. At any rate, perhaps the best way to reduce political risk is through economic growth (which FDI no doubt could contribute to) since it ameliorates the possibility of conflict by increasing both the income of the disadvantaged groups and the opportunity cost of disruptive political stalemates.
- 4- Exchange rates are a weak determinant of FDI. So the best course, as far as this aspect of commercial policy is concerned, is to maintain stable real exchange rates and overall macroeconomic stability. Also, free trade agreements with richer partners, like the EU or even membership in WTO, would attract more FDI to serve the expanded export markets. Hence, this aspect of commercial policy should be pursued, along with the strengthening of the move that is currently under-way towards an Arab free trade area.
- 5- FDI among the Arab countries would be enriched if there were capable Arab multinationals. To this effect, Arab finance capital -- both domestic and "expatriate", needs to team up with foreign real capital not only to increase FDI and the technological capabilities of the Arab world, but also to develop reputable indigenous multinationals.

Table (1): Developing Countries: Composition of Aggregate Net Resource Flows (1) (Perce	Countries	Compos	ition of A	ggregate l	Vet Resou	rce Flows ⁽	1) (Per <u>cen</u> t	entage Shar	es)
Grand Canada Can	1980	1989	1993	1994	1995	1996	1997	1998	1999
Aggregate Net Resource		82.60	219.17	220.36	219.17 220.36 257.17 313.15	313.15	343.73	318.33	290.70
Private Flower	57.8	49.9	75.6	79.1	79	90.1	88.5	84.1	82.2
FDI	5.3	28	30.1	40.3	40.8	41.8	49.5	53.7	66
Portfolio Equity	0	4 1	23.28	15.9	14	15.7	8.8	4.9	9.5
Bonds	1.4	4.8	16.7	17.3	12	19.9	14.25	12.45	8.6
Bank Lending	36.25	2.7	1.6	4	11.8	12	15	14	-3.9
Others(3)	14.8	10.25	4	1.6	0.4	0.7	0.85	-0.98	1.9
Official Flows ⁽⁴⁾	42.2	50.1	24.4	20.9	21	9.9	11.5	15.9	17.8
CITICIAL I TOWA									

Long-term and excluding IMF. In US \$ billion.

Includes credit from manufacturers and bank credits covered by a guarantee of an exports credit agency.

(4) Includes grants.Source: World Bank (2000a).

E Private Flows Bank Lending Others⁽⁴⁾ Bonds Portfolio Equity Aggregate Net Resource Flows (3) Table (2): Arab Countries (1): Composition of Aggregate Net Resource Flows (2) (Percentage Shares) -37.8 0.398.77 1980 23.6 -9.8 1989 54.5 10.16 19.5 1.68 00 -22.248.5 30.8 1993 12.8 7.79 52.45 32.7 10.231994 8.7 7.8 1995 0.09 48.3 14.15 30.8 11.541996 4.4 -0.181997 46.3 72.1 12.66 17.85 4.6 12.8 42.6 1998 11.807.45

Official Flows (5) Includes Algeria, Djibouti, Egypt, Jordan, Lebanon, Morocco, Oman Syria Tunisia, Yemen, Bahrain, Iraq, Libya, Saudi Arabia. Long- term and excluding IMF. In US \$ billion.

109.8

45.5

69.2

47.55

27.9

26.85

Includes credit from manufacturers and bank credits covered by a guarantee of an exports credit agency.

Includes grants.
 Source: World Bank (2000a).

Table (3): Regional Distribution of Developing Countries' Aggregate Net Resource Flows⁽¹⁾ (Percentage Shares)

Agg	Aggregate Net	to Not	3			Priva	Private Flows					9
	Resource Flows	Flows	FDI		Portfolio Equity	Equity	Bonds	S	Bank and Related L	k and Trade ted Lending	Official Flows	OWS
		3	1003 03	1000	1002 07	1000	╛	1998	1993-97	1998	1993-97	8661
	1993-97	Sect	1993-97	TARE	1773-77	1770					2	210
East Asia and Pacific	797	36	46.4	37.5	39.1	57.8	41.6	4.7	33.1	-18./	24.4	01.0
Edot Asia aliu i acilic		100	3	֓֞֝֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	0 4	10 2	=	1 2 75	22.4	28.2	23.7	10.1
Europe and Central Asia	14.0	10./	12.3	7.4.7	2.4	, 0.0						
Latin America and	30.8	43	32.1	40.5	35.6	11.2	41.5	44.4	41.1	91.9	5.4	20.3
Caribbean						2	-	10.4	17	-1 *	10.7	10.2
South Asia	4.8	4	2.5	2.1	y	2.2	1.4	10:0	1,	4	20.4	30
Sub- Saharan Africa	7.3	4.7	3.7	2.6	4.7	4.4	2.1	0.6	-1.0	<u>.</u>	100.1	1
Out- Canadan ranton		1	3	3	J	7 5	1 7	در 4	0.6	ພ	11.2	0.0
Arab Countries(3)	1.8	3.7	2.9	2.9	4.	5.0	1.0	1	0.0			
\\.		_1 _ 1: T	7 1 Lata 6	1003	07 represen	+ orrange	IIII AT. data far 1002 07 represent average annual flows	,,				

Long- term and excluding IMF; data for 1993-97 represent average annual flows.
 Including grants
 Same as Table (2).
 Source: World Bank (2000a).

Table (4): Domestic Savings and Per- Capita GDP in \$ US of Arab Countries, GCC, Non- GCC, Developing Countries and World (Percentage Ratios)⁽¹⁾

	1987-92 ⁽²⁾	1993	1994	1995	1996	1997	8661
Savings Ratio		1	10.4	20 1	20.0	21.8	18.6
Arab Countries	13.1	17.4		200	27.6	22.7	27.7
GCC	30.6	28.8	31.3	32.2	0.00	33.7	17.10
Non COO	8 9	12.0	13.3	14.1	14.8	15.9	15.2
Noti- occ)3.4	25.5	26.9	27.4	26.9	27.3	26.4
Developing Commiss	22.6	22.2	$\frac{23.1}{23.1}$	23.6	23.5	23.9	23.3
Per- Capita GDP				•		5	2
Arah	2.253	2.312	2.301	2.399	2.570	2.389	2.4/0
500 5140	10.820	11 545	11.400	11.675	12.257	12.154	10.920
	1 138	1 108	1 100	1.166	1.272	1.296	1.323
Noll- occ	1031	1 003	1 090	1.090	1.190	1.250	1.250
Developing Commiss	3 884	4 420	4.470	4.880	5.130	5.180	4.890
AN OTTO	0.00			Alleria I	No. CCC includes: Algoria Egypt Jordan Lehanon	anon Lihva Mauritania	ritania

GCC includes: Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and UAE. Non-GCC includes: Algeria, Egypt. Jordan, Lebanon, Libya, Mauritani Morocco, Sudan, Syria, Tunis, and Yemen. Arab Countries include both GCC and iton-GCC.
 Annual average.
 AMF (1999); IMF (1999).



Table (5): Domestic Investment of Arab Countries GCC, Non- GCC, Developing Countries and World
(Percentage Ratios)(1)

		(± C1 C	THE COLUMN TWO SECTIONS				
	1087_07 ⁽²⁾ 1993 1994	1993	1994	1995	1996	1997	1998
	1707-72	1//5			•	010	7
	21.8	23.0	23.4	22.9	20.6	21.8	23.4
	17.0	1			100	ו	7
SCO	20.9	22.2	22.1	21.1	19.8	21.0	4.04
	1000)	2	٠ ١ ٥) 1
	23.2	23.9	24.4	23.3	22.3	21.0	1.07
	1000	1			200	210	200
our fried	25.2	286	28.2	28.9	28.0	21.8	20.0
vor mino	10.1			2	22.0	22.0))
World	23.7	23.7	23.8	24.1	23.9	23.7	23.2

Same as table (4).
 Annual average
 Source: Same as Table (4).

Table (6): Resource Gap of Arab Countries GCC, Non- GCC, Developing Countries and World

(Per	Carlo or years	(Percent	(Percentage Ratios)(1)	1)			
	1987-92(2)	1993	1994	1995	1996	1997	1998
Arah Countries	-6.7	-5.6	-3.9	-2.8	06	0.0	-4.8
CCC State Commission	9.7	6.7	9.2	11.1	13.8	12.7	3.8
			1 1	0 /	7.5	-50	-7 9
Non- GCC	-14.3	-11.9	-11.1	-9.4	-/-	2.9	
Developing Countries	-1.8	<u>ა</u> .1	-1.3	-1.5	-1.1	نان	02
World	-1.1	-1.5	07	05	- 04	0.0	0.1
11 () LIC							

Same as table (4).

(2) Annual average Source: Same as Table (4).

Table (7): Growth Targets and Investment (Average Annual Percent, 1998-2015)

(22102450 23	minut i ci cont,		
	Arab Countries	GCC	Non- GCC
Scenario One			_
g	5	6.1	5.4
ICOR	4.5	4.35	4.25
i	22.5	26.5	22.95
Per- Capita GDP in 2015 ⁽¹⁾	4,083	21,621	2,336
Scenario Two		:	
g	7	7	. 7
ICOR	4.5	4.35	4.25
i	31.5	30.45	29.75
Per- Capita GDP in 2015 ⁽¹⁾	5,661	25,029	3,032

(1) In US dollars.

Table (8): Savings – Investment Gap (Average Annual Percent, 1998-2015)

	Arab Countries	GCC	Non- GCC
Savings			
Scenario 1	20.60	27.90	19.68
Scenario 2	22.64	28.11	22.75
Investment			:
Scenario 1	22.50	26.50	22.95
Scenario 2	31.50	30.45	29.75
Saving- Investment Gap			
Scenario 1	-1.90	1.40	-3.27
Scenario 2	-8.86	-2.34	-7.00

Table (9): Arab Countries⁽¹⁾ National Savings, Investment, Current Account Balance, and Net External

	17	панстив (т с	CL CETTASE I	(autos)			
	1987-92(2)	1993	1994	1995		1997	1998
I/GDP	21.6	22.05	22.10	21.50		20.70	22.10
S/GDP	18.9	18.50	19.27	20.43		22.47	17.67
CAR/CDP(3)	-2.7	-3.56	-2.83	-1.07		1.77	-4.43
VAB/GDP(4)	3 77	5.28	3.84	86.0		0.15	0.88
Of which not EDI/CDD	0.26	1.09	0.95	1.00	1	1.60	1.45
VB/CDbs	5.11	-0.02 0.57 0.59	0.57	0.59	-0.10	-1.32	2 89
017 071					1	The same of the sa	,

Includes Jordan, UAE, Bahrain, Tunisia, Saudi Arabia, Syria Oman, Kuwait, Lebanon, Libya, Egypt, Morocco, Mauritania, and Yemen

Annual average.

The reason that CAB/GDP is not exactly equal (and Opposite in sign) to the sum of KAB/ GDP and AR / GDP is because of statistical errors and omissions.

Source: Arab Monetary Fund (1999). Represents net external financing both long- and short- term. A negative $\Delta R/GDP$ represents an increase in international reserves.

Table (10): Developing Countries: National Savings, Investments, Current Account Balance, and Net

	Exteri	nai rinancin	rercen	ige Mattus)			
	1987-92 ⁽¹⁾	1993	1994	1995	1996	1997	1998
I/GDP	26.38	5.38 28.60	28.20	28.90	28.00	27.80	26.60
S/GDP	25.16	25.50	26.9	27.40	26.90	27.30	26.40
CAR/GDP ⁽²⁾	-1.22	-3.20	-1.30	-1.50	-1.10	-0.50	-0.20
KAR/GDP(3)	3.15	4.96	2.25	2.75	3.26	1.91	0.38
of which net FDI/GDP	2.01	2.42	2.20	2.82	5.33	4.32	0.63
AB/GDP ⁽⁴⁾	-1.56	-1.20	-0.60	-0.91	-1.46	-0.56	0.02
	1					1000	

Annual average.

The reason that CAB/GDP is not exactly equal (and opposite in sign) to the sum of KAB/GDP and ΔR / GDP is because of statistical errors and omissions.

Represents net external financing both long- and short- term

Source: International Monetary Fund (1999). (4) A negative ΔR/ GDP represents an increase in international reserves.

Table (11): W	Table (11): World and Regional Distribution of FDI Inflows (Percentage Shares)	al Distributi	on of FDI I	iflows (Perc	entage Shai	es)	
** *** *** *** *** *** *** *** *** ***	1087_02(1)	1993	1994	1995	1996	1997	1998
Total(2)	173 5	219.4	253.5	328.9	358.9	464.3	643.9
Total	78.7	60.1	57.7	63.3	58.8	58.8	71.5
Developed Continues	100	25	305	35.1	30.4	27.2	35.7
EU	41.9	5	00.0	10.	2	201	20
ASII	26.6	19.8	17.8	17.9	21.5	23.3	20
Other	10.2	5.3	9.3	10.3	7.1	8.1	5.8 8.0
Devialating Countries	21.3	39.9	42.3	36.7	41.2	41.2	28.5
Doveroping Commiss	10.6	22.3	23.7	19.7	21.2	17.9	10.7
Last Asia and Lastral Asia	1000	4.6	2.8	4.9	4.2	4.6	4
Europe and Caribban	73	97	12.4	10	12.8	14.7	11.6
Lauri America and Campocan	100	0.5	9.0	0.9	-	1	0.6
South Asia	0.2		100	1 3	1 2	1 4	0.7
Sub- Saharan Africa		0.9	1.0	2:1	2.5		0.0
Arah Countries	1.3	2.4	1.5	_	0./	1.0	0.7

Annual average.
 In US\$ billion.
 Source: UNCTAD (1999).

Table (12): FDI Inflows by Industry⁽¹⁾

	(2)	Daning	Countries
Sector/Industry	Developed Countries '	Developing	Continues
Coccos and a	H	Asia ⁽³⁾	Latin America ⁽⁴⁾
All Industries	198.51		42.51
Primary	8.59		3.99
Manufacturing	70.28	i	10.3
Chemical	19.36		0.72
Machinery	8 07		2.29
Floring	3 07		0.35
Electionics			0.22
Transport & Equipment	4.48		24.27
Services	105.24		24.07,
Trade	24 11	4.16	1.37
Finance	9 8 5		5.25
Entance	700		0.1
Real Estate	7.38	1.3	2.1
Communications	5.34	9.74	2.3

In US\$ billion and for 1997.
 Including US, EU, Canada and Switzerland and accounting for 83% of developed countries' FDI inflows.
 South, South- East, and East Asia, and accounting for 99% of the region's FDI inflows.
 Including the Caribbean and accounting for 90% of the region's FDI inflows.
 Source: UNCTAD (1999).



Table (13): Arab Countries: FDI Inflows (\$ US Million)

									1998
<u>.</u>	1987-1992	1993	1994	1995	1996	1997	1998	֓֟֟֓֓֓֓֓֓֓֟֟	Stock of FDI
	1001 100))		_				Inflows	Inflows/ GDP
-		-50	3	-24	447	630	500	2,799	5.9
Algeria	906	103	1 256	\$98	636	891	1,076	16,700	20.2
Egypt	806	493	1,200			3 ,	150		
Libya	52	31	69	9	209		200	7 77 7	13.06
Morneco	203	491	551	332	354	1,0/9	258	4,/24	10.00
Sudan	-ç	-	ı	1	•	98	10	100	
Tunicia	160	562	432	264	238	339	650	5,330	20.0
J. Land		_		ယ	20	25	25	84	12.03
Diponn	_	1,6	3	7	4	'	6	97	10
Mauritania	4	TO	2 1	2	7	20	10	642	10.4
Bahrain	58	-5	-31	-21	+	24	23	1 226	16.53
Jordan	21	-34	3 .	13	16	361	223	1,220	1 75
Kuwait	7	13	•	7	347	20	-10	439	2./3
Ishanan	2	7	23	22	64	150	230	554	3.45
Lenamon	102	143	76	46	75	49	50	2,395	16.9
Oman	105		3 3	2	35	ላ	70	595	5.7
Qatar	10	72	132	74		2000	3 3	36 370	20.4
Saudi Arabia	-35	1,369	350	-1,877	-1,129	2,575	2,400	1 200	796
Svria	67	176	251	100	89	×	100	1,233	4.50
UAE	52	401	62	399	130	100	100	2,099	373
Yemen	198	897	11	-218	-60	-138	100	1,741	0,0

In US\$ billion.
 In percentage terms.
 Source: UNCTAD (1999).



Table (14): Dependent Variable: FDI/ GDP⁽¹⁾

Independent Variable	(1)	(3)
	(1)	(2)
T	0.0955***	0.0665***
	(2.0603)	(2.1333)
XDI	-6.6314*	-5.5751*
	(-4.328)	(-5.2168)
GDPG	0.0411	0.0361
	(0.7797)	(1.2408)
QM/GDP	0.0001	0.0033
	(0.038)	(0.7282)
EX	-0.0009***	-0.001***
	(-2.0226)	(-2.3799)
RISK	-0.0212	-0.0313
	(-0.941)	(-1.5702)
\mathbf{D}_1		0.6112**
		(4.2878)
\mathbf{D}_2		-0.1911
		(-0.8937)
\mathbf{D}_3	-	0.0612
		(0.2909)
Adjusted R ²	0.7766	0.934
F- test: p- value	0.0061	0.0048
N	14 ²	14 ²

Figures in brackets are t statistics.
 Includes Algeria, Egypt, Jordan, Kuwait, Lebanon. Libya. Morocco, Oman, Saudi Arabia, Sudan, Syria, Tunisia, UAE, Yemen.
 * Significant at 1%.
 ** Significant at 5%.
 *** Significant at 10%.

Appendix I

The data sources for the variables are: T from Brown, et. al in Sadik (1999); XDI from UNCTAD, Handbook of International Trade and Development Statistics; GDPG and RISK from World Bank, World Development Indicators; QM and EX from IMF, International Finance Statistics; GDP and I from AMF, National Accounts of Arab Countries; FDI from World Bank, Global Development Finance; and L from AMF, Unified Arab Economic Report.

Appendix II

Following World Bank (1999) and Hussien and Thirlwall (1999), the savings ratio will be modeled as an increasing function of per-capita GDP (PCY) but at a decreasing rate. Specifically:

$$\frac{S}{GDP} = a + b (PCY)^{-1} + u$$

where a and b are parameters and u is the error term. We ran the cross-section regression equation for 15 Arab countries over the 1987-98 period and obtained:

$$\frac{S}{GDP}$$
 = 27.015 - 7738.558 (PCY)⁻¹
(-3.5834) Adjusted R² = 0.4582

Hence, the change in the savings ratio for a given change in PCY can be calculated as:

$$d\left\{\frac{S}{GDP}\right\} = 7738.558 \left\{\frac{1}{PCY}\right\} \left\{\frac{dPCY}{PCY}\right\}$$

which clearly shows that d (S/GDP) gets smaller the higher the level of PCY.

Appendix III

The omitted variables, stock of FDI, intrastucture quality, and index of EDI openness, were statistically insignificant and did not add to the explained variation in the dependent variable, FDI/ GDP. We used the following restricted F-test to check for their joint insignificance:

$$F_{r,n-k-1} = \frac{(ESS_r - ESS_u)/r}{ESS_u/n - k - 1}$$

where ESSr and ESSu are respectively the error sum of squares of the restricted (three variables omitted) and unrestricted (three variables included) models, r is the number of omitted variables, and n-k-I is the degree of freedom from ESSu. As a result, the calculated $F_{3,4}$ is.

$$F_{3,4} = \frac{(0.6199 - 0.2744)/3}{0.2744/4} = 1.677$$

It is less than the critical F-value = 6.59 at the 5% level, so we fail to reject the null hypothesis that the coefficients of the omitted independent variable are equal to zero. Also, the bias in the parameter estimates that is obtained from the omitted variables is small because the correlation between the omitted and included variables is low.

Foot Notes:

1) GCC countries are: Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (UAE).

- 2) The Gini coefficient provides a summary measure of the degree of inequality (0 = no inequality, I = complete inequality), and it reflects the percentage shares of income accruing to segments of the population ranked by income levels. One of the reasons behind the reduction in the Gini coefficient, however, is the fall in per-capita income of the GCC countries after the collapse of the price of oil in the mid 1980s. Also, a standard measure of welfare is the human development index (HDI) which is a composite index of life expectancy at birth, adult literacy rates, and per-capita GDP. In 1997, the HDI for the Arab, developing, and developed countries were, respectively, 0.626, 0.637, and 0.919. For more on human resource development in the Arab world, see Karam (2000).
- 3) See Goldstein (1995) and Lopez-Mejia (1999) for a survey of the issues surrounding capital flows to developing countries in the 1990s.
- 4) One can not forget political factors. Prominent among them is the end of the cold war that firmed developing countries' embrace of global capital markets. It is useful to keep in mind that better macroeconomic policies are not the sine qua non for large capital inflows. For example, Turkey and Brazil received sizeable inflows in the mid 1990s without much progress on such policies, whereas the Arab countries received very little capital inflows from the mid 1990s and on despite their good macroeconomic conditions.
- 5) This explains why the ratio of private capital flows to GDP in developing countries averaged I.2% in the 1980s whereas it stood at 3.8% in 1998.
- 6) If domestic and foreign assets are not perfect substitutes, however, then portfolio investors will refrain from selling when stock prices are low so as to avoid capital losses. In this case the amplitude of the crisis will be a lot less. For more on this point, see Carbo and Hernandez (1996).
- 7) If the country follows a flexible exchange rate system, then capital inflows will appreciate the nominal exchange rate; and if it follows a fixed system, then monetization of the foreign exchange inflows will increase the price level. Either way, the real exchange rate will increase for a given foreign price level.
- 8) Managing capital inflows is one of the hotly debated areas in international economic policy today. Although there is agreement on the

need to strengthen regulation and supervision of individual country's financial system, disagreements are voiced however on three main issues. These are: first, whether a lender of last resort should be part of the global financial architecture; second, whether capital account liberalization should be curtailed or slowed down; and, third, which exchange rate system is most conducive to economic growth and absorbing of external shocks. It is interesting to note here that, besides the echo from the financial crises in emerging markets, the slow down of capital inflows to developing countries after 1998 has something to do with booming capital markets in developed countries. Investors in the latter countries now prefer to keep their money home, and the high-risk high-return investments in high-tech start- ups seem to be substituting for the high risk-return portfolios in emerging markets. See, Lopez-Mejia (1999) and Eichengreen and Mussa (1998).

- 9) The standard deviation of the savings ratio of the non-GCC group followed a declining trend from a high of 19.6 in 1989 to a low of 10.7 in 1998. In general, and according to World Bank (1999), the determinants of the savings ratio (and their effects) are: per-capita income (positive); GDP growth (positive); fiscal policy (ambigious); pension reform (ambigious); financial liberalization (ambigious); external borrowing (negative); foreign aid (negative); dependency ratio (negative); and uncertainty (positive). Also, for the effect of financial liberalization on savings in the North-African Arab countries, see Jbili, et. al (1997); and for the distinction between capacity to save (which depends on per-capita GDP) and the willingness to save (which depends on macroeconomic and policy variables), see Hussien and ThirIwall (1999).
- 10) This relation assumes that participation rates stay constant and unemployment rates do not decline. For more on the relation between labor force and GDP growth, see Dhonte, et. al (2000) and Dervis and Shafik (1998).
- 11) Theoretically, under a purely flexible exchange rate system the balance of payments will balance without any change in the central bank's international reserves. However, a purely flexible exchange rate system is rarely adopted in the real world today.
- 12)Of course, one could argue that, without net external financing, investment would have declined below 21%. But the counter argument to this point is that if savings had stayed the same, then net external financing would have funded more investments.

- 13) Fry (1993) found that in developing countries portfolio investments are the least accommodating, followed by FDI. and short- and long- term bank loans.
- 14)Borensztein et. al (1998) found that FDI's positive impact on growth starts to occur at a human capital threshold of 0.52 years of adult secondary school education. An example of the latter is as follows. If 10^{0} /o of the population above 25 years of age has ever attended secondary school and if, out of this group, only 75% completed secondary school (6 years) with the remaining going only through the first cycle (3 years), then secondary school attainment is: 0.1 (3 x 0.25 + 6 x 0.75) + 0.9 x 0 = 0.52.
- 15)The reason that crowding out occurs is that borrowing by foreign affiliates from domestic capital markets, (which on average constitutes close to 40°/o of all capital raised by affiliates) increases domestic interest rates and, as a result, reduces domestic investment. As to the evidence, UNCTAD (1999) found that FDI can have all three effects on domestic investment: neutral, crowding-in, and crowding-out, with the latter occurring in some countries of sub-saharan Africa and Latin America. Borensztein et. al (1998) found a crowding-in effect for a group of 69 developing countries but the result is not robust to model specification; whereas Lucas (1993) found the same effect for the East-Asian economies, possibly due to the restraints put on foreign equity participation.
- 16) For a survey of the issues surrounding the effect of FDI on investment efficiency, see Dc Mello (1997); for the evidence on Asia, see Chuang and Lin (1999) and Sjoholm (1999); and for the evidence on Czech Republic, see Diankov and Hoekman (2000).
- 17) For the developing countries as a whole, exports and imports increased at an annual rate of 9% each in the 1990s, thus keeping the developing counties' share in world trade at about 32%.
- 18) Theoretically, the effect of FDI on the balance of payments is negative because the net present value of the project in terms of repatriated foreign exchange has to be positive for the project to be undertaken in the first place. But this notion does not take into account the export and import side effects of FDI. For a general discussion of the impact of FDI on the current account see Graham (199\$), and for a technical discussion see Fry et. al, (1995).
- 19) This mirrors the concentration of more than 55% of FDI inflows to the developing world in five countries: China, Brazil, Mexico, Singapore,

and Indonesia. Note that Yemen also has a high ratio of FDI stock to GDP, but the inflow of FDI to Yemen has been erratic, tied entirely to the fortunes of the oil and gas sectors. Also, the ratio is overvalued due to the relatively small Yemeni GDP, which in 1998 was about \$5 billion.

- 20) The new Saudi investment law that was approved in mid 2000 will allow foreign investments in the oil sector, and full foreign ownership of investments in some sectors; see Gavin (2000).
- 21) As part of the Mediterranean initiative, free trade agreements were signed between the EU and each of Tunisia and Morocco in 1995.
- 22) For more on this framework, see Dunning (1993) and UNCTAD (1998).
- 23) For a survey of the economic and political determinants of FDI, see Schneider and Fry (1985), Amirahmadi and Wu (1994), and UNCTAD (1998).
- 24)A survey of foreign investors in Africa reported in UNCTAD (1999) listed the factors that have a positive impact on FDI as: profitability of investment; regulatory and legal framework; political and economic outlook; access to regional markets; trade and tax policies; and availability of low-cost labor. Whereas a survey of foreign investors in Eastern Europe reported in UNCTAD (1998) listed: labor costs and skills; integration prospects; macroeconomic stability; currency convertibility; and subjective proximity to investors.
- 25) The empirical evidence is not easy to interpret because of differing methodologies, time periods, investor nationalities, level of location (regional vs sub-national vs national), and type of industry (manufacturing, service, and primary).
- 26) Incentives could be: fiscal (tax holidays, import duty exemptions); financial (subsidized credit, equity participation); infrastructure; preferential government contracts and treatment on foreign exchange; and granting of monopoly rights and protection from import competition. These incentives are regulated by WTO rules under Agreement on Subsidies and Countervailing Measures. In return for these incentives, governments usually place performance requirements on foreign investors relating to local content, export performance, and requirements on foreign exchange repatriation and surrender. Also, in counterpoint, these requirements are regulated by WTO rules under TRIMS. However, TRIMS apply to most goods only not to services, agriculture, civil aircraft, or textiles. For more on these points, see Brewer and Young (1997).

27) Currently, there are thirteen Arab countries that are either members or have applied for membership at WTO: Algeria, Bahrain, Egypt, Jordan, Kuwait, Mauritania, Morocco, Oman, Qatar, Saudi Arabia, Sudan, UAE, and Tunisia.

28) For evidence on the negative relation between adjusted wages and FDI in East-and South East sia, ee ucas 1993); nd on the evidence in

China, see Liu. Et. al, (1997).

29)On the issues surrounding the question of corruption, see Tanzi (1998): and the role of institutions in growth, see the survey by Aron (2000).

30)Transparency International bases its scores on perceptions of the degree of corruption as seen by business people, risk analysts, and the general public. These perceptions are recorded in surveys, and for a country to have a score it must have undergone at least three surveys; for more on the corruption index, see the site www transparency de. As to the effect of corruption on FDI, most of the evidence points to a negative effect; see, Gastanaga, et. al (1998) and Wei (2000), the latter estimated that corruption's cost could reach the equivalence of a 20% tax.

31)See Gastanaga, et. al, (1998) for the evidence on the impact of tax rates on FDI. It is interesting to note that in the new Saudi investment law no

special tax treatment is forwarded to foreign investors.

32) Wheeler and Mody (1992) found that agglomeration economies are an important determinant of FDI for US multinationals. The agglomeration effects arise from the self-reinforcing impact of specialized and differentiated inputs and spread of reputation.

33)The absence of a significant effect for infrastructure could also be due to incentives such as subsidies on cost of infrastructure. Also, the two measures that we used are the ones for whom data exists for all the Arab countries in the sample. In general though, most of the evidence in the literature points to the importance of infrastructure. See, Cheng and

Kwan (2000) and Wheeler and Mody (1992).

34)Lebanon and Bahrain, and to a large extent Egypt are the exceptions. For a description of the FDI requirements, see IMP (1998). An example of the occasional paradoxical nature of FDI is reported in Onyeiwu (2000). The 1999 Index of Economic Freedom compiled by the heritage Foundation and the Wall Street Journal put Tunisia and Egypt in the "mostly unfree" category. However, these two countries have received substantial FDI relative to the rest of the Arab world over the last decade.

- 35) The discrepancy between legal text and practice affecting FDI rules is also mentioned as one serious concern of foreign investors in the survey on FDI in Africa reported in UNCTAD (1999).
- 36)In all likelihood, the effect of XDI is biased upwards, and it would have been smaller had we been able to find data for adjusted wages and run it as an independent variable. The export diversification index is defined as the absolute deviation of the country share from world structure, or: XDI_j = (Σ_i| S_{ij} S_i|)12 where S_{ij} is share of commodity i in total exports of country j and S_i is share of commodity i in total world exports. For more on the derivation of this index, see UNCTAD (1997).
- 37) Political risk usually refers to a variety of concerns, ranging from production disruption, to confiscation or damage to property, to threats to personnel, to a change in macroeconomic management and the regulatory environment.
- 38)On relative basis, the GCC is considered to be the most "successful" Arab free trade area.
- 39) Riedel (1995) also found that FDI is related to trade patterns in Asia. In general, though, if FDI is tariff jumping then the effect of incentives will be mostly limited since the protected market is the major determinant of FDI. However, if FDI is geared to production of exports then incentives become important.
- 40)A third factor could be the positive effect of financial deepening on savings. A higher ratio of QM/GDP could increase the savings ratio and in the process reduce the current account deficit and its accommodating financing needs, including financing through FDI.
- 41)Onyeiwu (2000) found, for a group of 10 Arab countries, the exchange rate to have a negative effect on capital out flows.
- 42) The negative coefficient of RISK could indicate the possibility of multicollinearity and a look at the correlation matrix revealed a correlation coefficient of -0.6 (below the critical level of -0.8, though) between RISK and EX, the highest coefficient in the matrix. As a result, we ran two regressions with one of these variables included in the specification at a time. We found that the sign, size, and t statistics of the coefficient of EX hardly changed; however, the coefficient of RISK reversed its sign but remained statistically insignificant.
- 43) It is safe to say that neither country will have a free trade agreement with Israel before a free trade agreement is completed among the Arab countries. The only Arab country that has a de facto customs union with Israel is Palestine. For more on the economic implications of peace as it

- relates to trade arrangements in the Arab world, see Bolbol and De Simone (2000).
- 44)To qualify for duty-and quota-free exports to the USA, the QIZ should have at least 35% of its appraised value within the zone. Of the 35%, a required minimum of 11.7% should come from Jordan and 8% from Israel, and the rest from either Jordan, Israel, USA, or Palestine. Also, textiles seem to be among the first industries to attract Jordanian and Israeli investments.
- 45)Between 1993-98, the USA received a cumulative FDI inflow of more than \$530 billion, whereas China received more than \$220 billion.
- 46)China's FDI sites include Special Economic Zones, Open Coastal Cities, Economic and Technological Development Zones, and Open Coastal Areas. The first site is the most important and receives the most generous incentives. As to ownership structure, 55% are joint ventures, 30% are foreign owned, and the rest are mostly cooperatives. For an excellent discussion of Chinese special economic zones, see Ge (1999).
- 47) For a discussion of the impact of FDI on Chinese economic development, see Chen, et. al (1995). And Cheng and Kwan (2000).
- 48)Liu, et. al. (1997) modeled the impact of cultural similarity and found it to be positively related to FDI in China.
- 49) On the role of financial markets and government policy (especially in the context of East Asia). see Stiglitz and Uy (1996) and Singh (1998).

References

- Amirahmadi, H. and W. Wu. 1994. "Foreign Direct Investment in Developing Countries," Journal of Developing Areas, Vol.28, No.:167-90.
- 2- Arab Monetary Fund. 1999. National Accounts of Arab Countries. Abu Dhabi: Arab Monetary Fund.
- 3- Aron, J. 2000. "Growth and Institutions: A Review of the Evidence," The World Bank Research Observer, Vol.15, No.1 (February): 99-135.
- 4- Bolbol, A. and P. De Simone. 2000. "Trade and Economic Cooperation Arrangements in the Middle East and North Africa: An Investigation into their Viability," Processed.
- 5- Borensztein, E. et. al. 1998. "How Does Foreign Direct Investment Affect Economic Growth?" Journal of International Economics, Vol.45, No.1: 115-35.
- 6- Brewer, T. and S. Young. 1997. "Investment Incentives and the International Agenda," The World Economy, Vol.20, No.2 (March): 175-98.
- 7- Carbo, V. and L. Hernandez. 1996. "Macroeconomic Adjustment to Capital Inflows: Lessons from Recent Latin American and East-Asian Experience," The World Bank Research Observer, Vol. 11,No. 1 (February): 61-85.
- 8- Chen, et. al. 1995. "The Role of Foreign Direct Investment in China's Post-1978 Economic Development," World Development, Vol.23, No.4: 691-703.
- 9- Cheng, L. and Y. K. Kwan. 2000. "What are the Determinants of the location of Foreign Direct Investment? The Chinese Experience," Journal of International Economic. Vol.51, No.:379-400.
- 10-Chuang, Y.C and Lin, C. M. 1999. "Foreign Direct Investment, R&D, and Spillover Efficiency: Evidence from Taiwan's Manufacturing Firms," Journal of Development Studies, Vol.35, No.4 (April): 117-37.
- 11-De Mello, L. 1997. "Foreign Direct Investment in Developing Countries and Growth: A Selected Survey," Journal of Development Studies, Vol.34, No. 1 (October): 1-34.

- 12-Dervis, K. and N. Shafik. 1998. "The Middle East and North Africa: A Tale of Two Futures," The Middle East Journal, Vol.52, No.2 (August): 505-16.
- 13-Dhonte, et.al. 2000. "Demographic Transition in the Middle East: Implications for Growth, Employment, and Housing," IME Working Paper WP/OO/XX. Washington, D.D.: International Monetary Fund.
- 14-Djankov, S. and B. Hoekman. 2000. "Foreign Investment and Productivity Growth in Czech Fnterprises." The World Bank Economic Review, Vol. 14 No. 1:49-64.
- 15-Dunning, J. 1993. Multinational Enterprises and the Global Economy. Workingham: Addison-Wesley.
- 16-Eichengreen, B. and M. Mussa. 1998. Capital Account Liberalization. Washington, D.C.: International Monetary Fund.
- 17-Fry, M. 1993. "Foreign Direct Investment in a Macroeconomic Framework," Policy Research Working Papers 1411. Washington, D.C.: World Bank.
- 18-Feldstein, M. and C. Horioka. 1980. "Domestic Savings and International Capital Flows," Economic Journal, Vol.90 (June): 314-29.
- 19-Fry, M. et. al. 1995. "Foreign Direct Investment, Other Capital Flows, and Current Account Deficits," Policy Research Working Paper 1527. Washington, D.C World Bank.
- 20-Gastanaga, V. M. et. al. 1998. "Host Country Reforms and FDI Inflows: How Much Difference do they make?" World Economy Vol.26, No.7 (July): 1299-1314.
- 21-Gavin, J. 2000. "The Walls Come Down," MEED, 19 May.
- 22-Ge, W. 1999. "Special Economic Zones and the Opening of the Chinese Economy: Some Lessons for Economic Liberalization," World Development, Vol.27, No.7: 1267-85.
- 23-Goldstein, M. 1995. "Coping with Too Much of a Good Thing: Policy Responses for Large Capital Inflows in Developing Countries," Policy Research Working Paper 1507. Washington, D.C.: World Bank.

- 24-Graham, E. 1995. "Foreign Direct Investment in the World Economy "IMF Working Paper WP/95/59 Washington, D. C.: International Monetary Fund.
- 25-Hussien, K. and A. P. Thirlwall. 1999. "Explaining Differences in the Domestic Savings Ratio Across Countries: A Panel Data Approach," Journal of Development Studies Vol.36, No.1 (October): 31-52.
- 26-Haddad, M. and A. Harrison. 1993. "Are there Positive Spillovers from Direct Foreign Investment? Evidence from Panel Data for Morocco," Journal of Development Economics, Vol.42: 51-74.
- 27-International Monetary Fund. 1999. World Economic Outlook Washington, D.C.: international Monetary Fund.
- 28-Jbili, A. et. al. 1997. "Financial Sector Reforms in Algeria, Morocco, and Tunisia: A Preliminary Assessment," IMF Working Paper WP/97/81. Washington. D.C.: International Monetary Fund.
- 29-Karam, P.2000. "Human Development in Arab Countries: Measurement and Current Situation," Abu Dhabi: Arab Monetary Fund. Processed.
- 30-Liu, et.al. 1997. "Country Characteristics and Foreign Direct Investment in China: A Panel Data Analysis," Weltwirtschaftliches Archiv, Vol. 133, No. 2: 313-29.
- 31-Lopez-Mejia, A. 1999. "Large Capital Flows A Survey of the Causes, Consequences, and Policy Responses," IMF Working Paper WP/99/17 Washington, D.C.: International Monetary fund.
- 32-Lucas, L. 1993. "On the Determinants of Direct foreign Investment: Evidence from East and Southeast Asia," World Development, Vol.21, No.3:391-406.
- 33-Onyeiwu, S. 2000. "Foreign Direct Investment, Capital Outflows, and Economic Development in the Arab World," Journal of Development and Economic Policies, Vol.2, No.2 (June): 27-57.
- 34-Riedel, J. 1995. "Intra-Asian. Trade and Foreign Direct Investment," Asian Development Review, Vol.20:111-46.
- 35-Sadik, A. ed. 1999. Competitiveness of Arab Economies in Global Markets. Abu Dhabi: Arab Monetary Fund.

- 36-Schneider, F. and Frey, B. 1985. "Economic and Political Determinants of Foreign Direct Investment," World Development, Vol.13, No.2:161-75.
- 37-Singh, A. 1998. "Savings, Investment, and the Corporation in the East-Asian Miracle," Journal of Development Studies, Vol.34, No.6 (August): 112-37.
- 38-Sjoholm, F. 1999. "Technology Gap, Competition, and Spillovers from Direct Foreign Investment: Evidence from Establishment Data." Journal of Development Studies, Vol.36, No. 1 (October): 53-73.
- 39-Stiglitz, J., and M. Uy. 1996. "Financial Markets, Public Policy, and the East-Asian Miracle," The World Bank Research Observer, Vol.11, No.2 (August): 249-76.
- 40-Tanzi, V. 1998. "Corruption Around the World," IMF Staff Papers, Vol.45 (December): 559-94.
- 41-UNCTAD. 1999. World Investment Report. New York: United Nations.
- 42-UNCTAD. 1998. World Investment Report. New York: United Nations.
- 43-UNCTAD. 1997. Handbook of International Trade and Development Statistics. New York: United Nations.
- 44-Wei, S. J. 2000. "How Taxing is Corruption on International Investors." The Review of Economics and Statistics, Vol. LXXXII, No. 1:1 II.
- 45-Wheeler, D. and A. Mody. 1992. "International Investment Location Decisions," Journal of International Economics, Vol.33, No. 1/2: 57-76.
- 46-World Bank. 2000a. Global Development Finance. Washington, D.C.: World Bank.
- 47-World Bank. 2000b. World Development Indicators. Washington, D.C.: World Bank.
- 48- World Bank. 1999. "Why Do Savings Rates Vary Across Countries?" Bulletin, Vol.10, No.2 (Jan-March): 1-4.