WWW.ECONSTOR.EU



Der Open-Access-Publikationsserver der ZBW – Leibniz-Informationszentrum Wirtschaft The Open Access Publication Server of the ZBW – Leibniz Information Centre for Economics

Madhur, Srinivasa

Working Paper

Costs and Benefits of a Common Currency for ASEAN

ERD Working Paper Series, No. 12

Provided in Cooperation with:

Asian Development Bank (ADB), Manila

Suggested Citation: Madhur, Srinivasa (2002): Costs and Benefits of a Common Currency for ASEAN, ERD Working Paper Series, No. 12, http://hdl.handle.net/11540/1930

This Version is available at: http://hdl.handle.net/10419/109234

Standard-Nutzungsbedingungen:

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.





ERD WORKING PAPER SERIES NO. 12 ECONOMICS AND RESEARCH DEPARTMENT

Costs and Benefits of a Common Currency for ASEAN

Srinivasa Madhur

May 2002

Asian Development Bank

ERD Working Paper No. 12

Costs and Benefits of a Common Currency for ASEAN

Srinivasa Madhur

May 2002

Srinivasa Madhur is a Principal Economist with the Regional Economic Monitoring Unit of the Asian Development Bank. The views expressed here are those of the author and not necessarily those of the Asian Development Bank. Earlier versions of this paper were presented in the ASEAN Task Force on ASEAN Currency and Exchange Rate Mechanism meeting at Kuala Lumpur, 6-7 August 2001, and in the International Conference on Monetary Outlook on East Asia in an Integrating World Economy held at Chulalonghorn University, Bangkok, 5-6 September 2001.

Asian Development Bank P.O. Box 789 0980 Manila Philippines

©2002 by Asian Development Bank May 2002 ISSN 1655-5252

The views expressed in this paper are those of the author(s) and do not necessarily reflect the views or policies of the Asian Development Bank.

Foreword

The ERD Working Paper Series is a forum for ongoing and recently completed research and policy studies undertaken in the Asian Development Bank or on its behalf. The Series is a quick-disseminating, informal publication meant to stimulate discussion and elicit feedback. Papers published under this Series could subsequently be revised for publication as articles in professional journals or chapters in books.

Contents

	Abstract	vii
I.	Introduction	1
II.	Perspectives on Optimum Currency Area	2
III.	The Suitability of ASEAN for a Common Currency	4
IV.	Constraints on the Adoption of a Common Currency	5
V.	Conclusion	7
	References	ç

Abstract

Since the 1997 Asian financial crisis, a popular view among academic economists and policymakers is that developing countries with open capital accounts have only two options in their exchange rate regimes: either float the exchange rate freely or fix it hard. Within a fixed exchange rate regime, two variants can be conceived: (i) a currency board arrangement or its equivalent, the domestic usage of the currency of another country; and (ii) adoption of a new common currency by a group of countries, or the formation of a monetary union. This paper assesses the costs and benefits of the second variant for the Association of Southeast Asian Nations (ASEAN). The paper concludes that although the constraints on the adoption of a common currency by ASEAN are formidable, the long-run goal of a common currency for the region may be worth considering seriously, especially because, judged by the criterion of optimum currency area, the region is as suitable for the adoption of a common currency as Europe was prior to the Maastricht Treaty.

I. INTRODUCTION

he 1997 Asian financial crisis has brought into sharp focus questions about appropriate exchange rate regimes for the economies in the region. In the aftermath of the crisis, with the notable exception of Malaysia, many countries in the region have now shifted toward greater flexibility in their exchange rates, although, for various reasons including the "fear of floating", official interventions in the foreign exchange market to stabilize rates are not uncommon. While these countries are experimenting with changes in the exchange rate regimes, a lively debate is continuing on the choice of appropriate exchange rate regimes for developing countries.

Since the Asian crisis, a popular view among academic economists and policymakers is that developing countries with open capital accounts have a bipolar solution to the exchange rate dilemma they face: a free float or a hard peg. This paper assesses the costs and benefits of a hard peg, specifically the use of a common currency or formation of a monetary union, for the Association of Southeast Asian Nations (ASEAN).

Given that the adoption of a common currency, or the formation of a currency union, was the last step in a sequence of policy initiatives toward regional economic integration in Europe that spanned more than four decades, the ASEAN may perhaps be a long way away from adopting a common currency. Yet, a debate on the adoption of a common currency by these countries is slowly emerging especially in the aftermath of the Asian crisis and after the single currency for Europe, the Euro, became a reality beginning 1999.

This paper aims to integrate and synthesize key conclusions in the literature and raise certain issues for further debate and research, rather than break new grounds through fresh research. The assessment is largely organized around some of the well-known results, both theoretical and empirical, of works on optimum currency area (OCA).

The paper is organized as follows. Section II presents the theoretical and empirical perspectives from the OCA literature. Section III examines the suitability of ASEAN for adoption of a common currency and Section IV assesses the key constraints on such adoption. Section V concludes by placing the issue in a broader global perspective.

II. PERSPECTIVES ON OPTIMUM CURRENCY AREA

According to the OCA literature, the key economic cost from formation of a currency union by a group of countries is the loss of national autonomy in monetary policy. Under a currency union, there is no scope for independent monetary policies by the member countries of the union. However, the cost associated with the loss of monetary independence depends upon how well the individual countries were conducting monetary policy prior to joining the currency union.

Many developing countries with open capital accounts have several constraints in the effective conduct of an independent monetary policy. This is especially so in developing countries with thin capital markets and weak central banking institutions. In general, the record of developing countries in conducting independent national monetary policies to minimize cyclical fluctuations in economic activity has been somewhat patchy. This suggests that the economic loss from giving up an independent monetary policy may not be very large for such countries. On the contrary, a currency union may, in fact, elicit commitment to greater macroeconomic stability from countries that otherwise have a mixed track record in implementing monetary policy prior to joining the currency union (Barro 2001). It is possible that this benefit will compensate for the loss of monetary policy autonomy.

The major benefit of a common currency that has been emphasized is that it facilitates trade (in both goods and services) and investment among the countries of the union (and hence increases income growth within the region) by reducing transaction costs in cross-border business, and removing volatility in exchange rates across the union. A currency is like language (Barro 2001). As a common language facilitates effective communication among people, a common currency could promote trade and investment among countries. In an environment of different currencies, transaction costs, including the costs of obtaining information about prices, would be higher. This would be a disincentive to trade, commerce, and investment.

Moreover, under floating exchange rate regimes—the alternative to a fixed exchange rate regime—exchange rates tend to be more volatile than is warranted by the economic fundamentals of an economy (Rose 1994, Williamson 1999, Bergsten and Henning 1996, Collignon 1999). This is especially true of small developing economies with thin capital markets. Developing countries with large unhedged foreign currency liabilities (original sin), therefore, often "fear to float." Monetary policies in such countries tend to be pro-cyclical rather than counter-cyclical. Belying the expectations of advocates of floating exchange rate regimes, flexible exchange rates have often become a source of shocks rather than shock absorbers. "Market errors" and the consequent misalignments in exchange rates under floating exchange rate regimes have been substantial (Breur 1994). Disproportionate volatility in exchange rates increases uncertainty, discourages trade, diminishes investment, and reduces overall economic growth (Kenen and Rodrik 1986, Huizinga 1994, Corbo and Cox 1995). It is possible to mitigate some of these adverse effects of floating exchange rates by hedging against exchange rate fluctuations. However, hedging involves nonnegligible transaction costs (Adler 1996, Friberg 1996, Rajan 2000). Development of perfect hedging instruments may even be difficult in practice. This may explain why in a 1992 survey of nonfi-

nancial Fortune companies, while 85 percent of the respondents hedged, only 22 percent hedged fully (Rajan 2000).

A common currency could mitigate some of these adverse effects of a floating exchange rate system. From a purely economic point of view, a set of countries should opt for a common currency if the cost of losing national autonomy in monetary policy is mitigated by the benefits of a currency union. While it is difficult to quantify these costs and benefits, the OCA literature offers some guidelines to compare them. The benefits of a currency union increase and/or the costs decrease with (i) greater flexibility in wages and prices among the countries of the union, (ii) greater mobility of factors of production (labor and capital) across countries, (iii) more symmetric shocks across countries, (iv) more openness among the economies within the union, and (iv) larger share of trade among the countries of the region.

A composite index of some of these determinants of the relative costs and benefits of a currency union, known as the OCA index, has been used to assess the suitability of a set of countries for adoption of a common currency. These OCA indicators should, however, be used with caution because they are not necessarily independent of the prevailing exchange rate regime (Eichengreen 1996, Frankel and Rose 1997, Rose 2000, Glick and Rose 2001). The OCA indicators, in other words, could be endogenous to the exchange rate regime. Endogeneity of the OCA indicators can arise due to a variety of reasons. Two of these deserve special mention.

First, to the extent that a common currency promotes greater trade among countries, openness and the volume of intra-union trade will be greater under a common currency than under a regime of floating exchange rates. This will make the degree of openness and the volume of intra-union trade endogenous to the exchange rate regime. Early estimates of the effect of exchange rate regimes on trade were generally small and modest at best (Kennen and Rodrik 1986, Huizinga 1994, Corbo and Cox 1995). However, more recent studies find substantial positive effect of a common currency regime on trade (Rose 2000, Glick and Rose 2001, and Rose and Wincoop 2001).

Second, the degree of flexibility of wages in the labor markets and the prices in the product markets are likely to be larger under a credible currency union than under a floating exchange rate regime. This is a broader application of the well-known Lucas principle that states that the very structure of an economy may be affected by changes in the policy regime. This is not to suggest that wages and prices will become perfectly flexible once exchange rates across countries are locked in, but that wage and price setters will adapt in order to avoid increases in unemployment to levels that would provoke resistance to continued participation in the currency union (Eichengreen 1996). Historical evidence tends to support such a market response. For example, the response of labor and product market prices to shocks was found to be faster under the gold standard than under monetary regimes characterized by greater exchange rate variability (Bayoumi and Eichengreen 1996).

III. THE SUITABILITY OF ASEAN FOR A COMMON CURRENCY

Is ASEAN suitable for adopting a common currency? While it is difficult to quantify the costs and benefits, applying the guidelines of the OCA literature shows there are several characteristics of the ASEAN that suggest that the benefits of a common currency may be significant relative to the costs.

In terms of the cost of giving up independent monetary policy, in practice, given the somewhat mixed track record of many of these countries in conducting monetary policy, the costs of surrendering monetary autonomy are unlikely to be large: At least some of them may perhaps be giving up something that they do not have! In fact, as a result of forming a currency union, there is a possibility that some of the countries that now have a patchy track record of inflation control and exchange rate management could benefit substantially from a monetary policy conducted by a more credible regional central bank. Such a convergence to best (or better) practices in monetary policy in the region will be a benefit, not a cost.

In terms of factor mobility, ASEAN compares favorably with the European Union (EU) at the time of the Maastricht Treaty. ASEAN has relatively high labor mobility as well as capital mobility (Goto and Hamada 1994; Eichengreen and Bayoumi 1999; Moon, Rhee, and Yoon 2000). For example, workers from Indonesia, Malaysia, Philippines, and Thailand account for 10 percent of the employment in Singapore. Emigration has been as much as 2 percent of the labor force of the sending countries.

Compared to the EU, ASEAN also ranks quite high in terms of wage and price flexibility. In fact, traditionally they are known for their flexibility and speed of adjustment to shocks. According to Bayoumi and Eichengreen (1994), almost all of the change in output and prices in response to a shock in East Asia takes place in about two years. By comparison, in Europe, only about half the adjustment occurs in the first two years after a shock. These results are consistent with the general impression that labor markets are more flexible in ASEAN than in Western Europe.

Many ASEAN countries have trade-to-GDP ratios as well as trade-intensity ratios (which normalize bilateral trade by the relative share of the countries in total world trade to eliminate size effects) that are higher than in Western Europe (Goto and Hamada 1994, Kawai and Takagi 2000). At close to 25 percent, the share of intraregional trade in ASEAN total trade, although lower than in the EU (40 percent), is significant and rising (Bayoumi and Mauro 1999). It is much higher than in some of the other currency unions such as the Eastern Carribean Currency Union (about 10 percent), the Western Africa Economic and Monetary Union (about 10 percent), and the Central African Economic and Monetary Community (about 3 percent).

Although there are intercountry differences, the symmetry in shocks among the countries in the region is comparable to the EU (Eichengreen and Bayoumi 1999). The regionwide economic slowdown in 2001 in response to the global economic downturn is another evidence of the high degree of shock symmetry among these countries. The high degree of shock symmetry reflects both the high degree of openness (export orientation, capital flows etc.) and the similarities in the production structures among these economies.

Overall, composite OCA indices for the region, which take into account intraregional trade, wage-price flexibility, labor mobility, and shock symmetry, are similar to those for the EU (Eichengreen and Bayoumi 1999). Using a variety of indicators drawn from the OCA literature, Eichengreen and Bayoumi conclude that from a purely economic perspective, East Asia/ASEAN is as suitable for an OCA as Europe was prior to the Maastricht Treaty.

IV. CONSTRAINTS ON THE ADOPTION OF A COMMON CURRENCY

None of the empirical evidences presented above should make one disregard some of the key constraints on locking in the exchange rates and adopting a common currency over the long run. Sustaining a common currency may be even more difficult than adopting it. Four constraints that have generally been mentioned in discussions are worth special attention: (i) diversity in the level of economic development across countries, (ii) weaknesses in the financial sectors of many countries, (iii) inadequacy of region-level resource pooling mechanisms and institutions required for forming and managing a currency union, and (iv) lack of political preconditions for monetary cooperation and a common currency.

The diversity in the level of economic development among the ASEAN countries is quite large. Singapore, the richest country in the group, has a per capita income close to 300 times the per capita income of Myanmar, the poorest country in the group. Even among the ASEAN-5 (Indonesia, Malaysia, Philippines, Singapore, and Thailand), the per capita income of Singapore is about 40 times the per capita income of Indonesia. This degree of diversity is higher than among the countries of the EU. It is sometimes argued that such a high degree of income differentials could make it difficult to sustain a monetary union among these countries. However, it is important to note that what is important for the adoption of a common currency among countries is that relative prices and outputs across them should have high co-movements following an economic shock, not so much that the levels of income should be more equal across them. For even if the countries in a monetary union have perfect equality of per capita incomes, if the co-movement of relative prices and outputs across countries is low, conducting a common monetary policy for the union as a whole is difficult. On the other hand, even if per capita incomes across countries in a monetary union are vastly different, but their co-movement following an economic shock is very high, conducting a common monetary policy is much less problematic. Income differentials across countries could pose a constraint to the conduct of a common monetary policy only to the extent that they reflect the dissimilarities in the production structures across countries (and hence movements in relative prices and outputs across them). However, it is important to note that some of the populous countries in the world, e.g., People's Republic of China (PRC), India, Indonesia, or United States, also exhibit large intraregional income differentials within them. Yet, each of these countries uses a single currency.

If countries with diverse subregions can adopt a common currency, why not a region with diverse countries? The answer perhaps lies in the fact that (i) labor and capital are freely mobile

within a country (although formal labor mobility across subregions in the PRC are constrained by official restrictions), but are not necessarily so across countries; and (ii) the budget and fiscal policy can, within limits, be used to bring about inter-regional resource transfers within a country, another adjustment mechanism that is often difficult to operate across countries. To manage a currency union for a group of countries with a large difference in level of development, it is, therefore, important to allow a freer flow of capital and labor across borders. This is an area that would need concerted efforts by the ASEAN governments. Member countries will have to evolve policies and mechanisms that would allow greater mobility of both capital and labor across national borders, in addition to the freer movement of goods allowed under the free trade arrangement within the region.

As for fiscal policy, it is difficult to have a large centralized budget at the union level to make resource transfers across countries. The greater mobility of factors of production should reduce the need for large fiscal transfers over the medium to long term. However, in the short run labor mobility cannot be relied upon to take care of asymmetric shocks across countries in a currency union. Country-specific fiscal policies can be used to respond to asymmetric shocks across countries within the union. However, the scope for country-specific discretionary fiscal policies within a currency union would be limited if there is a ceiling on fiscal imbalances, as is the case in the European Union under the Stability and Growth Pact. Since historically fiscal irresponsibility has proven to be the waterloo of monetary cooperation many times, it is perhaps desirable to restrict fiscal autonomy within a currency union by using mechanisms similar to the European Union's Stability and Growth Pact, but with greater flexibility at the national level. One such option could be to allow automatic fiscal stabilizers at the national levels to move the fiscal balance in a counter-cyclical fashion (worsening during economic downturns and improving during economic upturns) but within certain broad limits.

One of the lessons from some of the emerging market financial crises is that when countries with weak banking and financial sectors and heavy dependence on foreign capital peg their exchange rates, banking problems could turn into an exchange rate crisis (Eichengreen and Bayoumi 1999). A weak banking system could, therefore, undermine an exchange rate regime such as a common currency arrangement. Historically, banking problems have not been as pervasive among the ASEAN countries as in other emerging market economies. Yet, the 1997 financial crisis in Asia has exposed the fragility of the banking systems and the financial sectors of many countries in the region. Despite the progress in financial sector restructuring in the aftermath of the crisis, the remaining agenda of banking reforms is quite large. Significant further reforms and restructuring of the financial sectors and the banking systems will, therefore, be required among the ASEAN countries before they could adopt a common currency. There is, however, a positive side to this challenge. A currency union among these countries, accompanied by a regional integration of financial services, could enable countries with stronger banking systems to specialize in the provision of these services at the regional level. That would lead to greater harmonization of banking and financial sector practices across countries as well as raise the overall banking and financial sector standards across the region.

Inadequate mechanisms for regional reserve pooling as well as the absence of regional institutions could be another set of constraints on monetary cooperation and common currency among the East Asian countries. The reserve sharing arrangements under the Chiang Mai Initiative constitute a modest beginning in addressing this constraint. Yet, a common currency for the region would require much greater reserve pooling and sharing among the countries than is currently possible under the Chiang Mai Initiative. Europe established a whole gamut of institutions such as the European Council, European Commission, and European Central Bank to manage regional resource sharing and to coordinate the monetary union. It took decades of experimentation in Europe to establish these institutions. Given the almost total absence of institutions to support regional monetary cooperation in East Asia, developing the regional institutions to manage a common currency is likely to be a major challenge. Once again, there is a positive side to this challenge: the region can benefit from decades of European experience. It can "leapfrog" in developing the regional reserve sharing mechanisms and the institutions, if there is enough political support for a regional currency union. That brings one to another key constraint: lack of political preconditions for a currency union in the ASEAN.

It is argued that while East Asia or the ASEAN may satisfy the economic requirements for an OCA as much as the EU does, it has not developed the political preconditions necessary for a common currency (Eichengren and Bayoumi 1999; Bayoumi, Eichengreen, and Mauro 2000). In Europe, the debate over monetary integration has gone hand in hand with discussions of political integration and creation of a supranational entity empowered to override sovereign national governments. At each stage of this political integration, national governments delegated a growing range of powers to the collectivity. Going by the European experience, developing political support and the institutions required for a currency union in the region, whether it is among ASEAN or among a broader group of countries, is likely to be a formidable challenge. One should not understate the difficulties of addressing this challenge. Yet, if the economic advantages of a regional monetary union are large, it is possible that countries may make political compromises so as to reap the economic benefits (Park 2001). Economic interests may persuade countries to set aside political differences and forge strategically beneficial political alliances. In other words, political support may not be exogenous to the economic outcomes, just as economic outcomes may not be independent of political factors. Economic and political integration in the region may, therefore, be a joint although gradual process spanning perhaps decades.

V. CONCLUSION

The issue of the costs and benefits of a common currency for the ASEAN needs to be placed in a somewhat global perspective. As Barro (2001) observes, three sets of factors are likely to encourage the initiation of currency unions across the globe in the future: (i) the increasing number of countries in the world; (ii) globalization; and (iii) the diminishing role of independent national monetary policies, especially for small countries.

At the end of World War II, there were 76 independent countries in the world. Today there are nearly 200. For many of the growing number of smaller countries, the costs of maintaining separate currencies and floating exchange rates are likely to be very high. For them, therefore, the net benefits from joining a monetary union (or simply using another country's currency) are likely to be significant (Barro 2001). This could encourage the formation of an increasing number of currency unions over time.

The increased pace of globalization (including the spread of trade in goods and services and financial transactions and the heightened diffusion of technology) is also likely to encourage the formation of currency unions. In an increasingly globalizing world, there is likely to be greater synchronization of business cycles across countries, and hence the net benefits of having fewer currencies to conduct cross-border business are likely to be larger. Moreover, as the world gets more integrated, the volume of transactions involving citizens of different countries will increase. As international transactions become a larger share of total global transactions, the attractiveness of common currencies relative to a multitude of sovereign currencies is likely to increase.

The benefit that economists and central bankers attribute to national monetary policies is also diminishing. There is growing skepticism about the usefulness of independent monetary policies, especially to smaller developing economies, for counter-cyclical stabilization purposes.

All these factors have the potential to increase political support for monetary and economic integration across countries. Overall, therefore, events may become more favorable to the formation of currency unions. Should the ASEAN be part of this likely global trend? It is time to ponder this question, even if one does not foresee a conclusive answer in the immediate future. For in case the answer turns out to be "yes", the challenges of forming an ASEAN currency union (or other regional groupings in Asia), including managing the transition phases, are likely to be formidable. The preparatory groundwork itself would involve considerable effort.

Going by international experience, the time required to complete the process is unlikely to be short either. Europe spent several decades in experimenting with regional monetary cooperation before adopting a monetary union. The task may be even more challenging for ASEAN. But it is important not to underestimate the Southeast Asian capacity for "time compression." During the last few decades, time and again, these countries have turned in economic achievements at an unprecedented speed. That record of achievement earned some of them the coveted title of miracle economies.

Despite the Asian crisis, the achievement of the ASEAN Free Trade Area (AFTA) in early 2002, much in advance of the original deadline of 2008, is yet another pointer to their capacity for "time compression." With the launching of the AFTA, ASEAN countries have crossed an important milestone: moving closer to what some would refer to as the "good neighbors' stage" of regionalism, in which participating countries abolish trade barriers and create a level playing field for cross-border movement of goods, services, and capital, but allow the pursuit of separate national economic agendas in other areas, especially in the areas of fiscal and monetary policies.

It is certainly a very challenging task for the ASEAN to move from the "good neighbors' stage" to the European "happy family stage" of regionalism, in which participating countries also

share a common currency; free flow of people across borders; and common institutions, both economic and political, which are required to manage the common currency. But, as is well known, regional monetary integration, by its very nature, is a long process involving a series of small, incremental, steps over time. Viewed from this perspective, the launching of the AFTA and the regional resource sharing arrangements under the Chiang Mai Initiative may perhaps possess the potential to gradually lead to greater regional monetary cooperation. Moreover, the ASEAN countries have the European experience behind them, and that could be an added advantage.

REFERENCES

- Adler, M., 1996. "Exchange Rate Planning for International Trading Firm." In Y. Amihud and R. Levich, eds., *Exchange Rates and Corporate Performance*. New York: Irwin Professional Publishing.
- Barro, R., 2001. "Currency Unions." Unpublished monograph. Harvard University.
- Bayoumi, T., and B. Eichengreen, 1994. "One Money or Many? Analyzing the Prospects for Monetary Unification in Various Parts of the World." *Princeton Studies in International Finance* 76:20-30.
- ———, 1996. "The Stability of the Gold Standard and the Evolution of the International Monetary System." in T. Bayoumi, B. Eichengreen, and M. Taylor, eds., *Economic Perspectives in the Gold Standard*. Cambridge: Cambridge University Press.
- Bayoumi, T., and P. Mauro, 1999. The Suitability of ASEAN for a Regional Currency Arrangement. Working Paper 99/162, International Monetary Fund, Washington D.C.
- Bayoumi, T., B. Eichengreen, and P. Mauro, 2000. "On Regional Monetary Arrangements for ASEAN." *Journal of the Japanese and International Economies* 4(June)121-48.
- Benassy-Quere, A., 1999. "Optimal Pegs for East Asian Currencies." *Journal of the Japanese and International Economies* 13(March):44-60.
- Bergsten, C. F., and C. R. Henning, 1996. "Global Economic Leadership and the Group of Seven." Institute for International Economics, Washington D.C.
- Breur, J. B., 1994. "An Assessment of the Evidence on Purchasing Power Parity." In J. Williamson, ed., *Estimating Equilibrium Exchange Rates*. Institute for International Economics, Washington D.C.
- Collignon, S., 1999. "Bloc Floating and Exchange Rate Volatility: The Causes and Consequences of Currency Blocs." In S. Collignon, J. Pisani-Ferry, and Y. C. Park, eds., *Exchange Rate Policies in Emerging Asian Countries*. London and New York: Routledge.
- Corbo, V., and V. Cox, 1995. "Exchange Rate Volatility, Investment and Growth: Some New Evidence." In W. Gruben, D. Gould, and C. Zarazaga, eds., *Exchange Rates, Capital Flows, and Monetary Policy in a Changing World Economy*. Boston: Kluwer Academic Press.
- DeGrauwe, P., 2000. Economics of Monetary Union. Oxford: Oxford University Press.
- Eichengreen, B., 1996. "A More Perfect Union? The Logic of Economic Integration." Essays in

- *International Finance*. International Finance Section, Department of Economics, Princeton University.
- Eichengreen B., and T. Bayoumi, 1999. "Is Asia an Optimum Currency Area? Can It Become One?" In S. Collignon, J. Pisani-Ferry, and Y. C. Park, eds., *Exchange Rate Policies in Emerging Asian Countries*. London: Routledge.
- Frankel, J., and A. Rose, 1997. "The Endogeneity of the Optimum Currency Area Criteria." In M. Blejer, J. Frenkel, L. Leiderman, and A. Razin, eds., *Optimum Currency Areas: New Analytical and Policy Developments*. International Monetary Fund, Washington, D C.
- Friberg, R., 1996. Exchange Rate Uncertainty and the Microeconomic Benefits of EMU. Working Paper No. 127, The Economic Research Institute, Stockholm School of Economics.
- Glick, R., and A. Rose, 2001. "Does a Currency Union Affect Trade? The Time Series Evidence." Unpublished monograph.
- Goto, J., and K. Hamada, 1994. "Economic Preconditions for Asian Regional Integration." In T. Ito and A. Krueger, eds., *Macroeconomic Linkage: Savings, Exchange Rates and Capital Flows*. Chicago: University of Chicago Press.
- Huizinga, J., 1994. "Exchange Rate Volatility, Uncertainty and Investment: An Empirial Investigation." In C. Leiderman and A. Razin, eds., *Capital Mobility: The Impact on Consumption, Investment and Growth*. Cambridge: Cambridge University Press.
- Kawai, M., and S. Takagi, 2000. Proposed Strategy for a Regional Exchange Rate Arrangement in Post-Crisis Asia: Analysis, Reviews and Proposal. Policy Research Working Paper No. 2503, World Bank, Washington, D.C.
- Kenen, P., and D. Rodrick, 1986. "Measuring and Analyzing the Effects of Short-Term Volatility in Real Exchange Rates." *Review of Economic Statistics* 68(2):311-315.
- Kwan, C. H., 1998. "The Theory of Optimum Currency Areas and the Possibility of Forming a Yen Bloc in Asia." Nomura Research Institute. Mimeo.
- Moon, W. S., and Y. Rhee, 1999. "Asian Monetary Cooperation: Lessons from the European Monetary Integration." *Journal of International and Area Studies* 6(1,May).
- Moon, W. S., Y. Rhee, and D. R. Yoon, 2000. "Asian Monetary Cooperation: A Search for Regional Monetary Stability in the Post euro and the Post Asian Crisis Era." *Economic Papers* 3(1):159-93.
- Park, Y. C., 2001. "Beyond the Chiang Mai Initiative Rationale and Need for a Regional Monetary Arrangement in East Asia." Unpublished monograph. Department of Economics, Korea University.
- Plummer, M., 2001. "Monetary Union and Asian," International Conference on Trade and Monetary System in Asia-Pacific." Kobe, Japan.
- Rajan, R., 2000. Currency Basket Regimes for Southeast Asia: The Worst System with Exception of All Others. Policy DP No. 0028, Centre for International Economic Studies, Adelaide, Australia.
- Rose, A., 1994. "Are Exchange Rates Macroeconomic Phenomena." Federal Reserve Bank of San Francisco Economic Review 1:19-30.

- ———, 2000. "One Money, One Market: Estimating the Effect of Common Currencies on Trade." *Economic Policy* 30:7-46.
- Rose, A., and E. van Wincoop, 2001. "National Money as a Barrier to International Trade: The Real Case for Currency Union." *American Economic Review* May:386-90.
- Williamson, J., 1999. "The Case for a Common Basket Peg for East Asian Currencies." In S. Collignon, J. Pisani-Ferry, and Y. C. Park, eds., *Exchange Rate Policies in Emerging Asian Countries*. London and New York: Routledge.

PUBLICATIONS FROM THE ECONOMICS AND RESEARCH DEPARTMENT

ERD TECHNICAL NOTE SERIES (TNS)

(Published in-house; Available through ADB Office of External Relations; Free of Charge)

No. 1 Contingency Calculations for Environmental Impacts with Unknown Monetary Values $-David\ Dole \\ February\ 2002$

ERD WORKING PAPER SERIES (WPS)

(Published in-house; Available through ADB Office of External Relations; Free of Charge)

No. 1	Capitalizing on Globalization		—Arsenio M. Balisacan and Ernesto M. Pernia
	—Barry Eichengreen, January 2002		March 2002
No. 2	Policy-based Lending and Poverty Reduction:	No. 8	Poverty, Growth, and Inequality in Thailand
	An Overview of Processes, Assessment		—Anil B. Deolalikar
	and Options		April 2002
	—Richard Bolt and Manabu Fujimura	No. 9	Microfinance in Northeast Thailand: Who Benefits
	January 2002		and How Much?
No. 3	The Automotive Supply Chain: Global Trends		—Brett E. Coleman
	and Asian Perspectives		April 2002
	—Francisco Veloso and Rajiv Kumar	No. 10	PovertyReduction and the Role of Institutions in
	January 2002	110. 10	Developing Asia
No. 4	International Competitiveness of Asian Firms:		—Anil B. Deolalikar, Alex B. Brilliantes, Jr.,
110. 1	An Analytical Framework		Raghav Gaiha, Ernesto M. Pernia, Mary Racelis
	—Rajiv Kumar and Doren Chadee		with the assistance of Marita Concepcion Castro-
	February 2002		•
No. 5	The International Competitiveness of Asian		Guevara, Liza L. Lim, Pilipinas F. Quising
10. 5	-	37 11	May 2002
	Economies in the Apparel Commodity Chain	No. 11	The European Social Model: Lessons for
	—Gary Gereffi		Developing Countries
	February 2002		—Assar Lindbeck
No. 6	Monetary and Financial Cooperation in East		May 2002
	Asia—The Chiang Mai Initiative and Beyond	No. 12	Costs and Benefits of a Common Currency for
	—Pradumna B. Rana		ASEAN
	February 2002		—Srinivasa Madhur
No. 7	Probing Beneath Cross-national Averages: Poverty,		May 2002
	Inequality, and Growth in the Philippines		

MONOGRAPH SERIES

(Published in-house; Available through ADB Office of External Relations; Free of charge)

EDRC REPORT SERIES (ER)

No. 1	ASEAN and the Asian Development Bank	No. 8	Shadow Exchange Rates and Standard
	—Seiji Naya, April 1982		Conversion Factors in Project Evaluation
No. 2	Development Issues for the Developing East		—Peter Warr, September 1982
	and Southeast Asian Countries	No. 9	Small and Medium-Scale Manufacturing
	and International Cooperation		Establishments in ASEAN Countries:
	—Seiji Naya and Graham Abbott, April 1982		Perspectives and Policy Issues
No. 3	Aid, Savings, and Growth in the Asian Region		-Mathias Bruch and Ulrich Hiemenz,
	—J. Malcolm Dowling and Ulrich Hiemenz,		January 1983
	April 1982	No. 10	A Note on the Third Ministerial Meeting of GATT
No. 4	Development-oriented Foreign Investment		—Jungsoo Lee, January 1983
	and the Role of ADB	No. 11	Macroeconomic Forecasts for the Republic
	—Kiyoshi Kojima, April 1982		of China, Hong Kong, and Republic of Korea
No. 5	The Multilateral Development Banks		—J.M. Dowling, January 1983
	and the International Economy's Missing	No. 12	ASEAN: Economic Situation and Prospects
	Public Sector		—Seiji Naya, March 1983
	—John Lewis, June 1982	No. 13	The Future Prospects for the Developing
No. 6	Notes on External Debt of DMCs		Countries of Asia
	—Evelyn Go, July 1982		—Seiji Naya, March 1983
No. 7	Grant Element in Bank Loans	No. 14	Energy and Structural Change in the Asia-
	—Dal Hyun Kim, July 1982		Pacific Region, Summary of the Thirteenth

	Pacific Trade and Development Conference		Developing Member Countries of the Bank
	—Seiji Naya, March 1983		—Jungsoo Lee, Pradumna Rana, and Ifzal Ali,
No. 15	A Survey of Empirical Studies on Demand	N. 00	May 1986
	for Electricity with Special Emphasis on Price	No. 36	Smuggling and Domestic Economic Policies
	Elasticity of Demand		in Developing Countries
N. 10	-Wisarn Pupphavesa, June 1983	N. 97	—A.H.M.N. Chowdhury, October 1986
No. 16	Determinants of Paddy Production in Indonesia:	No. 37	Public Investment Criteria: Economic Internal
	1972-1981–A Simultaneous Equation Model		Rate of Return and Equalizing Discount Rate
	Approach —T.K. Jayaraman, June 1983	No. 20	—Ifzal Ali, November 1986 Paying of the Theory of Novelessian Political
No. 17		No. 38	Review of the Theory of Neoclassical Political Economy: An Application to Trade Policies
NO. 17	The Philippine Economy: Economic Forecasts for 1983 and 1984		-M.G. Quibria, December 1986
	—J.M. Dowling, E. Go, and C.N. Castillo,	No. 39	Factors Influencing the Choice of Location:
	June 1983	110. 55	Local and Foreign Firms in the Philippines
No. 18	Economic Forecast for Indonesia		—E.M. Pernia and A.N. Herrin, February 1987
110. 10	—J.M. Dowling, H.Y. Kim, Y.K. Wang,	No. 40	A Demographic Perspective on Developing
	and C.N. Castillo, June 1983	110. 10	Asia and Its Relevance to the Bank
No. 19	Relative External Debt Situation of Asian		—E.M. Pernia, May 1987
	Developing Countries: An Application	No. 41	Emerging Issues in Asia and Social Cost
	of Ranking Method		Benefit Analysis
	—Jungsoo Lee, June 1983		—I. Ali, September 1988
No. 20	New Evidence on Yields, Fertilizer Application,	No. 42	Shifting Revealed Comparative Advantage:
	and Prices in Asian Rice Production		Experiences of Asian and Pacific Developing
	-William James and Teresita Ramirez, July 1983		Countries
No. 21	Inflationary Effects of Exchange Rate		—P.B. Rana, November 1988
	Changes in Nine Asian LDCs	No. 43	Agricultural Price Policy in Asia:
	—Pradumna B. Rana and J. Malcolm Dowling,		Issues and Areas of Reforms
	Jr., December 1983		—I. Ali, November 1988
No. 22	Effects of External Shocks on the Balance	No. 44	Service Trade and Asian Developing Economies
	of Payments, Policy Responses, and Debt		-M.G. Quibria, October 1989
	Problems of Asian Developing Countries	No. 45	A Review of the Economic Analysis of Power
	—Seiji Naya, December 1983		Projects in Asia and Identification of Areas
No. 23	Changing Trade Patterns and Policy Issues:		of Improvement
	The Prospects for East and Southeast Asian	NT 40	—I. Ali, November 1989
	Developing Countries	No. 46	Growth Perspective and Challenges for Asia:
No. 24	—Seiji Naya and Ulrich Hiemenz, February 1984 Small-Scale Industries in Asian Economic		Areas for Policy Review and Research —I. Ali, November 1989
110. 24	Development: Problems and Prospects	No. 47	An Approach to Estimating the Poverty
	—Seiji Naya, February 1984	110. 41	Alleviation Impact of an Agricultural Project
No. 25	A Study on the External Debt Indicators		—I. Ali, January 1990
	Applying Logit Analysis	No. 48	Economic Growth Performance of Indonesia,
	—Jungsoo Lee and Clarita Barretto,		the Philippines, and Thailand:
	February 1984		The Human Resource Dimension
No. 26	Alternatives to Institutional Credit Programs		—E.M. Pernia, January 1990
	in the Agricultural Sector of Low-Income	No. 49	Foreign Exchange and Fiscal Impact of a Project:
	Countries		A Methodological Framework for Estimation
	—Jennifer Sour, March 1984		—I. Ali, February 1990
No. 27	Economic Scene in Asia and Its Special Features	No. 50	Public Investment Criteria: Financial
	—Kedar N. Kohli, November 1984		and Economic Internal Rates of Return
No. 28	The Effect of Terms of Trade Changes on the		—I. Ali, April 1990
	Balance of Payments and Real National	No. 51	Evaluation of Water Supply Projects:
	Income of Asian Developing Countries		An Economic Framework
	—Jungsoo Lee and Lutgarda Labios, January 1985	** **	—Arlene M. Tadle, June 1990
No. 29	Cause and Effect in the World Sugar Market:	No. 52	Interrelationship Between Shadow Prices, Project
	Some Empirical Findings 1951-1982		Investment, and Policy Reforms:
M - 90	—Yoshihiro Iwasaki, February 1985		An Analytical Framework
No. 30	Sources of Balance of Payments Problem	N. 70	—I. Ali, November 1990
	in the 1970s: The Asian Experience	No. 53	Issues in Assessing the Impact of Project and Sector Adjustment Lending
No. 31	—Pradumna Rana, February 1985 India's Manufactured Exports: An Analysis		· ·
NO. 51	of Supply Sectors	No. 54	—I. Ali, December 1990 Some Aspects of Urbanization
	—Ifzal Ali, February 1985	110. 54	and the Environment in Southeast Asia
No. 32	Meeting Basic Human Needs in Asian		Ernesto M. Pernia, January 1991
110. 02	Developing Countries	No. 55	Financial Sector and Economic
	—Jungsoo Lee and Emma Banaria, March 1985	110. 00	Development: A Survey
No. 33	The Impact of Foreign Capital Inflow		—Jungsoo Lee, September 1991
	on Investment and Economic Growth	No. 56	A Framework for Justifying Bank-Assisted
	in Developing Asia		Education Projects in Asia: A Review
	-Evelyn Go, May 1985		of the Socioeconomic Analysis
No. 34	The Climate for Energy Development		and Identification of Areas of Improvement
	in the Pacific and Asian Region:		—Etienne Van De Walle, February 1992
	Priorities and Perspectives	No. 57	Medium-term Growth-Stabilization
	—V.V. Desai, April 1986		Relationship in Asian Developing Countries
No. 35	Impact of Appreciation of the Yen on		and Some Policy Considerations

	—Yun-Hwan Kim, February 1993		—Bo Lin, August 1994
No. 58	Urbanization, Population Distribution,	No. 63	Incentives and Regulation for Pollution Abatement
	and Economic Development in Asia		with an Application to Waste Water Treatment
	-Ernesto M. Pernia, February 1993		—Sudipto Mundle, U. Shankar,
No. 59	The Need for Fiscal Consolidation in Nepal:		and Shekhar Mehta, October 1995
	The Results of a Simulation	No. 64	Saving Transitions in Southeast Asia
	-Filippo di Mauro and Ronald Antonio Butiong,		—Frank Harrigan, February 1996
	July 1993	No. 65	Total Factor Productivity Growth in East Asia:
No. 60	A Computable General Equilibrium Model		A Critical Survey
	of Nepal		—Jesus Felipe, September 1997
	—Timothy Buehrer and Filippo di Mauro,	No. 66	Foreign Direct Investment in Pakistan:
	October 1993		Policy Issues and Operational Implications
No. 61	The Role of Government in Export Expansion		—Ashfaque H. Khan and Yun-Hwan Kim,
	in the Republic of Korea: A Revisit		July 1999
	—Yun-Hwan Kim, February 1994	No. 67	Fiscal Policy, Income Distribution and Growth
No. 62	Rural Reforms, Structural Change,		—Sailesh K. Jha, November 1999
	and Agricultural Growth in		
	the People's Republic of China		

ECONOMIC	SIAFF	PAPERS	(ES)

No.	1	International Reserves: Factors Determining Needs and Adequacy —Evelyn Go, May 1981	No. 14	Small and Medium-Scale Manufacturing Establishments in ASEAN Countries: Perspectives and Policy Issues
No.	2	Domestic Savings in Selected Developing Asian Countries —Basil Moore, assisted by	No. 15	-Mathias Bruch and Ulrich Hiemenz, March 1983 Income Distribution and Economic Growth in Developing Asian Countries
No.	3	A.H.M. Nuruddin Chowdhury, September 1981 Changes in Consumption, Imports and Exports of Oil Since 1973: A Preliminary Survey of the Developing Member Countries of the Asian Development Bank	No. 16	 —J. Malcolm Dowling and David Soo, March 1983 Long-Run Debt-Servicing Capacity of Asian Developing Countries: An Application of Critical Interest Rate Approach —Jungsoo Lee, June 1983
		—Dal Hyun Kim and Graham Abbott, September 1981	No. 17	External Shocks, Energy Policy, and Macroeconomic Performance of Asian
No.	4	By-Passed Areas, Regional Inequalities, and Development Policies in Selected Southeast Asian Countries	No. 18	Developing Countries: A Policy Analysis —William James, July 1983 The Impact of the Current Exchange Rate
No.	5	-William James, October 1981 Asian Agriculture and Economic Development	110. 10	System on Trade and Inflation of Selected Developing Member Countries
No.	6	William James, March 1982 Inflation in Developing Member Countries:	No. 19	—Pradumna Rana, September 1983 Asian Agriculture in Transition: Key Policy Issues
		An Analysis of Recent Trends —A.H.M. Nuruddin Chowdhury and J. Malcolm Dowling, March 1982	No. 20	William James, September 1983 The Transition to an Industrial Economy in Monsoon Asia
No.	7	Industrial Growth and Employment in Developing Asian Countries: Issues and	No. 21	—Harry T. Oshima, October 1983 The Significance of Off-Farm Employment
No.	8	Perspectives for the Coming Decade —Ulrich Hiemenz, March 1982 Petrodollar Recycling 1973-1980.	No. 22	and Incomes in Post-War East Asian Growth —Harry T. Oshima, January 1984 Income Distribution and Poverty in Selected
110.	O	Part 1: Regional Adjustments and the World Economy	110. 22	Asian Countries —John Malcolm Dowling, Jr., November 1984
No.	9	—Burnham Campbell, April 1982 Developing Asia: The Importance of Domestic Policies	No. 23	ASEAN Economic Cooperation
		—Economics Office Staff under the direction of Seiji Naya, May 1982	No. 24	—Narongchai Akrasanee, November 1984 Economic Analysis of Power Projects —Nitin Desai, January 1985
No.	10	Financial Development and Household Savings: Issues in Domestic Resource	No. 25	Exports and Economic Growth in the Asian Region —Pradumna Rana, February 1985
No.	11	Mobilization in Asian Developing Countries —Wan-Soon Kim, July 1982 Industrial Development: Role of Specialized	No. 26 No. 27	Patterns of External Financing of DMCs —E. Go, May 1985 Industrial Technology Development
		Financial Institutions —Kedar N. Kohli, August 1982		the Republic of Korea —S.Y. Lo, July 1985
No.	12	Petrodollar Recycling 1973-1980. Part II: Debt Problems and an Evaluation of Suggested Remedies	No. 28	Risk Analysis and Project Selection: A Review of Practical Issues —J.K. Johnson, August 1985
No.	13	—Burnham Campbell, September 1982 Credit Rationing, Rural Savings, and Financial	No. 29	Rice in Indonesia: Price Policy and Comparative Advantage
		Policy in Developing Countries —William James, September 1982	No. 30	—I. Ali, January 1986 Effects of Foreign Capital Inflows

	on Developing Countries of Asia		—Hiroshi Kakazu, June 1990
	—Jungsoo Lee, Pradumna B. Rana,	No. 47	Designing Strategies and Policies
	and Yoshihiro Iwasaki, April 1986		for Managing Structural Change in Asia
No. 31	Economic Analysis of the Environmental		—Ifzal Ali, June 1990
110. 01	Impacts of Development Projects	No. 48	The Completion of the Single European Commu-
	—John A. Dixon et al., EAPI,	nity	The completion of the bingle Buropean commu-
	East-West Center, August 1986	iiity	Market in 1992: A Tentative Assessment of its
No. 32	Science and Technology for Development:		Impact on Asian Developing Countries
110. 52	Role of the Bank		J.P. Verbiest and Min Tang, June 1991
		N- 40	O.
NT 00	-Kedar N. Kohli and Ifzal Ali, November 1986	No. 49	Economic Analysis of Investment in Power
No. 33	Satellite Remote Sensing in the Asian	Systems	TC 1 A1: T 1001
	and Pacific Region	37 50	—Ifzal Ali, June 1991
	—Mohan Sundara Rajan, December 1986	No. 50	External Finance and the Role of Multilateral
No. 34	Changes in the Export Patterns of Asian and		Financial Institutions in South Asia:
	Pacific Developing Countries: An Empirical		Changing Patterns, Prospects, and Challenges
	Overview		—Jungsoo Lee, November 1991
	—Pradumna B. Rana, January 1987	No. 51	The Gender and Poverty Nexus: Issues and
No. 35	Agricultural Price Policy in Nepal		Policies
	—Gerald C. Nelson, March 1987		—M.G. Quibria, November 1993
No. 36	Implications of Falling Primary Commodity	No. 52	The Role of the State in Economic Development:
	Prices for Agricultural Strategy in the Philippines		Theory, the East Asian Experience,
	—Ifzal Ali, September 1987		and the Malaysian Case
No. 37	Determining Irrigation Charges: A Framework		—Jason Brown, December 1993
	—Prabhakar B. Ghate, October 1987	No. 53	The Economic Benefits of Potable Water Supply
No. 38	The Role of Fertilizer Subsidies in Agricultural		Projects to Households in Developing Countries
	Production: A Review of Select Issues		—Dale Whittington and Venkateswarlu Swarna,
	-M.G. Quibria, October 1987		January 1994
No. 39	Domestic Adjustment to External Shocks	No. 54	Growth Triangles: Conceptual Issues
	in Developing Asia		and Operational Problems
	—Jungsoo Lee, October 1987		-Min Tang and Myo Thant, February 1994
No. 40	Improving Domestic Resource Mobilization	No. 55	The Emerging Global Trading Environment
	through Financial Development: Indonesia		and Developing Asia
	—Philip Erquiaga, November 1987		—Arvind Panagariya, M.G. Quibria,
No. 41	Recent Trends and Issues on Foreign Direct		and Narhari Rao, July 1996
110. 11	Investment in Asian and Pacific Developing	No. 56	Aspects of Urban Water and Sanitation in
	Countries	110. 00	the Context of Rapid Urbanization in
	—P.B. Rana, March 1988		Developing Asia
No. 42	Manufactured Exports from the Philippines:		—Ernesto M. Pernia and Stella LF. Alabastro,
110. 42	A Sector Profile and an Agenda for Reform		September 1997
	—I. Ali, September 1988	No. 57	Challenges for Asia's Trade and Environment
No. 43	A Framework for Evaluating the Economic	NO. 57	—Douglas H. Brooks, January 1998
No. 45	e e e e e e e e e e e e e e e e e e e	No. 58	
	Benefits of Power Projects	10. 36	Economic Analysis of Health Sector Projects-
NT- 44	—I. Ali, August 1989		A Review of Issues, Methods, and Approaches
No. 44	Promotion of Manufactured Exports in Pakistan		—Ramesh Adhikari, Paul Gertler, and
	—Jungsoo Lee and Yoshihiro Iwasaki,	NT 50	Anneli Lagman, March 1999
	September 1989	No. 59	The Asian Crisis: An Alternate View
No. 45	Education and Labor Markets in Indonesia:	37 00	—Rajiv Kumar and Bibek Debroy, July 1999
	A Sector Survey	No. 60	Social Consequences of the Financial Crisis in
	-Ernesto M. Pernia and David N. Wilson,		Asia
	September 1989		—James C. Knowles, Ernesto M. Pernia, and
No. 46	Industrial Technology Capabilities		Mary Racelis, November 1999
	and Policies in Selected ADCs		

OCCASIONAL PAPERS (OP)

No. 1	Poverty in the People's Republic of China:	No. 5	Reforms in the Transitional Economies of Asia
	Recent Developments and Scope		—Pradumna B. Rana, December 1993
	for Bank Assistance	No. 6	Environmental Challenges in the People's Republic
	—K.H. Moinuddin, November 1992		of China and Scope for Bank Assistance
No. 2	The Eastern Islands of Indonesia: An Overview		-Elisabetta Capannelli and Omkar L. Shrestha,
	of Development Needs and Potential		December 1993
	—Brien K. Parkinson, January 1993	No. 7	Sustainable Development Environment
No. 3	Rural Institutional Finance in Bangladesh		and Poverty Nexus
	and Nepal: Review and Agenda for Reforms		—K.F. Jalal, December 1993
	—A.H.M.N. Chowdhury and Marcelia C. Garcia,	No. 8	Intermediate Services and Economic
	November 1993		Development: The Malaysian Example
No. 4	Fiscal Deficits and Current Account Imbalances		—Sutanu Behuria and Rahul Khullar, May 1994
	of the South Pacific Countries:	No. 9	Interest Rate Deregulation: A Brief Survey
	A Case Study of Vanuatu		of the Policy Issues and the Asian Experience
	—T.K. Jayaraman, December 1993		—Carlos J. Glower, July 1994

- No. 10 Some Aspects of Land Administration in Indonesia: Implications for Bank Operations —Sutanu Behuria, July 1994
- No. 11 Demographic and Socioeconomic Determinants of Contraceptive Use among Urban Women in the Melanesian Countries in the South Pacific: A Case Study of Port Vila Town in Vanuatu —T.K. Jayaraman, February 1995
- No. 12 Managing Development through Institution Building — Hilton L. Root, October 1995
- No. 13 Growth, Structural Change, and Optimal Poverty Interventions —Shiladitya Chatterjee, November 1995
- No. 14 Private Investment and Macroeconomic Environment in the South Pacific Island Countries: A Cross-Country Analysis

 —T.K. Jayaraman, October 1996
- No. 15 The Rural-Urban Transition in Viet Nam: Some Selected Issues
 —Sudipto Mundle and Brian Van Arkadie, October 1997
- No. 16 A New Approach to Setting the Future Transport Agenda

- —Roger Allport, Geoff Key, and Charles Melhuish June 1998
- No. 17 Adjustment and Distribution:
 The Indian Experience
 —Sudipto Mundle and V.B. Tulasidhar, June 1998
- No. 18 Tax Reforms in Viet Nam: A Selective Analysis
 —Sudipto Mundle, December 1998
- No. 19 Surges and Volatility of Private Capital Flows to Asian Developing Countries: Implications for Multilateral Development Banks —Pradumna B. Rana, December 1998
- No. 20 The Millennium Round and the Asian Economies: An Introduction —Dilip K. Das, October 1999
- No. 21 Occupational Segregation and the Gender Earnings Gap
 —Joseph E. Zveglich, Jr. and Yana van der Meulen Rodgers, December 1999
- No. 22 Information Technology: Next Locomotive of Growth?

 —Dilip K. Das, June 2000

STATISTICAL REPORT SERIES (SR)

- No. 1 Estimates of the Total External Debt of the Developing Member Countries of ADB: 1981-1983
 —I.P. David, September 1984
- No. 2 Multivariate Statistical and Graphical Classification Techniques Applied to the Problem of Grouping Countries

 —I.P. David and D.S. Maligalig, March 1985
- No. 3 Gross National Product (GNP) Measurement Issues in South Pacific Developing Member Countries of ADB —S.G. Tiwari, September 1985
- No. 4 Estimates of Comparable Savings in Selected DMCs
 —Hananto Sigit, December 1985
- No. 5 Keeping Sample Survey Design and Analysis Simple —I.P. David, December 1985
- No. 6 External Debt Situation in Asian
 Developing Countries
 —I.P. David and Jungsoo Lee, March 1986
- No. 7 Study of GNP Measurement Issues in the South Pacific Developing Member Countries. Part I: Existing National Accounts of SPDMCs-Analysis of Methodology and Application of SNA Concepts

 —P. Hodgkinson, October 1986
- No. 8 Study of GNP Measurement Issues in the South Pacific Developing Member Countries. Part II: Factors Affecting Intercountry Comparability of Per Capita GNP —P. Hodgkinson, October 1986
- No. 9 Survey of the External Debt Situation in Asian Developing Countries, 1985

- —Jungsoo Lee and I.P. David, April 1987 No. 10 A Survey of the External Debt Situation
- in Asian Developing Countries, 1986

 —Jungsoo Lee and I.P. David, April 1988
- No. 11 Changing Pattern of Financial Flows to Asian and Pacific Developing Countries

 —Jungsoo Lee and I.P. David, March 1989
- No. 12 The State of Agricultural Statistics in Southeast Asia
 —I.P. David, March 1989
- No. 13 A Survey of the External Debt Situation in Asian and Pacific Developing Countries: 1987-1988

 —Jungsoo Lee and I.P. David, July 1989
- No. 14 A Survey of the External Debt Situation in Asian and Pacific Developing Countries: 1988-1989 —Jungsoo Lee, May 1990
- No. 15 A Survey of the External Debt Situation in Asian and Pacific Developing Countrie s: 1989-1992 —Min Tang, June 1991
- No. 16 Recent Trends and Prospects of External Debt Situation and Financial Flows to Asian and Pacific Developing Countries —Min Tang and Aludia Pardo, June 1992
- No. 17 Purchasing Power Parity in Asian Developing Countries: A Co-Integration Test —Min Tang and Ronald Q. Butiong, April 1994
- No. 18 Capital Flows to Asian and Pacific Developing Countries: Recent Trends and Future Prospects —Min Tang and James Villafuerte, October 1995

SPECIAL STUDIES, COMPLIMENTARY (SSC)

(Published in-house; Available through ADB Office of External Relations; Free of Charge)

- Improving Domestic Resource Mobilization Through Financial Development: Overview September 1985
- Improving Domestic Resource Mobilization Through Financial Development: Bangladesh July 1986
- Improving Domestic Resource Mobilization Through Financial Development: Sri Lanka April 1987
- Improving Domestic Resource Mobilization Through Financial Development: India December 1987
- Financing Public Sector Development Expenditure in Selected Countries: Overview January 1988
- Study of Selected Industries: A Brief Report April 1988
- Financing Public Sector Development Expenditure in Selected Countries: Bangladesh June 1988
- Financing Public Sector Development Expenditure in Selected Countries: India June 1988
- Financing Public Sector Development Expenditure in Selected Countries: Indonesia June 1988
- 10. Financing Public Sector Development Expenditure in Selected Countries: Nepal June 1988
- 11. Financing Public Sector Development Expenditure in Selected Countries: Pakistan June 1988
- Financing Public Sector Development Expenditure in Selected Countries: Philippines June 1988
- 13. Financing Public Sector Development Expenditure in Selected Countries: Thailand June 1988
- 14. Towards Regional Cooperation in South Asia: ADB/EWC Symposium on Regional Cooperation in South Asia February 1988
- Evaluating Rice Market Intervention Policies: Some Asian Examples April 1988
- 16. Improving Domestic Resource Mobilization Through Financial Development: Nepal November 1988
- 17. Foreign Trade Barriers and Export Growth

- September 1988
- The Role of Small and Medium-Scale Industries in the Industrial Development of the Philippines April 1989
- 19. The Role of Small and Medium-Scale Manufacturing Industries in Industrial Development: The Experience of Selected Asian Countries January 1990
- National Accounts of Vanuatu, 1983-1987 January 1990
- National Accounts of Western Samoa, 1984-1986 February 1990
- Human Resource Policy and Economic Development: Selected Country Studies July 1990
- Export Finance: Some Asian Examples September 1990
- National Accounts of the Cook Islands, 1982-1986 September 1990
- Framework for the Economic and Financial Appraisal of Urban Development Sector Projects January 1994
- Framework and Criteria for the Appraisal and Socioeconomic Justification of Education Projects January 1994
- Guidelines for the Economic Analysis of Projects February 1997
- Investing in Asia
- Guidelines for the Economic Analysis of Telecommunication Projects
- Guidelines for the Economic Analysis of Water Supply Projects 1999

SPECIAL STUDIES, ADB (SS, ADB)

(Published in-house; Available commercially through ADB Office of External Relations)

Rural Poverty in Developing Asia Edited by M.G. Quibria

Vol. 1: Bangladesh, India, and Sri Lanka, 1994 \$35.00 (paperback)

Vol. 2: Indonesia, Republic of Korea, Philippines, and Thailand, 1996 $\$35.00\ (paperback)$

External Shocks and Policy Adjustments: Lessons from the Gulf Crisis

Edited by Naved Hamid and Shahid N. Zahid, 1995 \$15.00 (paperback)

- Gender Indicators of Developing Asian and Pacific Countries Asian Development Bank, 1993 \$25.00 (paperback)
- Urban Poverty in Asia: A Survey of Critical Issues Edited by Ernesto Pernia, 1994 \$20.00 (paperback)
- Indonesia-Malaysia-Thailand Growth Triangle: Theory to Practice Edited by Myo Thant and Min Tang, 1996 \$15.00 (paperback)
- Emerging Asia: Changes and Challenges Asian Development Bank, 1997 \$30.00 (paperback)
- Asian Exports Edited by Dilip Das, 1999 \$35.00 (paperback) \$55.00 (hardbound)
- Mortgage-Backed Securities Markets in Asia

- Edited by S.Ghon Rhee & Yutaka Shimomoto, 1999 \$35.00 (paperback)
- Corporate Governance and Finance in East Asia: A Study of Indonesia, Republic of Korea, Malaysia, Philippines and Thailand J. Zhuang, David Edwards, D. Webb, & Ma. Virginita Capulong

Vol. 1, 2000 \$10.00 (paperback) Vol. 2, 2001 \$15.00 (paperback)

Financial Management and Governance Issues Asian Development Bank, 2000

Cambodia \$10.00 (paperback)

People's Republic of China \$10.00 (paperback)

Mongolia \$10.00 (paperback) Pakistan \$10.00 (paperback) Papua New Guinea \$10.00 (paperback) Uzbekistan \$10.00 (paperback) Viet Nam \$10.00 (paperback)

Selected Developing Member Countries \$10.00 (paperback)

- Guidelines for the Economic Analysis of Projects Asian Development Bank, 1997 \$10.00 (paperback)
 - Handbook for the Economic Analysis of Water Supply Projects
- Asian Development Bank, 1999

\$15.00 (hardbound)

Handbook for the Economic Analysis of Health Sector Projects

Asian Development Bank, 2000 \$10.00 (paperback)

SPECIAL STUDIES, OUP (SS,OUP)

(Co-published with Oxford University Press; Available commercially through Oxford University Press Offices, Associated Companies, and Agents)

- Informal Finance: Some Findings from Asia Prabhu Ghate et. al., 1992 \$15.00 (paperback)
- Mongolia: A Centrally Planned Economy in Transition
 Asian Development Bank, 1992
 \$15.00 (paperback)
- Rural Poverty in Asia, Priority Issues and Policy Options
 Edited by M.G. Quibria, 1994
 \$25.00 (paperback)
- 4. Growth Triangles in Asia: A New Approach
 to Regional Economic Cooperation
 Edited by Myo Thant, Min Tang, and Hiroshi Kakazu
 1st ed., 1994 \$36.00 (hardbound)
 Revised ed., 1998 \$55.00 (hardbound)
- Urban Poverty in Asia: A Survey of Critical Issues *Edited by Ernesto Pernia*, 1994 \$18.00 (paperback)
- 6. Critical Issues in Asian Development: Theories, Experiences, and Policies Edited by M.G. Quibria, 1995 \$15.00 (paperback) \$36.00 (hardbound)
- From Centrally Planned to Market Economies:
 The Asian Approach
 Edited by Pradumna B. Rana and Naved Hamid, 1995
 Vol. 1: Overview
 \$36.00 (hardbound)
 - Vol. 2: People's Republic of China and Mongolia \$50.00 (hardbound)

- Vol. 3: Lao PDR, Myanmar, and Viet Nam \$50.00~(hardbound)
- 8. Financial Sector Development in Asia Edited by Shahid N. Zahid, 1995 \$50.00 (hardbound)
- Financial Sector Development in Asia: Country Studies Edited by Shahid N. Zahid, 1995 \$55.00 (hardbound)
- Fiscal Management and Economic Reform in the People's Republic of China Christine P.W. Wong, Christopher Heady, and Wing T. Woo, 1995 \$15.00 (paperback)
- Current Issues in Economic Development:
 An Asian Perspective
 Edited by M.G. Quibria and J. Malcolm Dowling, 1996
 \$50.00 (hardbound)
- 12. The Bangladesh Economy in Transition

 Edited by M.G. Quibria, 1997

 \$20.00 (hardbound)
- The Global Trading System and Developing Asia Edited by Arvind Panagariya, M.G. Quibria, and Narhari Rao, 1997 \$55.00 (hardbound)
- 14. Rising to the Challenge in Asia: A Study of Financial Markets

Asian Development Bank, 1999
Vol. 1 \$20.00 (paperback)
Vol. 2 \$15.00 (paperback)
Vol. 3 \$25.00 (paperback)
Vols. 4-12 \$20.00 (paperback)

SERIALS

(Co-published with Oxford University Press; Available commercially through Oxford University Press Offices, Associated Companies, and Agents)

- 1. Asian Development Outlook (ADO; annual) \$36.00 (paperback)
- 2. Key Indicators of Developing Asian and Pacific Countries (KI; annual) \$35.00~(paperback)

JOURNAL

(Published in-house; Available commercially through ADB Office of External Relations)

1. Asian Development Review (ADR; semiannual) \$5.00 per issue; \$8.00 per year (2 issues)