

PART I. GENERAL OUTLINE OF THE TRADE MATRIX FOR ASIA-PACIFIC REGION 2000

1.1 Introduction

The Trade Matrix for Asia-Pacific Region 2000 is designed for the purpose of providing basic information in the compilation work for the Asian International Input-Output Table 2000, scheduled to be published in March, 2006. The trade matrices are built at the aggregation level that is consistent with the uniform Asian input-output classification. Since the ordinary trade statistics do not cover services trade, the matrices are prepared for both export and import sides of merchandise trade and international supply of Electricity, Gas, and Water.

1.2 Format of the Matrices

Figures 1.1 and 1.2 respectively show images of the Trade Matrix for Asia-Pacific Region 2000 for exports and imports in a commodity category. While the row codes, at the left of the tables, classify the origin countries of the trade flows, the column codes at the top classify the destination. Therefore, the total exports of country X (Te^X) is at the right of the tables, and the total imports of country Y (Tm^Y) is at the bottom. All values, such as E^{XY} and M^{XY} , in the matrices are measured in units of 1,000 U.S. dollars, and the values in the brackets, which are under the export/import values, show the percentage shares of counterpart country B in the total exports/imports of country A (E^{AB} / Te^A or M^{BA} / Tm^A).

Note that exports in the matrices are valued at F.O.B prices, and imports are at C.I.F prices that include international shipping cost, freight and insurance premiums.

1.3 Commodity Classification

The basic commodity classification system of the Trade Matrix for Asia-Pacific Region 2000 is consistent with that of the Asian International Input-Output Table 2000. While the original classification¹ covers 76 commodities, the trade matrices include 62 from the 76, focusing on merchandise trade and international supplies of Electricity, Gas, and Water. In addition to those basic matrices, summary matrices, which are aggregated into both 4 and 20 types of commodity, are also

¹ The sector classification system of the Asian International Input-Output Table 2000 has been revised from the previous 78-sector system used in the *Asian International Input-Output Tables 1985, 1990, and 1995* (SDS No. 65, 73, and 82).

prepared. The commodity classification is presented in Table 1.1.

1.4 Countries

The Trade Matrix for Asia-Pacific Region 2000 focuses on the trade flows among 11 countries in the Asia-Pacific region, i.e., Indonesia, Malaysia, the Philippines, Singapore, Thailand, China (Mainland), Taiwan, Korea, Japan, the United States, and Hong Kong. Since the Asian International Input-Output Table 2000 includes EU15² and the Rest of the World (R.O.W.) as the exogenous part, the trade matrices also include both regions as exports to and imports from outside the Asia-Pacific region.

1.5 Special Accounts

Since the trade statistics of Singapore and Hong Kong present data for their re-exports, the export side of the Trade Matrix for Asia-Pacific Region 2000 accounts for Singapore re-exports and Hong Kong re-exports, which are shown in SNG1 and HKG1 part of the matrices. In addition, Hong Kong re-exports of the commodities from the Mainland China (HKG2) is specified in the trade matrices.

1.6 Notes on Indonesian and Korean Imports

While ordinary trade statistics rarely account for imports from the home country, for example, Japanese imports from Japan, the Trade Matrix for Asia-Pacific Region 2000 includes values in its parts of Indonesian imports from Indonesia (M^{II}), and Korean imports from Korea (M^{KK}). The former shows the trade flows to Indonesia from Batam Island, where the free trade zone belongs to Indonesia. The latter includes: (i) re-imports of final products, which their raw materials are previously exported from Korea; (ii) re-imports of raw materials, which have not been used in foreign production process; (iii) imports of commodities produced by Original Equipment Manufacturers (OEM). The case of (i) occupies 60 percent of the values.

² EU15 consists of France, Germany, Italy, Netherlands, Belgium, Luxembourg, the United Kingdom, Denmark, Ireland, Greece, Spain, Portugal, Austria, Sweden, and Finland.

1.7 Trade Specialization Coefficient

Trade Specialization Coefficient (TSC) is estimated using the Trade Matrix for Asia-Pacific Region 2000 to capture international competitiveness by commodity and by country. TSC of country A against country B (X^{AB}) can be defined as the ratio of net exports to the total trade in a particular commodity category. That is:

$$X^{AB} = (E^{AB} - M^{BA}) / (E^{AB} + M^{BA}).$$

where E^{AB} is exports of country A to country B, and M^{BA} is imports of country A from country B.

The value range of TSC takes from -1 to 1 . X^{AB} becomes 1 when country A exports to country B while importing nothing from country B. Contrary, when country A imports from country B while exporting nothing, X^{AB} becomes -1 . When exports are in balance with imports in country A, X^{AB} becomes zero. In case that X^{AB} is close to 1 , it can be said that country A has high competitiveness. In this regard, TSC is also called International Competitive Coefficient (ICC). An image of the TSC matrices is shown in Figure 1.3. Using these matrices, one can capture to what extent each country listed at the left side of the table has competitiveness against countries at the top.

Figure 1.1: Image of the Trade Matrices (Exports)

Classification Number: Commodity Name	Destination											Total Exports (TOT)		
	Indonesia (IND)	Malaysia (MYS)	Philippines (PHL)	Singapore (SNG)	Thailand (THA)	China (CHN)	Taiwan (TWN)	Korea (KOR)	Japan (JPN)	U.S.A. (USA)	Hong Kong (HKG)		EUI5 (EUI5)	R.O.W. (ROW)
Indonesia	E^{II} (E^{II}/Te^I)	E^{IM} (E^{IM}/Te^I)	E^{IP} (E^{IP}/Te^I)	E^{IS} (E^{IS}/Te^I)	E^{IT} (E^{IT}/Te^I)	E^{IC} (E^{IC}/Te^I)	E^{IN} (E^{IN}/Te^I)	E^{IK} (E^{IK}/Te^I)	E^{IJ} (E^{IJ}/Te^I)	E^{IU} (E^{IU}/Te^I)	E^{IH} (E^{IH}/Te^I)	E^{IE} (E^{IE}/Te^I)	E^{IR} (E^{IR}/Te^I)	Te^I (100%)
Malaysia	E^{MI} (E^{MI}/Te^M)	E^{MM} (E^{MM}/Te^M)	E^{MP} (E^{MP}/Te^M)	E^{MS} (E^{MS}/Te^M)	E^{MT} (E^{MT}/Te^M)	E^{MC} (E^{MC}/Te^M)	E^{MN} (E^{MN}/Te^M)	E^{MK} (E^{MK}/Te^M)	E^{MJ} (E^{MJ}/Te^M)	E^{MU} (E^{MU}/Te^M)	E^{MH} (E^{MH}/Te^M)	E^{ME} (E^{ME}/Te^M)	E^{MR} (E^{MR}/Te^M)	Te^M (100%)
Philippines	E^{PI} (E^{PI}/Te^P)	E^{PM} (E^{PM}/Te^P)	E^{PP} (E^{PP}/Te^P)	E^{PS} (E^{PS}/Te^P)	E^{PT} (E^{PT}/Te^P)	E^{PC} (E^{PC}/Te^P)	E^{PN} (E^{PN}/Te^P)	E^{PK} (E^{PK}/Te^P)	E^{PJ} (E^{PJ}/Te^P)	E^{PU} (E^{PU}/Te^P)	E^{PH} (E^{PH}/Te^P)	E^{PE} (E^{PE}/Te^P)	E^{PR} (E^{PR}/Te^P)	Te^P (100%)
Singapore	E^{SI} (E^{SI}/Te^S)	E^{SM} (E^{SM}/Te^S)	E^{SP} (E^{SP}/Te^S)	E^{SS} (E^{SS}/Te^S)	E^{ST} (E^{ST}/Te^S)	E^{SC} (E^{SC}/Te^S)	E^{SN} (E^{SN}/Te^S)	E^{SK} (E^{SK}/Te^S)	E^{SJ} (E^{SJ}/Te^S)	E^{SU} (E^{SU}/Te^S)	E^{SH} (E^{SH}/Te^S)	E^{SE} (E^{SE}/Te^S)	E^{SR} (E^{SR}/Te^S)	Te^S (100%)
Singapore Re-exports	E_1^{SI} (E_1^{SI}/Te_1^S)	E_1^{SM} (E_1^{SM}/Te_1^S)	E_1^{SP} (E_1^{SP}/Te_1^S)	E_1^{SS} (E_1^{SS}/Te_1^S)	E_1^{ST} (E_1^{ST}/Te_1^S)	E_1^{SC} (E_1^{SC}/Te_1^S)	E_1^{SN} (E_1^{SN}/Te_1^S)	E_1^{SK} (E_1^{SK}/Te_1^S)	E_1^{SJ} (E_1^{SJ}/Te_1^S)	E_1^{SU} (E_1^{SU}/Te_1^S)	E_1^{SH} (E_1^{SH}/Te_1^S)	E_1^{SE} (E_1^{SE}/Te_1^S)	E_1^{SR} (E_1^{SR}/Te_1^S)	Te_1^S (100%)
Singapore Re-exports (China Origin)	E_1^{SI} (E_1^{SI}/Te_1^S)	E_1^{SM} (E_1^{SM}/Te_1^S)	E_1^{SP} (E_1^{SP}/Te_1^S)	E_1^{SS} (E_1^{SS}/Te_1^S)	E_1^{ST} (E_1^{ST}/Te_1^S)	E_1^{SC} (E_1^{SC}/Te_1^S)	E_1^{SN} (E_1^{SN}/Te_1^S)	E_1^{SK} (E_1^{SK}/Te_1^S)	E_1^{SJ} (E_1^{SJ}/Te_1^S)	E_1^{SU} (E_1^{SU}/Te_1^S)	E_1^{SH} (E_1^{SH}/Te_1^S)	E_1^{SE} (E_1^{SE}/Te_1^S)	E_1^{SR} (E_1^{SR}/Te_1^S)	Te_1^S (100%)
Thailand	E^{TI} (E^{TI}/Te^T)	E^{TM} (E^{TM}/Te^T)	E^{TP} (E^{TP}/Te^T)	E^{TS} (E^{TS}/Te^T)	E^{TT} (E^{TT}/Te^T)	E^{TC} (E^{TC}/Te^T)	E^{TN} (E^{TN}/Te^T)	E^{TK} (E^{TK}/Te^T)	E^{TJ} (E^{TJ}/Te^T)	E^{TU} (E^{TU}/Te^T)	E^{TH} (E^{TH}/Te^T)	E^{TE} (E^{TE}/Te^T)	E^{TR} (E^{TR}/Te^T)	Te^T (100%)
China	E^{CI} (E^{CI}/Te^C)	E^{CM} (E^{CM}/Te^C)	E^{CP} (E^{CP}/Te^C)	E^{CS} (E^{CS}/Te^C)	E^{CT} (E^{CT}/Te^C)	E^{CC} (E^{CC}/Te^C)	E^{CN} (E^{CN}/Te^C)	E^{CK} (E^{CK}/Te^C)	E^{CJ} (E^{CJ}/Te^C)	E^{CU} (E^{CU}/Te^C)	E^{CH} (E^{CH}/Te^C)	E^{CE} (E^{CE}/Te^C)	E^{CR} (E^{CR}/Te^C)	Te^C (100%)
China	E^{CI} (E^{CI}/Te^C)	E^{CM} (E^{CM}/Te^C)	E^{CP} (E^{CP}/Te^C)	E^{CS} (E^{CS}/Te^C)	E^{CT} (E^{CT}/Te^C)	E^{CC} (E^{CC}/Te^C)	E^{CN} (E^{CN}/Te^C)	E^{CK} (E^{CK}/Te^C)	E^{CJ} (E^{CJ}/Te^C)	E^{CU} (E^{CU}/Te^C)	E^{CH} (E^{CH}/Te^C)	E^{CE} (E^{CE}/Te^C)	E^{CR} (E^{CR}/Te^C)	Te^C (100%)
Taiwan	E^{NI} (E^{NI}/Te^N)	E^{NM} (E^{NM}/Te^N)	E^{NP} (E^{NP}/Te^N)	E^{NS} (E^{NS}/Te^N)	E^{NT} (E^{NT}/Te^N)	E^{NC} (E^{NC}/Te^N)	E^{NN} (E^{NN}/Te^N)	E^{NK} (E^{NK}/Te^N)	E^{NJ} (E^{NJ}/Te^N)	E^{NU} (E^{NU}/Te^N)	E^{NH} (E^{NH}/Te^N)	E^{NE} (E^{NE}/Te^N)	E^{NR} (E^{NR}/Te^N)	Te^N (100%)
Taiwan	E^{NI} (E^{NI}/Te^N)	E^{NM} (E^{NM}/Te^N)	E^{NP} (E^{NP}/Te^N)	E^{NS} (E^{NS}/Te^N)	E^{NT} (E^{NT}/Te^N)	E^{NC} (E^{NC}/Te^N)	E^{NN} (E^{NN}/Te^N)	E^{NK} (E^{NK}/Te^N)	E^{NJ} (E^{NJ}/Te^N)	E^{NU} (E^{NU}/Te^N)	E^{NH} (E^{NH}/Te^N)	E^{NE} (E^{NE}/Te^N)	E^{NR} (E^{NR}/Te^N)	Te^N (100%)
Korea	E^{KI} (E^{KI}/Te^K)	E^{KM} (E^{KM}/Te^K)	E^{KP} (E^{KP}/Te^K)	E^{KS} (E^{KS}/Te^K)	E^{KT} (E^{KT}/Te^K)	E^{KC} (E^{KC}/Te^K)	E^{KN} (E^{KN}/Te^K)	E^{KK} (E^{KK}/Te^K)	E^{KJ} (E^{KJ}/Te^K)	E^{KU} (E^{KU}/Te^K)	E^{KH} (E^{KH}/Te^K)	E^{KE} (E^{KE}/Te^K)	E^{KR} (E^{KR}/Te^K)	Te^K (100%)
Korea	E^{KI} (E^{KI}/Te^K)	E^{KM} (E^{KM}/Te^K)	E^{KP} (E^{KP}/Te^K)	E^{KS} (E^{KS}/Te^K)	E^{KT} (E^{KT}/Te^K)	E^{KC} (E^{KC}/Te^K)	E^{KN} (E^{KN}/Te^K)	E^{KK} (E^{KK}/Te^K)	E^{KJ} (E^{KJ}/Te^K)	E^{KU} (E^{KU}/Te^K)	E^{KH} (E^{KH}/Te^K)	E^{KE} (E^{KE}/Te^K)	E^{KR} (E^{KR}/Te^K)	Te^K (100%)
Japan	E^{JI} (E^{JI}/Te^J)	E^{JM} (E^{JM}/Te^J)	E^{JP} (E^{JP}/Te^J)	E^{JS} (E^{JS}/Te^J)	E^{JT} (E^{JT}/Te^J)	E^{JC} (E^{JC}/Te^J)	E^{JN} (E^{JN}/Te^J)	E^{JK} (E^{JK}/Te^J)	E^{JJ} (E^{JJ}/Te^J)	E^{JU} (E^{JU}/Te^J)	E^{JH} (E^{JH}/Te^J)	E^{JE} (E^{JE}/Te^J)	E^{JR} (E^{JR}/Te^J)	Te^J (100%)
Japan	E^{JI} (E^{JI}/Te^J)	E^{JM} (E^{JM}/Te^J)	E^{JP} (E^{JP}/Te^J)	E^{JS} (E^{JS}/Te^J)	E^{JT} (E^{JT}/Te^J)	E^{JC} (E^{JC}/Te^J)	E^{JN} (E^{JN}/Te^J)	E^{JK} (E^{JK}/Te^J)	E^{JJ} (E^{JJ}/Te^J)	E^{JU} (E^{JU}/Te^J)	E^{JH} (E^{JH}/Te^J)	E^{JE} (E^{JE}/Te^J)	E^{JR} (E^{JR}/Te^J)	Te^J (100%)
U.S.A.	E^{UI} (E^{UI}/Te^U)	E^{UM} (E^{UM}/Te^U)	E^{UP} (E^{UP}/Te^U)	E^{US} (E^{US}/Te^U)	E^{UT} (E^{UT}/Te^U)	E^{UC} (E^{UC}/Te^U)	E^{UN} (E^{UN}/Te^U)	E^{UK} (E^{UK}/Te^U)	E^{UJ} (E^{UJ}/Te^U)	E^{UU} (E^{UU}/Te^U)	E^{UH} (E^{UH}/Te^U)	E^{UE} (E^{UE}/Te^U)	E^{UR} (E^{UR}/Te^U)	Te^U (100%)
U.S.A.	E^{UI} (E^{UI}/Te^U)	E^{UM} (E^{UM}/Te^U)	E^{UP} (E^{UP}/Te^U)	E^{US} (E^{US}/Te^U)	E^{UT} (E^{UT}/Te^U)	E^{UC} (E^{UC}/Te^U)	E^{UN} (E^{UN}/Te^U)	E^{UK} (E^{UK}/Te^U)	E^{UJ} (E^{UJ}/Te^U)	E^{UU} (E^{UU}/Te^U)	E^{UH} (E^{UH}/Te^U)	E^{UE} (E^{UE}/Te^U)	E^{UR} (E^{UR}/Te^U)	Te^U (100%)
Hong Kong	E^{HI} (E^{HI}/Te^H)	E^{HM} (E^{HM}/Te^H)	E^{HP} (E^{HP}/Te^H)	E^{HS} (E^{HS}/Te^H)	E^{HT} (E^{HT}/Te^H)	E^{HC} (E^{HC}/Te^H)	E^{HN} (E^{HN}/Te^H)	E^{HK} (E^{HK}/Te^H)	E^{HJ} (E^{HJ}/Te^H)	E^{HU} (E^{HU}/Te^H)	E^{HH} (E^{HH}/Te^H)	E^{HE} (E^{HE}/Te^H)	E^{HR} (E^{HR}/Te^H)	Te^H (100%)
Hong Kong	E^{HI} (E^{HI}/Te^H)	E^{HM} (E^{HM}/Te^H)	E^{HP} (E^{HP}/Te^H)	E^{HS} (E^{HS}/Te^H)	E^{HT} (E^{HT}/Te^H)	E^{HC} (E^{HC}/Te^H)	E^{HN} (E^{HN}/Te^H)	E^{HK} (E^{HK}/Te^H)	E^{HJ} (E^{HJ}/Te^H)	E^{HU} (E^{HU}/Te^H)	E^{HH} (E^{HH}/Te^H)	E^{HE} (E^{HE}/Te^H)	E^{HR} (E^{HR}/Te^H)	Te^H (100%)
Hong Kong Re-exports	E_1^{HI} (E_1^{HI}/Te_1^H)	E_1^{HM} (E_1^{HM}/Te_1^H)	E_1^{HP} (E_1^{HP}/Te_1^H)	E_1^{HS} (E_1^{HS}/Te_1^H)	E_1^{HT} (E_1^{HT}/Te_1^H)	E_1^{HC} (E_1^{HC}/Te_1^H)	E_1^{HN} (E_1^{HN}/Te_1^H)	E_1^{HK} (E_1^{HK}/Te_1^H)	E_1^{HJ} (E_1^{HJ}/Te_1^H)	E_1^{HU} (E_1^{HU}/Te_1^H)	E_1^{HH} (E_1^{HH}/Te_1^H)	E_1^{HE} (E_1^{HE}/Te_1^H)	E_1^{HR} (E_1^{HR}/Te_1^H)	Te_1^H (100%)
Hong Kong Re-exports	E_1^{HI} (E_1^{HI}/Te_1^H)	E_1^{HM} (E_1^{HM}/Te_1^H)	E_1^{HP} (E_1^{HP}/Te_1^H)	E_1^{HS} (E_1^{HS}/Te_1^H)	E_1^{HT} (E_1^{HT}/Te_1^H)	E_1^{HC} (E_1^{HC}/Te_1^H)	E_1^{HN} (E_1^{HN}/Te_1^H)	E_1^{HK} (E_1^{HK}/Te_1^H)	E_1^{HJ} (E_1^{HJ}/Te_1^H)	E_1^{HU} (E_1^{HU}/Te_1^H)	E_1^{HH} (E_1^{HH}/Te_1^H)	E_1^{HE} (E_1^{HE}/Te_1^H)	E_1^{HR} (E_1^{HR}/Te_1^H)	Te_1^H (100%)
Hong Kong Re-exports (China Origin)	E_2^{HI} (E_2^{HI}/Te_2^H)	E_2^{HM} (E_2^{HM}/Te_2^H)	E_2^{HP} (E_2^{HP}/Te_2^H)	E_2^{HS} (E_2^{HS}/Te_2^H)	E_2^{HT} (E_2^{HT}/Te_2^H)	E_2^{HC} (E_2^{HC}/Te_2^H)	E_2^{HN} (E_2^{HN}/Te_2^H)	E_2^{HK} (E_2^{HK}/Te_2^H)	E_2^{HJ} (E_2^{HJ}/Te_2^H)	E_2^{HU} (E_2^{HU}/Te_2^H)	E_2^{HH} (E_2^{HH}/Te_2^H)	E_2^{HE} (E_2^{HE}/Te_2^H)	E_2^{HR} (E_2^{HR}/Te_2^H)	Te_2^H (100%)
Hong Kong Re-exports (China Origin)	E_2^{HI} (E_2^{HI}/Te_2^H)	E_2^{HM} (E_2^{HM}/Te_2^H)	E_2^{HP} (E_2^{HP}/Te_2^H)	E_2^{HS} (E_2^{HS}/Te_2^H)	E_2^{HT} (E_2^{HT}/Te_2^H)	E_2^{HC} (E_2^{HC}/Te_2^H)	E_2^{HN} (E_2^{HN}/Te_2^H)	E_2^{HK} (E_2^{HK}/Te_2^H)	E_2^{HJ} (E_2^{HJ}/Te_2^H)	E_2^{HU} (E_2^{HU}/Te_2^H)	E_2^{HH} (E_2^{HH}/Te_2^H)	E_2^{HE} (E_2^{HE}/Te_2^H)	E_2^{HR} (E_2^{HR}/Te_2^H)	Te_2^H (100%)

Figure 1.2: Image of the Trade Matrices (Imports)

Classification Number: Commodity Name		Destination									
Origin	Indonesia (IND)	Malaysia (MYS)	Philippines (PHL)	Singapore (SNG)	Thailand (THA)	China (CHN)	Taiwan (TWN)	Korea (KOR)	Japan (JPN)	U.S.A. (USA)	Hong Kong (HKG)
Indonesia	M ^{II} (M ^{II} /Tm ^I)	M ^{IM} (M ^{IM} /Tm ^M)	M ^{IP} (M ^{IP} /Tm ^P)	M ^{IS} (M ^{IS} /Tm ^S)	M ^{IT} (M ^{IT} /Tm ^T)	M ^{IC} (M ^{IC} /Tm ^C)	M ^{IN} (M ^{IN} /Tm ^N)	M ^{IK} (M ^{IK} /Tm ^K)	M ^{IJ} (M ^{IJ} /Tm ^J)	M ^{IU} (M ^{IU} /Tm ^U)	M ^{IH} (M ^{IH} /Tm ^H)
Malaysia	M ^{MI} (M ^{MI} /Tm ^I)	M ^{MM} (M ^{MM} /Tm ^M)	M ^{MP} (M ^{MP} /Tm ^P)	M ^{MS} (M ^{MS} /Tm ^S)	M ^{MT} (M ^{MT} /Tm ^T)	M ^{MC} (M ^{MC} /Tm ^C)	M ^{MN} (M ^{MN} /Tm ^N)	M ^{MK} (M ^{MK} /Tm ^K)	M ^{MJ} (M ^{MJ} /Tm ^J)	M ^{MU} (M ^{MU} /Tm ^U)	M ^{MH} (M ^{MH} /Tm ^H)
Philippines	M ^{PI} (M ^{PI} /Tm ^I)	M ^{PM} (M ^{PM} /Tm ^M)	M ^{PP} (M ^{PP} /Tm ^P)	M ^{PS} (M ^{PS} /Tm ^S)	M ^{PT} (M ^{PT} /Tm ^T)	M ^{PC} (M ^{PC} /Tm ^C)	M ^{PN} (M ^{PN} /Tm ^N)	M ^{PK} (M ^{PK} /Tm ^K)	M ^{PJ} (M ^{PJ} /Tm ^J)	M ^{PU} (M ^{PU} /Tm ^U)	M ^{PH} (M ^{PH} /Tm ^H)
Singapore	M ^{SI} (M ^{SI} /Tm ^I)	M SM (M SM /Tm ^M)	M ^{SP} (M ^{SP} /Tm ^P)	M ^{SS} (M ^{SS} /Tm ^S)	M ST (M ST /Tm ^T)	M ^{SC} (M ^{SC} /Tm ^C)	M ^{SN} (M ^{SN} /Tm ^N)	M ^{SK} (M ^{SK} /Tm ^K)	M ^{SJ} (M ^{SJ} /Tm ^J)	M ^{SU} (M ^{SU} /Tm ^U)	M ^{SH} (M ^{SH} /Tm ^H)
Thailand	M ^{TI} (M ^{TI} /Tm ^I)	M TM (M TM /Tm ^M)	M ^{TP} (M ^{TP} /Tm ^P)	M ^{TS} (M ^{TS} /Tm ^S)	M ^{TT} (M ^{TT} /Tm ^T)	M ^{TC} (M ^{TC} /Tm ^C)	M ^{TN} (M ^{TN} /Tm ^N)	M ^{TK} (M ^{TK} /Tm ^K)	M ^{TJ} (M ^{TJ} /Tm ^J)	M ^{TU} (M ^{TU} /Tm ^U)	M TH (M TH /Tm ^H)
China	M ^{CI} (M ^{CI} /Tm ^I)	M ^{CM} (M ^{CM} /Tm ^M)	M ^{CP} (M ^{CP} /Tm ^P)	M ^{CS} (M ^{CS} /Tm ^S)	M ^{CT} (M ^{CT} /Tm ^T)	M ^{CC} (M ^{CC} /Tm ^C)	M ^{CN} (M ^{CN} /Tm ^N)	M ^{CK} (M ^{CK} /Tm ^K)	M ^{CJ} (M ^{CJ} /Tm ^J)	M ^{CU} (M ^{CU} /Tm ^U)	M ^{CH} (M ^{CH} /Tm ^H)
Taiwan	M ^{NI} (M ^{NI} /Tm ^I)	M ^{NM} (M ^{NM} /Tm ^M)	M ^{NP} (M ^{NP} /Tm ^P)	M ^{NS} (M ^{NS} /Tm ^S)	M ^{NT} (M ^{NT} /Tm ^T)	M ^{NC} (M ^{NC} /Tm ^C)	M ^{NN} (M ^{NN} /Tm ^N)	M ^{NK} (M ^{NK} /Tm ^K)	M ^{NJ} (M ^{NJ} /Tm ^J)	M ^{NU} (M ^{NU} /Tm ^U)	M ^{NH} (M ^{NH} /Tm ^H)
Korea	M ^{KI} (M ^{KI} /Tm ^I)	M ^{KM} (M ^{KM} /Tm ^M)	M ^{KP} (M ^{KP} /Tm ^P)	M ^{KS} (M ^{KS} /Tm ^S)	M ^{KT} (M ^{KT} /Tm ^T)	M ^{KC} (M ^{KC} /Tm ^C)	M ^{KN} (M ^{KN} /Tm ^N)	M ^{KK} (M ^{KK} /Tm ^K)	M ^{KJ} (M ^{KJ} /Tm ^J)	M ^{KU} (M ^{KU} /Tm ^U)	M ^{KH} (M ^{KH} /Tm ^H)
Japan	M ^{JI} (M ^{JI} /Tm ^I)	M ^{JM} (M ^{JM} /Tm ^M)	M ^{JP} (M ^{JP} /Tm ^P)	M ^{JS} (M ^{JS} /Tm ^S)	M ^{JT} (M ^{JT} /Tm ^T)	M ^{JC} (M ^{JC} /Tm ^C)	M ^{JN} (M ^{JN} /Tm ^N)	M ^{JK} (M ^{JK} /Tm ^K)	M ^{JJ} (M ^{JJ} /Tm ^J)	M ^{JU} (M ^{JU} /Tm ^U)	M ^{JH} (M ^{JH} /Tm ^H)
U.S.A.	M ^{UI} (M ^{UI} /Tm ^I)	M ^{UM} (M ^{UM} /Tm ^M)	M ^{UP} (M ^{UP} /Tm ^P)	M ^{US} (M ^{US} /Tm ^S)	M ^{UT} (M ^{UT} /Tm ^T)	M ^{UC} (M ^{UC} /Tm ^C)	M ^{UN} (M ^{UN} /Tm ^N)	M ^{UK} (M ^{UK} /Tm ^K)	M ^{UJ} (M ^{UJ} /Tm ^J)	M ^{UU} (M ^{UU} /Tm ^U)	M ^{UH} (M ^{UH} /Tm ^H)
Hong Kong	M ^{HI} (M ^{HI} /Tm ^I)	M ^{HM} (M ^{HM} /Tm ^M)	M ^{HP} (M ^{HP} /Tm ^P)	M ^{HS} (M ^{HS} /Tm ^S)	M ^{HT} (M ^{HT} /Tm ^T)	M ^{HC} (M ^{HC} /Tm ^C)	M ^{HN} (M ^{HN} /Tm ^N)	M ^{HK} (M ^{HK} /Tm ^K)	M ^{HJ} (M ^{HJ} /Tm ^J)	M ^{HU} (M ^{HU} /Tm ^U)	M ^{HH} (M ^{HH} /Tm ^H)
EU15	M ^{EI} (M ^{EI} /Tm ^I)	M ^{EM} (M ^{EM} /Tm ^M)	M ^{EP} (M ^{EP} /Tm ^P)	M ^{ES} (M ^{ES} /Tm ^S)	M ^{ET} (M ^{ET} /Tm ^T)	M ^{EC} (M ^{EC} /Tm ^C)	M ^{EN} (M ^{EN} /Tm ^N)	M ^{EK} (M ^{EK} /Tm ^K)	M ^{EJ} (M ^{EJ} /Tm ^J)	M ^{EU} (M ^{EU} /Tm ^U)	M ^{EH} (M ^{EH} /Tm ^H)
R.O.W.	M ^{RI} (M ^{RI} /Tm ^I)	M ^{RM} (M ^{RM} /Tm ^M)	M ^{RP} (M ^{RP} /Tm ^P)	M ^{RS} (M ^{RS} /Tm ^S)	M ^{RT} (M ^{RT} /Tm ^T)	M ^{RC} (M ^{RC} /Tm ^C)	M ^{RN} (M ^{RN} /Tm ^N)	M ^{RK} (M ^{RK} /Tm ^K)	M ^{RJ} (M ^{RJ} /Tm ^J)	M ^{RU} (M ^{RU} /Tm ^U)	M ^{RH} (M ^{RH} /Tm ^H)
Total Imports	Tm ^I (100%)	Tm ^M (100%)	Tm ^P (100%)	Tm ^S (100%)	Tm ^T (100%)	Tm ^C (100%)	Tm ^N (100%)	Tm ^K (100%)	Tm ^J (100%)	Tm ^U (100%)	Tm ^H (100%)

Figure 1.3: Image of the Trade Specialization Coefficient Matrices

Classification Number: Commodity Name	Counterpart Country													Total Competitiveness (TOT)
	Indonesia (IND)	Malaysia (MYS)	Philippines (PHL)	Singapore (SNG)	Thailand (THA)	China (CHN)	Taiwan (TWN)	Korea (KOR)	Japan (JPN)	U.S.A. (USA)	Hong Kong (HKG)	EU15 (EU15)	R.O.W. (ROW)	
Indonesia	X ^{II}	X ^{IM}	X ^{IP}	X ^{IS}	X ^{IT}	X ^{IC}	X ^{IN}	X ^{IK}	X ^{IJ}	X ^{IU}	X ^{IH}	X ^{IE}	X ^{IR}	Tx ^I
Malaysia	X ^{MI}	X ^{MM}	X ^{MP}	X ^{MS}	X ^{MT}	X ^{MC}	X ^{MN}	X ^{MK}	X ^{MJ}	X ^{MU}	X ^{MH}	X ^{ME}	X ^{MR}	Tx ^M
Philippines	X ^{PI}	X ^{PM}	X ^{PP}	X ^{PS}	X ^{PT}	X ^{PC}	X ^{PN}	X ^{PK}	X ^{PJ}	X ^{PU}	X ^{PH}	X ^{PE}	X ^{PR}	Tx ^P
Singapore	X ^{SI}	X SM	X ^{SP}	X ^{SS}	X ST	X ^{SC}	X ^{SN}	X ^{SK}	X ^{SJ}	X ^{SU}	X ^{SH}	X ^{SE}	X ^{SR}	Tx ^S
Thailand	X ^{TI}	X TM	X ^{TP}	X ^{TS}	X ^{TT}	X ^{TC}	X ^{TN}	X ^{TK}	X ^{TJ}	X ^{TU}	X TH	X ^{TE}	X ^{TR}	Tx ^T
China	X ^{CI}	X ^{CM}	X ^{CP}	X ^{CS}	X ^{CT}	X ^{CC}	X ^{CN}	X ^{CK}	X ^{CJ}	X ^{CU}	X ^{CH}	X ^{CE}	X ^{CR}	Tx ^C
Taiwan	X ^{NI}	X ^{NM}	X ^{NP}	X ^{NS}	X ^{NT}	X ^{NC}	X ^{NN}	X ^{NK}	X ^{NJ}	X ^{NU}	X ^{NH}	X ^{NE}	X ^{NR}	Tx ^N
Korea	X ^{KI}	X ^{KM}	X ^{KP}	X ^{KS}	X ^{KT}	X ^{KC}	X ^{KN}	X ^{KK}	X ^{KJ}	X ^{KU}	X ^{KH}	X ^{KE}	X ^{KR}	Tx ^K
Japan	X ^{JI}	X ^{JM}	X ^{JP}	X ^{JS}	X ^{JT}	X ^{JC}	X ^{JN}	X ^{JK}	X ^{JJ}	X ^{JU}	X ^{JH}	X ^{JE}	X ^{JR}	Tx ^J
U.S.A.	X ^{UI}	X ^{UM}	X ^{UP}	X ^{US}	X ^{UT}	X ^{UC}	X ^{UN}	X ^{UK}	X ^{UJ}	X ^{UU}	X ^{UH}	X ^{UE}	X ^{UR}	Tx ^U
Hong Kong	X ^{HI}	X ^{HM}	X ^{HP}	X ^{HS}	X ^{HT}	X ^{HC}	X ^{HN}	X ^{HK}	X ^{HJ}	X ^{HU}	X ^{HH}	X ^{HE}	X ^{HR}	Tx ^H

Table 1.1: Commodity Classification

4-Product Classification		20-Product Classification		62-Product Classification	
Code	Description	Code	Description	Code	Description
001	Agriculture, livestock, forestry and fishery	001	Paddy	001	Paddy
		002	Other agricultural products	002	Other grain
				003	Food crops
				004	Non-food crops
		003	Livestock and poultry	005	Livestock and poultry
		004	Forestry	006	Forestry
		005	Fishery	007	Fishery
002	Mining and quarrying	006	Crude petroleum and natural gas	008	Crude petroleum and natural gas
		007	Other mining	009	Iron ore
003	Manufacturing			010	Other metallic ore
				011	Non-metallic ore and quarrying
		008	Food, beverage and tobacco	012	Milled grain and flour
				013	Fish products
				014	Slaughtering and meat products
				015	Other food products
				016	Beverage
				017	Tobacco
		009	Textile, leather, and the products thereof	018	Spinning
				019	Weaving and dyeing
				020	Knitting
				021	Wearing apparel
				022	Other made-up textile products
				023	Leather and leather products
		010	Timber and wooden products	024	Timber
				025	Wooden furniture
				026	Other wooden products
		011	Pulp, paper and printing	027	Pulp and paper
				028	Printing and publishing
		012	Chemical products	029	Synthetic resins and fiber
				030	Basic industrial chemicals
		031	Chemical fertilizers and pesticides		
		032	Drugs and medicine		
		033	Other chemical products		
013	Petroleum and petro products	034	Refined petroleum and its products		
019	Other manufacturing products	035	Plastic products		
014	Rubber products	036	Tires and tubes		
		037	Other rubber products		
015	Non-metallic mineral products	038	Cement and cement products		
		039	Glass and glass products		
		040	Other non-metallic mineral products		
016	Metal products	041	Iron and steel		
		042	Non-ferrous metal		
		043	Metal products		
017	Machinery	044	Boilers, Engines and turbines		
		045	General machinery		
		046	Metal working machinery		
		047	Specialized machinery		
		048	Heavy Electrical equipment		
		049	Television sets, radios, audios and communication equipment		
		050	Electronic computing equipment		
		051	Semiconductors and integrated circuits		
		052	Other electronics and electronic products		
		053	Household electrical equipment		
		054	Lighting fixtures, batteries, wiring and others		
018	Transport equipment	055	Motor vehicles		
		056	Motor cycles		
		057	Shipbuilding		
		058	Other transport equipment		
019	Other manufacturing products	059	Precision machines		
		060	Other manufacturing products		
004	Electricity, gas, and water supply	020	Electricity, gas, and water supply	061	Electricity and gas
				062	Water supply