













			(Millions U	S\$, %)	 (i) Growth in intra-East Asian exports (1990))-2003)
	1990		2003		All products	1919
	Value	Share	Value	Share	Machinery goods (total)	3229
Machinery goods: parts	s and compe	ments			- Machinery final goods	1839
Intra-East Asia	54,336	39.6	300,137	57.5	- Machinery parts and components	4529
Others	82,915	60.4	221,637	42.5	(ii) Contribution to growth in intra-East Asia	in export
(U.S.)	(39,624)	(28.9)	(82,543)	(15.8)	Machinery goods (total)	669
					- Machinery final goods	189
Total	137,251	100.0	521,774	100.0	- Machinery parts and components	489
Machinery goods: final	goods				Factors of growth in inter-regional exports	
Intra-East Asia	50,932	23.2	144,368	28.8	(i) Growth in inter-regional exports (1990-2	003)
Others	168,597	76.8	356,732	71.2	All products	1259
(U.S.)	(70,183)	(32.0)	(143,634)	(28.7)	Machinery goods (total)	1309
					- Machinery final goods	1129
Total	219,529	100.0	501,100	100.0	- Machinery parts and components	1679
					(ii) Contribution to growth in inter-regional	exports
Machinery goods: total					Machinery goods (total)	609
Intra-East Asia	105,268	29.5	444,505	43.5	- Machinery final goods	359
Others	251,512	70.5	578,369	56.5	- Machinery parts and components	269
(U.S.)	(109,807)	(30.8)	(226,177)	(22.1)	· · · · ·	
					Factors of growth in East Asian exports	
Total	356,780	100.0	1,022,875	100.0	(i) Growth in East Asian exports (1990-2002	3)
					All products	1509
All products					Machinery goods (total)	187
Intra-East Asia	270,465	38.5	786,197	44.7	- Machinery final goods	
Others	432,736	61.5	973,074	55.3	- Machinery parts and components	280
(U.S.)	(174,978)	(24.9)	(355,643)	(20.2)	(ii) Contribution to growth in East Asian ex-	ports
					Machinery goods (total)	63
T 1	702 201	100.0	1 750 271	100.0	Machinery final goods	27

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- Fact 7: In the machinery par coefficients in are estimated compared with	standara gravity equation e rts & components trade, not absolute values for geograpin the case of intra-East-As h intra-Europe trade.	tably low phical distance ia trade,
 Kimura, Tak 	ahashi, and Hayakawa (2005).	
 Fact 8: In the version, positi between exponing intra-East-Asi 	gravity equation exercise w ve coefficients are estimated ting and importing countrie ia trade.	vith a modified d for income gap es in the case of
 Kimura, Tak 	ahashi, and Hayakawa (2005).	
 Kimura, Tak 	ahashi, and Hayakawa (2005).	

		The whole sample		Initia-East-Asia only		e omy
	1995	2003	1995	2003	1995	2003
	(1)	(2)	(3)	(4)	(5)	(6)
Distance	-1.64**	-1.36**	-0.70**	-0.64**	-1.15**	-1.27**
	(0.11)	(0.10)	(0.15)	(0.17)	(0.10)	(0.10)
Exporter_GDP	2.03**	1.86**	0.68**	0.69**	1.07**	1.07**
	(0.05)	(0.05)	(0.09)	(0.09)	(0.05)	(0.05)
Importer_GDP	1.18**	1.19**	0.18	0.42**	0.89**	0.92**
	(0.05)	(0.05)	(0.10)	(0.11)	(0.05)	(0.06)
Exporter_per capita GDP	0.87**	0.72**	0.56**	0.10	0.44**	-0.22*
	(0.06)	(0.05)	(0.07)	(0.08)	(0.07)	(0.10)
Importer_per capita GDP	0.59**	0.37**	0.57**	0.24*	-0.04	-0.27*
	(0.06)	(0.06)	(0.07)	(0.09)	(0.09)	(0.10)
Intra-East-Asia Dummy	3.04**	3.11**				
	(0.29)	(0.29)				
Intra-Europe Dummy	-1.42**	-1.05**				
	(0.25)	(0.24)				
Language	2.00**	1.58**	1.16**	1.63**	-0.36	-0.36
	(0.21)	(0.19)	(0.29)	(0.25)	(0.20)	(0.20)
constant	-67.44**	-62.35**	-6.86	-6.73	-28.94**	-19.54**
	(1.91)	(1.75)	(3.99)	(3.75)	(2.13)	(2.47)
observations	3,080	3,080	72	72	306	306
	0.626	0.627	0.743	0.553	0.802	0.720

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	Danandar	of intra-East Asian exports (excerpt)							
Variable	Machienry parts and components	Machinery final goods	All products						
(a) Year:1990	(1)	(2)	(3)						
Constant	-5.018	-14.440 ***	-5.358 *						
Distance (log)	-0.724 **	-0.623 **	-0.429 **						
GDPi (log)	0.378 ***	0.703 ***	0.424 ***						
GDPj (log)	-0.155	0.043	0.292 ***						
Income gap (log)	1.051 ***	0.823 ***	0.500 ***						
(b) Year: 2005	(1)'	(2)'	(3)'						
Constant	1.974	-6.774	-1.162						
Distance (log)	-0.823 ***	-0.792 ***	-0.690 ***						
GDPi (log)	0.351 ***	0.712 ***	0.495 ***						
GDPj (log)	0.329 ***	0.438 ***	0.456 ***						
Income gap (log)	0.341 ***	0.138	0.171 ***						
Number of observations	72	72	72						
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[New]								
Table 3	Sales and J	ourchases t	y Japanes	e machine	ery affiliates	s in East	Asia (excer	pt)
		B	y-destinat	ion sales	ratio/by-or	igin pur	chases rati	0
	Japan		Local		Third coun	tries (tot	al)	
		(Intra- firm)		(Intra- firm)		(Intra- firm)	East Asia	(Intra- firm)
Sales								
1992	17	(91)	66	(8)	17	(58)	9	(54)
1995	21	(91)	57	(20)	23	(55)	13	(60)
1998	44	(81)	39	(16)	17	(50)	15	(48)
2001	29	(79)	40	(14)	31	(53)	20	(52)
Purchas	ses							
1992	46	(84)	43	(2)	10	(59)	8	(81)
1995	29	(76)	43	(9)	28	(54)	19	(54)
1998	37	(62)	41	(7)	22	(49)	20	(50)
2001	38	(70)	40	(10)	22	(46)	20	(45)
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	-	Japanes	armia	es in Ea	st Asia	Japan	ese arnin	ates in C	.nina
Colored		1992	1995	1998	2001	1992	1995	1998	2001
Sales: sn	are (%)	27	20		24	01	20		
(1)	Japan	21	29	33	34	81	30	23	34
	-intra-firm	24	20	24	27	81	28	10	20
	-arm's length	3			~ ~	0			0
(ii)	Local	46	38	32	31	13	34	41	37
	-intra-firm	4		5	5	0		5	6
	-arm's length	42	35	28	26	13	32	36	32
(iii)	Other East Asia					5	31	32	22
	-intra-firm	9	12	14	12	5	28	27	17
	-arm's length	8	8	11	10	0	3	4	5
(i+ii+iii)	East Asia (total)	91	86	90	88	100	95	95	91
	-intra-firm	38	41	43	44	86	59	47	49
	-arm's length	53	46	47	44	14	36	48	42
Purchase	es: share (%)								
(i)	Japan	47	39	37	35	84	53	33	38
	-intra-firm	39	33	24	26	78	45	19	25
	-arm's length	7	5	13	9	5	8	14	13
(ii)	Local	37	34	36	35	16	19	34	37
	-intra-firm	1	5	2	3	6	2	3	4
	-arm's length	36	29	34	32	10	17	31	33
(iii)	Other East Asia					0	27	32	24
	-intra-firm	9	11	13	12	0	22	27	16
	-arm's length	6	13	13	16	0	5	5	8
(i+ii+iii)	East Asia (total)	98	98	99	99	100	99	99	99
	-intra-firm					85	69	49	45
008.01.16	-arm's length					15	30	50	54

Facts drawn from case studies and casual observations

- Fact 12: Many other elements of location advantages than low wages seem to be increasingly important in direct investment decisions in East Asia.
- e.g., WB investment climate study, JETRO, JBIC, JBCTIF.
 Fact 13: We have observed explosive proliferation of industrial estates in East Asia where substantial investment facilitation and basic infrastructure services are realized.
 e.g., intimate services, customs clearance, rental factory/floor.
- Fact 14: Agglomeration has begun to be formulated in East Asia, as a mixture of MNEs and local firms.

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 e.g. Shanghai-Jiangsu, Guangzhou, Samut Prakan, Eastern Seaboard, Penang, Shah Alam.

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- Link with aggromeration at the industry/macro level
 Location advantages (including policy environment); economies of scale in service link
- Proximity to facilitate arm's-length transactions



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New] able 8 Two-dimensional fragme	entation and improvement in investment clim	ate	
	Reduction in fixed costs to develop production/distribution networks	Reduction in service link costs connecting production blocks	Further cost reduction in production c per se in production blocks
Fragmention	Various policies to reduce investment costs	Various policies to overcome geographical distance and border effects	Varioous policies to strengthen locati advantages
along the distance axis	Examples : (i) improvement in subhilty: ramporency, and predictability of investment related policies, (iii) agreencies and industrial extates, (iiii) liberalization and development in financial services related to capital investment	Examples : (i) reduction removal of trate barriers such as tariff, (ii) trade facilitation including simplification and improved efficiency (in custom cleanance procedures, (iii) development of improve infrastructure, (iii) intercontentiation infrastructure, (iii) improved efficiency in financial services related to operation and capital movements, (iv) reduction in costs of continuinto thereue remote place bay facilitation of the movement of natural persons	Examples (c) establishment of educational occupational institutions of personand training to secure various by subba and clastic bluer valued laws without institutions, (iii) establishment of efficient international and domestic financial services, (iv) reduction in coo of instarture services such as electricity and other energy, industrial electricity and other energy, industrial estatis services, (v) (v) exhibitions of exponention chains, (v) is enablishment mule and intellectual property rights, (v various trade and interstend for the services in the second intellectual property rights, (v)
Fragmentation	Establishment of economic environment to reduce set-up costs of arm's length transactions	Development of institutional environment to reduce the cost of implementing arm's length transactions	Various policies to strengthen competitiveness of potential busines partners
along the disintegration axis	Examples : (i) establishemmt of economic system to allow co-existance of various business pattners as well as making various types of contracts. (ii) various policies to reduce costs of information gathering on potencial business pattners. (iii) securing fairness, stability, and efficiency in contracts. (iv) establishment of stable and effective institutions to secure intellectual property rights	Examples: (1) policies to reduce monitoring cost of business patterns, (ii) improvement in legal system and economic institutions to activate dispute settlement mechanism, (iii) policies to promote technical innovations in modulation to further facilitate outsourcing	Examples : (i) hosting and fostering various types of business paraters including foreign and indigitous firms (ii) strengthening supporting industrie (iii) various policies to promote the formation of agglomeration
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[Map1]

[New]

The large portion of the industrial estates in Thailand are within 100km diameter circle, which is within 2.5 hours by trucks. Tight JIT system is operated. About the same size as Pearl River Delta, extended Tokyo, extended Nagoya

area, and others.



[Map2]

[New] The distance between Bangkok and Singapore is about 1,500km; the lead time is 1-7 days. Both arm's length and intra-firm trade exist. Active trade in modules and large lots of parts.

[Map3]

[New]

1,500km are also the distance within which agglomerations/hubs are connected.

