

	Introduction
· · ·	Introduction Background: why the progress of Asian financial cooperation is unsatisfied? what is the key obstacle and precondition? where is the solution? Literature survey: papers on Asian financial cooperation, BBC regime for Asia, and research on Asian currency basket. Main focus: 1) exchange rate arrangement like BBC for Asian financial cooperation by providing a regional benchmark exchange rate, aim at regional surveillance, trade stabilization, promoting cross boarder investment and improving reserve management; 2) the possibility (fundamental) and feasibility of BBC regime in East Asia; 3) Asymmetry effect among ASEAN5+3 Objective: design a desirable regional exchange rate benchmark as of BBC Axiom taken: exchange rate stabilization has positive effect on trade and economy Scope: regional exchange rate regime among ASEAN5+3 and Hong Kong Methodology:
	data depended

Abstract

Asian financial cooperation began with CMI, deepened with Asian bond market initiatives and AMU/ACU proposals, but the progresses are less satisfied. Lack of a regional exchange rate arrangement is a key reason for it.

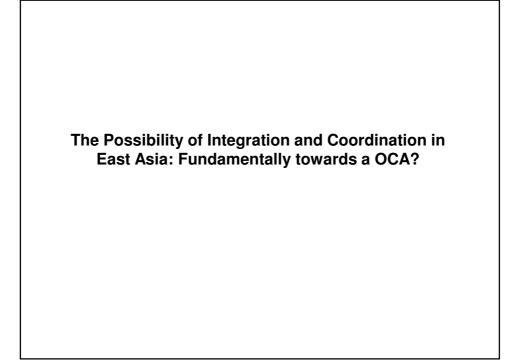
The economic integration of East Asia is based on trade mainly, but can not comparable to the level of Euro area. It might be early to talk about regional currency within current economic fundamental. However, a currency basket benchmark is a necessary precondition for conducting regional surveillance and policy coordination.

The report provides a dual baskets BBC regime design including the choice of peg currency, the choice of parity and the choice of band width and shows: 1) 10% band can be possible achieved, especially for nominal exchange rate coordination; 2) Real exchange rate analysis indicates that the importance of regional convergent requirements like the Maastricht Treaty in Asia.





	Cooperation in a Changing World
•	Exchange Rate Effect on Trade Volatility in ASEAN5+3 Typical case of the exchange rate fluctuation with the third currency (USD) disturb the trade among East Asia (compare with Euro15)
	Exchange rate volatility by international capital flow rather than fundamentals: the case of 1997 crisis and 2007 Philippines peso appreciation
•	Financial Structure and the Instability
	Financial structure has been improved obviously, but nothing to do with substantial change in financial fundamental: potential danger
•	Currency Mismatch and Uncertainty
	Heavy rely on external debt made export orientated economy expose to the uncertainty of outside world
•	Excessive Foreign Reserve and Risk Management
	Reserve accumulation made the risk management inevitable
	Embarrass status in global dollar standard in global imbalance: a future goal of Asiar cooperation as of common currency and common bond market
•	Conclusion
	Regional cooperation should pointed to regional exchange rate arrangement first, then regional financial market development and policy coordination, and finally aimed at regional currency and common market for the far future.





	Ratio of	f Export to ASI	EAN5+3	Ratio of Import from ASEAN5+3		
-	1980-89	1990-99	2000-08	1980-89	1990-99	2000-08
Japan	20.96	30.50	37.41	22.55	29.14	37.73
Korea	27.85	38.14	42.14	35.71	36.22	42.39
China	26.38	27.67	25.60	39.61	42.39	40.80
Sub Average	21.53	26.71	31.99	28.48	34.91	40.02
Indonesia	63.21	54.49	54.58	43.45	39.30	41.58
Malaysia	53.77	49.21	49.89	49.5	53.29	56.59
Philippines	36.15	35.37	50.09	35.79	45.21	50.17
Singapore	25.4	28.53	40.07	44.7	50.77	51.53
Thailand	37.45	40.72	45.15	45.41	47.34	50.91
Sub Average	43.25	40.08	46.13	44.57	48.76	51.40
Total Average	26.37	30.39	35.82	32.47	39.19	42.93
Av. Regional Vol. bn.	93.076	286.462	700.695	103.412	334.968	767.045

		Export to Euro15			Import from Euro15		
	1980-89	1990-99	2000-08	1980-89	1990-99	2000-08	
Germany	40.80	40.86	43.37	39.66	40.10	42.55	
France	38.72	43.68	50.11	40.84	44.71	56.80	
Italy	44.77	48.03	46.23	43.49	49.18	48.65	
Sub Average	41.06	43.24	45.72	40.96	43.51	48.22	
Austria	52.88	58.81	54.69	60.34	63.63	65.95	
Belgium- Luxembourg	63.98	64.41	63.53	61.65	62.81	60.89	
Cyprus	13.62	19.30	30.12	41.06	37.11	49.77	
Finland	24.30	31.75	31.32	28.98	33.10	35.83	
Greece	51.58	52.97	42.33	47.48	54.24	48.09	
Ireland	33.04	37.62	40.52	21.95	19.16	23.40	
Malta	51.15	53.60	33.90	53.75	56.05	55.24	
Netherlands	50.27	53.64	62.72	38.69	38.79	39.74	
Portugal	50.16	61.47	65.76	45.38	62.96	67.37	
Slovenia	n.a.	60.54	53.34	n.a.	62.28	64.94	
Spain	46.71	59.82	58.59	36.76	53.08	54.81	
Sub Average	51.27	55.76	57.64	45.94	50.87	50.68	
Total Average	44.60	47.93	50.70	42.86	46.49	49.26	

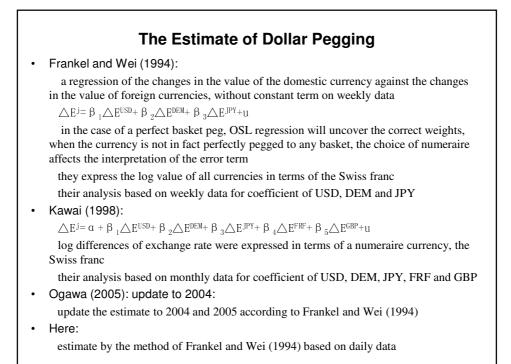
	T	rade Dependen	cy	Intra	regional Trade	ratio
	1980-89	1990-99	2000-08	1980-89	1990-99	2000-08
Japan	19.40	15.85	22.71	21.66	29.92	37.56
Korea	57.52	50.89	63.78	31.76	37.19	42.26
China	20.06	34.27	56.70	27.37	30.52	29.23
Sub Average	21.59	21.12	36.47	23.93	31.45	34.48
Indonesia	33.74	41.11	46.62	55.32	47.95	49.68
Malaysia	96.48	156.91	179.52	51.80	51.20	52.91
Philippines	38.71	64.93	87.79	35.94	41.00	50.13
Singapore	308.01	277.05	326.24	35.83	39.92	45.47
Thailand	49.44	76.60	117.19	41.92	44.26	47.98
Sub Average	68.59	101.74	130.43	43.91	44.46	48.57
Total Average	26.05	28.23	45.55	28.92	35.59	38.60

Trade Dependency and Intraregional Trade ratio among ASEAN5+3

	T	rade Dependend	y .	Intra	aregional Trade	ratio
	1980-89	1990-99	2000-08	1980-89	1990-99	2000-08
Germany	48.51	41.47	61.55	40.28	40.50	43.00
France	35.95	37.07	45.66	39.83	44.19	53.55
Italy	34.62	34.23	43.08	44.09	48.58	47.45
Sub Average	40.62	38.34	51.69	41.01	43.37	46.92
Austria	51.97	54.49	81.24	57.00	61.40	60.36
Belgium- Luxembourg	115.03	115.60	163.10	62.79	63.63	62.24
Cyprus	60.15	54.91	45.85	33.17	32.72	46.43
Finland	46.10	48.82	63.78	26.62	32.35	33.38
Greece	29.62	28.97	30.25	48.80	53.87	46.69
Ireland	92.44	109.60	94.40	27.55	29.80	33.91
Malta	80.55	138.67	120.42	52.84	55.12	46.79
Netherlands	88.13	83.92	118.09	44.57	46.53	51.83
Portugal	50.30	50.12	53.65	47.19	62.37	66.74
Slovenia	n.a.	86.92	107.87	n.a.	61.47	59.39
Spain	27.61	33.25	42.62	40.80	56.00	56.35
Sub Average	60.93	62.35	80.54	48.45	53.26	54.42
Total Average	46.24	45.10	61.15	43.72	47.22	50.16

		2001	2007			2001	2007
Japan	Region	3.69	2.45	Germany	Region	43.55	47.9
	US	36.48	40.94		US	11.50	13.2
	Euro	18.01	24.86		UK	11.19	5.0
	UK	17.35	11.17		5+3	10.46	6.4
Korea	Region	18.45	15.81	France	Region	39.36	49.3
	US	44.90	39.42		US	18.47	18.5
	Euro	14.53	25.86		UK	16.80	5.1
	UK	14.05	8.46		5+3	9.06	7.2
China	Region	13.72	18.44	Italy	Region	60.03	75.5
	US	32.30	37.42		US	8.32	7.9
	Euro	22.26	22.78		UK	15.71	3.2
	UK	21.36	12.09		5+3	6.22	4.9
ASEAN5	Region	27.12	23.00	Euro12	Region	55.33	62.8
	US	34.40	33.55		US	14.04	10.0
	Euro	10.55	22.31		UK	8.60	5.9
	UK	18.04	11.37		5+3	7.75	5.1
Regional Av.	Region	10.58	10.60	Regional Av.	Region	50.42	58.8
	US	36.45	38.90		US	13.45	11.8
	Euro	17.31	24.17		UK	11.42	5.3
	UK	17.65	11.05		5+3	8.44	5.7

				AN10		
	Share to total FDI inflow					
	2006	2007	2008	2006-2008		
EU-25	19.4	26.5	20.3	22.3		
ASEAN10	13.8	13.5	18.4	15.2		
Japan	18.6	12.1	12.8	14.2		
USA	6.2	9.1	5.9	7.2		
Other America	6.7	3.0	1.6	3.7		
Bermuda	2.4	4.0	2.9	3.2		
ROK	2.3	4.5	2.1	3.1		
Cayman	6.4	1.1	2.0	3.0		
Hong Kong	2.3	2.3	0.9	1.9		
China	1.8	1.8	1.9	1.8		
Sub-total	80.0	78.0	68.7	75.6		
Others	20.0	22.0	31.3	24.4		
Total inflow	100.0	100.0	100.0	100,0		
ASEAN10+3	38.88	34.20	36.09	36.21		
Total Amount, bn.	54.980	69.481	59.440	183.902		



CNY	USD	EUR	JPY	Adjust R
1999-2002	0.997527*** (0.001977)	-0.000114 (0.004534)	-0.001092 (0.001555)	0.997578
2003-2006	0.980440*** (0.005071)	-0.012308 (0.013786)	0.028877*** (0.005380)	0.985809
2007-2008	0.965773*** (0.011211)	0.043444* (0.016848)	0.004424 (0.009458)	0.972350
2009	0.981482 (0.005182)	0.002850 (0.009289)	0.006037 (0.004501)	0.997032
MYR	USD	EUR	JPY	Adjust R
1999-2002	1.002168*** (0.003510)	0.006767 (0.008046)	-0.002185 (0.002753)	0.992402
2003-2006	0.972522*** (0.008141)	0.005185 (0.022131)	0.022549*** (0.008637)	0.963638
2007-2008	0.889501*** (0.032285)	0.214569*** (0.048519)	-0.033596 (0.027239)	0.793126
2009	0.842034*** (0.044948)	0.306070*** (0.080563)	-0.108060*** (0.039038)	0.762657

SGD	USD	EUR	JPY	Adjust R ²
1999-2002	0.778092*** (0.014529)	0.104700*** (0.033306)	0.165980*** (0.011397)	0.866190
2003-2006	0.605170*** (0.012944)	0.173402*** (0.035188)	0.272791*** (0.013732)	0.872617
2007-2008	0.680305*** (0.024582)	0.413629*** (0.036943)	-0.031289 (0.020741)	0.829430
2009	0.683384*** (0.029788)	0.421354*** (0.053391)	-0.044829* (0.025871)	0.850771
THB	USD	EUR	JPY	Adjust R ²
1999-2002	0.780059*** (0.024136)	0.095567* (0.055328)	0.175320*** (0.018933)	0.705110
2003-2006	0.695215*** (0.017640)	0.144383** (0.047954)	0.276524*** (0.018714)	0.818689
2007-2008	0.915698*** (0.070559)	0.189128* (0.106038)	-0.028660 (0.059532)	0.455093
2009	0.831323*** (0.023323)	0.148497*** (0.041804)	0.029625 (0.020257)	0.928212

	Korea: Might Peg on Broader Basket									
KRW	USD	EUR	JPY	CNY	AUD	Adjust R ²				
1999-2002	0.856757*** (0.027868)	-0.044252 (0.063884)	0.182411*** (0.021861)			0.674690				
2003-2006	0.734230*** (0.027539)	0.117766 (0.074865)	0.260501*** (0.029217)			0.661013				
2007-2008	0.870877*** (0.110007)	0.731015*** (0.165322)	0.321179*** (0.092815)			0.296580				
	0.725717*** (0.113011)	0.283521 (0.189521)	-0.136489 (0.101909)	0.129580 (0.070164)	0.295904*** (0.066008)	0.324202				
2009	0.807726*** (0.110076)	0.574697** (0.197294)	0.307145*** (0.095602)			0.334371				
	0.671032*** (0.107812)	-0.063507 (0.244592)	-0.144351 (0.096682)	0.110505 (0.093266)	0.423965*** (0.092381)	0.406547				

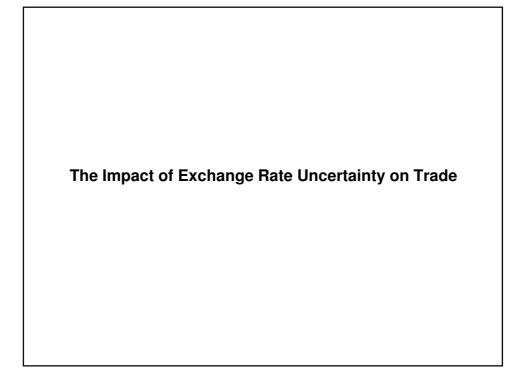
IDR	USD	EUR	JPY	Adjust R ²
1999-2002	0.116435 (0.101628)	0.019449 (0.232968)	0.044118 (0.079721)	0.001753
2003-2006	0.770516*** (0.037689)	0.108311 (0.102460)	0.192471*** (0.039986)	0.505197
2007-2008	0.797320*** (0.064565)	0.674210*** (0.097031)	0.022095 (0.054475)	0.538798
2009	0.877546*** (0.076615)	0.105431 (0.137321)	-0.060578 (0.066541)	0.535486
PHP	USD	EUR	JPY	Adjust R ²
1999-2002	0.886457*** (0.040265)	0.036871 (0.092302)	0.115733*** (0.031586)	0.486482
2003-2006	0.800315*** (0.027727)	0.003392 (0.075416)	0.067030** (0.029416)	0.622089
2007-2008	0.002855 (0.079886)	0.056270 (0.119936)	-0.105475 (0.067309)	0.007468
2009	-0.213369** (0.098520)	0.013611 (0.176061)	0.074806 (0.086355)	0.018395

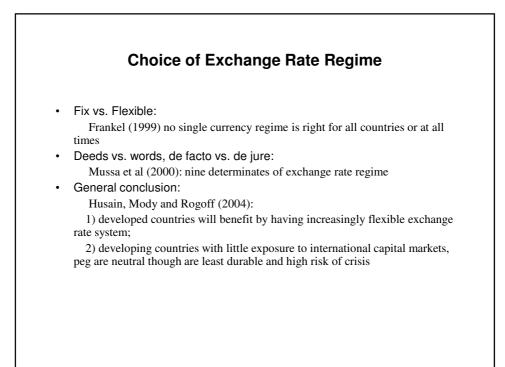
Asymmetry Effect of Exchange Rate Stabilization on Different Economies

- Difference on trade balance pattern between Japan and China will result in different attitude to regional exchange rate arrangement like OCA or BBC
- Japan is running surplus both in interregional and intraregional trade. JPY shift from free float to stabilization will help to keep both of those surplus.
- The exchange rate volatility of KRW is high, and Korea is running surplus both in interregional and intraregional trade in recent years. KRW shift from volatility to stabilization will help to keep both of those surplus.
- China run surplus in interregional trade but run deficit in intraregional trade. CNY shift from peg on USD to regional basket will make interregional trade surplus unstable while help to keep the intraregional trade deficit.
- ASEAN5 will benefit from regional exchange rate arrangement since their intraregional trade is dominated.

	Japan and Korea	China	ASEAN
Intraregional	Surplus can be stable	Deficit can be stable	Trade become stable
Interregional	Surplus become less fluctuate	Surplus shift from stable to fluctuate	Trade become more fluctuate
Overall	Benefit on both side	Loss because inter regional dependence on trade balance	Benefit because regional dependenc both in volume and balance

Is East Asia an OCA? Eichengreen and Bayoumi (1999) find East Asia satisfies the standard ٠ optimum currency area criteria, but conflict between exchange rate peg and domestic financial system would request the band at least 10%! Kawai and Motonishi (2005) believe that Japan, Korea, China Taiwan, Singapore, Hong Kong, Malaysia and Thailand are well integrated in • terms of trade, finance and macroeconomic activity, but ASEAN+3 is not an optimum currency area. Kim (2005) indicate there exist a non-stationary property and no cointegration relationship in most of the bilateral convergence in East Asia. Frankel and Rose (1998) about the endogeneity of OCA criteria: Some countries may appear to be poor candidates for OCA, but OCA entry for whatever reason, may provide a substantial impetus for trade expansion. This will in turn result in more highly correlated business cycle, and the country will more likely to satisfy the criteria to be a member of the OCA.



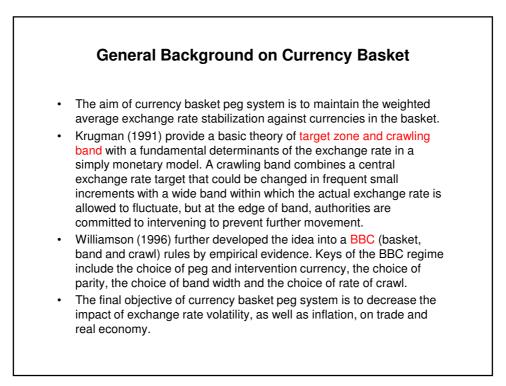


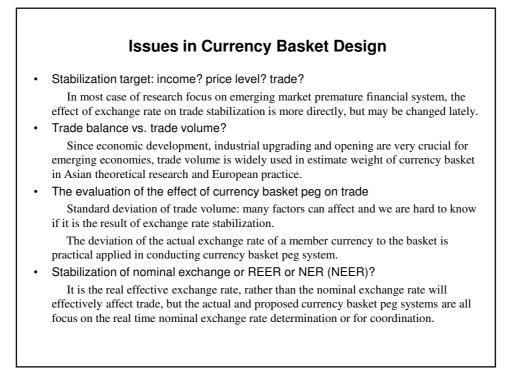
Exchange Rate Uncertainty and Trade: Empirical Research

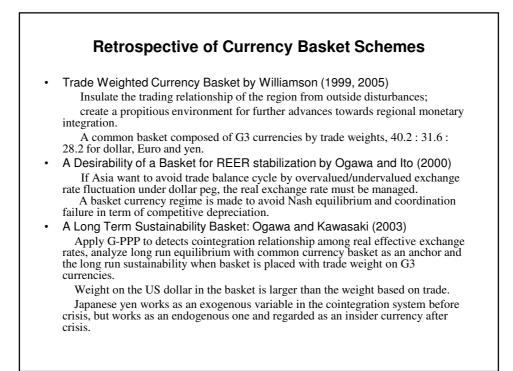
- Because of the complicated interaction among trade, exchange rate volatility and national income, there exist two opposite schools/opinions/empirical results on if exchange rate uncertainty has significant effect on trade volume
- Bahmani-Oskooe and Ltaifa (1992) found: 1) developed countries' exports are found to be less sensitive to exchange risk than that of developing countries; 2) developing countries who fixed their exchange rate to one major currency to be subject to less risk than the other developing countries.
- Bahmani-Oskooe and Hegerty (2008): the effect of exchange rate uncertainty on trade in short run is more apparently than in long run.
- Irandoust, Ekblad and Parmler (2006): different import/export elasticity is the key in the Marshall-Lerner condition, and determined the exchange rate effect on trade.
- Fang, Lai and Miller (2009): different import/export elasticity among emerging economies will also result in the asymmetric effects of exchange rate uncertainty on trade.

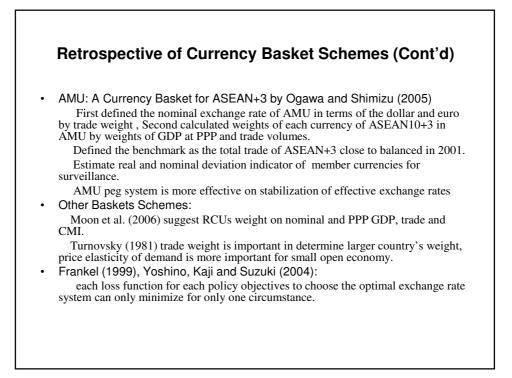
	e voiatili	ty (CV) a	nd Trade	Growt
	1996-2000	2001-2005	2006-2007	2008
Japanese yen	8.7653	6.6753	2.5076	5.1166
Korean won	20.7792	8.2707	1.9178	15.0489
Chinese yuan	0.1949	0.6665	2.7713	2.0056
Indonesia rupiah	52.606	8.0041	1.6216	8.6007
Malaysia ringgit	18.5794	0.2159	3.6464	4.4664
Philippines peso	20.6315	4.1254	6.5495	6.6148
Singapore dollar	8.3621	3.3794	3.3323	3.5773
Thailand baht	20.1027	4.6191	8.8601	4.7972
Total trade growth	4.2742	11.6209	15.5862	19.9940
Regional trade growth	4.8649	12.8881	13.2556	18.9612
Trade growth with US	3.9816	5.2091	9.7137	6.9538
Frade growth with Euro	3.7995	11.4393	16.1678	13.2821

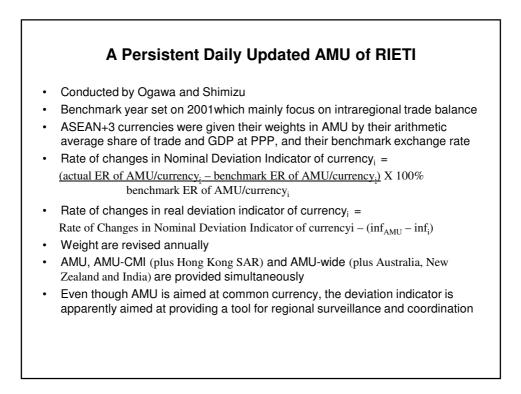
A Survey on Basket Peg Proposals

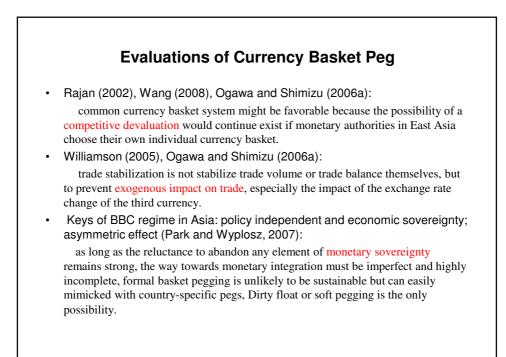


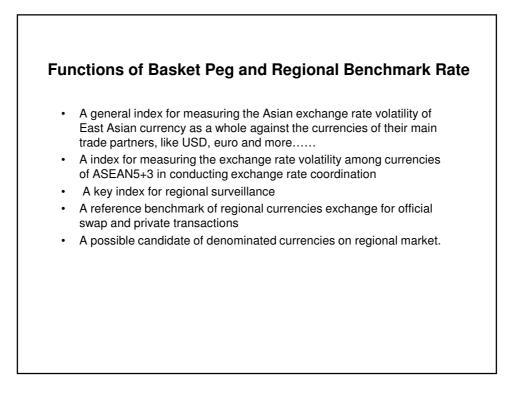


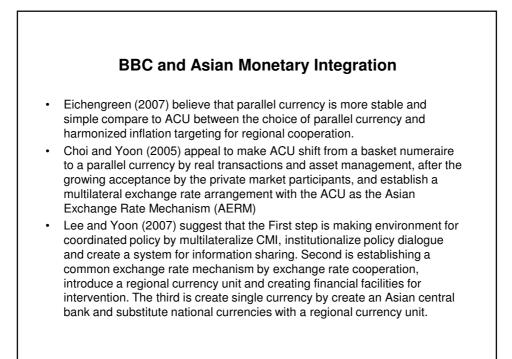


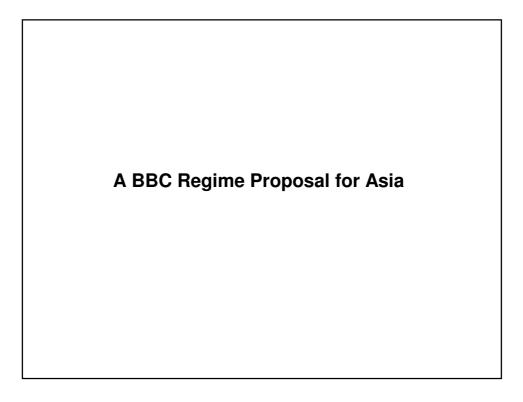


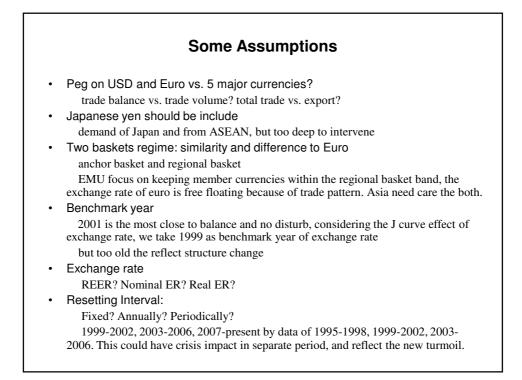


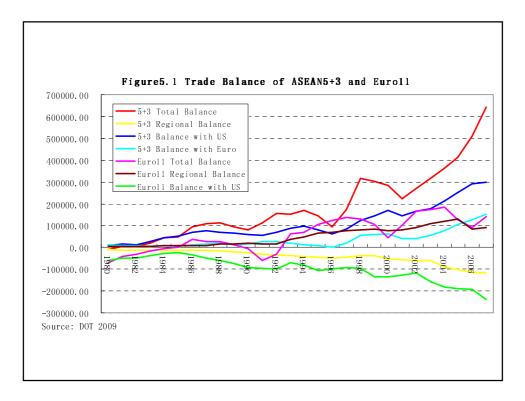




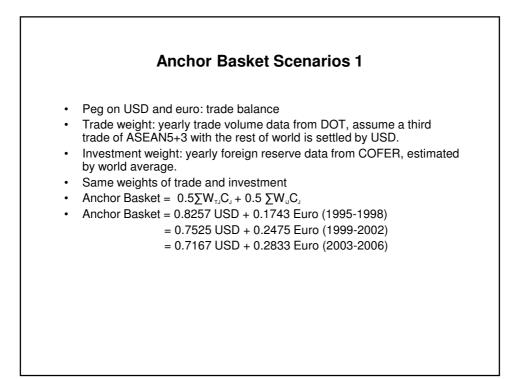


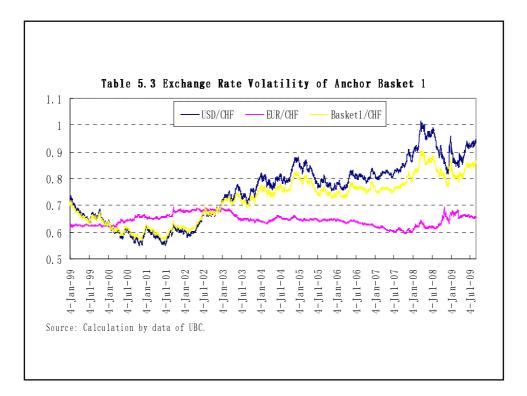


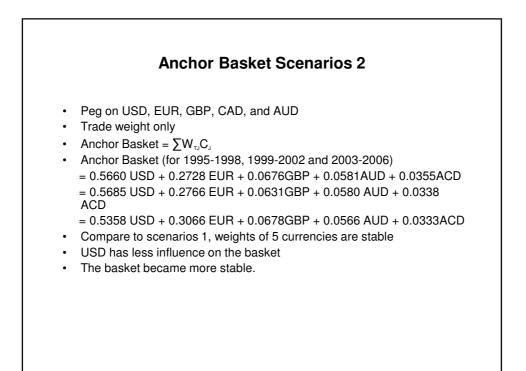




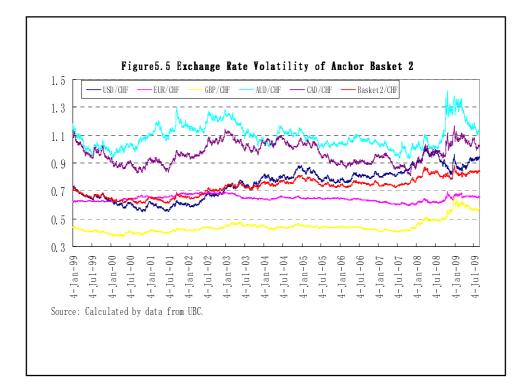
	Intra-re	gional Tra	de ratio	Trade l	Ratio with	the US	Trade I	Ratio with	Euro11		ROW	
	1980-89	1990-99	2000-09	1980-89	1990-99	2000-09	1980-89	1990-99	2000-09	1980-89	1990-99	2000-09
Japan	21.66	29.92	37.56	27.58	26.48	20.05	9.08	11.68	10.50	41.69	31.92	31.89
Korea	31.76	37.19	42.26	28.89	20.71	14.55	8.42	9.66	9.60	30.93	32.44	33.59
China	27.37	30.52	29.23	11.06	14.63	14.80	10.54	11.01	12.26	51.03	43.84	43.72
Sub Average	23.93	31.45	34.48	25.47	22.80	16.77	9.19	11.15	11.10	41.41	34.60	37.35
Indonesia	55.32	47.95	49.68	16.90	13.08	10.31	8.72	12.95	9.69	19.06	26.02	30.32
Malaysia	51.80	51.20	52.91	15.99	18.33	16.67	9.88	9.82	9.54	22.33	20.65	20.88
Philippines	35.94	41.00	50.13	27.82	26.12	19.62	10.00	10.17	11.09	26.23	22.71	19.16
Singapore	35.83	39.92	45.47	17.24	17.80	12.49	8.19	10.34	9.18	38.74	31.94	32.86
Thailand	41.92	44.26	47.98	15.04	15.69	12.47	13.14	11.21	9.11	29.89	28.84	30.44
Sub Average	43.91	44.46	48.57	17.51	17.53	13.77	9.48	10.74	9.47	29.09	27.27	28.19
Average	28.92	35.59	38.60	23.48	21.12	15.94	9.26	11.02	10.65	38.33	32.27	34.81





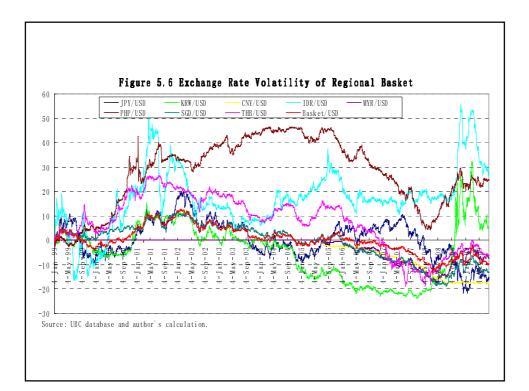


1995-1998		1999-2002		2003-2006	
country	ratio	country	ratio	country	ratio
United States	20.86	United States	20.28	United States	15.7
Euro Area	11.27	Euro Area	11.22	Euro Area	10.9
United Kingdom	2.79	United Kingdom	2.56	Australia	2.4
Australia	2.40	Australia	2.35	United Kingdom	2.0
Canada	1.46	Saudi Arabia	1.50	Saudi Arabia	1.8
Saudi Arabia	1.38	Canada	1.37	United Arab Emirates	1.5
United Arab Emirates	1.15	United Arab Emirates	1.29	India	1.3
Switzerland	0.87	India	0.93	Canada	1.1
India	0.85	Russia	0.73	Russia	1.1
Russia	0.76	Switzerland	0.72	Vietnam	0.7
Brazil	0.70	Mexico	0.62	Brazil	0.7
Panama	0.57	Vietnam	0.61	Iran, I.R. of	0.7
ASEAN5+3	45.87	ASEAN5+3	46.64	ASEAN5+3	49.1
Total	90.93	Total	90.82	Total	88.8

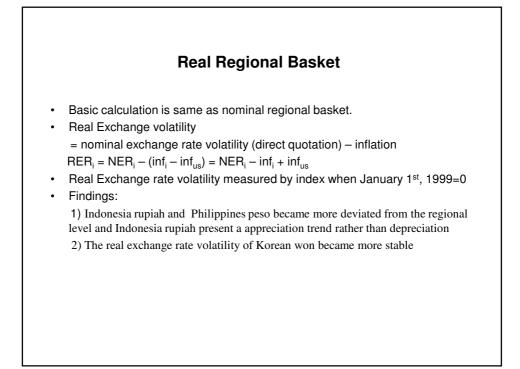


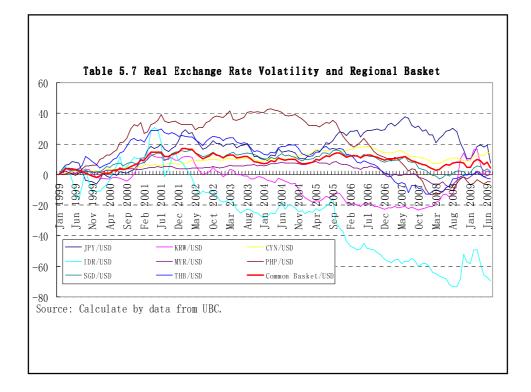
	Anchor Basket 1	Anchor Basket 2
Mean	0.721386	0.726581
Median	0.739963	0.738167
Maximum	0.909251	0.882871
Minimum	0.568754	0.607806
Std. Dev.	0.082439	0.064127

	Nominal Regional Basket	
 GDP weight: GI CMI contributio Weights for trace Common Baske Common Baske Common Baske 0.3433JPY + 0.0255PHP + 0 0.3354JPY + 0.0280PHP + 0 0.3102 JPY + 0.0249PHP + 0 Exchange rate Findings: most current basket, naturally Japan and C 	ade volume, DOT, year data P at PPP, WEO, year data p period data p eriod CMI are 0.6, 0.3 and 0.1. $t = 0.6 \sum W_{TJ}C_J + 0.3 \sum W_{GDPJ}C_J + 0.1 \sum W_{CMJ}C_J$ t 0.1096KRW + 0.2642CNY + 0.0572IDR + 0.0662MYR 0.775SGD + 0.0566THB (1995-1998) 0.1214KRW + 0.3044CNY + 0.0463IDR + 0.0588MYR 0.586SGD + 0.0471THB (1999-2002) 0.1306KRW + 0.3285CNY + 0.0423IDR + 0.0496MYR 0637SGD + 0.0502THB (2003-2006) 0 olatility calculated on daily data tries of ASEAN5+3 fluctuate quite close to the fluctuate of rexist a basis of exchange rate coordination ; trina have more influence on the common basket fluctuate; h outside impact and increase volatility, basket show obvious the common basket fluctuate interval in the common basket fluctuate interval in	+ + regional



Nom	ninal Ex	chang	e Rate	Stabiliz	ation E	Effect o	f Regio	onal Ba	sket
	JPY	KRW	CNY	IDR	MYR	PHP	SGD	THB	Basket
Mean	0.736250	-4.545223	-3.686379	17.05098	-2.737280	27.68299	-0.446178	7.315416	0.319133
Median	1.560410	-2.449616	-0.016914	16.53204	0.000000	30.81472	1.862792	8.386045	0.274785
Maximum	20.18725	32.39228	0.057991	55.54848	0.055269	46.41143	11.74343	26.50609	12.90205
Minimum	-21.70486	-23.78700	-17.72843	-16.50656	-17.56764	-2.682022	-18.76658	-19.00119	-12.35575
Std. Dev.	7.725814	11.41672	5.981147	12.23423	4.520136	14.13166	7.483031	10.99821	5.544914



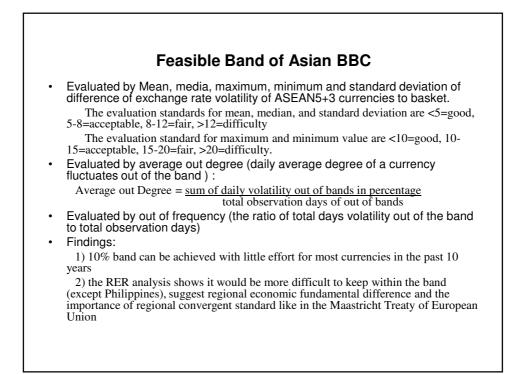


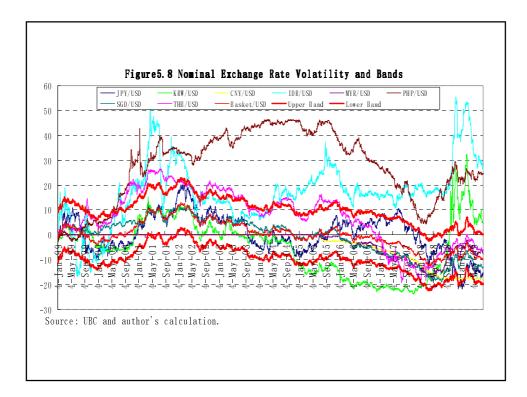
CNY 9.717984	IDR -25.58840	MYR 2.952542	PHP 19.86148	SGD 8.697701	THB 10.78658	Basket
	-25.58840	2.952542	19.86148	8.697701	10 78658	0.775010
					10.78038	8.775819
10.02956	-22.69448	3.918424	23.78168	10.02615	12.90216	9.599247
18.53937	30.87877	8.571035	43.20678	16.20908	29.51471	17.08108
0.000000	-73.49210	-8.027143	-13.45747	-2.722452	-12.73064	-1.760120
4.660505	26.67897	3.755827	17.44944	5.020109	11.62362	4.277248
	0.000000	0.000000 -73.49210	0.000000 -73.49210 -8.027143	0.000000 -73.49210 -8.027143 -13.45747	0.000000 -73.49210 -8.027143 -13.45747 -2.722452	0.000000 -73.49210 -8.027143 -13.45747 -2.722452 -12.73064

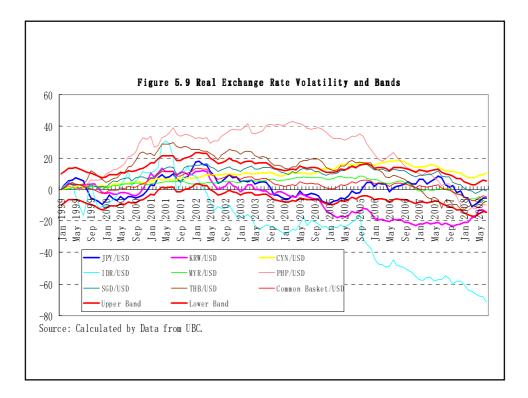
Real Exchange Rate Stabilization Effect of Regional Basket

Descriptive Statistic Result of Regional Baskets Volatility

	Nominal Basket	Real Basket
Mean	0.319133	3.000315
Median	0.274785	2.900856
Maximum	12.90205	13.27798
Minimum	-12.35575	-7.179639
Std. Dev.	5.544914	4.555985





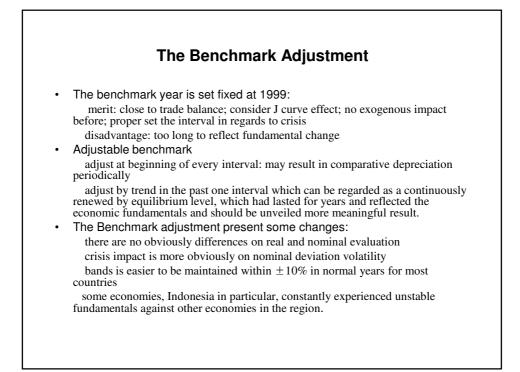


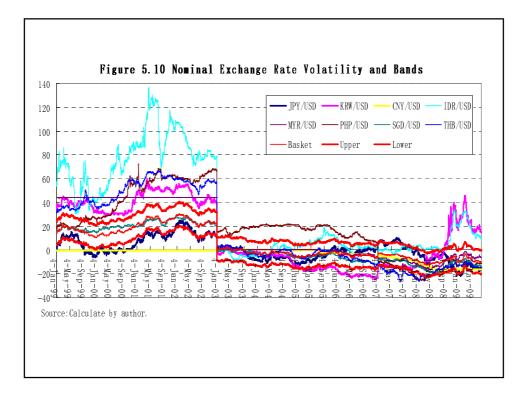
		_	_					_
Nom	inal Ex				lity and r and 1 diffic		Evalua	ation
1999-2009	JPY/USD	KRW/USD	CNY/USD	IDR/USD	MYR/USD	PHP/USD	SGD/USD	THB/USD
Mean	0.417117	-4.864357	-4.005512	16.73185	-3.056413	27.36385	-0.765311	6.996283
	good	good	good	Fair	good	difficulty	good	good
Median	0.592678	-4.225675	-3.541745	16.82225	-2.785383	29.13775	-0.160702	8.564637
	good	good	good	Fair	good	difficulty	good	good
Maximum	13.14680	35.53419	4.031125	60.33671	4.229456	48.21312	6.351978	19.93151
	acceptable	difficulty	good	difficulty	good	difficulty	good	Fair
Minimum	-12.65647	-20.12437	-14.43750	-18.61461	-12.89678	-6.389290	-8.340738	-14.76056
	acceptable	difficulty	acceptable	Fair	acceptable	good	good	acceptable
Std. Dev.	5.054890	10.21328	3.780222	13.33845	3.558869	12.97560	3.028258	6.602282
	Fair	difficulty	acceptable	difficulty	acceptable	difficulty	good	Fair
Overall	acceptable	Fair	good	Fair	good	difficulty	good	acceptable

	JPY/USD	KRW/USD	CNY/USD	IDR/USD	MYR/USD	PHP/USD	SGD/USD	THB/USD
Mean	8.633508	-13.6461	0.942165	-34.3642	-5.82328	11.08566	-0.07812	2.010762
	fair	difficulty	good	difficulty	acceptable	fair	good	good
Median	6.732773	-10.8857	1.921632	-32.4628	-6.52674	15.31076	0.279553	5.605345
	acceptable	fair	good	difficulty	acceptable	difficulty	good	acceptable
Maximum	26.63294	7.835606	10.19526	16.49214	2.676854	34.6222	4.551481	17.91684
	difficulty	good	acceptable	fair	good	difficulty	good	Fair
Minimum	-4.64853	-32.9725	-9.87774	-81.5794	-14.3097	-17.995	-7.43273	-21.997
	good	difficulty	good	difficulty	acceptable	fair	good	difficulty
Std. Dev.	8.078263	11.969	4.137002	26.73207	4.208025	15.45297	2.732697	10.08054
	fair	fair	good	difficulty	good	difficulty	good	fair
Overall	fair	fair	good	difficulty	acceptable	difficulty	good	fair

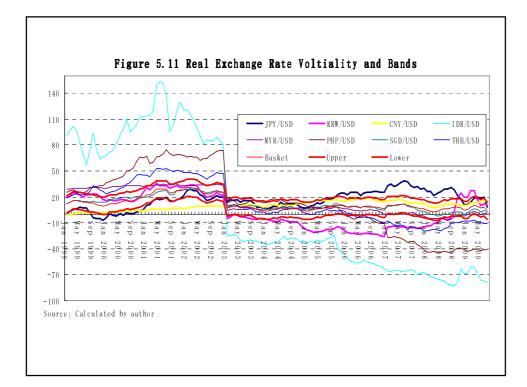
Real Exchange Rate Volatility and OCA Evaluation (2 good, 1 acceptable, 3 fair and 2 difficulty)

			_	ation t				
Nominal	JPY	KRW	CNY	IDR	MYR	РНР	SGD	тнв
Degree	1.2548	7.3019	1.4477	13.3942	1.2842	21.1329	0	3.119
Frequency	5.35%	37.66%	8.29	67.68%	4.75%	86.82%	0	38.42%
Real	JPY	KRW	CNY	IDR	MYR	PHP	SGD	THB
Degree	2.4619	9.3849	3.2062	29.5618	0	15.6292	0.0236	3.9777
Frequency	7.09%	38.58%	43.3%1	74.02%	0	66.14%	2.36%	56.69%



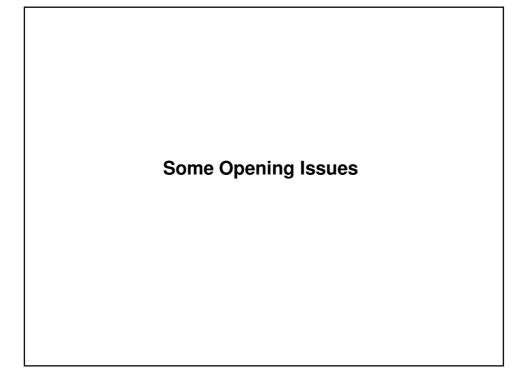


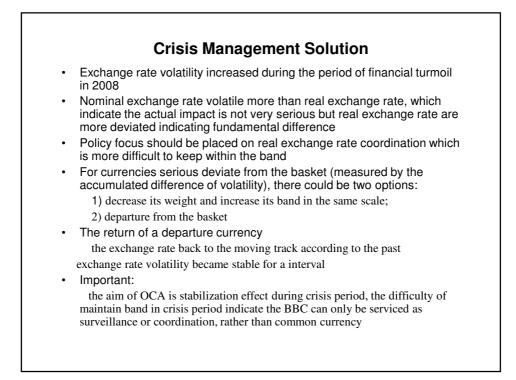
1999-2002	JPY	KRW	CNY	IDR	MYR	PHP	SGD	THB
Degree	3.8568	11.5965	10.8567	47.2764	13.7553	19.8575	0	19.9875
Frequency	69.69	100	100	100	100	82.65	0	100
2003-2006	JPY	KRW	CNY	IDR	MYR	PHP	SGD	THB
Degree	0	4.6353	0	3.0744	0	9.6633	0	0
Frequency	0	46.96	0	21.64	0	100	0	0
2007-2009	JPY	KRW	CNY	IDR	MYR	PHP	SGD	тнв
Degree	1.3263	15.5515	1.2497	10.0115	0	2.2982	0	4.3599
Frequency	23.27	47.76	6.47	64.25	0	33.59	0	41.60

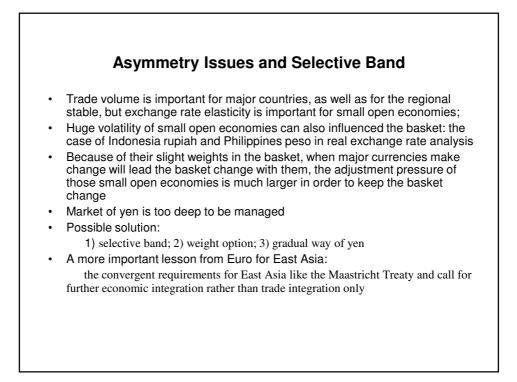


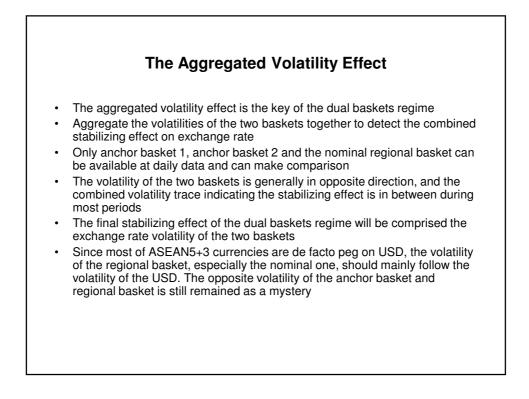
1999-2002	JPY	KRW	CNY	IDR	MYR	РНР	SGD	тнв
Degree	3.384	0.9351	6.4966	68.0030	6.2149	23.3243	0	10.0394
Frequency	56.25	6.25	87.50	100	58.33	97.92	0	85.42
2003-2006	JPY	KRW	CNY	IDR	MYR	PHP	SGD	тнв
Degree	5.8204	11.7271	0.4003	34.4974	0	3.6074	0	3.5222
Frequency	31.25	91.67	2.08	100	0	33.33	0	20.83
2007-2009	JPY	KRW	CNY	IDR	MYR	PHP	SGD	тнв
Degree	11.2106	8.9962	1.1370	68.0461	1.4691	35.4320	0	10.4884
Frequency	80.65	83.87	3.22	100	29.03	100	0	100

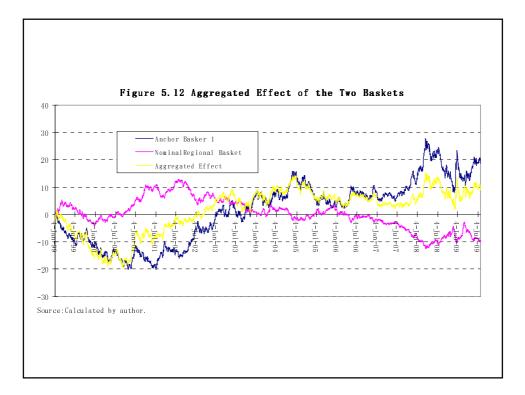
Nominal and Real Deviation Comparison (1999-2009) Nominal JPY KRW CNY IDR MYR РНР SGD тнв 1.2548 7.3019 1.4477 13.3942 1.2842 21.1329 0 3.119 Degree 3.606 10.955 10.4705 31.9243 13.7553 13.0025 0 16.6729 Degree* 4.75% Frequency 5.35% 37.66% 8.29 67.68% 86.82% 0 38.42% 30.24% 64.07% 39.36% 61.66% 37.78% 77.21% 0 47.95% Frequency* JPY KRW CNY IDR MYR PHP SGD THB Real 2.4619 0 0.0236 3.9777 Degree 9.3849 3.2062 29.5618 15.6292 5.0605 9.4144 Degree* 6.8498 10.3109 6.2362 55.3500 23.9612 0 43.3%1 74.02% 0 2.36% Frequency 7.09% 38.58% 66.14% 56.69% Frequency* 52.76% 57.48% 34.65% 100% 29.13% 74.02% 0% 64.56%

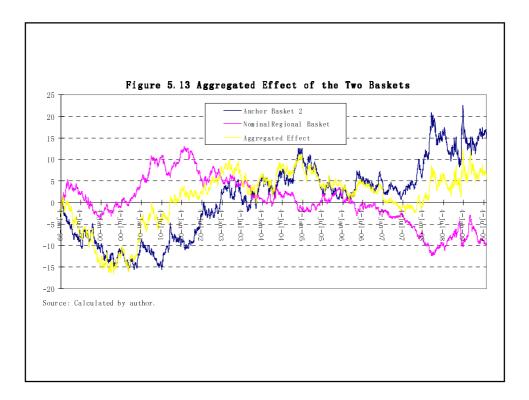












Statistical Descriptions of Aggregated volatility Effect								
	Anchor 1 (1)	Anchor 2 (2)	Nominal (3)	(1) + (3)	(2) + (3)			
Mean	1.202128	0.703282	0.319133	1.521261	1.02241			
Median	3.855394	2.388117	0.274785	4.157828	2.791109			
Maximum	27.74538	22.51264	12.90205	15.41745	12.49053			
Minimum	-20.0929	-15.6571	-12.3558	-19.6652	-16.7083			
Std. Dev.	11.50523	8.827394	5.544914	8.175549	6.40011			

