

# **The Trans -Pacific Partnership Agreement: an Opportunity for Viet Nam to reduce or exit the Dependence of China Economy**

**by Scott H. Murray & Tai H. Pham  
Discipline of Mathematics & Statistics  
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**UNIVERSITY OF  
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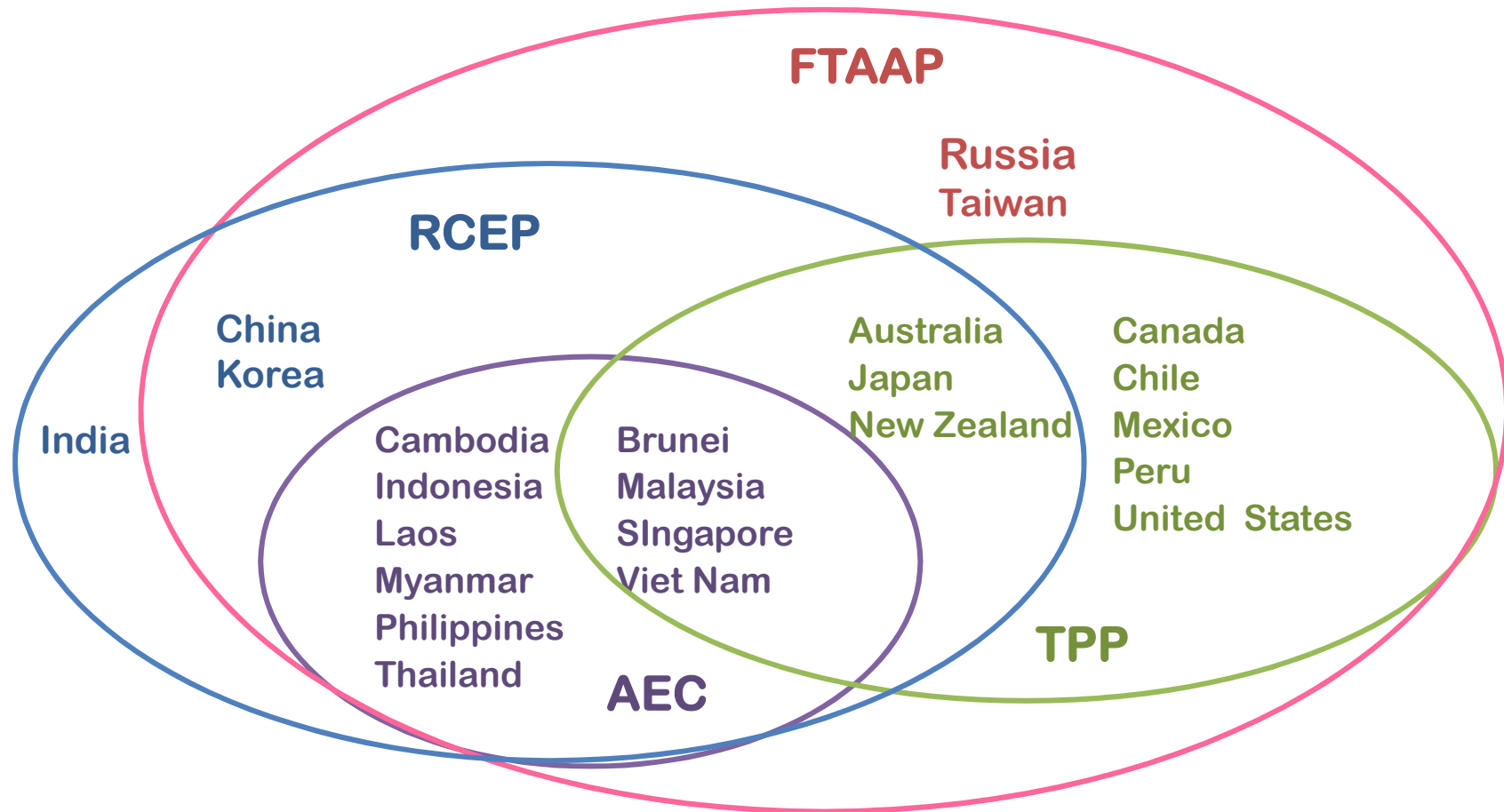
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# **1. Problem statement**

- **The ASEAN Economic Community (AEC) by 2015**
- **The Trans-Pacific Partnership (TPP) by 2014.**
- **The Scenarios**

**The flagship FTAs: AEC, TPP,  
RCEP & FTAAP ?**

## 2 The parties of AFTA, TPP, RCEP & FTAAP



# TPP



# RCEP



# FTAAP





### **3.US' Trans-Pacific Partnership Agreement vision**

- **Strengthen ties three continents: America, Asia, and Oceania**
- **Seek to become the basis and the means to establish the Free Trade Area of the Asia Pacific (FTAAP)**
- **The baseline: the U.S existing trade and investment agreements**
- **Create mutuality of benefit among participants**
- **Ensure the third parties do not take advantage of the agreement**
- **Apply “yarn-forward” style rules of origin rather than**

## **4. China's Free Trade Agreement of the Asia Pacific vision**

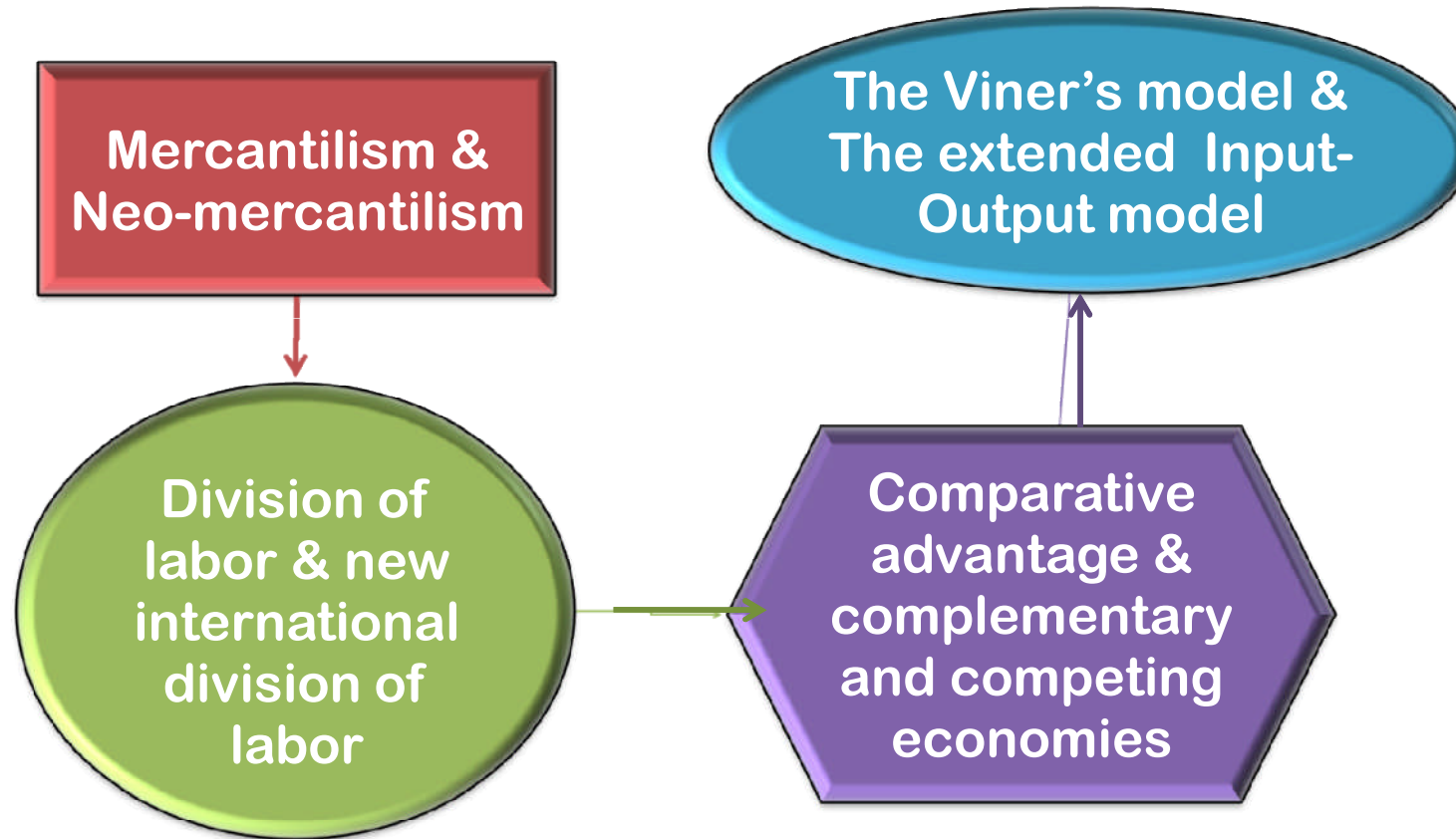
- **Obtain step by step the ambitiousness for the “New Silk Road” and “New Maritime Silk Road” through bilateral negotiation, SCO, ASEAN, BRICS & APEC.**
- **Compete with the U.S**

# China's New silk road vision



**FTA: Beneficial to poor countries ?**

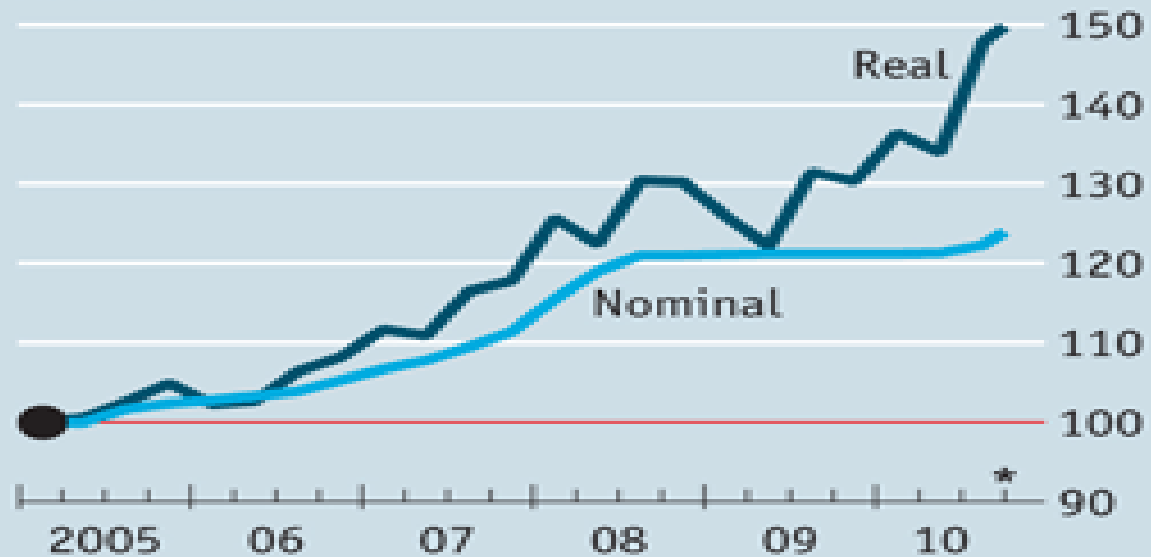
## 5. Theories of international trade



## 5.1 China & keeping the exchange rate weak

### Reality check

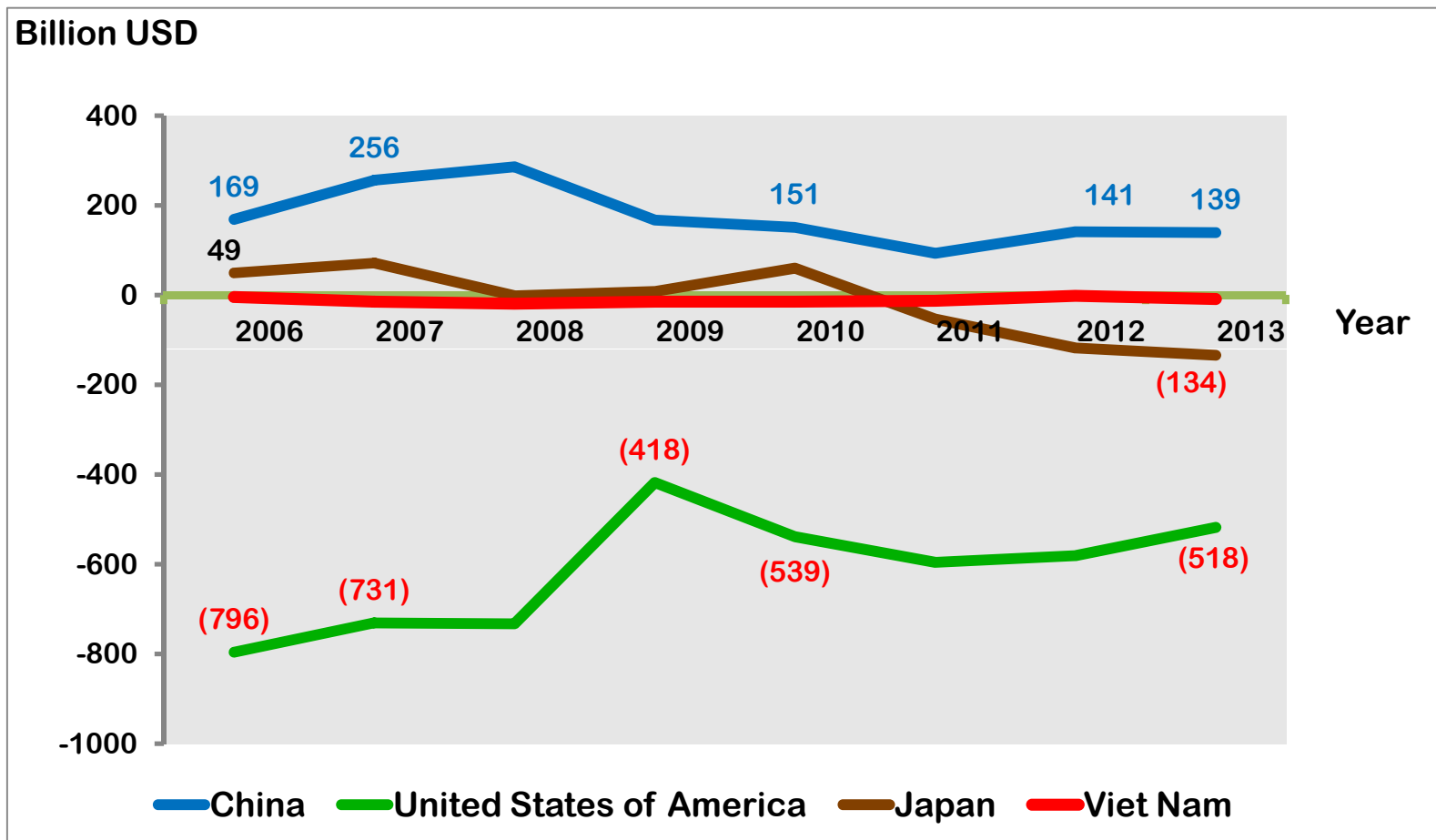
China's yuan-dollar exchange rates  
Q1 2005=100



Sources: *The Economist*; Bureau of Labour Statistics; CEIC; Thomson Reuters

\* November 2nd

## 5.2 China & encouraging exports and discouraging imports



## 5.3 China & New International Division of labor





## 5.3 China & Viet Nam: competing economies

### Trade indicators

Revealed symmetric comparative advantage index



Intra-industry trade index



Trade specialization index



Bilateral trade intensity index



Trade complementarity index

# Revealed symmetric comparative advantage index (RSCA)

Revealed comparative advantage (RCA)

$$= \frac{X_{iw}^k}{X_{iw}} \div \frac{X_{jw}^k}{X_{jw}}$$

RSCA

$$= \frac{(RCA - 1)}{(RCA + 1)}$$

HS code		RSCA of Vietnam, relative to		RSCA of China, relative to	
		China	Global	VN	Global
01-05	Animal & Animal Products	0.8	0.5	(0.8)	(0.4)
06-15	Vegetable Products	0.8	0.5	(0.8)	(0.5)
16-24	Foodstuffs	0.3	(0.1)	(0.3)	(0.4)
25-27	Mineral Products	0.7	(0.1)	(0.7)	(0.8)
28-38	Chemicals & Allied Industries	(0.5)	(0.7)	0.5	(0.3)
39-40	Plastics / Rubbers	0.2	0.1	(0.2)	(0.1)
41-43	Raw Hides, Skins, Leather, & Furs	0.0	0.4	(0.0)	0.4
44-49	Wood & Wood Products	0.1	(0.1)	(0.1)	(0.2)
50-63	Textiles	0.1	0.6	(0.1)	0.5
64-67	Footwear / Headgear	0.5	0.8	(0.5)	0.6
68-71	Stone / Glass	(0.1)	(0.2)	0.1	(0.1)
72-83	Metals	(0.4)	(0.4)	0.4	0.0
84-85	Machinery / Electrical	(0.4)	(0.1)	0.4	0.3
86-89	Transportation	(0.5)	(0.7)	0.5	(0.3)
90-97	Miscellaneous	(0.2)	0.0	0.2	0.3
98-99	Commodities not elsewhere specified	0.6	(0.6)	(0.6)	(0.9)

**Explanatory notes**

Maximum value	1
Minimum value	-1
Critical point	Comparative advantage = >0

HS code - top ten		RSCA of Vietnam, relative to		RSCA of China, relative to	
		China	Global	VN	Global
'85	Electrical, electronic equipment	(0.2)	0.1	0.2	0.3
'27	Mineral fuels, oils, distillation products, etc	0.8	(0.1)	(0.8)	(0.8)
'64	Footwear, gaiters and the like, parts thereof	0.5	0.8	(0.5)	0.6
'62	Articles of apparel, accessories, not knit or crochet	0.4	0.7	(0.4)	0.5
'61	Articles of apparel, accessories, knit or crochet	0.2	0.7	(0.2)	0.6
'84	Machinery, nuclear reactors, boilers, etc	(0.6)	(0.4)	0.6	0.2
'03	Fish, crustaceans, molluscs, aquatic invertebrates nes	0.8	0.8	(0.8)	(0.0)
'94	Furniture, lighting, signs, prefabricated buildings	0.1	0.6	(0.1)	0.5
'09	Coffee, tea, mate and spices	0.9	0.9	(0.9)	(0.4)
'10	Cereals	1.0	0.7	(1.0)	(0.8)

**Explanatory notes**

Maximum value 1  
 Minimum value -1  
 Critical point Comparative advantage = >0

## 5.4 TPP & Viet Nam: complementary economies

### Trade indicators

Revealed symmetric comparative advantage index

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graph TD; A[Revealed symmetric comparative advantage index] --> B[Intra-industry trade index]; B --> C[Trade specialization index]; C --> D[Bilateral trade intensity index]; D --> E[Trade complementarity index];
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Intra-industry trade index

Trade specialization index

Bilateral trade intensity index

Trade complementarity index

HS code		RSCA of Vietnam, relative to		RSCA of TPP, relative to	
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25-27	Mineral Products	(0.0)	(0.1)	0.0	(0.1)
28-38	Chemicals & Allied Industries	(0.7)	(0.7)	0.7	(0.1)
39-40	Plastics / Rubbers	0.1	0.1	(0.1)	(0.0)
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68-71	Stone / Glass	(0.2)	(0.2)	0.2	0.0
72-83	Metals	(0.3)	(0.4)	0.3	(0.0)
84-85	Machinery / Electrical	(0.2)	(0.1)	0.2	0.1
86-89	Transportation	(0.8)	(0.7)	0.8	0.2
90-97	Miscellaneous	0.0	0.0	(0.0)	0.0
98-99	Commodities not elsewhere specified	(0.7)	(0.6)	0.7	0.3

Explanatory notes

Maximum value	1
Minimum value	-1
Critical point	Comparative advantage = >0

HS code - top ten		RSCA of Vietnam, relative to		RSCA of TPP, relative to	
		TPP	Global	VN	Global
'85	Electrical, electronic equipment	0.0	0.1	0.1	0.0
'27	Mineral fuels, oils, distillation products, etc	0.1	(0.1)	(0.2)	0.1
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'61	Articles of apparel, accessories, knit or crochet	0.9	0.7	(0.7)	0.9
'84	Machinery, nuclear reactors, boilers, etc	(0.4)	(0.4)	0.1	(0.4)
'03	Fish, crustaceans, molluscs, aquatic invertebrates nes	0.8	0.8	(0.1)	0.8
'94	Furniture, lighting, signs, prefabricated buildings	0.7	0.6	(0.3)	0.7
'09	Coffee, tea, mate and spices	1.0	0.9	(0.5)	1.0
'10	Cereals	0.6	0.7	0.2	0.6

**Explanatory notes**

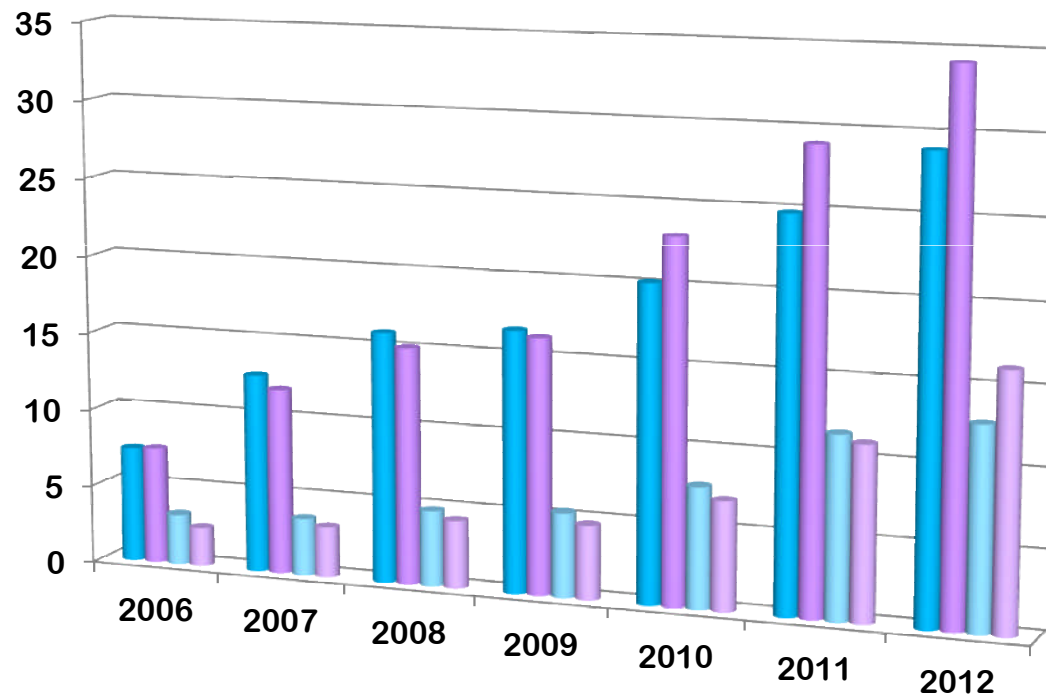
Maximum value	1
Minimum value	-1
Critical point	Comparative advantage = >0

# The Viet Nam's the Extended Input-Output Table



# The skew of value of exports and imports between Viet Nam and China

Billion USD



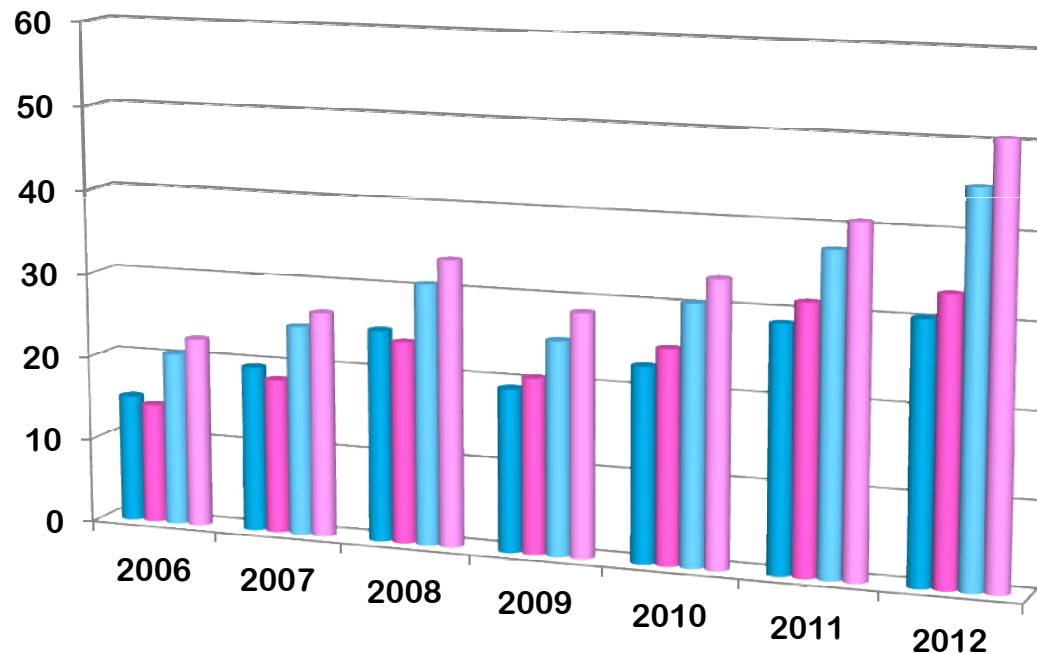
China\_export > VN\_import: 8,1%

VN\_export > China\_import: 0,4%

- Viet Nam\_imports\_China
- China\_exports\_Viet Nam
- Viet Nam\_exports\_China
- China\_imports\_Viet Nam

# The skew of value of exports and imports between TPP and Viet Nam

Billion USD



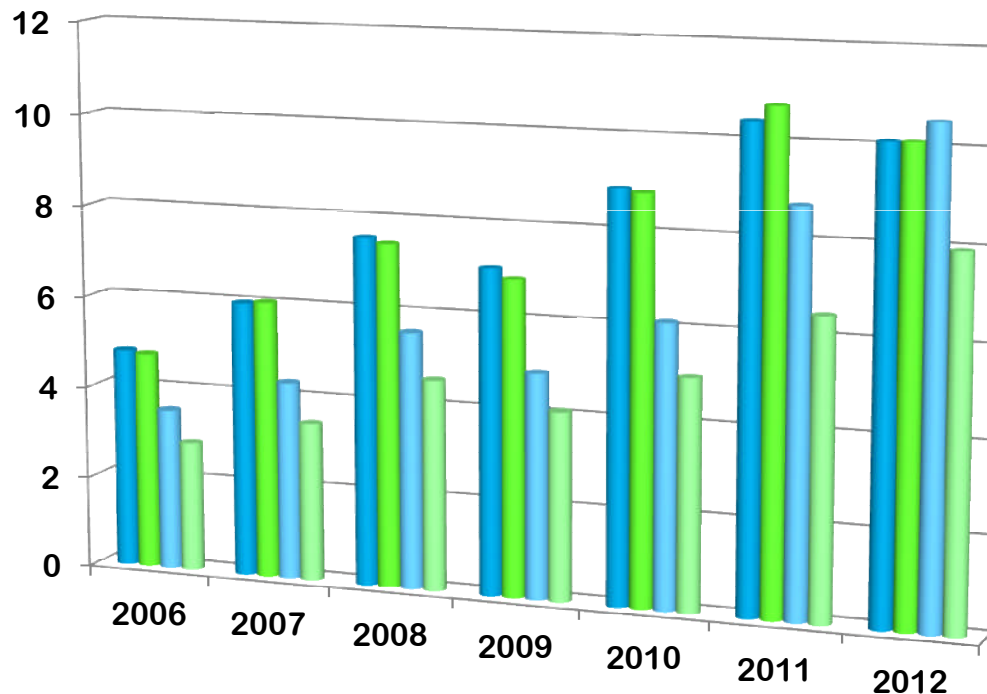
TPP\_export > VN\_import: 3,6%

TPP\_import > VN\_export: 10,2%

- Viet Nam\_imports\_TPP
- TPP\_exports\_Viet Nam
- Viet Nam\_exports\_TPP
- TPP\_imports\_Viet Nam

# The skew of value of exports and imports between Asean\* and Viet Nam

Billion USD



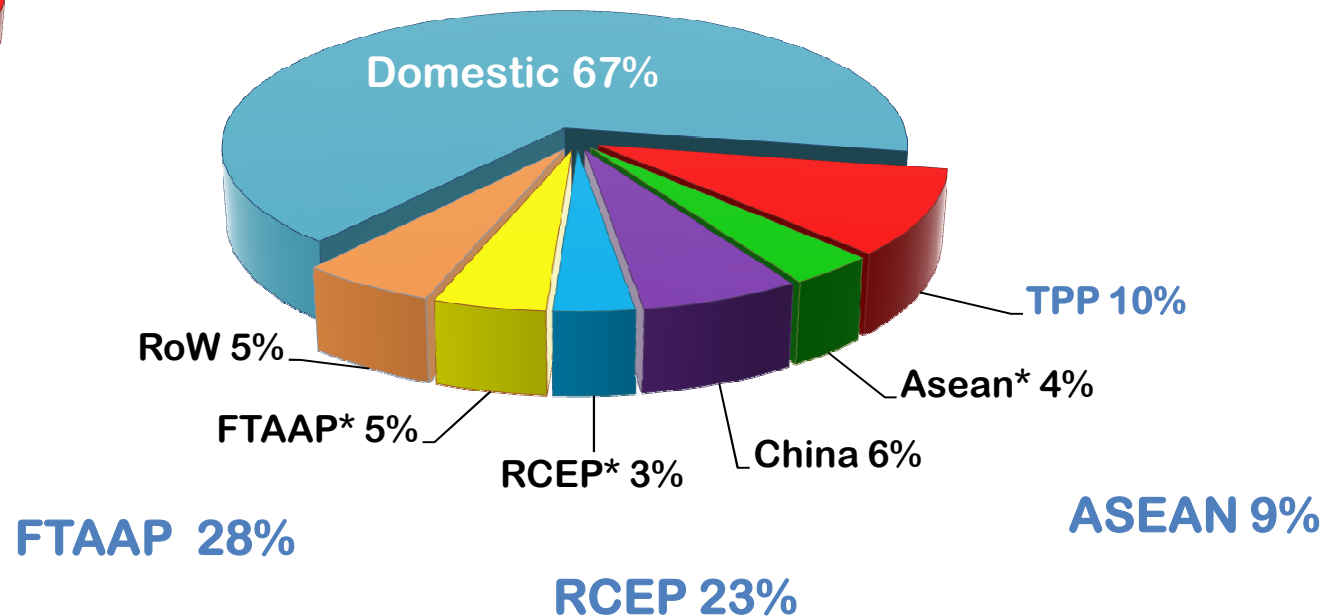
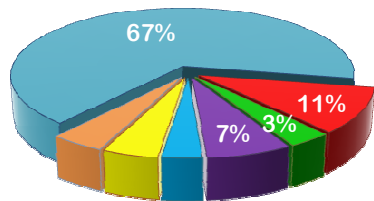
VN\_imports > Asean\*\_exports: 0,1%

VN\_exports > Asean\*\_imports: 26,8%

- Viet Nam\_imports\_Asean\*
- Asean\*\_exports\_Viet Nam
- Viet Nam\_exports\_Asean\*
- Asean\*\_imports\_Viet Nam

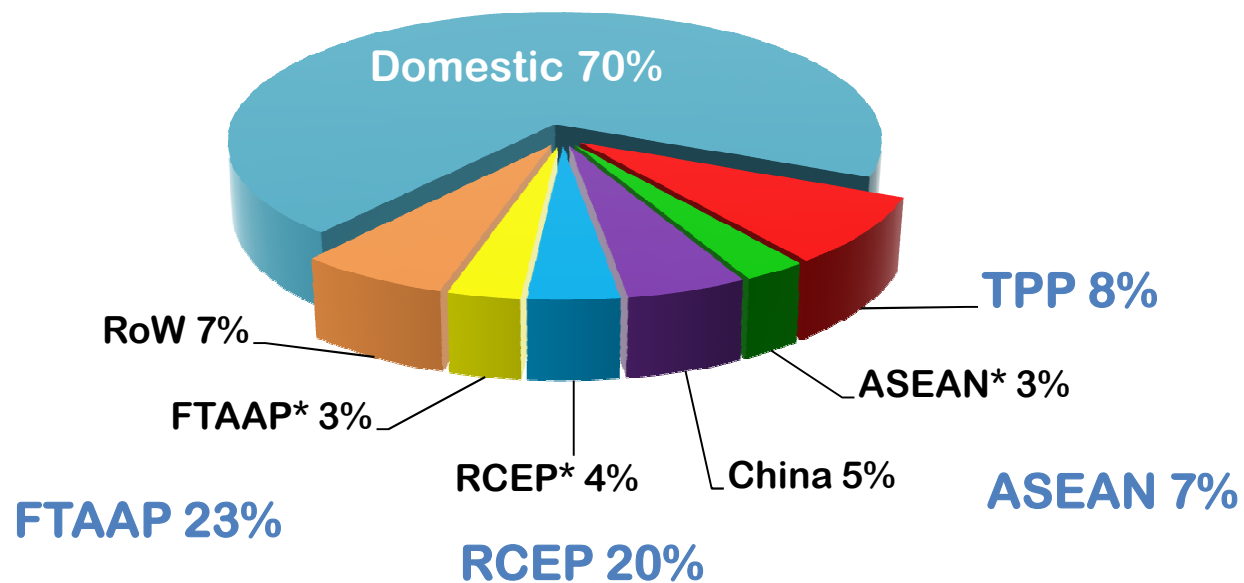
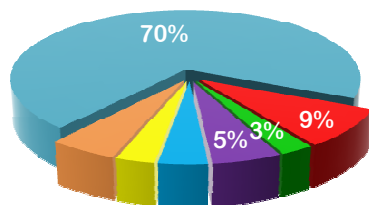
# 6. The Viet Nam's the Extended Input-Output Table

## Intermediate use



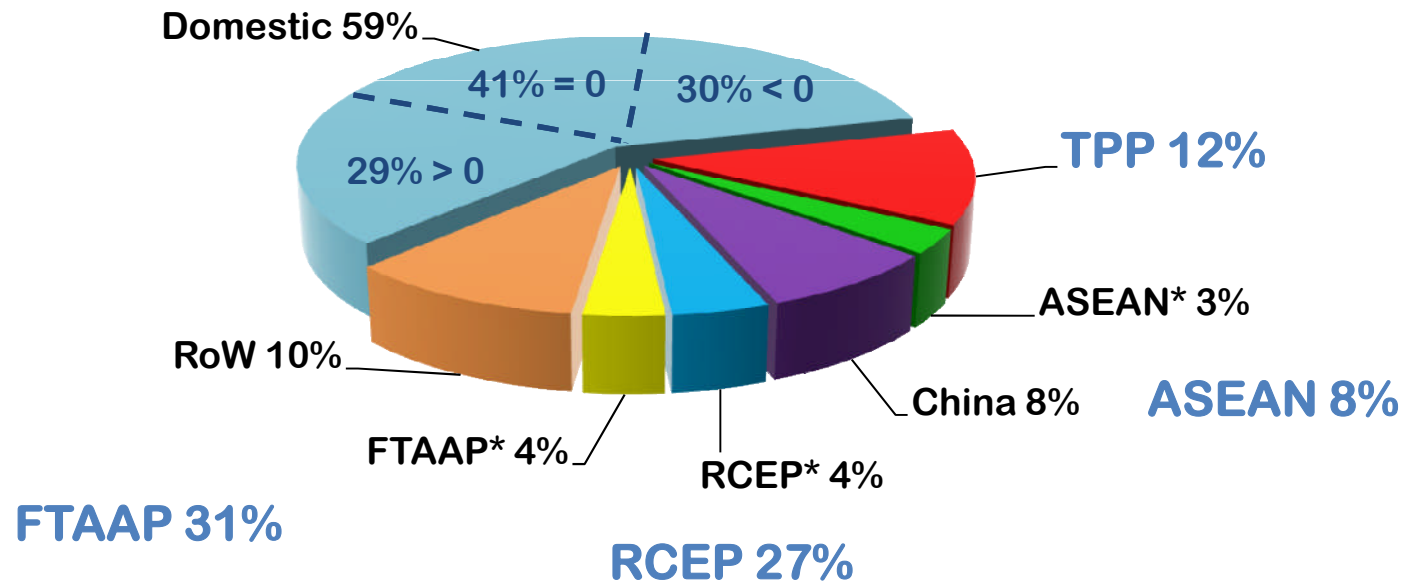
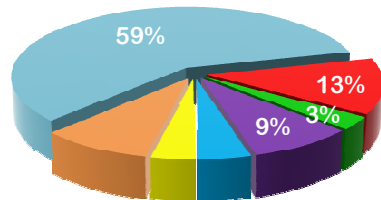
## 6. The Viet Nam's the Extended Input-Output Table

### Consumption use



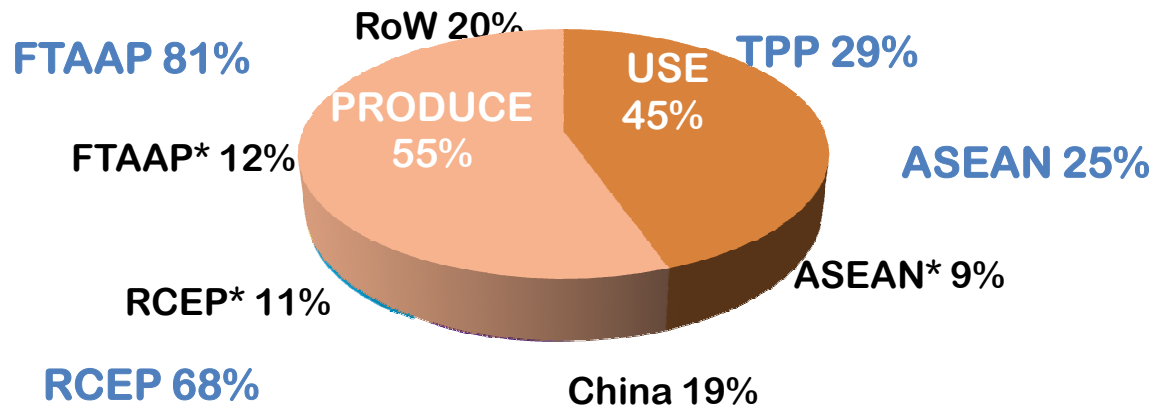
# 6. The Viet Nam's the Extended Input-Output Table

## Investment use

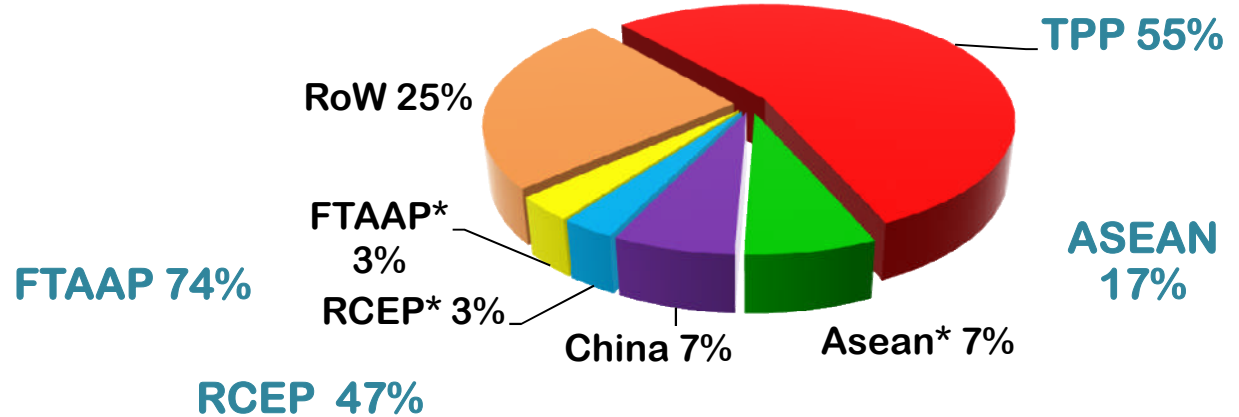


# 6. The Viet Nam's the Extended Input-Output Table

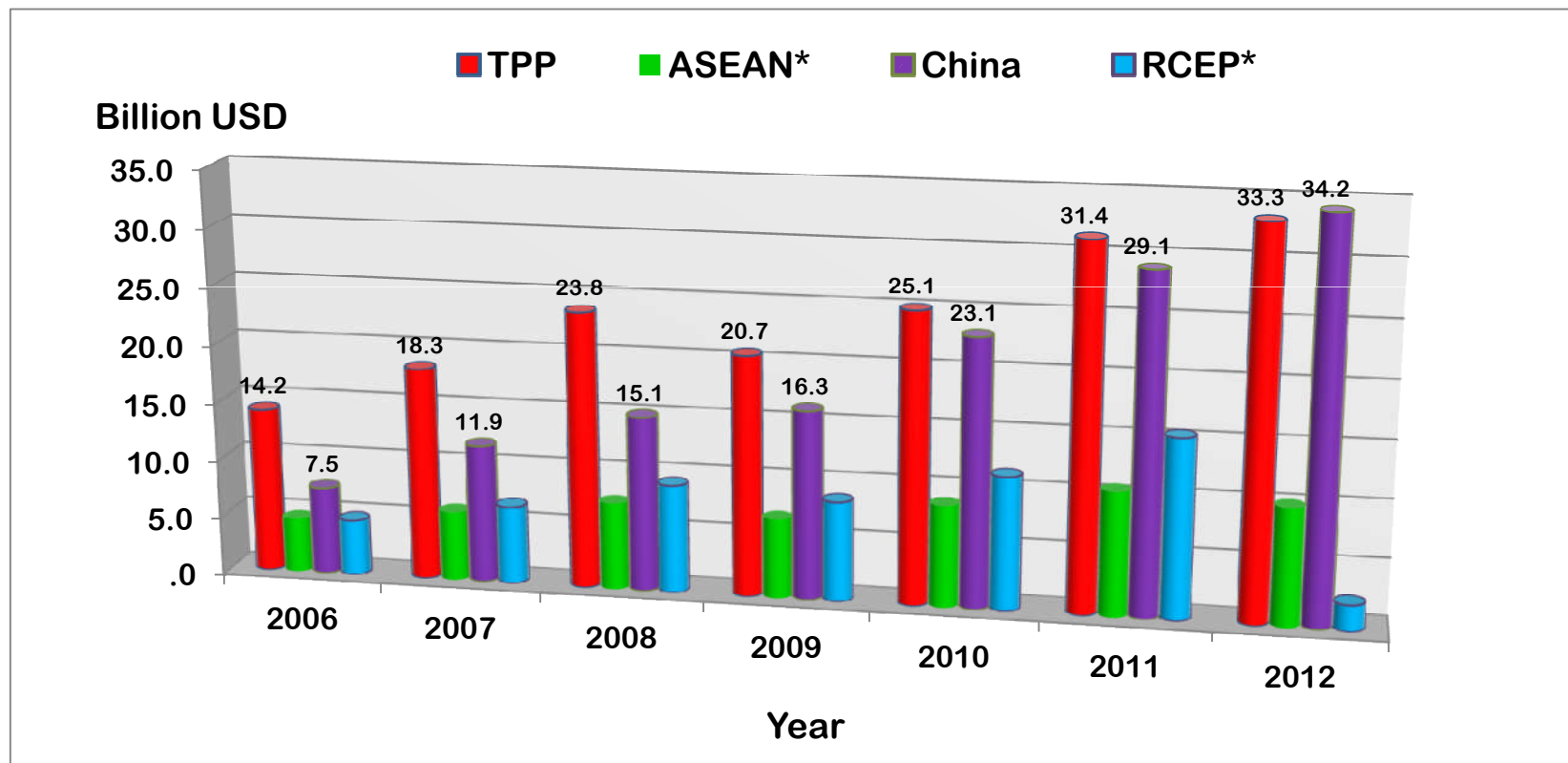
## IMPORT



## EXPORT

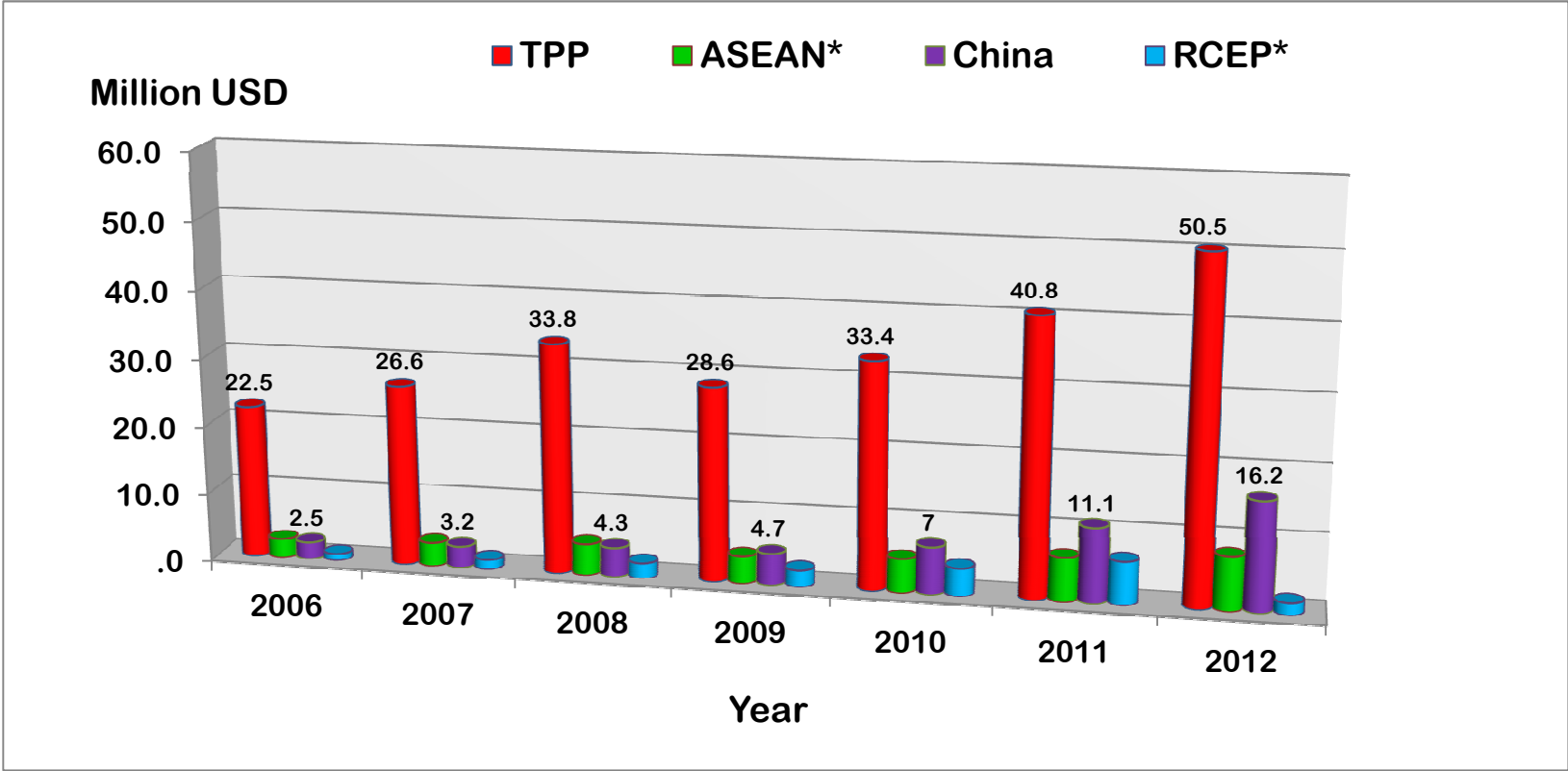


## 6.1 VN's imports from the blocs





# 6.2 VN's exports to the blocs



## 7. Scenarios

The scenarios exit the dependence of China economy



# 7.1 The Extended Input-Output Table

Unit: Billion VND

	Intermediate used	Final use				Total
		Consumption		Investment	Export	
		HHs.	Govt.			
<b>Domestic</b>	<b>1,171,126</b>	<b>552,607</b>	<b>76,626</b>	<b>294,203</b>	<b>757,554</b>	<b>2,852,116</b>
TPP	174,174	73,383	724	59,563		307,844
Asean*	62,671	24,118	239	15,155		102,183
China	114,097	45,628	470	40,394		200,589
RCEP*	57,560	34,727	264	21,433		113,984
FTAAP*	80,441	27,615	297	17,940		126,293
RoW	97,805	57,489	486	52,317		208,097
<b>Total Import</b>	<b>586,748</b>	<b>262,960</b>	<b>2,480</b>	<b>206,802</b>		<b>1,058,990</b>
<b>Total Intermediate</b>	<b>1,757,874</b>					
<b>Value added</b>	<b>1,094,242</b>					
<b>Total</b>	<b>2,852,116</b>	<b>815,567</b>	<b>79,106</b>	<b>501,005</b>		

## 7.2 The scenario 1

Unit: Billion VND

	Intermediate used	Final use				Total
		Consumption		Investment	Export	
		HHs.	Govt.			
<b>Domestic</b>	<b>1,171,126</b>	<b>552,607</b>	<b>76,626</b>	<b>294,203</b>	<b>707,225</b>	<b>2,801,787</b>
TPP	174,174	73,383	724	59,563		307,844
Asean*	62,671	24,118	239	15,155		102,183
<b>TPP + APEC</b>	<b>119,802</b>	<b>47,909</b>	<b>494</b>	<b>42,414</b>		<b>210,619</b>
RCEP*	57,560	34,727	264	21,433		113,984
FTAAP*	80,441	27,615	297	17,940		126,293
RoW	97,805	57,489	486	52,317		208,097
<b>Total Import</b>	<b>592,453</b>	<b>265,241</b>	<b>2,504</b>	<b>208,822</b>		<b>1,069,020</b>
<b>Total Intermediate</b>	<b>1,763,579</b>					
<b>Value added</b>	<b>1,038,208</b>					
<b>Total</b>	<b>2,801,787</b>	<b>817,848</b>	<b>79,130</b>	<b>503,025</b>		

**GDP - 5,1%**

## 7.3 The scenario 2

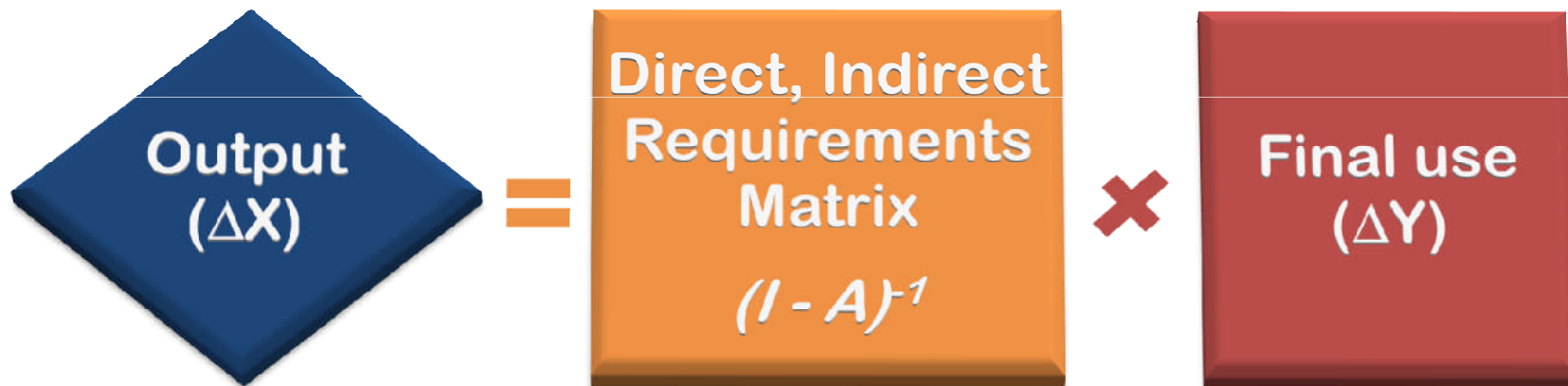
Unit: Billion VND

	Intermediate used	Final use				Total
		Consumption		Investment	Export	
		HHs.	Govt.			
<b>Domestic</b>	<b>1,171,126</b>	<b>552,607</b>	<b>76,626</b>	<b>294,203</b>	<b>707,225</b>	<b>2,801,787</b>
TPP	174,174	73,383	724	59,563		307,844
Asean*	62,671	24,118	239	15,155		102,183
<b>TPP + APEC</b>	<b>131,782</b>	<b>52,700</b>	<b>543</b>	<b>46,655</b>		<b>231,680</b>
RCEP*	57,560	34,727	264	21,433		113,984
FTAAP*	80,441	27,615	297	17,940		126,293
RoW	97,805	57,489	486	52,317		208,097
<b>Total Import</b>	<b>604,433</b>	<b>270,032</b>	<b>2,553</b>	<b>213,063</b>		<b>1,090,081</b>
<b>Total Intermediate</b>	<b>1,775,559</b>					
<b>Value added</b>	<b>1,026,228</b>					
<b>Total</b>	<b>2,801,787</b>	<b>822,639</b>	<b>79,179</b>	<b>507,266</b>		

**GDP - 6,2%**

## 7.4 Scenarios ( cont.)

The scenarios reduce the dependence of China economy



## 7.5 The scenario 3

Unit: Billion VND

	Intermediate used	Final use			Total	
		Consumption		Investment		Export
		HHs.	Govt.			
<b>Domestic</b>	1,171,787	552,607	76,626	295,203	777,071	2,872,294
China + AEC + TPP	115,705	46,541	479	41,202		203,927
RoW	472,651	217,332	2,010	166,408		858,401
<b>Total Import</b>	<b>588,356</b>	<b>263,873</b>	<b>2,489</b>	<b>207,610</b>		<b>1,062,328</b>
<b>Total Intermediate</b>	<b>1,760,143</b>					
<b>Value added</b>	<b>1,112,151</b>					
<b>Total</b>	<b>2,872,294</b>	<b>816,480</b>	<b>79,115</b>	<b>501,813</b>		

**GDP + 1,6%**

## 7.6 The scenario 4

Unit: Billion VND

	Intermediate used	Final use				Total
		Consumption		Investment	Export	
		HHs.	Govt.			
<b>Domestic</b>	1,171,787	555,082	76,626	295,244	777,071	2,872,810
China + AEC + TPP	115,705	46,541	479	41,202		203,927
RoW	472,651	217,332	2,010	166,408		858,401
<b>Total Import</b>	<b>588,356</b>	<b>263,873</b>	<b>2,489</b>	<b>207,610</b>		<b>1,062,328</b>
<b>Total Intermediate</b>	<b>1,760,143</b>					
<b>Value added</b>	<b>1,115,667</b>					
<b>Total</b>	<b>2,872,810</b>	<b>818,955</b>	<b>79,115</b>	<b>502,854</b>		

**GDP + 2,0%**



## 7.7 The scenario 5

Unit: Billion VND

	Intermediate used	Final use				Total
		Consumption		Investment	Export	
		HHs.	Govt.			
<b>Domestic</b>	1,171,787	559,385	76,626	296,806	777,071	2,881,675
China + AEC + TPP	115,705	46,541	479	41,202		203,927
RoW	472,651	217,332	2,010	166,408		858,401
<b>Total Import</b>	<b>588,356</b>	<b>263,873</b>	<b>2,489</b>	<b>207,610</b>		<b>1,062,328</b>
<b>Total Intermediate</b>	<b>1,760,143</b>					
<b>Value added</b>	<b>1,121,531</b>					
<b>Total</b>	<b>2,881,675</b>	<b>823,258</b>	<b>79,115</b>	<b>504,416</b>		

**GDP + 2,5%**

# **8. Conclusion**

**Thanks for listening!**