

***Asian Development Bank***  
**RETA 6483 – Adopting the Supply and Use Framework Towards  
1993 System of National Accounts Compliance in Selected DMCs**  
**ADB Headquarters, Manila, Philippines**  
***Data Review Workshop***  
**13-17 February 2009**

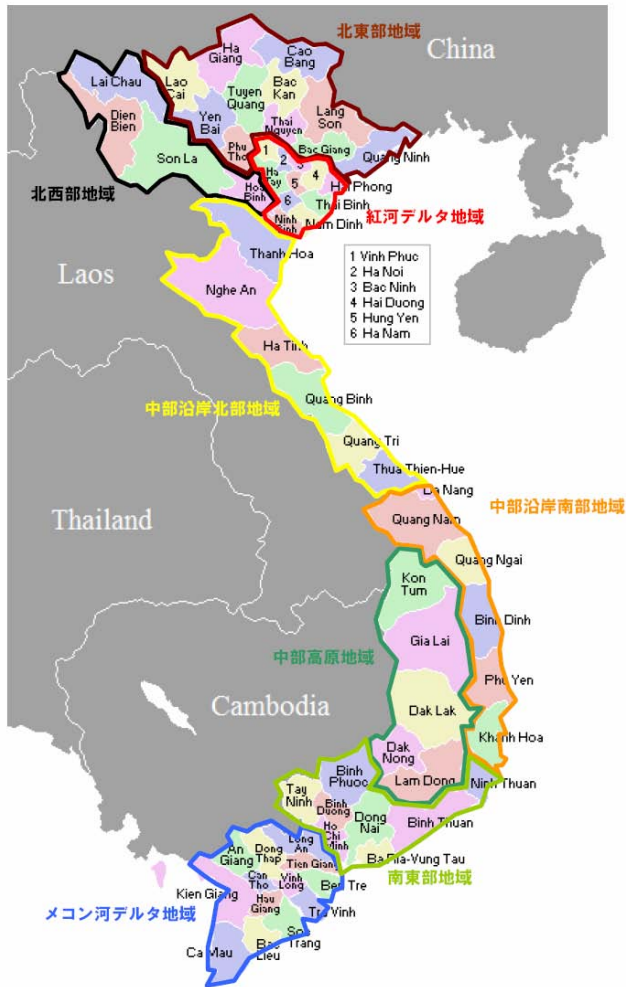
**Supply and Use tables, 2003**  
**Viet nam**

*Prepared By*

**Nguyen van Nong, Bui Trinh**  
Vietnam national Account Department-VN GSO

The views expressed in this presentation are the views of the speaker and do not necessarily reflect the views or policies of the Asian Development Bank (ADB), or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this paper and accepts no responsibility for any consequence of their use. Terminology used may not necessarily be consistent with ADB official terms. 1

# General Information(1)



Area of Vietnam: 331690  
Km2

Population: 85154900  
people

GDP per capital: 1000 US\$  
(2008)

## General Information(2)

Region	Sub-region	Province/City
North of VN	NORTH WEST REGION(4pr)	4Son La, Lai Chau, Dien bien, Hoa Binh
	NORTH EAST REGION(13 pr)	Ha Giang, Cao Bang, Lao Cai, Bac Kan, Tuyen Quang, Lang Son, Yen Bai, Thai Nguyen, Phu Tho, Vinh Phuc, Bac Giang, Bac Ninh, Quang Ninh
	RED RIVER DELTA REGION (9 pr)	Ha Noi City, Hai Phong City, Ha Tay, Hai Duong, Hung Yen, Ha Nam, Nam Dinh, Thai Binh, Ninh Binh
Centre of VN	NORTH CENTRAL REGION (6pr)	Thanh Hoa, Nghe An, Ha Tinh, Quang Binh, Quang Tri, Thua Thien Hue
	SOUTH CENTRAL COAST REGION(6pr)	Da Nang City, Quang Nam, Quang Ngai Binh Dinh, Phu Yen, Khanh Hoa
	CENTRAL DELTA HIGHLANDS REGION(3pr)	Kon Tum, Gia Lai, Dak Lak
South of VN	NORTH EAST SOUTH REGION! (10ppr)	Ho Chi Minh City, Lam Dong, Ninh Thuan, Binh Phuoc, Tay Ninh, Binh Duong, Dong Nai, Binh Thuan, Ba Ria Vung Tau
	MEKONG RIVER DELTA REGION (12 pr)	Long An, Dong Thap, An Giang, Tien Giang, Vinh Lon, Ben Tre, Kien Giang, Can Tho, Tra Vinh, Soc Trang, Bac Lieu, Ca Mau

## Outline of Presentation follow ADB request

1. Benchmark year for supply and use table:  
2003
2. Choice of aggregates: 112 sectors of  
commodity and industry.

# Outline of Presentation follow ADB request

Value added size:

<b>Compensation of employees</b>
<b>indirect tax less subsidies</b>
<b>Operating surplus</b>
<b>Land</b>
<b>Depreciation</b>

# Outline of Presentation follow ADB request

Final demand size:

<b>Household consumption</b>
<b>Government</b>
<b>Fixed assets</b>
<b>Change in inventory</b>
<b>Export</b>

# Outline of Presentation follow ADB request

The vectors for  
balancing:

Trade margin
Transportation margin
Imports
Import duties
Taxies on product

### **3. The main information sources are**

#### **A. Information from administrative organization:**

- **Ministry of Finance and provincial/city department of Finance**
- **General Tax Office and provincial/city tax office**
- **State Bank and Provincial/city bank**
- **General customs Office and provincial/city customs office**
- **Regular statistics reports at both national and provincial levels**

# The main information sources Cont.

## **B. Information from statistics survey**

- Population and Housing survey (every ten years) > It was started at 1979
- Agriculture and rural survey (every 5 years), Standard Living survey (every 2 years) > It was started at 1997
- Enterprises survey every year > It was started at 2000
- Special ad-hoc survey for compiling S.U.T

## **C. Information from provinces**

- Every year each province statistics office has to report on gross output, intermediate input and value added by sectors

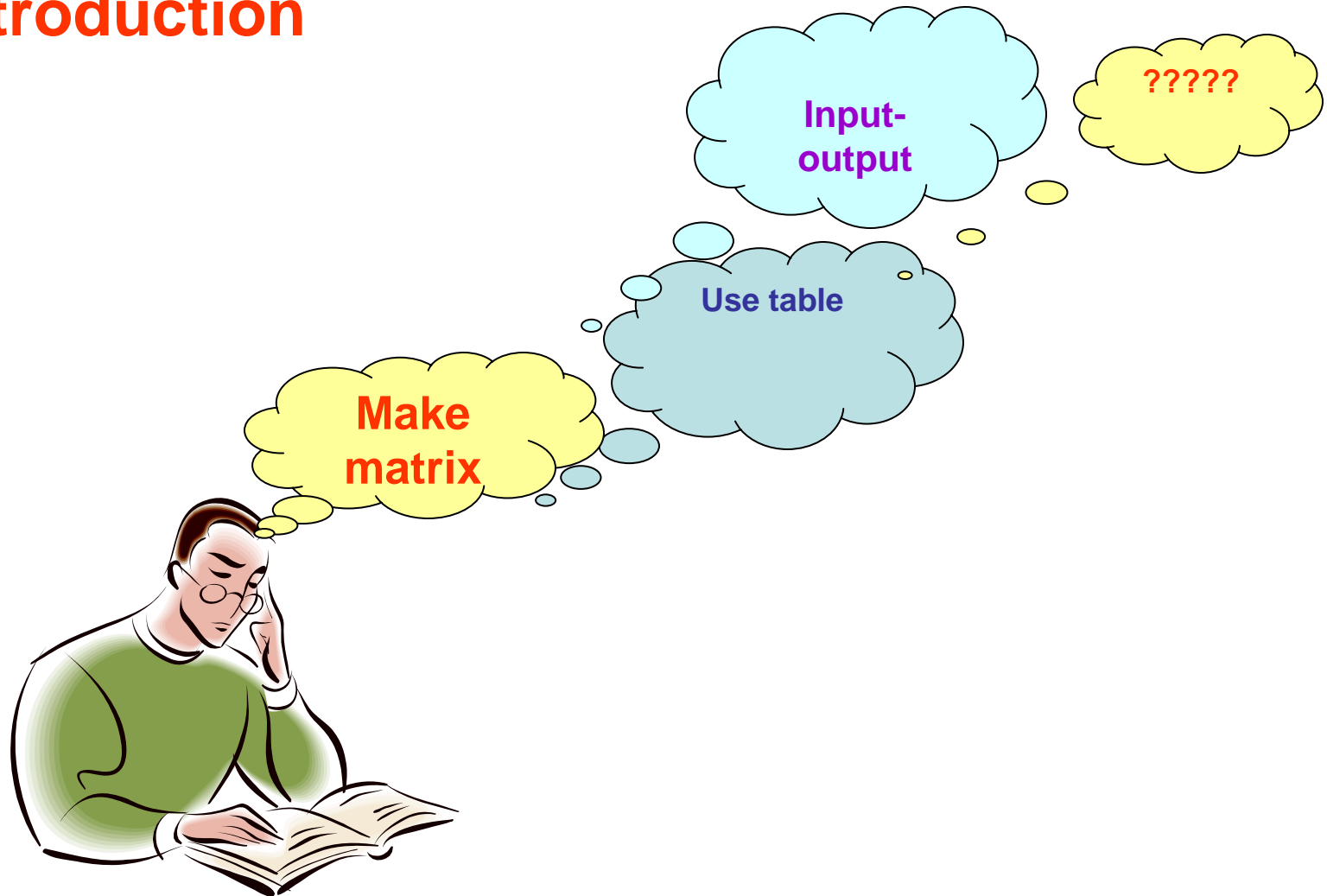
## 4. Compilation methodology

**1. Supply table**

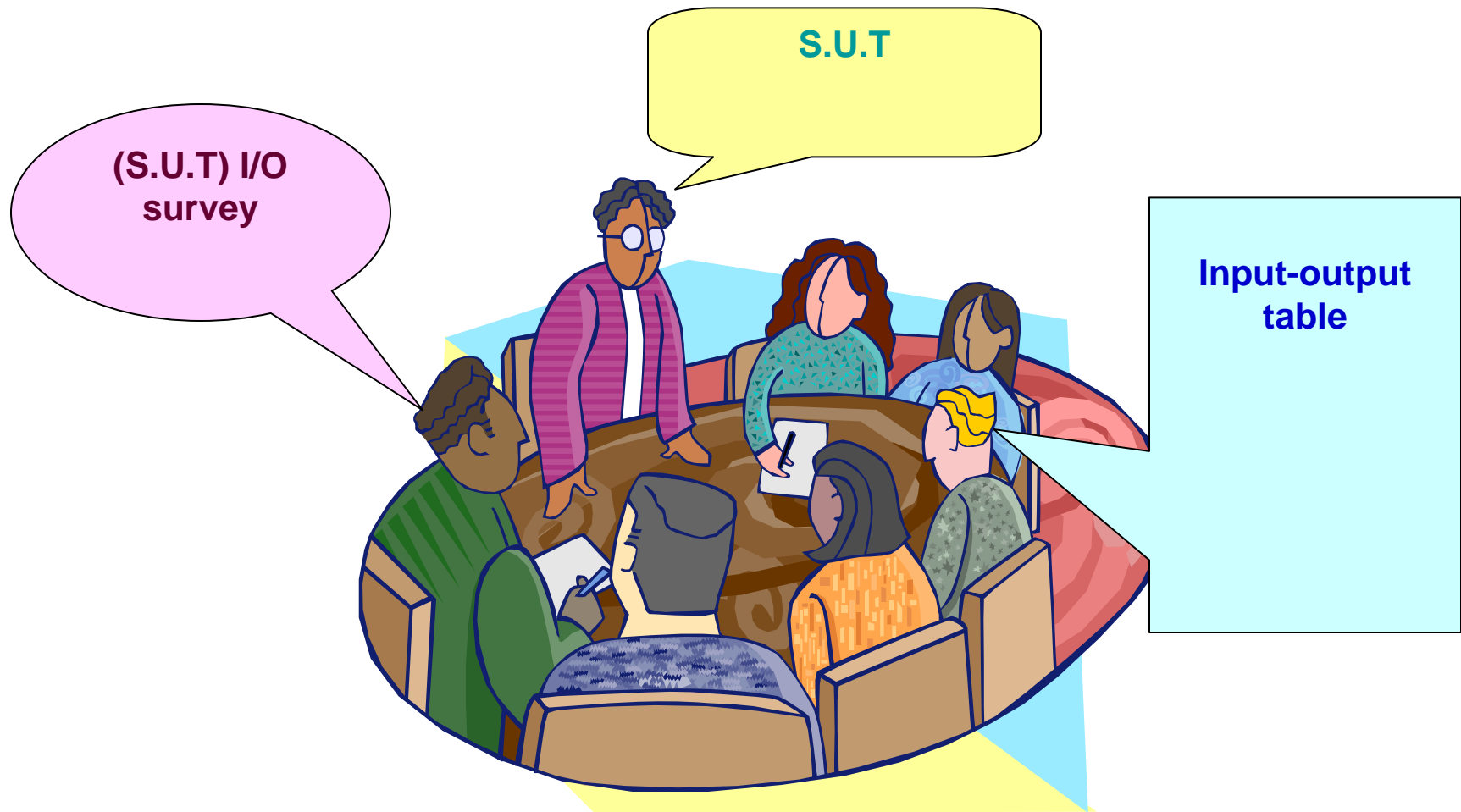
**2. Use table**

**3. Balancing**

# Introduction



# Introduction



# Supply table

- + Compiled supply table based on enterprise survey and special ad-hoc I-O survey**
- + Supply table is square matrix, with dimension is (commodity x industry), it includes 112 sectors of commodity and industry**
- + The elements of supply table are basic price**
- + The elements at diagonal of supply table presents as main products**
- + The elements outside of diagonal presents by products**

# Supply table Cont.

- The supply matrix presents gross output by industry as total of column (GOin) at basic price
- And gross output by commodity as total of row (GOpro) at basic price
- Vector of gross output at basic price + vector of Tax on products + import duties vector + trade and transportation margins = Gross output at purchase price
  - SEE DIAGRAM AT FILE.EXEL

# Supply table Cont.

- How can we get import duties matrix?
  1. Using HS code and tariff by commodity of HS code
  2. Converted from HS code to CPC code
  3. Converted from CPC code to I-O code
  4. Using supply matrix in order to compile import duties matrix

# Supply table at basic price (Million Vietnam dong)

	<b>Goods</b>	<b>Trade margin</b>	<b>Transport margin</b>	<b>Services</b>
<b>Goods</b>	<b>959,040,401</b>	<b>2,600,599</b>	<b>310,555</b>	<b>1,994,086</b>
<b>Trade margin</b>	<b>53,767,640</b>	<b>16,585,404</b>	<b>536,374</b>	<b>1,385,302</b>
<b>Transport margin</b>	<b>6,646,206</b>	<b>6,646,206</b>	<b>6,646,206</b>	<b>-</b>
<b>Services</b>	<b>73,468,341</b>	<b>16,864,366</b>	<b>907,111</b>	<b>188,132,219</b>
<b>Total</b>	<b>1,092,922,588</b>	<b>42,696,575</b>	<b>8,400,246</b>	<b>191,511,607</b>

# Coefficients of Supply table at basic price

	<b>Goods</b>	<b>Trade margin</b>	<b>Trasport margin</b>	<b>Services</b>
<b>Goods</b>	<b>0.878</b>	<b>0.061</b>	<b>0.037</b>	<b>0.010</b>
<b>Trade margin</b>	<b>0.049</b>	<b>0.388</b>	<b>0.064</b>	<b>0.007</b>
<b>Trasport margin</b>	<b>0.006</b>	<b>0.156</b>	<b>0.791</b>	<b>-</b>
<b>Services</b>	<b>0.067</b>	<b>0.395</b>	<b>0.108</b>	<b>0.982</b>

# Tax matrix

	<b>Goods</b>	<b>Trade margin</b>	<b>Trasport margin</b>	<b>Services</b>
<b>Goods</b>	38,868,274	113,262	13,099	68,462
<b>Trade margin</b>	4,074,816	1,256,936	40,649	104,986
<b>Trasport margin</b>	581,138	581,138	581,138	-
<b>Services</b>	6,203,801	1,284,080	51,032	6,819,872

# Import duties matrix

	<b>Goods</b>	<b>Trade margin</b>	<b>Trasport margin</b>	<b>Sercices</b>
<b>Goods</b>	<b>13,312,282</b>	-	-	-
<b>Trade margin</b>	<b>6,748,996</b>	-	-	-
<b>Trasport margin</b>	<b>5,796</b>	<b>5,796</b>	<b>5,796</b>	-
<b>Sercices</b>	<b>7,369,971</b>	-	-	-

Supply table at producer price = Supply table  
 at basic price + Tax matrix + import duties  
 matrix (Million Vietnam dong)

	<b>Goods</b>	<b>Trade margin</b>	<b>Trasport margin</b>	<b>Services</b>
<b>Goods</b>	997,908,675	2,713,861	323,654	2,062,548
<b>Trade margin</b>	57,842,456	17,842,340	577,024	1,490,288
<b>Trasport margin</b>	7,227,344	7,227,344	7,227,344	-
<b>Services</b>	79,672,142	18,148,446	958,142	194,952,091
	<b>1,142,650,618</b>	<b>45,931,991</b>	<b>9,086,164</b>	<b>198,504,926</b>

# Coefficient of Supply table at producer price

	<b>Goods</b>	<b>Trade margin</b>	<b>Trasport margin</b>	<b>Services</b>
<b>Goods</b>	<b>0.873</b>	<b>0.059</b>	<b>0.036</b>	<b>0.010</b>
<b>Trade margin</b>	<b>0.051</b>	<b>0.388</b>	<b>0.064</b>	<b>0.008</b>
<b>Trasport margin</b>	<b>0.006</b>	<b>0.157</b>	<b>0.795</b>	<b>-</b>
<b>Services</b>	<b>0.070</b>	<b>0.395</b>	<b>0.105</b>	<b>0.982</b>

# Use table

- It includes three parts
- The first is intermediate consumption matrix
- The second is final demand matrix
- The third is value added matrix

# Use table

- The dimension of intermediate matrix is commodity by industry
- The column of it presents input structure by each industry
- Total of column is vector of intermediate input
- The row of it presents commodity flow
- The total of row is vector of intermediate consumption

# Use table

	<b>Goods</b>	<b>Trade margin</b>	<b>Trasport margin</b>	<b>Sercices</b>	<b>Final demand</b>	<b>Gross output</b>
<b>Goods</b>	<b>565418650</b>	<b>24392085</b>	<b>8848830</b>	<b>74904458</b>	<b>831,434,460</b>	<b>1,504,998,483</b>
<b>Trade margin</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>0</b>
<b>Trasport margin</b>	<b>3535826</b>	<b>280773</b>	<b>71055</b>	<b>1244214</b>	<b>15,533,419</b>	<b>20665286.82</b>
<b>Sercices</b>	<b>25925948</b>	<b>9191520</b>	<b>2849760</b>	<b>32743515</b>	<b>170,852,426</b>	<b>241563168.8</b>
Compensation of employees	193488478	21504918	6272714	89485267		
indirec taxes	41119050	5765671	1202118	9348840		
Operating surplus	102349664	12771115	3464801	27484404		
Land	28592545	0	0	0		
Depreciation	42578577	3846025	2117463	14632395		

# 5. Summary of result and finding (Balancing of SUT)

- See File.exel

## 6. Issues and problems encountered

- i. The information for compiling SNA of Vietnam are not consistently and don't meet demand, for example:
  - + SNAd calculated value added of each sector based on gross output of Industry department (also belong to VNGSO).
  - + But GO indicator that SNAd got from industry department are not consistent with concept of SNA such as:

## 5. Cont.

- The approach for calculating GO of industry department can not define what price of gross output of each sector (JICA and UNIDO)
- ii. Obedience of the Law and regulation on data provision is not in a strict way,
- iii. The law of account enterprise always change.
- iv. Delayed of data submission and not up-to-date
- v. System of price index is inadequate, many categories of PPI are lack...
- vi. Limitation of timeliness and quality of data of surveys

## 5. Cont.

- vii. Financial resources to carry out surveys for compiling supply and use/IO tables are very difficult
- viii. The number of staffs working in National Accounts lack both quantity and quality, in which there are very small people that can knowledge in order to compile I/O table

**Thanks for your attention**