



BANK OF THAILAND

Thailand's FDI Statistics Compilation

External Sector Statistics Division,
Statistics and Information Systems Department,
Bank of Thailand



Topics

Overview

Data Sources

FDI Compilation on Surveys



- The Statistics and Information Systems Department (SID) of the Bank of Thailand (BOT) assigns the **External Sector Survey and Processing Team** to collect and compile International Investment Position statistics, including FDI stock statistics.
- The External Sector Survey and Processing Team conducts surveys on **International Investment Position** and **External Debt** that could not be captured through the international transactions report system (ITRS).
- More emphasis is placed upon information pertaining to **private non-bank sector**.



- The FDI statistics compilation follows the International Monetary Fund (IMF)'s conceptual framework of the Balance of Payments and International Investment Position Manual (BPM6).
- FDI can be classified as follows :
 - **Equity capital : 10% + of ordinary shares or voting power**
 - **Reinvested earnings**
 - **Other capital (e.g. borrowing from/lending to affiliates, debt securities and trade credit among affiliates)**



- Breakdown by **asset-liabilities approach** :
 - **FDI Liabilities**
 - Liabilities of Thai affiliates to foreign parent companies
 - Liabilities of Thai affiliates to foreign fellow enterprises
 - Liabilities of Thai direct investors to foreign affiliates
 - **FDI Assets**
 - Thai investors' claims on foreign affiliates
 - Thai affiliates' claims on foreign fellow enterprises
 - Thai affiliates' claims on foreign parent companies



- **Surveys**
 - **Quarterly survey on Thailand's International Investment Position (*Form 46*)**
 - *A new survey form for the purpose of collecting data on FDI and foreign assets was designed and carried out in the first quarter of 2011 onwards.*
 - *This new IIP survey is re-designed to compile IIP data by quarter which will be disseminated in September 2014.*
 - **Quarterly survey on Private Non-bank External Debt (*Form 42*)**
 - *The external debt survey captures the information on external debt outstanding (loans, debt securities, deposits, and other debt liabilities) on quarterly basis.*



- **Surveys (cont.)**
 - *Quarterly survey on Thailand's International Investment Position (Form 46)*
 - *Quarterly survey on Private Non-bank External Debt (Form 42)*
 - **Annually survey on Methods of Payments and Outstanding Trade Credits for International Trades (Form 44).**
 - *2006, launched the trade credit survey, collected on an annual basis, with quarterly break down.*
 - *This survey collects information on methods of payments for exports/imports and on trade credits liabilities received from non-resident sellers and/or trade credits provided to non-resident buyers.*
 - *The information collected would be used for estimation of outstanding trade credits, both claims and liabilities.*



- **Direct Report**
 - **Direct report on financial statement relating to international investment position (*Form 45- SBC3/1*)**
 - *2006, the BOT signed an MOU with the Department of Business Development (DBD) to collect an annual direct report of financial statement relating to IIP.*
 - *All registered Thai corporate with foreign shareholders and/or Thai companies investing abroad with equity participation from 1% and above are mandated to submit this report to the BOT within 5 months from the reference year-end date.*
 - *The IIP survey population list could be obtained from SBC3/1.*
- **International Transaction Reporting System (ITRS)**



Surveys: IIP (current practice)

Population

- **All registered Thai corporate with foreign shareholders and/or Thai companies investing abroad with equity participation from 1% and above**
- **Population survey is carried out every 5 years.**

Survey Sampling

- **Companies with more than 1 billion THB investment outstanding; around 700 - 800 companies**
- **The survey samples encompass around 85 percent of aggregate population value.**



Surveys: IIP (current practice)

Survey Sample Frame

Type of DI	Threshold Criteria	Data Selection Technique	Number of Companies	Coverage of Data
FDI	1 B.THB (33 M.USD) and above	Cut off tail	650	80 %
TDI	1 B.THB (33 M.USD) and above	Cut off tail	80	90 %



Surveys: IIP (current practice)

Imputation

- **Non-selected and non-responding entities are estimated by population structure of responding entities in the reference period.**



Surveys: External Debt (current practice)

Survey Sampling

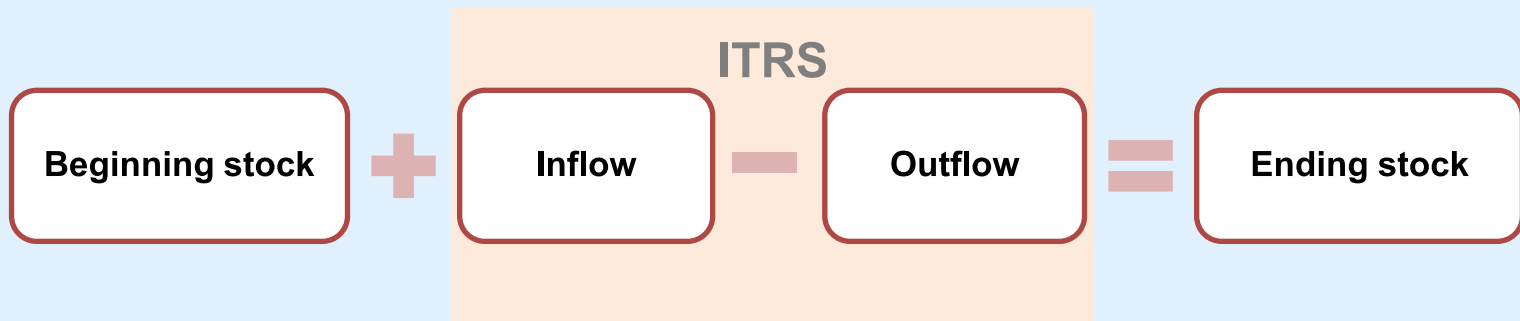
- All companies with more than 20 million USD of external debt outstanding; around 290 companies
- Companies with debt outstanding between 3.5-20 million USD are randomly selected for 50 units
- The survey samples encompass around 80 percent of aggregate population value
- Response rate is generally around 95 percent or above



Surveys: External Debt (current practice)

Estimation for Non-samplings

- **Non-samples** : Companies with less than 3.5 million US\$ debt outstanding recorded around 4,500 companies.
- A proxy for non-sampled enterprises could be estimated using the equation below (accumulating flows with existing stocks):





Surveys: External Debt (current practice)

Survey Sample Frame

Threshold Criteria	Data Selection Technique	Number of Companies	Coverage of Data
> 20 MUSD	Cut off tail	290	78 – 80 %
3.5 – 20 MUSD	Randomly selected for 50 companies for QC		
< 3.5 MUSD	Not survey use ITRS		



Surveys: Trade Credits (current practice)

Survey Sample Frame

Threshold Criteria	Data Selection Technique	Number of Companies	Coverage of Data
With both imports and exports amount of > 2,000 MTHB (64 MUSD)	Cut off tail	500	65 %
400 - 2,000 MTHB (13 - 66 MUSD)	selected	900	15 %



FDI Liabilities in Services

Bank of Thailand EC_XT_067 : Foreign Direct Investment Position Classified by Business Sector of Thai Enterprises (US\$) 1/ (Millions of US Dollars) Last Updated : 30 Sep 2013 17:01 Retrieved date : 01 Oct 2013 11:16			
	2010	2011	2012
1 A Agriculture, forestry and fishing	99.10	93.01	110.26
2 B Mining and quarrying	2,339.44	2,433.98	2,517.07
3 C Manufacturing	67,103.76	72,410.21	80,961.77
4 Of which:			
5 10 Manufacture of food products	3,013.91	3,729.76	3,779.85
6 11 Manufacture of beverages	1,457.87	1,489.77	2,148.10
7 17 Manufacture of paper and paper products	855.21	1,265.55	1,301.26
8 19 Manufacture of coke and refined petroleum products	3,108.49	3,256.01	3,358.19
9 20 Manufacture of chemicals and chemical products	8,776.67	7,748.33	8,209.27
10 21 Manufacture of basic pharmaceutical products and pharmaceutical preparations	0.00	595.12	530.27
11 22 Manufacture of rubber and plastics products	5,070.01	6,025.21	7,120.96
12 24 Manufacture of basic metals	3,332.93	3,220.96	3,752.71
13 25 Manufacture of fabricated metal products, except machinery and equipment	2,907.94	2,849.44	2,768.49
14 26 Manufacture of computer, electronic and optical products	13,090.79	14,372.17	15,693.74
15 27 Manufacture of electrical equipment	2,489.92	3,471.32	4,329.03
16 28 Manufacture of machinery and equipment n.e.c.	3,883.46	4,430.67	4,817.82
17 29 Manufacture of motor vehicles, trailers and semi-trailers	13,904.84	13,991.34	17,173.39
18 31 Manufacture of furniture	106.76	108.49	82.93
19 D Electricity, gas, steam and air conditioning supply	1,524.96	1,744.97	2,025.60
20 F Construction	1,258.72	1,210.99	1,340.39
21 G Wholesale and retail trade; repair of motor vehicles and motorcycles	11,773.20	10,864.65	12,540.28
22 H Transportation and storage	1,871.35	1,902.25	1,998.67
23 I Accommodation and food service activities	1,177.76	1,080.64	1,128.30
24 J Information and communication	3,988.49	9,783.00	12,909.77
25 K Financial and insurance activities 2/	36,225.73	37,706.85	45,026.79
26 L Real estate activities	9,927.87	10,202.06	11,950.72
27 Others	5,207.80	9,910.14	13,179.14
28 Total	142,498.18	159,342.75	185,688.76
Source:			
Bank of Thailand			
Remark:			
1/ Includes equity and investment fund shares, reinvested earnings and debt instruments from/to related companies.			
2/ Includes investments in investment companies			

- FDI can be classified by business sector of Thai Enterprises.
- Service sector disseminated by ISIC Rev. 4
 - D Electricity, gas, steam and air conditioning supply
 - F Construction
 - G Wholesale and retail trade; repair of motor vehicles and motorcycles
 - H Transportation and storage
 - I Accommodation and food service activities
 - J Information and communication
 - K Financial and insurance activities 2/
 - L Real estate activities



FDI Assets in Services

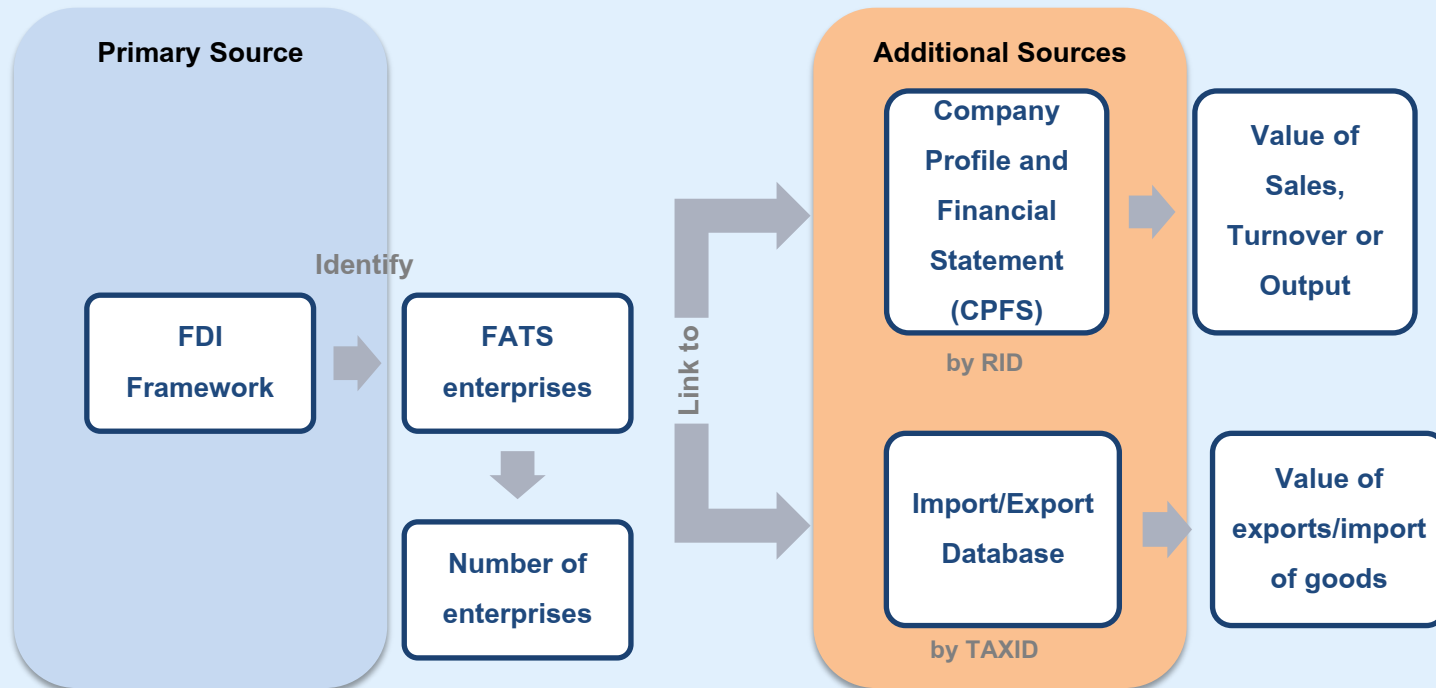
Bank of Thailand			
EC_XT_068 : Thai Direct Investment Position Abroad Classified by Business Sector of Thai Investors			
(Millions of US Dollars)			
Last Updated : 30 Sep 2013 15:42			
Retrieved date : 01 Oct 2013 11:23			
	2010	2011	2012
1 A Agriculture, forestry and fishing	64.22	4.69	4.85
2 B Mining and quarrying	7,615.79	10,776.09	13,722.78
3 C Manufacturing	6,696.46	8,495.83	14,404.13
4 Of which:			
5 10 Manufacture of food products	1,717.99	1,864.53	3,608.75
6 11 Manufacture of beverages	276.75	598.59	1,239.96
7 13 Manufacture of textiles	440.69	533.78	586.21
8 17 Manufacture of paper and paper products	161.32	302.52	319.13
9 20 Manufacture of chemicals and chemical products	1,089.67	1,389.21	1,835.52
10 22 Manufacture of rubber and plastics products	206.70	267.25	355.14
11 26 Manufacture of computer, electronic and optical products	967.53	751.20	2,342.70
12 27 Manufacture of electrical equipment	85.79	410.16	467.24
13 28 Manufacture of machinery and equipment n.e.c.	324.49	463.63	668.73
14 29 Manufacture of motor vehicles, trailers and semi-trailers	634.51	396.84	862.98
15 D Electricity, gas, steam and air conditioning supply	649.85	15.25	19.91
16 F Construction	299.65	318.99	352.70
17 G Wholesale and retail trade; repair of motor vehicles and motorcycles	2,406.20	3,462.57	4,581.04
18 H Transportation and storage	948.54	346.08	364.36
19 I Accommodation and food service activities	232.11	164.92	168.32
20 K Financial and insurance activities 2/	2,737.68	6,729.71	8,482.98
21 L Real estate activities	1,004.31	1,055.19	1,172.49
22 Others	914.89	10,135.55	12,870.70
23 Total	23,569.70	41,504.87	56,144.26
Source:			
Bank of Thailand			
Remark:			
1/ Includes equity and investment fund shares, reinvested earnings and debt instruments from/to related companies.			
2/ Includes investments in investment companies			



FDI Framework for FATS

Compilation of Inward FATS statistics

- FDI Framework is the primary source to identify Inward FATS enterprises which have a majority ownership or hold more than 50% of the equity capital by foreign owner.





Foreign Affiliates Statistics - Inward FATS

Bank of Thailand EC_XT_069 : Foreign Affiliates Statistics - Inward FATS Classified by Business 1/ (Unit : Millions of Baht) Last Updated : 28 Dec 2012 14:35 Retrieved date : 18 Sep 2013 14:12				
2010				
	Number of enterprises	Imports of goods and services 2/	Exports of goods and services 2/	Sales/ turnover or output
1 Agriculture, Forestry and Fishing, Mining and Quarrying 3/	42	13,428.85	6,759.78	45,364.58
2 Manufacturing	1,809	2,504,478.24	2,019,828.17	4,511,244.26
3 Electricity, Gas, Steam and Air conditioning Supply	19	12.62	311.11	5,577.28
4 Water supply; Sewerage, Waste Management and Remediation Activities	8	190.88	186.54	1,697.58
5 Construction	36	177.63	479.27	1,130.14
6 Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles	674	185,631.79	346,764.46	1,034,346.70
7 Transportation and Storage	56	345.76	2,484.74	8,446.16
8 Accommodation and Food Service Activities	25	-	303.23	8,160.62
9 Information and Communication	125	2,156.59	4,164.93	19,941.88
10 Financial and Insurance Activities	156	15.98	275.78	328,597.65
11 Real Estate Activities	19	7.69	69.59	138.68
12 Professional, Scientific and Technical Activities	227	107,601.36	38,081.52	299,653.40
13 Administrative and Support Service Activities	81	129.70	409.76	6,390.98
14 Education, Human Health and Social Work Activities, Arts, Entertainment and Recreation 3	12	0.00	4.17	88.95
15 Other Service Activities	73	2,912.25	5,098.03	8,111.64
16 Grand Total	3,362	2,817,089.40	2,425,221.15	6,278,890.56
Source:				
Bank of Thailand				
Remark:				
1/ The activities of FATS enterprises are classified by ISIC Rev. 4 categories for foreign affiliates statistics (ICFA Rev. 1). These categories cover all activities in				
2/ Exports and Imports data are transactions of goods only, not include services.				
3/ The number of FATS enterprises are insufficient to release by individual business, therefore a conglomeration of some businesses are necessary.				



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Thank You