

# FATS, FDI, and Multinational Companies

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### Overview of Presentation

- International recommendations on Foreign AffilaTes Statistics (FATS) and Foreign Direct Investment (FDI)
- General FATS and FDI compilation issues
- U.S. experience with multinational companies and FATS compilation
- Other Business Services as compiled for the Balance of Payments and connection to FATS

# International Recommendations on FATS and FDI



- Manual of Statistics on International Trade in Services (MSITS 2010)
- Balance of Payments and International Investment Position Manual 6<sup>th</sup> edition (BPM6)
- Eurostat FATS Recommendations Manual
- OECD Benchmark Definition of Foreign Direct Investment 4<sup>th</sup> edition (BD4)
- OECD Handbook of Economic Globalisation Indicators (HEGI)



## FDI Concepts and Principles

- Resident enterprise establishes a lasting interest in an enterprise located in another economy
- Lasting interest defined as the direct or indirect ownership of 10 per cent or more the voting power
- FDI comprises the initial transaction and all subsequent transactions (debt and equity)
- For balance of payments, FDI aggregates and components reported on an asset/liability basis
- For FDI by partner country and economic activity, data are reported on a directional basis



#### Types and Uses of FDI Statistics

- FDI statistics cover three broad categories
  - direct investment transactions (financial flows)
  - direct investment positions (gross stocks)
  - direct investment income
- Included in the balance of payments and international investment position; investment income is also included in the national accounts (GNI)
- Can be used in the absence of FATS to obtain insights into the impact of globalization on particular countries
- FDI financial transactions and related investment position and income measures are not FATS variables



### Concepts of Trade in Services

- Conventional: Resident / non-resident transactions (exports and imports)
- Broader view
  - > Resident / non-resident trade
  - Plus: Sales through affiliates (commercial presence mode of supply)
- Rationale for broader view
  - Many services require proximity of producer and consumer
  - Broader view is reflected in recent trade agreements, most notably GATS



#### What are FATS?

- Statistics about the operations of majority-owned foreign affiliates
  - With a particular focus on services
- FATS entities represent a subset of the FDI population
  - An understanding of FDI concepts and principles is critical for developing FATS



### Major Uses of FATS Data

- Globalization analysis
  - > Applicable to goods as well as services
  - Particularly relevant for services due to the frequent requirement for proximity between producer and consumer
- Monitoring GATS commercial presence mode of supply (mode 3)



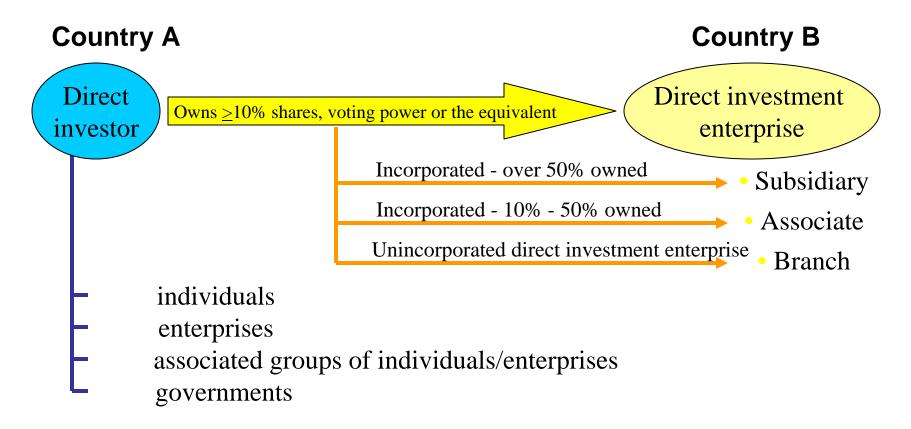
#### **Dimensions of FATS**

- Economic activity (industry) of the foreign affiliate
- Partner country identification
- Variables (sales/output, employment, value added, trade, number of entities, others)
- Product classification
  - >Longer-term goal
  - >Applicable to certain variables



#### The FDI Universe

FDI: the direct investor makes an international investment to obtain a lasting interest in an enterprise abroad





## Control: An Essential Concept

- FATS compiled, as a first priority, for foreigncontrolled subset of foreign affiliates
- Control defined in OECD Framework for Direct Investment Relationships (FDIR)
- Deemed to exist if majority ownership (i.e. control of more than 50%) of the voting power at each stage of ownership chain



### Control: Direct and Indirect

Ultimate
Controlling
Institutional
unit (UCI)
(if not controlled)

Immediate investor for A

Foreign affiliate for

Foreign affiliate for B

and C

Investor C Control

Enterprise B Control

**Enterprise A** 

Control

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### Compilation Issues

- Two principal methods of data collection
  - Identifying the foreign-owned subset of domestic firms for which data are already collected
    - Can be used only for inward investment
  - Separate surveys
    - FDI surveys
    - Special purpose FATS surveys

# Collect FATS Through FDI Surveys?

Two possibilities

# Specific surveys for FATS

Commonly considered preferable because ——>

# Add FATS variables to FDI surveys

but...

- Burden on FDI-non-FATS enterprises
- FDI surveys conducted frequently and require quick turnaround

# FATS Sources for Selected Economies

	Inward			Outward			
	FDI	Resident	Separate	FDI	Resident	Separate	
	survey	enterprise	survey	survey	enterprise	survey	
		statistics			statistics		
Australia		X				X	
Austria	X			X			
Belgium		X		X			
Canada				X			
Czech Republic		X		X			
Denmark		X					
Finland	X	X		X			
France		X		X			
Germany	X			X			
Hong Kong, China		X					
Hungary	X			X			
Italy			X	X			
Japan			X			X	
Luxembourg	X						
Netherlands		X					
Norway	X						
Poland		X					
Portugal	X			X			
Sweden			X			X	
Switzerland	X			X			
Turkey		X					
United Kingdom		X					
United States			X			X	



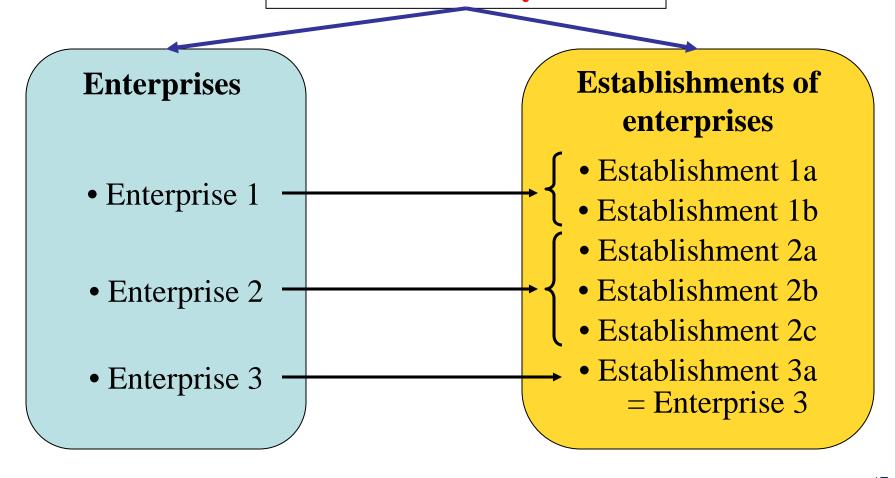
### Business Registers for FDI/FATS

- Domestic business statistics register
  - Identify foreign-owned enterprises and follow ownership chain to determine UCI
  - Identify enterprises with foreign affiliates and probe to determine locations of affiliates
- Administrative records such as business tax returns with foreign activity indicator
- Regulatory reports for financial transactions
- Financial reports and media reports
- Commercial databases



#### Statistical Units

Units considered in FATS statistics may be





### **Economic Variables for FATS**

#### Most are drawn from System of National Accounts

**Basic FATS variables** 

(minimum recommended by MSITS)

- Assets
- Compensation of employees
  - Net worth
  - Net operating surplus
- Gross fixed capital formation
  - Taxes on income
- Research and development expenditures

- Sales (turnover) and/or output
  - Employment
  - Value added
  - Exports and imports of goods and services
    - Number of enterprises





# Recording FATS Variables

Accrual basis

Recording when the transaction occurs rather than when the related payment is made

Period of recording

Flow variables → reference year

Stock variables → end of reference year

Reference year

Calendar year in principle

If only fiscal or accounting year is available

**Explanatory note** 



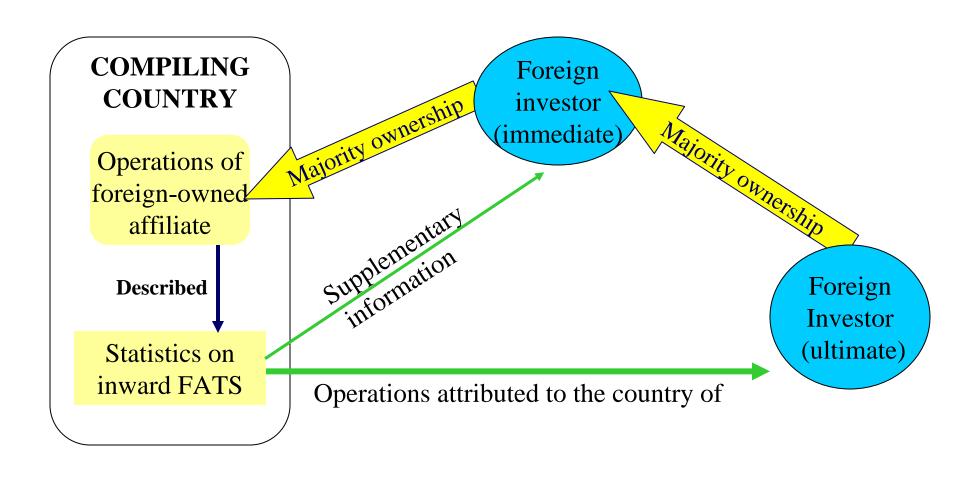


### Attribution of FATS Variables

- By partner country
  - >Inward FATS: Ultimate investor
  - ➤ Outward FATS: Location of affiliate
- By economic activity
  - ➤ Industry: ICFA
  - Product: Long-term goal

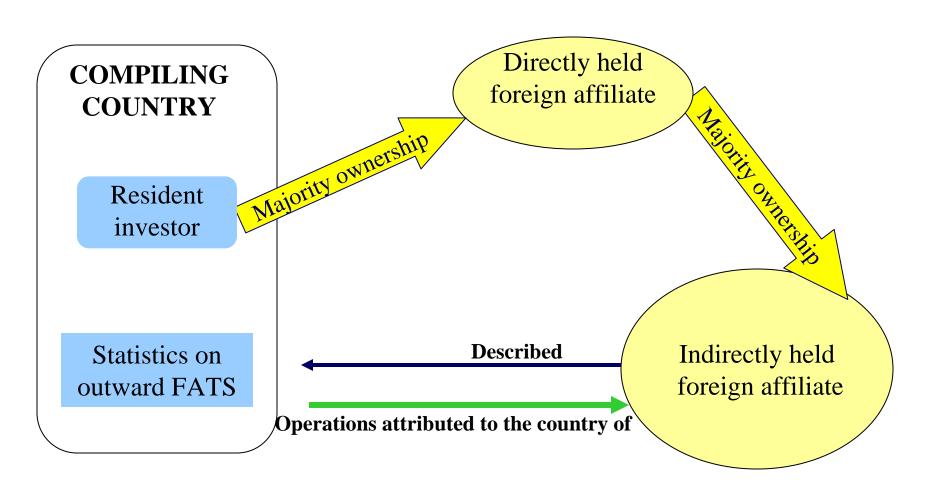


# Geographical Attribution Inward Investment





# Geographical Attribution Outward Investment



# Classification by Activity and by Product

- First priority
  - Foreign affiliates classified by their primary activity (industry)
- Long-term goal
  - Product breakdown for variables such as sales, imports and exports



### ICFA 2010

#### **ICFA** headings/elements

# ISIC Rev. 4 code

Section A
div. 01
group 016
div. 02
group 024
div. 03
Section B
div. 09
Section C
div. 33
Section D
class 3510
Section E
div. 36
div. 37
div. 38
div. 39

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#### **ICFA** headings/elements

# ISIC Rev. 4 code

CONSTRUCTION	Section F
WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES	Section G
Wholesale and retail trade and repair of motor vehicles and motorcycles	div. 45
Wholesale trade, except of motor vehicles and motorcycles	div. 46
Retail trade, except of motor vehicles and motorcycles	div. 47
TRANSPORTATION AND STORAGE	Section H
Land transport and transport via pipelines	div. 49
Passenger rail transport, interurban	class 4911
Freight rail transport	class 4912
Other passenger land transport	class 4922
Freight transport by road	class 4923
Transport via pipeline	class 4930
Water transport	div. 50
Sea and coastal water transport	group 501
Inland water transport	group 502
Air transport	div. 51
Warehousing and support activities for transportation	div. 52
Postal and courier activities	div. 53



# ICFA headings/elements ISIC Rev. 4 code

Section I
div. 55
div. 56
Section J
div. 58
group 581
group 582
div. 59
div. 60
div. 61
div. 62
class 6201
class 6202
class 6203
div. 63
group 631
group 639
class 6391
class 6399

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#### **ICFA** headings/elements

# ISIC Rev. 4 code

FINANCIAL AND INSURANCE ACTIVITIES	Section K
Financial service activities, except insurance and pension funding	div. 64
Insurance, reinsurance and pension funding, except compulsory social	div. 65
security	
Life insurance	class 6511
Non-life insurance	class 6512
Reinsurance	class 6520
Pension funding	class 6530
Activities auxiliary to financial services and insurance activities	div. 66
Activities auxiliary to financial service activities, except insurance and	group 661
pension funding  Activities auviliary to insurance and pension funding	aroun 662
Activities auxiliary to insurance and pension funding	group 662
Fund management activities	group 663
REAL ESTATE ACTIVITIES	Section L
PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES	Section M
Legal and accounting activities	div. 69
Legal activities	group 691
Accounting, bookkeeping and auditing activities; tax consultancy	group 692
Activities of head offices, management consultancy activities	div. 70

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CFA headings/elements	ISIC Rev. 4 code
Activities of head offices	group 70.1
Management consultancy activities	group 70.2
Architectural and engineering activities; technical testing and analysis	div. 71
Scientific research and development	div. 72
Advertising and market research	div. 73
Advertising	group 73.1
Market research and public opinion polling	group 73.2
Other professional, scientific and technical activities	div. 74
Veterinary activities	div. 75
ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	Section N
Rental and leasing activities	div. 77
Employment activities	div. 78
Travel agency, tour operator reservation service and related activities	div. 79
Security and investigation activities	div. 80
Services to buildings and landscape activities	div. 81
Office administrative, office support and other business support activities	div. 82
EDUCATION	Section P
HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	Section Q
Human health activities	div. 86
Residential care and social work activities	div. 87, 88
ARTS, ENTERTAINMENT AND RECREATION	Section R
Creative, arts and entertainment activities	div 90
Libraries, archives, museums and other cultural activities	div 91
Sporting and other recreational activities; gambling and betting activities	div 92, 93
OTHER SERVICE ACTIVITIES	Section S
Activities of membership organizations	div 94
Repair of computers and personal and household goods, other personal service activities	div 95,96

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# United States Experience

- First collected FDI operations data for 1950, covering outward investment
- Collection became more regular and detailed in the late 1970's/ early 1980's
- Authority- International Investment and Trade in Services Survey Act
  - Surveys are mandatory
  - Data are confidential
- Subject to Paperwork Reduction Act

# U.S. Experience: Collection Methods

- Largely a survey-based system
  - ▶ Benchmark surveys
    - Conducted every 5 years
    - Most comprehensive in subject matter
    - Lowest reporting thresholds
  - >Annual surveys in interim years
    - Higher exemption levels
    - Use statistical sampling
    - Estimates made for below-threshold and nonsampled companies

# U.S. Experience: Collection Methods

- Link to Census Bureau establishment-level data every 5 years
  - Advantages
    - Greatly increased industry detail
    - Easy to compare to domestic economy
    - No added reporting burden
  - **>**Limitations
    - Applies only to inward investment
    - Less timely
    - Less frequent



### U.S. Types of Data Collected

- Balance sheets
- Income statements
- Sales
- Employment and employee compensation
- Research and development expenditures
- Taxes
- U.S. trade in goods
- Value added (estimates built up from other items)

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# U.S. Adaptation to Services Needs

- Built on existing system
- Modifications to improve information on services
  - Sales broken down between goods, services, and investment income
  - Sales recorded by destination
  - More detailed industry classification
    - Aided by North American Industry Classification
       System, which gave greater emphasis to services



#### Statistical Unit

- For inward FDI
  - Each U.S. affiliate reports on a fully consolidated domestic basis
- For outward FDI
  - U.S. parent reports on a fully consolidated domestic basis
  - Foreign affiliates reports generally more deconsolidated
    - Never consolidated across country lines
    - Consolidated across industry lines only for integrated operations

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## Benchmark Surveys

- Most comprehensive for coverage and data content
- Different forms depending on firm size
- Conducted every five years and provide basis for estimates between benchmark years
- Inward FDI/FATS benchmark survey
  - ➤ Most recently conducted for 2007
  - Included 5,652 reporting U.S. affiliates
- Outward FDI/FATS benchmark survey
  - ➤ Most recently conducted for 2009
  - ➤ Included 26,961 affiliates by 2,263 U.S. parents



## **Annual Surveys**

- Smaller affiliates do not report
  - If sent a survey, they file an exemption claim that collects only a few data items (sales, assets and liabilities, net income, and identification information)
- Introduced statistical sampling in 2003
  - Every other year, mid-size firms report on "EZ" (easy) form
  - Sampling designed to maintain adequate industry and country coverage



## Maintaining the Sampling Frame

- Firms can enter the FDI universe
  - Acquisition of an existing company
  - Establishment of a new affiliate
- Firms can exit the FDI universe
  - Liquidation
  - Sold to a domestic firm
- Press reports, reports to other government agencies, or purchased mailing lists



## Timeliness and Frequency

- Financial and operating data published annually
  - Release advance summary estimates of MNC operations 16 months after the reference year
    - Global totals for selected data items
  - Preliminary estimates published about 18 months after the reference year
    - Country and industry detail for several items
  - Revised the following year

# Presentation on Services Supplied Through Affiliates

- Sales of services only
- Excludes U.S. cross-border trade, which is recorded in the balance of payments accounts
  - > U.S. affiliates: Sales in the United States
  - Foreign affiliates: Sales to foreign persons
- Majority-owned affiliates only

# Presentation on Services Supplied Through Affiliates (cont'd)

- Classified by primary industry of affiliate
  - > Covers affiliates in all industries
  - Greater detail shown for services industries
- Geographic classification
  - > Foreign affiliates: country of location
  - > U.S. affiliates: country of their ultimate beneficial owner



#### United States Inward FATS Questionnaire

#### PART II - FINANCIAL AND OPERATING DATA OF U.S. AFFILIATE - Continued

#### Section C — DISTRIBUTION OF SALES OR GROSS OPERATING REVENUES

Distribute sales or gross operating revenues among three categories — sales of goods, sales of services, and investment income. For the purpose of this distribution, "goods" are normally outputs that are tangible and "services" are normally outputs that are intangible. When a sale consists of both goods and services and cannot be unbundled (i.e., the goods and services are not separately billed), classify the sales as goods or services based on whichever accounts for a majority of the value. Give best estimates if actual figures are not available.

NOTE — BEFORE COMPLETING THIS SECTION, PLEASE SEE THE INSTRUCTIONS FOR ITEMS 45 THROUGH 50 ON PAGE 25. Insurance companies also see page 26, V.A. for special instructions.

**Utilities and Oil & Gas Producers and Distributors** — To the extent feasible, revenues are to be allocated between sales of goods and sales of services. Revenues earned from the sale of a product (e.g., electricity, natural gas, oil, water, etc.) are to be reported as sales of goods. Revenues earned from the distribution or transmission of a product (e.g., fees received for the use of transmission lines, pipelines, etc.) are to be reported as sales of services.

		Bil.	Mil.	Thous.	Dols.
45.	TOTAL SALES OR GROSS OPERATING REVENUES, EXCLUDING SALES TAXES — Equals item 35, and also sum of items 46 through 48	1 \$			000
46.	Sales of Goods 224	\$			000
47.	Investment income included in gross operating revenues. Include ALL interest and dividends generated by finance and insurance subsidiaries or units.	1 \$			000
48.	Sales of Services, Total — Sum of items 49 and 50	\$			000
49.	To U.S. persons or entities	\$			000
50.	To foreign persons	1			000



#### **United States Outward FATS Questionnaire**

#### Part II — FINANCIAL AND OPERATING DATA OF MAJORITY-OWNED FOREIGN AFFILIATE — Continued

Section B — Distribution of Sales or Gross Operating Revenues — See Additional Instructions for Part II, Section B, on page 10 at the back of this form.

Distribute sales or gross operating revenues among three categories – sales of goods, sales of services, and investment income. For the purpose of this distribution, "goods" are normally economic outputs that are tangible and "services" are normally economic outputs that are intangible. When a sale consists of both goods and services and cannot be unbundled (i.e., the goods and services are not separately billed), classify the sales as goods or services based on whichever accounts for a majority of the value. Give best estimates if actual figures are not available. Insurance companies also see **Special Instructions**, **B.3.d.** and **e.**, **page 12**.

47.	Sales or gross operating revenues, excluding	rotal column (1) equals the sum of columns (2) through (7)  ol- f line als m of (1)  Ril Mil Thous Dole		Local sales		Sales to U.S.		Sales to other countries	
	a. Column (1) equals item 34. b. Each col- umn of line 47 equals the sum of			To other foreign affiliates of the U.S. Reporter(s)	To unaffiliated customers	To U.S. Reporter(s)	To unaffiliated customers	To other foreign affiliates of the U.S. Reporter(s)	To unaffiliated customers
	items 48, 49 and 50.			(2)	(3)	(4)	(5)	(6)	(7)
	und oo.	1		2	3	4	5	6	7
	2054	\$		\$	\$	\$	\$	\$	\$
	SY TYPE Sales of goods 2055	1		2	3	4	5	6	7
49.	Sales of services 2056	1		2	3	4	5	6	7
50.	Investment income 2057	1		2	3	4	5	6	7

#### BEA BUREAU OF FONOMIC ANALYSIS

#### Services Delivered Through Affiliates (2010)

- Supplied to foreign markets by majorityowned foreign affiliates of U.S. firms
  - \$1,131 billion
  - 110% higher than cross-border exports of private services
- Supplied to the United States by majorityowned U.S. affiliates of foreign firms
  - \$696 billion
  - 89% higher than cross-border imports of private services



#### Conclusion

- New international standards provide updated concepts and principles for FATS and FDI
- FATS represents a subset of FDI for those firms owned more than 50% by nonresident investors
- Different approaches can be used for compiling inward FATS and outward FATS
- Priority FATS variables should be attributed by economic activity and by partner country



#### More Information

- MSITS 2010 Chapter IV
- Eurostat 2009 FATS Manual
- OECD Benchmark FDI Definition
- OECD Globalization Manual
- UN web site
  - http://unstats.un.org/unsd/tradeserv/TFSITS
- US BEA web site
  - www.bea.gov/international