

Measuring trade in services Concepts and definitions

Training Workshop on Trade in Services Negotiations for AU-CFTA Negotiators Nairobi, Kenya

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Agenda

- 1. Trade in services statistics and negotiations
- 2. International guidelines on measuring trade in services by mode of supply
 - Balance of Payments
 - Foreign AffiliaTes Statistics (FATS)
 - Statistics on the international supply of services by mode
- 3. WTO Integrated Trade Intelligence Portal (ITIP)

Trade in services statistics in the WTO Why statistics are needed





comparisons



dispute

settlement

WTO OMC

Trade in services statistics in the WTO What do we need to measure?

The <u>value</u> of international trade in services (+ some additional indicators)

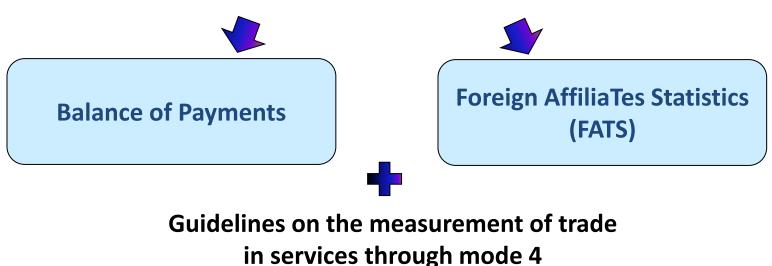
- By service sector
- By mode of supply
 - Mode 1: cross-border supply
 - Mode 2: consumption abroad
 - Mode 3: commercial presence
 - Mode 4: presence of natural persons
- By trading partner
- By relationship between the parties

Ideally!

International guidelines **MSITS**



Guidelines and recommendations on the measurement of international trade in services by modes of supply



http://unstats.un.org/unsd/publication/Seriesm/seriesM_86Rev1e.pdf

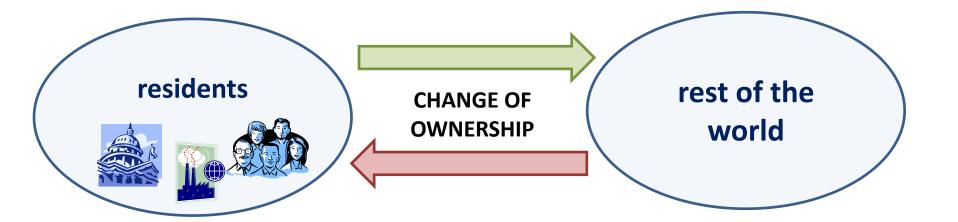


BALANCE OF PAYMENTS



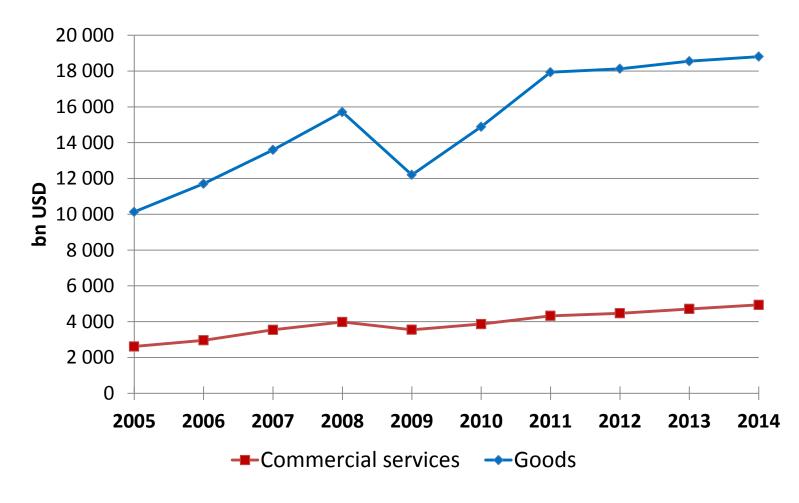
Balance of Payments (BoP) Statistical framework

the BoP summarizes the transactions between residents and non-residents of an economy





Balance of Payments (BoP) World trade in BoP terms, 2005-2014



Source: WTO Secretariat



Balance of Payments (BoP) IMF BoP Manual 6th edition (BPM6)

New BoP manual takes into account revisions in the System of National Accounts (SNA 2008)

- reclassification of some goods and services items
 strict application of the change of ownership criterion
- better estimation methodologies
- new information needs
 - outsourcing
 - e-commerce





Balance of Payments (BoP) BPM5 vs BPM6: orientation guide

- Many economies still compile their BoP data according to BPM5
- The new recommendations are implemented gradually



Problems of comparability and aggregation

- There is a correspondence table between BPM6 and BPM5 (approximate conversion)
- WTO publishes 2 datasets:
 - BPM5 format: 1980-2013
 - BPM6 format: 2005-onwards



Balance of Payments (BoP) Services account (BPM6)

Total services

- manufacturing services on physical inputs owned by others
- 2. maintenance and repair services n.i.e.

Goods-related services (new with BPM6)!

- 3. transport
- 4. travel



Balance of Payments (BoP) Services account (BPM6) – cont'd

Other services

- 5. construction
- 6. insurance and pension services
- 7. financial services
- 8. charges for the use of intellectual property n.i.e.
- 9. telecommunication, computer and information services
- 10.other business services
- 11.personal, cultural and recreational services
- 12.government goods and services n.i.e.

ИТО ОМС

Balance of Payments (BoP)

African reporters by BoP item, 2012

	EXPORTS	IMPORTS
Total services	49	49
Manufacturing services	7	4
Maintenance services	10	16
Transport	45	46
Travel	44	46
Construction	23	35
Insurance and pension services	38	45
Financial services	34	36
Charges for the use of intellectual property nie	22	33
Telecommunications, computer and information services	43	42
Telecommunications	37	35
Computer services	19	23
Other business services	40	42
Personal, cultural and recreational services	27	30
Audiovisual and related services	14	14
Government goods and services nie	40	44



Balance of Payments (BoP) Extended BoP services classification

- Product classification
- Consistent with BPM6 items, but more detailed
- Correspondence between EBOPS, GATS services components W/120 and CPC
 - in the manual (CPC 1)
 - online (CPC 2 provisional)

http://unstats.un.org/unsd/tradeserv/tfsits/msits2010/ebop s2cpc.htm

FOREIGN AFFILIATES STATISTICS (FATS)





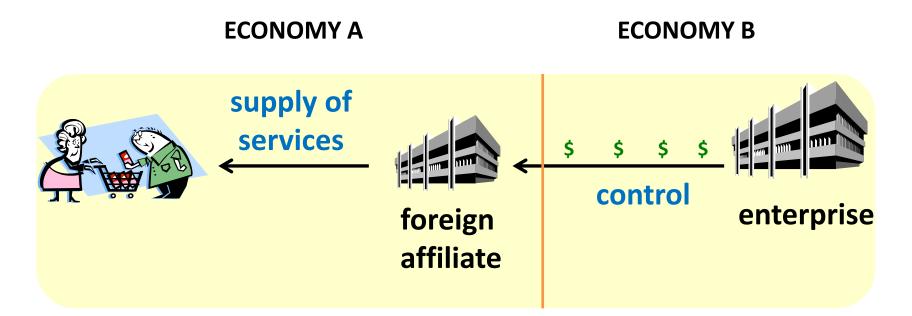
FATS Introduction

- Why do we need FATS?
 - measuring mode 3 (commercial presence)
 - understanding globalization
- What do FATS measure?
 - different indicators of the activity of controlled foreign affiliates
 - focus on services





Summary of the statistical framework



INWARD FATS

resident enterprises of the reporting country controlled by foreign investors

OUTWARD FATS

enterprises controlled by domestic investors and located abroad



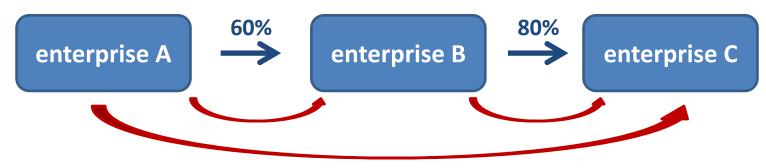
FATS What is "control"

Definition of control in the GATS:

power to name a majority of its directors or otherwise to legally direct the actions of the affiliate

Statistical criterion:

majority ownership (control of more than 50 per cent) of the voting power at each stage of the chain of ownership





FATS

Economic variables

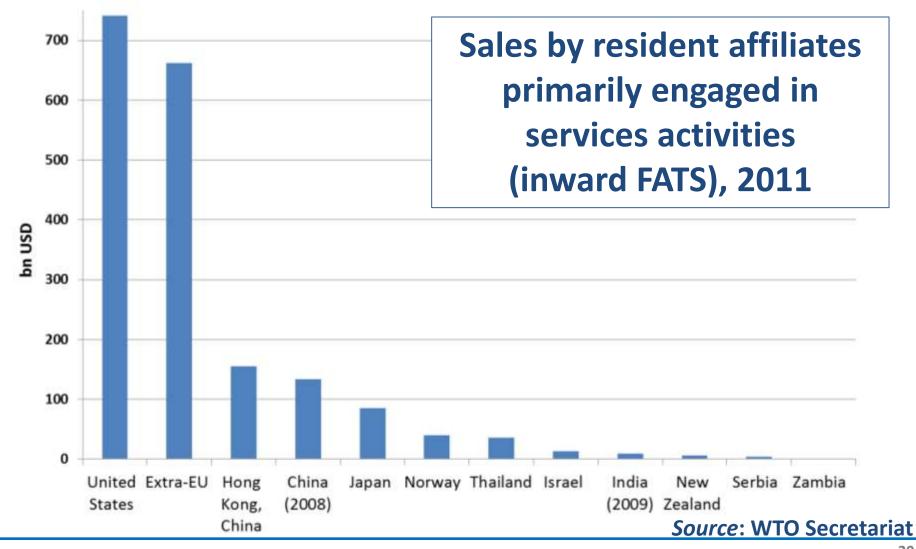
- Basic variables:
 - Turnover/production
 - Employment
 - Number of enterprises
 - Value added
 - Exports and imports of goods and services
- Additional variables:
 - Assets
 - Compensation of employees
 - Net worth
 - Net operating surplus
 - Gross fixed capital formation

- ...

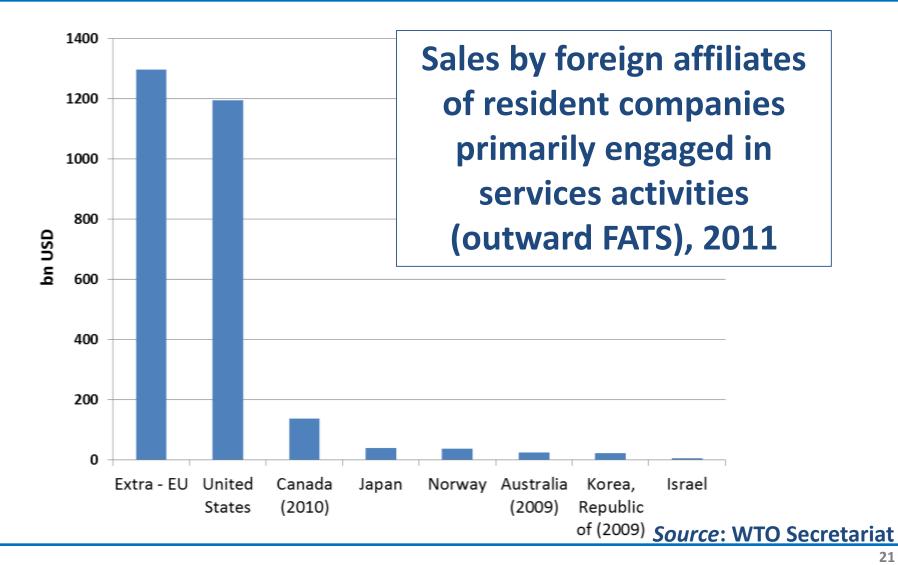


Supply of services through mode 3

FATS



FATS Supply of services through mode 3



WTO OMO



FATS Activity breakdown

• Breakdown by activity: IFCA, Rev.1

(ISIC, Rev.4 Categories for Foreign Affiliates in services -International Standard Industrial Classification of All Economic Activities)

- covers all activities (goods and services)
- more detail on services
- approximate measure (classification by main activity)
- Correspondence between IFCA and EBOPS (limited) — comparison with BoP data should be carried out with caution
- Long-term objective: product breakdown (sales, exports and imports)



FATS Inward FATS of Zambia

Inward Foreign Affiliates by Recipient Sector (USD million), 2012

	AGRICULTURE	MINING & QUARRING	MANUFACT- URING	SERVICES
Sales	150.3	6,189.0	2,987.1	1,207.7
Employment (units)	3,647	31,406	12,148	8,367
of which: management	18	940	600	1,363
Total exports of goods	60.2	4,576.7	2,249.8	536.1
of which: exports of goods to foreign affiliates	8.9	1,220.6	289.4	-
Total exports of services	-	-	0.1	22.9
of which: export of services to foreign affiliates	-	-	0.1	0.2
Research and Development Expenditures	1.0	22.3	0.0	0.0
Net Operating Surplus	-0.7	543.5	324.5	224.1
Value-added	141.0	2,825.0	764.0	399.9
and more!				

Source: Bank of Zambia

FATS



Foreign affiliates vs domestic firms: HK

Number, employment and value added of majority-owned foreign affiliates in Hong Kong, 2012 (financing and insurance, real estate, professional and business services sector)

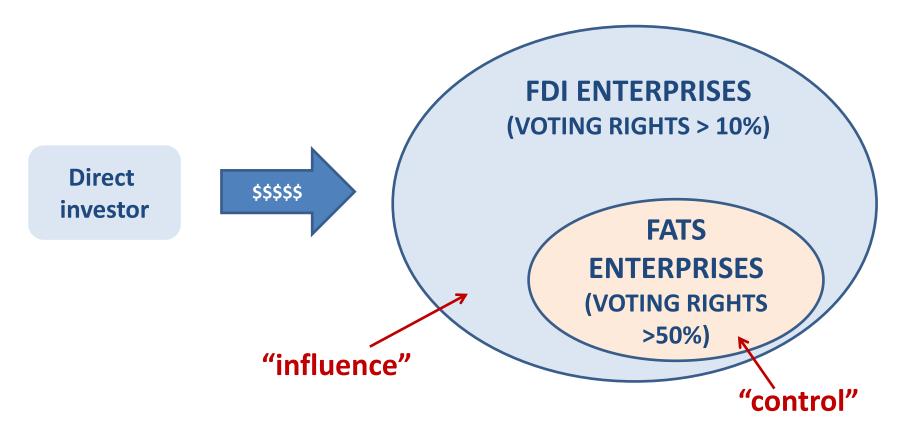
	Majority owned enterprises	% of total economy
No. of establishments	2400	4.5%
Employment (thousands)	298	41.9%
Value added (HK\$ bn)	301.9	54.7%

Source: Census and Statistics Department, Hong Kong (China)



FATS vs FDI Enterprises covered

FDI: reflects the objective of a resident investor to establish a lasting interest in a foreign company





FATS vs FDI Variables measured

- **FDI**: (international) transactions between investors and direct investment enterprises => BoP
 - FDI stocks and flows
 - investment income
- FATS: activities of the foreign affiliates
 - turnover/production, employment..

FDI and FATS contain COMPLEMENTARY information

STATISTICS ON THE INTERNATIONAL SUPPLY OF SERVICES BY MODE





GATS definition of "natural person"

individual <u>temporarily</u> present in the territory of an economy other than his own to provide a commercial service

- contractual service suppliers
 - self-employed

Mode 4

- employees of a foreign service supplier
- intra-corporate transferees
- foreign employees directly recruited by foreign established companies
- people on business trips (to establish contractual relationships for a service contract, to set up commercial presence...)



1. VALUE of the service supplied





2. NUMBER of natural persons



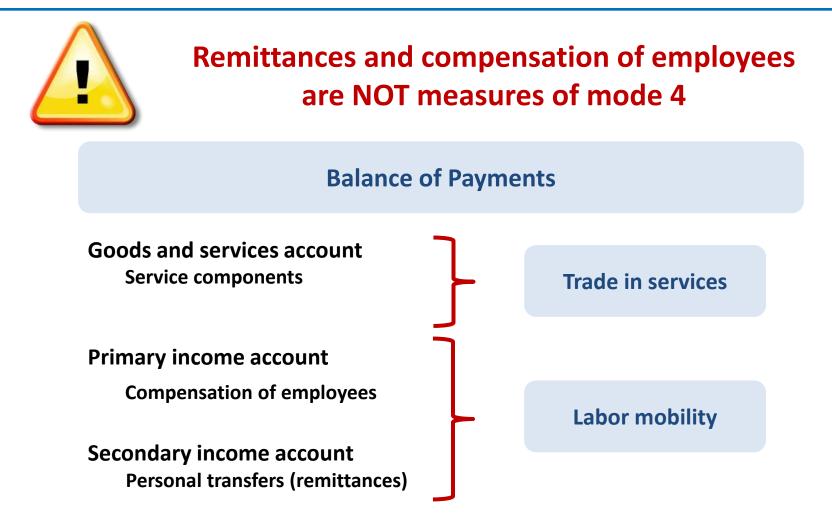


Mode 4 Statistical treatment

	VALUE	NUMBER
Contractual service providers - self-employed - employees of a foreign service sup	oplier YES	YES
intra-corporate transferees	NO	YES
foreign employees directly recruited by foreign established companies	' NO	YES
people on business trips	NO	YES

Mode 4 Labor mobility vs mode 4







Value of trade in services by mode Ad hoc surveys: India

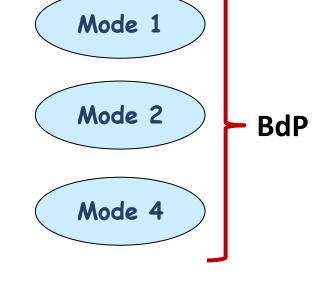
Software exports by mode

	2009-10	2010-11	2011-12	2012-13	2013-14
Mode 1					
(cross-border supply)	64.6	67.4	69.0	74.7	69.0
Mode 2					
(consumption abroad)	0.0	0.1	0.5	1.6	0.1
Mode 3					
(commercial presence)	17.6	14.8	15.4	9.4	13.7
Mode 4					
(presence of natural person)	17.8	17.7	15.1	14.3	17.1

Source: Reserve Bank of India

Value of trade in services by mode **Simplified allocation**

- Existing statistics are not broken down by mode of supply
- A simplified attribution is recommended (as a starting point) by predominant mode
- This approach provides a reasonable approximation, not a precise measure









Value of trade in services by mode Simplified allocation – in more detail

MODE 1

Transport Telecommunications Information services Financial services

...

MODE 2

Travel (only the services acquired) Manufacturing services on physical inputs owned by others Maintenance and repair services n.i.e

...

MODE 4

Services incidental to mining, oil and gas extraction

...



INTEGRATED TRADE INTELLIGENCE PORTAL (I-TIP)

ITIP services



Comprehensive information on services

WORLD TRADE ORGANIZATION



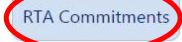


I-TIP Services is a joint initiative of the World Trade Organization and the World Bank. It is a set of linked databases that provides information on Members' commitments under the WTO's General Agreement on Trade

databases that provides information on Members' commitments under the WTO's General Agreement on Trade in Services (GATS), services commitments in regional trade agreements (RTA), applied measures in services, and services statistics.



The module on GATS contains information on the Members' market access commitments and exemptions to the obligation of most-favoured-nation (MFN). More...



The RTA module allows to access and search for information on Members' commitments in regional trade agreements notified under Article V of the GATS. Currently, the database covers a good proportion of services RTAs (<u>see list</u> <u>attached</u>). More...

Applied Regimes

The Applied Regimes module provides information on applied measures affecting access to markets and conditions of operation by foreign service suppliers. More...

Reports

This module provides summary reports in relation to specific commitments and MFN exemptions under the GATS, commitments in RTAs, and changes in applied policies. Statistics

The Services Statistics module accompanies the GATS, RTA and Applied regimes modules by providing relevant trade in services and related statistics. More...

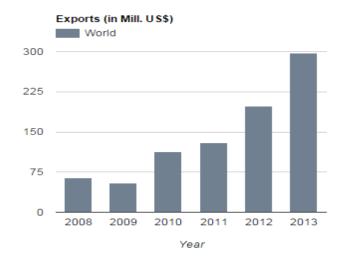


ITIP services – statistics module **1. selection of members and sectors**

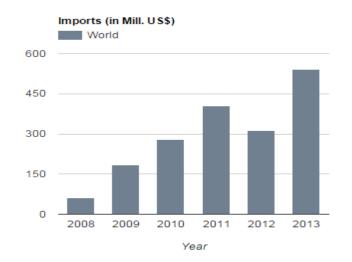
World Organiz	TRADE ZATION		E ORLD NK				
Home GATS	RTA Commitments	Applied Regimes	Reports	Statistics	User Guide		
SEARCH CRITERIA							
— Member	5						
All Memb	ers					-	
- Sectors							
All Sector	2						
× Clear						See the list of	sector-specific indicators available

ITIP services – statistics module **2. BoP statistics**









Destant		De terre	Value (Mil.US\$)			% in total	% in world -				
		Partner	2011	2012	2013	services - 2013	2013	2005 - 2013	2012	2013	
	Ex	(ports (i)									
		Other business services 🛈									
		World	129.85	197.48	297.29	13.7	100.0	39	52	51	i
		Computer services (i)									
		World	45.66	56.64	77.39	3.6	100.0	11	24	37	i
1		~		· · · · · · · · · · · · · · · · · · ·			1			1	50



ITIP services – statistics module **3. FATS**

Membe Sector		ambia - COMMUNICATION SERVICES							<u>Modify S</u>	iearch
Stati		· 7						ervices profile	<u>Statistics dat</u> <u>Trade p</u>	
	Member	· Zambia						avices prome		
	W/120 sector	2 COMMUNICATION SERVICES	•	E	xport results	s: <u>Charts (PDF</u>)		<u>Tables (E</u>	<u>(xcel</u>
	w import/expo lide Foreign Af	rt filiates Statistics (FATS)								
				Value % in total				n		
		Indicator	2010	2011	2012	services - 2012	2005 - 2012	2011	2012	
. I	Information ar	nd Communication (i)								
×.	FATS inwar	d								
	Sales / Turnove	r (Mil. US\$) 🚺		602	500	41.4			-17	
	No. of employe	es (i)		1 155	1 202	14.4			4	



ITIP services – statistics module 4. FDI







ITIP services – statistics module 5. Value added and employment

	otswana I Sectors							<u>Modify S</u>	<u>earch</u>
S TATISTICS								Statistics da	tabase
Member	Botswana					Se	ervices profile		
W/120 sector	3 CONSTRUCTION AND RELATED ENGINE	RING SEI 👻	E	xport results	s: <u>Charts (PDF</u>	Ĵ		<u>Tables (E</u>	Excel)
No FATS data to displa • Hide other indicat	iliates Statistics (FATS) y ors ect Investment (FDI)								
	* P .		Value		% in total	,	Average growtl	ı	
	Indicator	2010	2011	2012	services - 2012	2005 - 2012	2011	2012	
Construction)								
Value added (mill. U	JS\$)	744	914	981		11	23	7	i
Employment (thous	ands)	37							



ITIP services – statistics module 6. Quantitative indicators

STATISTICS



No FATS data to display

- Hide other indicators
- Hide Foreign Direct Investment (FDI)

No FDI data to display

Show value added & employment

Hide sector specific indicators

Telderber		Value		Average growth		
Indicator	2012	2013	2014	2005 - 2014	2013	2014
Maritime registered merchant fleet (number of ships) (i)	373	374			0	
Maritime registered merchant fleet ('000 DWT) (i)	3 695	3 600		(i) 23	-3	
Maritime owned merchant fleet: total (number of ships) (i)			241			
Maritime owned merchant fleet: total ('000 DWT) (i)			5			
Container port throughput ('000 TEUs) (i)	111					
Liner shipping connectivity index (i)	21.8	21.4	22.9	7	-2	7
Passengers by air (mill. P-Km) (i)	3 596	2 478			-31	
Intl. passengers - By air (mill. P-km) 🚺	1 736	940			-46	

Export results: Charts (PDF)

Statistics database

Services profile Trade profile

Tables (Excel)



Where to find more information

https://www.wto.org/english/res_e/statis_e/statis_e.htm contact: statistics@WTO.org

http://i-tip.wto.org/services/ contact: i-tip_services@wto.org