

"Statistics of International Trade in Service: Challenges and Good Practices" Regional Workshop for South-East Asian Countries

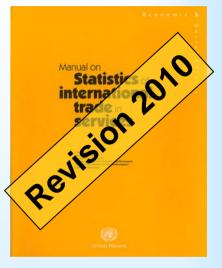
Measuring Trade in Services by GATS Modes of supply

Hanoi, Vietnam, 30 November – 3 December 2010

Chapter V in MSITS 2010

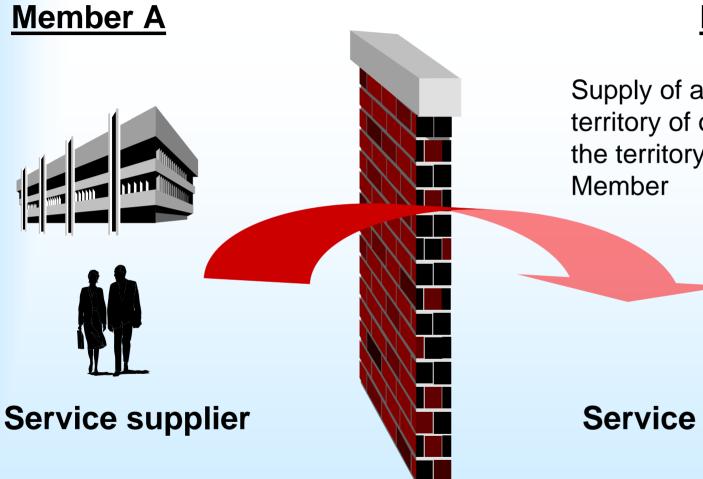
- Defines GATS modes of supply
- Clarifies Mode 4 coverage in statistical frameworks
- Identifies relevant information needs for measuring modes of supply
- Proposes a simplified approach to allocate the value of services transactions to modes of supply
- Identifies additional indicators for the analysis of international trade in services







The 1st Mode of Supply



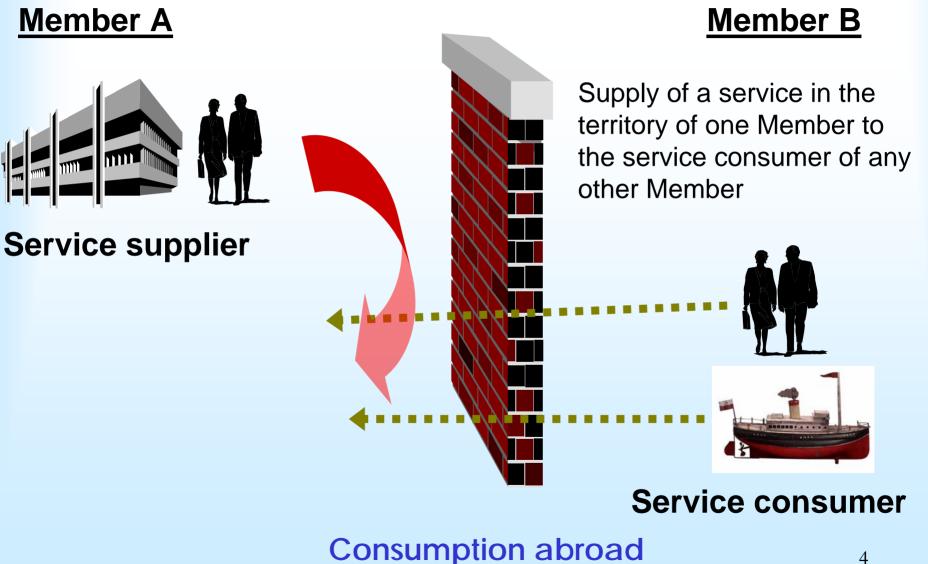
Member B

Supply of a service from the territory of one Member into the territory of any other

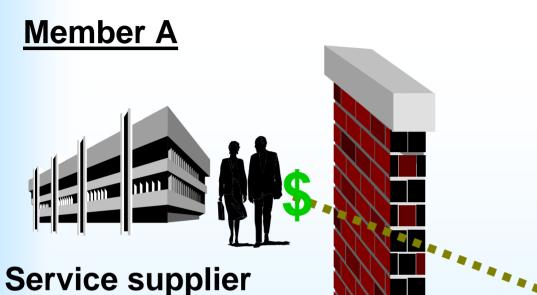
Service consumer

Cross-border supply

The 2nd Mode of Supply



The 3rd Mode of Supply



Member A

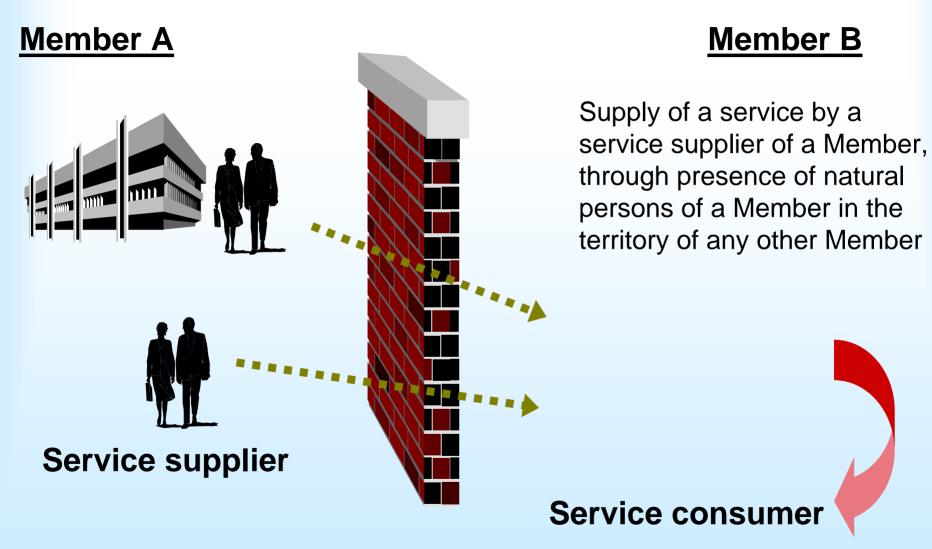
Member B

Supply of a service by a service supplier of one Member, through commercial presence in the territory of any other Member



Commercial presence

The 4th Mode of Supply



Presence of natural persons

The Presence/Movement of Natural Persons



GATS

- Main text: mode $4 \rightarrow \text{presence}$ of natural persons

In GATS Main Text and Annex

Purpose of stay Fulfilling <u>directly</u> a service contract, as service supplier (self-employed) or as an employee

Indirectly: Presence *instrumental* to supply of service: through commercial presence or supply at a later stage



Temporary

Measures regarding citizenship, migration, residence and permanent employment are not covered

Who's in and Who's out?



Falling under Mode 4	Not falling under Mode 4
Supply of services	 Employees in the "goods" sector
All skill levels	 No skill excluded
Contractual service suppliers -Self-employed service suppliers	 Employees of host country firms
– Employees of foreign service supplier	
Intra-corporate transferees	
Services sellers	
Temporary movement	 Permanent migration





What is "temporary"?

- GATS does not define "temporary"
 - In WTO Members' schedules of commitments
 - Between **3 months 2 to 5 years** (service sellers) (intra-corporate transferees)

In international statistical standards (BPM6, SNA, migration, tourism)

- **One-year rule**
- → distinction between residents/non-residents

Statistics on residents also include



Mode 4 service suppliers



Contractual service suppliers

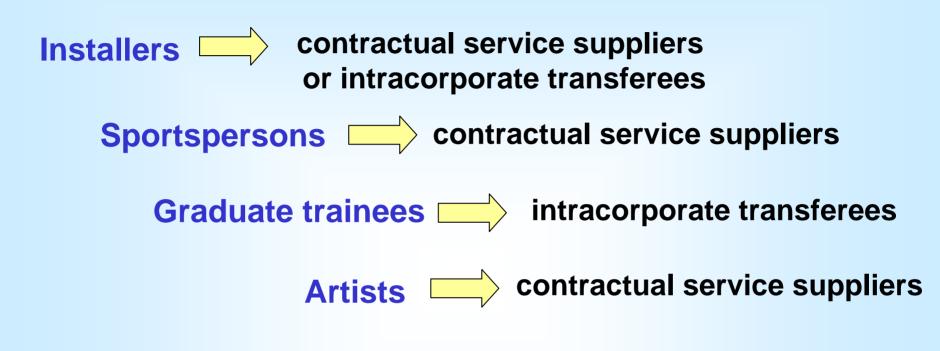
- Self-employed (independent) service suppliers
- Employees of foreign service suppliers

Intra-corporate transferees and foreign persons directly recruited by the foreign affiliate

Services sellers / Persons responsible for setting up commercial presence

But in WTO members' schedules...





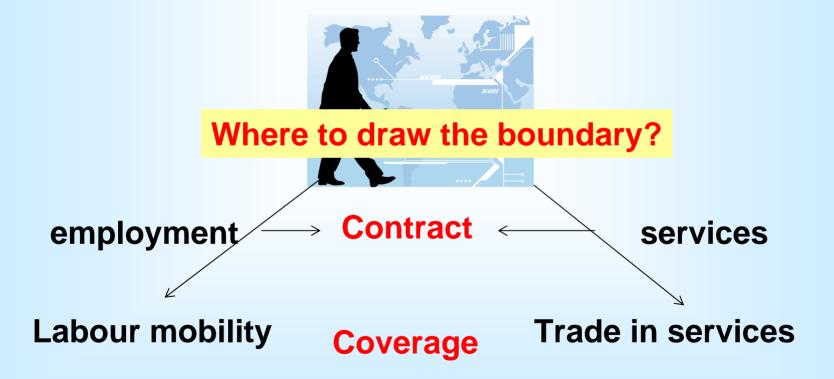
Areas of uncertainty

- what does constitute a service?
- difference between employment and service contract
- Self-employed or employee?

Movement of persons

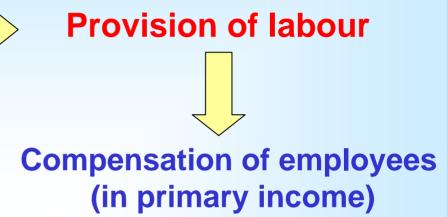
- Employment opportunities
- Income prospects
- Improved technology



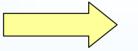


Service provision or provision of labour?

Person works for a remuneration in cash or kind (employment relationship)



Person contracted to produce a given result





Services transactions (in current account)





or employee?

- Operates own enterprise
- Makes own decisions
- Owns or rent machinery or work equipment
- Pays own social security contribution
- Pays taxes on the provision of service
- Remuneration depends on the profits made



In what modes are the following services supplied?



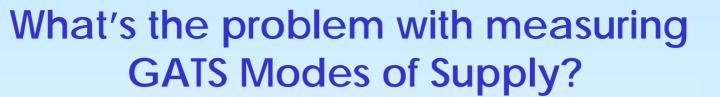
- Temporary presence of independent professional accountant to provide accounting services in country B
- Establishment of a branch in B of an insurance company from country A
- Services consumed by a business traveller of A while travelling abroad
- Provision of medical advice by an expert team in country A to physicians carrying out by-pass surgery in country B



In what modes are the following services supplied?



- A dentist from B offers treatment in a practice he owns in A
- An airline company from A has its plane repaired while stationed in country B. The crew stays in a hotel in B while the plane is being repaired.
- A cook from A opening his own restaurant in country B
- A banker from C sent by a bank of A to work in B





Intermodal linkages

Services may be delivered through

several modes of supply





A single service transaction through different modes





Statisticians

Trade Negotiators

Filling the gap....





What do we need to measure?

1) Value of services trade flows

2) Additional indicators





Value of services trade

- By type of service product (by activity)
- By direction of the supply (origin/destination)

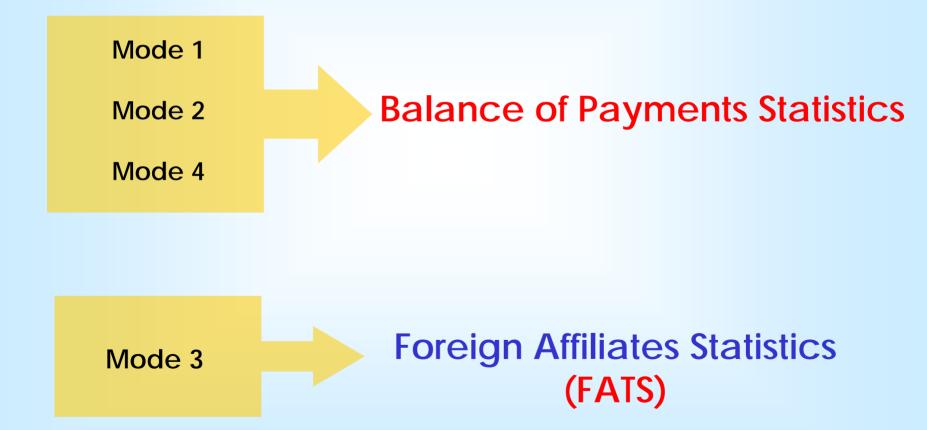
and

•By relation between the parties



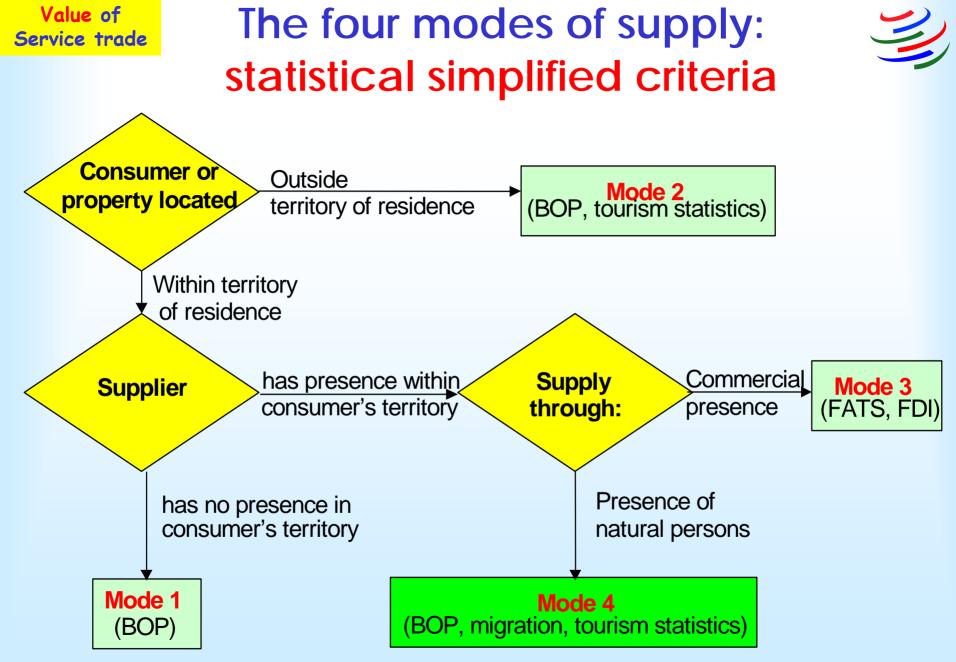
GATS Modes of Supply and Statistical Domains: The simplified approach





In Mode 4, for which categories should we measure the value of services trade?

Natural persons	Value of service trade flows
Contractual services suppliers	
-Self-employed	Yes
-Employees of foreign service suppliers	
Intra-corporate transferees and directly recruited by foreign affiliate	Νο
Services sellers -	
Persons responsible for setting up commercial presence	No



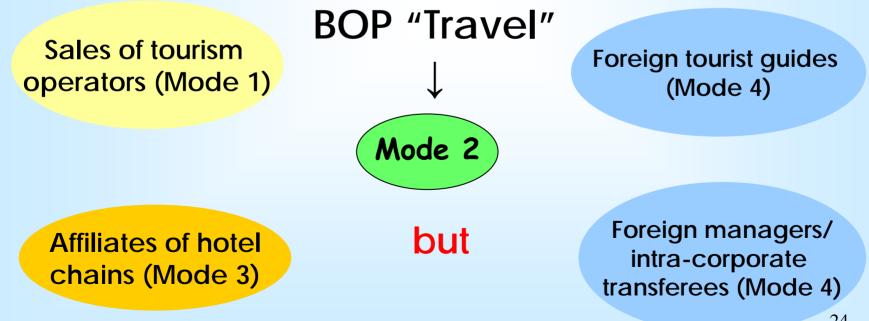




GATS GNS/W/120

- Hotels and restaurants
- Travel agencies and tour operator services
- Tourist guide services
- Other services

4 modes of supplying services





Services predominantly delivered through



- Transportation services
- Telecommunications services
- Information services
- Insurance and pension services
- Financial services
- Charges for the use of intellectual property n.i.e
- **Operational leasing** (in "Other business services")
- Trade-related services (in "Other business services")
- Travel (only services acquired)
- Supporting and auxiliary services to carriers in foreign ports (in Transport)
- Maintenance and repair services n.i.e.
- Manufacturing services on physical inputs owned by others





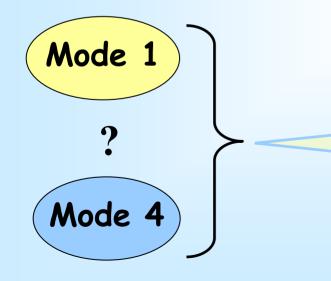
Simplified allocation of BPM6/EBOPS services items to Modes of Supply

Services predominantly delivered through



- Services incidental to agriculture and mining
- Services incidental to mining, and oil and gas extraction

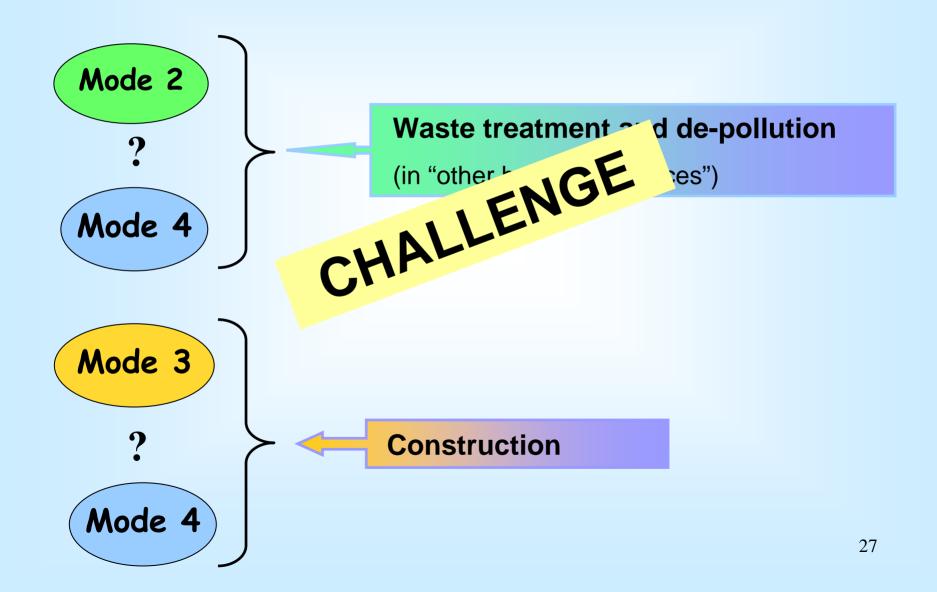
But for services delivered through 2 modes of supply:



- Computer services

- Professional and management consulting services (in Other business services)
- Architectural, engineering, scientific and other technical services (in Other business services)
- Personal, cultural and recreational services





Simplified allocation of FATS and EBOPS data to modes of supply (1/2)

	FATS (sales or output) *	Balance of payments trade in services					e in
	Mode				Mode(s)	
	3	1	2	4		-	4 3 and 4
Manufactacturing serv. on inputs owned by others	X		- X	•	T and		
Maintenance and repair services n.i.e.	X		X				
Transport	X	Х	Λ				
Passenger	X	X					
Freight	X	x					
Post and courier services	X	x					
Other	Х						
– Serv. to domestic carriers in foreign ports (and vice-versa)	Х		Х				
- Other	Х	Х					
Travel			Х				
Goods							
Local transport services			Х				
Accommodation services			Х				
Food-serving services			Х				
Other services			Х				
Construction	X						X
Goods							
Services	Х						Х
Insurance and pension services	Х	X					
Financial services	Х	X					
Charges for the use of intellectual property n.i.e. **	Х	Х					

* In territory where affiliate established. If not possible to breakdown by EBOPS 2010 product, by activity using ICFA Rev.1

** Certain degree of uncertainty regarding certain charges

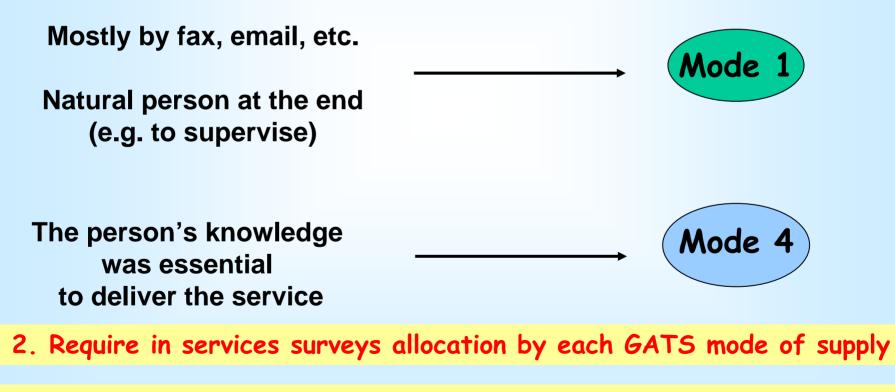
Simplified allocation of FATS and EBOPS data to modes of supply (2/2)

	FATS	Balance of payments trade in services					e in
	(sales or						
	output)						
	Mode				Mode(s	5)	
	3	1	2	4		2 and 4	3 and 4
Telecom., computer, and information services	Х				Х		
Telecommunications services	Х	х					
Computer services	Х				Х		
Information services	Х	Х					
Other business services	X				X		
Research and development services	Х				Х		
 Professional and management consulting services 	Х				Х		
Technical, trade-related and other business services	Х					ALLE	.C.V
 Architectural, engineering, scientific, other technical serv. 	Х				Х		NU
-Waste treatment -depollution, agri. and mining services	Х						
 Waste treatment and de-pollution 	Х						
 Services incidental to agriculture, forestry and fishing 	Х			Х		AV	
 Serv. incidental to mining, and oil and gas extraction 	Х			Х	CX		
 Operational leasing services 	Х	Х			U.		
 Trade-related services 	Х	Х					
 Other business services, n.i.e. 	X				Х		
Personal, cultural and recreational services	Х				Х		
Government goods and services n.i.e.							
Government goods n.i.e., Credits and debits							
Government services n.i.e., Credits							
Government services n.i.e., Debits							
 Commercial services purchased in host economies 							
 Government units in diplomatic and similar enclaves 					Х		
 Personnel from home economy and dependants 			Х				
 Other commercial serv. n.i.e purchased by government 					Х		
 Non-commercial services acquired by government 							
Distribution (wholesale, retail trade) services	Х	Х					

Options to assess Modes of supply in surveys

1. Did the service delivery involve physical presence of service provider?

Yes? Then, how was most of the service value provided (time/resources)?



3. Require estimated share of services inputs for Mode 4 services trade



...and if the self-employed services supplier

stays abroad for more than one year?

Resident of the host economy

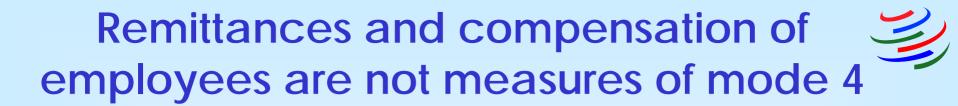
If sends part of money home (in BOP remittances)

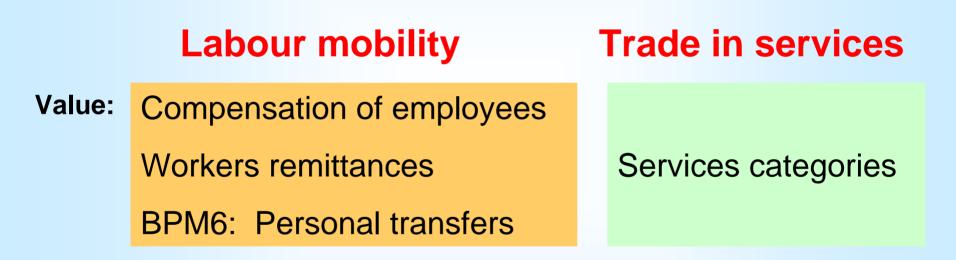
Normally small proportion of Mode 4 persons

Supplementary information from BPM6 linked to GATS Mode 4

- Contractual service suppliers (self-employed and employees) Abroad for less than 1 year • Service sellers/Persons responsible for setting up commercial presence Their expenditure in host country Intracorporate transferees in BOP "Travel" Contractual service suppliers Abroad for more than 1 year (employees only) Intracorporate transferees **Compensation from employer** in BOP "Compensation of employees" If money sent home "Workers' remittances"

Nothing to do with service trade flows!







Sales of Services by GATS Modes of Supply: 2005 Statistical Approximation

Mode of Supply	Estimated share
1 - cross-border supply	25-30%
2 - consumption abroad	10-15%
3 - commercial presence	55-60%
4 – presence of natural persons	less than 5% Approx. 150 billion USD

Source: WTO estimates.

The size of mode 4 trade?



- Small compared to total trade, and to other modes of trade in services (is the most restricted)
- Importance varies across countries and sectors
- Mobility for skilled workers increasing and facilitated by special programs
- Both developed and developing countries are traders where mode 4 can be involved





Indian International Trade in Computer Services, IT Enabled Services and BPO by Mode of Supply, 2007-08

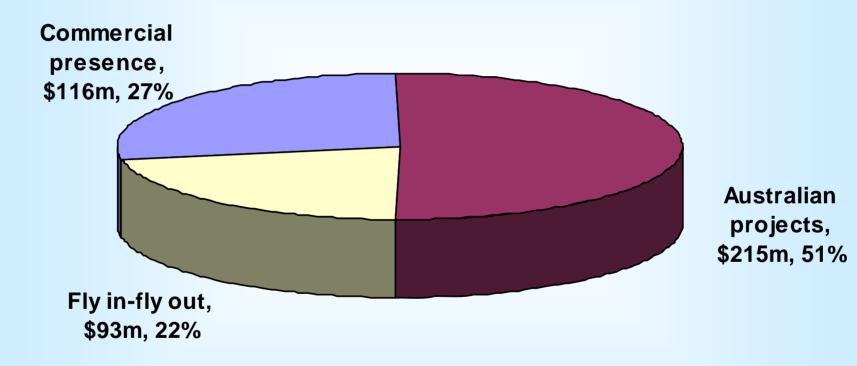
Size of Transactions			Amoun	t (million l	JSD)		Per cent Share in Total			
(million USD)	Мос	le 1	Mode 2	Mode 3	Mode 4	Total	Mode 1	Mode 2	Mode 3	Mode 4
< 0.2		49	0	5	1	56	87.2	0.9	9.3	2.7
0.2-2		455	7	47	28	537	84.6	1.4	8.8	5.2
2-20	2	2042	63	256	91	2451	83.3	2.6	10.4	3.7
> 20	21	863	185	5291	10038	37378	58.5	0.5	14.2	26.9
Total	24	408	256	5599	10159	40422	60.4	0.6	13.9	25.1

Source: Reserve Bank of India (2009), *Survey on Computer Software & IT Services Exports: 2007-08.* (converted to US dollars by the WTO Secretariat).





Australia's legal services export income by mode of supply, 2006-07 (million USD and percentage)



Additional indicators to analyze trade in services



on Mode 3 (FDI and FATS)

- FDI stocks and flows in services
- number of foreign affiliates, of employees, value of assets (FATS).

on Mode 4:

Number (stocks and flows) of:

- Contractual services suppliers
- Intracorporate transferees and foreigners directly recruited
- Services sellers/persons responsible of setting up commercial presence

For which categories should we measure the number of mode 4 persons?

Natural persons	Number of persons
Contractual services suppliers -Self-employed	Yes
- Employees of foreign service suppliers <i>Intra-corporate transferees and</i> <i>directly recruited by foreign affiliate</i>	Yes
Services sellers - Persons responsible for setting up commercial presence	Yes (less important)

Mode 4, migration, tourism statistics (1/2)

	Length	of stay of in		
Purpose of trip or migration	Less than 3 months	3 to 12 months	more than 12 months	
IRTS 2008 categories				
Visitors				
Personal				Cotogorian of
Holiday, leisure and recreation				Categories of
Visiting friends and relatives				the UN Recom-
Education and training				mendations
Health and medical care				on Statistics of
Religion/pilgrimages				International
Shopping				Migration, revision 1
Transit entering eco./legal territory				
Other				Non-Migrant
Business and professional			-	categories
(no employer-employee relationship with entity established in compiling economy)	Х		Х	Migrant
Contractual service supply:	Х		х	categories
- self-employed	Х		х	
- employed	Х		х	
Intra-corporate transfer:			х	
- in services producing company	Х			
- other				
Serv. salespersons/ commercial pres. negotiation				
- serv. salespersons/ commercial pres. of	Х	Σ.	Х	
serv. producing company negotiation				
- commercial pres. of goods producing company negotiation				40
Other (incl. attending meetings, conferences, etc)				10

atean

RAV 1

RSIM

Mode 4, migration, tourism statistics (2/2)

		Length	of stay of in	dividuals	
	Purpose of trip or migration	Less than 3 months	3 to 12 months	more than 12 months	
ories	Employment (migrant workers, employment-based settlement) Intra corporate transfer: - in services producing company - other	х		Х	Categories of the UN Recom- mendations on Statistics of International
categories	Directly recruited by a foreign established: - services producing company - other International civil servants	Х		Х	Migration, revision 1: Non-Migrant categories
Rev.1	Other Trainees Family reunification/formation Family based settlement; Ancestry based settlement				Migrant categories
RSIM	Retiree settlement Entrepreneurs and investors settlement a Humanitarian reasons (refugees, etc.) Border workers; Frequent border crossers; Nomads Transit not entering economic/legal territory Diplomatic/consular personnel; Military personnel	х		X	

Arrivals for business and professional purposes, selected economies, 2006 (thousands)

United Kingdom	9 717	Canada	2 651
Spain	6 084	Saudi Arabia	1 603
United States *	5 569	Japan	1 523
China **	5 548	Brazil	1 410
Poland	4 240	Australia	1 218
Hong Kong, China	3 862	Argentina	599
Russian Federation	3 233	Chile	442
Ukraine	3 040	South Africa	324
Singapore	2 925	Morocco	164

Source: UNWTO(2008); * Excluding Mexico ** Excluding Hong Kong, China, Chinese Taipei and Macao and overseas Chinese.

RECOMMENDATIONS OF MSITS 2010 To measure modes of supply



- FATS: Mode 3; BOP essentially to Modes 1,2, and 4 (except construction); BOP construction to modes 3 and 4;
- Each BOP service transaction to the dominant mode;
- Allocate services transactions to modes of supply according to EBOPS. If not possible allocate the 12 main BPM6 categories and the estimate of distribution services;
- Estimate distribution services;
- Other indicators for analysis, e.g.: Number of persons for mode 4 for all categories (migration/tourism statistics).