



Wir bewegen



Informationen



Die Informationsmanager

**24th Voorburg Group Meeting
Oslo 14-18 September**

***Revisited Sector paper on Air
transport***

SPPIs

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17.09.2009

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ISIC 51 Air transport



Voorburg Group History



1995 (Voorburg): Presentation of an European-wide study on transport activities

2003 (Tokyo) : Mini presentations UK, Sweden, Austria
Summary by Sonia Collins

2004 (Ottawa) : Principal Paper Statistics New Zealand
(Sonia Collins)
Methodological description U.S. Bureau of Labour
Statistics (William J. Page)

Countries collecting prices and/or turnover information for air transport

According to the VBG inquiry:

ISIC 5110 Passenger Air Transport:

- SPPI: 14
- Turnover: 17

ISIC 5120 Freight Air Transport:

- SPPI: 10
- Turnover: 17

Countries developing or having developed SPPIs for air transport

According to the OECD inquiry :

28 Countries: AUS, AUT, BEL, BGR, CYP, CZE, DEU, DNK, ESP, EST, FIN, GBR, GRC, HUN, JPN, KOR, LTU, MEX, NLD, NOR, NZL, POL, SVN, SWE, USA, HKG, VNM

Price Collection: Quarterly: 17
Monthly: 15

Pricing Method: Unit Values: 7
Prices of repeated services: 21
Contract pricing: 4

Countries developing or having developed SPPIs for air transport (cont.)

According to the OECD inquiry:

Type of index:

- B2b: 12
- B2all: 22

Availability:

- Publishing the index: 11
- Development phase: 6

Definition of service being priced

Air transport

ISIC Rev. 4: Code 51

NAICS 2007 : Code 481

ANZSIC 2006: Code 4900

NACE Rev. 2: Code 51

This division includes:

- the transport of passengers or freight by air or via space.

This division excludes:

- the overhaul of aircraft or aircraft engines (see class 3315) and support activities, such as the operation of airports, (see class 5223).
- activities that make use of aircraft, but not for the purpose of transportation, such as crop spraying (see class 0161), aerial advertising (see class 7310) or aerial photography (see class 7420)

Industry Classification

ISIC Rev.4	Title	NAICS 2007	Title	ANZSIC 2006	Title	NACE Rev.2	Title
51	<i>Air transport</i>	481	<i>Air Transportation</i>	490	<i>Air and Space Transport</i>	51	<i>Air transport</i>
511	Passenger air transport	4811	Scheduled Air Transportation	4900	Air passenger transport	51.1	Passenger air transport
512	Freight air transport	4812	Non-Scheduled Air Transportation		Air freight transport	51.2	Freight air transport and space transport
					Aircraft charter, lease or rental, with crew, for freight and/or passengers		

Product Classification

CPC Ver.2	Title	NAPCS (Provisional)	Title	CPA 2008	Title
51	<i>Air transport</i>	481	<i>Air Transportation</i>	51	<i>Air transport services</i>
6424	Air transport services of passengers	64241	Domestic scheduled air transport services of passengers	51.10.1	Passenger air transport services
64245	Space transport services of passengers	64242	Domestic non-scheduled air transport services of passengers	51.21	Freight air transport
6531	Air transport services of freight	64243	International scheduled air transport services of passengers	51.22	Space transport services
6532	Space transport services of freight	64244	International non-scheduled air transport services of passengers		
		65311	Air transport services of letters and parcels		
		65319	Air transport services of other freight		
		65320	Space transport services of freight		

Pricing unit of measure

Depends on the chosen pricing methodology

- Prices of repeated services
- Unit Values
- Model pricing
- Component pricing

SPPI Pricing Methods

Direct use of prices of repeated services

- **Real transaction prices are surveyed**
- **Representative destinations (airline, travel agency)**
- **Representative ticket types per destination (airline, travel agency)**
- **Remain constant quality for the chosen tickets (seat distance, baggage weight, etc.)**
- **Get additional price information (discounts, surcharges)**
- **Burdensome for the respondent**

SPPI Pricing Methods (cont.)

Unit Value method

- **Provision of turnover and quantity data**
- **Advisable for homogeneous groups of service products**
- **Delivered by the accounting system of the enterprises**
- **Not so burdensome**
- **Discounts are already incorporated**
- **Probably collected by national/international authorities**

Air freight transport

- International **Air Transport Association** (IATA)
- **Cargo Account Settlement System** (CASS)
- Air-Waybill (standardised freight document)
- Consolidated report including:
 - Origin-destination
 - Net revenue
 - Weight
 - Average yield per destination
- Resulting in an unit value

Choices for developing SPPIs

Category	Pricing method	Data type in the survey and frequency	Quality and Accuracy	Costs
Best	Prices of repeated services Contract pricing Unit Values	Data are based on real transaction prices	<u>Advantages:</u> Resulting price index is based on real transaction prices <u>Disadvantages:</u> Hard to keep the service specifications constant	Relatively high. Much work is needed to maintain constant quality. If unit values are used a time lag has to be accepted
Good	Model Pricing	Expert estimate. The data are fictitious prices estimated by the respondent	<u>Advantages:</u> Ability to incorporate productivity changes <u>Disadvantages:</u> High respondent burden	High. Good industry contacts are needed
Minimum	List Prices	List prices without additional information on discounts and surcharges	<u>Advantages:</u> Easy and fast to obtain for the NSI <u>Disadvantages:</u> No "transaction" prices	Low.

Special conditions or restrictions

- Limited number of national airlines
- Difficult to split into B2b and B2c services
- Prices are a sensitive subject in this highly competitive service branch
- Difficult to maintain constant quality of the chosen service product

Content

- Documentation
- Data sources and methods in general
- Production level
- Methods applied
- Evaluation of sources and methods

Documentation

- Report on the Pilot Survey on Transport Services undertaken by EU Member States, Voorburg, 1995
- Inquiry to countries (15 of which 5 gave substantial information)
- Austrian experience

Data sources and methods in general

- Survey (census, sample survey)
- Administrative data (VAT tax data, company reports, trade association statistics)
- Combination of survey instruments and use of administrative data sources (plus ev. regression model)

Turnover for air transport services

Turnover by activity	Countries	Remarks
Air transport services	All countries	
Scheduled air transport	AT, SW, MX, UK	
Scheduled passenger air transport Other scheduled air transport	UK	
Non-scheduled air transport	AT, SW, MX, UK	
Scheduled passenger air transport Other scheduled air transport	UK	
Space transport	UK	
Turnover by Product (CPA 5-digit)	IRL, MEX, SW, CZ, UK	CZ: 6-digit level, MX: every 5 years

Sources and methods applied

- Survey instruments (UK, NL, IR, Cor, MEX, ES, CZ)
- Administrative data (SF)
- Combination (DE, SW, AT)

Turnover for air transport services

Evaluation of sources and methods

Category	Data source and method of collection	Level of detail collected	Frequency	Advantages	Disadvantages
Best practice	Surveys -One or many -Different frequencies May include Economic Census	Industry detail (ISIC, NACE, NAICS, ANZSIC) and Product detail (CPC, NAPCS, CPA)	Annual and sub-annual (quarterly or monthly)	Turnover data on a detailed level can be collected Timely data	Most expensive Large response burden
Good	-One or many surveys -Combination of survey instruments with administrative data ev. plus regression model	Industry detail only	Annual and sub-annual (quarterly or monthly)	-Turnover data on a detailed level Timely data -Less expensive	-Expensive -Large response burden -admin. data base may need many imputations (missing VAT declaration, non-taxable turnover abroads, group taxation)
Minimum	Administrative data (tax data, industry association data etc.)	Industry detail only	Annual, quarterly, monthly	-Least expensive -Little or no response burden -Large coverage -Satisfying data quality (depending on data base)	-less precise (level of detail) -Least timely -Difficult to check incomplete or wrong data with the respondent -may need many imputations

Thank you for your attention



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