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ICT STATISTICS IN THE OECD: A SURVEY

OECD, Paris, 18-19 June 1998

This document, prepared by the Secretariat, provides an overview of the availability of information and communication technology statistics in the OECD databases.

The document is submitted for information under Item 7.1 of the draft agenda.

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INVENTORY OF OECD DATABASES WITH INFORMATION AND COMMUNICATION TECHNOLOGY RELATED DATA.

Introduction

1. This paper provides an overview of the availability of Information and Communication Technology (ICT) databases, regular or ad-hoc, as of end June 1997 - October 1997 for two databases. The availability of the data (timeframe and country) might change in the coming months, due to on-going updated processing. While not providing an exhaustive coverage of the OECD database, this inventory covers the most relevant OECD sources on ICT related-statistics (18 databases from three of the nine substantive OECD directorates)
2. The first part of the paper provides selected examples, based on OECD databases, on how to file-in the Canadian outline of a survey designed to identify the availability of ICT statistics in Member countries according to a common framework (see document *Outline for the pilot survey*, ref. DSTI/ICCP/AH(97)3) presented at the June 1997 meeting of the Statistical Panel.
3. The second part provides the inventory of OECD ICT related data, organised by database rather than by variable.

Core ICT sector

4. Although the definition of ICT statistics raises several methodological issues, this inventory is based on a definition of the ICT sector which rely on existing classifications used in the OECD databases.
5. Therefore, the ICT sector includes the corresponding categories in the existing used classifications, when available :

ISIC Rev.2

- 3825 Office & Computing Machinery
- 3832 Radio, TV & Communication Equipment
- 72 Communications

ISIC Rev.3

- 30 Office, Accounting & Computing Machinery
- 32 Electronic Equipment (Radio, TV & Communication Equipment)
- 321 Electronic Components (include. Semi-Conductors)
- 32-321 Radio, TV & Communication Equipment
- 64 Communications
- 642 Telecommunications
- 72 Computer and related Activities
- 722 Software Consultancy
- 72-722 Other Computer Services nec

6. The references to variables in the OECD databases is limited to those ICT industries, as defined above, for which the necessary industry detail (4-digit level) was available. The-2-digit level is often unfortunately too broad for precise information on the ICT sector.

Other related sectors

7. The sectors selected above are shown in the corresponding tables of each of the databases. When possible, other manufacturing sectors, such as Aircraft (3845 in ISIC Rev.2, and 352 --Aerospace-- in ISIC Rev.3), Scientific and Professional Instruments (3850 in ISIC Rev.2), or services sectors such as *Wholesale and Retail Trade* (91+92 in ISIC Rev.2), or *Recreational & cultural services* (94 in ISIC Rev.2), have been added, because they might provide usefull additional statistical information. Additional services categories --even at 1 digit level of the classifications-- have also been mentioned for information in some cases (ANBERD Services, ANRSE, ISIS, Occupations, Services Statistics, ISDB, Flows and Stocks of Fixed Capital).

8. Trade data are classified according to the SITC Rev.2 and 3, and in some cases converted into ISIC rev.2.

9. For Services Statistics database, the data are originating from national accounts but are compatible with ISIC Rev.2 classification at 2 digits level (see p.50).

PART I. ICT STATISTICS: AVAILABILITY OF SELECTED VARIABLES FROM OECD DATABASES

10. This section provides detailed examples for selected economic variables and sectors, while the remaining ones are treated in databases and special chapters in part II.

Table 1. Production data at current prices, availability across OECD databases

Databases	STAN		ISIS		ISIC rev.3						
	ISIC rev. 2	3825-3832	ISIC rev. 2	3420 3825 3832 3845 3850	22	30	32	33	353		
Category				IS= Industrial Survey, NA= National Accounts							
Countries											
Australia	70-92		IS	1967-92 1978-92 1967-92 1967-92 1987-92 1967-92	IS	1993-94	1993-94	1993-94	1993-94		
Austria	70-94/3825na		IS	1969-94 n.a. 1969-94 1977-94 1969-94	IS	n.a.	n.a.	n.a.	n.a.		
Belgium	n.a.		NA	1975-95 n.a. n.a. n.a.	IS	n.a.	n.a.	n.a.	n.a.		
Canada	70-94		IS	1967-94 1967-94 1967-94 1979-94 1967-94	IS	1994	1994	1994	1994		
Czech Republic	n.a.		NA ¹	1970-95 n.a. n.a. n.a.	IS ¹	1994	1994	1994	1994		
Denmark	71-92		NA	1970-92 n.a. 1970-92	IS	n.a.	n.a.	n.a.	n.a.		
Finland	70-94		NA ¹	1970-91 n.a. n.a. 1990-91	NA ¹	1988-95	1988-96	1988-97	n.a.		
			IS	1967-94 1967-94 1967-94 1979-94 1967-94	IS	1993	1993	1993	1993		
France	70-95		NA ¹	1977-95 n.a. n.a. 1977-95	IS	n.a.	n.a.	n.a.	n.a.		
Germany	70-94		IS	1970-94 1970-94 1977-94 1977-94	IS	n.a.	n.a.	n.a.	n.a.		
Greece	70-93		IS	1967-92 1971-92 1967-92	IS	n.a.	n.a.	n.a.	n.a.		
Hungary	n.a.			n.a. n.a. n.a.	IS	1992-94	1992-94	1992-94	1992-94		
Italy	70-93		IS	1967-91 1983-91 1983-91 1989-91 1967-91	IS	1992-94	1992-94	1992-94	1992-94		
Japan	70-94		IS	1967-93 1967-93 1967-93 1984-93 1967-93	IS	1994	1994	1994	1994		
Iceland	70-93			n.a. n.a. n.a.	IS	n.a.	n.a.	n.a.	n.a.		
Ireland	n.a.		IS	1967-90 1973-90 1973-90	IS	1991-94	1991-94	1991-94	1991-94		
Korea	70-94		IS	1985-90 1985-90 1985-90 1990	IS	1990-94	1990-94	1990-94	1990-94		
Mexico	70-95		IS	1984-95 1984-95 1984-95	IS	1989,1994	1989,1994	1989,1994	1989,1994		
Netherlands	70-93		IS	1978-93 1978-87 1983-93	IS	1992-94	1992-94	1992-94	1992-94		
New Zealand	70-87		IS	1968-91 1976-87 1968-87 1975-87 1968-91	IS	n.a.	n.a.	n.a.	n.a.		
Norway	70-92		IS	1967-92 1968-92 1967-92 1975-92 1967-92	IS	1991-94	1991-94	1991-94	1991-94		
Portugal	70-94		NA ¹	1967-91 1967-91 1967-91	NA ¹	1991-93	1991-93	1991-93	1991-93		
Spain	70-94		IS	1967-94 1967-94 1967-94 1972-94 1967-94	IS	n.a.	n.a.	n.a.	n.a.		
Sweden	70-94		IS ²	1967-92 1978-92 1978-92 1978-92 1967-92	IS	n.a.	n.a.	n.a.	n.a.		
			IS ²	1967-94 1967-94 1967-94 1970-94 1967-94	IS	1990-95	1990-95	1990-95	1990-95		
Turkey	n.a.		NA ¹	1980-94 n.a. n.a.	IS	n.a.	n.a.	n.a.	n.a.		
United Kingdom	70-92		IS	1967-94 1967-94 1988-94 1967-94	IS	n.a.	n.a.	n.a.	n.a.		
United States	70-94		IS	1968-92 1968-92 1968-92 1979-92 1968-92	IS	1993-94	1993-94	1993-94	1993-94		
			IS	1967-94 1967-94 1967-94 1972-94 1967-94	IS	n.a.	n.a.	n.a.	n.a.		

1. Production at constant prices available for the same years.

2. Production at constant prices available for different years.

Table 2. Value added data at current prices, availability across OECD databases

Databases Classification Category	STAN ISIC rev. 2 3825-3832	ISIS										ISDB				
		ISIC rev. 2 3420	3825	3832	3845	3850	ISIC rev.3					72 current	72 constant			
Countries		IS= Industrial Survey, n.a.= National Accounts														
Australia	70-91	IS	1975-90	1975-90	1975-90	1975-90	1975-90	1975-90	1975-90	IS	1993-94	1993-94	1993-94	1993-94	1979-95	1983-95
Austria	70-94/3825na	IS	1969-94	n.a.	1969-94	1977-94	1969-94	1969-94	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Belgium	n.a.	NA ^{1,3}	1975-95	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	1970-95	1970-95
Canada	70-94	IS	1967-94	1967-94	1967-94	1979-94	1967-94	1967-94	IS	1994	1994	1994	1994	1961-92	1961-95	
Czech Republic	n.a.	NA ¹	1970-95	n.a.	n.a.	n.a.	n.a.	n.a.	IS ¹	1994	1994	1994	1994	n.a.	n.a.	
Denmark	71-92	NA	1970-92	n.a.	1970-92	n.a.	1970-92	1970-92	NA ¹	n.a.	n.a.	n.a.	n.a.	1966-95	1966-95	
Finland	70-94	NA ²	1970-91	n.a.	n.a.	1990-91	1990-91	1990-91	IS	1988-95	1988-96	1988-97	1988-98	1960-95	1960-95	
France	70-95	IS	1967-94	1967-94	1967-94	1979-94	1967-94	1967-94	IS	n.a.	n.a.	n.a.	n.a.	1970-95	1970-95	
Germany	70-94	IS	1977-95	n.a.	n.a.	1977-95	1977-95	1977-95	IS	1993	1993	1993	1993	1991-95	1991-95	
Germany (West)	n.a.	IS	1975-93	1975-93	1976-93	1975-93	1975-93	1975-93	IS	n.a.	n.a.	n.a.	n.a.	1960-93	1960-93	
Greece	70-92/93	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Hungary	n.a.	IS	1967-92	1974-92	1967-92	n.a.	1967-92	1967-92	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Italy	70-93	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Japan	70-94	IS	1967-91	1983-91	1983-91	1989-91	1967-91	1967-91	IS	1992-94	1992-94	1992-94	1992-94	1960-95	1960-95	
Iceland	70-93	IS	1967-93	1967-93	1967-93	1984-93	1967-93	1967-93	IS	1994	1994	1994	1994	n.a.	n.a.	
Ireland	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Ireland	n.a.	IS	1967-90	1973-90	1973-90	n.a.	1973-90	1973-90	IS	1991-94	1991-94	1991-94	1991-94	n.a.	n.a.	
Korea	70-94	IS	1985-90	1985-90	1985-90	1990	1985-90	1985-90	IS	1990-94	1990-94	1990-94	1990-94	n.a.	n.a.	
Luxembourg	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Mexico	70-95	IS	1984-91	1984-91	1984-91	n.a.	1984-91	1984-91	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Netherlands	70-93	IS	1978-93	1978-87	1983-93	n.a.	1980-93	1980-93	IS	1989,1994	1989,1994	1989,1994	1989,1994	1969-95	1969-95	
New Zealand	70-87	IS	1968-91	1976-87	1968-87	1975-87	1968-91	1968-91	IS	1992-94	1992-94	1992-94	1992-94	n.a.	n.a.	
Norway	70-92	IS	1975-92	1975-92	1975-92	1975-92	1975-92	1975-92	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Norway	70-92	NA ¹	1967-91	1967-91	1967-91	1967-91	1967-91	1967-91	NA ¹	1991-93	1991-93	1991-93	1991-93	1962-96	1962-96	
Portugal	70-94	IS	1971-94	1971-94	1971-94	1972-94	1971-94	1971-94	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Spain	70-94	IS	1967-92	1978-92	1978-92	1978-92	1967-92	1967-92	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Sweden	70-94	IS	1967-94	1967-94	1967-94	1970-94	1967-94	1967-94	IS	1990-95	1990-95	1990-95	1990-95	1963-94	1963-94	
Sweden	70-94	NA ²	1980-94	n.a.	n.a.	n.a.	1980-94	1980-94	NA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Turkey	n.a.	IS	1967-94	1967-94	1967-94	1988-94	1967-94	1967-94	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
United Kingdom	70-92	IS	1968-92	1968-92	1968-92	1979-92	1968-92	1968-92	IS	1993-94	1993-94	1993-94	1993-94	n.a.	n.a.	
United States	70-94	IS	1967-94	1967-94	1967-94	1972-94	1967-94	1967-94	IS	n.a.	n.a.	n.a.	n.a.	1960-94	1960-94	

1. Value added at constant prices available for the same years.

2. Value added at constant prices available for different years.

3. Value added at factor costs, current prices, available for the same years.

Table 2 (Cont'd). Value added data at current prices, availability across OECD databases

Databases Classification Category	Services Statistics database (For the corresponding categories, see Table 2b)										National Accounts database				
	Foot- note	2.2	2.2.1	2.2.2	4.3	4.3.1	4.3.2	5.1.6	5.2.5	5.9	Countries	Communication (72)		Recreational & cultural services (94)	
Countries												current	constant	current	constant
Australia	2	1970-93	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Australia	80-95	80-95	80-95	n.a.
Austria	2	1970-94	n.a.	n.a.	1970-93	n.a.	n.a.	n.a.	n.a.	n.a.	Austria	80-95	80-95	n.a.	n.a.
Belgium	2	1970-94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Belgium	80-95	80-95	n.a.	n.a.
Canada	2	n.a.	1970-92	1970-92	n.a.	1970-92	n.a.	n.a.	1970-92	n.a.	Can.a.da	80-92	80-95	80-92	80-95
Czech Republic	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Czech Republic	n.a.	n.a.	n.a.	n.a.
Denmark	2	1970-94	n.a.	n.a.	1970-94	n.a.	n.a.	n.a.	n.a.	n.a.	Denmark	80-95	80-95	80-95	80-95
Finland	2	1970-94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Finland	80-95	80-95	80-95	80-95
France	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	France	80-95	80-95	80-95	80-95
Germany	2	1970-94	n.a.	n.a.	1970-94	n.a.	n.a.	n.a.	n.a.	n.a.	Germany	n.a.	n.a.	n.a.	n.a.
Germany (West)	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Germany (West)	80-93	80-93	n.a.	n.a.
Greece	2	1970-93	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Greece	n.a.	n.a.	n.a.	n.a.
Hungary	2	1970-93	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Hungary	n.a.	n.a.	n.a.	n.a.
Italy	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Italy	80-95	80-95	n.a.	n.a.
Japan	2	1970-94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Japan	n.a.	n.a.	n.a.	n.a.
Iceland	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Iceland	80-93	80-93	80-93	80-93
Ireland	2	1973-92	n.a.	n.a.	1973-92	n.a.	n.a.	n.a.	n.a.	n.a.	Ireland	86-94	n.a.	n.a.	n.a.
Ireland	2	1986-93	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Korea	n.a.	n.a.	n.a.	n.a.
Korea	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Luxembourg	85-95	85-95	n.a.	n.a.
Luxembourg	2	1970-91	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Mexico	88-95	88-95	88-95	88-95
Mexico	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Netherlands	80-95	86-95	80-95	86-95
Netherlands	2	1970-92	n.a.	n.a.	1970-92	n.a.	n.a.	n.a.	n.a.	n.a.	New Zealand	80-93	80-95	n.a.	n.a.
New Zealand	2	1986-92	n.a.	n.a.	1986-92	n.a.	n.a.	n.a.	n.a.	n.a.	Norway	n.a.	n.a.	n.a.	n.a.
Norway	2	1970-95	n.a.	n.a.	n.a.	n.a.	n.a.	1970-95	n.a.	n.a.	Portugal	86-93	86-93	86-93	86-93
Portugal	2	n.a.	n.a.	n.a.	1970-92	n.a.	n.a.	n.a.	1970-92	n.a.	Spain	85-93	85-93	n.a.	n.a.
Portugal	2	1977-89	n.a.	n.a.	1977-89	n.a.	n.a.	n.a.	n.a.	n.a.	Sweden	80-94	80-94	80-94	80-94
Spain	2	1980-92	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Turkey	n.a.	n.a.	n.a.	n.a.
Sweden	2	n.a.	1980-94	1980-94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	United Kingdom	n.a.	n.a.	n.a.	n.a.
Turkey	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	United States	77-93	77-93	77-93	77-93
United Kingdom	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.					
United States	2	n.a.	1970-93	1970-93	n.a.	1970-93	1970-93	n.a.	n.a.	n.a.					

1. Value added at constant prices available for the same years.

2. Value added at constant prices available for different years.

3. Value added at factor costs, current prices, available for the same years.

Table 2b. Selected categories	
ISIC Rev.2 selected categories	
3420	Printing, Publishing and allied industries
3825	Office & Computing Machinery
3832	Radio, TV & Communication Equipment
3845	Manufacture of aircraft
3850	Professional & Scientific, Measuring & Controlling Equipment
ISIC Rev.3 selected categories	
22	Publishing, Printing & Recorded Media
30	Office, Accounting & Computing Machinery
32	Radio, TV & Communication Equipment
33	Medical, Precision Instruments, etc.
353	Aircraft & Spacecraft
Services selected categories (compatible with ISIC Rev.2)¹	
2.2	Communication
2.2.1	Telephone and telegraph
2.2.2	Radio, and television broadcasting.
4.3	Recreational and cultural services
4.3.1	Motion pictures
4.3.2	Amusement and recreation services
5.1.6	Producers of central Government services / Recreational and cultural services
5.2.5	Producers of local Government services / Recreational and cultural services
5.9	Producers of Government services / Communications
1. The codes are not ISIC codes. The categories originate from national accounts sources, and are compatible with ISIC Rev2 classification). See p.50	

Table 3. Employment data, availability across OECD databases

Databases Classification Category	STAN ISIC rev. 2 3825-3832	ISIS ISIC rev. 2 3420 3825 3832 3845 3850				ISIS rev.3 22 30 32 33 353							
		IS= Industrial Survey, NA= National Accounts											
Countries	number engaged												
Australia	78-92/70-92	IS 1967-92	1978-92	1967-92	1987-92	1967-92	IS	1993-94	1993-94	1993-94	1993-94	1993-94	1993-94
Austria	70-94/3825na	IS 1969-94	n.a.	1969-94	1983-94	1969-94	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Belgium	n.a.	NA 1975-92	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Canada	70-94	IS 1967-94	1967-94	1967-94	1987-94	1967-94	IS	1994	1994	1994	1994	1994	1994
Czech Republic	n.a.	NA 1970-95	n.a.	n.a.	n.a.	n.a.	IS	1994	1994	1994	1994	1994	1994
Denmark	71-92	NA 1970-92	n.a.	1970-92	n.a.	1970-92	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Finland	70-94	NA 1970-91	n.a.	n.a.	n.a.	1990-91	NA	1988-95	1988-96	1988-97	1988-98	1988-98	n.a.
France	70-93	IS 1967-94	1967-94	1967-94	1970-94	1967-94	IS	1993	1993	1993	1993	1993	1993
Germany	70-94	NA 1974-96	n.a.	n.a.	n.a.	1974-96	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Germany (West)		IS 1970-94	1970-94	1977-94	1977-94	1970-94	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Greece	70-92	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Hungary	n.a.	IS 1970-92	1971-92	1970-92	n.a.	1970-92	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Italy	70-93	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Japan	70-94	IS 1967-91	1983-91	1983-91	1989-91	1967-91	IS	1992-94	1992-94	1992-94	1992-94	1992-94	1992-94
Iceland	70-94	IS 1967-93	1967-93	1967-93	1984-93	1967-93	IS	1994	1994	1994	1994	1994	1994
Ireland	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Korea	70-94	IS 1967-90	1973-90	1973-90	n.a.	1973-90	IS	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
Luxembourg	n.a.	IS 1990	1990	1990	1990	1990	IS	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94
Mexico	70-95	n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Netherlands	70-93	IS 1976-93	1976-84	1980-93	n.a.	1980-93	IS	1992-94	1992-94	1992-94	1992-94	1992-94	1992-94
New Zealand	70-94	IS 1968-91	1976-87	1968-87	1975-87	1968-91	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Norway	70-92	IS 1967-92	1968-92	1967-92	1975-92	1967-92	IS	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
Portugal	70-94	NA 1967-91	1967-91	1967-91	1967-91	1967-91	NA	1991-93	1991-93	1991-93	1991-93	1991-93	1991-93
Spain	70-94	IS 1972-94	1972-94	1972-94	1972-94	1972-94	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Sweden	70-94	IS 1967-92	1978-92	1978-92	1978-92	1967-92	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Turkey	n.a.	IS 1967-94	1967-94	1967-94	1970-94	1967-94	IS	1990-95	1990-95	1990-95	1990-95	1990-95	1990-95
United Kingdom	70-92	NA 1980-94	n.a.	n.a.	n.a.	1980-94	NA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
United States	70-94	IS 1970-94	1970-94	1970-94	1988-94	1970-94	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		IS 1968-92	1968-92	1968-92	1979-92	1968-92	IS	1993-94	1993-94	1993-94	1993-94	1993-94	1993-94
		IS n.a.	n.a.	n.a.	n.a.	n.a.	IS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

PART II. ICT STATISTICS IN OECD DATABASES

11. The information coverage is presented database by database with related information on the classification, and variables, and timeframe availability provided in the corresponding table.

Databases

12. The OECD databases covered are the following :

I. National accounts

ANA (Annual National Accounts)

II. Industrial statistics databases :

STAN

ISIS (ISIC Rev.2 and Rev.3). Detail by country for ISIS ISIC Rev2 is in the Annex at the end of the paper.

AFA (Activities of Foreign affiliates)

Occupations by Industry

ISDB (International Sectoral DataBase)

III. Science & Technology related statistics :

ANBERD

ANRSE

Patents

STIU

STIU PRDE

Input-Output Database

Final Demand Matrix by Products

IV. Trade related statistics

Foreign Trade System (FTS) -former NEXT-

BILAT

V. Services related Statistics

Services Statistics

International Trade in Services

VI. Statistics on capital

Flows and Stocks of Fixed Capital

VII. Information and Communication Technologies

Telecommunication database

VIII. Prices

Although there is no database on prices related to ICT goods and services, some tables provide insight on the availability of the work related to this topic in various member countries.

Detail of the OECD databases with Information and Communication Technology related statistics:

13. Hereafter are the tables describing the content of the OECD databases which contains ICT related statistics, classified database by database.

I. National Accounts

ANA - Annual National Accounts -

14. Detailed national accounts of OECD countries provide tables on various aggregates. Data are provided in ISIC Rev.2. Only few sectors are available at the 2 digit level. Three sectors were selected, for which data on gross fixed capital formation, value added, and employment were available : Communication (72), Wholesale and retail trade (61+62), and Recreational & cultural services (94).

15. Hereafter are the tables describing the availability of the data for each of the 3 variables and sectors since 1980. Countries availability and time coverage vary greatly before that date.

base	Communication (72)			Wholesale and Retail Trade (61+62)			Recreational & cultural services (94)		
	GFCF	Value added	constant	GFCF	Value added	constant	GFCF	Value added	constant
	current	current	constant	current	current	constant	current	current	constant
1989-90 prices	na	80-95	80-95	na	80-95	na	na	80-95	na
Australia	na	80-95	80-95	na	80-95	na	na	80-95	na
1983 prices	na	80-95	80-95	na	80-95	80-95	na	na	na
Austria	na	80-95	80-95	na	80-95	80-95	na	na	na
1990 prices	80-95	80-95	80-95	80-95	80-95	80-95	na	na	na
Belgium	na	80-92	80-95	80-95	80-92	80-95	na	80-92	80-95
1986 prices	na	na	80-95	na	na	80-95	na	na	na
Canada	na	na	80-95	na	na	80-95	na	na	na
1990 prices	na	na	80-95	na	na	80-95	na	na	na
Czech Republic	80-92	80-95	80-95	80-92	80-95	80-95	80-92	80-95	80-95
1980 prices	na	na	80-95	na	na	80-95	na	na	na
Denmark	na	na	80-95	na	na	80-95	na	na	na
1991 prices	80-93	80-93	80-93	80-94	80-94	80-94	na	na	na
Germany	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
1991 prices	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
Germany (West)	80-92	80-92	80-92	na	na	80-94	80-92	80-92	na
1990 prices	80-95	80-95	80-95	80-95	80-95	80-95	na	na	na
Finland	80-95	80-95	80-95	80-95	80-95	80-95	na	na	na
1980 prices	80-95	80-95	80-95	80-95	80-95	80-95	na	na	na
France	80-92	80-92	80-92	na	na	80-94	80-92	80-92	na
1970 prices	80-95	80-95	80-95	na	na	80-94	na	na	na
Greece	80-95	80-95	80-95	na	na	80-93	na	80-93	80-93
1990 prices	86-95	86-94	na	86-95	86-94	na	na	na	na
Iceland	80-94	80-95	80-95	80-94	80-95	80-95	na	na	na
1990 prices	na	na	80-95	na	na	80-95	na	na	na
Ireland	na	na	80-95	na	na	80-95	na	na	na
1990 prices	na	na	80-95	na	na	80-95	na	na	na
Italy	na	na	80-95	na	na	80-95	na	na	na
1990 prices	na	na	80-95	na	na	80-95	na	na	na
Japan	na	na	80-95	na	na	80-95	na	na	na
1990 prices	na	na	80-95	na	na	80-95	na	na	na
Korea	80-91	85-95	85-95	80-91	85-95	85-95	na	na	na
1985 prices	na	na	80-95	na	na	80-95	na	na	na
Luxembourg	na	88-95	88-95	na	88-95	88-95	na	88-95	88-95
1993 prices	86-94	80-95	86-95	86-94	80-95	86-95	na	80-95	86-95
1990 prices	80-89	80-93	80-95	na	na	80-95	na	na	na
Netherlands	na	na	80-95	na	na	80-95	na	na	na
1990 prices	na	na	80-95	na	na	80-95	na	na	na
New Zealand	86-93	86-93	86-93	86-93	86-93	86-93	86-93	86-93	86-93
1990 prices	na	na	80-94	na	na	80-94	na	na	na
Norway	na	na	80-94	na	na	80-94	na	na	na
1990 prices	na	na	80-94	na	na	80-94	na	na	na
Portugal	na	na	80-94	na	na	80-94	na	na	na
1986 prices	na	na	80-94	na	na	80-94	na	na	na
Spain	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94
1990 prices	na	na	80-94	na	na	80-94	na	na	na
Sweden	na	na	80-94	na	na	80-94	na	na	na
1990 prices	na	na	80-94	na	na	80-94	na	na	na
Switzerland	na	na	80-94	na	na	80-94	na	na	na
1987 prices	80-91	na	na	80-91	na	na	80-90	80-90	na
1990 prices	na	na	80-94	na	na	80-94	na	na	na
United Kingdom	na	na	80-94	na	na	80-94	na	na	na
1985 prices	na	77-93	77-93	na	77-93	77-93	na	77-93	77-93
United States	na	na	80-91	na	na	80-91	na	na	na

	Communication (72)					Wholesale and Retail Trade (61+62)					Recreational & cultural services (94)				
	Cost components of value added :					Cost components of value added :					Cost components of value added :				
	Compensation of employees	Capital consumption	Operating Surplus	Indirect Taxes	Subsidies	Comp. of employees	Capital consumpt.	Operating Surplus	Indirect Taxes	Subsidies	Comp. of employees	Capital consumpt.	Operating Surplus	Indirect Taxes	Subsidies
Australia	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
Austria	na	80-95	na	na	80-95	na	80-95	na	na	80-95	na	80-95	na	na	80-95
Belgium	80-95	na	na	80-95	na	80-95	na	na	80-95	na	80-95	na	na	na	na
Canada	80-92	na	80-92	80-92	80-92	80-92	na	80-92	80-92	80-92	na	80-92	80-92	80-92	80-92
Czech Republic	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Denmark	80-95	na	80-95	na	na	80-95	na	80-95	na	na	80-95	na	80-95	na	na
Germany	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Germany (West)	80-93	80-93	80-93	80-93	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94
Finland	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
France	80-95	na	80-95	80-95	80-95	80-95	na	80-95	80-95	80-95	na	80-95	na	na	na
Greece	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Iceland	80-93	80-93	80-93	80-93	80-93	80-93	80-93	80-93	80-93	80-93	80-93	80-93	80-93	80-93	80-93
Ireland	86-94	86-94	86-94	86-94	86-94	86-94	86-94	86-94	86-94	86-94	86-94	86-94	86-94	86-94	86-94
Italy	86-95	na	86-95	86-95	86-95	86-95	na	86-95	86-95	86-95	na	86-95	na	na	na
Japan	na	na	na	na	na	80-95	na	80-95	na	na	na	na	na	na	na
Korea	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Luxembourg	85-95	na	85-95	na	na	85-95	na	85-95	na	na	na	na	na	na	na
Mexico	88-95	na	88-95	88-95	na	88-95	na	88-95	88-95	na	na	na	na	na	na
Netherlands	80-95	na	80-95	80-95	80-95	80-95	na	80-95	80-95	80-95	na	80-95	80-95	80-95	80-95
New Zealand	80-93	80-93	80-93	80-93	80-93	na	na	na	na	na	na	na	na	na	na
Norway	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91
Portugal	86-93	na	86-93	86-93	86-93	86-93	na	86-93	86-93	86-93	na	86-93	86-93	86-93	86-93
Spain	85-93	na	85-93	85-93	na	85-93	na	85-93	85-93	na	na	na	na	na	na
Sweden	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94
Switzerland	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Turkey	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
United Kingdom	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
United States	60-93	60-93	60-93	60-93	60-93	60-93	60-93	60-93	60-93	60-93	60-93	60-93	60-93	60-93	60-93

	Employment			Communication (72)			Wholesale and Retail Trade (61+62)			Recreational & cultural services (94)		
	Total manhours worked by			Total manhours worked by			Total manhours worked by			Total manhours worked by		
	All persons	Employees	Employees	All persons	Employees	Employees	All persons	Employees	Employees	All persons	Employees	Employees
Australia	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
Austria	80-95	80-95	na	80-95	80-95	80-95	80-95	80-95	na	na	na	na
Belgium	80-95	80-95	na	80-95	80-95	80-95	80-95	80-95	na	na	na	na
Canada	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
Czech Republic	na	na	na	na	na	na	na	na	na	na	na	na
Denmark	80-95	80-95	na	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
Germany	na	na	na	91-95	91-95	91-95	80-95	80-95	na	na	na	na
Germany (West)	80-93	80-93	na	80-93	80-93	80-93	80-93	80-93	na	na	na	na
Finland	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
France	80-95	80-95	na	80-95	80-95	80-95	80-95	80-95	na	na	na	na
Greece	na	na	na	na	na	na	na	na	na	na	na	na
Iceland	80-94	80-94	na	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94
Ireland	na	na	na	na	na	na	na	na	na	na	na	na
Italy	80-95	80-95	na	80-95	80-95	80-95	80-95	80-95	na	na	na	na
Japan	na	na	na	na	na	na	na	na	na	na	na	na
Korea	na	na	na	na	na	na	na	na	na	na	na	na
Luxembourg	85-95	85-95	na	85-95	85-95	85-95	85-95	85-95	na	na	na	na
Mexico	na	88-95	na	na	88-95	88-95	na	88-95	na	na	na	na
Netherlands	80-95	80-95	na	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
New Zealand	na	na	na	na	na	na	na	na	na	na	na	na
Norway	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91	80-91
Portugal	86-93	86-93	na	86-93	86-93	86-93	86-93	86-93	na	na	na	na
Spain	86-93	86-93	na	86-93	86-93	86-93	86-93	86-93	na	na	na	na
Sweden	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95	80-95
Switzerland	na	na	na	na	na	na	na	na	na	na	na	na
Turkey	na	na	na	na	na	na	na	na	na	na	na	na
United Kingdom	na	na	na	na	na	na	na	na	na	na	na	na
United States	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94	80-94

II. Industrial statistics databases :

STAN

16. STAN database covers 49 ISIC rev.2 manufacturing industries (Table S1) for the following variables : production, Value added, GFCF, Number engaged, Labour compensation, Exports and Imports.

Table S1. The STAN coverage

ISIC	Description	ISIC	Description	Countries
3100	Food, beverages & tobacco	3610	Pottery & china	Australia
311/2	Food	3620	Glass products	Austria
3130	Beverages	3690	Non-metallic products nec.	Belgium
3140	Tobacco	3700	Basic metal industries	Canada
3200	Textiles	3710	Iron & steel	Denmark
3210	Wearing apparel	3720	Non ferrous metals	Finland
3220	Textiles, apparel & leather	3800	Fabricated metal products	France
3230	Leather & products	3810	Metal products	Germany
3240	Footwear	3820	Machinery nec.	Greece
3300	Wood products & furniture	3825	Office & computing equipment	Iceland
3310	Wood products	382X ¹	Machinery & equipment nec.	Italy
3320	Furniture & fixtures	3830	Electrical machinery	Japan
3400	Paper, products & printing	3832	Radio, TV & communication equip.	Korea
3410	Paper products	383X ¹	Machinery & equipment nec.	Mexico
3420	Printing & publishing	3840	Transport equipment	The Netherlands
3500	Chemical products	3841	Shipbuilding & repairing	New Zealand
3510	Industrial chemicals	3842	Railroad equipment	Norway
3520	Other chemicals	3843	Motor vehicles	Portugal
3522	Drugs & medicines	3844	Motorcycles & bicycles	Spain
352X ¹	Chemical products nec.	3845	Aircraft	Sweden
3530	Petroleum refineries	3849	Transport equipment nec.	United Kingdom
3540	Petroleum & coal products	3850	Professional goods	United States
3550	Rubber products	3900	Other manufacturing	
3560	Plastic products nec.	3000	Total manufacturing	
3600	Non-metallic mineral products			

¹. 352X represents ISIC 3520 less 3522 (3521 + 3523 + 3529)

. 382X represents ISIC 3820 less 3825 (3821 + 3822 + 3823 + 3824 + 3829)

. 383X represents ISIC 3830 less 3832 (3831 + 3833 + 3839)

STAN as of 30/4/1997	Classification : ISIC Rev.2	Level : 2,3,4 digit level		current prices	years availability for 3825 / 3832			
Manufacturing sectors only								
Nowcast data are available at aggregated level of country groups for indicators until 1995								
Countries	Variables	EMPN	EXPO	IMPO	GFCF	LAB	PROD	VALU
	Number engaged	Export	Import	Gross Fixed Capital Formation	Labour compensation	Production	Value added	
22 countries								
Australia	78-92/70-92	70-94	70-94	78-90/70-90	78-92/70-92	70-92	70-91	
Austria	70-94/3825na	70-94	70-94	70-94/3825na	70-94/3825na	70-94/3825na	70-94/3825na	
Belgium	n.a.	70-94	70-94	n.a.	n.a.	n.a.	n.a.	
Canada	70-94	70-94	70-94	70-90	70-94	70-94	70-94	
Denmark	71-92	70-94	70-94	71-91	71-92	71-92	71-92	
Germany	70-94	70-94	70-94	70-94	70-94	70-94	70-94	
Finland	70-94	70-94	70-94	70-94	70-94	70-94	70-94	
France	70-93	70-94	70-94	70-91	70-95	70-95	70-95	
Greece	70-92	70-94	70-94	70-92	70-92/93	70-92/93	70-92/93	
Italy	70-93	70-94	70-94	70-91	70-93	70-93	70-93	
Japan	70-94	70-94	70-94	70-93	70-94	70-94	70-94	
Iceland	70-94	70-94	70-94	n.a.	80-93	70-93	70-93	
Korea	70-94	70-94	70-94	70-90	70-94	70-94	70-94	
Mexico	70-95	n.a.	n.a.	n.a.	70-95	70-95	70-95	
Netherlands	70-93	70-94	70-94	70-93	70-93	70-93	70-93	
New Zealand	70-94	70-94	70-94	70-87	70-87	70-87	70-87	
Norway	70-92	70-94	70-94	70-92	70-92	70-92	70-92	
Portugal	70-94	70-94	70-94	70-89	70-89/94	70-94	70-94	
Spain	70-94	70-94	70-94	70-92	70-94	70-94	70-94	
Sweden	70-94	70-94	70-94	n.a.	70-94	70-94	70-94	
United Kingdom	70-92	70-94	70-94	70-92	70-92	70-92	70-92	
United States	70-94	70-94	70-94	70-94	70-94	70-94	70-94	

ISIS (Industrial Structure Statistics)

17. Contains official annual data derived from industrial surveys, foreign trade data or national accounts, covering a number of variables (production, value added, investment, investment in machinery and equipment, exports, imports, wages and salaries, employment, number of establishments, hours worked) according to ISIC Revision 2 and ISIC Rev. 3.

18. The variables covered in are:

ISIS / List of the variables. ISIC Rev.2, ISIC Rev.3

EXPO	Exports
IMPO	Imports
IMPOK	Imports (constant price)
EMPE	Number of employees
EMPF	Number of female employed
EMPN	Total employment (number engaged)
EMPO	Number of operative employed
ESTB	Number of establishments
ESUP	Supplement to wages & salaries (social costs)
GFCF	Investment
GFCFK	Investment
GFEQ	Investment in machinery and equipment
GFEQK	Investment in machinery and equipment (constant price)
PROD	Production
PRODK	Production (constant price)
VALU	Value added
VALUK	Value added
VAFC	Value added at factor costs
WASE	Wages & salaries of employees
WASN	Wages & salaries of number engaged
WASO	Wages & salaries of operative
MHOU	Hours worked by operative
EHOU	Hours worked by employees
ENTR	Number of enterprises
PRFV	Production at factor costs
REME	Remuneration of employees
REMN	Remuneration
REMO	Remuneration of operative
CAPS	<i>ISIC Rev.3 only</i> Capital stock

The countries covered differ according to the ISIC Revision. For ISIC Rev.2, the countries and original source of the data are :

ISIS / ISIC Rev2		
Countries available ¹		
	Industrial Survey	National Accounts
Austria	IS	
Australia	IS	
Belgium		NA
Canada		
Switzerland		NA
Denmark	IS	NA
Spain	IS	
Finland	IS	NA
France		NA
United Kingdom	IS	
Germany		NA
Greece	IS	
Ireland	IS	
Italy	IS	
Japan	IS	
Korea	IS	
Mexico	IS	
Norway	IS	NA
Netherlands	IS	
New Zealand	IS	NA
Sweden	IS	NA
Turkey	IS	
United States	IS	

1. For detail by country, see Annex [ISIS- ISIC Rev.2]

Concerning **ISIS / ISIC Rev.3**, the database can provide data at a 4-digit level, according to the first table below. In order to give a global idea of availability of the data, industries have been selected at a 2-digit level only and the results are shown in the second table below.

Detail of ISIC Rev.3 classification in ISIS

15	Food Products & Beverages	2109	Other Articles of Paper & Paperboard
151	Meat, Fish, Fruit, Vegetables, Oils & Fats Products	22	Publishing, Printing & Recorded Media
1511	Production, Processing & Preserving of Meat	221	Publishing
1512	Processing & Preserving of Fish	2211	Publishing of Books & Other Publications
1513	Preserved Fruit & Vegetables	2212	Publishing of Newspapers, Journals & Periodicals
1514	Vegetable and Animal Oils & Fats	2213	Publishing of Recorded Media
152	Dairy Products	2219	Other Publishing
153	Grain Mill & Starch Products; Animal Feeds	222	Printing & Related Activities
1531	Grain Mill Products	2221	Printing
1532	Starches & Starch Products	2222	Service Activities Related to Printing
1533	Prepared Animal Feeds	223	Reproduction of Recorded Media
154	Other Food Products	23	Coke & Petroleum Products; Nuclear Fuel
1541	Bakery Products	231	Coke Oven Products
1542	Sugar	232	Refined Petroleum Products
1543	Cocoa, Chocolate & Sugar Confectionery	233	Processing of Nuclear Fuel
1544	Macaroni, Noodles, Couscous, etc.	24	Chemicals & Chemical Products
1549	Other Food Products, nec	241	Basic Chemicals
155	Beverages	2411	Basic Chemicals, ex. Fertilizers
1551	Distilling, Rectifying & Blending of Spirits	2412	Fertilizers & Nitrogen Compounds
1552	Wines	2413	Plastics in Primary Forms & Synthetic Rubber
1553	Malt Liquors & Malt	242	Other Chemical Products
1554	Soft Drinks; Production of Mineral Waters	2421	Pesticides & Other Agro-Chemical Products
16	Tobacco Products	2422	Paints, Varnishes, Printing Ink & Mastics
17	Textiles	2423	Pharmaceuticals, Medicinal Chemicals, etc.
171	Spinning, Weaving & Finishing of Textiles	2424	Soap, Cleaning Preps., Perfumes, Cosmetics, etc.
1711	Prep. of Textile Fibres; Weaving of Textiles	2429	Other Chemical Products, nec
1712	Finishing of Textiles	243	Man-Made Fibres
172	Other Textiles	25	Rubber & Plastics Products
1721	Made-Up Textile Articles, ex. Apparel	251	Rubber Products
1722	Carpets & Rugs	2511	Rubber Tyres & Tubes
1723	Cordage, Rope, Twine & Netting	2519	Other Rubber Products
1729	Other Textiles, nec	252	Plastic Products
173	Knitted and Crocheted Fabrics & Articles	26	Other Non-Metallic Mineral Products
18	Wearing Apparel & Fur	261	Glass & Glass Products
181	Wearing Apparel, ex. Fur Apparel	269	Non-Metallic Mineral Products, nec
182	Dressing & Dyeing of Fur; Articles of Fur	2691	Pottery, China & Earthenware
19	Leather & Articles; Footwear	2692	Refractory Ceramic Products
191	Leather & Articles of Leather	2693	Structural Non-Refractory Clay Products
1911	Tanning & Dressing of Leather	2694	Cement, Lime & Plaster
1912	Luggage, Handbags & the Like, Saddlery & Harness	2695	Articles of Concrete, Cement & Plaster
192	Footwear	2696	Cutting, Shaping & Finishing of Stone
20	Wood & Wood Products (ex. Furniture)	2699	Other Non-Metallic Mineral Products, nec
201	Sawmilling & Planing of Wood	27	Basic Metals
202	Wood Products; Articles of Cork, Straw, etc.	271	Basic Iron & Steel
2021	Veneer Sheets; Plywood, Particle Board, etc.	272	Basic Precious & Non-Ferrous Metals
2022	Builders' Carpentry & Joinery	273	Casting of Metals
2023	Wooden Containers	2731	Casting of Iron & Steel
2029	Other Wood Products; Articles of Cork, Straw, etc.	2732	Casting Non-Ferrous Metals
21	Paper & Paper Products	28	Fabricated Metal Products (ex. Machinery)
2101	Pulp, Paper & Paperboard	281	Structural Metal Products, Tanks, Generators, etc.
2102	Corrugated Paper & Paperboard		

Detail of ISIC Rev.3 classification in ISIS (Continued)

2811 Structural Metal Products	3512 Building & Repairing of Pleasure and Sporting Boats
2812 Tanks, Reservoirs & Containers of Metal	352 Railway and Tramway Locomotives & Rolling Stock
2813 Steam Generators, ex. Centr. Heating Hot Water Boile	353 Aircraft & Spacecraft
289 Other Fabricated Metal Products	359 Transport Equipment, nec
2891 Forging, Pressing, Stamping & Roll-Forming of Meta	3591 Motorcycles
2892 Treatment & Coating of Metals	3592 Bicycles & Invalid Carriages
2893 Cutlery, Hand Tools & General Hardware	3599 Other Transport Equipment, nec
2899 Other Fabricated Metal Products, nec	36 Furniture; Manufacturing, nec
29 Electrical Machinery	361 Furniture
291 General Purpose Machinery	369 Manufacturing, nec
2911 Engines & Turbines, ex. Aircraft, Vehicles & Cycles	3691 Jewellery & Related Articles
2912 Pumps, Compressors, Taps & Valves	3692 Musical Instruments
2913 Bearings, Gears, Gearing & Driving Elements	3693 Sports Goods
2914 Ovens, Furnaces & Furnace Burners	3694 Games & Toys
2915 Lifting & Handling Equipment	3699 Other Manufacturing, nec
2919 Other General Purpose Machinery	37 Recycling
292 Special Purpose Machinery	371 Recycling of Metal Waste & Scrap
2921 Agricultural & Forestry Machinery	372 Recycling of Non-Metal Waste & Scrap
2922 Machine-Tools	15-37 Total Manufacturing
2923 Machinery for Metallurgy	01-02 Agriculture, Hunting & Forestry
2924 Machinery for Mining, Quarrying & Construction	5 Fishing
2925 Machinery for Food, Beverage & Tobacco Processing	10-14 Mining & Quarrying
2926 Machinery for Textile, Apparel & Leather Processing	10 Mining of Coal & Lignite; Extraction of Peat
2927 Machinery for Weapons & Ammunition	101 Mining & Agglomeration of Hard Coal
2929 Other Special Purpose Machinery	102 Mining & Agglomeration of Lignite
293 Domestic Appliances, nec	103 Extraction & Agglomeration of Peat
30 Office, Accounting & Computing Machinery	11 Crude Petroleum & Natural Gas; Service Activities
31 Electrical Machinery & Apparatus, nec	111 Crude Petroleum & Natural Gas
311 Electric Motors, Generators & Transformers	112 Service Activities Incidental To Oil & Gas Extraction
312 Electricity Distribution & Control Apparatus	12 Mining of Uranium & Thorium Ores
313 Insulated Wire & Cable	13 Mining of Metal Ores
314 Accumulators, Primary Cells & Primary Batteries	131 Mining of Iron Ores
315 Electric Lamps & Lighting Equipment	132 Mining of Non-Ferrous Metal Ores
319 Other Electrical Equipment, nec	14 Other Mining & Quarrying
32 Radio, TV & Communication Equipment	141 Quarrying of Stone, Sand & Clay
321 Electronic Valves & Tubes; Other Electr. Components	142 Other Mining & Quarrying, nec
322 TV/Radio Transmitters; Line Teleph./Telegr. Apparatu	40-41 Electricity, Gas & Water
323 TV/Radio Receivers & Associated Goods	40 Electricity, Gas, Steam & Hot Water Supply
33 Medical, Precision Instruments, etc.	401 Production, Collection & Distribution of Electricity
331 Medical/Surgical Equip.; Instruments/Appliances, etc.	402 Manufacture & Distribution of Gas
3311 Medical/Surgical Equip.; Orthopaedic Appliances	403 Steam & Hot Water Supply
3312 Instruments/Appliances for Measuring, Checking, etc.	41 Collection, Purification & Distribution of Water
3313 Industrial Process Control Equipment	45 Construction
332 Optical Instruments & Photographic Equipment	50-52 Wholesale & Retail Trade; Repairs, etc.
333 Watches & Clocks	55 Hotels & Restaurants
34 Motor Vehicles, Trailers, etc.	60-64 Transport, Storage & Communications
341 Motor Vehicles	65-67 Financial Intermediation
342 Automobiles Bodies, Trailers & Semi-Trailers	70-74 Real Estate, Renting & Business Activities
343 Parts & Accessories for Motor Vehicles, etc.	75-99 Community, Social & Personal Services
35 Other Transport Equipment	01-99 Grand Total
351 Building & Repairing of Ships and Boats	
3511 Building & Repairing of Ships	

ISIS / ISIC Rev.3, except for Ireland (NACE Rev.1) : data availability
as of June 1997

countries	time	source	Variables	industries (2 digits level)
Australia	1993-94	IS	PROD, EMPN, VALU, ESTB, WASE	22, 30, 32, 33, 353, 50-52, 55, 60, 65-67, 70-74, 75-99
Belgium	1988-94	IS	IMPO, EXPO	22, 30, 32, 33, 353
Canada	1994	IS	PROD, VALU, EMPN, EMPE, EMPO, WASE, WASO, MHOU, ESTB	22, 30, 32, 33, 353
Czech Republic		IS	PROD, VALU, GFCF, EMPN, EMPE, EMP, WASN, WASO, MHOU, ESTB	22, 30, 32, 33, 50-52, 55, 60, 65-67, 70-74, 75-99
Finland ¹	1988-95	NA	PROD, PRODK, VALU, VALUK, GFCF, GFCFK, GFEQ, GFEQK, EMPN, WASN, MHOU, EHOU	22, 30, 32, 33, 50-52, 55, 60, 65-67, 70-74, 75-99
France	1993	IS	PROD, VALU, GFCF, GFEQ, EMPN, EMPE, REMN, WASN, ESUP, EXPO, ESTB	22, 30, 32, 33, 353
Hungary	1992-94	IS	PROD, EMPN, ESTB	22, 30, 32, 33, 353, 50-52, 55, 60, 65-67, 70-74, 75-99
Ireland	1991-94	IS	PROD, VALU, GFCF, GFEQ, EMPN, EMPE, EMPF, WASE, ESTB	22, 30, 32, 33, 353
Italy	1992-94	IS	PROD, VALU, GFCF, GFEQ, EMPN, EMPE, EMPF, REMN, REME, REMO, ESUP, MHOU, ESTB	22, 30, 32, 33, 353
Japan	1994	IS	PROD, VALU, GFCF, GFEQ, EMPN, WASE, ESTB	22, 30, 32, 33, 353
Korea	1990-94	IS	PROD, VALU, GFCF, GFEQ, EMPN, EMPE, EMPF, REMN, WASN, WASO, ESUP, CAPS	22, 30, 32, 33, 353
Mexico	1989, 1994	IS	PROD, VALU, GFCF, WASE, ESTB, CAPS	22, 30, 32, 33, 353, 55
Norway	1991-94	IS	PROD, VALU, GFCF, GFEQ, EMPN, EMPE, REMN, WASN, ESUP	22, 30, 32, 33, 353
	1991-93	NA	PROD, PRODK, VALU, VALUK, GFCF, GFCFK, GFEQ, GFEQK, EMPN, EMPE, REMN, WASN, ESUP	22, 30, 32, 33, 353, 50-52, 55, 60, 65-67, 70-74, 75-99
Netherlands	1992-94	IS	PROD, VALU, GFCF, GFEQ, EMPN, REME, WASE, ESUP, EXPO, ESTB	22, 30, 32, 33, 353
Sweden	1990-95	IS	PROD, VALU, EMPN, EMPE, WASN, WASE, ESUP, ESTB	22, 30, 32, 33, 353
United Kingdom	1993-94	IS	PROD, VALU, GFCF, GFEQ, EMPN, EMPE, EMPF, REMN, WASN, WASE, WASO, ESUP, EXPO, EXPOK, IMPO, IMPOK, MHOU, ESTB, CAPS	22, 30, 32, 33, 353

1. 1991-95 for services.

Activities of Foreign affiliates (AFA)

Définitions

1. Foreign affiliates

19. Inter-country comparability is still not satisfactory owing to problems of harmonizing national data at international level. Unlike data on direct investment flows which cover all transactions representing more than 10 per cent of firms' capital, data on the activity of affiliates are based on the concept of controlling interest. This is more difficult to assess and that is why the statistical test for collection of data is that of a majority interest (over 50 per cent of shares in a company that carry voting rights on the board of management). It is assumed that possession of more than 50 per cent of the shares in a company does give real control over its management, even though such control may sometimes be exercised with less than 50 per cent of the shares. The United States and France for example include firms under minority control (between 10 and 50 per cent) in their data, where investors may influence the management of firms without necessarily having a controlling interest.

2. Geographical origin

20. The geographical origin of the foreign affiliate corresponds to the home country of the parent company only if the parent company owns more than 50 per cent of the stocks of the affiliate, thus giving them the right to be on the board of directors.

21. The database includes the following investing countries:

- United States
- Canada
- Mexico
- Japan
- Europe
 - European Union
 - Belgium
 - France
 - Germany
 - Italy
 - Netherlands
 - Spain
 - Sweden
 - United Kingdom
 - Switzerland
- Australia and New Zealand
- Asia (non OECD)
- Latin América

4. Industrial coverage of the classification schemes

- Based on Standart ISIC Revision 2 Classification - 34 Industries

Industry in ISIC revision 2

2	Mining and quarrying
3	Manufacturing
31	Food, beverages and tobacco
32	Textiles, wearing apparel, leather, footwear
33/34	Wood and paper products
33	Wood and wood products
34	Paper and products, printing and publishing
35	All chemical products
351/352	Chemical products
3522	Drugs and medicines
353/354	Refined petroleum and coal products
355/356	Rubber and plastics products
36	Non-metallic mineral products
37	Basic metals
38	Fabricated metal prod., machinery
381	Fabricated metal products
382/385	Machinery, Total
382	Non-electrical machinery
382-3825	Non-electrical machinery, exc. computers
3825	Office machinery, computers
383	Electrical machinery and electronic equipment
383-3832	Electrical machinery
3832	Radio, TV and communication equipment
384	Transport equipment
3841	Shipbuilding and repairing
3843	Motor vehicles
3845	Aircraft and spacecraft
385	Scientific instruments
39	Other manufacturing
4/5	Electricity, gas and water supply, construction
6	Wholesale and retail trade, hotels, restaurants
8	Financing, insurance, real estate, business serv.
7&9	Transport, storage and comm., other services
2/9	TOTAL

- Based on Standart ISIC 3 Revision 3 Classification - 34 industries

Industry in ISIC revision 3

10/14	Mining and quarrying
15/37	15/37 Manufacturing
15/16	Food, beverages and tobacco
17/19	Textiles, wearing apparel, leather, footwear
20/22	Wood and paper products, publishing, printing
20	Wood and wood products, except furniture
21/22	Paper and products, printing and publishing
23/25	All chemical products
23	Refined petroleum and coal products
24/25	Chemicals, rubber and plastics products
24	Chemical products
2423	Drugs and medicines
25	Rubber and plastics products
26	Non-metallic mineral products
27/28	Basic and Fabricated metal products
27	Basic metals
28	Fabricated metal products
29/32	Total machinery and equipment
29/30	Non-electrical machinery and equipment
29	Machinery and equipment n.e.c.
30	Office, accounting and computing machinery
31/32	Electrical machinery and electronic equipment
31	Electrical machinery and apparatus n.e.c.
32	Radio, TV and communication equipment
33	Medical, precision, opt. instruments, watches
34/35	Transport equipment
34	Motor vehicles
35	Other transport equipment
351	Shipbuilding and repairing
353	Aircraft and spacecraft
36/37	Furniture, recycling and manufacturing n.e.c.
40/45	Electricity, gas and water supply, construction
50/55	Trade, Repair, Hotels and restaurants
65/74	Finance, insurance, real estate, business act.
Other activities	Other activities
01/99	TOTAL

Activities of Foreign Affiliates
as of June 1997

countries	ISIC2	Majority/All foreign owned	Number of establishments	Number of enterprises	Number of employees	Production	Turnover	Value Added	Compensa- tion of employees	RD expenditures	GFCF	Exports	Gross operating Surplus
Finland	3825	maj	87-93	87-93	87-93	87-93	na	93	93	na	87-93	87-93	na
	3832	maj	87-93	87-93	87-93	87-93	na	93	93	na	87-93	87-93	na
France	3825/3832	min+maj	na	89-92	89-92	na	89-92	89-92	89-92	91-92	89-92	89-92	89-92
Germany	3825	maj	na	na	85-91	na	85-91	na	na	na	na	na	na
Ireland	3825	maj	85-90	na	85-90	85-90	na	85-90	85-90	86-91	na	na	na
Norway	3825	maj	87-90	na	87-90	87-90	na	89,90	89,90	na	87-90	na	87-90
	3832	maj	87,88	na	87,88	87,88	na	na	na	na	87,88	na	87,88
Turkey	3825	maj	na	86-90	86	86	86	86	86	na	na	na	na
	3832	maj	na	na	na	na	na	na	na	na	na	na	na
United Kingdom	3825	maj	na	87-92	85-92	85-92	na	85-92	85-92	na	85-92	na	85-92
	3832	maj	na	na	87-89	87-89	na	87-89	87-89	na	87-89	na	na

		Activities of Foreign Affiliates as of June 1997														
countries	ISIC3	Majority/ All foreign owned	Number of enter- prises	Number of employees	Production Turnover	Value Added	Compensa- tion of employees	RD expendi- tures	Number of researchers	GFCF Exports	Imports	Intra-firm exports	Intra-firm imports	Gross operating Surplus	Technolo- gical payments	Technolo- gical receipts
Canada	30	maj	na	na	88	na	na	88,90,93	na	na	90-94	na	na	88-93	na	na
	31	maj	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	32	maj	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Finland	30	maj	94	na	na	na	na	na	na	na	na	na	na	na	na	na
	31	maj	94	93-94	92-94	na	93-94	na	na	na	na	na	na	na	na	na
	32	maj	94	na	92	na	na	na	na	na	na	na	na	na	na	na
Germany	30	maj	na	85-94	84-94	na	na	na	na	na	na	na	na	na	85-94	85-94
	31	maj	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	32	maj	na	na	na	na	na	na	na	na	na	na	na	na	85-94	85-94
Italy	30/32	maj	na	85-93	85-93	na	na	na	na	na	na	na	na	na	na	na
Japan	31_32 ⁽¹⁾	maj	na	86-93	86-93	na	na	86-92	86-92	86-93	86-93	na	na	86-93	na	na
Mexico	30/32	maj	na	85,93	85,93	85,93	85,93	na	na	85,93	90,93	na	na	85,93	85,93	85,93
Norway	30	maj	92-94	na	na	92-94	92-94	na	na	92-94	na	na	na	92-94	na	na
	31/32	maj	91-94	na	na	91-94	91-94	na	na	91-94	na	na	na	91-94	na	na
Sweden	30/32	maj	na	90-94	90-94	90-94	90-94	90-94	na	90-94	90-94	na	na	90-94	na	na
Turkey	30/32	maj	na	91-93	91-93	91-93	91-93	na	na	91-93	na	na	na	na	na	na
United States	30/32	min+maj	na	85-94	85-94	93-94	85-94	87-94	92-94	87-94	87-94	87-94	87-94	85-94	87,92	87,92

Occupations by industry

The following table describe the data availability concerning occupations by industry ad-hoc database compiled by the EAS Division.

Occupations by industry : data availability

	Years		Occupations		Industries		Adjustment (STAN, ANA, ISDB)	Source	
	Classif.	Detail	Classif.	Detail	Classif.	Detail			
Australia	1986	1991	NC	VERY HIGH	Bridge to ISCO-88 done*	NC	VERY HIGH	Bridge to ISIC-rev.2 done*	Population Census
Austria									
Canada	1971, 1981, 1986, 1991		ISCO-88	2 digits	No disaggregation for clusters 1, 6 and 8	ISIC-rev.2	2 digits for 6, 7, 8	Yes	
Denmark	1981, 1986, 1991, 1993		NC	8 occ.		ISIC-rev.2	1 digit for the rest	Yes	
Finland	1970, 1975, 1980, 1985, 1990		NC	520 occ.	Bridge to ISCO-88 done	ISIC-rev.2	As required	Yes	
France	1982	1990	ISCO-88	As required		ISIC-rev.2	As required	Yes	Recensement de la population (sondage au quart)
Germany	1976, 1980, 1985, 1990, 1994		ISCO-88	2 digits	No disaggregation for clusters 4, 6 and 8	ISIC-rev.2	As required	Yes	76 to 80: 1% -sample of the Employment Register of the Federal Employment Services
Greece	1988, 1990, 1993		ISCO-68 and ISCO-88			ISIC-rev.2 and NACE			94: full Employment Register.
Ireland	1971, 1981, 1986, 1991		NC	7 occ.		ISIC-rev.2	1 digit		
Italy	1981	1991	ISCO-88	As required		ISIC-rev.2	As required	Not for services and mining	
Japan	1970, 1975, 1980, 1985, 1990		ISCO-88	As required		ISIC-rev.2	Close to required	Yes	Occupation shares from Population Census matched to industry employment classification used in I-O tables
Luxembourg	1970	1991	ISCO-68	7 occ.		ISIC-rev.2	1 digit		
Mexico									
Netherlands	1981, 19895, 1990, 1993		NC	55 occ.		ISIC-rev.2	As required		
Norway									
New Zealand	1976, 1981, 1986, 1991		NC	Very high	Bridge to ISCO-88 done	ISIC-rev.2	As required	Yes	Census of Population and Dwellings
Portugal	1974, 1985, 1990, 1994		ISCO-68 and ISCO-88	1 digit		ISIC-rev.2	19 ind.		
Spain	1980, 1985, 1990, 1994		ISCO-68 and ISCO-88	1 digit		ISIC-rev.2 and ISIC-rev.3	33 ind.		
Sweden	1990, 1994		NC	8 occ.		ISIC-rev.2	2 digits (except 1, 2, 7) and ISIC-rev.3		
Switzerland	1990		ISCO-88	2 digits		ISIC-rev.2	60 ind.		
United Kingdom	1981, 1983 to 1991		Stand. Occ. Cl.	550 occ.	Bridge to ISCO-88 done	ISIC-rev.3	1 digit	Yes	Population Census, 10% sample
United States	1983 to 1993		Similar to ISCO-88	1 digit	Definitions change in 1992	NC	315 ind.	Yes	US Bureau of Labor Statistics "National Industry Occupation Employment Matrix" 1983 to 1993 Time Series

NC: National classification

Countries in bold used in the "STI Scoreboard of Indicators 1997"

Disaggregation level required

<i>Occupations</i>	<i>Industries</i>	
ISCO-88	ISIC-rev.2	
2 digits		
	1	Agriculture
	2	Mining
	3	Total manufacturing
	31	Food drink & tobacco
	32	Textile footwear & leather
	33	Wood cork & furniture
	34	Paper printing & publishing
	35	Chemicals
	351+352-3522	Basic chemicals
	3522	Pharmaceuticals
	353+354	Oil and coal products
	355+356	Rubber & plastics
	36	Stone clay & glass
	37	Basic metal industries
	371	Ferrous metals
	372	Non ferrous metals
	38	Fabricated metal products and machinery
	381	Fabricated metal products
	382-3825	Other non-electrical machinery
	3825	Computers and office equipments
	383-3832	Electrical machinery
	3832	Communication equipments semiconductors
	3841	Shipbuilding
	3843	Motor vehicles
	3845	Aircraft
	3842+3844+3849	Other transport equipment
	385	Instruments
	39	Other manufacturing
	4	EGW
	5	Construction
	6	Wholesale/Retail trade hotels restaurants
	61	Wholesale trade
	62	Retail trade
	63	Hotels & restaurants
	7	Transport storage and communications
	71	Transport & storage
	72	Communications
	8	Finance insurance real estate business services
	81	Financial institutions
	82	Insurance
	83	Real estate & business services
	9	Community social & personal services
	91	Public administration & defence
	92	Sanitary and similar services
	93	Social and related community services
	94	Recreational and cultural services
	95	Personal and household services
	96	International services

ISDB

The variables covered by the ISDB are as follow :

- Gross value added, at current and constant 1990 prices
- Compensation of employees
- Gross operating surplus
- Net indirect taxes
- Total employment
- Number of employees
- Average annual hours worked per person in employment (only for total economy)
- Gross capital stock, at current and constant 1990 prices
- Net capital stock, at current and constant 1990 prices
- Gross fixed capital formation, at current and constant 1990 prices
- Consumption of fixed capital, at current and constant 1990 prices
- Gross capital stock of machinery & equipment, at constant 1990 prices
- Exports and imports of goods, at current prices

B. The countries currently covered are:

1. Major seven: USA, Canada, Japan, Western Germany, France, Italy, United Kingdom
2. Other countries: Australia, Netherlands, Belgium, Denmark, Norway, Sweden, Finland

C. Industry coverage:

- Agriculture, hunting, forestry and fishing
- Mining and quarrying
- Manufacturing
 - Food, beverages and tobacco
 - Textiles, wearing apparel and leather
 - Wood and wood products, including furniture
 - Paper, paper products, printing and publishing
 - Chemicals and petroleum, coal, rubber and plastic products
 - Non-metallic mineral products
 - Basic metal products
 - Fabricated metal products, machinery and equipment
 - Metal products, except machinery and transport equipment
 - Agricultural and industrial machinery
 - Office and data processing machines, precision and optical instruments
 - Electrical goods
 - Transport equipment
 - Other manufacturing industries
- Electricity, gas and water
- Construction
- Wholesale and retail trade, restaurants and hotels
 - Wholesale and retail trade
 - Restaurants and hotels
- Transport, storage and communication
 - Communication

Finance, insurance, real estate and business services

Financial institutions and insurance

Real estate and business services

Community, social and personal services

Total of above industries

Producers of government services

Other producers

Total economy (excluding imputed bank service charge, import duties, value added taxes, etc.)

Total economy including all adjustments

D. Maximum period covered: 1960 - 1996

E. Standardised base year: 1990

F. The classification used is ISIC Rev. 2

2 sectors have been selected from the list above, **Communication (72) and Wholesale and retail trade (61+62)**. The 2 tables below provide a view of the timeframe and variable availability. Timeframe availability between current and constant prices generally does not differ, unless otherwise stated.

ISDB

as of october 1997

Classification ISIC Rev. 2 / 72 (Communication)

countries	1	1 (bis)	2	3	4	5	6	7	8	9	10
Australia	1979-95	1983-95	1983-95	1983-95	1983-95	1966-95	1979-95	n.a.	n.a.	n.a.	n.a.
Belgium	1970-95	1970-95	1970-94	1970-94	1970-95	1970-94	1970-94	1970-95	1970-96	1970-96	1970-96
Canada	1961-92	1961-95	1970-92	1970-92	1970-92	1980-95	1980-95	1960-95	1960-95	1960-95	1960-95
Denmark	1966-95	1966-95	1966-95	1966-95	n.a.	1966-95	1966-95	1966-92	1965-92	1965-92	1966-92
Finland	1960-95	1960-95	1960-95	1975-95	1975-95	1975-95	1975-95	1960-95	1960-95	1960-95	1960-95
France	1970-95	1970-95	1970-91	1977-91	1977-91	1970-95	1970-95	1960-95	1970-95	n.a.	n.a.
Germany (West)	1960-93	1960-93	1960-93	1960-93	1960-93	1960-93	1960-93	1960-93	1960-94	1960-94	1960-94
Germany	1991-95	1991-95	1991-95	n.a.	n.a.	1991-95	1991-95	1991-95	n.a.	n.a.	1991-95
Italy	1960-95	1960-95	1960-95	1970-95	1970-95	1960-95	1960-95	1970-94	1980-94	1980-94	1980-94
Netherlands	1969-95	1969-95	1969-95	1977-95	1977-95	1969-95	1969-95	1986-94	n.a.	n.a.	n.a.
Norway	1962-96	1962-96	1962-91	1962-91	1962-91	1962-91	1962-91	1962-96	n.a.	1970-96	n.a.
Sweden	1963-94	1963-94	1963-94	1963-94	1963-94	1970-94	1970-94	1970-94	1979-94	1970-94	1980-94
United Kingdom	n.a.	n.a.	1970-94	n.a.	n.a.	n.a.	n.a.	1960-94	n.a.	1970-94	n.a.
United States	1960-94	1960-94	1960-94	1960-94	1960-94	1960-94	1960-94	1960-93	n.a.	n.a.	1960-94

List of variables :

- 1 Value added
- 1 bis Value added, constant prices
- 2 Compensation of employees
- 3 Gross operating surplus
- 4 Net indirect taxes
- 5 Total employment
- 6 Number of employees
- 7 Gross fixed capital formation
- 8 Gross and net capital stock
- 9 Gross capital stock including estimates
- 10 Capital consumption

ISDB

as of october 1997

Classification ISIC Rev. 2 / 61+62 (Wholesale and retail trade)

countries	1	1 (bis)	2	3	4	5	6	7	8	9	10
Australia	1962-95	1962-95	1969-95	1969-95	1970-95	1966-95	1966-95	1966-95	1966-95	n.a.	n.a.
Belgium	1970-95	1970-95	1970-94	1970-94	1970-95	1970-94	1970-94	1970-95	n.a.	1970-95	1970-96
Canada	1961-92	1961-95	1970-92	1970-92	1970-92	1980-95	1980-95	1960-95	1960-95	1960-95	1960-95
Denmark	1966-95	1966-95	1966-95	1966-95	n.a.	1966-95	1966-95	1966-92	1965-92	1965-92	1966-92
Finland	1960-95	1960-95	1960-95	1975-95	1975-95	1975-95	1975-95	1960-95	1960-95	1960-95	1960-95
France	1960-95	1960-95	1970-91	1977-91	1977-91	1970-95	1970-95	1960-95	1970-95	n.a.	n.a.
Germany (West)	1960-94	1960-94	1960-94	1960-93	1960-93	1960-94	1960-94	1960-94	1960-94	1960-94	1960-94
Germany	1991-95	1991-95	1991-95	n.a.	n.a.	1991-95	1991-95	1991-95	n.a.	n.a.	1991-95
Italy	1970-95	1970-95	1970-95	1970-95	1970-95	1970-95	1970-95	1970-94	1980-94	1970-94	1980-94
Japan	1960-95	1970-95	1960-95	1960-95	1960-95	1967-95	1967-95	1960-95	1960-95	1960-95	n.a.
Netherlands	1969-95	1969-95	1969-95	1977-95	1977-95	1969-95	1969-95	1969-94	n.a.	1970-95	n.a.
Norway	1962-96	1962-96	1962-91	1962-91	1962-91	1962-91	1962-91	1962-96	1978-94	1970-96	1978-94
Sweden	1963-94	1963-94	1963-94	1963-94	1963-94	1970-94	1970-94	1970-94	1979-94	1970-94	1980-94
United Kingdom	na	1973-94	1970-94	n.a.	n.a.	n.a.	n.a.	1960-94	n.a.	1970-94	n.a.
United States	1960-94	1960-94	1960-94	1960-94	1960-94	1960-94	1960-94	1960-93	1960-93	1960-93	1960-94

List of variables :

- 1 Value added
- 1 bis Value added, constant prices
- 2 Compensation of employees
- 3 Gross operating surplus
- 4 Net indirect taxes
- 5 Total employment
- 6 Number of employees
- 7 Gross fixed capital formation
- 8 Gross and net capital stock
- 9 Gross capital stock including estimates
- 10 Capital consumption

III. Science & Technology related statistics :

INDUSTRIAL CLASSIFICATION FOR RESOURCES DEVOTED TO R&D IN THE BUSINESS ENTERPRISE SECTOR IN THE OECD R&D SURVEY AND CORRESPONDENCE WITH ISIC Rev.3, ISIC Rev. 2 AND NACE Rev. 1				
Title	ISIC Division/Group/Class	Rev.3 Div./Group/Class	Approximate correspond. ISIC Rev. 2 Div./Group/Class	Corresponding NACE Rev. 1 Div./Group/Class
1. AGRICULTURE, HUNTING & FORESTRY	01+02+05	1		01+02+05
2. MINING	10 thro' 14	2		10 thro' 14
3. MANUFACTURING	15 thro' 37	3		15 thro' 37
4. Food, beverages & tobacco	15+16	31		15+16
5. Food products & beverages	15	311 thro' 313		15
6. Tobacco products	16	314		16
7. Textiles, wearing apparel, fur & leather	17 thro' 19	32		17 thro' 19
8. Textiles	17	321		17
9. Wearing apparel & fur	18	(18
10. Leather products & footwear	19	(322 thro' 324		19
11. Wood, paper, printing, publishing	20 thro' 22	331+34+3832 (part)		20 thro' 22
12. Wood & cork (not furniture)	20	331		20
13. Pulp, paper & paper products	21	341		21
14. Publishing, printing & reproduction of recorded media	22	342+3832 (part)		22
15. Coke, petroleum, nuclear fuel, chemicals & products, rubber & plastics	23 thro' 25	35		23 thro' 25
16. Coke, refined petroleum products & nuclear fuel	23	353+354		23
17. Chemicals & chemical products	24	351+352		24
18. <i>Chemical products less pharmaceuticals</i>	<i>24 less 2423</i>	<i>351+352 less 3522</i>		<i>24 less 24.4</i>
19. <i>Pharmaceuticals</i>	<i>2423</i>	<i>3522</i>		<i>24.4</i>
20. Rubber & plastic products	25	355+356		25
21. Other non-metallic mineral products	26	36		26
22. Basic metals	27	37		27
23. Basic metals, ferrous	271+2731	371		27.1 thro' 27.3 + 27.51/52
24. Basic metals, non-ferrous	272+2732	372		27.4 + 27.53/54
25. Fabricated metal products (except machinery & equipment)	28	381		28
26. Machinery Equipment, Instruments & Transport Equipment	29 thro' 35	38 less 381 & 3832 (part)		29 thro' 35
27. Machinery n.e.c.	29	382 less 3825+3829 (part)		29
28. Office, accounting & computing machinery	30	3825		30
29. Electrical machinery	31	383 less 3832		31
30. Electronic equipment (radio, TV & communications)	32	3832 (part)		32
31. <i>Electronic components (includes semi-conductors)</i>	<i>321</i>			<i>32.1</i>
32. <i>Television, radio & communications equipment</i>	<i>32 less 321</i>			<i>32 less 32.1</i>
33. Medical, precision & optical instruments, watches & clocks (Instruments)	33	385		33
34. Motor vehicles	34	3843		34
35. Other transport equipment	35	384 (part)+3829(part)		35
36. <i>Ships</i>	<i>351</i>	<i>3841</i>		<i>35.1</i>
37. <i>Aerospace</i>	<i>353</i>	<i>3845+3829(part)</i>		<i>35.3</i>
38. <i>Other transport equipment n.e.c.</i>	<i>352+359</i>	<i>3842+3844+3849</i>		<i>35.2+35.4+35.5</i>
39. Furniture, other manufacturing n.e.c.	36	332+39		36
40. Furniture	361	332		36.1
41. Other manufacturing n.e.c.	369	39		36.2 thro' 36.6
42. Recycling	37	NA		37
43. ELECTRICITY, GAS & WATER SUPPLY	40+41	4		40+41
44. CONSTRUCTION	45	5		45
45. SERVICES SECTOR	50 thro' 99	6 thro' 9		50 thro' 99
46. Wholesale, retail trade & repair of motor vehicle, etc.	50 thro' 52	61+62+6(part)		50 thro' 52
47. Hotels & restaurants	55	63		55
48. Transport & storage	60 thro' 63	71		60 thro' 63
49. Communications	64	72		64
50. Post	641			64.1
51. Telecommunications	642			64.2
52. Financial intermediation (including insurance)	65 thro' 67	81+82		65 thro' 67
53. Real estate, renting & business activities	70 thro' 74	83+932		70 thro' 74
54. Computer & related activities	72	8323		72
55. <i>Software consultancy</i>	<i>722</i>			<i>72.2</i>
56. <i>Other computer services n.e.c.</i>	<i>72 less 722</i>			<i>72 less 72.2</i>
57. Research & development	73	932		73
58. Other business activities n.e.c.	70+71+74	83(part)		70+71+74
59. Community, social & personal service activities, etc.^a	75 thro' 99	9 less 932		75 thro' 99
60. TOTAL BUSINESS ENTERPRISE SECTOR	01 thro' 99	1 thro' 9		01 thro' 99

a. Activities carried out in these industries by the Business Enterprise sector only. Figures are expected to be negligible: the heading is included as an aide-memoire.

ANBERD

A. Country coverage:

R&D expenditure data from 1973 to 1995 by industry are available for fifteen of the largest OECD R&D performing countries, namely Australia, Canada, Denmark, Finland, France, West Germany as well as Germany, Ireland, Italy, Japan, the Netherlands, Norway, Spain, Sweden, the United Kingdom and the United States.

The industrial sectors (ISIC Revision 2) covered by ANBERD are:

ISIC	Description
1 3000	Total manufacturing
2 3100	Food, beverages & tobacco
3 3200	Textiles, apparel & leather
4 3300	Wood products & furniture
5 3400	Paper, products & printing
6 3500	Chemical products
7 3510+3520-3522	Chemicals excl. drugs
8 3522	Drugs & medicines
9 3530+3540	Petroleum refineries & products
10 3550+3560	Rubber & plastic products
11 3600	Non-metallic mineral products
12 3700	Basic metal industries
13 3710	Iron & steel
14 3720	Non-ferrous metals
15 3800	Fabricated metal products
16 3810	Metal products
17 3820-3825	Non-electrical machinery
18 3825	Office & computing equipment
19 3830-3832	Electrical machines excl. comm.
20 3832	Radio, TV & communication equip.
21 3841	Shipbuilding & repairing
22 3843	Motor vehicles
23 3845	Aircraft
24 3849	Other transport equipment, nec
25 3850	Professional goods
26 3900	Other manufacturing
27 4+5+6+7+8+9	Total Services
28 4	Electricity, Gas & Water
29 5	Construction
30 71	Transport & Storage
31 72	Communications
32 8324c	Commercial & Engineering Services
33 6+8-8324+9c	Other Services
34	TOTAL BUSINESS ENTERPRISE

The paper publication also covers in ISIC Revision 3:

35	50...52	Wholesale,Ret.Trad.,Mot.Veh.Repair etc
36	55	Hotels & Restaurants
37	60...63	Transport & Storage
38	64	Communications
39	641	Post
40	642	Telecommunications
41	65...67	Financ. Intermediation (inc. Insur.)
42	70...74	Real Estate, Renting & Busin. Activ.
43	72	Computer & Related Activities
44	722	Software Consultancy
45	72...722	Other Computer Services nec
46	73	Research & Development
47	70+71+74	Other Business Activities nec
48	75...99	Comm., Soc. & Pers. Serv. Activ.,etc.

The timeframe availability concerning ANBERD data is the following :

ANBERD	ISIC Rev.2						
As of 24 June 1997							
	3825	3832	3845	3850	72	8324	6+8-8324+9
Australia	73-94	73-94	73-94	73-94	na	76-94	76-94
Canada	73-95	73-95	73-95	73-95	73-95	73-95	73-95
Denmark	73-95	73-95	73-95	73-95	73-95	73-93	73-93
Germany	73-95	73-95	73-95	73-95	na	73-93	73-93
Finland	73-95	73-95	73-95	73-95	73-95	73-95	73-95
France	73-95	73-95	73-95	73-95	na	75-91	73-95
Italy	73-95	73-95	73-95	73-95	73-95	73-95	77-95
Japan	73-95	na	73-95	73-95	73-95	na	79-81
Ireland	73-95	73-95	73-95	73-95	73-95	74-95	84-95
Netherlands	73-95	73-94	73-94	73-94	na	73-93	73-93
Norway	73-95	73-95	86-95	73-95	73-95	73-95	73-95
Spain	73-94	73-94	73-94	73-94	73-94	79-94	73-94
Sweden	73-94	73-94	73-94	73-94	na	na	na
United Kingdom	73-95	73-95	73-95	73-95	75-95	1978	75-95
United States	73-94	73-94	73-94	73-94	na	na	na

ANBERD / Services

As of 24 June 1997	Wholesale,Ret. Trad.,Mot.Veh. Repair etc	Communi- cation	Comp.& rel.activ.	R&D	Total Serv.
ISIC Rev.3	50 .. 52	64	72	73	
Australia	na	na	87-94	na	87-94
Canada	87-96	87-96	87-96	87-96	87-96
Denmark	87-95	87-95	87-95	93-95	87-95
Germany	na	na	na	91-93	91-93
Finland	na	1995	1995	na	87-95
France	na	na	92-94	na	87-94
Italy	92-96	87-96	87-96	87-96	87-96
Japan	na	87-94	na	na	87-94
Ireland	93-95	93-95	93-95	87-95	87-95
Netherlands	1994	na	na	1994	87-94
Norway	91-95	87-95	91-95	87-95	87-95
Spain	87-94	87-94	87-94	87-94	87-94
Sweden	1993	na	na	na	91-93
United Kingdom	87-95	87-95	87-95	87-95	87-95
United States	na	na	87-94	87-94	87-94

ANRSE

ANRSE As of 24 June 1997	ISIC Rev.2	Number of Researchers (expressed in Full Time Equivalent, except for Japan, in headcount)					
	3825	3832	3845	3850	72	8324	6+8-8324+9
Canada	73-94	73-94	73-94	73-94	73-94	73-94	73-94
Germany	73-94	73-94	73-94	73-94	73-83	73-89	73-89
France	73-94	73-94	73-94	73-94	n.a.	76-94	76-94
Italy	73-94	73-94	73-94	73-94	73-94	73-94	73-94
Japan	79-94	79-94	79-94	79-94	na	na	na
United Kingdom	73-94	73-94	73-94	73-94	75-81	75-81	75-81
United States	73-94	73-94	73-94	73-94	na	na	na

STIU

STIU / BERD ISIC rev.2 / Total FINBERD			
as of June 1997			
	Off. mach. & computer	TV., Radio & Comm. Equip.	Aircraft
countries	3825	3832	3845
Australia	1984	1984,1986	1984,1986
Austria	1984	1984	1984
Belgium	1983,1985,1987	1983,1985,1987	1983,1985,1987
Canada	1982-1987	1982-1987	1982-1987
Denmark	1983,1985,1987	1983,1985,1987	n.a.
Finland	1983	1983,1987	1983
France	1982-1987	1982-1987	1982-1987
Germany	n.a.	n.a.	1983,1985,1987
Greece	1986	1986	1986
Iceland	1983,1985	1983,1985,1987	1983,1985,1987
Ireland	1985,1987	1982-87	1982-87
Italy	1982-87	1982-87	1982-87
Japan	n.a.	1982-87	1982-87
New Zealand	1987	1987	n.a.
Norway	1982-87	1982-87	1982-87
Portugal	n.a.	n.a.	n.a.
Spain	1982-87	1982-87	1982-87
Sweden	1983-87	1983-87	1983
United Kingdom	1983-87	1983-87	1983,1985,1987
United States	n.a.	1987	1982-87

STIU / BERD ISIC rev.3 / Total as of June 1997														
countries	Off. mach. & Electron. computer		Electron. equipm. compon.		TV., Radio & Comm. Equip.		Wholesale & ret. trade, Mot. veh.		Communi- Telecommunications		Computer & Software related services		Research & Development	
	30	32	321	32 less 321	50-52	64	642	72	722	73				
Australia	1992,1994	1988-94	1988-94	1988-94	1988-94	1988-91	n.a.	1988-94	1988-94	1988-94	1988-94	1988-94	1988-94	1988-94
Austria	1989,1993	1989,1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1989,1993
Belgium	1987-88	1987-88	n.a.	n.a.	1989-91	n.a.	n.a.	1989-91	n.a.	n.a.	n.a.	n.a.	n.a.	1987-88
Canada	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96	1987-96
Czech Republic	1992-95	1992-95	1992-95	1992-95	n.a.	1992-95	1992-95	n.a.	1992-95	1992-95	1992-95	1992-95	1992-95	1992-95
Denmark	1987-93	1987-93	n.a.	n.a.	1987-93	1987-93	n.a.	1987-93	1987-93	1987-93	1987-93	1987-93	1987-93	1992-93
Finland	1989,1995	1987-95	n.a.	n.a.	1994-95	1987-95	n.a.	1994-95	1987-95	1994-95	1994-95	1994-95	1994-95	1987-95
France	1987-94	1987-94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1992-94	1992-94	n.a.	n.a.	n.a.
Germany	1989-93	1987-93	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1987-93
Greece	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93	1988-93
Hungary	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95
Iceland	1987	1989-92	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1993-96	1993-96	1993-96	1991-96
Ireland	1987-95	1987-95	1992-95	1992-95	1987-95	1987-95	1987-95	1987-95	1987-95	1992-95	1992-95	1992-95	1992-95	1987-95
Italy	1987-96	1987-96	1987-96	1987-96	1992-96	1987-96	1987-96	1992-96	1987-96	1993-96	1987-96	1993-96	1993-96	1987-96
Korea	1995	1995	1995	1995	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Japan	n.a.	1987-95	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1987-95	n.a.	n.a.	n.a.	n.a.	n.a.
Mexico	1992-95	1992-95	n.a.	1992-95	1992-93	1992-95	1992-95	1992-93	1992-95	1992-95	1992-95	1992-95	1992-95	1992-95
Netherlands	n.a.	n.a.	n.a.	n.a.	1994-95	n.a.	n.a.	1994-95	n.a.	n.a.	n.a.	n.a.	n.a.	1994-95
New Zealand	1987-93	1987-93	n.a.	n.a.	1990-93	1990	n.a.	1990-93	1990	1990-93	1990-93	1990-93	1990-93	1990-93
Norway	1987-93	1987-93	n.a.	n.a.	1991-93	1987-93	1989-93	1991-93	1987-93	1991-93	1991-93	1993	1993	1987-93
Poland	1994-95	1994-95	1994-95	1994-95	n.a.	1994-95	n.a.	n.a.	1994-95	1994-95	1994-95	1994-95	1994-95	1994-95
Portugal	n.a.	n.a.	1988-95	n.a.	n.a.	1988-95	n.a.	n.a.	1988-95	n.a.	n.a.	n.a.	n.a.	1992-95
Spain	1987-94	1987-94	1987-94	1987-94	1987-94	1987-94	1992-94	1987-94	1987-94	1992-94	1987-94	1992-94	1992-94	1987-94
Sweden	1987-93	1987-93	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Turkey	n.a.	1990-95	1990-95	1990-95	1990	1990-95	1990-95	1990-95	1990-95	1990-95	1993-95	1993-95	1993-95	n.a.
United Kingdom	1987-95	1987-95	n.a.	1987-95	1987-95	1987-95	1987-95	1987-95	1987-95	1987-95	1987-95	1987-95	1987-95	1987-95
United States	1993-94	1987-94	1987-94	1987-90	n.a.	n.a.	n.a.	n.a.	n.a.	1992-94	1992-94	n.a.	n.a.	1993-94

STIU / PRDE (ISIC rev.3 / Full Time Equivalent) as of June 1997												
Business Enterprises R&D Personnel by Industry, Total R&D personnel Full Time Equivalent												
countries	30	32	321	32 less	50-52	64	642	72	722	73		
	Off. mach. & computer	Electron. equipm.	Electron. compon.	TV., Radio & Comm. Equip.	Wholesale & ret.trade	Communi- cations	Telecom- munications	Computer & related services	Software Consultancy	Research & Development		
Australia	1990-94	1990-94	1990-94	1990-94	1990-94	n.a.	n.a.	1990-94	1990-94	1990-94	1990-94	
Canada	1990-94	1990-94	1990-94	1990-94	1990-94	n.a.	n.a.	1990-94	n.a.	1990-94	1990-94	
Czech Republic	1995	1995	1995	1995	1995	1995	1995	n.a.	n.a.	1995	1995	
Denmark	1990-93	1990-93	1990-93	n.a.	1990-93	1990-93	1990-93	1990-93	1990-93	1990-93	1990-93	
Finland	n.a.	1991-94	n.a.	n.a.	n.a.	1991-94	n.a.	n.a.	n.a.	1991-94	1991-94	
France	1990-94	1990-94	n.a.	n.a.	n.a.	n.a.	n.a.	1990-94	1990-94	1990-94	1990-94	
Germany	1991,1993	1991,1993	n.a.	n.a.	1991,1993	n.a.	n.a.	n.a.	n.a.	1991,1993	1991,1993	
Greece	1991	1991	n.a.	n.a.	1991	1991	1991	1991	1991	1991	1991	
Hungary	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	1993-95	
Ireland	1990,1993	1990,1993	1990,1993	1990,1993	1990,1993	1990,1993	1990,1993	1990,1993	1990,1993	1990,1993	1990,1993	
Japan	n.a.	1991-95	n.a.	n.a.	n.a.	1991-95	n.a.	n.a.	n.a.	n.a.	n.a.	
Mexico	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	
Norway	1991,1993	1991,1993	n.a.	n.a.	1991,1993	1991,1993	1991,1993	1991,1993	1991,1993	1991,1993	1991,1993	
Poland	n.a.	1994-95	1994-95	1994-95	n.a.	1994-95	n.a.	1994-95	1994-95	1994-95	1994-95	
Portugal	n.a.	1992,1995	n.a.	n.a.	n.a.	1992,1995	n.a.	n.a.	n.a.	1992,1995	1992,1995	
Spain	1990-93	1990-93	1990-93	1990-93	1990-93	n.a.	n.a.	n.a.	n.a.	1990-93	1990-93	
Sweden	1991,1993	1991,1993	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Turkey	1990-93	1990-93	1990-93	1990-93	n.a.	1990-93	n.a.	1990-93	1990-93	1990-93	n.a.	

PATENTS**Patents (USPTO data)****Patents granted in the US**

Classification : ISIC Rev.2 / IPC

Manufacturing sector only.

3825 1975-95

3832 1975-95

3845 1975-95

3850 1975-95

Countries : All OECD countries

30 non OECD countries

For the United States, breakdown by origin :

(US inventor owned, Fed.Gov.owned, US Company owned)

Other zones EU

World

Input output Tables

22. The OECD Input-Output database provides internationally-comparable input-output tables in both current and constant price terms for several time points from 1970 to 1990 for ten OECD countries: Australia, Canada, Denmark, France, Germany, Italy, Japan, the Netherlands, the United Kingdom and the United States. The unique features of this database are:

- its international comparability based on the use of a common industrial classification (ISIC Revision 2, 36 sectors), which allows the distinction of high-technology, trade-oriented industries such as pharmaceutical, computers, communication equipment, automobiles and aircraft;
- the distinction of transaction flows of goods and services between domestically produced and imported ones;
- the inclusion of consistent capital investment flow matrices as supporting tables.

23. Detail availability is shown in the table below.

OECD Input-Output Database Coverage					
	pre-1973	mid/late-1970s	early-1980s	mid-1980s	1990
Australia*	1968	1974		1986	1989
Canada	1971	1976	1981	1986	1990
Denmark	1972	1977	1980	1985	1990
France	1972	1977	1980	1985	1990
Germany		1978		1986, 1988	1990
Italy				1985	
Japan	1970	1975	1980	1985	1990
Netherlands	1972	1977	1981	1986	
United Kingdom	1968	1979		1984	1990
United States	1972	1977	1982	1985	1990

* Australian data refer to fiscal years beginning on the 1st July of the year indicated.

The 36 industrial sectors (ISIC Revision 2) covered by I/O are:

ISIC	Description
1 1	Agriculture, forestry and fishery
2 2	Mining and quarrying
3 31	Food, beverages & tobacco
4 32	Textiles, apparel & leather
5 33	Wood products & furniture
6 34	Paper, products & printing
7 351+352-3522	Chemicals excl. drugs
8 3522	Drugs & medicines
9 353+354	Petroleum refineries & products
10 355+356	Rubber & plastic products
11 36	Non-metallic mineral products
12 371	Iron & steel
13 372	Non-ferrous metals
14 381	Metal products
15 382-3825	Non-electrical machinery
16 3825	Office & computing equipment
17 383-3832	Electrical machines excl. comm.
18 3832	Radio, TV & communication equip.
19 3841	Shipbuilding & repairing
20 3842+3844+3849	Other transport
21 3843	Motor vehicles
22 3845	Aircraft
23 385	Professional goods
24 39	Other manufacturing
25 4	Electricity, Gas & Water
26 5	Construction
27 61+62	Wholesale & retail trade
28 63	Restaurants & hotels
29 71	Transport & Storage
30 72	Communications
31 81+82	Finance & insurance
32 83	Real Estate & business services
33 9	Community, social & personal services
34	Producers of government services
35	Other producers
36	Statistical discrepancy

Value added sectors

- o Compensation of employees
- o Operating surplus
- o Consumption of fixed capital
- o Indirect taxes, net

Final demand sectors

- o Private domestic final consumption expenditures
- o Gross fixed capital formation (GFCF)
- o Changes in stocks
- o Government consumption
- o Exports

24. Based on more recent national I/O tables, as listed below, the EAS division has calculated the share of ICT products, in the total final expenditure components (private Consumption, Government Expenditure, GFCF, Exports, Imports, and Total final expenditure), both in current and base-year prices. ICT products are defined as shown in the table xx below.

Final demand matrix by products	
	year (s)
Canada	1986, 1992
Japan	1985, 1994
France	1985, 1996
Netherlands	1986, 1993
United States	1987, 1993

See document ref. DSTI/EAS/IND/SWP(97)4, forthcoming.

Table xx. **Information and communication technology products**

Country	Product	Price change ¹	Real price change ²	Unadjusted price change minus quality-adjusted price change ³
Average percentage change at annual rate				
Canada 1986-92	Computers, office machinery, excl. photo and fax	-11.9	-15.3	10.0
	Radio, TV, stereo, VCR and unrecorded tape	2.3	-1.0	2.0
	Telephone and related equipment	0.6	-2.7	2.0
	Broadcasting and radio communication equipment	2.0	0.2	-3.1
	Radar and radio navigation equipment	2.0	-1.3	2.0
	Electronic equipment components	-2.7	-6.1	10.0
	Telephone and other telecommunications	-1.5	-4.9	2.0
Computer services	-3.6	-7.0	2.0	
France 1985-96	Office machinery and computers	-8.7	-11.4	10.0
	Professional electronic equipment (incl. communication equipment)	0.6	-2.1	5.0
	Household electronic appliances (radio, TV sets, recorders)	-3.7	-6.3	2.0
	Scientific and precision instruments	3.7	1.0	2.0
	Telecommunication and postal services	-2.0	-4.6	2.0
Japan 1985-94	Office machinery, exc. computers	0.8	-0.7	2.0
	Household electric equipment	0.7	-0.8	2.0
	Electric computing equipment and accessory devices	-7.0	-8.5	10.0
	Communication equipment	-9.5	-11.0	2.0
	Applied electronic equipment	-14.1	-15.6	2.0
	Electric measuring instruments	1.6	0.1	2.0
	Semi-conductor devices and integrated circuits	-5.6	-7.1	10.0
	Electronic tubes	-1.0	-2.5	2.0
	Precision instruments	-0.4	-1.9	2.0
	Communication	-1.4	-2.9	2.0
Netherlands 1986-93	Photocopiers, computers, office machinery and parts	-4.4	-5.7	10.0
	Weighting machinery	1.2	-0.1	2.0
	Transmitters, receivers and combinations	0.7	-0.5	2.0
	Electronic valves	-0.1	-1.3	2.0
	Printed circuits: elements	-1.7	-2.9	10.0
	Navigation instruments	1.1	-0.1	2.0
	Medical equipment	1.3	0.0	2.0
	Instruments and appliances for measuring, checking and testing	1.2	0.0	2.0
	Telephones and telegraphs	-1.4	-2.6	2.0
	Radios	-4.3	-5.6	2.0
	TV receivers	-1.9	-3.1	2.0
	TV cameras	-3.0	-4.3	2.0
	Videorecorders	-3.8	-5.0	2.0
	Microphones	-0.7	-2.0	2.0
	Communication services	2.2	0.9	2.0
	Computer services	-1.9	-3.2	2.0
United States 1987-93	Computer and office equipment	-16.8	-20.4	10.0
	Household audio and video equipment	-4.8	-8.4	2.0
	Communications equipment	1.6	-1.9	10.0
	Electronic components and accessories	-5.5	-9.1	2.0
	Measuring and controlling devices	3.3	-0.2	2.0
	Communications	1.5	-2.1	2.0
Computer and data processing services	0.3	-3.3	2.0	

1. Implicit deflator of final demand (excluding variations in stocks), based on input-output tables at producer prices.
 2. Price change of ICT product minus price change of all products.
 3. Assumed average annual percentage point difference between unadjusted and fully quality-adjusted deflators. See Boxes 1 and 2 for a review of empirical studies and justification.
- Source: National input-output tables; OECD. Document DSTI/EAS/IND/SWP(97)4, forthcoming.

IV. Trade related statistics :

Foreign Trade System

The table below summarize the trade data availability of the database

Trade data (NEXT database, and Foreign Trade System Database).

Available for the OECD Member countries

Classification and level of availability:

Harmonised System (from 1988). 6 digits level /6

SITC Rev.2 and Rev.3 5 digits level / 5

For all the Member countries, data available from 1961 to 1995 in SITC Rev.2 or since 1988 in SITC Rev.3.

(SITC Rev.3 since 1989 only for Turkey and United States.)

Except for :

Mexico	1993-95
Hungary	1995
Czech Republic	1992-95
Poland	1992-95
Korea	1994-95

Non member countries

China	1992-95
Chinese Taipeh	1991, 1993-95
Hong Kong	1994-95

1996 data are already available for :

Canada, France, Ireland, Iceland and Sweden.

For Australia, HS is available for 1995 only.

Statistics Finland provide a list of ICT products based on SITC Rev.3 which might constitute an example of selection. Hereafter are the main headings of the products. For detail, see Statistics Finland (1997), *On the Road to the Finnish Information Society*, p.94

The information-intensive industrial products typical for information Society/Industry, main products headings:

1. Telecommunication Equipment
2. Consumer Electronics
3. Computers
4. Office machines
5. Medical electronics
6. Industrial electronics
7. Electronic components

Source: Statistics Finland (1997), *On the Road to the Finnish Information Society*, p.94.

BILAT

The Bilateral trade database (BTD) shows detailed trade flows by manufacturing industry from one country (or geographical area) to another. For each declaring country, exports to and imports from corresponding partner countries are supplied for the years 1970-1994. The data have been converted from the OECD Statistics Directorate's Foreign Trade by Commodities data system and are presented in thousands of US dollars at current prices with a currency conversion matrix of US dollars exchange rates and US PPPs.

Coverage of Bilateral Trade Database

Data are provided for the following declaring countries:

Australia, Austria, Belgium/Luxembourg, Canada, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom and United States.

The following partner countries are included:

All the OECD countries above plus the Czech and Slovak Republics, Hungary, Poland, Argentina, Brazil, Hong Kong, India, Indonesia, Malaysia, Mexico, Philippines, Singapore, Korea (South), Thailand, China, Taiwan, Rest of World (other non-OECD countries combined), Total World, Total G7, Total European Union, Total OECD and Total non-OECD.

Trade flows are given for the following industrial sectors (based on ISIC Revision 2):

ISIC	Description
3000	Total manufacturing
3100	Food, beverages & tobacco
3200	Textiles, apparel & leather
3300	Wood products & furniture
3400	Paper, products & printing
3500	Chemical products
3510+3520-3522	Chemicals excl. drugs
3522	Drugs & medicines
3530+3540	Petroleum refineries & products
3550+3560	Rubber & plastic products
3600	Non-metallic mineral products
3700	Basic metal industries
3710	Iron & steel
3720	Non-ferrous metals
3800	Fabricated metal products
3810	Metal products
3820-3825	Non-electrical machinery
3825	Office & computing equipment
3830-3832	Electrical machines excl. comm.
3832	Radio, TV & communication equip.
3841	Shipbuilding & repairing
3843	Motor vehicles

3845	Aircraft
3849	Other transport equipment, nec
3850	Professional goods
3900	Other manufacturing

Timeframe availability is shown in the table below:

BILAT		Classification :	
		ISIC Rev.2, based on SITC Rev.1, 2 or 3 or HS (from NEXT database).	
		Manufacturing only.	
		Level : 2 digit level, except some 4 digit for 3825, 3832, 3845.	
		Country of origin - World/OECD/EEC/and detailed countries, including non OECD countries.	
23 countries		Export	Import
Australia		70-94	70-94
Austria		70-94	70-94
Belgium		70-94	70-94
Canada		70-94	70-94
Denmark		70-94	70-94
Germany		70-94	70-94
Finland		70-94	70-94
France		70-94	70-94
Greece		70-94	70-94
Italy		70-94	70-94
Japan		70-94	70-94
Iceland		70-94	70-94
Ireland		70-94	70-94
Ireland		70-94	70-94
Netherlands		70-94	70-94
Norway		70-94	70-94
New Zealand		70-94	70-94
Portugal		70-94	70-94
Spain		70-94	70-94
Sweden		70-94	70-94
Switzerland		70-94	70-94
United Kingdom		70-94	70-94
United States		70-94	70-94

V. Services related statistics :**Services Statistics**

Service activities now account for most of value added and provide most employment in virtually all OECD Member countries. A data base showing the growth of the service sector in terms of value added and employment is available, where data are shown for 26 OECD countries at the finest level of detail available in national sources. So far as data are available, series cover the period from 1970 to 1995.

Services are defined as all activities in major divisions 6 through 9 of the International Standard Industrial Classification of all Economic Activities, Revision 2 (ISIC Rev.2):

- 6 Wholesale and retail trade and restaurants and hotels
- 7 Transport, storage and communication
- 8 Financing, insurance, real estate and business services
- 9 Community, social and personal services

Although from national accounts source, the data are compatible with ISIC Rev.2 classification at 2 digit level. When going into more detailed level, the categories may be not strictly comparable between countries.

For more detail, see the publication 'Services: Statistics on Value Added and Employment, 1997 Edition', p. 5 to 30, OECD (1998).

The table below shows the availability country by country for selected ICT related industries ISIC Rev.2.

Services Statistics on Value Added and Employment			
as of June 1997			
countries	time	Variables¹	industries (ISIC Rev.2)
Austria	1970-94	VA, VAK(1976, 1983)	2.2 / 4.3
Australia	1970-93	VA	2.2
	1974-93	VAK (1989-90)	2.2 / 4.3
	1984-93	EMPN	2.2 / 4.3
Belgium	1970-94	VA, VAK(1975, 1980, 1985), EMPN, EMPE	2.2
Canada	1970-92	VA, EMPN	2.2.1 / 2.2.2 / 4.3.1 / 4.3.2 / 5.9
	1970-95	VAK (1986)	2.2.1 / 2.2.2 / 4.3.1 / 4.3.2 / 5.9
Denmark	1970-94	VA, VAK (1980), EMPN, EMPE	2.2 / 4.3
Finland	1970-94	VA, VAK (1980, 1990), EMPN, EMPE	2.2
France	1970-94	VA, VAK (1980), EMPN, EMPE	2.2 / 4.3
West Germany	1970-93	VA, VAK (1991), EMPN, EMPE	2.2
Greece	1970-93	VA, VAK (1991)	2.2
Ireland	1986-93	VA	2.2
Iceland	1973-1992	VA, VAK (1980, 1990), EMPN	2.2 / 4.3
	1990-1993	EMPE	2.2 / 4.3
Italy	1970-94	VA, VAK (1985), EMPN, EMPE	2.2
Luxembourg	1970-91	VA, VAK (1985), EMPN, EMPE	2.2
Norway	1970-95	VA, VAK (various years), EMPN, EMPE	2.2 / 5.1.6
	1970-92	VAK (various years), EMPN, EMPE	4.3 / 5.2.5
New Zealand	1986-92	VA	2.2 / 4.3
Netherlands	1970-92	VA, VAK (Prev. year), EMPN, EMPE	2.2 / 4.3
Portugal	1977-89	VA, VAK (1985)	2.2 / 4.3
	1980-92	EMPN, EMPE	
Spain	1980-92	VA, VAK (1980,1986)	2.2
Sweden	1980-94	VA, VAK (1980,1985,1991), EMPN, EMPE	2.2.1 / 2.2.2 / 4.3
United States	1970-93	VA, VAK (1982/1987), EMPN, EMPE	2.2.1 / 2.2.2 / 4.3.1 / 4.3.2

1. List of variables listed in the table below.
2. 1991-95 for services.

List of variables	
Variables	Name of variables
VA	Gross Value Added
VAK (xx)	Value Added at 19xx constant prices
EMPN	Total employment
EMPE	Employees
Number	Corresponding industry (ISIC Rev. 2)
2.2	Communication
2.2.1	Telephone and telegraph
2.2.2	Radio, and television broadcasting.
4.3	Recreational and cultural services
4.3.1	Motion pictures
4.3.2	Amusement and recreation services
5.1.6	Producers of central Government services / Recreational and cultural services
5.2.5	Producers of local Government services / Recreational and cultural services
5.9	Producers of Government services / Communications

International Trade in Services

The database compiles and assesses available information on Member's countries international trade in services for the period from 1970 to 94.

The balance-of-payments data that have been assembled reflect transactions between residents of the reporting countries and non-residents. They do not include sales of services channelled through foreign affiliates (often referred to as "establishment trade"), which are traditionally outside the scope of balance of payments accounts, because such affiliates are treated as non-residents, and their sales abroad represent transactions between non-residents.

The structure is derived from the Standard Components of the Balance of Payments included in the Balance of Payments Manual of the International Monetary Fund (IMF). "Total services" in the database corresponds, by and large, to the table "Services" for Industrial Countries plus Turkey in the IMF Balance of Payments Yearbook. The four main categories correspond with IMF categories as follows:

1. Travel is identical to the IMF category "Travel".
2. Transportation corresponds to the IMF categories "Shipment" and "Other Transportation" minus merchandise insurance.
3. Government services corresponds to the IMF category "Other Official Goods, Services and Income".
4. Other services corresponds to the IMF category "Other Private Goods, Services and Income" plus merchandise insurance and minus property income (not included elsewhere) and labour income.

Apart from these four categories, available for all Members, there are figures for a number of items (which may vary from country to country) representing subdivisions of Categories 2 and 4.

It should be noted that these data are collected on the basis of national methods and definitions which are often divergent and thus not fully comparable from one country to another.

The categories detailed in the table are extracted from the list below:

Total services

1. Travel
2. Transportation
 - 2.1 Freight
 - 2.2 Passenger fares
 - 2.3 Port services
 - 2.4 Other
3. Government Services
 - 3.1 Military transactions
 - 3.2 Other
 - 3.3 Expenditures of foreign government and international organisations
4. other services
 - 4.1 Insurance
 - 4.2 Commissions and brokerage
 - 4.3 Films and television
 - 4.4 Construciotn/engineering
 - 4.5 Communications
 - 4.6 overhead expenses
 - 4.7 Processing and repair
 - 4.8 Advertising
 - 4.9 Merchanting
 - 4.10 Consultancy and technical cooperation

- 4.11 Banking
- 4.12 Rentals
- 4.13 Computer and related services
- 4.14 Legal services

International Trade in Services					
as of June 1997					
countries	Films & television 4.3	Communications 4.5	Management services	Advertising 4.8	Computer Services 4.13
Austria	1970-94	1970-94	n.a.	n.a.	n.a.
Belgium	1970-94	n.a.	n.a.	1970-94	n.a.
Canada	1972-94	1973-94	1973-94	1973-94	1981-94
Denmark	1972-94	n.a.	n.a.	n.a.	n.a.
Finland	1975-94	1975-94	n.a.	1975-94	n.a.
France	1988-94	1988-94	1973-94	1988-94	n.a.
Germany	1970-94	1970-94	1970-94	1970-94	1986-94
Greece	n.a.	1973-94	n.a.	n.a.	n.a.
Ireland	n.a.	1974-94	n.a.	n.a.	n.a.
Italy	1973-94	1983-94	n.a.	1983-94	1990-94
Japan	1970-94	n.a.	1970-94	1970-94	n.a.
Luxembourg	n.a.	n.a.	n.a.	1970-94	n.a.
Netherlands	1973-94	n.a.	1973-94	n.a.	n.a.
Norway	1973-94	1973-94	1992-94	1982-94	1982-94
Portugal	n.a.	1993-94	n.a.	n.a.	n.a.
Spain	1980-94	1980-94	1980-94	1980-94	n.a.
Sweden	n.a.	n.a.	n.a.	1970-94	n.a.
Switzerland	n.a.	1970-94	n.a.	n.a.	n.a.
United Kingdom	1970-94	1970-94	1970-94	1970-94	1992-94
United States	1970-94	1970-94	1980-94	1986-94	1986-94

Source : *Statistics on International Transactions 1970-1994*, OECD, 1996.

VI. *Statistics on capital :***Flows and Stocks of Fixed Capital database**

Flows and Stocks of Fixed Capital as of June 1997				
countries	time	Variables ¹	Prices	Industries
Australia	1966-94	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2	Current / Constant (1989/90)	Wholesale & retail trade / Recreation, personnel & other services
Canada	1960-96	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2, R0, R1, R2	Current / Constant (1986)	Printing, publishing and allied industries / Communication / Trade
Denmark	1965-92	G0, G1, G2, N0, N1, N2, D0	Current / Constant (1986)	Communication / Wholesale and retail trade / Business services
Finland	1960-95	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2, R0, R1, R2	Current / Constant (1990)	Transport and communication
France	1955-95	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2, R0, R1, R2	Current / Constant (1980/90)	Trade / Transport and communication
West Germany	1970-93	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2, R0, R1, R2	Current / Constant (1991)	Manuf. of office mach., data processing equipm. / Printing and duplication / Wholesale and retail trade / Transport and communication
Japan	1955-94	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2, R0, R1, R2	Current / Constant (1970/80/85/90)	Electrical machinery, equipment & supplies/ Printing, publishing and allied industries/ Trade (incl. eating & drinking places)
Italy	1980-95	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2	Current / Constant (1990)	Wholesale and retail trade
Sweden	1980-94	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0	Current / Constant (1991)	Trade
United Kingdom	1955-91	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2, R0, R1, R1	Current / Constant (1985)	Transport and communication
United States	1955-93	G0, G1, G2, N0, N1, N2, F0, F1, F2, D0, D1, D2, R0, R1, R2	Current / Constant (1987)	Electronic and other electric equipment / Printing and publishing/ Communication /

1. List of variables listed in the table below.

List of variables

Variables	Name of variables
G0	Gross Stock Total
G1	Gross Stock Structures
G2	Gross Stock Equipment
N0	Net Stock Total
N1	Net Stock Structures
N2	Net Stock Equipment
F0	GFCF Total
F1	GFCF Structures
F2	GFCF Equipment
D0	Cap. consumption Total
D1	Cap. consumption Structures
D2	Cap. consumption Equipment
R0	Discards Total
R1	Discards Structures
R2	Discards Equipment

VII. *Information and Communication Technologies*

The OECD developed an experimental database on ICC statistics in the late 1980s. The ICC database covered a broad range of variables including production, trade, employment, the structure of the ICC sector as well as expenditures on ICT by various sectors, for the years 1982 to 1988. The data were derived from official statistical surveys developed for other purposes.

There were, however, big gaps in the data. Some of the reasons for the gaps were not specific to the ICT field - for example, services statistics in general were less developed than statistics on other sectors of the economy. Others arose from the lack of a clear conceptual definition and boundaries of the ICC field, constraints imposed by the need to respect statistical confidentiality of data in countries where there were a small number of ICC producers, and difficulties in transforming data collected on the basis of national classifications into internationally compatible data because standard international classifications for industrial activities, products and occupations were all being revised at the time.

Progress in providing a definition and boundaries of the ICC field, made in the late 80s, slightly improved data collection. Nevertheless, reflecting the evolving priorities of the ICCP Committee at that time, the database was archived in 1991, pending the finalisation of the then ongoing revisions of standard international classifications and their implementation for data collection in Member countries.

Telecommunication database

A telecommunication database with time series data available from 1980, has been developed in association with the bi-annual Communication Outlook publication. Data are drawn from a number of sources, such as questionnaires, governmental databases, annual reports and the International Telecommunication Union (ITU).

The OECD Telecommunications Database 1997 includes the following series of data, for all OECD countries except Poland and Korea, covering the period 1980-1995.

CODE	Description
MAINLINES	Mainlines
DIGITAL	Percent of digital mainlines
CEL SUB	Cellular subscribers
PAYPHO	Payphones
PAY PHO CAR	Percent of payphones that are cardphones
HOSTS	Internet hosts
STAFF	Total staff in telecommunications services
MAIN INH	Mainlines per 100 inhabitants
ML PER EMP	Mainlines per employee
PAYPHO INH	Payphones per 1 000 inhabitants
ASR	Answer seizure ratio
TOT REV 1	Total revenue of the operators, in local currency and current prices
TOT REV 2	Total revenue of the operators, in local currency and constant 1995 prices
TOT REV 3	Total revenue of the operators, in US dollars and constant 1995 exchange rates and prices
REV SERV	Revenue from telephone service, in local currency and current prices
REV CONN	Revenue from connection, in local currency and current prices
REV LINE	Revenue from line rental charges, in local currency and current prices

REV CALL	Revenue from call charges, in local currency and current prices
TOT EXP 1	Total operating expenditure of operators, in local currency and current prices
TOT EXP 2	Total operating expenditure of operators, in local currency and constant 1995 prices
TOT EXP 3	Total operating expenditure of operators, in US dollars and constant 1995 exchange rates and prices
DEP	Depreciation of operators, in local currency and current prices
TAX	Taxes paid by operators, in local currency and current prices
ASSETS	Total assets of operators, in local currency and current prices
REV PER CAP 1	Total revenue per capita, in local currency and current prices
REV PER CAP 2	Total revenue per capita, in local currency and constant 1995 prices
REV PER CAP 3	Total revenue per capita, in US dollars and constant 1995 exchange rates and prices
REV PER EMP 1	Total revenue per employee, in local currency and current prices
REV PER EMP 2	Total revenue per employee, in local currency and constant 1995 prices
REV PER EMP 3	Total revenue per employee, in US dollars and constant 1995 exchange rates and prices
REV PER ML 1	Total revenue per mainline, in local currency and current prices
REV PER ML 2	Total revenue per mainline, in local currency and constant 1995 prices
REV PER ML 3	Total revenue per mainline, in US dollars and constant 1995 exchange rates and prices
TOT REV GDP	Total revenue as % of Gross Domestic Product, GDP
INV 1	Investment of operators, in local currency and current prices
INV 2	Investment of operators, in local currency and constant 1995 prices
INV 3	Investment of operators, in US dollars and constant 1995 exchange rates and prices
INV PER ML 1	Investment per mainline, in local currency and current prices
INV PER ML 2	Investment per mainline, in local currency and constant 1995 prices
INV PER ML 3	Investment per mainline, in US dollars and constant 1995 exchange rates and prices
INV PER CAP 1	Investment per capita, in local currency and current prices
INV PER CAP 2	Investment per capita, in local currency and constant 1995 prices
INV PER CAP 3	Investment per capita, in US dollars and constant 1995 exchange rates and prices
INV PER REV	Investment as % of total revenue
INV PER GFCF	Investment as % of Gross Fixed Capital Formation, GFCF
OUT MITT	Outgoing Minutes of International Telecommunications Traffic, MITTs
TRA BAL EQT	Trade balance in telecommunications equipment, in US dollars
TOT EXP EQT	Total export of telecommunications equipment, in US dollars
EXP TEL	Export of telephone sets, in US dollars
EXP TRA	Export of transmission equipment, in US dollars
EXP RCV	Export of receiver terminals, in US dollars
EXP LIN	Export of line equipment, in US dollars
TOT IMP EQT	Total import of telecommunication equipment, in US dollars
IMP TEL	Import of telephone sets, in US dollars
IMP TRA	Import of transmission equipment, in US dollars
IMP RCV	Import of receiver terminals, in US dollars
IMP LIN	Import of line equipment, in US dollars
GDP 1	Gross Domestic Product, GDP, in local currency and current prices
GDP 2	Gross Domestic Product, GDP, in local currency and constant 1995 prices

GDP 3	Gross Domestic Product, GDP, in US dollars and constant 1995 exchange rates and prices
GDP PER CAP 1	Gross Domestic Product, GDP, per capita, in local currency and current prices
GDP PER CAP 2	Gross Domestic Product, GDP, per capita, in local currency and constant 1995 prices
GDP PER CAP 3	Gross Domestic Product, GDP, per capita, in US dollars and constant 1995 exchange rates and prices
GFCF 1	Gross Fixed Capital Formation, GFCF, in local currency and current prices
GFCF 2	Gross Fixed Capital Formation, GFCF, in local currency and constant 1995 prices
GFCF 3	Gross Fixed Capital Formation, GFCF, in US dollars and constant 1995 exchange rates and prices
INH	Inhabitants
EMPLT	Civilian employment
EXCH	Annual average exchange rates to US\$
PPPS	US\$ exchange rates based on PPPs
CPI	Consumer price index 1995 level
GFCF IDX	Gross Fixed Capital Formation, GFCF, index 1995 level

VIII. Prices

Although there is no database on prices related to ICT goods and services, the following tables provide insight on the availability of the work related to this topic in various member countries. For the references mentioned, see the source of the above tables.

Table 1. Computer prices: empirical evidence

Price and volume measures of **mainframe computers, personal computers and peripheral equipment** have been the subject of a series of studies. Typically, these studies employ hedonic regression methods to derive quality-adjusted price computer price indices. From the table below it is apparent that: i) fully quality-adjusted computer prices fell at considerably faster rates than indices based on more traditional pricing techniques. For example, Berndt et al. (1995) report an unweighted mean price change of a sample of personal computers of -10.9 percent per year. Full quality-adjustment raises this rate to -31.9 percent, a 20 percentage-point difference. ii) quality-adjusted price changes vary between products: prices of peripheral equipment (printers, disk drives etc.) tended to fall less rapidly than those of desktop computers or mainframes. Consequently, price measures at the industry level such as the office machinery and computer industry are likely to be sensitive to the composition of the product mix. However, for most products in the industry, a difference of 10 percentage points between quality-adjusted and unadjusted price index can be considered a lower bound and in all simulations about the potential impact of the quality-adjustment of office machinery and computer industries, this difference has been employed. (Boskin et al. use a 15 percentage point bias to assess the overall effect on the United States consumer price index).

Author	Subject	Period	Average percentage change at annual rate
Triplett (1989) United States	Computer 'system', hedonic quality adjustment	1972-84	-16.3
Flamm (1987) United States	Computer 'system', hedonic quality adjustment	1957-72 1972-78	-23.9 -13.7
Cole et al. (1986) United States	Disk drives, hedonic quality adjustment	1957-72 1972-84	-27.9 -13.4
	Printers, hedonic quality adjustment	1972-84	-14.8
	Displays, hedonic quality-adjustment	1972-84	-7.6
Dulberger (1989)	Computers, hedonic quality-adjustment	1972-84	-19.4
Gordon (1989), United States	Mainframes and minicomputers, hedonic quality-adjustment	1972-84	-20.0
Berndt et al. (1995) United States	Personal computers, unadjusted (unweighted mean price change of models)	1989-92	-10.9
	Personal computers, matched-model (quality adjusted, but limited to models that existed in Portable computers, hedonic quality-adjustment	1989-92	-19.3
	Desktop computers, hedonic quality-adjustment	1989-92	-23.9 -31.9
Oliner (1993), United States	Mainframe computers, hedonic quality-adjustment	1977-84	-26.0
Berndt and Griliches (1993), United States	Microcomputers, hedonic quality-adjustment	1982-88	-28.0
Shiratsuka (1995), Japan	Personal computers, hedonic quality-adjustment	1990-94	-20.0 - 25.0
Sadée (1996), United States	Mainframe computers, hedonic quality-adjustment	1985-94	-10.5
	Personal computers, hedonic quality-adjustment	1985-94	-19.4
	Disk drives, hedonic quality-adjustment	1985-94	-4.6
	Printers and other peripherals, hedonic quality-adjustment	1985-94	-16.9
	Terminals, hedonic quality-adjustment	1985-94	-20.4
INSEE (1997), France	Microcomputers, hedonic quality-adjustment	1988-96	-32.5
Baldwin et al. (1997), Japan	General purpose and personal computers, matched-model	1985-92	-9.0

Source : OECD, document ref. DSTI/EAS/IND/SWP(97)4, forthcoming.

Table 2. Prices of other ICT products: empirical evidence

Radio, TV, appliances and communication equipment constitute another import ICT product group, including items such as telephones, fax machines, radio and TV sets and VCRs. For appliances and radio-TV, Gordon (1990) reports an estimated upwards price bias of just above 3 percentage points for appliances and close to 6 percentage points for radio-TV. Boskin et al. (1996) estimate the overall bias at 3 percent for appliances, 4 percent for radio-TV including VCRs. For the purpose of the present report, and where these products can be distinguished, a 2 percentage point bias is assumed as a lower bound. No comprehensive studies exist on quality change in communication equipment goods but the appearance of many new features in telephone equipment, the emergence of cellular phones, improvement in quality and convenience of fax machines would seem to justify a similar difference of 2 percentage points between adjusted and unadjusted rates of price change.

Semiconductors are the ICT products that have probably experienced the most rapid decline in quality-adjusted prices. Triplett (1996) reports on world-wide semiconductor price indices, produced by Grimm (1995) for seven different types of memory chips and two types of microprocessor chips. Between 1985 and 1994, semiconductor prices fell at rates of 31 percent per year (microprocessor chips), 19.7 percent (memory chips) and 24.7 percent (semiconductors). Where product-level data are available, this compares with unadjusted price indices that fall by 7.2 percent (Japan) and 1 percent (Netherlands - although this relates to a somewhat broader product category). Again, 10 percentage points are adopted as a lower bound for the possible bias due to absence of quality-adjustment or sampling methods that understate true price changes.

Author	Subject	Period	Average percentage change at annual rate
Grimm (1995) World market prices	Semiconductors, hedonic quality-adjustment	1974-94 1985-94	-39.9 -24.7
Norsworthy and Jang (1993)	Semiconductors, used in computer industry, hedonic quality-adjustment	1969-86	-20.7
Dulberger (1993)	Metal oxygen on silicon memory chips, hedonic quality-adjustment	1977-88	between -26.5 % and -38.0 %, depending on index number formula

Scientific and measurement instruments are another category of ICT products. Developments in ICT have significantly influenced scientific instruments and the way these are used by scientists. The kind of computer-based tools that are used vary by discipline. In some disciplines, greater computing power has allowed better visualisation of results, and has significantly improved modelling, simulation and computational analysis. In other disciplines, scientific instruments have been revolutionised by miniaturisation, or by the development of virtual instruments. This has significantly lowered the costs of some instruments and has also made scientific instruments more flexible (OECD, forthcoming). There are few systematic studies of quality-adjusted price measures. Among those carried out, Trajtenberg's (1990) work on CT Scanners has shown the most striking results: while the unadjusted price index for scanners rises by about 50 percent over 5 years and hedonic methods show a decline by 30 percent, Trajtenberg's technique that aims at capturing the full welfare effects of innovation, marks a 50 percent fall of the price index. The picture becomes even more pronounced as earlier years are taken into account. Although CT Scanners may not be representative for the entire product group 'instruments' they certainly confirm more anecdotal evidence on the advancement of performance of instruments in the medical area, such as laser-based operating equipment or ICT-based devices for micro-surgery.

Source : OECD, document ref. DSTI/EAS/IND/SWP(97)4, forthcoming.

Table 3. Prices of other ICT products: empirical evidence

Computer and communication services. Empirical studies on price indices of computer services are scarce. However, there is some evidence on the price development in the software industry. A study by Gandal (1994) on hedonically adjusted price indices of spreadsheets in the United States produces a yearly average decline of 15 percent. Harhoff and Moch(1996) construct hedonic and matched-model indices for PC database software in Germany. Their results show a 7.4 percent decline between 1986 and 1994. Harhoff and Moch explain the difference in price declines by differences in market structures, by the fact that Gandal's study relates to spreadsheets and theirs to database software and by the observation that their prices are transaction prices while Gandal's observations are based on list prices: "in Germany and the United States, software producers were forced to bring down list prices because list prices were about two to three times higher than the respective 'street' prices" (Harhoff and Moch, p. 17). This would explain a sharper decline in list prices than in street prices. Other evidence on software prices was produced by Oliner and Sichel (1994) who constructed a matched-model index for PC application software between 1985 and 1993. The price decline that they note is much smaller than Gandal's - on average just less than 3 percent per year. Finally, Statistics Canada employ a software price index in the construction of Canadian SNA input-output tables that declines by 6 percent per year. This estimate was constructed by observing the trend of software prices over time for popular PC software. While not a fully-fledged hedonic measure, it observes the same rules and the results are in line with other studies. For the simulations in this paper, a 2 percentage point difference has been chosen to reflect the deviance of fully (hedonically) adjusted price indices for software from partial or unadjusted price indices.

Author	Subject	Period	Average percentage change at annual rate
Gandal (1994) United States	Spreadsheets, list prices, hedonic quality-adjustment		-15.0%
Oliner and Sichel (1994) United States	Word processors, matched-model index	1985-93	-2.6%
		1987-93	-1.1%
	Spreadsheets, matched-model index	1985-93	-4.5%
	Data bases, matched-model index	1985-93	-4.7%
Harhoff and Moch (1996) Germany	Data bases, 'street' prices, hedonic quality-adjustment	1986-94	-7.4

Source : OECD, document ref. DSTI/EAS/IND/SWP(97)4, forthcoming.

ANNEX

**ISIS Database
ISIC Rev.2**

Note : Two kind of sources : industrial surveys (IS) and national accounts (NA).

The variables are the following :

ISIS / List of the variables. ISIC Rev.2, ISIC Rev.3

EXPO	Exports
IMPO	Imports
IMPOK	Imports (constant price)
EMPE	Number of employees
EMPF	Number of female employed
EMPN	Total employment (number engaged)
EMPO	Number of operative employed
ESTB	Number of establishments
ESUP	Supplement to wages & salaries (social costs)
GFCF	Investment
GFCFK	Investment
GFEQ	Investment in machinery and equipment
GFEQK	Investment in machinery and equipment (constant price)
PROD	Production
PRODK	Production (constant price)
VALU	Value added
VALUK	Value added
VAFC	Value added at factor costs
WASE	Wages & salaries of employees
WASN	Wages & salaries of number engaged
WASO	Wages & salaries of operative
MHOU	Hours worked by operative
EHOU	Hours worked by employees
ENTR	Number of enterprises
PRFV	Production at factor costs
REME	Remuneration of employees
REMN	Remuneration
REMO	Remuneration of operative
CAPS	<i>ISIC Rev.3 only</i> Capital stock

Industries are available in ISIC Rev.2 at 4 digit level, except for services, where when available it is at 2 digit level.

The 134 industrial sectors (ISIC Revision 2) covered in ISIS are:

No.	ISIC	Description
1	31	Food, Beverages and Tobacco
2	311-2	Food manufacturing
3	311	Food products
4	3111	Slaughtering, preparing and preserving meat
5	3112	Dairy products
6	3113	Canning and preserving of fruits and vegetables
7	3114	Canning, preserving and processing of fish, crustacea and similar foods

8	3115	Vegetable and animal oils and fats
9	3116	Grain mill products
10	3117	Bakery products
11	3118	Sugar factories and refineries
12	3119	Cocoa, chocolate and sugar confectionery
13	312	Other food products
14	3121	Food products not elsewhere classified
15	3122	Prepared animal feeds
16	313	Beverage industries
17	3131	Distilling, rectifying and blending spirits
18	3132	Wine industries
19	3133	Malt liquors and malt
20	3134	Soft drinks and carbonated waters industries
21	314	Tobacco manufactures
22	32	Textile, Wearing Apparel and Leather Industries
23	321	Textiles
24	3211	Spinning, weaving and finishing textiles
25	3212	Made-up textile goods except wearing apparel
26	3213	Knitting mills
27	3214	Carpets and rugs
28	3215	Cordage, rope and twine industries
29	3219	Textiles nec
30	322	Wearing apparel, except footwear
31	323	Leather and products of leather, leather substitutes and fur, except footwear and wearing apparel
32	3231	Tanneries and leather finishing
33	3232	Fur dressing and dyeing industries
34	3233	Products of leather and leather substitutes, except footwear and wearing apparel
35	324	Footwear, except vulcanised or moulded rubber or plastic footwear
36	33	Wood and Wood Products, including Furniture
37	331	Wood and wood and cork products, except furniture
38	3311	Sawmills, planing and other wood mills
39	3312	Wooden and cane containers and small cane ware
40	3319	Wood and cork products nec
41	332	Furniture and fixtures, except primarily of metal
42	34	Paper and Paper Products; Printing and Publishing
43	341	Paper and paper products
44	3411	Pulp, paper and paperboard
45	3412	Containers and boxes of paper and paperboard
46	3419	Pulp, paper and paperboard articles nec
47	342	Printing, publishing and allied industries
48	35	Chemicals and Chemical, Petroleum, Coal, Rubber and Plastic Products
49	351	Industrial chemicals
50	3511	Basic industrial chemicals except fertilizer
51	3512	Fertilizers and pesticides
52	3513	Synthetic resins, plastic materials and man-made fibres except glass
53	352	Other chemical products
54	3521	Paints, varnishes and lacquers

55	3522	Drugs and medicines
56	3523	Soap and cleaning preparations, perfumes, cosmetics and other toilet preparations
57	3529	Chemical products nec
58	353	Petroleum refineries
59	354	Miscellaneous products of petroleum and coal
60	355	Rubber products
61	3551	Tyre and tube industries
62	3559	Rubber products nec
63	356	Plastic products nec
64	36	Non-Metallic Mineral Products, except Products of Petroleum and Coal
65	361	Pottery, china and earthenware
66	362	Glass and glass products
67	369	Other non-metallic mineral products
68	3691	Structural clay products
69	3692	Cement, lime and plaster
70	3699	Non-metallic mineral products nec
71	37	Basic Metal Industries
72	371	Iron and steel basic industries
73	372	Non-ferrous metal basic industries
74	38	Fabricated Metal Products, Machinery and Equipment
75	381	Fabricated metal products, except machinery and equipment
76	3811	Cutlery, hand tools and general hardware
77	3812	Furniture and fixtures primarily of metal
78	3813	Structural metal products
79	3819	Fabricated metal products except machinery and equipment n.e.c.
80	382	Machinery except electrical
81	3821	Engines and turbines
82	3823	Agriculture machinery and equipment
83	3823	Metal and wood working machinery
84	3824	Special industrial machinery and equipment except metal and wood working machinery
85	3825	Office, computing and accounting machinery
86	3829	Machinery and equipment, except electrical nec
87	383	Electrical machinery apparatus, appliance and supplies
88	3831	Electrical industrial machinery and apparatus
89	3832	Radio, television and communication equipment and apparatus
90	3833	Electrical appliances and housewares
91	3839	Electrical apparatus and supplies nec
92	384	Transport equipment
93	3841	Shipbuilding and repairing
94	3842	Railroad equipment
95	3843	Motor vehicles
96	3844	Motorcycles and bicycles
97	3845	Aircraft
98	3849	Transport equipment nec
99	385	Professional and scientific and measuring and controlling equipment nec, and of photographic and optical goods
100	3851	Professional and scientific, and measuring and controlling equipment nec

101	3852	Photographic and optical goods
102	3853	Watches and clocks
103	39	Other Manufacturing Industries
104	3901	Jewellery and related articles
105	3902	Musical instruments
106	3903	Sporting and athletic goods
107	3909	Manufacturing industries nec
108	3	Manufacturing
109	1	Agriculture, Hunting, Forestry and Fishing
110	2	Mining and Quarrying
111	21	Coal Mining
112	22	Crude Petroleum and Natural Gas Production
113	23-9	Metal and Other mining
114	23	Metal Ore Mining
115	2301	Iron ore mining
116	2302	Non-ferrous ore mining
117	29	Other Mining
118	2901	Stone quarrying, clay and sand pits
119	2902	Chemical and fertilizer mining
120	2903	Salt mining
121	2909	Mining and quarrying, nec
122	4	Electricity, Gas and Water
123	41	Electricity, Gas and Steam
124	4101	Electric light and power
125	4102	Gas manufacture and distribution
126	4103	Steam and hot water supply
127	42	Water Works and Supply
128	5	Construction
129	6-9	Services
130	6	Wholesale and Retail Trade and Restaurants and Hotels
131	7	Transport, Storage and Communication
132	8	Financing, Insurance, Real Estate and Business Services
133	9	Community, Social and Personal Services
134	0000	Grand Total

The industries selected were originally the following :

342	Printing, publishing and allied industries
3825	Office, computing and accounting machinery
3832	Radio, television and communication equipment and apparatus
3845	Aircraft
385	Professional and scientific and measuring and controlling equipment nec, and of photographic and optical goods
6-9 (code 6900)	Services
6000	Wholesale and Retail Trade and Restaurants and Hotels
7000	Transport, Storage and Communication
8000	Financing, Insurance, Real Estate and Business Services
9000	Community, Social and Personal Services

If they do not appear in the tables, that means that they are not available for the corresponding country.

Country codes are :

AUS = Australia
 AUT= Austria
 BEL=Belgium
 CAN=Canada
 CHE=Switzerland
 DNK=Denmark
 ESP=Spain
 FIN=Finland
 FRA=France
 GBR=United Kingdom
 GER=Germany
 GRC=Greece
 IRL=Ireland
 ITA=Italy
 JPN=Japan
 KOR=Korea
 MEX=Mexico
 NLD=Netherlands
 NOR=Norway
 NZL=New Zealand
 PRT=Portugal
 SWE=Sweden
 TUR=Turkey
 USA=United States

AUS / IS	industry									
variables	S3420	S3825	S3832	S3845	S3850	S6000	S6900	S7000	S8000	S9000
EMPN	1967-92	1978-92	1967-92	1987-92	1967-92	1991-94	1991-94	1991-94	1991-94	1991-94
ESTB	1967-92	1978-92	1967-92	1984-92	1967-92	n.a.	n.a.	n.a.	n.a.	n.a.
GFCF	1967-90	1978-90	1967-90	1990-90	1967-90	1991-94	1991-94	1991-94	1991-94	1991-94
GFEQ	1967-90	1978-90	1967-90	n.a.	1967-90	n.a.	n.a.	n.a.	n.a.	n.a.
PROD	1967-92	1978-92	1967-92	1987-92	1967-92	n.a.	n.a.	n.a.	n.a.	n.a.
VALU	1975-90	1975-90	1975-90	1975-90	1975-90	n.a.	1978-78	n.a.	n.a.	n.a.
WASE	1967-92	1978-92	1967-92	1987-92	1967-92	1991-94	1991-94	1991-94	1991-94	1991-94

AUT / IS	industry			
variables	S3420	S3832	S3845	S3850
EMPE	1969-94	1969-94	1983-94	1969-94
EMPF	1990-94	1990-94	1993-94	1990-94
EMPN	1969-94	1969-94	1983-94	1969-94
ESTB	1969-94	1969-94	1984-94	1969-94
ESUP	1975-94	1975-94	1983-94	1975-94
GFCF	1969-94	1969-94	1977-94	1969-94
GFEQ	1969-94	1969-94	1983-94	1969-94
PROD	1969-94	1969-94	1977-94	1969-94
VALU	1969-94	1969-94	1977-94	1969-94
WASE	1969-94	1969-94	1983-94	1969-94
WASO	1990-94	1990-94	1992-94	1990-94

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BEL / NA	industry					
variables	S3420	S3825	S3832	S3845	S3850	S6900
EMPE	1975-92	n.a.	n.a.	n.a.	n.a.	1975-92
EMPN	1975-92	n.a.	n.a.	n.a.	n.a.	1975-92
ESTB	1980-94	n.a.	n.a.	n.a.	1980-94	1993-94
EXPO	1970-87	1970-87	1970-87	1970-87	1970-87	1970-87
GFCF	1975-95	n.a.	n.a.	n.a.	n.a.	1975-95
GFCFK	1982-95	n.a.	n.a.	n.a.	n.a.	1982-95
GFEQ	1982-95	n.a.	n.a.	n.a.	n.a.	1982-95
GFEQK	1982-95	n.a.	n.a.	n.a.	n.a.	1982-95
IMPO	1970-87	1970-87	1970-87	1970-87	1970-87	1970-87
PROD	1975-95	n.a.	n.a.	n.a.	n.a.	n.a.
VAFC	1975-95	n.a.	n.a.	n.a.	n.a.	1975-95
VALU	1975-95	n.a.	n.a.	n.a.	n.a.	1975-95
VALUK	1982-95	n.a.	n.a.	n.a.	n.a.	1982-95
WASE	1975-94	n.a.	n.a.	n.a.	1975-94	1975-94

CAN / IS	industry						
variables	S3420	S3825	S3832	S3845	S3850	S6000	S6900
EMPE	1967-94	1967-94	1967-94	1979-94	1967-94	n.a.	n.a.
EMPF	1991-91	1991-91	1991-91	1991-91	1991-91	n.a.	n.a.
EMPN	1967-94	1967-94	1967-94	1987-94	1967-94	n.a.	n.a.
EMPO	1988-94	1988-94	1988-94	1988-94	1988-94	n.a.	n.a.
ESTB	1967-94	1967-94	1967-94	1987-94	1967-94	1991-94	n.a.
GFCF	1967-90	1979-82	1967-90	1979-82	1967-90	n.a.	1979-82
GFEQ	1967-90	1979-82	1967-90	1979-82	1967-90	n.a.	1979-82
MHOU	1988-94	1988-94	1988-94	1988-94	1988-94	n.a.	n.a.
PROD	1967-94	1967-94	1967-94	1979-94	1967-94	1991-94	n.a.
VALU	1967-94	1967-94	1967-94	1979-94	1967-94	1991-91	n.a.
WASE	1967-94	1967-94	1967-94	1979-94	1967-94	1991-94	n.a.
WASO	1988-94	1988-94	1988-94	1988-94	1988-94	n.a.	n.a.

CHE / NA

	industry	
variables	S3420	S6900
EMPN	1970-95	1970-95
EXPO	1970-95	n.a.
EXPOK	1970-95	n.a.
IMPO	1970-95	n.a.
IMPOK	1970-95	n.a.
PROD	1970-95	1970-95
PRODK	1970-95	1970-95
VALU	1970-95	1970-95
VALUK	1970-95	1970-95

DNK / IS	industry									
variables	S3420	S3825	S3832	S3845	S3850	S6000	S6900	S7000	S8000	S9000
EMPE	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92
EMPF	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92	1990-92
EMPN	1967-92	1971-92	1967-92	1990-92	1967-92	1990-92	1990-92	1990-92	1990-92	1990-92
ESTB	1967-92	1971-92	1967-92	1990-92	1967-92	1990-92	1990-92	1990-92	1990-92	1990-92
GFCF	1980-91	1983-91	1980-91	n.a.	1980-91	n.a.	n.a.	n.a.	n.a.	n.a.
GFEQ	1980-91	1983-91	1980-91	n.a.	1980-91	n.a.	n.a.	n.a.	n.a.	n.a.
MHOU	1988-89	1988-89	1988-89	n.a.	1988-89	n.a.	n.a.	n.a.	n.a.	n.a.
PROD	1967-91	1971-91	1967-91	n.a.	1967-91	n.a.	n.a.	n.a.	n.a.	n.a.
VALU	1967-91	1971-91	1967-91	n.a.	1967-91	n.a.	n.a.	n.a.	n.a.	n.a.
WASN	1967-92	1971-92	1967-92	1990-92	1967-92	1990-92	1990-92	1990-92	1990-92	1990-92

DNK / NA	industry		
variables	S3420	S3832	S3850
EMPE	1970-92	1970-92	1970-92
EMPN	1970-92	1970-92	1970-92
EXPO	1970-92	1970-92	1970-92
GFCF	1970-92	n.a.	n.a.
IMPO	1970-92	1970-92	1970-92
PROD	1970-92	1970-92	1970-92
REMN	1970-92	1970-92	1970-92
VALU	1970-92	1970-92	1970-92

ESP / IS	industry				
variables	S3420	S3825	S3832	S3845	S3850
EHO	1984-92	1984-92	1984-92	1984-92	1984-92
EMPE	1967-92	1978-92	1978-92	1983-92	1967-92
EMPN	1967-92	1978-92	1978-92	1978-92	1967-92
EMPO	1988-92	1988-92	1988-92	1988-92	1988-92
ESTB	1967-92	1978-92	1978-92	1978-92	1967-92
ESUP	1978-92	1978-92	1978-92	1978-92	1978-92
GFCF	1967-92	1978-92	1978-92	1978-92	1978-92
GFEQ	1988-92	1988-92	1988-92	1988-92	1988-92
MHOU	1988-92	1988-92	1988-92	1988-92	1988-92
PROD	1967-92	1978-92	1978-92	1978-92	1967-92
REMN	1978-92	1978-92	1978-92	1978-92	1978-92
REMO	1983-88	1983-88	1983-88	1983-88	1983-88
VALU	1967-92	1978-92	1978-92	1978-92	1967-92
WASE	1967-92	1978-92	1978-92	1979-92	1967-92
WASO	1988-92	1988-92	1988-92	1988-92	1988-92

DSTI/ICCP/AH(98)2

FIN / NA	industry		
variables	S3420	S3850	S6900
EMPN	1970-91	1990-91	1970-91
GFCF	1970-91	n.a.	1970-91
GFCFK	1975-91	n.a.	1975-91
GFEQ	1970-91	n.a.	1970-91
GFEQK	1975-91	n.a.	1975-91
MHOU	1986-91	1990-91	1986-91
PROD	1970-91	1990-91	1970-91
PRODK	1975-91	1990-91	1975-91
VALU	1970-91	1990-91	1970-91
VALUK	1975-91	1990-91	1975-91
WASN	1970-91	1990-91	1970-91

FIN / IS	industry								
variables	S3420	S3825	S3832	S3845	S3850	S6000	S7000	S8000	S9000
EHO	1975-94	1975-94	1975-94	1975-94	1975-94	n.a.	n.a.	n.a.	n.a.
EMPE	1967-94	1967-94	1967-94	1979-94	1967-94	n.a.	n.a.	n.a.	n.a.
EMPN	1967-94	1967-94	1967-94	1970-94	1967-94	n.a.	n.a.	n.a.	n.a.
ESTB	1967-94	1967-94	1967-94	1980-94	1967-94	n.a.	n.a.	n.a.	n.a.
ESUP	1967-94	1967-94	1967-94	1979-94	1967-94	n.a.	n.a.	n.a.	n.a.
EXPO	1985-89	1985-89	1985-89	1985-89	1985-89	n.a.	n.a.	n.a.	n.a.
GFCF	1967-94	1967-94	1967-94	1979-94	1967-94	n.a.	n.a.	n.a.	n.a.
GFEQ	1967-94	1967-94	1967-94	1979-94	1967-94	n.a.	n.a.	n.a.	n.a.
IMPO	1975-91	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
MHOU	1975-93	1975-93	1975-93	1975-93	1975-93	n.a.	n.a.	n.a.	n.a.
PROD	1967-94	1967-94	1967-94	1979-94	1967-94	n.a.	n.a.	n.a.	n.a.
REME	1979-94	1979-94	1979-94	1979-94	1979-94	n.a.	n.a.	n.a.	n.a.
REMO	1988-94	1988-94	1988-94	1988-94	1988-94	1988	1988	1988	1988
VALU	1967-94	1967-94	1967-94	1979-94	1967-94	n.a.	n.a.	n.a.	n.a.
WASE	1967-94	1967-94	1967-94	1975-94	1967-94	n.a.	n.a.	n.a.	n.a.
WASO	1975-94	1975-94	1975-94	1975-94	1975-94	1988	1988	1988	1988

FRA / NA	industry							
variables	S3420	S3845	S3850	S6000	S6900	S7000	S8000	S9000
EMPE	1974-96	n.a.	1974-96	1989-96	1974-96	1989-96	1989-96	1989-96
EMPN	1974-96	n.a.	1974-96	1989-96	1974-96	1989-96	1989-96	1989-96
EXPO	1970-85	n.a.	1970-85	n.a.	1970-85	n.a.	n.a.	n.a.
EXPOK	1970-85	n.a.	1970-85	n.a.	1970-85	n.a.	n.a.	n.a.
GFCF	1970-96	n.a.	n.a.	1989-96	1970-96	1989-96	1989-96	1989-96
GFCFK	1970-96	n.a.	n.a.	1989-96	1970-96	1989-96	1989-96	1989-96
GFEQ	1977-96	n.a.	n.a.	1989-96	1977-96	1989-96	1989-96	1989-96
GFEQK	1977-96	n.a.	n.a.	1989-96	1977-96	1989-96	1989-96	1989-96
IMPO	1970-85	n.a.	1970-85	n.a.	1970-85	n.a.	n.a.	n.a.
IMPOK	1970-85	n.a.	1970-85	n.a.	1970-85	n.a.	n.a.	n.a.
PROD	1977-95	1977-95	1977-95	1982-95	1977-95	1982-95	1982-95	1982-95
PRODK	1977-95	1977-95	1977-95	1982-95	1977-95	1982-95	1982-95	1982-95
REM	1977-92	1977-92	1977-92	1982-92	1977-92	1982-92	1982-92	1982-92
VALU	1977-95	1977-95	1977-95	1982-95	1977-95	1982-95	1982-95	1982-95
VALUK	1977-95	1977-95	1977-95	1982-95	1977-95	1982-95	1982-95	1982-95

GBR / IS	industry						
variables	S3420	S3825	S3832	S3845	S3850	S6000	S6900
EMPE	1968-92	1968-92	1968-92	1988-92	1968-92	n.a.	n.a.
EMPF	1992	1992	1992	1992	1992	n.a.	n.a.
EMPN	1968-92	1968-92	1968-92	1979-92	1968-92	n.a.	n.a.
ESTB	1968-92	1968-92	1968-92	1981-92	1968-92	n.a.	n.a.
ESUP	1973-92	1973-92	1973-92	1979-92	1973-92	n.a.	n.a.
EXPO	1973-94	1973-94	1973-94	1978-94	1978-94	1986-94	1978-94
GFCF	1968-92	1968-92	1968-92	1979-92	1968-92	n.a.	n.a.
GFEQ	1968-92	1968-92	1968-92	1979-92	1968-92	n.a.	n.a.
IMPO	1973-94	1973-94	1973-94	1978-94	1978-94	n.a.	1978-94
PRFV	1968-91	1968-91	1968-91	1979-91	1968-91	n.a.	n.a.
PROD	1968-92	1968-92	1968-92	1979-92	1968-92	n.a.	n.a.
REME	1973-92	1973-92	1973-92	1979-92	1973-92	n.a.	n.a.
VALU	1968-92	1968-92	1968-92	1979-92	1968-92	n.a.	n.a.
WASE	1968-92	1968-92	1968-92	1979-92	1968-92	n.a.	n.a.
WASO	1981-92	1981-92	1981-92	1988-92	1981-92	n.a.	n.a.

GER / NA	industry				
variables	S6000	S6900	S7000	S8000	S9000
EMPE	1981-93	1981-93	1981-93	1981-93	1981-93
EMPF	1981-93	1981-93	1981-93	1981-93	1981-93
EMPN	1981-93	1981-93	1981-93	1981-93	1981-93
Grand Total	1981-93	1981-93	1981-93	1981-93	1981-93

GRC / IS	industry			
variables	S3420	S3825	S3832	S3850
EMPE	1970-92	1971-92	1970-92	1970-92
EMPN	1970-92	1971-92	1970-92	1970-92
ESTB	1970-92	1971-92	1970-92	1970-92
ESUP	1980-92	1980-92	1980-92	1980-92
GFCF	1967-92	1974-92	1970-92	1967-92
GFEQ	1967-92	1974-92	1970-92	1967-92
MHOU	1981-92	1981-92	1981-92	1981-92
PROD	1967-92	1971-92	1967-92	1967-92
REME	1989-92	1989-92	1989-92	1989-92
VALU	1967-92	1974-92	1967-92	1967-92
WASE	1967-92	1971-92	1967-92	1967-92
WASO	1981-92	1981-92	1981-92	1981-92

DSTI/ICCP/AH(98)2

IRL / IS	industry				
variables	S3420	S3825	S3832	S3850	
EMPE	1967-90	1973-90	1973-90	1973-90	
EMPF	1985-90	1985-90	1985-90	1985-90	
EMPN	1967-90	1973-90	1973-90	1973-90	
ESTB	1967-90	1973-90	1973-90	1973-90	
GFCF	1967-90	1973-90	1973-90	1973-90	
GFEQ	1967-90	1973-90	1973-90	1973-90	
PROD	1967-90	1973-90	1973-90	1973-90	
VALU	1967-90	1973-90	1973-90	1973-90	
WASE	1967-90	1973-90	1973-90	1973-90	
WASO	1985-90	1985-90	1985-90	1985-90	

ITA / IS	industry					
variables	S3420	S3825	S3832	S3845	S3850	S6900
EMPE	1967-91	1983-91	1983-91	1989-91	1967-91	1987-88
EMPF	1991	1991	1991	1991	1991	n.a.
EMPN	1967-91	1983-91	1983-91	1989-91	1967-91	1987-88
ESTB	1989-91	1989-91	1989-91	1989-91	1989-91	n.a.
ESUP	1967-91	1983-91	1983-91	1989-91	1967-91	1987-88
GFCF	1967-91	1983-91	1983-91	1989-91	1967-91	1987-88
GFEQ	1967-91	1983-91	1983-91	1989-91	1967-91	1987-88
MHOU	1987-91	1989-91	1989-91	1989-91	1987-91	n.a.
PROD	1967-91	1983-91	1983-91	1989-91	1967-91	1987-88
REMN	1967-91	1983-91	1983-91	1989-91	1967-91	1987-88
VALU	1967-91	1983-91	1983-91	1989-91	1967-91	1987-88

JPN / IS	industry									
variables	S3420	S3825	S3832	S3845	S3850	S6000	S6900	S7000	S8000	S9000
EMPN	1967-93	1967-93	1967-93	1984-93	1967-93	1989-93	1989-93	1989-93	1989-93	1989-93
ESTB	1981-93	1981-93	1981-93	1984-93	1981-93	n.a.	n.a.	n.a.	n.a.	n.a.
GFCF	1967-93	1967-93	1967-93	1984-93	1967-93	n.a.	n.a.	n.a.	n.a.	n.a.
GFEQ	1967-91	1967-91	1967-91	n.a.	1967-91	n.a.	n.a.	n.a.	n.a.	n.a.
PROD	1967-93	1967-93	1967-93	1984-93	1967-93	n.a.	n.a.	n.a.	n.a.	n.a.
VALU	1967-93	1967-93	1967-93	1984-93	1967-93	n.a.	n.a.	n.a.	n.a.	n.a.
WASE	1967-93	1967-93	1967-93	1984-93	1967-93	n.a.	n.a.	n.a.	n.a.	n.a.

KOR / IS	industry				
variables	S3420	S3825	S3832	S3845	S3850
EMPE	1985-90	1985-90	1985-90	1990	1985-90
EMPF	1990	1990	1990	1990	1990
EMPN	1990	1990	1990	1990	1990
ESTB	1985-90	1985-90	1985-90	1990	1985-90
ESUP	1990	1990	1990	1990	1990
GFCF	1985-90	1985-90	1985-90	1990	1985-90
GFEQ	1990	1990	1990	1990	1990
PROD	1985-90	1985-90	1985-90	1990	1985-90
REME	1990	1990	1990	1990	1990
REMO	1990	1990	1990	1990	1990
VALU	1985-90	1985-90	1985-90	1990	1985-90
WASE	1985-90	1985-90	1985-90	1990	1985-90

MEX / IS	industry			
variables	S3420	S3825	S3832	S3850
EMPE	1984-95	1984-95	1984-95	1984-95
EMPO	1984-94	1989-94	1989-94	1984-94
ESTB	1984-95	1984-95	1984-95	1984-95
ESUP	1984-95	1984-95	1984-95	1984-95
GFCF	1984-91	1984-91	1984-91	1984-91
GFEQ	1984-91	1984-91	1984-91	1984-91
MHOU	1984-94	1984-94	1984-94	1984-91
PROD	1984-95	1984-95	1984-95	1984-95
REME	1984-95	1984-95	1984-95	1984-95
VALU	1984-91	1984-91	1984-91	1984-91
WASE	1984-95	1984-95	1984-95	1984-95
WASO	1984-95	1984-95	1984-95	1984-95

NLD / IS	industry			
variables	S3420	S3825	S3832	S3850
EMPF	1989-92	n.a.	n.a.	1989-92
EMPN	1976-93	1976-84	1980-93	1980-93
ESTB	1984-94	1984	1987-94	1984-94
ESUP	1990-93	n.a.	1990-93	1990-93
EXPO	1988-93	n.a.	1988-93	1988-93
GFCF	1976-93	1976-93	n.a.	1976-93
GFEQ	1976-93	1976-93	n.a.	1976-93
PROD	1978-93	1978-87	1983-93	1980-93
REME	1988-93	n.a.	1988-93	1988-93
VALU	1978-93	1978-87	1983-93	1980-93
WASE	1976-93	1976-87	1983-93	1980-93

DSTI/ICCP/AH(98)2

NOR / IS	industry					
variables		S3420	S3825	S3832	S3845	S3850
EMPE		1967-92	1968-92	1967-92	1982-92	1967-92
EMPN		1967-92	1968-92	1967-92	1975-92	1967-92
ESTB		1967-92	1968-92	1967-92	1975-92	1967-92
ESUP		1982-92	1982-92	1982-92	1982-92	1982-92
GFCF		1967-92	1968-92	1967-92	1975-92	1967-92
GFEQ		1982-92	1982-92	1982-92	1982-92	1982-92
MHOU		1982-92	1982-92	1982-92	1982-92	1982-92
PROD		1967-92	1968-92	1967-92	1975-92	1967-92
REME		1975-92	1975-92	1975-92	1975-92	1975-92
VALU		1975-92	1975-92	1975-92	1975-92	1975-92
WASN		1985-89	1985-89	1985-89	1985-89	1985-89

NOR / NA	industry						
variables		S3420	S3825	S3832	S3845	S3850	S6900
EMPE		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
EMPN		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
ESUP		1970-91	1970-91	1970-91	1970-91	1970-91	1970-91
GFCF		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
GFCFK		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
GFEQ		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
GFEQK		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
IMPO		1967-91	1967-91	1967-91	1967-91	1967-91	1967-91
IMPOK		1967-91	1967-91	1967-91	1967-91	1967-91	1967-91
PROD		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
PRODK		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
REME		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
VALU		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
VALUK		1967-91	1967-91	1967-91	1967-91	1967-91	1981-91
WASE		1981-90	1981-90	1981-90	1981-90	1981-90	1981-90
WASN		1967-90	1967-90	1967-90	1967-90	1967-90	1988-90

NZL / NA	industry						
variables		S3420	S6000	S6900	S7000	S8000	S9000
PROD		n.a.	1978-93	1978-93	1978-93	1978-93	1978-93
REMN		n.a.	1978-93	1978-93	1978-93	1978-93	1978-93
VALU		1987-93	1978-93	1978-93	1978-93	1978-93	1978-93

NZL / IS	industry									
variables	S3420	S3825	S3832	S3845	S3850	S6000	S6900	S7000	S8000	S9000
EHO	1989-94	n.a.	n.a.	n.a.	1989-94	1989-93	1989-94	1989-93	1989-93	1989-93
EMPE	1987-94	1987-94	1987-94	1987-94	1987-94	1990-94	1987-94	1990-94	1990-94	1990-94
EMPF	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94
EMPN	1968-94	1975-94	1968-94	1976-94	1968-94	1990-94	1979-94	1990-94	1990-94	1990-94
ENTR	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94	1990-94
ESTB	1984-90	1984-90	1984-90	1984-90	1984-90	n.a.	1987-90	n.a.	n.a.	n.a.
ESUP	1984-91	1984	1984-87	1984-87	1984-91	n.a.	1988-91	n.a.	n.a.	n.a.
EXPO	1983-94	1983-94	1983-94	1983-94	1983-94	n.a.	1983-94	n.a.	n.a.	n.a.
GFCF	1968-91	1976-84	1968-84	1975-84	1968-91	n.a.	1979-91	n.a.	n.a.	n.a.
GFEQ	1986-91	1987	1987	1987	1986-91	n.a.	1986-91	n.a.	n.a.	n.a.
IMPO	1989-94	1989-94	1989-94	1989-94	1989-94	n.a.	1989-94	n.a.	n.a.	n.a.
PROD	1968-91	1976-87	1968-87	1975-87	1968-91	n.a.	1979-91	n.a.	n.a.	n.a.
REMN	1975-79	1976-79	1975-79	1975-79	1975-79	n.a.	1979	n.a.	n.a.	n.a.
VALU	1968-91	1976-87	1968-87	1975-87	1968-91	n.a.	1979-91	n.a.	n.a.	n.a.
WASE	1968-93	n.a.	1968-74	n.a.	1968-93	1991-93	1991-93	1991-93	1991-93	1991-93
WASN	1982-93	1982-87	1982-87	1982-87	1982-93	1991-93	1986-93	1991-93	1991-93	1991-93
WASO	1991-93	n.a.	n.a.	n.a.	1991-93	1991-93	1991-93	1991-93	1991-93	1991-93

PRT / IS	industry				
variables	S3420	S3825	S3832	S3845	S3850
EMPE	1967-94	1967-89	1967-94	1987-93	1967-94
EMPF	1990-94	n.a.	1990-94	1992-93	1990-94
EMPN	1972-94	1972-94	1972-94	1972-94	1972-94
ENTR	1990-94	1990-94	1990-94	1990-94	1990-94
ESTB	1971-89	1968-89	1971-89	1987-89	1971-89
ESUP	1984-94	1984-89	1984-94	1987-93	1984-94
GFCF	1971-94	1971-94	1971-94	1972-94	1971-94
GFEQ	1971-94	1971-89	1971-94	1987-93	1971-94
MHO	1984-94	1984-89	1984-94	1987-93	1984-94
PROD	1967-94	1967-94	1967-94	1972-94	1967-94
REME	1990-94	1990-94	1990-94	1990-94	1990-94
REMO	1984-87	1984-87	1984-87	n.a.	1984-87
VALU	1971-94	1971-94	1971-94	1972-94	1971-94
WASE	1972-94	1972-89	1972-94	1972-93	1972-94

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SWE / NA	industry									
variables	S3420	S3825	S3832	S3845	S3850	S6000	S6900	S7000	S8000	S9000
EHO	1991-94	n.a.	n.a.	n.a.	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
EMPE	1980-94	n.a.	n.a.	n.a.	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
EMPN	1980-94	n.a.	n.a.	n.a.	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
EXPO	1980-94	1980-94	1980-94	1980-94	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
EXPOK	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
GFCF	1980-94	n.a.	n.a.	n.a.	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
GFCFK	1991-94	n.a.	n.a.	n.a.	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
GFEQ	1980-94	n.a.	n.a.	n.a.	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
GFEQK	1991-94	n.a.	n.a.	n.a.	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
IMPO	1980-94	1980-94	1980-94	1980-94	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
IMPOK	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
PROD	1980-94	n.a.	n.a.	n.a.	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
PRODK	1991-94	n.a.	n.a.	n.a.	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
REMN	1980-94	n.a.	n.a.	n.a.	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
VALU	1980-94	n.a.	n.a.	n.a.	1980-94	1991-94	1980-94	1991-94	1991-94	1991-94
VALUK	1991-94	n.a.	n.a.	n.a.	1991-94	1991-94	1991-94	1991-94	1991-94	1991-94
WASN	1970-88	1970-88	1970-88	1970-88	1970-88	n.a.	n.a.	n.a.	n.a.	n.a.

SWE / IS	industry					
variables	S3420	S3825	S3832	S3845	S3850	S6900
EMPE	1993-94	1993-94	1993-94	1993-94	1993-94	n.a.
EMPN	1967-94	1967-94	1967-94	1970-94	1967-94	n.a.
ESTB	1984-94	1984-94	1984-94	1984-94	1984-94	n.a.
ESUP	1989-94	1989-94	1989-94	1989-94	1989-94	n.a.
EXPO	1973-94	1975-94	1975-94	1975-94	1973-94	1975-79
EXPOK	1991-94	1991-94	1991-94	1991-94	1991-94	n.a.
GFCF	1967-87	n.a.	n.a.	n.a.	1967-87	n.a.
GFEQ	1967-87	n.a.	n.a.	n.a.	1967-87	n.a.
IMPO	1973-94	1975-94	1975-94	1975-94	1973-94	1975-79
IMPOK	1991-94	1991-94	1991-94	1991-94	1991-94	n.a.
MHO	1987-92	1987-92	1987-92	1987-92	1987-92	n.a.
PROD	1967-94	1967-94	1967-94	1970-94	1967-94	n.a.
PRODK	1970-75	n.a.	n.a.	n.a.	1970-75	n.a.
VALU	1967-94	1967-94	1967-94	1970-94	1967-94	n.a.
VALUK	1989-91	1989-91	1989-91	1989-91	1989-91	n.a.
WASE	1993-94	1993-94	1993-94	1993-94	1993-94	n.a.
WASN	1967-94	1967-94	1967-94	1970-94	1967-94	n.a.

TUR / IS	industry				
variables	S3420	S3825	S3832	S3845	S3850
EMPN	1970-94	1970-94	1970-94	1988-94	1970-94
ESTB	1970-94	1970-94	1970-94	1988-94	1970-94
ESUP	1991-93	1991-93	1991-93	n.a.	1991-93
GFCF	1967-94	1967-94	1967-94	1988-94	1967-94
GFEQ	1967-94	1967-94	1967-94	1988-94	1967-94
MHOU	1983-94	1983-94	1983-94	1988-94	1983-94
PROD	1967-94	1967-94	1967-94	1988-94	1967-94
REME	1990-94	1990-94	1990-94	1990-94	1990-94
REMO	1990-94	1990-94	1990-94	1990-94	1990-94
VALU	1967-94	1967-94	1967-94	1988-94	1967-94
WASE	1967-94	1967-94	1967-94	1988-94	1967-94
WASO	1990-94	1990-94	1990-94	1990-94	1990-94

USA/ IS	industry				
variables	S3420	S3825	S3832	S3845	S3850
EMPE	1967-94	1967-94	1967-94	1972-94	1967-94
EMPF	1992-94	1992-94	1992-94	1992-94	1992-94
ESTB	1982-92	1982-92	1982-92	1982-92	1982-92
ESUP	1967-94	1967-94	1967-94	1980-94	1967-94
EXPO	1975-95	1975-95	1975-95	1975-95	1975-95
GFCF	1967-94	1967-94	1967-94	1972-94	1967-94
GFEQ	1967-94	1967-94	1967-94	1972-94	1967-94
IMPO	1975-95	1975-95	1975-95	1975-95	1975-95
MHOU	1985-94	1985-94	1985-94	1985-94	1985-94
PROD	1967-94	1967-94	1967-94	1972-94	1967-94
REME	1976-94	1976-94	1976-94	1980-94	1976-94
VALU	1967-94	1967-94	1967-94	1972-94	1967-94
WASE	1967-94	1967-94	1967-94	1972-94	1967-94
WASO	1972-94	1972-94	1972-94	1972-94	1972-94