

Information Society Statistics

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4 million persons employed in the ICT sector in the EU

Statistics
in focus

INDUSTRY, TRADE
AND SERVICES

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Main results

- In 1998 the Information and Communication Technology (ICT) sector in EU-15 accounted for about 390 000 enterprises (of which 47 000 in the manufacturing sector and over 340 000 in the service sector), a growth of 14% compared to the year before. The ICT sector thus represents 2% of all enterprises in the European Union.
- About 4.3 million persons were employed in the ICT sector in EU-15 in 1998, of which 1.6 million in the manufacturing sector and 2.7 million in services (including about 1 million in telecommunication services). On average 11 persons were employed in 1998 per enterprise. Employment in the ICT sector increased in 1998 by about 3%. The ICT sector represents 2.8% of total employment in EU-15.
- Value added in the ICT sector in EU-15 amounted to about 315 billion Euro in 1998, or 4.1% of GDP. Value added per person employed stood at 73 000 Euro, which was 48% higher than in the rest of the economy.
- The total imports of ICT goods of EU countries amounted to 216 billion Euro in 1998, or 11.5% of all imports. Exports of ICT goods represented 190 billion Euro in 1998, or 9.8% of all exports. The trade deficit shrank from 25 billion Euro in 1998 to 15 billion Euro in 2000.

Table 1: Comparison of the ICT sector to the total economy, 1998

	Total ICT sector ¹			Total economy	Share of ICT on total economy (%)
	EU-15	USA	Japan	EU-15	EU-15
Number of enterprises (1 000)	389	173 ²	44 ²	19 370	2.0
Number of persons employed (1 000)	4 300	4 521 ²	2 060 ²	152 500	2.8
Value added at factor cost (Bio Euro)	315.0	512.8 ²	182.9 ²	7 616.9 ³	4.1
ICT imports (Bio Euro)	215.6	155.0 ⁴	37.4 ⁴	1 881.8	11.5
ICT exports (Bio Euro)	190.3	124.1 ⁴	88.1 ⁴	1 946.3	9.8

(1) NACE Rev. 1 activities covered: 30, 31.3, 32, 33.2, 33.3, 51.64, 64.2 and 72.

(2) OECD, data for 1997. USA, Japan: Number of establishments instead of enterprises.

(3) Gross domestic product.

(4) Source: OECD.

Source: Eurostat (for EU-15 data), OECD.

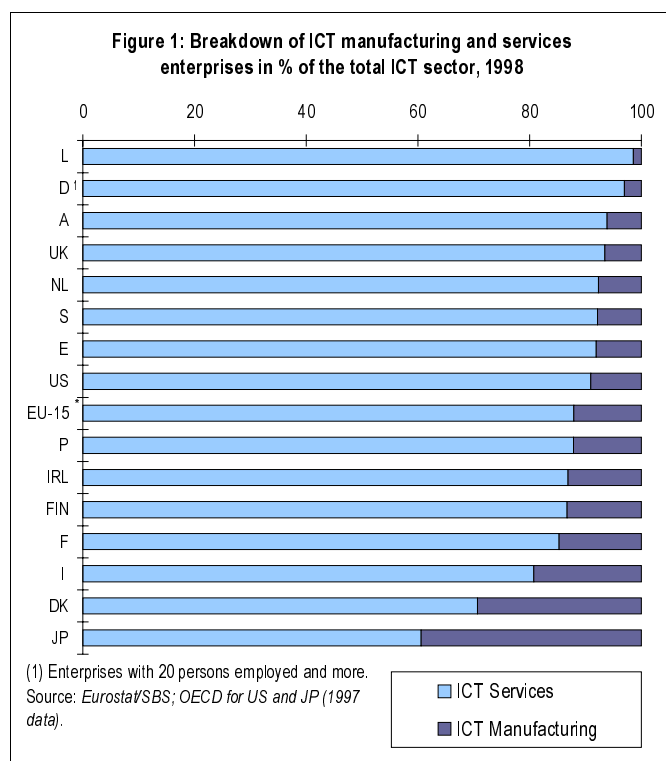
Number of enterprises in the ICT sector

Table 2: Number of ICT enterprises, 1995-1998

	Total ICT sector				ICT manufacturing ¹				ICT services ²				of which telecommunication services			
	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998
EU-15 *	: 319 000	343 000	389 000		: 47 000	47 000	47 000		: 272 000	296 000	342 000		: 7 100	8 500	10 500	
B	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
DK	2 863 ³	:	:	2 463 ³	747	752	725	724	2 116 ³	:	:	1 739	143	138	165	179
D	:	40 324	43 555	47 998	1 411 ⁴	1 390 ⁴	1 423 ⁴	1 447 ⁴	:	38 934	42 132	46 551	:	194	279	279
EL	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
E	:	:	:	20 250	1 330	1 549	1 634	1 634	:	14 448 ⁵	16 470 ⁵	18 616	:	999	1 059	1 198
F	:	42 925	44 812	47 390	:	7 265	7 129	6 997	:	35 660	37 683	40 393	:	827	1 123	1 606
IRL	1 115 ⁶	1 454	1 654	:	202	210	217	222	913 ⁶	1 244	1 437	:	:	28	53	:
I	63 540	65 703	69 830	:	12 867	13 106	13 452	:	50 673	52 597	56 378	:	205	238	313	:
L	591	645	729	838	10	10	10	12	581	635	719	826	37	42	42	44
NL	14 110	11 950	13 875	15 580	895	845	1 120	1 195	13 215	11 105	12 755	14 385	254	380	475	635
A	4 641	6 344	6 275	7 771	406	457	410	477	4 235	5 887	5 865	7 294	83	99	133	159
P	:	3 925	3 682	3 746	549	558	509	456	:	3 367	3 173	3 290	:	113	115	147
FIN	4 334	4 677	4 831	5 489	693	688	666	729	3 641	3 989	4 165	4 760	140	163	175	210
S	1 348	16 732	20 214	22 403	1 348	1 399	1 716	1 756	:	15 333	18 498	20 647	:	238	279	278
UK	:	75 063 ⁶	100 241	120 506	:	7 610	8 150	7 924	56 067 ⁶	67 453 ⁶	92 091	112 582	:	:	4 106	4 954
US ⁷	:	:	172 809	:	:	:	15 676	:	:	:	157 133	:	:	:	38 856	:
JP ⁷	:	:	44 422	:	:	:	17 522	:	:	:	26 900	:	:	:	6 024	:

(1) NACE Rev. 1 30, 31.3, 32, 33.2 and 33.3; (2) NACE Rev. 1 51.64, 64.2 and 72; (3) Excluding NACE Rev. 1 72; (4) Enterprises with 20 persons employed and more; (5) Excluding NACE Rev. 1 51.64; (6) Excluding NACE Rev. 1 64.2; (7) Number of establishments instead of enterprises. * = Eurostat estimate.

Source: Eurostat/SBS (Structural Business Statistics) and OECD for US and JP.



In 1998, 88% of EU enterprises engaged in the ICT sector were operating in services and 12% operated in manufacturing. Whilst the number of ICT manufacturing enterprises is stagnating, the number of ICT service enterprises has increased strongly in the recent past.

The United Kingdom is the EU country with the largest number of ICT firms followed, at a distance, by Italy, Germany and France. The United Kingdom is also the country with the largest number of ICT service enterprises, representing about one third of the EU total.

Figure 1 indicates that the USA's proportion of services to manufacturing firms is similar to that of the EU-15. Japan is the country with the highest share of ICT manufacturing enterprises.

Employment in the ICT sector

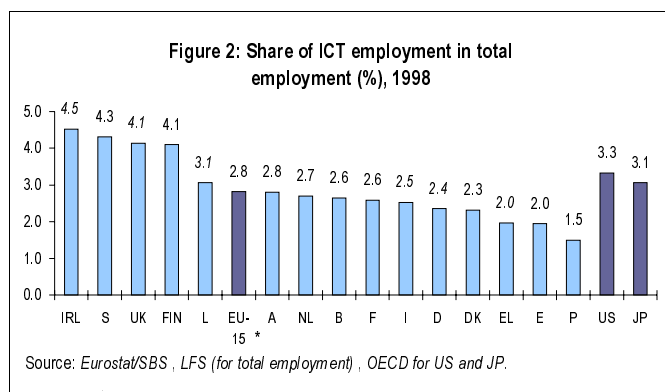
Table 3: Number of persons employed in the ICT sector, 1995-1998

(1 000)

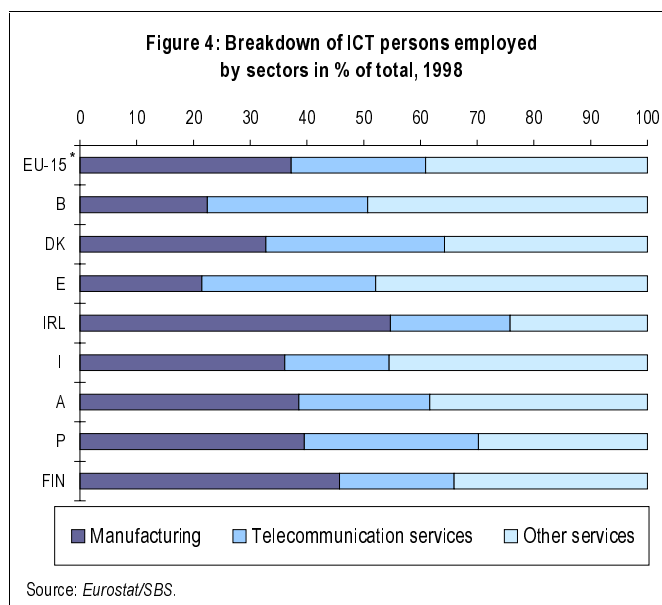
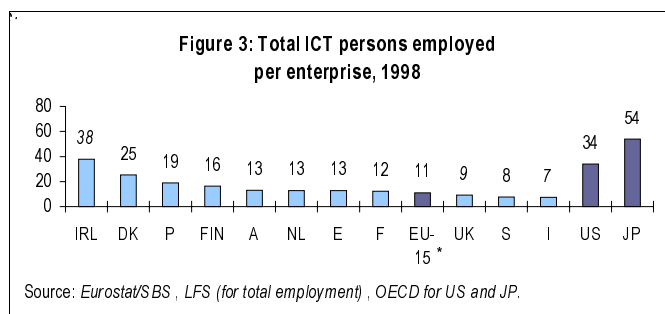
	Total ICT sector				ICT manufacturing ¹				ICT services ²				of which telecommunication services			
	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998
EU-15 *	:	:	4 170.0	4 300.0	:	1 575.0	1 590.0	1 600.0	:	:	2 580.0	2 700.0	:	:	:	1 020.0
B	93.4	95.8	95.9	101.9	26.0	24.7	23.0	22.9	67.4	71.1	72.9	79.0	28.8	31.1	29.7	28.8
DK	56.0	:	:	62.1	21.6	20.9	22.7	20.3	34.4	:	:	41.7	15.3	17.7	15.3	19.6
D ³	444.0	408.3	400.8	392.0	361.1	329.0	322.4	317.3	82.8	79.3	78.3	74.7	:	:	:	:
EL	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
E	:	:	:	257.0	55.2	56.6	55.7	55.3	:	:	:	201.7	:	:	:	78.7
F	:	697.3	546.6	580.7	:	277.4	278.1	283.2	:	419.9	268.6	297.5	:	163.5	c	c
IRL	:	52.5	62.7	:	26.0	27.8	34.3	35.6	:	24.7	28.4	:	:	12.4	13.2	:
I	514.7	522.9	514.6	:	194.6	193.4	185.8	:	320.1	329.5	328.9	:	95.3	96.3	94.7	:
L	:	:	:	:	:	:	:	:	3.4	3.5	4.4	5.1	0.4	:	0.5	0.6
NL	:	172.0	182.1	200.1	:	66.4	64.8	61.1	88.7	105.6	117.3	139.1	:	:	:	:
A	126.1	:	136.7	101.7	42.5	32.5	39.4	39.3	83.6	:	97.3	62.5	56.4	:	64.5	23.5
P	:	64.5	67.1	71.1	33.7	26.0	26.6	28.1	:	38.5	40.6	43.0	:	21.1	20.5	21.8
FIN	71.4	73.2	79.8	89.4	32.0	33.6	36.9	40.9	39.4	39.5	42.9	48.5	16.9	16.5	16.9	18.1
S	:	:	150.2	170.1	59.2	60.0	64.6	69.2	:	:	85.6	100.9	:	:	:	:
UK	:	:	1 111.6	:	:	312.7	321.3	:	:	:	:	:	:	:	:	:
US	:	:	4 521.1	:	:	:	1 587.3	:	:	:	2 933.8	:	:	:	1 007.0	:
JP	:	:	2 060.0	:	:	:	1 210.5	:	:	:	849.5	:	:	:	:	:

(1) NACE Rev. 1 30, 31.3, 32, 33.2 and 33.3; (2) NACE Rev. 1 51.64, 64.2 and 72; (3) For ICT manufacturing: enterprises with 20 persons employed and more; For ICT services: only NACE Rev. 1 51.64. *= Eurostat estimate.

Source: Eurostat/SBS and OECD for US and JP.



Four countries (Ireland, Sweden, the United Kingdom and Finland) have a share of ICT employment in total employment above both the EU-15 average and the USA. Portugal has the lowest share of ICT employment in the EU.



In 1998, the share of employment in the ICT sector in the EU was 2.8% below both the USA and Japan. The service sector represents 63% of the total ICT workforce in the Union. Amongst these, 38% (24% of the total of ICT employees) are working in telecommunication services.

The UK was the largest employer of staff in ICT with well over one million staff in 1997.

Value added at factor cost in the ICT sector

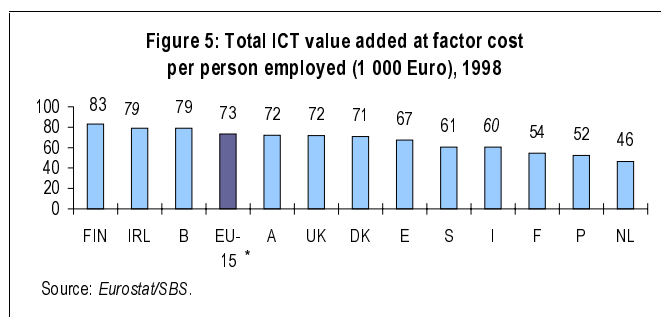
Table 4: Value added at factor cost in the ICT sector, 1995-1998

(Mio Euro)

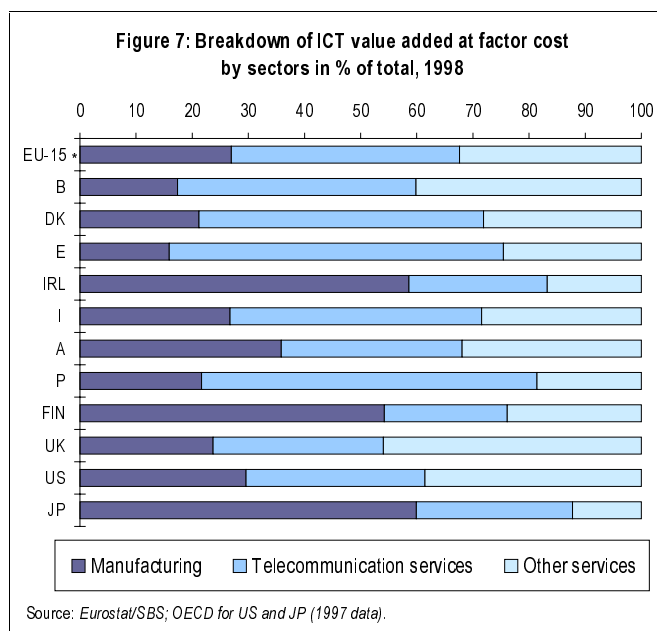
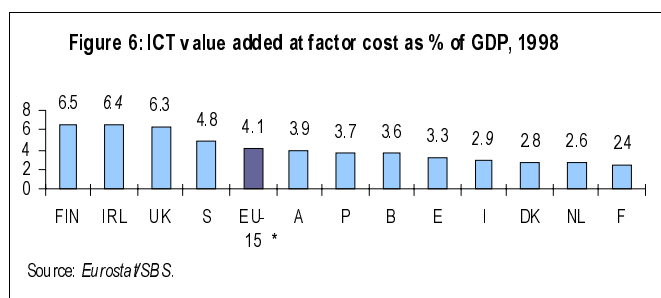
	Total ICT sector				ICT manufacturing ¹				ICT services ²				of which telecommunication services			
	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998
EU-15 *	:	:	274 000	315 000	:	:	84 000	85 000	:	:	190 000	230 000	:	:	:	128 000
B	7 216	7 483	7 448	8 046	1 637	1 547	1 654	1 401	5 579	5 936	5 794	6 645	3 045	3 462	3 180	3 414
DK	3 727 ³	:	:	4 400 ³	839	932	941	934	2 888 ³	:	:	3 466	1 526	1 707	2 123	2 230
D	:	:	:	:	17 603 ⁴	16 350 ⁴	17 642 ⁴	18 441 ⁴	:	:	:	:	:	:	:	:
EL	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
E	:	:	:	17 282	2 605	2 937	2 747	2 749	:	:	:	14 533	:	:	:	10 291
F	:	44 729	28 732 ⁵	31 619 ⁵	:	14 939	15 061	15 522	:	29 790	13 671 ⁵	16 097	:	16 696	c	c
IRL	:	3 763	4 959	:	2 436	2 161	2 906	2 644	:	1 602	2 053	:	:	1 091	1 222	:
I	26 098	30 001	31 090	:	8 055	8 627	8 319	:	18 043	21 374	22 771	:	10 854	12 769	13 919	:
L	:	:	:	:	:	:	:	:	380	179 ⁵	523	599	218	c	346	400
NL	:	:	10 351 ⁵	9 294 ⁵	3 810	3 615	3 741	1 381	2 292 ⁶	2 594 ⁶	6 610	7 913	:	c	c	c
A	8 445	:	7 641	7 320	2 439	:	2 197	2 626	6 006	:	5 444	4 694	4 256	:	3 502	2 356
P	:	2 888	3 160	3 723	:	589	676	807	:	2 299	2 484	2 916	:	1 856	1 928	2 224
FIN	4 278	4 599	5 801	7 437	1 934	2 098	2 961	4 031	2 344	2 501	2 840	3 406	1 124	1 216	1 408	1 629
S	8 375	10 394	11 550 ⁵	10 294 ⁵	2 864	3 558	6 983	4 675	5 511	6 836	4 567 ⁵	5 619	2 220	2 907	c	c
UK	:	:	65 784	79 916	:	13 873	17 726	18 965	:	:	48 058	60 951	:	:	21 540	24 229
US	:	:	512 805	:	:	:	151 816	:	:	:	360 989	:	:	:	163 491	:
JP	:	:	182 853	:	:	:	109 573	:	:	:	73 280	:	:	:	50 847	:

(1) NACE Rev. 1 30, 31.3, 32, 33.2 and 33.3; (2) NACE Rev. 1 51.64, 64.2 and 72; (3) Excluding NACE Rev. 1 72; (4) Enterprises with 20 persons employed and more; (5) Excluding NACE Rev. 1 64.2; (6) Only NACE Rev. 1 51.64. * = Eurostat estimate.

Source: Eurostat/SBS and OECD for US and JP.



Finland ranks first in terms of value added per person employed in the ICT sector (83 000 Euro in 1998) followed by Ireland, Belgium, Austria and the United Kingdom (no data available for Germany, Greece and Luxembourg).



Services act as the main activity producing value added, out of which telecommunication ones played a significant part, weighing around 40% of the total EU-15 value added in 1998. In Ireland and Finland, however, the manufacturing sector produces more than 50% of the ICT value added.

Turnover in the ICT sector

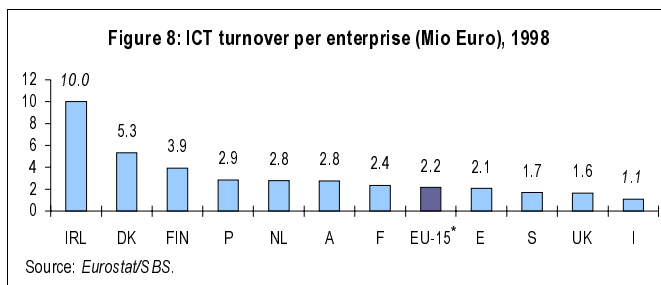
Table 5: Turnover in the ICT sector, 1995-1998

(Mio Euro)

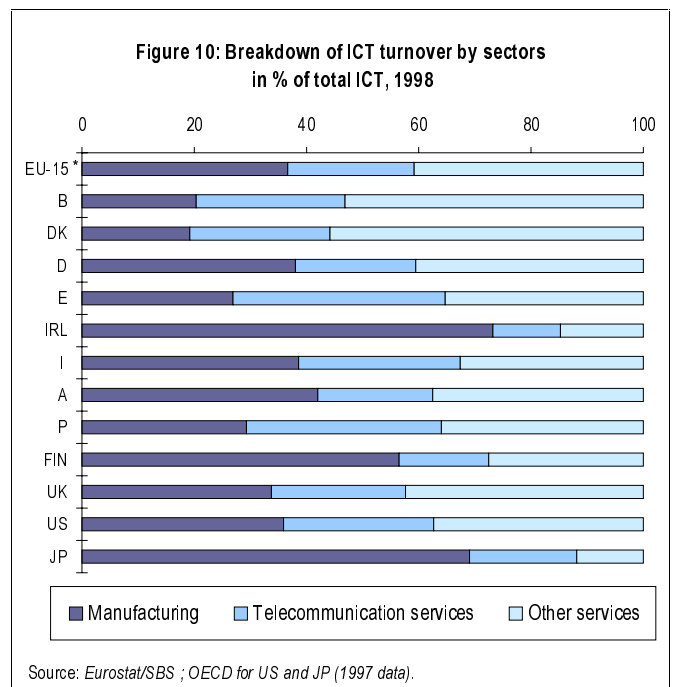
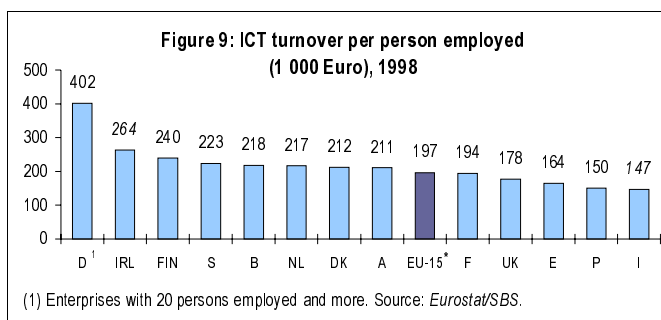
	Total ICT sector				ICT manufacturing ¹				ICT services ²				of which telecommunication services			
	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998
EU-15 *	745 000	760 000	845 000		290 000		310 000		455 000		535 000		175 000		190 000	
B	16 986	17 804	19 723	22 175	4 459	4 099	4 108	4 519	12 527	13 705	15 615	17 656	4 141	4 701	4 954	5 870
DK	10 505 ³			13 173 ³	2 305	2 477	2 580	2 529	8 200 ³			10 644	2 757	3 664	4 355	3 295
D		138 954	144 144	157 438	58 326 ⁴	55 902 ⁴	57 503 ⁴	59 853 ⁴		83 052	86 641	97 585		33 147	33 871	33 789
EL																
E				42 205	9 175	10 367	10 656	11 355				30 850				15 949
F		119 430	100 056 ⁵	112 732 ⁵		53 079	55 284	60 013		66 351	44 772 ⁵	52 719		25 238	c	c
IRL	10 051 ⁵	12 753	16 561		8 897	9 469	12 127	13 763	1 154 ⁵	3 284	4 434			1 632	1 989	
I	61 639	72 449	75 698		27 280	28 600	29 222		34 359	43 849	46 476		14 961	19 730	21 771	
L									919	584 ⁵	1 183	1 323	348	c	587	664
NL	35 382 ⁵	37 038 ⁵	49 548 ⁵	43 415 ⁵	13 362	13 931	16 122	5 212	22 020 ⁵	23 107 ⁵	33 426 ⁵	38 203 ⁵	c	c	c	c
A	18 531		20 884	21 455	7 362	6 100	7 837	9 017	11 169		13 047	12 438	4 844		5 686	4 391
P		7 293	8 521	10 699	2 504	2 439	2 685	3 138		4 854	5 836	7 561		2 684	2 966	3 715
FIN	12 328	13 475	16 669	21 457	6 353	6 944	8 998	12 127	5 975	6 531	7 671	9 330	1 921	2 180	2 597	3 416
S	28 693	33 424	31 714 ⁵	37 940 ⁵	10 972	14 008	16 661	19 045	17 721	19 416	15 053 ⁵	18 895	5 607	5 620	c	c
UK		125 230	169 811	197 736		48 256	64 338	66 740	64 986	76 974	105 473	130 996	25 023	28 393	39 142	47 214
US ⁶			1 035 267				371 830				663 437				276 828	
JP ⁶			508 671				351 290				157 381				97 061	

(1) NACE Rev. 1 30, 31.3, 32, 33.2 and 33.3; (2) NACE Rev. 1 51.64, 64.2 and 72; (3) Excluding NACE Rev. 1 72; (4) Enterprises with 20 persons employed and more; (5) Excluding NACE Rev. 1 64.2; (6) Production value is used instead of turnover. *= Eurostat estimate.

Source: Eurostat/SBS and OECD for US and JP.



Six countries, Ireland, Denmark, Finland, Portugal, the Netherlands and Austria had a turnover per enterprise substantially above the EU average in 1998. Ireland, Finland and Sweden led in terms of turnover per person employed if Germany is not considered (results for Germany relate to enterprises with 20 persons employed and more and are thus overstated compared with the other countries).



In 1998, the European Union's turnover for the ICT sector was composed around 37% by manufacturing, 22% by telecommunication services and just over 40% by other ICT services.

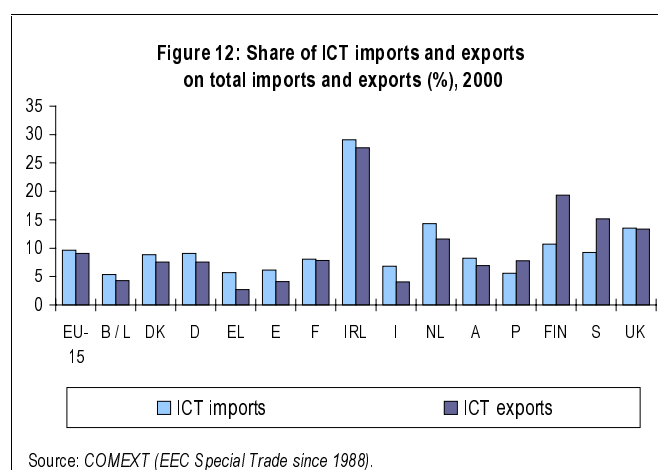
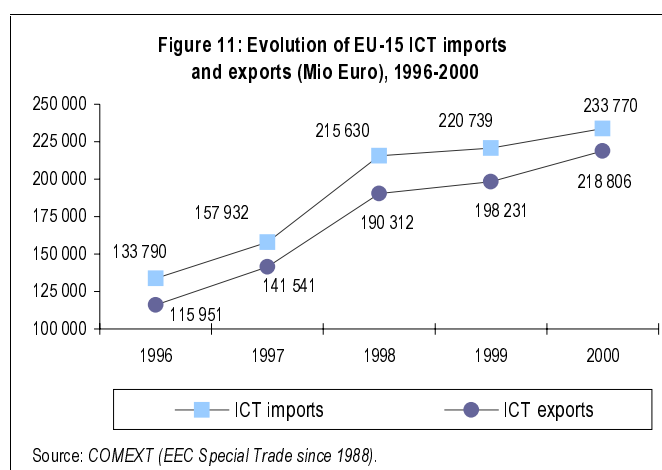
ICT imports and exports

Table 6: ICT imports and exports¹, 1996-2000

	ICT imports (Mio Euro)					Average growth per year (%)	ICT exports (Mio Euro)					Average growth per year (%)
	1996	1997	1998	1999	2000	1996-2000	1996	1997	1998	1999	2000	1996-2000
EU-15	133 790	157 932	215 630	220 739	233 770	11.8	115 951	141 541	190 312	198 231	218 806	17.2
B / L	5 806	6 688	8 934	9 823	10 470	12.5	4 907	5 545	7 143	7 466	8 865	15.9
DK	2 739	3 052	3 937	4 332	4 320	9.5	1 828	2 250	2 863	3 171	3 774	19.9
D	29 879	33 335	45 217	45 899	47 905	9.9	25 907	29 853	37 676	37 990	44 085	14.2
EL	882	1 039	1 544	1 720	1 720	14.3	163	206	198	226	313	17.6
E	5 814	6 028	8 738	8 821	9 629	10.6	3 423	3 501	4 301	4 139	4 747	8.5
F	18 488	21 352	28 399	26 699	28 983	9.4	17 038	19 950	26 451	24 566	27 291	12.5
IRL	5 362	7 307	10 578	11 374	15 019	22.9	7 518	11 302	16 529	18 987	22 167	31.0
I	11 555	12 977	16 151	16 487	16 720	7.7	7 968	7 888	9 631	8 904	10 277	6.6
NL	14 383	19 875	31 129	34 163	31 182	16.7	13 151	18 236	26 501	30 860	26 996	19.7
A	3 085	3 644	5 067	5 626	6 254	15.2	1 906	2 306	3 003	3 021	4 577	24.5
P	1 597	1 768	2 530	2 599	2 314	7.7	1 142	1 303	1 631	1 703	1 948	14.3
FIN	2 608	3 185	4 132	3 491	3 884	8.3	3 607	4 831	6 571	6 943	9 555	27.6
S	4 675	5 442	7 319	6 723	6 848	7.9	5 507	7 053	8 666	10 665	13 556	25.3
UK	26 918	32 239	41 955	42 980	48 523	12.5	21 884	27 315	39 149	39 591	40 655	16.7

(1) Total of partner countries: the whole world on 8-digit level of the Combined Nomenclature. Imports from non-Member countries and exports to non-Member countries.

Source: COMEXT (EEC Special Trade since 1988).



On average, the EU's ICT exports grew more than imports between 1996 and 2000 with Ireland leading the way with an average export growth of 31% over the period. However, in absolute terms Germany and the UK were the greatest exporters of ICT products. Only the Netherlands saw a reduction in its ICT exports between 1999 and 2000.

A very interesting element is that in 2000 only Finland, Sweden and Ireland succeeded in selling more ICT goods, than they bought from abroad. The Netherlands and Portugal actually witnessed a fall in ICT imports between 1999 and 2000.

As shown in figure 12, the Irish focus on ICT is confirmed by the significant importance this sector has in terms of total imports and exports (ICT represents nearly 30% of external trade in Ireland). While at EU level the share of ICT still represents less than 10% of total imports and exports.

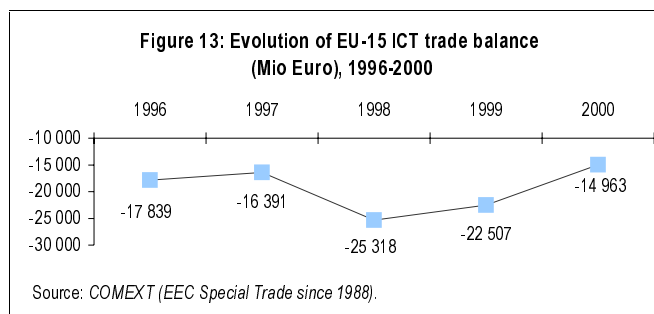
ICT trade balance

Table 7: ICT trade balance¹, 1996-2000

	ICT trade balance (Mio Euro)					Average growth per year (%)
	1996	1997	1998	1999	2000	1996-2000
EU-15	-17 839	-16 391	-25 318	-22 507	-14 963	(-4.3)
B / L	-899	-1 144	-1 791	-2 357	-1 604	(15.6)
DK	-910	-802	-1 074	-1 162	-546	(-12.0)
D	-3 972	-3 483	-7 541	-7 909	-3 820	(-1.0)
EL	-719	-833	-1 346	-1 494	-1 407	(18.3)
E	-2 391	-2 527	-4 437	-4 682	-4 882	(19.5)
F	-1 449	-1 402	-1 948	-2 133	-1 692	(3.9)
IRL	2 156	3 996	5 951	7 612	7 148	34.9
I	-3 587	-5 088	-6 520	-7 584	-6 443	(15.8)
NL	-1 232	-1 639	-4 629	-3 303	-4 185	(35.8)
A	-1 179	-1 337	-2 064	-2 605	-1 677	(9.2)
P	-454	-465	-899	-896	-366	(-5.3)
FIN	999	1 645	2 438	3 452	5 671	54.4
S	832	1 612	1 347	3 941	6 708	68.5
UK	-5 034	-4 924	-2 806	-3 388	-7 868	(11.8)

(1) Total of partner countries: the whole world on 8-digit level of the Combined Nomenclature.

Source: COMEXT (EEC Special Trade since 1988).



Between 1996 and 2000, the EU trade deficit for ICT goods narrowed on average by 4.3% per year. While the trade deficit increased between 1996 and 1998 it fell sharply in 2000. While 12 EU Member States showed trade deficits in ICT goods (the UK, Italy and Spain with the highest absolute values), Finland, Sweden and Ireland showed a considerable export surplus as regards ICT goods, amounting to 9% of GDP in Ireland.

ESSENTIAL INFORMATION – METHODOLOGICAL NOTES

Definitions:

ICT (Information and Communications Technology): A generic term that covers both information technology (computer hardware and software) and telecommunications equipment and services.

The following four definitions refer to Commission Regulation (EC) No 2700/98 of 17 December 1998 concerning the definitions of characteristics for structural business statistics (only extract):

Number of enterprises (11 11 0): A count of the number of enterprises registered to the population concerned in the business register corrected for errors, in particular frame errors. Dormant units are excluded. This statistic should include all units during at least a part of the reference period.

Number of persons employed (16 11 0): The number of persons employed is defined as the total number of persons who work in the observation unit (inclusive of working proprietors, partner working regularly in the unit and unpaid family workers), as well as persons who work outside the unit who belong to it and are paid by it (e.g. sales representatives, delivery personnel, repair and maintenance teams).

Turnover (12 11 0): Turnover comprises the totals invoiced by the observation to market sales of goods or services supplied to third parties.

Value added at factor cost (12 15 0): Value added at factor cost is the gross income from operating activities after adjusting for operating subsidies and indirect taxes. It can be calculated from turnover, plus capitalised production, plus other operating income,

plus or minus the changes in stocks, minus the purchases of goods and services, minus other taxes on products which are linked to turnover but not deductible, minus the duties and taxes linked to production.

The following two definitions are taken from the Business Methods database CODED:

Imports: The following are regarded as imports in a given Member State: a) goods which enter the statistical territory of this Member State from a non-member country and are: — placed under the customs procedure for release into free circulation (goods intended to be consumed in the importing Member State or dispatched to another Member State), either immediately or after a period in a customs warehouse; or — placed under the customs procedure for inward processing (including inward processing in a customs warehouse) or processing under customs control (usually goods destined to be processed, transformed or repaired for subsequent re-export) either immediately or after a period in a customs warehouse. b) boats and aircraft whose ownership is being transferred from a person established in a non-member country to a person established in the Member State in question.

Exports: The following are regarded as exports in a given Member State: a) goods which leave the statistical territory of this Member State bound for a non-member country, having gone through; — the customs export procedure (final export, export following inward processing, etc.); or — the customs outward-processing procedure (usually goods destined to be processed, transformed or repaired for subsequent re-

import). b) boats and aircraft whose ownership is being transferred from a person resident in the Member State in question to a person resident in a non-member country.

Classifications NACE Rev.1:

30	Manufacture of office machinery and computers
31.3	Manufacture of insulated wire and cable
32	Manufacture of radio, television, and communication equipment and apparatus
33.2	Manufacture of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment
33.3	Manufacture of industrial process control equipment
51.64	Wholesale of office machinery
64.2	Telecommunications
72	Computers and related activities

Symbols:

Euro	ECU up to 1998, Euro from 1999 onwards
:	not available
c	confidential
*	Eurostat estimation
<i>italic</i>	estimated on data of previous year

Data for USA and Japan: for the sources and definitions of these data see OECD publication 'Measuring the ICT sector', Paris, 2000.

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➤ Databases

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