



Investing in the Future of Jobs and Skills

Scenarios, implications and options in anticipation
of future skills and knowledge needs

Data Annex Computer, Electronic and Optical Products

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This report is published as part of a series of forward-looking sector studies on New Skills and New Jobs in the frame of the project *Comprehensive Sectoral Analysis of Emerging Competences and Economic Activities in the European Union*.

NOTE TO THE READER

The data presented in this annex provides an overall consistent picture of the state of play and developments in the sector. It constitutes the backbone of the quantitative part of the mapping exercise in Part I of the report.

The key data collected in this study are derived from various, mostly comparable sources. The first source concerns the input-output (I/O) tables published by Eurostat. These tables conform to the ESA95 standard; they provide data on value added for sectors, exports and imports (from the respective supply and use tables) and are the only source providing value added data at the 2-digit NACE level. GDP data (country totals) were derived from the OECD. Employment data were also obtained from Eurostat, partly from the National Accounts. The main part of the employment data was provided by the Structural Business Statistics (SBS) from Eurostat, both at the NACE 2 digit and the NACE 3 digit level. This source required estimations for missing values; these were made under responsibility of TNO. Micro-data on developments in the sector by job occupation were derived Eurostat's Labour Force Survey (LFS), as provided by Alphametrics and further processed by TNO. Due to sample size restrictions, the representativeness of country LFS data should be interpreted with caution and as indicative only, and presented in italics. Data on country groupings EU, EU 6, EU 9, EU 15 and NMS pool country data together and can be judged to be representative. EU 6 refers to the founding fathers of the then European Community, EU 9 to the Member States that accessed in the years thereafter, and the EU 15 as the sum of the two. The NMS or new Member States include the last wave of accession and includes Romania and Bulgaria, unless otherwise stated. It should however be borne in mind that the Labour Force Survey is based on a sample (n) rather than on the full statistical population (N). Data on the USA, Japan and the BRICs (Brazil, Russia, India and China) was based on UNIDO data (ISIC Rev 3). UNIDO contains aggregated EU data, but only EU-15 data rather than EU-25 or EU-27. As the time span for the UNIDO data differs to the other data presented in this report, for reasons of comparability, the UNIDO EU-15 has been included in this last section to maintain a comparable set of data.

In case a blank space appears in the data tables data are not available, either because the (sub)sector did not exist in a particular country, because of lack of information applied or because the underlying information was statistically insignificant. In general, data is lacking for some of the new Member States. This especially applies to Malta and Cyprus. Some sources did also not provide data for Bulgaria, Romania and Latvia. The aggregation of the countries is roughly based on the length in number of years of EU membership. Besides the entire EU, we distinguish the following sets of country blocks:

- EU-6: Belgium, Germany, France, Italy, Luxembourg, the Netherlands
- EU-9: Austria, Denmark, Finland, Greece, Ireland, Portugal, Spain, Sweden, United Kingdom
- EU-7: Czech Republic, Estonia, Hungary, Lithuania, Poland, Slovenia, Slovakia
- New Member States (NMS): Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Romania, Slovenia, Slovakia.

Data on value added and trade is lacking for Malta, Cyprus, Bulgaria, Romania and Latvia. Data on employment is missing for Malta and Cyprus, and data on skills is lacking for Malta, Cyprus and Poland.

The data is presented in 11 sections. In coherence with the main report this data annex refers to the sectors Office equipment and computer industries (NACE 30), audio, video and telecom industries (NACE 32) and Medical equipment and precision instruments (NACE 33). The first section presents data on value added, the second on trade, and the third on knowledge intensity. The remaining sections present data on various variables of employment. Section 4 presents absolute numbers of employment and growth rates by country. Section 5 groups employment by firm size and section 6 by entrepreneurial activity. Section 7 up to 10 are based on Labour Force Survey data. Section 7 presents employment by occupation and relative changes over time therein. Section 8 relates occupations to gender, section 9 to the level of education and section 10 to age groups. The last section compares Europe to its main competitors (USA, Japan, and BRICs) in terms of employment and value added.

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1. Value Added

Table 1.1 GDP and GDP growth: overall economy and electronic and computing equipment industries (NACE 30+32+33)

	Electronic and computing equipment industries (NACE 30+32+33)				Economy			
	GDP 2006	1995- 2000	2000- 2006	1995- 2006	GDP 2006	1995- 2000	2000- 2006	1995- 2006
	m€		%*		m€		%*	
EU	154 235	9.2	3.6	6.1	11 468 970	2.8	2.0	2.3
EU 6	88 651	8.6	4.3	6.2	6 480 204	2.2	1.3	1.7
EU 9	58 589	9.8	2.1	5.5	4 403 041	3.7	2.8	3.2
EU 15	147 240	9.1	3.4	6.0	10 883 245	2.8	1.9	2.3
NMS	6 995	12.8	7.8	10.0	585 725	2.7	3.7	3.2
Belgium	1 717	11.6	-5.6	1.9	316 622	2.4	1.8	2.1
France	26 165	19.5	8.4	13.3	1 792 140	2.5	1.8	2.1
Germany	41 424	8.9	5.4	7.0	2 322 200	2.1	1.0	1.5
Italy	15 730	1.6	0.1	0.8	1 480 007	1.6	0.7	1.1
Luxemburg	153	18.0	12.6	15.0	33 852	5.9	3.9	4.8
Netherlands	3 463	5.2	-4.1	0.0	535 382	3.9	1.7	2.7
Austria	3 922	5.4	2.1	3.6	257 897	3.0	1.8	2.3
Denmark	3 422	6.1	11.0	8.8	220 069	2.8	1.9	2.3
Finland	11 071	33.1	14.6	22.7	167 178	4.3	2.8	3.5
Greece	520	9.4	4.5	6.7	214 203	3.5	3.7	3.6
Ireland	7 038	7.4	-5.1	0.4	177 281	9.2	6.0	7.4
Portugal	712	10.9	1.7	5.8	155 324	3.5	1.1	2.1
Spain	5 081	4.9	1.3	2.9	981 777	4.3	3.2	3.7
Sweden	9 237	36.0	19.0	26.4	316 435	2.4	3.1	2.8
United Kingdom	17 585	8.2	-4.3	1.2	1 912 877	3.4	2.5	2.9
Bulgaria								
Cyprus								
Czech Republic	1 728	19.9	14.0	16.7	114 060	-0.3	3.9	2.0
Estonia	105	9.7	9.2	9.4	13 223	6.3	8.3	7.4
Hungary	2 440	27.5	10.2	17.8	89 908	3.3	3.6	3.5
Latvia								
Lithuania	196	-1.2	7.0	3.2	23 748	4.4	7.5	6.1
Malta								
Poland	1 650	5.7	0.8	3.0	269 756	3.5	3.0	3.2
Romania								
Slovenia	493	7.5	8.9	8.2	30 455	3.3	4.1	3.7
Slovakia	384	11.2	7.0	8.9	44 574	2.9	4.1	3.6

* Percentage is calculated as the cumulative annual average growth rate (CAGR)

Source: Eurostat/TNO

Table 1.2 GDP and GDP growth: office equipment and computer industries (NACE 30)

	Office equipment and computer industries (NACE 30)			
	GDP sector 2006	1995-2000	2000-2006	1995-2006
	m€		%*	
EU	13 976	3.7	-5.0	-1.1
EU 6	8 107	5.1	- 0.5	2.0
EU 9	5 444	2.5	-9.3	-4.1
EU 15	13 551	3.6	-4.7	-1.0
NMS	425	6.1	-10.8	-3.5
Belgium	67	-0.7	-5.1	-3.1
France	2 975	16.6	2.0	8.4
Germany	3 795	2.8	0.1	1.3
Italy	965	-1.5	-6.6	-4.3
Luxemburg	0	n.a.	n.a.	n.a.
Netherlands	305	2.3	-4.2	-1.3
Austria	137	38.8	-0.3	15.8
Denmark	213	5.5	10.4	8.1
Finland	25	-49.2	46.1	-9.6
Greece	6	2.7	-9.9	-4.4
Ireland	2 126	5.1	-10.9	-4.0
Portugal	48	-6.3	3.5	-1.1
Spain	602	0.3	-8.1	-4.4
Sweden	352	25.1	16.6	20.4
United Kingdom	1 934	0.1	-11.6	-6.4
Bulgaria				
Cyprus				
Czech Republic	171	38.2	0.2	15.9
Estonia	5	0.6	8.4	4.8
Hungary	146	8.9	-11.8	-3.0
Latvia				
Lithuania	6	-1.2	9.3	4.4
Malta				
Poland	27	-1.7	-33.6	-20.6
Romania				
Slovenia	37	4.6	7.9	6.4
Slovakia	33	-3.7	13.1	5.1

* Percentage is calculated as the cumulative annual average growth rate (CAGR)

Source: Eurostat/TNO

Table 1.3 GDP and GDP growth: audio, video and telecom industries (NACE 32)

	Audio, video and telecom industries (NACE 32)			
	GDP sector 2006	1995-2000	2000-2006	1995-2006
	m€		%*	
EU	71 796	11.9	3.2	7.1
EU 6	36 515	10.0	2.8	6.0
EU 9	30 947	13.6	2.6	7.5
EU 15	67 461	11.6	2.7	6.7
NMS	4 335	22.6	14.8	18.2
Belgium	1 133	13.7	-8.1	1.2
France	12 480	26.2	7.9	15.9
Germany	14 123	11.5	4.5	7.6
Italy	7 710	0.9	0.4	0.6
Luxemburg	0	n.a.	n.a.	n.a.
Netherlands	1 069	4.5	-14.8	-6.5
Austria	2 590	5.2	0.0	2.3
Denmark	1 349	2.3	14.9	9.0
Finland	10 018	38.7	14.9	25.2
Greece	423	10.6	6.2	8.1
Ireland	1 560	7.3	-10.4	-2.7
Portugal	444	18.4	-1.0	7.4
Spain	2 253	6.1	1.2	3.4
Sweden	6 510	43.7	19.0	29.7
United Kingdom	5 800	11.7	-9.8	-0.6
Bulgaria				
Cyprus				
Czech Republic	917	25.5	18.8	21.8
Estonia	68	14.0	11.3	12.5
Hungary	1 908	49.0	16.3	30.2
Latvia				
Lithuania	133	-1.0	5.2	2.3
Malta				
Poland	877	15.5	13.5	14.4
Romania				
Slovenia	224	7.9	8.6	8.3
Slovakia	209	14.0	9.7	11.6

* Percentage is calculated as the cumulative annual average growth rate (CAGR)

Source: Eurostat/TNO

Table 1.4 GDP and GDP growth: medical equipment and precision instruments (NACE 33)

	Medical equipment and precision instruments (NACE 33)			
	GDP sector 2006	1995-2000	2000-2006	1995-2006
	m€		%*	
EU	68 463	8.7	6.6	7.6
EU 6	44 029	8.2	6.9	7.5
EU 9	22 198	9.6	6.3	7.8
EU 15	66 228	8.7	6.7	7.6
NMS	2 235	8.8	4.4	6.4
Belgium	516	7.6	2.3	4.7
France	10 710	13.8	11.5	12.6
Germany	23 506	9.0	7.2	8.0
Italy	7 055	3.2	1.1	2.0
Luxemburg	153	18.0	12.6	15.0
Netherlands	2 090	8.0	8.7	8.4
Austria	1 194	3.2	8.5	6.0
Denmark	1 860	8.6	8.8	8.7
Finland	1 028	16.6	12.0	14.1
Greece	91	6.9	-0.4	2.8
Ireland	3 353	12.7	5.9	8.9
Portugal	220	1.0	8.5	5.1
Spain	2 226	6.7	5.5	6.1
Sweden	2 375	24.0	19.2	21.4
United Kingdom	9 851	9.1	3.5	6.0
Bulgaria				
Cyprus				
Czech Republic	640	10.3	13.9	12.3
Estonia	32	5.6	5.6	5.6
Hungary	386	23.9	5.5	13.5
Latvia				
Lithuania	57	-1.8	12.0	5.5
Malta				
Poland	746	5.6	-2.1	1.3
Romania				
Slovenia	232	7.6	9.3	8.6
Slovakia	142	11.7	2.8	6.7

* Percentage is calculated as the cumulative annual average growth rate (CAGR)

Source: Eurostat/TNO

Table 1.5 Share of electronic and computing equipment industries (NACE 30+32+33) in GDP, share in sectoral GDP EU and concentration index*

	Share in GDP		Share in EU		Concentration index	
	2006	1995-2006 (change)	2006	1995-2006 (change)	2006	1995-2006 (change)
	%	%	%	%	%	%
EU	2.1	0.5	100	0	100	0
EU 6	2.2	0.6	60	-1	106	3
EU 9	1.8	0.3	34	-1	89	-10
EU 15	2.1	0.5	94	-2	99	-2
NMS	2.4	1.3	6	2	117	43
Belgium	1.2	0.1	2	0	58	-15
France	1.7	0.9	13	5	83	32
Germany	3.3	1.1	32	2	158	20
Italy	1.8	-0.1	12	-6	89	-36
Luxemburg	0.0	0.0	0	0	0	0
Netherlands	0.8	-0.2	2	-1	39	-28
Austria	2.3	0.2	3	-1	112	-24
Denmark	2.4	1.1	2	1	115	35
Finland	6.3	4.8	4	3	304	207
Greece	0.4	0.0	0	0	19	-7
Ireland	5.0	-4.1	4	-2	240	-339
Portugal	0.9	0.1	1	0	42	-7
Spain	1.2	0.0	5	-1	56	-17
Sweden	3.3	2.8	4	3	158	128
United Kingdom	1.4	-0.2	11	-5	68	-34
Bulgaria	0.0	0.0	0	0	0	0
Cyprus	0.0	0.0	0	0	0	0
Czech Republic	3.0	1.9	1	1	146	75
Estonia	1.6	0.6	0	0	78	13
Hungary	5.1	3.9	2	1	245	168
Latvia	0.0	0.0	0	0	0	0
Lithuania	1.5	0.2	0	0	70	-12
Malta	0.0	0.0	0	0	0	0
Poland	1.3	0.3	1	0	63	-4
Romania	0.0	0.0	0	0	0	0
Slovenia	3.0	1.1	0	0	144	22
Slovakia	2.7	1.3	0	0	128	44

Source: Eurostat/TNO. *defined as share in country divided by share in EU, times 100

2. Trade

Table 2.1 Exports, export growth, share of exports in value added, and change over time: electronic and computing equipment industries (NACE 30+32+33)

	Exports 2006	Average annual growth rate*, 1995-2006	Exports as share of value added, 2006	Change of share in value added, 1995-2006
	m€	%	%	%
EU	478 833	10.5	310	125
EU 6	255 534	10.9	288	105
EU 9	180 796	8.7	309	138
EU 15	436 330	9.9	296	118
NMS	42 503	22.6	608	239
Belgium	15 735	10.4	917	548
France	38 541	13.6	147	26
Germany	122 226	13.1	295	72
Italy	20 663	0.7	131	59
Luxembourg	1 014	0.0		
Netherlands	57 355	11.9	1656	1435
Austria	11 628	8.4	297	93
Denmark	11 148	12.4	326	109
Finland	13 928	18.7	126	-57
Greece	783	14.1	151	402
Ireland	38 474	6.7	547	176
Portugal	4 005	13.4	562	376
Spain	13 268	8.4	261	272
Sweden	16 042	22.9	174	-54
United Kingdom	71 519	6.6	407	303
Bulgaria	0	0.0		0
Cyprus	0	0.0		0
Czech Republic	12 346	29.5	714	153
Estonia	1 769	13.7	1692	-85
Hungary	18 569	23.8	761	225
Latvia	0	0.0		0
Lithuania	767	9.4	392	243
Malta	0	0.0		0
Poland	5 933	20.2	360	196
Romania	0	0.0		0
Slovenia	956	10.8	194	68
Slovakia	2 163	22.4	563	371

Source: Eurostat/TNO. * calculated as the cumulative annual average growth rate (CAGR)

Table 2.2 Imports, import growth, exports/imports ratio, and change over time: electronic and computing equipment industries (NACE 30+32+33) (in %)

	Imports	Average growth rate*	Exports/imports ratio	Change exports/imports ratio
	2006	1995-2006	2006	1995-2006
	m€	%	%	%
EU	595 794	11.4	80	-6
EU 6	314 599	11.1	81	-1
EU 9	237 349	11.0	76	-18
EU 15	551 948	11.1	79	-8
NMS	43 846	16.2	97	40
Belgium	19 999	10.9	79	-3
France	52 421	15.1	74	-13
Germany	123 531	11.3	99	14
Italy	39 180	4.2	53	-20
Luxemburg	229	0.0	443	276
Netherlands	79 239	14.6	72	-13
Austria	12 966	8.2	90	2
Denmark	15 537	13.0	72	-4
Finland	10 163	16.2	137	16
Greece	7 212	11.9	11	1
Ireland	28 005	7.8	137	-12
Portugal	6 405	12.2	63	9
Spain	31 508	10.6	42	-8
Sweden	13 798	21.4	116	-4
United Kingdom	111 755	11.0	64	-33
Bulgaria	0	0.0		0
Cyprus	0	0.0		0
Czech Republic	12 171	16.3	101	65
Estonia	1 464	8.9	121	44
Hungary	16 906	25.8	110	-22
Latvia	0	0.0		0
Lithuania	1 187	11.2	65	-13
Malta	0	0.0		0
Poland	7 115	9.5	83	46
Romania	0	0.0		0
Slovenia	1 487	11.7	64	-6
Slovakia	3 517	15.7	62	31

Source: Eurostat/TNO. * calculated as the cumulative annual average growth rate (CAGR)

3. Knowledge intensity

Table 3.1 Knowledge intensity* in the electronic and computing equipment industries (NACE 30+32+33) and the total economy (in %)

	Computers and electronics industry (NACE 30+32+33)		Economy		Difference	
	% high educated	Change 2000-2006	% high educated	Change 2000-2006	% high educated	Difference in change
EU	33	4	26	3	7	1
EU 6	33	6	35	0	-2	6
EU 9	42	8	46	3	-3	5
EU 15	36	5	27	3	8	2
NMS	20	1	32	2	-11	-1
Belgium	51	15	37	4	14	11
Germany	33	1	26	0	7	1
France	45	13	30	4	15	9
Italy	14	4	15	3	-2	1
Luxembourg	25	25	27	6	-3	19
Netherlands	40	9	30	6	10	4
Denmark	43	9	33	8	10	1
Ireland	45	12	33	8	12	4
Greece	39	3	25	5	14	-2
Spain	51	-1	32	5	19	-6
Austria	21	3	18	3	3	0
Portugal	19	11	14	4	5	6
Finland	59	10	35	2	24	8
Sweden	33	-2	30	0	3	-1
United Kingdom	44	11	32	3	12	8
Bulgaria	33	0	25	3	7	-3
Czech Republic	17	6	15	2	2	3
Estonia	36	-7	35	3	1	-9
Cyprus						
Latvia	16	16	23	2	-7	14
Lithuania	20	-9	31	-15	-11	6
Hungary	14	6	21	4	-8	1
Malta						
Poland	24		22		2	
Romania	35	-16	13	5	22	-20
Slovenia	19	1	23	6	-5	-5
Slovakia	11	5	17	5	-6	1

Source: Alphametrix/Eurostat/TNO. *High educated as percentage of all employment in the sector

4. Employment, employment growth and concentration

Table 4.1 Employment* of economy, manufacturing, Electronic and computing equipment industries (NACE 30+32+33) (in persons)

	Total employment	Total manufacturing	30 + 32 + 33	30	32	33
	2006	2006	2006	2006	2006	2006
EU	219 623 000	34 412 299	2 058 232	150 429	814 118	1 093 685
EU 6	102 008 000	16 767 331	1 177 005	74 585	420 474	681 946
EU 9	75 247 000	9 425 653	508 360	42 691	213 603	252 067
EU 15	177 255 000	26 192 984	1 685 365	117 277	634 077	934 012
NMS	43 668 000	8 219 315	372 866	33 152	180 041	159 673
Belgium	4 343 000	608 502	25 515	642	16 845	8 028
Germany	39 024 000	7 108 858	530 081	38 382	147 492	344 206
France	25 356 000	3 657 504	323 446	13 611	150 938	158 898
Italy	24 695 000	4 576 771	241 532	15 671	85 751	140 110
Luxembourg	203 000	37 020	2 560			2 560
Netherlands	8 387 000	778 676	53 871	6 279	19 448	28 144
Denmark	2 782 000	415 088	24 603	1 164	6 687	16 751
Ireland	2 042 000	220 101	42 188	10 054	6 473	25 661
Greece	4 642 000	400 081	8 459	1 086	4 830	2 543
Spain	20 000 000	2 589 588	63 613	3 964	23 554	36 096
Austria	4 800 000	624 394	44 257	2 977	25 613	15 666
Portugal	5 167 000	830 116	17 476	845	11 342	5 289
Finland	2 444 000	406 638	55 619	265	42 674	12 680
Sweden	4 423 000	798 471	55 867	3 885	29 539	22 443
United Kingdom	28 947 000	3 141 176	196 278	18 451	62 890	114 937
			0			
Bulgaria	3 612 000	663 847	14 820	2 664	5 642	6 515
Czech Republic	4 986 000	1 354 162	105 188	15 331	47 999	41 858
Estonia	648 000	132 236	8 236	388	6 278	1 570
Cyprus	373 000	36 490	0			
Latvia	1 088 000	163 840	3 157	183	1 006	1 968
Lithuania	1 504 000	267 850	12 477	450	8 309	3 718
Hungary	3 905 000	778 075	79 189	3 998	54 361	20 829
Malta	154 000	31 705	0			
Poland	14 594 000	2 590 854	89 971	2 158	34 109	53 703
Romania	9 568 000	1 552 158	29 228	4 540	8 406	16 282
Slovenia	935 000	235 917	13 916	1 012	5 315	7 589
Slovakia	2 301 000	412 181	16 683	2 428	8 614	5 641

Source: Eurostat/TNO. * employers and employees

Table 4.2 Employment* of economy, manufacturing, Electronic and computing equipment industries (NACE 30+32+33) (in persons)

	Total employment	Total manufacturing	30 + 32 + 33	30	32	33
	2000	2000	2000	2000	2000	2000
EU	219 623 000	34 412 299	2 279 276	236 497	1 015 167	1 027 611
EU 6	102 008 000	16 767 331	1 223 019	113 390	494 296	615 333
EU 9	75 247 000	9 425 653	716 972	93 076	356 863	267 033
EU 15	177 255 000	26 192 984	1 939 991	206 466	851 159	882 366
NMS	43 668 000	8 219 315	339 285	30 031	164 009	145 245
Belgium	4 343 000	608 502	28 827	963	19 057	8 807
Germany	39 024 000	7 108 858	526 076	47 400	170 571	308 105
France	25 356 000	3 657 504	344 896	40 102	160 161	144 633
Italy	24 695 000	4 576 771	244 133	16 445	101 989	125 699
Luxembourg	203 000	37 020	1 589			1 589
Netherlands	8 387 000	778 676	77 498	8 480	42 518	26 500
Denmark	2 782 000	415 088	31 926	1 815	14 425	15 686
Ireland	2 042 000	220 101	53 777	20 491	15 013	18 273
Greece	4 642 000	400 081	23 538	592	20 034	2 912
Spain	20 000 000	2 589 588	69 144	8 092	30 063	30 989
Austria	4 800 000	624 394	45 661	870	30 414	14 377
Portugal	5 167 000	830 116	23 323	367	16 578	6 378
Finland	2 444 000	406 638	51 023	893	38 618	11 512
Sweden	4 423 000	798 471	73 377	3 797	46 459	23 121
United Kingdom	28 947 000	3 141 176	345 203	56 159	145 259	143 785
Bulgaria	3 612 000	663 847	16 665	3 451	5 999	7 215
Czech Republic	4 986 000	1 354 162	66 404	3 722	30 755	31 927
Estonia	648 000	132 236	14 218	158	5 649	8 412
Cyprus	373 000	36 490				
Latvia	1 088 000	163 840	2 912	172	1 373	1 367
Lithuania	1 504 000	267 850	11 725	401	7 863	3 461
Hungary	3 905 000	778 075	64 881	11 225	39 677	13 979
Malta	154 000	31 705				
Poland	14 594 000	2 590 854	90849	5 169	35 080	50 601
Romania	9 568 000	1 552 158	29736	2 947	13 819	12 970
Slovenia	935 000	235 917	22733	1 268	12 648	8 817
Slovakia	2 301 000	412 181	19162	1 519	11 146	6 497

Source: Eurostat/TNO. * employers and employees

Table 4.3 Employment* of audio, video and telecom industries (NACE 32) and sub-sectors** (in persons)

	Employment 32 2006	Employment 321 2006	Employment 322 2006	Employment 323 2006
EU	814 118	337 876	299 835	176 407
EU 6	420 474	193 308	151 641	75 525
EU 9	213 603	63 788	109 317	40 498
EU 15	634 077	257 096	260 958	116 023
NMS	180 041	80 780	38 877	60 383
Belgium	16 845	4 462	5 934	6 450
Germany	147 492	80 756	43 393	23 343
France	150 938	73 067	55 839	22 032
Italy	85 751	33 069	46 193	6 490
Luxembourg	0	0	0	0
Netherlands	19 448	1 954	282	17 211
Denmark	6 687	1 547	1 154	3 986
Ireland	6 473	5 480	129	865
Greece	4 830	454	3 767	608
Spain	23 554	10 491	6 003	7 060
Austria	25 613	10 277	14 599	738
Portugal	11 342	1 867	3 042	6 434
Finland	42 674	4 480	37 026	1 167
Sweden	29 539	2 326	25 781	1 431
United Kingdom	62 890	26 866	17 815	18 208
Bulgaria	5 642	3 756	1 579	307
Czech Republic	47 999	24 269	15 429	8 302
Estonia	6 278	6 278	0	0
Cyprus	0	0	0	0
Latvia	1 006	303	426	276
Lithuania	8 309	5 585	242	2 483
Hungary	54 361	17 660	5 669	31 032
Malta	0	0	0	0
Poland	34 109	9 042	10 086	14 981
Romania	8 406	4 966	2 931	509
Slovenia	5 315	3 592	1 453	270
Slovakia	8 614	5 329	1 063	2 223

Source: Eurostat/TNO. *employees and self-employed. ** Manufacture of electronic valves and tubes and other electronic components (NACE 321), manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy (NACE 322), television and radio receivers, sound or video recording or reproducing apparatus and associated goods (NACE 323).

Table 4.4 Employment* of medical equipment and precision instruments (NACE 33) and subsectors** (in persons)

	Employment 33	Employment 331	Employment 332+333+334+335
	2006	2006	2006
EU	1 093 685	485 633	608 052
EU 6	681 946	311 157	370 788
EU 9	252 067	110 261	141 806
EU 15	934 012	421 418	512 594
NMS	159 673	64 215	95 458
Belgium	8 028	4 402	3 625
Germany	344 206	178 311	165 895
France	158 898	57 845	101 052
Italy	140 110	57 146	82 964
Luxembourg	2 560	367	2 193
Netherlands	28 144	13 086	15 058
Denmark	16 751	9 545	7 207
Ireland	25 661	20 151	5 510
Greece	2 543	797	1 746
Spain	36 096	20 174	15 922
Austria	15 666	7 465	8 201
Portugal	5 289	2 363	2 925
Finland	12 680	4 569	8 112
Sweden	22 443	9 784	12 658
United Kingdom	114 937	35 413	79 525
Bulgaria	6 515	2 512	4 002
Czech Republic	41 858	17 818	24 041
Estonia	1 570	891	679
Cyprus	0	0	0
Latvia	1 968	783	1 184
Lithuania	3 718	2 018	1 699
Hungary	20 829	10 377	10 452
Malta	0	0	0
Poland	53 703	23 172	30 532
Romania	16 282	3 195	13 087
Slovenia	7 589	1 070	6 520
Slovakia	5 641	2 379	3 262

Source: Eurostat/TNO. *employees and self-employed. ** Manufacture of medical and surgical equipment and orthopaedic appliances (NACE 331), instruments and appliances for measuring, checking, testing, navigating and other purposes (NACE 332), industrial process control equipment (NACE 333), optical instruments, photographic equipment (NACE 334), watches and clocks (NACE 335).

Table 4.5 Employment* growth** 2000-2006 Electronic and computer industries by subsector (NACE 30, 32, 33) (in %)

	30+32+33	30	32	33
	<i>CAGR 2000-2006</i> (%)	<i>CAGR 2000-2006</i> (%)	<i>CAGR 2000-2006</i> (%)	<i>CAGR 2000-2006</i> (%)
EU	-1.7	-7.3	-3.6	1.0
EU 6	-0.6	-6.7	-2.7	1.7
EU 9	-5.6	-12.2	-8.2	-1.0
EU 15	-2.3	-9.0	-4.8	1.0
NMS	1.6	1.7	1.6	1.6
Belgium	-2.0	-6.5	-2.0	-1.5
Germany	0.1	-3.5	-2.4	1.9
France	-1.1	-16.5	-1.0	1.6
Italy	-0.2	-0.8	-2.8	1.8
Luxembourg	0.0	0.0	0.0	0.0
Netherlands	-5.9	-4.9	-12.2	1.0
Denmark	-4.2	-7.1	-12.0	1.1
Ireland	-4.0	-11.2	-13.1	5.8
Greece	-15.7	10.6	-21.1	-2.2
Spain	-1.4	-11.2	-4.0	2.6
Austria	-0.5	22.8	-2.8	1.4
Portugal	-4.7	14.9	-6.1	-3.1
Finland	1.4	-18.3	1.7	1.6
Sweden	-4.4	0.4	-7.3	-0.5
United Kingdom	-9.0	-16.9	-13.0	-3.7
Bulgaria	-1.9	-4.2	-1.0	-1.7
Czech Republic	8.0	26.6	7.7	4.6
Estonia	-8.7	16.2	1.8	-24.4
Cyprus				
Latvia	1.4	1.0	-5.0	6.3
Lithuania	1.0	2.0	0.9	1.2
Hungary	3.4	-15.8	5.4	6.9
Malta	0.0	0.0	0.0	0.0
Poland	-0.2	-13.5	-0.5	1.0
Romania	-0.3	7.5	-8.0	3.9
Slovenia	-7.9	-3.7	-13.5	-2.5
Slovakia	-2.3	8.1	-4.2	-2.3

*employees and self-employed **calculated as the cumulative annual average growth rate (CAGR)

Source: Eurostat/TNO

Table 4.6 Employment* growth** 2000-2006 Audio, video and telecom industries (NACE 32)

	32	321	322	323
	<i>CAGR 2000-2006</i>	<i>CAGR 2000-2006</i>	<i>CAGR 2000-2006</i>	<i>CAGR 2000-2006</i>
	(%)	(%)	(%)	(%)
	%	%	%	%
EU	-3.6	-0.9	-6.3	-3.2
EU 6	-2.7	1.2	-5.3	-5.2
EU 9	-8.2	-6.7	-9.1	-8.0
EU 15	-4.8	-1.3	-7.0	-6.2
NMS	1.6	0.3	-0.9	5.6
Belgium	-2.0	-2.7	-4.9	1.8
Germany	-2.4	3.4	-5.4	-9.9
France	-1.0	0.5	-5.4	11.7
Italy	-2.8	0.3	-4.8	-2.4
Luxembourg				
Netherlands	-12.2	-15.9	-25.3	-11.3
Denmark	-12.0	-10.9	-21.0	-8.0
Ireland	-13.1	-8.6	-44.9	-2.1
Greece	-21.1	-15.2	-22.4	-14.7
Spain	-4.0	-1.0	-9.5	-2.0
Austria	-2.8	-0.7	-0.5	-26.3
Portugal	-6.1	-18.7	-6.5	2.5
Finland	1.7	-0.3	1.9	1.8
Sweden	-7.3	-14.8	-5.0	-19.6
United Kingdom	-13.0	-7.9	-20.0	-9.5
Bulgaria	-1.0	8.5	-8.9	-17.0
Czech Republic	7.7	4.1	14.8	8.8
Estonia	1.8	1.8		
Cyprus				
Latvia	-5.0	0.1	-4.6	-9.6
Lithuania	0.9	4.9	-11.4	-4.0
Hungary	5.4	-2.9	5.0	13.7
Malta				
Poland	-0.5	3.3	-3.5	-0.2
Romania	-8.0	-6.0	-9.9	-12.7
Slovenia	-13.5	-11.3	-11.8	-29.5
Slovakia	-4.2	1.0	-23.1	14.5

*employees and self-employed **calculated as the cumulative annual average growth rate (CAGR)

Source: Eurostat/TNO

Table 4.7 Employment* growth** 2000-2006 Medical equipment and precision instruments (NACE 33) and subsectors***

	33	331	332+333+334+335
	<i>CAGR 2000-2006 (%)</i>	<i>CAGR 2000-2006 (%)</i>	<i>CAGR 2000-2006 (%)</i>
EU	1.0	3.9	-0.9
EU 6	1.7	3.4	0.4
EU 9	-1.0	4.0	-3.9
EU 15	1.0	3.6	-0.9
NMS	1.6	6.1	-0.8
Belgium	-1.5	-0.2	-3.0
Germany	1.9	3.9	0.0
France	1.6	4.7	0.1
Italy	1.8	2.1	1.6
Luxembourg	8.3	3.0	9.4
Netherlands	1.0	0.4	1.6
Denmark	1.1	5.8	-3.4
Ireland	5.8	8.0	-0.1
Greece	-2.2	-4.5	-1.0
Spain	2.6	9.4	-3.1
Austria	1.4	1.9	1.0
Portugal	-3.1	-0.2	-5.0
Finland	1.6	-3.0	5.1
Sweden	-0.5	0.4	-1.1
United Kingdom	-3.7	2.5	-5.7
Bulgaria	-1.7	-1.7	-1.7
Czech Republic	4.6	10.2	1.5
Estonia	-24.4	-6.6	-32.3
Cyprus			
Latvia	6.3	5.5	6.8
Lithuania	1.2	8.0	-4.1
Hungary	6.9	12.8	2.6
Malta			
Poland	1.0	3.8	-0.8
Romania	3.9	6.2	3.3
Slovenia	-2.5	-2.4	-2.5
Slovakia	-2.3	1.7	-4.7

Source: Eurostat/TNO. *employees and self-employed **calculated as the cumulative annual average growth rate (CAGR)*** manufacture of medical and surgical equipment and orthopaedic appliances (NACE 331), instruments and appliances for measuring, checking, testing, navigating and other purposes (NACE 332), industrial process control equipment (NACE 333), optical instruments, photographic equipment (NACE 334), watches and clocks (NACE 335)

Table 4.8 Share of sector employment* of Member States in EU sector employment, 2006 and changes in shares, 1999-2006. Electronic and office equipment industries (NACE 30, 32, 33) (in %)

	30+32+33	30	32	33	30+32+33	30	32	33
	<i>Share 2006</i>				<i>Change in share 1999-2006</i>			
EU	100	100	100	100	0	0	0	0
EU 6	57	50	52	62	6	0	8	3
EU 9	25	28	26	23	-10	-10	-15	-3
EU 15	82	78	78	85	-4	-10	-7	0
NMS	18	22	22	15	4	10	7	0
Belgium	1	0	2	1	0	0	0	0
Germany	26	26	18	31	4	8	3	2
France	16	9	19	15	1	-9	5	0
Italy	12	10	11	13	1	0	1	1
Luxembourg	0	0	0	0	0	0	0	0
Netherlands	3	4	2	3	0	1	-1	0
Denmark	1	1	1	2	0	0	0	0
Ireland	2	7	1	2	0	-1	0	1
Greece	0	1	1	0	-4	1	-10	0
Spain	3	3	3	3	0	-1	0	0
Austria	2	2	3	1	0	2	0	0
Portugal	1	1	1	0	0	0	0	0
Finland	3	0	5	1	1	-1	2	0
Sweden	3	3	4	2	-1	1	-1	-1
United Kingdom	10	12	8	11	-5	-11	-6	-3
Bulgaria	1	2	1	1	0	0	0	0
Czech Republic	5	10	6	4	2	9	3	1
Estonia	0	0	1	0	0	0	0	-1
Cyprus	0	0	0	0	0	0	0	0
Latvia	0	0	0	0	0	0	0	0
Lithuania	1	0	1	0	0	0	0	0
Hungary	4	3	7	2	1	-2	4	1
Malta	0	0	0	0	0	0	0	0
Poland	4	1	4	5	0	-1	1	0
Romania	1	3	1	1	0	2	0	0
Slovenia	1	1	1	1	-1	0	-2	0
Slovakia	1	2	1	1	0	1	1	0

* employees and self-employed

Source: Eurostat/TNO

Table 4.8 Share of sector employment* of Member States in EU sector employment, 2006 and changes in shares, 2000-2006. Audio, video and telecom industries (NACE 32), 2006 (in %)

	32	321	322	323	32	321	322	323
	<i>Share 2006</i>				<i>Change in share 2000-2006</i>			
EU	100	100	100	100	0	0	0	0
EU 6	52	57	51	43	3	7	3	-6
EU 9	26	19	36	23	-9	-8	-7	-8
EU 15	78	76	87	66	-6	-2	-4	-14
NMS	22	24	13	34	6	2	4	14
Belgium	2	1	2	4	0	0	0	1
Germany	18	24	14	13	1	5	1	-7
France	19	22	19	12	3	2	1	7
Italy	11	10	15	4	0	1	1	0
Luxembourg	0	0	0	0	0	0	0	0
Netherlands	2	1	0	10	-2	-1	0	-7
Denmark	1	0	0	2	-1	0	-1	-1
Ireland	1	2	0	0	-1	-1	-1	0
Greece	1	0	1	0	-1	0	-3	0
Spain	3	3	2	4	0	0	0	0
Austria	3	3	5	0	0	0	1	-2
Portugal	1	1	1	4	0	-1	0	1
Finland	5	1	12	1	1	0	5	0
Sweden	4	1	9	1	-1	-1	1	-2
United Kingdom	8	8	6	10	-7	-4	-9	-5
Bulgaria	1	1	1	0	0	0	0	0
Czech Republic	6	7	5	5	3	2	4	2
Estonia	1	2	0	0	0	0	0	0
Cyprus	0	0	0	0	0	0	0	0
Latvia	0	0	0	0	0	0	0	0
Lithuania	1	2	0	1	0	0	0	0
Hungary	7	5	2	18	3	-1	1	11
Malta	0	0	0	0	0	0	0	0
Poland	4	3	3	8	1	1	1	1
Romania	1	1	1	0	0	-1	0	0
Slovenia	1	1	0	0	-1	-1	0	-1
Slovakia	1	2	0	1	0	0	-1	1

*employees and self-employed

Source: Eurostat/TNO

Table 4.9 Share of sector employment* of Member States in EU sector employment, 2006 and changes in shares, 2000-2006. Medical equipment and precision instruments (NACE 33)

	33	331	332/335	33	331	332/335
	<i>Share 2006</i>			<i>Change in share 2000-2006</i>		
EU	100	100	100	0	0	0
EU 6	62	64	61	2	-2	5
EU 9	23	23	23	-3	0	-5
EU 15	85	87	84	0	-2	0
NMS	15	13	16	0	2	0
Belgium	1	1	1	0	0	0
Germany	31	37	27	1	0	1
France	15	12	17	0	1	1
Italy	13	12	14	1	-1	2
Luxembourg	0	0	0	0	0	0
Netherlands	3	3	2	0	-1	0
Denmark	2	2	1	0	0	0
Ireland	2	4	1	1	1	0
Greece	0	0	0	0	0	0
Spain	3	4	3	0	1	0
Austria	1	2	1	0	0	0
Portugal	0	0	0	0	0	0
Finland	1	1	1	0	0	0
Sweden	2	2	2	0	0	0
United Kingdom	11	7	13	-3	-1	-5
Bulgaria	1	1	1	0	0	0
Czech Republic	4	4	4	1	1	1
Estonia	0	0	0	-1	0	-1
Cyprus	0	0	0	0	0	0
Latvia	0	0	0	0	0	0
Lithuania	0	0	0	0	0	0
Hungary	2	2	2	1	1	0
Malta	0	0	0	0	0	0
Poland	5	5	5	0	0	0
Romania	1	1	2	0	0	0
Slovenia	1	0	1	0	0	0
Slovakia	1	0	1	0	0	0

* employees and self-employed

Source: Eurostat/TNO

Table 4.10 Share of sector employment* in total employment. Electronic and computing equipment industries (NACE 30, 32, 33), 2006

	30 + 32 + 33	30	32	33
	%	%	%	%
EU	0.94	0.07	0.37	0.50
EU 6	1.15	0.07	0.41	0.67
EU 9	0.68	0.06	0.28	0.33
EU 15	0.95	0.07	0.36	0.53
NMS	0.85	0.08	0.41	0.37
Belgium	0.59	0.01	0.39	0.18
Germany	1.36	0.10	0.38	0.88
France	1.28	0.05	0.60	0.63
Italy	0.98	0.06	0.35	0.57
Luxembourg	1.26	0.00	0.00	1.26
Netherlands	0.64	0.07	0.23	0.34
Denmark	0.88	0.04	0.24	0.60
Ireland	2.07	0.49	0.32	1.26
Greece	0.18	0.02	0.10	0.05
Spain	0.32	0.02	0.12	0.18
Austria	0.92	0.06	0.53	0.33
Portugal	0.34	0.02	0.22	0.10
Finland	2.28	0.01	1.75	0.52
Sweden	1.26	0.09	0.67	0.51
United Kingdom	0.68	0.06	0.22	0.40
Bulgaria	0.41	0.07	0.16	0.18
Czech Republic	2.11	0.31	0.96	0.84
Estonia	1.27	0.06	0.97	0.24
Cyprus	0.00	0.00	0.00	0.00
Latvia	0.29	0.02	0.09	0.18
Lithuania	0.83	0.03	0.55	0.25
Hungary	2.03	0.10	1.39	0.53
Malta	0.00	0.00	0.00	0.00
Poland	0.62	0.01	0.23	0.37
Romania	0.31	0.05	0.09	0.17
Slovenia	1.49	0.11	0.57	0.81
Slovakia	0.73	0.11	0.37	0.25

Source: Eurostat/TNO

Table 4.11 Share of sector employment* in total manufacturing employment. Electronic and computing equipment industries (NACE 30, 32, 33), 2006

	30 + 32 + 33	30	32	33
	%	%	%	%
EU	5.98	0.44	2.37	3.18
EU 6	7.02	0.44	2.51	4.07
EU 9	5.39	0.45	2.27	2.67
EU 15	6.43	0.45	2.42	3.57
NMS	4.54	0.40	2.19	1.94
Belgium	4.19	0.11	2.77	1.32
Germany	7.46	0.54	2.07	4.84
France	8.84	0.37	4.13	4.34
Italy	5.28	0.34	1.87	3.06
Luxembourg	6.92	0.00	0.00	6.92
Netherlands	6.92	0.81	2.50	3.61
Denmark	5.93	0.28	1.61	4.04
Ireland	19.17	4.57	2.94	11.66
Greece	2.11	0.27	1.21	0.64
Spain	2.46	0.15	0.91	1.39
Austria	7.09	0.48	4.10	2.51
Portugal	2.11	0.10	1.37	0.64
Finland	13.68	0.07	10.49	3.12
Sweden	7.00	0.49	3.70	2.81
United Kingdom	6.25	0.59	2.00	3.66
Bulgaria	2.23	0.40	0.85	0.98
Czech Republic	7.77	1.13	3.54	3.09
Estonia	6.23	0.29	4.75	1.19
Cyprus	0.00	0.00	0.00	0.00
Latvia	1.93	0.11	0.61	1.20
Lithuania	4.66	0.17	3.10	1.39
Hungary	10.18	0.51	6.99	2.68
Malta	0.00	0.00	0.00	0.00
Poland	3.47	0.08	1.32	2.07
Romania	1.88	0.29	0.54	1.05
Slovenia	5.90	0.43	2.25	3.22
Slovakia	4.05	0.59	2.09	1.37

Source: Eurostat/TNO

Table 4.12 Share of sector employment* of Member States in EU sector employment, 2006, and changes in share, 2000-2006. Office equipment and computer industries (NACE 30),

	30	30
	<i>Share 2006</i>	<i>Change in share 2000-2006</i>
EU	0.07	-0.04
EU 6	0.07	-0.04
EU 9	0.06	-0.08
EU 15	0.07	-0.06
NMS	0.08	0.01
Belgium	0.02	-0.01
Germany	0.10	-0.02
France	0.05	-0.11
Italy	0.06	-0.01
Luxembourg	0.00	0.00
Netherlands	0.07	-0.03
Denmark	0.04	-0.02
Ireland	0.49	-0.71
Greece	0.02	0.01
Spain	0.02	-0.03
Austria	0.07	0.05
Portugal	0.02	0.01
Finland	0.01	-0.03
Sweden	0.09	0.00
United Kingdom	0.06	-0.13
Bulgaria	0.07	-0.03
Czech Republic	0.30	0.23
Estonia	0.06	0.03
Cyprus		
Latvia	0.02	0.00
Lithuania	0.03	0.00
Hungary	0.10	-0.19
Malta		
Poland	0.02	-0.02
Romania	0.05	0.01
Slovenia	0.11	-0.03
Slovakia	0.11	0.04

* employees and self-employed

Source: Eurostat/TNO

Table 4.13 Share of sector employment* of Member States in EU sector employment, 2006, and changes in share, 2000-2006. Audio, video and telecom industries (NACE 32)

	32	321	322	323	32	321	322	323
	<i>Share 2006</i>				<i>Change in share 2000-2006</i>			
EU	0.37	0.15	0.14	0.08	-0.11	-0.02	-0.07	-0.02
EU 6	0.41	0.19	0.15	0.07	-0.09	0.01	-0.06	-0.03
EU 9	0.28	0.08	0.14	0.05	-0.23	-0.05	-0.13	-0.04
EU 15	0.35	0.14	0.15	0.06	-0.15	-0.02	-0.09	-0.04
NMS	0.43	0.19	0.09	0.15	0.04	0.00	0.00	0.04
Belgium	0.39	0.10	0.14	0.15	-0.07	-0.02	-0.06	0.01
Germany	0.38	0.21	0.11	0.06	-0.06	0.04	-0.04	-0.05
France	0.60	0.29	0.22	0.09	-0.06	0.00	-0.10	0.04
Italy	0.35	0.13	0.19	0.03	-0.10	-0.01	-0.08	-0.01
Luxembourg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Netherlands	0.23	0.02	0.00	0.21	-0.29	-0.04	-0.02	-0.23
Denmark	0.24	0.05	0.04	0.14	-0.28	-0.06	-0.13	-0.10
Ireland	0.32	0.27	0.01	0.04	-0.57	-0.29	-0.27	-0.02
Greece	0.10	0.01	0.08	0.01	-0.36	-0.02	-0.32	-0.02
Spain	0.12	0.05	0.03	0.04	-0.07	-0.02	-0.04	-0.01
Austria	0.61	0.24	0.35	0.02	-0.13	-0.02	-0.02	-0.09
Portugal	0.22	0.04	0.06	0.12	-0.11	-0.09	-0.03	0.01
Finland	1.75	0.18	1.52	0.05	0.07	-0.02	0.08	0.00
Sweden	0.67	0.05	0.58	0.03	-0.42	-0.09	-0.24	-0.09
United Kingdom	0.20	0.09	0.06	0.06	-0.29	-0.06	-0.17	-0.05
Bulgaria	0.16	0.10	0.04	0.01	-0.03	0.03	-0.04	-0.02
Czech Republic	0.94	0.48	0.30	0.16	0.32	0.09	0.17	0.06
Estonia	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Cyprus								
Latvia	0.09	0.03	0.04	0.03	-0.05	0.00	-0.02	-0.03
Lithuania	0.56	0.38	0.02	0.17	0.00	0.08	-0.02	-0.06
Hungary	1.39	0.45	0.15	0.79	0.36	-0.10	0.04	0.42
Malta								
Poland	0.26	0.07	0.08	0.11	0.02	0.02	-0.01	0.01
Romania	0.09	0.05	0.03	0.01	-0.07	-0.03	-0.03	-0.01
Slovenia	0.57	0.38	0.16	0.03	-0.83	-0.43	-0.19	-0.21
Slovakia	0.40	0.25	0.05	0.10	-0.15	0.00	-0.20	0.05

* employees and self-employed

Source: Eurostat/TNO

Table 4.14 Share of sector employment* of Member States in EU sector employment, 2006, and changes in share, 2000-2006. Medical equipment and precision instruments (NACE 33)

	33	331 <i>Share 2006</i>	332/335	33	331 <i>Change in share 2000-2006</i>	332/335
EU	0.50	0.22	0.28	0.01	0.04	-0.03
EU 6	0.67	0.30	0.36	0.05	0.05	0.00
EU 9	0.33	0.14	0.18	-0.05	0.02	-0.07
EU 15	0.52	0.24	0.29	0.00	0.03	-0.03
NMS	0.38	0.15	0.23	0.04	0.05	-0.01
Belgium	0.19	0.10	0.08	-0.03	-0.01	-0.02
Germany	0.88	0.46	0.42	0.09	0.09	0.00
France	0.63	0.23	0.40	0.03	0.05	-0.01
Italy	0.57	0.23	0.34	0.02	0.01	0.01
Luxembourg	0.80	0.11	0.69	0.20	0.00	0.20
Netherlands	0.34	0.16	0.18	0.01	0.00	0.01
Denmark	0.60	0.34	0.26	0.03	0.09	-0.06
Ireland	1.26	0.99	0.27	0.18	0.24	-0.06
Greece	0.05	0.02	0.04	-0.02	-0.01	-0.01
Spain	0.18	0.10	0.08	-0.01	0.03	-0.04
Austria	0.37	0.18	0.19	0.02	0.01	0.01
Portugal	0.10	0.05	0.06	-0.02	0.00	-0.02
Finland	0.52	0.19	0.33	0.02	-0.05	0.07
Sweden	0.51	0.22	0.28	-0.04	0.00	-0.03
United Kingdom	0.37	0.11	0.26	-0.12	0.01	-0.13
Bulgaria	0.18	0.07	0.11	-0.04	-0.02	-0.03
Czech Republic	0.82	0.35	0.47	0.18	0.15	0.03
Estonia	0.25	0.14	0.11	-1.22	-0.09	-1.13
Cyprus						
Latvia	0.18	0.07	0.11	0.04	0.01	0.03
Lithuania	0.25	0.14	0.11	0.00	0.05	-0.04
Hungary	0.53	0.27	0.27	0.17	0.13	0.04
Malta						
Poland	0.40	0.17	0.23	0.07	0.05	0.02
Romania	0.18	0.03	0.14	0.03	0.01	0.02
Slovenia	0.81	0.11	0.70	-0.16	-0.02	-0.14
Slovakia	0.26	0.11	0.15	-0.06	0.00	-0.06

* employees and self-employed

Source: Eurostat/TNO

5. Firm size

Table 5.1 Employment by firm size. Share and changes in share of employment by firm size in Electronic and computing equipment industries (NACE 30+32+33)

	Shares 2006			Total change of shares 1999-2006		
	<49 <i>Number of employees</i>	50-249 <i>Number of employees</i>	>249	<49 <i>Number of employees</i>	50-249 <i>Number of employees</i>	>249
EU	29.5	21.5	49.0	3.8	2.6	-6.4
EU 6	33.0	20.9	46.1	3.4	2.6	-6.0
EU 9	23.6	23.6	52.8	5.2	4.0	-9.2
EU 15	30.1	21.7	48.2	4.6	3.0	-7.5
NMS	26.3	20.3	53.3	-0.8	-0.2	1.0
Belgium	24.0	20.8	55.3	4.6	3.1	-7.6
France	27.6	20.3	52.1	4.2	2.6	-6.8
Germany	31.8	23.1	45.1	4.4	3.4	-7.8
Italy	46.5	19.7	33.8	0.2	2.5	-2.7
Luxembourg						
Netherlands	21.8	12.3	65.9			
Denmark	21.8	33.8	44.4	3.3	3.2	-6.6
Ireland	3.6	17.4	79.0	-1.2	-1.9	3.0
Greece						
Spain	48.4	21.2	30.4	16.5	-2.5	-14.0
Austria						
Portugal	23.2	21.6	55.2	3.7	6.9	-10.6
Finland	10.3	10.8	78.9			
Sweden	18.5	18.3	63.2	4.2	6.0	-10.2
United Kingdom	27.3	31.2	41.6	7.1	9.2	-16.3
Bulgaria	36.2	40.9	22.9			
Czech Republic	27.3	20.8	51.9		-1.1	9.5
Estonia	24.4	23.7	51.9			
Cyprus						
Latvia	48.8	40.8	10.4			
Lithuania						
Hungary	20.1	15.5	64.4	8.0	-3.9	-4.1
Malta						
Poland	33.8	19.8	46.4			
Romania	27.5	24.7	47.8	9.4	8.7	-18.1
Slovenia	24.9	26.8	48.2			
Slovakia	13.8	27.5	58.7			

Source: Eurostat/TNO

Table 5.2 Number of firms by firm size. Share and changes in share of firms by firm size in Electronic and computing equipment industries (NACE 30+32+33)

	Shares 2006			Total change of shares 1999-2006		
	<49	50-249	>249	<49	50-249	>249
	<i>Number of employees</i>			<i>Number of employees</i>		
EU	96.1	3.1	0.8	0.4	-0.1	-0.2
EU 6	96.1	3.3	0.7	-0.4	0.4	-0.1
EU 9	94.7	4.0	1.3	2.7	-1.7	-1.0
EU 15	95.7	3.5	0.9	0.2	0.0	-0.2
NMS	97.6	1.8	0.6	0.5	-0.3	-0.2
Belgium	96.7	2.5	0.7	1.2	-0.8	-0.4
France	95.7	3.4	0.9	0.3	-0.2	-0.1
Germany	93.0	5.9	1.1	-0.4	0.7	-0.4
Italy	98.2	1.5	0.3	-0.4	0.3	0.0
Luxembourg	95.3	1.6	3.1	1.3	-0.4	-0.9
Netherlands	95.7	3.6	0.7	-0.9	0.5	0.4
Denmark	90.7	7.4	1.8	1.6	-0.6	-1.0
Ireland	47.9	29.0	23.1	-2.9	-3.1	6.0
Greece						
Spain	97.5	1.8	0.7	3.5	-2.7	-0.8
Austria	95.0	3.6	1.5	2.4	-1.7	-0.7
Portugal	96.5	2.6	0.9	0.9	-0.2	-0.7
Finland	93.9	4.1	2.0	0.0	0.4	-0.4
Sweden	96.2	2.8	1.1	1.0	-0.5	-0.5
United Kingdom	92.8	5.8	1.4	1.5	-0.6	-0.9
Bulgaria	94.5	4.5	1.0			
Czech Republic	97.9	1.6	0.6	0.5	-0.4	-0.2
Estonia	88.6	10.1	1.3	-3.1	3.9	-0.8
Cyprus	100.0	0.0	0.0			
Latvia	94.2	5.4	0.4	0.1	0.7	-0.8
Lithuania	90.9	7.4	1.8	2.1	-0.1	-2.0
Hungary	97.2	2.0	0.8	16.1	-10.6	-5.5
Malta						
Poland	98.3	1.3	0.4	-0.1	0.2	-0.1
Romania	95.1	3.7	1.2	4.4	-1.8	-2.6
Slovenia	95.9	3.2		2.5	-2.4	
Slovakia	88.4	7.0	4.6			

Source: Eurostat/TNO

6. Employment and entrepreneurs

Table 6.1 Share of employees, entrepreneurs and part-time employment in office equipment and computer industries (NACE 30), 2006

	Employment in sector	Share of employees	Share of entrepreneurs	Share of part-time workers
EU	150 429	0.77	0.23	0.07
EU 6	74 585	0.75	0.25	0.09
EU 9	42 691	0.85	0.15	0.06
EU 15	117 277	0.78	0.22	0.08
NMS	33 152	0.73	0.27	0.02
Belgium	642	0.91	0.09	0.16
Germany	38 382	0.96	0.04	0.11
France	13 611	0.23	0.77	0.01
Italy	15 671	0.59	0.41	0.05
Luxembourg	0			
Netherlands	6 279	0.89	0.11	0.19
Denmark	1 164	0.79	0.21	0.05
Ireland	10 054	0.84	0.16	0.07
Greece	1 086	0.07	0.93	0.00
Spain	3 964	0.90	0.10	0.01
Austria	2 977	0.49	0.51	0.09
Portugal	845	0.72	0.28	0.00
Finland	265	0.83	0.17	0.00
Sweden	3 885	0.98	0.02	0.13
United Kingdom	18 451	0.93	0.07	0.06
Bulgaria	2 664	0.44	0.56	0.00
Czech Republic	15 331	0.71	0.29	0.01
Estonia	388	0.96	0.04	0.03
Cyprus	0			
Latvia	183	0.73	0.27	0.16
Lithuania	450	0.74	0.26	0.15
Hungary	3 998	0.76	0.24	0.02
Malta	0			
Poland	2 158	0.99	0.01	0.00
Romania	4 540	0.75	0.25	0.03
Slovenia	1 012	0.71	0.29	0.01
Slovakia	2 428	0.88	0.12	0.01

Source: Eurostat/TNO

Table 6.2 Share of employees, entrepreneurs and part-time employment in audio, video and telecom industries (NACE 32), 2006

	Employment in sector	Share of employees	Share of entrepreneurs	Share of part-time workers
EU	817 740	0.85	0.15	0.04
EU 6	420 474	0.86	0.14	0.07
EU 9	213 603	0.83	0.17	0.04
EU 15	634 077	0.85	0.15	0.06
NMS	183 663	0.83	0.17	0.01
Belgium	16 845	0.99	0.01	0.13
Germany	147 492	0.92	0.08	0.07
France	150 938	0.79	0.21	0.05
Italy	85 751	0.88	0.12	0.04
Luxembourg	0			
Netherlands	19 448	0.83	0.17	0.24
Denmark	6 687	0.71	0.29	0.07
Ireland	6 473	0.93	0.07	0.01
Greece	4 830	0.89	0.11	0.00
Spain	23 554	0.93	0.07	0.02
Austria	25 613	0.93	0.07	0.11
Portugal	11 342	0.91	0.09	0.00
Finland	42 674	0.84	0.16	0.00
Sweden	29 539	0.76	0.24	0.05
United Kingdom	62 890	0.76	0.24	0.03
Bulgaria	5 642	0.94	0.06	0.01
Czech Republic	47 999	0.67	0.33	0.00
Estonia	6 278	0.90	0.10	0.01
Cyprus	32	0.52	0.48	0.00
Latvia	1 006	0.78	0.22	0.05
Lithuania	8 309	0.82	0.18	0.02
Hungary	54 361	0.98	0.02	0.01
Malta	3 590	0.82	0.18	0.02
Poland	34 109	0.75	0.25	0.00
Romania	8 406	0.90	0.10	0.02
Slovenia	5 315	0.86	0.14	0.01
Slovakia	8 614	0.97	0.03	0.01

Source: Eurostat/TNO

Table 6.3 Share of employees, entrepreneurs and part-time employment in medical equipment and precision instruments (NACE 33), 2006

	Employment in sector	Share of employees	Share of entrepreneurs in	Share of part-time workers
EU	1 094 875	0.87	0.13	0.08
EU 6	681 946	0.86	0.14	0.10
EU 9	252 067	0.95	0.05	0.06
EU 15	934 012	0.88	0.12	0.09
NMS	160 863	0.78	0.22	0.03
Belgium	8 028	0.88	0.12	0.15
Germany	344 206	0.93	0.07	0.14
France	158 898	0.83	0.17	0.06
Italy	140 110	0.70	0.30	0.05
Luxembourg	2 560	0.84	0.16	0.06
Netherlands	28 144	0.88	0.12	0.18
Denmark	16 751	0.94	0.06	0.07
Ireland	25 661	0.95	0.05	0.06
Greece	2 543	0.61	0.39	0.00
Spain	36 096	0.90	0.10	0.02
Austria	15 666	0.98	0.02	0.16
Portugal	5 289	0.89	0.11	0.00
Finland	12 680	0.91	0.09	0.02
Sweden	22 443	0.98	0.02	0.08
United Kingdom	114 937	0.97	0.03	0.06
Bulgaria	6 515	0.77	0.23	0.03
Czech Republic	41 858	0.68	0.32	0.03
Estonia	1 570	0.90	0.10	0.07
Cyprus	199	0.79	0.21	0.01
Latvia	1 968	0.92	0.08	0.22
Lithuania	3 718	0.96	0.04	0.12
Hungary	20 829	0.93	0.07	0.05
Malta	991	0.92	0.08	0.02
Poland	53 703	0.74	0.26	0.00
Romania	16 282	0.80	0.20	0.03
Slovenia	7 589	0.95	0.05	0.01
Slovakia	5 641	0.94	0.06	0.02

Source: Eurostat/TNO

7. Employment and occupations

Table 7.1 Employment by occupation in electronic and computing equipment industries (in absolute numbers times 1,000) (NACE 30+32+33), 2006

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft. trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	2058	185	158	396	90	213	180	20	94	153	118	45	222	107	79
EU 6	1177	78	91	260	43	140	112	14	57	80	84	32	90	52	45
EU9	508	87	44	87	33	38	46	4	12	35	20	6	47	26	23
EU15	1685	172	133	333	77	176	163	17	69	119	107	40	128	81	70
NMS	373	20	23	49	13	35	21	3	25	38	15	6	85	29	11
Belgium	26	4	2	6	2	2	3	0	0	1	2	0	1	1	1
Germany	530	33	35	112	22	46	58	4	32	42	61	24	17	19	25
France	323	24	34	96	8	41	20	6	13	17	1	2	48	9	6
Italy	242	11	15	39	8	46	26	2	10	18	14	4	19	20	9
Luxemb.	3	0	0	1	0	0	0	0	0	0	0	0	1	0	0
Netherl.	54	6	6	6	4	5	5	2	2	2	5	2	4	3	4
Denmark	25	2	1	7	2	1	2	1	1	0	1	0	4	1	1
Ireland	42	4	2	6	2	1	4	1	2	2	2	0	8	3	5
Greece	8	0	1	1	0	0	1	0	0	1	4	0	0	0	0
Spain	64	6	7	6	4	11	7	1	1	8	1	1	4	4	3
Austria	44	4	4	9	3	4	4	1	2	3	3	2	1	1	4
Portugal	17	1	1	2	0	2	1	0	1	3	1	0	4	1	1
Finland	56	12	8	14	2	4	2	0	1	3	3	0	5	1	1
Sweden	56	4	4	14	6	6	4	0	1	3	1	1	8	2	1
UK	196	54	17	25	14	10	22	1	3	11	4	1	14	13	7
Bulgaria	15	1	0	2	1	3	1	0	1	2	0	0	1	1	1
Czech Rep.	105	6	10	13	3	10	6	1	5	11	5	1	25	8	2
Estonia	8	2	0	1	0	0	1	0	0	0	0	0	3	0	0
Cyprus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latvia	3	0	0	1	0	0	0	0	1	0	0	0	0	1	0
Lithuania	12	0	0	1	0	0	0	0	2	2	0	1	3	2	0
Hungary	79	3	2	6	3	6	6	0	5	7	5	2	24	8	2
Malta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poland	90	5	4	15	4	10	5	1	6	12	3	1	14	4	4
Romania	29	3	1	6	0	3	2	1	4	3	0	0	5	2	1
Slovenia	14	0	1	3	1	0	0	0	1	1	1	0	4	1	0
Slovakia	17	0	3	1	0	2	1	0	0	1	0	0	5	1	2

Source: Alphametrics/Eurostat/TNO

Table 7.2 Share of employment by occupation in Electronic and computing equipment industries (NACE 30+32+33), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	100	9	8	19	4	10	9	1	5	7	6	2	11	5	11
EU 6	100	7	8	22	4	12	9	1	5	7	7	3	8	4	8
EU9	100	17	9	17	7	8	9	1	2	7	4	1	9	5	9
EU15	100	10	8	20	5	10	10	1	4	7	6	2	8	5	8
NMS	100	5	6	13	3	9	6	1	7	10	4	2	23	8	23
Belgium	100	15	6	24	6	10	10	0	1	3	7	1	5	4	5
Germany	100	6	7	21	4	9	11	1	6	8	12	5	3	4	3
France	100	7	11	30	2	13	6	2	4	5	0	1	15	3	15
Italy	100	5	6	16	3	19	11	1	4	7	6	2	8	8	8
Luxemb.	100	4	0	22	9	0	14	0	0	0	5	0	42	0	42
Netherl.	100	11	11	12	7	9	9	3	3	4	9	3	8	5	8
Denmark	100	9	4	30	7	3	8	3	3	2	4	1	15	4	15
Ireland	100	11	5	15	4	3	9	2	4	5	4	1	19	6	19
Greece	100	0	7	18	1	2	8	0	1	9	44	0	1	5	1
Spain	100	9	11	10	6	18	11	1	1	13	2	1	6	6	6
Austria	100	9	8	21	7	9	9	1	4	8	7	6	2	3	2
Portugal	100	4	4	12	1	11	6	0	7	17	4	0	23	6	23
Finland	100	21	14	26	4	6	3	0	2	5	5	1	9	1	9
Sweden	100	6	7	26	11	10	7	0	3	5	3	2	15	4	15
UK	100	28	9	13	7	5	11	0	2	6	2	1	7	6	7
Bulgaria	100	4	3	13	5	22	4	0	8	12	3	0	9	10	9
Czech Rep.	100	5	10	12	3	10	6	1	5	10	4	1	24	8	24
Estonia	100	20	5	10	6	6	6	0	5	1	3	0	32	2	32
Cyprus															
Latvia	100	0	0	16	0	0	0	0	23	15	10	5	9	22	9
Lithuania	100	2	1	8	2	1	0	0	13	15	0	10	26	19	26
Hungary	100	4	3	8	3	7	8	0	7	9	6	2	31	11	31
Malta															
Poland	100	6	5	17	5	11	6	1	6	13	3	2	16	5	16
Romania	100	9	3	21	1	11	6	2	12	10	0	1	17	6	17
Slovenia	100	3	6	20	5	2	3	0	4	6	5	1	32	11	32
Slovakia	100	3	20	8	1	11	5	0	3	4	3	1	27	3	27

Source: Alphametrics/Eurostat/TNO

Table 7.3 Change in share of employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	1	2	2	0	2	-2	0	0	-1	0	0	-2	1	-1
EU 6	1	1	3	0	2	-3	0	0	-1	0	-1	-2	1	-1
EU 9	4	2	1	1	3	-1	0	-1	-2	-1	1	-9	0	1
EU 15	2	1	2	0	3	-2	0	-1	-2	0	0	-5	1	0
EU 12	0	3	4	2	-5	-2	0	0	-2	-1	0	5	1	-5
Belgium	8	-1	3	1	3	-3	0	-3	-2	1	-1	4	1	-12
Germany	0	1	2	0	0	-1	0	0	-2	0	-2	0	0	-1
France	3	2	4	-1	4	-6	1	-1	0	-1	-1	-4	-1	0
Italy	1	2	7	-1	3	-6	-4	-1	-1	-1	1	-3	4	0
Luxemb.	4	0	14	9	-4	3	0	-9	-7	-7	0	15	-18	0
Netherl.	-2	5	-3	1	2	0	1	-1	-3	-2	1	-1	0	1
Denmark	-4	-2	6	1	-3	3	3	1	-5	1	0	3	1	-6
Ireland	1	2	1	0	1	1	0	2	0	3	1	-21	3	7
Greece	-3	-1	10	-5	1	5	0	-4	-4	3	0	-5	1	2
Spain	3	1	-2	2	1	2	0	0	1	-2	1	-4	0	-3
Austria	-1	1	1	5	6	-2	1	-1	-10	-3	5	-8	0	6
Portugal	1	3	-8	0	1	-4	-1	2	7	4	0	1	-2	-4
Finland	8	6	-1	-1	0	0	0	-1	-1	1	1	-9	0	-1
Sweden	2	1	-5	-1	7	-2	0	1	1	-2	1	-5	0	2
U. K.	9	2	1	3	3	-1	0	-3	-3	-1	0	-11	1	0
Bulgaria	-10	1	-5	3	8	0	-4	-3	-1	3	-2	5	0	5
Czech R.	2	4	1	1	2	-2	1	-1	-6	-2	0	7	2	-10
Estonia	7	5	6	6	-11	6	0	5	-3	3	0	9	-6	-26
Cyprus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latvia	0	0	16	0	0	0	-41	15	-35	10	5	9	22	0
Lithuania	-10	1	3	2	1	0	0	-10	-6	0	10	24	-5	-10
Hungary	-1	1	0	2	0	4	-1	0	-5	-4	1	1	4	0
Malta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Romania	9	3	21	1	-48	-25	2	12	10	0	1	17	6	-8
Slovenia	-3	2	0	1	-2	-7	0	1	-7	-3	-1	14	1	2
Slovakia	-2	16	-2	0	0	2	-1	-6	-4	2	-1	2	-9	4

Source: Alphametrics/Eurostat/TNO

8. Occupations and gender

Table 8.1 Share of males in employment by occupation in in electronic and computing equipment industries (NACE 30+32+33), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft. trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	64	80	83	88	58	55	31	40	78	73	59	48	33	56	33
EU 6	67	82	85	89	64	59	33	40	78	79	57	67	36	60	36
EU9	68	79	84	89	58	58	25	40	85	86	69	79	42	60	42
EU15	67	80	85	89	62	60	31	40	80	82	59	68	38	60	38
NMS	50	77	74	80	37	37	32	41	76	50	55	51	26	44	26
Belgium	67	76	74	89	84	57	40	100	100	62	60	70	27	33	27
Germany	66	80	83	91	62	48	33	31	83	84	56	64	12	64	12
France	66	79	84	89	57	55	19	22	64	60	100	100	37	59	37
Italy	68	91	87	86	66	74	42	73	78	86	49	67	47	56	47
Luxemb.	41	100		79	100		38				100		0		0
Netherl.	78	90	95	92	72	63	44	82	98	89	73	81	73	84	73
Denmark	58	96	90	90	42	43	17	39	62	100	57	100	4	22	4
Ireland	59	64	75	75	43	54	39	60	91	90	68	59	46	53	46
Greece	75		74	100	53	0	50		100	87	70		0	100	0
Spain	70	76	84	92	93	62	22	35	79	93	69	100	50	65	50
Austria	70	89	93	93	54	45	31	8	86	98	68	62	39	60	39
Portugal	56	66	100	87	100	44	58	0	70	49	66		38	68	38
Finland	69	81	80	84	44	25	18	100	100	69	56	100	42	75	42
Sweden	68	85	81	90	54	55	30	59	84	74	70	80	53	45	53
UK	70	79	86	91	55	81	21	33	87	93	82	100	43	61	43
Bulgaria	47	92	74	62	21	37	54		43	44	30	0	33	47	33
Czech Rep.	51	71	82	79	53	46	29	22	93	54	58	30	20	45	20
Estonia	43	71	68	64	0	0	0		87	73	100		25	69	25
Cyprus															
Latvia	68			100					100	100	0	100	0	42	0
Lithuania	45	100	100	49	0	0	0		91	28	100	34	40	34	40
Hungary	49	64	52	93	36	37	35	46	79	62	59	85	31	44	31
Malta															
Poland	56	96	84	81	36	31	32	44	100	49	46	46	38	61	38
Romania	33	56	100	77	0	47	26	69	0	0	0	0	0	0	0
Slovenia	52	100	92	82	46	0	36		93	94	56	100	16	38	16
Slovakia	40	84	38	88	28	22	41	0	75	75	70	100	22	63	22

Source: Alphametries/Eurostat/TNO

Table 8.2 Change in share of male employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers	Total
EU	2	-3	-1	-8	-4	-3	-7	-5	-6	-5	-3	-3	-7	8	0
EU 6	3	-3	-2	-2	-3	0	-8	-7	0	-5	-2	-2	-3	2	1
EU 9	1	-1	2	-8	-2	-10	-16	3	0	-1	12	4	-6	11	2
EU 15	2	-2	0	-5	-1	-3	-9	-4	0	-4	-1	0	-4	4	1
NMS	-5	0	2	-20	-12	0	16	-1	-16	-11	-38	1	-11	19	-2
Belgium	-4	-26	0	-7	1	-9		0	10	-7	-30	27	33	-5	-3
Germany	-1	0	0	1	2	4	-9	-3	2	-2	-5	3	-3	-2	0
France	11	-5	-1	-5	-12	-1	-8	-25	4	38	39	-3	0	14	2
Italy	16	-4	-7	-8	-3	-8	20	1	-8	-22	14	3	-14	0	0
Luxemb.			-21			-17				100		0		0	11
Netherl.	-4	-5	-2	-3	-20	-8	34	6	11	3	-19	22	17	26	2
Denmark	17	12	1	-11	-9	-18		-38	22	57	100	4	-47	3	-1
Ireland	0	-12	-5	-10	13	-2	18	-1	9	-14	32	7	6	-6	5
Greece		-11	0	12	-100	50		0	1	-3		0	0	74	5
Spain	-24	6	5	26	-1	-24	-40	22	-1	-5	0	22	5	14	2
Austria	8	-6	-2	0	-19	-7	1	12	10	8	2	7	15	1	-1
Portugal	-34	0	18	100	-27	5	0	-1	7			-7	3	5	2
Finland	-7	-4	-3	-3	-5	-2	100	19	-2	-1	0	22	-6	3	6
Sweden	1	-5	9	-13	-21	11	-41	46	1	-8	80	25	-24		7
U. K.	3	-1	1	-21	14	-15	-31	1	2	4	13	-4	-5	17	1
Bulgaria	21	74	-9	-34	10	54		-13	-28		-100	-40	-26	44	-9
Czech R.	-12	3	7	-16	-5	12	22	19	-15	-11	-41	5	-7	18	0
Estonia	-29		-36		-52				-27			-11	69	54	3
Cyprus															
Latvia								0	11						15
Lithuania	40		-51					-9	-2			40	-66	5	-26
Hungary	-9	-30	4	14	3	12	-11	20	5	-13	-15	3	-9	19	0
Malta															
Poland															
Romania					-12	-13								70	-13
Slovenia	0	-8	1	-25	-28	-24		-7	-6	16	0	-13	38	-23	-10
Slovakia	-16	0	23	-72	7	41	-100	-25	26	70	0	1	-14	-9	-8

Source: Alphametrics/Eurostat/TNO

Table 8.3 Share of females in employment by occupation in electronic and computing equipment industries (NACE 30+32+33) (NACE 26), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	36	20	17	12	42	45	69	60	22	27	41	34	67	44	67
EU 6	33	18	15	11	36	41	67	60	22	21	43	33	64	40	64
EU9	32	21	16	11	42	42	75	60	15	14	31	21	58	40	58
EU15	33	20	15	11	38	40	69	60	20	18	41	32	62	40	62
NMS	50	23	26	20	63	63	68	59	24	50	45	49	74	56	74
Belgium	33	24	26	11	16	43	60	0	0	38	40	30	73	67	73
Germany	34	20	17	9	38	52	67	69	17	16	44	36	88	36	88
France	34	21	16	11	43	45	81	78	36	40	0	0	63	41	63
Italy	32	9	13	14	34	26	58	27	22	14	51	33	53	44	53
Luxemb.	59	0		21	0		62				0		100		100
Netherl.	22	10	5	8	28	37	56	18	2	11	27	19	27	16	27
Denmark	42	4	10	10	58	57	83	61	38	0	43	0	96	78	96
Ireland	41	36	25	25	57	46	61	40	9	10	32	41	54	47	54
Greece	25		26	0	47	100	50		0	13	30		100	0	100
Spain	30	24	16	8	7	38	78	65	21	7	31	0	50	35	50
Austria	30	11	7	7	46	55	69	92	14	2	32	38	61	40	61
Portugal	44	34	0	13	0	56	42	100	30	51	34		62	32	62
Finland	31	19	20	16	56	75	82	0	0	31	44	0	58	25	58
Sweden	32	15	19	10	46	45	70	41	16	26	30	20	47	55	47
UK	30	21	14	9	45	19	79	67	13	7	18	0	57	39	57
Bulgaria	53	8	26	38	79	63	46		57	56	70	100	67	53	67
Czech Rep.	49	29	18	21	47	54	71	78	7	46	42	70	80	55	80
Estonia	57	29	32	36	100	100	100		13	27	0		75	31	75
Cyprus															
Latvia	32			0					0	0	100	0	100	58	100
Lithuania	55	0	0	51	100	100	100		9	72	0	66	60	66	60
Hungary	51	36	48	7	64	63	65	54	21	38	41	15	69	56	69
Malta															
Poland	44	4	16	19	64	69	68	56	0	51	54	54	62	39	62
Romania	67	44	0	23	100	53	74	31	100	100	100	100	100	100	100
Slovenia	48	0	8	18	54	100	64		7	6	44	0	84	62	84
Slovakia	60	16	62	12	72	78	59	100	25	25	30	0	78	37	78

Source: Alphametrics/Eurostat/TNO

Table 8.4 Change in share of female employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers	Total
EU	-2	3	1	8	4	3	7	5	6	5	3	3	7	-8	0
EU 6	-3	3	2	2	3	0	8	7	0	5	2	2	3	-2	-1
EU 9	-1	1	-2	8	2	10	16	-3	0	1	-12	-4	6	-11	-2
EU 15	-2	2	0	5	1	3	9	4	0	4	1	0	4	-4	-1
NMS	5	0	-2	20	12	0	-16	1	16	11	38	-1	11	-19	2
Belgium	4	26	0	7	-1	9		0	-10	7	30	-27	-33	5	3
Germany	1	0	0	-1	-2	-4	9	3	-2	2	5	-3	3	2	0
France	-11	5	1	5	12	1	8	25	-4	-38	-39	3	0	-14	-2
Italy	-16	4	7	8	3	8	-20	-1	8	22	-14	-3	14	0	0
Luxemb.			21			17				-100		0		0	-11
Netherl.	4	5	2	3	20	8	-34	-6	-11	-3	19	-22	-17	-26	-2
Denmark	-17	-12	-1	11	9	18		38	-22	-57	-100	-4	47	-3	1
Ireland	0	12	5	10	-13	2	-18	1	-9	14	-32	-7	-6	6	-5
Greece		11	0	-12	100	-50		0	-1	3		0	0	-74	-5
Spain	24	-6	-5	-26	1	24	40	-22	1	5	0	-22	-5	-14	-2
Austria	-8	6	2	0	19	7	-1	-12	-10	-8	-2	-7	-15	-1	1
Portugal	34	0	-18	-100	27	-5	0	1	-7			7	-3	-5	-2
Finland	7	4	3	3	5	2	-100	-19	2	1	0	-22	6	-3	-6
Sweden	-1	5	-9	13	21	-11	41	-46	-1	8	-80	-25	24		-7
U. K.	-3	1	-1	21	-14	15	31	-1	-2	-4	-13	4	5	-17	-1
Bulgaria	-21	-74	9	34	-10	-54		13	28		100	40	26	-44	9
Czech R.	12	-3	-7	16	5	-12	-22	-19	15	11	41	-5	7	-18	0
Estonia	29		36		52				27			11	-69	-54	-3
Cyprus															
Latvia								0	-11						-15
Lithuania	-40		51					9	2			-40	66	-5	26
Hungary	9	30	-4	-14	-3	-12	11	-20	-5	13	15	-3	9	-19	0
Malta															
Poland															
Romania					12	13								-70	13
Slovenia	0	8	-1	25	28	24		7	6	-16	0	13	-38	23	10
Slovakia	16	0	-23	72	-7	-41	100	25	-26	-70	0	-1	14	9	8

Source: Alphametrics/Eurostat/TNO

9. Occupations and level of education

Table 9.1 Share of low educated* in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	16	5	4	5	7	7	16	16	24	17	21	22	35	38	35
EU 6	17	4	3	5	10	8	16	14	31	22	23	30	46	41	46
EU9	18	6	6	5	5	12	23	26	27	16	26	16	43	53	43
EU15	17	5	4	5	8	9	18	17	30	20	24	28	45	45	45
NMS	9	1	5	1	1	1	3	9	5	8	8	14	18	22	18
Belgium	12	1	0	7	5	11	6	0	0	28	23	23	26	32	26
Germany	13	3	6	3	7	7	13	16	16	17	15	26	43	25	43
France	19	2	2	8	28	12	19	12	56	22	0	0	48	55	48
Italy	24	7	1	6	8	5	19	16	50	35	57	69	40	48	40
Luxemb.	44	0		0	0		26				0		87		87
Netherl.	20	11	6	1	0	5	31	13	36	28	25	28	47	50	47
Denmark	24	11	22	7	6	28	29	34	24	27	15	0	60	61	60
Ireland	14	5	1	6	4	3	12	13	19	4	14	19	23	24	23
Greece	11		0	0	0	0	11		0	23	15		100	20	100
Spain	23	12	5	0	3	20	13	40	58	19	47	44	59	62	59
Austria	12	3	1	5	8	1	7	11	28	13	20	18	13	42	13
Portugal	55	0	46	9	0	24	37	100	81	63	74		78	93	78
Finland	8	1	7	3	0	2	9	0	13	10	14	0	34	10	34
Sweden	13	5	1	4	2	7	22	31	11	14	34	24	32	32	32
UK	18	7	6	6	7	11	31	33	17	7	37	0	47	59	47
Bulgaria	2	0	0	0	0	0	0		5	0	0	0	11	0	11
Czech Rep.	7	0	3	3	0	2	0	14	0	13	2	18	13	11	13
Estonia	12	0	0	0	0	14	0		48	0	62		19	31	19
Cyprus															
Latvia	5			0					0	0	0	100	0	0	0
Lithuania	7	0	0	0	0	0	0		0	10	0	0	5	20	5
Hungary	20	4	19	0	4	4	9	70	16	20	16	1	34	26	34
Malta															
Poland	5	0	0	0	0	0	0	0	0	0	0	22	5	40	5
Romania	3	0	0	0	0	0	0	0	0	2	0	0	8	25	8
Slovenia	19	0	5	0	0	0	9		0	4	0	100	34	46	34
Slovakia	8	0	9	6	0	0	0	0	13	0	16	0	11	13	11

* low education (ISCED level 1+2) / Source: Alphametrics/Eurostat/TNO

Table 9.2 Change in share of low educated* in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft. trades workers	Assemblers	Other plant and machine oper.	Labourers	Total
EU	-3	0	-3	-3	-2	-3	-21	-7	-4	0	-6	-11	-9	-13	-6
EU 6	-3	-2	-2	0	-2	-2	-25	-2	0	2	-2	-5	-9	-12	-4
EU 9	-2	3	-3	-5	-5	-3	-14	-10	-10	1	-25	-4	0	-17	-8
EU 15	-2	0	-2	-2	-3	-1	-22	-4	-4	3	-4	-4	-5	-13	-5
NMS	-1	1	1	-5	0	-3	-5	-7	0	-4	2	-12	-7	-13	-5
Belgium	1	0	-13	5	11	-8		-100	-26	-5	-31	-74	-11	-7	-16
Germany	-2	2	-1	3	-2	3	-18	-5	3	5	-2	-2	-11	-9	-1
France	-6	-5	-2	8	-5	-5	0	22	-6	-28	-60	6	-2	-35	-5
Italy	-2	-7	-3	-11	-2	-2	-31	-7	5	11	36	-29	-7	-3	-8
Luxemb.			0			-29				0		-13		0	-20
Netherl.	3	6	-6	0	0	1	-4	17	-25	-21	-5	-11	-23	-25	-8
Denmark	11	22	-6	6	3	-6		24	5	15	-100	29	30	-37	2
Ireland	-1	-1	-1	2	-4	-1	-1	6	0	-12	-9	-7	-19	-17	-6
Greece		0	0	0	0	11		0	-1	-10		56	-47	0	-8
Spain	0	5	-3	-21	10	4	15	-42	-30	19	-56	5	5	-5	-5
Austria	3	0	5	-3	-22	0	-89	5	-7	0	-22	-26	3	-8	-4
Portugal	0	46	-34	0	-76	-7	0	-19	-14			0	-7	17	-13
Finland	1	4	0	0	2	-9	0	-12	0	-22	0	21	-23	13	0
Sweden	5	1	-9	-8	-10	11	31	-8	-3	34	24	-7	7		-3
U. K.	-4	1	1	-5	4	-2	-16	-22	-17	2	-40	-11	6	-13	-10
Bulgaria	0	0	0	0	0	0		-2	-5		-29	-16	-7	-12	-5
Czech R.	-3	-3	3	0	2	-6	14	0	8	2	-3	-2	-15	-31	-5
Estonia	0		0		14				0			19	31	-22	5
Cyprus															
Latvia								0	0						5
Lithuania	0		0					0	10			5	-21	-10	-4
Hungary	2	19	-2	-15	-9	4	70	-20	-1	9	1	-9	-4	-24	-5
Malta															
Poland															
Romania					0	0								-17	-1
Slovenia	0	5	0	0	0	-23		0	4	-60	100	-12	-28	45	-4
Slovakia	0	9	6	0	0	0	0	13	0	16	0	-8	2	-24	-1

* low education (ISCED level 1+2) / Source: Alphametrics/Eurostat/TNO

Table 9.3 Share of medium educated* in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	51	28	31	36	48	59	64	63	71	70	62	62	60	57	60
EU 6	50	28	27	36	50	61	68	59	63	68	61	60	50	56	50
EU9	40	26	28	32	43	45	50	62	62	55	48	66	46	39	46
EU15	47	28	29	35	47	58	62	60	64	63	58	61	49	50	49
NMS	71	36	55	44	54	69	75	91	94	89	84	69	80	76	80
Belgium	37	11	20	31	8	44	32	100	100	72	64	77	74	68	74
Germany	54	36	39	32	46	51	77	74	76	71	64	62	54	70	54
France	36	7	5	28	51	53	53	39	40	66	100	100	47	45	47
Italy	63	62	57	69	81	81	65	64	50	63	41	31	57	48	57
Luxemb.	31	100		0	72		74				100		13		13
Netherl.	39	19	19	18	22	40	53	76	59	57	71	72	46	47	46
Denmark	33	10	0	22	28	52	42	66	61	73	85	100	31	19	31
Ireland	41	21	10	19	21	32	59	43	46	34	52	53	56	61	56
Greece	50		55	32	0	33	84		100	60	43		0	80	0
Spain	26	18	14	20	30	22	46	39	22	39	17	53	12	22	12
Austria	67	42	87	59	57	77	83	81	71	87	61	74	83	55	83
Portugal	26	0	8	46	0	45	42	0	19	26	26		22	7	22
Finland	33	15	25	23	31	25	44	100	61	80	52	100	58	90	58
Sweden	54	53	41	43	53	58	70	69	89	84	63	25	53	63	53
UK	38	29	22	29	47	60	41	67	79	56	36	72	49	34	49
Bulgaria	66	7	63	28	21	57	61		91	84	66	100	79	97	79
Czech Rep.	76	50	58	55	49	70	99	86	100	85	89	82	85	89	85
Estonia	52	38	32	14	100	63	46		52	27	38		63	69	63
Cyprus															
Latvia	79			0					100	100	100	0	100	100	100
Lithuania	73	0	0	9	100	0	100		97	90	100	34	93	70	93
Hungary	67	41	54	36	40	81	69	30	84	76	78	99	65	74	65
Malta															
Poland	71	39	37	55	59	69	55	100	97	98	84	57	95	56	95
Romania	62	5	43	12	100	56	86	100	100	97	100	100	90	75	90
Slovenia	63	0	38	62	59	69	72		100	96	100	0	62	54	62
Slovakia	81	67	78	54	61	71	86	100	87	100	84	100	89	87	89

* medium educated (ISCED level 3+4) / Source: Alphametrics/Eurostat/TNO

Table 9.4 Change in share of medium educated* in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft. trades workers	Assemblers	Other plant and machine oper.	Labourers	Total
EU	-4	-4	1	4	5	-3	10	10	7	-1	4	11	9	11	2
EU 6	-8	-7	0	4	-3	-2	10	3	3	0	4	3	7	8	-1
EU 9	-4	-6	4	4	16	-5	11	12	5	-11	16	0	0	16	0
EU 15	-4	-6	3	4	3	-3	12	5	4	-3	5	3	4	10	0
NMS	12	-6	-14	-2	22	-17	5	8	3	-2	-20	12	12	17	4
Belgium	-20	20	1	-60	4	5		100	26	0	31	74	11	-4	1
Germany	2	-3	4	-2	-9	-1	37	3	0	0	4	4	9	7	0
France	-19	-13	-7	30	-5	-7	-29	-20	15	28	60	-9	2	17	-8
Italy	-10	-8	2	15	5	-8	20	14	-7	-8	-36	28	2	-1	3
Luxemb.			-100			29				0		13		0	-5
Netherl.	-8	-9	-23	-22	-7	-3	3	-12	24	19	5	11	21	22	-1
Denmark	-10	-74	-4	-47	2	-22		-39	-5	-15	100	-14	-50	30	-11
Ireland	-5	-17	-5	-21	-4	-8	-1	-11	-15	-2	-19	-2	10	8	-6
Greece		55	-11	-29	-67	32		33	20	-12		-56	47	0	5
Spain	7	2	14	1	-3	10	-11	22	24	17	53	-22	6	1	6
Austria	3	7	-1	20	36	-8	81	3	7	-16	22	26	-5	6	1
Portugal	-35	-92	13	-100	45	1	0	19	4			0	7	-17	3
Finland	-1	-23	5	-12	-4	9	0	-4	-6	13	0	-20	23	-5	-10
Sweden	16	-1	11	17	3	-8	-31	8	28	-37	-75	1	1		5
U. K.	-4	-5	1	11	35	-9	16	31	7	-22	24	12	-6	19	0
Bulgaria	-12	63	-5	21	-3	-39		-2	-11		29	7	4	12	5
Czech R.	31	-13	-18	-3	0	11	-14	4	-7	-11	3	0	15	31	-1
Estonia	38		14		-37				-73			-1	69	50	1
Cyprus															
Latvia								0	0						-21
Lithuania	0		9					6	38			-7	11	10	13
Hungary	-9	-23	-21	-19	6	-23	-70	20	0	-11	-1	8	4	21	-1
Malta															
Poland															
Romania					41	-14								-2	17
Slovenia	-21	38	6	-41	-31	3		0	-4	60	-100	8	28	-45	3
Slovakia	2	0	-31	61	-23	-14	0	-13	0	-16	0	8	-2	24	-4

* medium educated (ISCED level 3+4) / Source: Alphametrics/Eurostat/TNO

Table 9.5 Share of high educated* in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft. trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	33	67	64	59	45	33	20	21	5	12	17	7	5	4	5
EU 6	33	68	69	59	40	31	16	27	6	10	16	10	4	4	4
EU9	42	67	66	63	52	43	27	13	11	29	26	18	11	8	11
EU15	36	67	67	60	45	34	19	23	7	17	18	11	7	5	7
NMS	20	63	40	54	45	30	22	0	1	3	9	18	2	2	2
Belgium	51	88	80	62	88	45	62	0	0	0	13	0	0	0	0
Germany	33	61	56	65	47	42	10	10	8	12	20	13	3	5	3
France	45	91	93	64	22	36	28	48	4	12	0	0	5	0	5
Italy	14	31	42	25	11	14	15	20	0	2	2	0	3	4	3
Luxemb.	25	0		100	28		0				0		0		0
Netherl.	40	70	76	82	78	55	16	11	5	15	4	0	7	3	7
Denmark	43	79	78	71	66	20	29	0	15	0	0	0	9	19	9
Ireland	45	74	88	75	75	65	29	45	34	61	34	28	21	14	21
Greece	39		45	68	100	67	5		0	18	42		0	0	0
Spain	51	70	80	80	67	58	40	21	19	42	36	3	29	16	29
Austria	21	55	12	36	35	22	10	8	1	0	19	8	3	2	3
Portugal	19	100	46	45	100	31	22	0	0	10	0		0	0	0
Finland	59	84	69	75	69	73	47	0	26	10	34	0	8	0	8
Sweden	33	42	58	53	45	36	8	0	0	1	4	52	15	5	15
UK	44	64	72	65	46	29	28	0	5	37	27	28	4	7	4
Bulgaria	33	93	37	72	79	43	39		4	16	34	0	10	3	10
Czech Rep.	17	50	38	42	51	28	1	0	0	2	8	0	3	0	3
Estonia	36	62	68	86	0	23	54		0	73	0		18	0	18
Cyprus															
Latvia	16			100					0	0	0	0	0	0	0
Lithuania	20	100	100	91	0	100	0		3	0	0	66	1	10	1
Hungary	14	54	27	64	56	16	21	0	0	4	6	0	2	0	2
Malta															
Poland	24	61	63	45	41	31	45	0	3	2	16	21	0	4	0
Romania	35	95	57	88	0	44	14	0	0	1	0	0	2	0	2
Slovenia	19	100	57	38	41	31	19		0	0	0	0	4	0	4
Slovakia	11	33	13	39	39	29	14	0	0	0	0	0	0	0	0

* high educated (ISCED level 5+6) / Source: Alphametrics/Eurostat/TNO

Table 9.6 Change in share of high educated* in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers	Total
EU	6	4	1	-1	-2	6	10	-2	-3	1	1	0	0	2	4
EU 6	10	8	2	-4	5	4	15	-1	-3	-2	-2	1	2	4	6
EU 9	6	3	0	1	-10	8	3	-2	5	10	10	4	0	1	8
EU 15	7	5	0	-2	0	4	10	-2	0	0	-1	1	1	3	5
NMS	-11	5	13	7	-22	20	0	-1	-3	6	18	-1	-5	-4	1
Belgium	19	-20	12	56	-14	3		0	0	5	0	0	0	11	15
Germany	0	1	-2	-1	11	-1	-19	2	-3	-5	-2	-2	2	2	1
France	25	18	9	-39	10	12	29	-2	-8	0	0	3	0	18	13
Italy	12	15	1	-4	-3	10	12	-7	2	-3	0	1	4	3	4
Luxemb.			100			0				0		0		0	25
Netherl.	5	3	29	22	7	1	2	-5	2	2	0	0	3	2	9
Denmark	0	53	10	41	-5	29		15	0	0	0	-16	19	7	9
Ireland	6	19	6	19	8	9	1	5	14	14	28	9	9	9	12
Greece		-55	11	29	67	-43		-33	-19	22		0	0	0	3
Spain	-7	-7	-12	20	-7	-14	-4	19	6	-36	3	17	-11	3	-1
Austria	-5	-7	-4	-16	-14	8	8	-9	0	16	0	1	2	2	3
Portugal	35	46	21	100	31	5	0	0	10			0	0	0	11
Finland	0	19	-5	12	2	1	0	16	5	10	0	-1	0	-8	10
Sweden	-21	0	-2	-8	8	-2	0	0	-26	4	52	6	-8		-2
U. K.	8	4	-2	-6	-39	11	0	-9	10	19	16	0	0	-6	11
Bulgaria	12	-63	5	-21	3	39		4	16		0	10	3	0	0
Czech R.	-27	16	15	3	-2	-5	0	-4	-1	8	0	2	0	0	6
Estonia	-38		-14		23				73			-18	-100	-28	-7
Cyprus															
Latvia								0	0						16
Lithuania	0		-9					-6	-47			1	10	0	-9
Hungary	7	4	23	34	3	19	0	0	1	2	0	1	0	3	6
Malta															
Poland															
Romania					-41	14								19	-16
Slovenia	21	-43	-6	41	31	19		0	0	0	0	4	0	0	1
Slovakia	-2	-8	24	-61	23	14	0	0	0	0	0	0	0	0	5

* high educated (ISCED level 5+6) / Source: Alphametrics/Eurostat/TNO

10. Occupations and age

Table 10.1 Share of younger workers (15-39 years) in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft. trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	53	39	64	52	54	52	56	48	49	56	53	47	56	53	56
EU 6	50	39	60	49	46	50	54	41	53	53	55	45	48	51	48
EU9	54	39	67	56	63	53	59	74	54	57	51	53	56	50	56
EU15	51	38	62	51	54	51	55	48	53	55	54	47	51	51	51
NMS	58	40	77	62	57	58	60	50	37	61	47	55	64	58	64
Belgium	49	43	61	57	65	35	54	0	16	40	32	82	60	38	60
Germany	47	36	53	45	50	42	50	35	51	59	53	44	43	43	43
France	50	42	65	49	35	62	52	48	51	44	72	14	42	48	42
Italy	57	37	66	62	39	49	64	25	64	52	64	54	66	62	66
Luxemb.	52	0		84	0		74				100		34		34
Netherl.	49	48	53	39	57	54	50	55	51	41	51	59	46	50	46
Denmark	41	19	46	47	54	64	46	86	16	0	52	19	36	15	36
Ireland	72	61	84	73	79	70	70	76	68	78	81	74	73	70	73
Greece	58		86	83	0	100	35		100	79	50		0	28	0
Spain	59	25	53	69	53	58	73	70	47	69	40	95	61	53	61
Austria	59	43	86	51	79	56	60	80	56	72	55	56	57	54	57
Portugal	70	44	100	70	100	57	63	100	66	57	41		86	83	86
Finland	61	47	70	68	67	59	47	100	40	66	56	62	64	80	64
Sweden	49	32	69	53	53	34	50	0	73	41	54	9	48	37	48
UK	47	37	63	45	64	49	56	79	46	42	39	49	44	45	44
Bulgaria	42	8	0	30	86	54	66		19	42	18	0	50	46	50
Czech Rep.	59	50	72	78	49	54	65	81	50	56	50	51	56	56	56
Estonia	57	50	68	0	100	30	81		66	73	100		68	69	68
Cyprus															
Latvia	35			100					0	0	100	0	0	42	0
Lithuania	45	0	100	13	100	100	100		13	42	0	66	46	65	46
Hungary	63	69	71	66	81	71	68	70	45	59	43	50	69	54	69
Malta															
Poland	59	19	97	59	29	60	46	17	39	70	47	60	77	82	77
Romania	51	39	85	55	100	56	58	44	23	65	0	66	48	41	48
Slovenia	55	0	70	54	72	19	17		57	69	30	100	65	53	65
Slovakia	71	64	85	72	72	57	73	0	51	97	45	0	71	66	71

Source: Alphametrics/Eurostat/TNO

Table 10.2 Change in share of younger workers (15-39 years) in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handcraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers	Total
EU	-7	-1	-6	-6	-5	-4	-6	-2	-7	-8	-7	-8	-4	-8	-6
EU 6	-1	2	-6	-9	-5	-5	-9	4	-7	-7	-12	-10	1	-11	-5
EU 9	-14	-10	-6	-3	-11	-3	16	1	-10	-13	15	-11	-15	1	-9
EU 15	-9	-3	-7	-6	-6	-5	-3	3	-8	-8	-10	-11	-5	-6	-7
NMS	9	1	-1	-2	1	1	-29	-19	-1	-7	11	-4	1	-10	-1
Belgium	31	0	-7	24	-57	-21		-17	-16	-61	-18	60	-20	-21	-12
Germany	-4	-5	-6	-5	-5	-8	-10	-1	-4	-4	-18	-4	2	-9	-6
France	-4	8	-7	-36	11	-4	-11	6	-11	-9	-27	-16	3	-29	-5
Italy	6	-3	-10	-8	-16	0	-29	16	-4	-7	32	8	-6	-3	-3
Luxemb.			-16			19				0		-66		100	-31
Netherl.	5	15	-23	14	-15	4	42	3	-23	-13	21	-30	-9	0	-6
Denmark	-16	-7	-14	7	-16	-28		16	-51	-48	-81	-3	-70	-23	-15
Ireland	-7	-1	-13	-8	3	-14	-4	-5	-10	9	1	-10	-6	-10	-9
Greece		-14	40	-59	100	-65		33	-11	-14		-86	-47	-72	-11
Spain	-11	-20	5	-19	-11	11	45	30	14	-50	95	-14	-9	14	-5
Austria	-17	4	-10	-1	-2	2	36	0	3	-12	2	-18	-21	13	-6
Portugal	10	100	10	0	-22	10	100	14	-17			-1	26	13	3
Finland	-19	-27	-9	3	-15	-8	0	-30	-12	-16	-38	-6	-2	-6	-13
Sweden	-5	-24	5	4	10	18	-100	73	-30	18	9	-19	-17		-3
U. K.	-17	-8	-16	-8	-10	-9	27	-9	-24	-20	23	-15	-18	2	-13
Bulgaria	-21	-100	-4	86	25	27		-30	14		0	3	8	24	7
Czech R.	5	7	16	-34	-12	2	-19	-6	-5	-5	-8	-5	3	-7	0
Estonia	14		-100		-70				-27			4	69	-73	-17
Cyprus															
Latvia								-100	-39						-34
Lithuania	0		13					-42	-14			-54	-35	15	-10
Hungary	18	-17	13	45	7	12	-20	-18	-6	-20	20	-3	-9	7	-1
Malta															
Poland															
Romania					10	-7								22	-3
Slovenia	-8	-30	-36	16	-53	-23		-5	-18	15	38	14	20	23	-3
Slovakia	47	3	-8	-28	-32	-3	0	12	39	45	-48	-13	-2	15	2

Source: Alphametrics/Eurostat/TNO

Table 10.3 Share of workers (40-49 years) in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	27	36	26	28	27	29	22	29	24	27	26	24	25	29	25
EU 6	29	34	30	30	32	30	24	35	22	30	25	33	30	32	30
EU9	26	37	26	25	21	29	19	7	24	24	27	22	21	29	21
EU15	28	36	29	28	27	30	22	29	23	28	26	31	26	31	26
NMS	23	32	13	22	22	23	20	28	28	24	31	13	22	26	22
Belgium	31	34	23	30	27	25	28	100	0	60	31	18	18	46	18
Germany	30	35	34	30	31	32	28	34	26	25	26	32	31	33	31
France	29	34	25	31	30	22	15	37	12	43	28	86	35	38	35
Italy	27	35	30	23	41	35	20	30	21	30	23	20	18	26	18
Luxemb.	26	100		16	0		26				0		37		37
Netherl.	32	29	35	36	29	28	28	34	36	39	26	34	25	38	25
Denmark	29	42	34	33	23	36	18	0	24	0	9	27	32	47	32
Ireland	20	27	14	20	15	23	19	10	21	20	6	21	18	23	18
Greece	27		14	11	53	0	45		0	21	31		100	20	100
Spain	24	33	39	22	20	29	13	7	24	19	32	5	14	21	14
Austria	26	39	11	34	17	24	22	0	37	19	31	18	22	22	22
Portugal	21	48	0	25	0	36	20	0	6	32	37		12	6	12
Finland	26	40	25	22	22	28	40	0	36	14	27	18	15	5	15
Sweden	27	47	25	27	26	30	20	31	19	30	29	40	24	34	24
UK	28	37	27	24	20	29	18	10	25	29	29	29	25	36	25
Bulgaria	36	71	41	60	14	26	11		27	38	82	0	36	34	36
Czech Rep.	21	33	17	14	20	26	24	0	18	18	21	19	25	22	25
Estonia	20	16	32	60	0	23	0		13	27	0		15	0	15
Cyprus															
Latvia	48			0					50	100	0	0	100	58	100
Lithuania	27	0	0	71	0	0	0		55	34	0	0	20	18	20
Hungary	19	19	7	12	13	18	12	0	21	20	29	10	19	29	19
Malta															
Poland	22	27	3	20	37	21	18	83	26	28	47	17	15	18	15
Romania	30	59	15	30	0	22	36	0	46	16	0	34	29	34	29
Slovenia	32	67	17	27	16	29	73		34	27	45	0	29	31	29
Slovakia	18	17	13	11	28	23	16	100	7	3	31	36	23	30	23

Source: Alphametrics/Eurostat/TNO

Table 10.4 Change in share of workers (40-49 years) in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers	Total
EU	7	4	1	2	3	-2	9	-4	2	2	1	1	3	5	2
EU 6	6	4	1	3	4	0	13	-10	2	1	7	2	4	9	2
EU 9	10	9	2	2	8	-3	-8	5	4	5	-17	1	10	-3	4
EU 15	8	6	2	2	4	-1	7	-5	3	1	5	2	7	4	3
NMS	-6	-5	-2	-1	-2	-10	11	1	-4	4	-31	0	-11	4	-3
Belgium	-36	4	8	-2	17	16		-67	16	24	18	-82	46	-3	2
Germany	6	3	-1	0	-4	2	-2	2	-2	-4	9	-4	1	14	1
France	11	0	3	16	-4	-10	12	-29	17	28	50	6	6	3	2
Italy	10	22	1	2	18	2	15	-16	-6	6	-46	-7	7	9	5
Luxemb.			16			26				0		37		-100	18
Netherl.	4	-10	15	-4	14	-8	-16	5	13	6	17	9	11	-1	5
Denmark	21	8	1	-3	16	-8		24	-24	9	27	-29	31	-8	0
Ireland	0	4	9	3	-7	6	3	7	11	-11	-5	5	12	10	6
Greece		14	11	53	0	45		0	11	6		86	-4	72	12
Spain	3	26	7	1	7	-9	-67	-19	-11	22	5	-11	-16	0	1
Austria	16	2	4	-3	9	6	-56	6	-4	9	18	3	0	-8	4
Portugal	-18	-100	5	0	16	-27	-100	-25	5			-2	-25	-7	-6
Finland	11	21	5	1	17	22	0	14	0	27	18	-8	-12	-13	8
Sweden	23	18	-9	-2	15	12	31	19	1	-9	-60	9	6		3
U. K.	9	3	3	5	1	-6	10	5	12	5	-18	4	23	-12	6
Bulgaria	21	41	11	-86	-35	-31		-4	-23		-71	-17	-21	-19	-14
Czech R.	2	-10	-12	20	11	3	0	-4	-10	4	-22	-1	-14	-3	-3
Estonia	16		60		23				27			15	-100	54	12
Cyprus															
Latvia								50	100						48
Lithuania	-60		71					36	-10			20	18	0	6
Hungary	-7	-6	-16	-23	-2	-5	-9	-3	-7	6	-18	-3	0	12	-4
Malta															
Poland															
Romania					-7	0								-22	0
Slovenia	-4	17	19	-13	1	31		-4	14	-15	-38	-10	-37	55	-2
Slovakia	-40	-5	-10	28	12	-8	0	-43	-19	-69	-16	10	3	-22	-7

Source: Alphametrics/Eurostat/TNO

Table 10.5 Share of older workers (50+years) in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2006 (in %)

	Total	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft, trades workers	Assemblers	Other plant and machine oper.	Labourers
EU	20	26	9	20	20	19	22	22	27	17	20	24	19	18	19
EU 6	20	27	10	21	22	20	23	24	25	16	20	22	22	17	22
EU9	20	24	8	19	16	18	23	18	22	19	22	25	23	20	23
EU15	20	26	9	21	19	19	22	23	24	17	20	23	22	18	22
NMS	19	28	9	16	21	19	20	22	34	15	23	32	14	16	14
Belgium	20	23	16	13	8	40	18	0	84	0	37	0	22	16	22
Germany	23	29	13	25	19	26	22	31	23	17	21	24	26	24	26
France	20	24	9	20	35	16	33	15	37	13	0	0	23	14	23
Italy	16	28	4	15	20	16	16	45	15	18	13	26	16	13	16
Luxemb.	22	0	0	0	100	0	0	0	0	0	0	0	28	0	28
Netherl.	19	23	12	25	14	19	22	11	13	20	23	7	29	13	29
Denmark	30	39	21	20	23	0	36	14	59	100	39	53	32	38	32
Ireland	9	12	1	7	6	7	11	14	11	2	13	4	10	7	10
Greece	14	0	0	5	47	0	20	0	0	0	19	0	0	51	0
Spain	17	41	8	9	26	13	13	22	29	12	27	0	25	25	25
Austria	15	18	3	15	4	20	19	20	8	9	14	26	20	24	20
Portugal	9	8	0	5	0	6	17	0	28	12	22	0	3	11	3
Finland	13	13	6	10	12	13	13	0	24	20	17	20	21	14	21
Sweden	24	21	6	20	22	36	29	69	8	29	17	50	28	29	28
UK	25	26	10	31	15	22	27	11	30	29	32	22	31	19	31
Bulgaria	22	21	59	10	0	20	23	0	54	20	0	100	14	20	14
Czech Rep.	19	17	11	8	31	20	11	19	32	26	29	30	19	23	19
Estonia	22	33	0	40	0	46	19	0	21	0	0	0	17	31	17
Cyprus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latvia	17	0	0	0	0	0	0	0	50	0	0	100	0	0	0
Lithuania	28	100	0	16	0	0	0	0	32	24	100	34	34	17	34
Hungary	18	12	22	22	6	11	19	30	34	21	28	40	13	17	13
Malta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poland	19	54	0	21	34	19	36	0	35	1	6	22	8	0	8
Romania	18	3	0	16	0	22	7	56	31	19	100	0	23	25	23
Slovenia	14	33	13	19	12	52	10	0	9	4	25	0	5	17	5
Slovakia	11	19	2	18	0	19	11	0	42	0	24	64	5	4	5

Source: Alphametrics/Eurostat/TNO

Table 10.6 Change in share of olders workers (50+ years) in employment by occupation in electronic and computing equipment industries (NACE 30+32+33), 2000-2006 (in %)

	Managers	Computing professionals	Engineers	Business professionals	Other professionals	Office clerks and secretaries	Service workers	Metal machinery workers, blacksmiths	Electric equipment mech., fitters	Precision, handicraft, craft printing	Other craft. trades workers	Assemblers	Other plant and machine oper.	Labourers	Total
EU	0	-3	5	4	1	6	-3	6	5	6	7	6	1	3	4
EU 6	-6	-5	5	6	1	5	-4	6	5	6	5	8	-5	2	3
EU 9	5	1	4	1	4	6	-8	-6	6	8	2	9	4	3	4
EU 15	2	-3	5	4	2	6	-4	2	5	7	5	8	-2	1	4
NMS	-3	5	3	3	0	10	18	17	4	3	19	4	11	6	5
Belgium	5	-4	-1	-22	40	5		84	0	37	0	22	-27	24	10
Germany	-1	2	6	5	9	7	12	0	6	7	8	7	-4	-5	5
France	-6	-8	4	19	-7	15	0	23	-6	-19	-23	10	-9	25	3
Italy	-16	-19	9	6	-3	-2	14	-1	10	1	14	-1	-1	-6	-1
Luxemb.			0			-45				0		28		0	13
Netherl.	-10	-5	8	-10	1	4	-26	-8	10	7	-37	22	-1	1	0
Denmark	-5	-1	14	-4	0	36		-41	76	39	53	32	38	30	15
Ireland	7	-3	4	4	4	8	1	-2	-2	2	4	5	-6	0	3
Greece		0	-51	5	-100	20		-33	0	8		0	51	0	-1
Spain	8	-6	-12	18	4	-3	22	-12	-3	27	-100	25	24	-14	4
Austria	1	-6	6	4	-7	-8	20	-6	1	3	-20	15	21	-5	2
Portugal	8	0	-14	0	6	17	0	11	12			3	-1	-6	3
Finland	8	6	4	-4	-2	-14	0	16	11	-11	20	14	14	19	5
Sweden	-18	6	4	-2	-24	-30	69	-92	29	-9	50	10	11		0
U. K.	7	5	13	3	9	15	-37	4	12	15	-5	11	-4	10	7
Bulgaria	0	59	-7	0	10	4		34	9		71	14	13	-5	7
Czech R.	-7	3	-4	14	0	-5	19	10	15	1	30	6	11	10	3
Estonia	-31		40		46				0			-19	31	19	5
Cyprus															
Latvia								50	-61						-14
Lithuania	60		-84					6	24			34	17	-15	4
Hungary	-11	22	3	-23	-5	-8	30	22	13	14	-1	6	10	-19	6
Malta															
Poland															
Romania					-4	7								0	3
Slovenia	11	13	16	-3	52	-8		9	4	0	0	-3	17	-78	5
Slovakia	-8	2	18	0	19	11	0	31	-20	24	64	3	-1	7	5

Source: Alphametrics/Eurostat/TNO

11. EU and competitors

Table 11.1 TRIAD and BRICs : Employment, share of sub- sector in manufacturing employment, sector employment and wages per employee (in US\$), 1995 and 2005

		ISIC Rev 3 code	Share in total manufacturing employment (in %)		Employment		Wages per employee (in US\$)	
ISIC Category			1995	2005	1995	2005	1995	2005
EU-15 ¹	Electric motors, generators and transformers	3110	0.8	0.8	191 559	203 912	30 526	39 016
	Electricity distribution & control apparatus	3120	2.0	1.9	511 335	469 902	38 174	50 084
	Insulated wire and cable	3130	0.4	0.4	108 410	95 547	29 514	36 651
	Other electrical equipment n.e.c.	3190	1.1	1.2	283 183	290 932	26 639	38 449
	Electronic valves, tubes, etc.	3210	0.8	0.9	211 173	230 782	29 082	42 214
	Office, accounting and computing machinery	3000	0.8	0.5	203 289	118 970	43 780	47 347
	TV/radio transmitters; line comm. apparatus	3220	1.1	0.9	286 452	233 919	38 718	53 192
	TV and radio receivers and associated goods	3230	0.5	0.4	136 405	93 996	33 126	40 432
	Medical, measuring, testing appliances, etc.	331	2.2	2.6	568 253	657 562	31 939	40 425
	Optical instruments & photographic equipment	3320	0.4	0.4	95 245	96 769	31 608	41 015
	Watches and clocks	3330	0.5	0.4	134 201	111 280	3 132	3 586
	Total ICT		10.7	10.3	2 729 505	2 603 571	32 365	41 768
	Manufacturing Total	D	100	100	25 498 419	25 283 696	29 118	37 030
USA ²	Electric motors, generators and transformers	3110	0.7	0.6	120 067	77 016	28 720	36 330
	Electricity distribution & control apparatus	3120	1.1	1.1	190 739	144 098	33 099	42 124
	Insulated wire and cable	3130	0.3	0.3	54 987	35 255	34 490	40 760
	Other electrical equipment n.e.c.	3190	1.3	1.0	218 257	138 419	34 754	44 698
	Electronic valves, tubes, etc.	3210	3.2	2.4	530 725	322 411	38 665	51 493
	Office, accounting and computing machinery	3000	1.5	0.9	254 893	125 504	44 534	61 624
	TV/radio transmitters; line comm. apparatus	3220	1.6	0.9	270 675	124 296	47 844	60 452
	TV and radio receivers and associated goods	3230	0.2	0.2	30 306	21 059	30 293	43 259
	Medical, measuring, testing appliances, etc.	331	4.4	5.0	744 353	678 110	42 859	55 966
	Optical instruments & photographic equipment	3320	0.4	0.3	69 768	44 293	38 100	46 012
	Watches and clocks	3330	0.0	N.A.	6 333	N.A.	28 184	N.A.
	Total ICT		14.8	12.6	2 484 770	1 710 461	40 062	52 174
	Manufacturing Total	D	100	100	16 805 127	13 571 249	33 907	42 411

Japan	Electric motors, generators and transformers	3110	1.1	0.9	107 679	64 960	39 592	33 152
	Electricity distribution & control apparatus	3120	1.7	1.5	176 373	114 678	38 096	33 851
	Insulated wire and cable	3130	0.5	0.4	45 721	26 702	50 924	42 922
	Other electrical equipment n.e.c.	3190	1.6	1.5	159 509	112 281	34 992	34 162
	Electronic valves, tubes, etc.	3210	3.5	3.4	350 934	255 149	46 927	45 426
	Office, accounting and computing machinery	3000	2.2	1.7	219 012	125 631	44 563	44 216
	TV/radio transmitters; line comm. apparatus	3220	0.9	0.8	89 873	63 798	52 523	50 127
	TV and radio receivers and associated goods	3230	4.2	3.7	427 289	281 243	36 128	39 108
	Medical, measuring, testing appliances, etc.	331	1.9	2.0	190 154	154 585	39 696	36 592
	Optical instruments & photographic equipment	3320	0.6	0.6	62 427	42 467	34 231	31 123
	Watches and clocks	3330	0.3	0.1	27 172	9 580	37 953	36 662
	Total ICT		18.2	16.5	1 856 143	1 251 074	40 942	39 717
	Manufacturing Total	D	100	100	10185 500	7 565 219	33 835	30 682
BRICs³								
Brazil	Electric motors, generators and transformers	3110	0.6	0.7	27 957	42 569	12 931	8 732
	Electricity distribution & control apparatus	3120	0.6	0.5	28 176	28 903	12 753	10 545
	Insulated wire and cable	3130	0.5	0.3	22 419	20 360	10 175	7 810
	Other electrical equipment n.e.c.	3190	1.3	1.2	15 862	11 211	99 444	99 852
	Electronic valves, tubes, etc.	3210	3.8	4.5	47 257	41 786	134 661	163 773
	Office, accounting and computing machinery	3000	0.3	0.5	14 919	27 831	13 149	10 645
	TV/radio transmitters; line comm. apparatus	3220	0.5	0.5	22 180	31 587	17 909	15 907
	TV and radio receivers and associated goods	3230	0.8	0.4	38 781	24 820	11 870	8 230
	Medical, measuring, testing appliances, etc.	331	0.8	0.8	37 091	50 173	10 131	8 196
	Optical instruments & photographic equipment	3320	0.2	0.2	8 700	9 029	6 881	4 898
	Watches and clocks	3330	0.1	0.1	3 413	2 963	9 964	7 568
	Total ICT		9.2	9.5	266 755	291 232	39 037	35 296
	Manufacturing Total	D	100	100	4 939 816	6 222 477	9 202	6 599

Russia	Electric motors, generators and transformers	3110	0.7	1.0	73496	99243	1395	3815
	Electricity distribution & control apparatus	3120	0.4	0.9	41674	88762	1049	3619
	Insulated wire and cable	3130	0.3	0.4	35039	39567	1765	3852
	Other electrical equipment n.e.c.	3190	0.7	1.1	74590	107788	1200	3472
	Office, accounting and computing machinery	3000	0.2	0.2	17598	18610	1031	3240
	Medical, measuring, testing appliances, etc.	331	2.2	2.7	229640	253027	1150	3602
	Optical instruments & photographic equipment	3320	0.3	0.3	30573	28069	1106	3134
	Watches and clocks	3330	0.1	0.1	14777	6349	811	2238
	Total ICT		4.9	6.8	517387	641415	1209	3586
	Manufacturing Total	D	100	100	10670571	9511631	1411	3573
India	Electric motors, generators and transformers	3110	1.0	0.9	79007	72270	2115	2844
	Electricity distribution & control apparatus	3120	0.7	0.7	51726	56998	1965	2515
	Insulated wire and cable	3130	0.6	0.4	47975	33161	1582	1818
	Other electrical equipment n.e.c.	3190	0.2	0.4	18842	31161	1205	1630
	Electronic valves, tubes, etc.	3210	0.7	0.6	51881	49147	1653	2559
	Office, accounting and computing machinery	3000	0.2	0.3	13193	25850	1951	3164
	TV/radio transmitters; line comm. apparatus	3220	0.6	0.3	46734	23190	2019	2965
	TV and radio receivers and associated goods	3230	0.5	0.4	42943	29676	1316	3061
	Medical, measuring, testing appliances, etc.	331	0.7	0.6	52177	44625	1403	2640
	Optical instruments & photographic equipment	3320	0.0	0.1	3411	6923	1087	1928
	Watches and clocks	3330	0.3	0.1	20738	10437	1524	1846
	Total ICT		5.4	4.7	428627	383438	1722	2549
	Manufacturing Total	D	100	100	7939537	8180493	1203	1615
China ⁴	Machinery electric	383	5.4	13.6	3114000	8069000	N.A.	N.A.
	Professional & scientific equipm.	385	1.5	1.5	860000	887000	N.A.	N.A.
	Total ICT		6.8	15.1	3974000	8956000	N.A.	N.A.
	Manufacturing Total	300	100	100	58255000	59353000	N.A.	N.A.

Source: <TNO>, based on data of UNIDO (ISIC Rev. 3)

¹ EU-15: 1995-2004 (Except France: 1996-2000; Germany: 1998-2004; Greece: 1995-1998; Luxembourg: 1995-2003; Portugal: 1996-2004), Data for Europe (EU-15) is composed from data individual EU-15 countries ;

² USA: 1997-2004; Japan: 1995-2004

³ Brazil: 1996-2005, Russia: 2001-2005; India: 1998-2004

⁴ Data for China based on ISIC Rev 2

Table 11.2 TRIAD and BRICs : Value added, sector share of sub-sector in manufacturing value added and value added per employee (in US\$), 1995 and 2005

		ISIC	Share of sector in total manufacturing value added (in %)		Value added (in million US\$)		Value added per employee (in US\$)	
ISIC Category			1995	2005	1995	2005	1995	2005
EU-15 ¹	Electric motors, generators and transformers	3110	0.7	0.7	10 099	13 078	52 720	64 136
	Electricity distribution & control apparatus	3120	2.0	2.0	29 425	36 520	57 545	77 718
	Insulated wire and cable	3130	0.4	0.3	6 108	5 096	56 342	53 335
	Other electrical equipment n.e.c.	3190	1.0	1.1	13 999	20 197	49 434	69 422
	Electronic valves, tubes, etc.	3210	0.9	1.1	12 393	19 858	58 686	86 047
	Office, accounting and computing machinery	3000	1.3	0.7	19 425	13 112	95 554	110 213
	TV/radio transmitters; line comm. apparatus	3220	1.3	1.2	19 485	23 110	68 022	98 795
	TV and radio receivers and associated goods	3230	0.5	0.3	6 750	6 108	49 485	64 981
	Medical, measuring, testing appliances, etc.	331	2.1	2.6	31 054	48 758	54 648	74 150
	Optical instruments & photographic equipment	3320	0.4	3.5	5 071	63 914	53 242	660 480
	Watches and clocks	3330	0.0	0.0	695	663	5 179	5 958
	Total ICT		10.7	13.5	154 504	250 414	56 605	96 181
	Manufacturing Total	D	100	100	25498 419	25283 696	29 118	37 030
USA ²	Electric motors, generators and transformers	3110	0.5	0.4	9 626	7 883	80 169	102 355
	Electricity distribution & control apparatus	3120	1.0	0.9	17 894	18 632	93 812	129 301
	Insulated wire and cable	3130	0.3	0.2	6 230	4 716	113 294	133 768
	Other electrical equipment n.e.c.	3190	1.1	0.9	19 584	19 157	89 729	138 399
	Electronic valves, tubes, etc.	3210	4.9	3.7	89 630	74 760	168 883	231 878
	Office, accounting and computing machinery	3000	2.5	1.6	45 919	33 586	180 150	267 609
	TV/radio transmitters; line comm. apparatus	3220	2.5	1.4	45 539	27 678	168 243	222 678
	TV and radio receivers and associated goods	3230	0.1	0.2	2 373	3 414	78 295	162 116
	Medical, measuring, testing appliances, etc.	331	4.7	5.4	85 960	110 653	115 483	163 179
	Optical instruments & photographic equipment	3320	0.5	0.3	8 845	6 158	126 782	139 029
	Watches and clocks	3330	0.0	N.A.	551	N.A.	87 001	N.A.
	Total ICT		18.2	15.0	331 600	306 637	133 453	179 272
	Manufacturing Total	D	100	100	16805 127	13571 249	33 907	42 411

Japan	Electric motors, generators and transformers	3110	0.8	0.7	9 558	6 137	88 762	94 476
	Electricity distribution & control apparatus	3120	1.5	1.1	18 956	9 807	107 477	85 514
	Insulated wire and cable	3130	0.4	0.3	5 539	3 189	121 149	119 420
	Other electrical equipment n.e.c.	3190	1.3	1.2	15 862	11 211	99 444	99 852
	Electronic valves, tubes, etc.	3210	3.8	4.5	47 257	41 786	134 661	163 773
	Office, accounting and computing machinery	3000	2.4	1.6	29 290	15 260	133 737	121 465
	TV/radio transmitters; line comm. apparatus	3220	1.3	1.1	15 565	10 574	173 184	165 737
	TV and radio receivers and associated goods	3230	3.1	4.0	39 092	37 147	91 489	132 080
	Medical, measuring, testing appliances, etc.	331	1.8	2.1	22 007	19 401	115 734	125 501
	Optical instruments & photographic equipment	3320	0.4	0.4	4 401	3 595	70 506	84 664
	Watches and clocks	3330	0.1	0.1	1 765	573	64 951	59 817
	Total ICT		16.8	16.9	209 292	158 680	112 756	126 835
	Manufacturing Total	D	100	100	10185 500	7565 219	33 835	30 682
BRICs³								
Brazil	Electric motors, generators and transformers	3110	0.5	0.6	781	1 157	27 930	27 184
	Insulated wire and cable	3130	0.5	0.3	795	659	35 458	32 363
	Other electrical equipment n.e.c.	3190	0.7	0.6	1 130	1 217	30 208	22 936
	Electronic valves, tubes, etc.	3210	0.6	0.3	885	567	39 593	22 700
	Office, accounting and computing machinery	3000	0.6	0.6	945	1 129	63 371	40 568
	TV/radio transmitters; line comm. apparatus	3220	1.4	1.3	2 166	2 546	97 668	80 587
	TV and radio receivers and associated goods	3230	1.5	0.7	2 354	1 255	60 691	50 579
	Medical, measuring, testing appliances, etc.	331	0.6	0.7	989	1 329	26 675	26 488
	Optical instruments & photographic equipment	3320	0.1	0.1	150	176	17 261	19 537
	Watches and clocks	3330	0.1	0.1	196	105	57 296	35 476
	Total ICT		6.7	5.3	10 391	10 140	38 953	34 818
	Manufacturing Total	D	100	100	4939 816	6222 477	9 202	6 599

Russian Federation	Electric motors, generators and transformers	3110	1.4	1.3	561	1 577	7 639	15 888
	Insulated wire and cable	3130	0.6	0.3	224	330	6 388	8 340
	Other electrical equipment n.e.c.	3190	0.6	0.7	234	835	3 132	7 744
	Office, accounting and computing machinery	3000	0.5	0.2	191	267	10 873	14 342
	Medical, measuring, testing appliances, etc.	331	1.3	1.5	513	1 946	2 234	7 692
	Optical instruments & photographic equipment	3320	0.2	0.2	64	205	2 091	7 304
	Watches and clocks	3330	0.1	N.A.	20	N.A.	1 369	N.A.
	Total ICT			4.5	4.1	1 787	5 160	3 454
	Manufacturing Total	D	100	100	10670 571	9511 631	1 411	3 573
India	Electric motors, generators and transformers	3110	1.3	1.1	492	740	6 223	10 238
	Electricity distribution & control apparatus	3120	0.7	0.7	255	489	4 928	8 577
	Insulated wire and cable	3130	1.6	0.3	628	195	13 089	5 892
	Other electrical equipment n.e.c.	3190	0.2	0.3	74	208	3 940	6 674
	Electronic valves, tubes, etc.	3210	0.7	0.6	289	420	5 575	8 540
	Office, accounting and computing machinery	3000	0.2	0.5	83	331	6 309	12 794
	TV/radio transmitters; line comm. apparatus	3220	1.0	0.4	378	237	8 084	10 241
	TV and radio receivers and associated goods	3230	1.0	0.6	397	421	9 250	14 202
	Medical, measuring, testing appliances, etc.	331	0.5	0.7	183	443	3 502	9 917
	Optical instruments & photographic equipment	3320	0.1	0.2	23	122	6 779	17 582
	Watches and clocks	3330	0.4	0.1	143	34	6 907	3 288
	Total ICT		7.5	5.5	2 945	3 640	6 871	9 493
	Manufacturing Total	D	100	100	7939 537	8180 493	1 203	1 615
China ⁴	Machinery electric	383	10.0	16.2	14 834	113 447	4 764	14 060
	Professional & scientific equipm.	385	1.0	1.3	1 467	8 948	1 706	10 087
	Total ICT		11.0	17.5	16 301	122 395	4 102	13 666
	Manufacturing Total	300	100	100	58255000	59353 000	N.A.	N.A.

Source: <TNO>, based on data of UNIDO (ISIC Rev. 3)

¹ EU-15: 1995-2004 (Except France: 1996-2000; Germany: 1998-2004; Greece: 1995-1998; Luxembourg: 1995-2003; Portugal: 1996-2004), Data for Europe (EU-15) is composed from data individual EU-15 countries ;

² USA: 1997-2004; Japan: 1995-2004

³ Brazil: 1996-2005, Russia: 2001-2005; India: 1998-2004

⁴ Data for China based on ISIC Rev 2