



Investing in the future of Jobs and Skills

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

Data Annex Post and Telecommunications

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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).

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 10 sections. In coherence with the main report this data annex refers throughout to post and telecommunication (NACE 64). The first section presents data on value added and the second on trade. The remaining sections present data on various variables of employment. Section 3 presents absolute numbers of employment and growth rates by country. Section 4 groups employment by firm size and section 5 by entrepreneurial activity. Section 6 up to 9 are based on Labour Force Survey data. Section 6 presents employment by occupation and relative changes over time therein. Section 7 relates occupations to gender, section 8 to the level of education and section 9 to age groups.

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1. Value Added

Table 1.1 GDP and GDP growth: overall economy and post and telecommunication (NACE 64)

	Post and Telecommunication (NACE 64)				Economy			
	GDP 2006	1995-2000	2000-2006	1995-2006	GDP 2006	1995-2000	2000-2006	1995-2006
	m€		%*		m€		%*	
EU	307 155	6.2	5.1	5.6	11 468 970	2.8	2.0	2.3
EU 6	158 098	4.4	4.6	4.5	6 480 204	2.2	1.3	1.7
EU 9	128 081	8.5	5.1	6.6	4 403 041	3.7	2.8	3.2
EU 15	286 179	6.1	4.8	5.4	10 883 245	2.8	1.9	2.3
NMS	20 976	9.4	9.8	9.6	585 725	2.7	3.7	3.2
Belgium	8 857	5.4	2.4	3.7	316 622	2.4	1.8	2.1
France	48 891	7.6	6.1	6.8	1 792 140	2.5	1.8	2.1
Germany	46 143	-0.6	2.0	0.8	2 322 200	2.1	1.0	1.5
Italy	37 481	7.1	6.4	6.7	1 480 007	1.6	0.7	1.1
Luxembourg	1 412	13.7	4.8	8.8	33 852	5.9	3.9	4.8
Netherlands	15 314	10.2	5.7	7.7	535 382	3.9	1.7	2.7
Austria	5 440	-1.5	4.8	1.9	257 897	3.0	1.8	2.3
Denmark	6 756	5.7	7.5	6.7	220 069	2.8	1.9	2.3
Finland	7 054	13.7	8.6	10.9	167 178	4.3	2.8	3.5
Greece	9 222	9.6	9.5	9.5	214 203	3.5	3.7	3.6
Ireland	2 459	1.4	-2.1	-0.6	177 281	9.2	6.0	7.4
Portugal	5 093	8.1	4.2	5.9	155 324	3.5	1.1	2.1
Spain	24 560	8.1	4.6	6.2	981 777	4.3	3.2	3.7
Sweden	6 117	2.4	0.7	1.5	316 435	2.4	3.1	2.8
United Kingdom	61 381	11.3	5.1	7.9	1 912 877	3.4	2.5	2.9
Bulgaria								
Cyprus								
Czech Republic	4 055	6.7	7.5	7.1	114 060	-0.3	3.9	2.0
Estonia	521	4.5	10.9	7.9	13 223	6.3	8.3	7.4
Hungary	2 980	4.8	3.0	3.8	89 908	3.3	3.6	3.5
Latvia								
Lithuania	1 019	-1.5	10.0	4.6	23 748	4.4	7.5	6.1
Malta								
Poland	10 200	20.9	14.9	17.6	269 756	3.5	3.0	3.2
Romania								
Slovenia	833	4.8	7.2	6.1	30 455	3.3	4.1	3.7
Slovakia	1 367	5.5	5.8	5.6	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 Share of post and telecommunications (NACE 64) in GDP, share in sectoral GDP EU and concentration index*

	Share in GDP by country		Share in EU		Concentration index	
	2006	1995-2006 (change)	2006	1995-2006 (change)	2006	95-2006 (change)
	%	%	%	%	%	%
EU	2.6	0.7	100	0	100	0
EU 6	2.4	0.5	52	-5	91	-4
EU 9	2.9	0.7	42	4	109	1
EU 15	2.6	0.6	94	-2	99	-1
NMS	3.3	1.4	6	2	127	27
Belgium	2.8	0.4	3	0	109	-16
France	2.6	0.9	15	2	98	11
Germany	2.1	-0.1	16	-8	80	-31
Italy	2.4	0.9	12	1	92	15
Luxembourg	0.0	0.0	0	0	0	0
Netherlands	2.8	1.0	5	1	105	16
Austria	2.0	-0.2	2	-1	77	-35
Denmark	3.0	1.0	2	0	116	13
Finland	3.9	1.8	2	1	149	41
Greece	4.1	1.8	3	1	158	40
Ireland	1.6	-1.6	1	-1	60	-102
Portugal	3.2	0.9	2	0	120	3
Spain	2.5	0.5	8	0	96	-9
Sweden	2.0	-0.4	2	-1	76	-43
United Kingdom	3.1	1.1	20	4	120	17
Bulgaria	0.0	0.0	0	0	0	0
Cyprus	3.4	1.0	1	0	129	8
Czech Republic	3.7	0.1	0	0	142	-42
Estonia	3.3	0.2	1	0	127	-35
Hungary	0.0	0.0	0	0	0	0
Latvia	3.9	-1.0	0	0	148	-99
Lithuania	0.0	0.0	0	0	0	0
Malta	3.4	2.4	3	2	131	79
Poland	0.0	0.0	0	0	0	0
Romania	2.6	0.5	0	0	100	-8
Slovenia	2.8	0.1	0	0	106	-31
Slovakia	2.6	0.7	100	0	100	0

*defined as share in country divided by share in EU, times 100

Source: Eurostat/TNO

2. Trade

Table 2.1 Exports, export growth, share of exports in value added, and change over time: post and telecommunications (NACE 64)

	Exports 2006	Annual average growth rate*, 1995-2006	Exports as share of value added, 2006	Change of share in value added, 1995-2006
	m€	%	%	%
EU	33 958	12.0	11	4
EU 6	19 263	15.8	12	6
EU 9	13 415	10.9	10	2
EU 15	32 678	13.5	11	4
NMS	1 280	-2.3	6	-2
Belgium	2 639	11.0	30	16
France	3 784	24.2	8	3
Germany	3 209	7.1	7	5
Italy	2 750	20.9	7	6
Luxembourg	2 466	0.0		
Netherlands	4 415	22.7	29	15
Austria	1 058	12.2	19	2
Denmark	667	3.0	10	-3
Finland	527	14.2	7	-2
Greece	517	7.0	6	-3
Ireland	2 023	25.3	82	31
Portugal	461	1.8	9	-1
Spain	1 222	6.2	5	4
Sweden	1 337	12.2	22	15
United Kingdom	5 604	12.2	9	0
Bulgaria	0	0.0		0
Cyprus	0	0.0		0
Czech Republic	138	-10.4	3	-2
Estonia	108	20.1	21	13
Hungary	274	8.8	9	7
Latvia	0	0.0		0
Lithuania	83	0.0	8	-3
Malta	0	0.0		0
Poland	426	-5.9	4	-10
Romania	0	0.0		0
Slovenia	124	22.7	15	16
Slovakia	127	-1.1	9	-10

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

Source: Eurostat/TNO

Table 2.2 Imports, import growth, exports/imports ratio, and change over time: post and telecommunications (NACE 64)

	Imports	Average annual growth rate*	Exports/imports ratio	Change of exports/imports ratio
	2006	1995-2006	2006	1995-2006
	m€	%	%	%
EU	36 097	11.4	94	9
EU 6	22 540	13.7	85	19
EU 9	12 037	9.3	111	16
EU 15	34 577	11.9	95	16
NMS	1 520	4.1	84	-89
Belgium	2 376	16.6	111	-70
France	2 776	22.7	136	38
Germany	7 681	7.5	42	2
Italy	4 670	19.4	59	3
Luxembourg	978	0.0	252	-239
Netherlands	4 059	20.5	109	19
Austria	565	6.9	187	68
Denmark	768	5.1	87	-18
Finland	376	7.9	140	58
Greece	346	1.8	149	28
Ireland	1 168	16.4	173	88
Portugal	314	1.6	147	4
Spain	1 859	16.0	66	-90
Sweden	1 637	13.7	82	-3
United Kingdom	5 004	8.2	112	30
Bulgaria	0	0.0		0
Cyprus	0	0.0		0
Czech Republic	336	-1.7	41	-38
Estonia	100	23.9	108	-9
Hungary	319	21.6	86	-186
Latvia	0	0.0		0
Lithuania	73	0.8	113	-11
Malta	0	0.0		0
Poland	393	5.8	108	-207
Romania	0	0.0		0
Slovenia	198	24.5	63	-19
Slovakia	100	-7.2	127	58

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

Source: Eurostat/TNO

3. Employment, employment growth and concentration

Table 3.1 Employment* of economy, manufacturing and post and telecommunications (NACE 64), 2006 (persons)

	Employment economy	Total manufacturing	Employment 64
	2006	2006	2006
EU	219 623 000	34 412 299	3 365 948
EU 6	102 008 000	16 767 331	1 714 869
EU 9	75 247 000	9 425 653	1 074 247
EU 15	177 255 000	26 192 984	2 789 116
NMS	43 668 000	8 219 315	576 832
Belgium	4 343 000	608 502	79 383
Germany	39 024 000	7 108 858	801 031
France	25 356 000	3 657 504	452 761
Italy	24 695 000	4 576 771	263 602
Luxembourg	203 000	37 020	3 711
Netherlands	8 387 000	778 676	114 382
Denmark	2 782 000	415 088	55 383
Ireland	2 042 000	220 101	31 776
Greece	4 642 000	400 081	40 766
Spain	20 000 000	2 589 588	171 554
Austria	4 800 000	624 394	51 735
Portugal	5 167 000	830 116	33 090
Finland	2 444 000	406 638	42 970
Sweden	4 423 000	798 471	86 634
United Kingdom	28 947 000	3 141 176	560 338
Bulgaria	3 612 000	663 847	49 151
Czech Republic	4 986 000	1 354 162	104 226
Estonia	648 000	132 236	8 736
Cyprus	373 000	36 490	
Latvia	1 088 000	163 840	14 199
Lithuania	1 504 000	267 850	17 663
Hungary	3 905 000	778 075	59 555
Malta	154 000	31 705	
Poland	14 594 000	2 590 854	193 075
Romania	9 568 000	1 552 158	77 480
Slovenia	935 000	235 917	11 428
Slovakia	2 301 000	412 181	41 319

* employers and employees

Source: Eurostat/TNO

Table 3.2 Employment* of economy, manufacturing, post and telecommunications (NACE 64), 2000 (persons)

	Total employment	Total manufacturing	64
	2000	2000	2000
EU	208 795 000	36 775 816	3 113 781
EU 6	98 307 000	18 025 935	1 496 300
EU 9	69 035 000	10 634 910	1 089 233
EU 15	167 342 000	28 660 845	2 585 533
NMS	41 453 000	8 114 971	528 248
Belgium	4 142 000	676 961	81 755
Germany	39 038 000	7 551 269	489 832
France	24 332 000	4 026 591	482 317
Italy	22 498 000	4 821 489	292 335
Luxembourg	185 000	34 357	4 075
Netherlands	8 112 000	915 268	145 986
Denmark	2 757 000	488 000	59 489
Ireland	1 696 000	255 705	27 048
Greece	4 255 000	402 365	41 386
Spain	16 399 000	2 594 832	194 891
Austria	4 836 000	628 753	64 405
Portugal	5 054 000	937 549	38 397
Finland	2 303 000	435 788	47 283
Sweden	4 301 000	791 764	91 506
United Kingdom	27 434 000	4 100 154	524 828
Bulgaria	3 239 000	611 347	45 043
Czech Republic	4 825 000	1 377 896	71 804
Estonia	575 000	119 379	9 514
Cyprus	315 000	36 422	
Latvia	944 000	153 516	14 127
Lithuania	1 403 000	244 720	18 412
Hungary	3 844 000	756 003	66 441
Malta	146 000	31 728	
Poland	14 526 000	2 274 083	151 576
Romania	8 629 000	1 835 416	103 898
Slovenia	905 000	263 204	12 309
Slovakia	2 102 000	411 256	35 123

* employers and employees

Source: Eurostat/TNO

Table 3.3 Employment* post and telecommunications (NACE 64) and subsectors: post (NACE 641) and telecommunications (NACE 642), 2006 (total numbers times 1,000)

	64	641	642
	2006	2006	2006
EU	3 366	1 944	1 229
EU 6	1 715	1 089	626
EU 9	1 074	630	445
EU 15	2 789	1 718	1 071
NMS	577	225	159
Belgium	79	48	31
France	801	536	265
Germany	453	297	156
Italy	264	161	102
Luxembourg	4	3	1
Netherlands	114	43	71
Austria	55	36	20
Denmark	32	16	16
Finland	41	16	25
Greece	172	108	64
Ireland	52	32	20
Portugal	33	18	15
Spain	43	23	20
Sweden	87	53	33
United Kingdom	560	328	232
Bulgaria	49	16	33
Cyprus	104	74	31
Czech Republic	9	5	3
Estonia	-	-	-
Hungary	14	9	6
Latvia	18	11	6
Lithuania	60	40	19
Malta	-	-	-
Poland	193	-	-
Romania	77	36	41
Slovenia	11	6	5
Slovakia	41	27	14

* Employers and employees

Source: Eurostat/TNO

Table 3.4 Employment* growth,** period 2000-2006: post and telecommunications (NACE 64) and sub-sectors post (NACE 641) and telecommunications (NACE 642)

	64	641	642
	<i>CAGR 2000-2006 (%)</i>	<i>CAGR 2000-2006 (%)</i>	<i>CAGR 2000-2006 (%)</i>
EU	1.3	1.7	0.3
EU 6	2.3	2.3	2.3
EU 9	-0.2	0.5	-1.2
EU 15	1.3	1.6	0.7
NMS	1.5	2.7	-2.5
Belgium	-0.5	-0.2	-0.9
France	8.5	9.1	7.5
Germany	-1.0	-0.9	-1.3
Italy	-1.7	-1.9	-1.5
Luxembourg	-1.5	-1.4	-1.9
Netherlands	-4.0	-10.5	2.4
Austria	-1.2	-0.8	-1.9
Denmark	2.7	3.6	1.9
Finland	-0.3	3.3	-2.2
Greece	-2.1	-1.0	-3.8
Ireland	-3.6	-3.0	-4.5
Portugal	-2.4	-0.5	-4.4
Spain	-1.6	-3.2	0.6
Sweden	-0.9	-1.5	0.0
United Kingdom	1.1	2.1	-0.2
Bulgaria	1.5	0.8	1.8
Cyprus	6.4	8.5	2.3
Czech Republic	-1.4	-3.4	2.3
Estonia			
Hungary	0.1	3.3	-3.9
Latvia	-0.7	3.4	-5.8
Lithuania	-1.8	-2.0	-1.4
Malta			
Poland	4.1		
Romania	-4.8	0.1	-8.0
Slovenia	-1.2	-1.8	-0.5
Slovakia	2.7	5.3	-1.2

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

Source: Eurostat/TNO

Table 3.5 Share of sector employment* of Member States in EU (sub-)sector employment. Post and Telecommunications (NACE 64) and post (NACE 641) and telecommunications (NACE 642)

	64	641	642	64	641	642
	<i>Share 2006</i>			<i>Change in share 2000-2006</i>		
EU	100	100	100	0	0	0
EU 6	51	56	51	3	2	6
EU 9	32	32	36	-3	-2	-3
EU 15	83	88	87	0	-1	2
NMS	17	12	13	0	1	-2
Belgium	2	2	3	0	0	0
France	24	28	22	8	9	7
Germany	13	15	13	-2	-3	-1
Italy	8	8	8	-2	-2	-1
Luxembourg	0	0	0	0	0	0
Netherlands	3	2	6	-1	-3	1
Austria	2	2	2	0	0	0
Denmark	1	1	1	0	0	0
Finland	1	1	2	0	0	0
Greece	5	6	5	-1	-1	-1
Ireland	2	2	2	-1	-1	-1
Portugal	1	1	1	0	0	0
Spain	1	1	2	0	0	0
Sweden	3	3	3	0	-1	0
United Kingdom	17	17	19	0	0	0
Bulgaria	1	1	3	0	0	0
Cyprus	3	4	2	1	1	0
Czech Republic	0	0	0	0	0	0
Estonia	0	0	0	0	0	0
Hungary	0	0	0	0	0	0
Latvia	1	1	1	0	0	0
Lithuania	2	2	2	0	-1	0
Malta	0	0	0	0	0	0
Poland	6	0	0	1	0	0
Romania	2	2	3	-1	0	-2
Slovenia	0	0	0	0	0	0
Slovakia	1	1	1	0	0	0

* employees and self-employees

Source: Eurostat/TNO

Table 3.6 Share of sector employment* in total employment. Post and telecommunications (NACE 64), 2006

	64
	%
EU	1.53
EU 6	1.68
EU 9	1.43
EU 15	1.57
NMS	1.32
Belgium	1.83
Germany	2.05
France	1.79
Italy	1.07
Luxembourg	1.83
Netherlands	1.36
Denmark	1.99
Ireland	1.56
Greece	0.88
Spain	0.86
Austria	1.08
Portugal	0.64
Finland	1.76
Sweden	1.96
United Kingdom	1.94
Bulgaria	1.36
Czech Republic	2.09
Estonia	1.35
Cyprus	0.00
Latvia	1.31
Lithuania	1.17
Hungary	1.53
Malta	0.00
Poland	1.32
Romania	0.81
Slovenia	1.22
Slovakia	1.80

Source: Eurostat/TNO

4. Firm size

Table 4.1 Employment by firm size. Share and changes in share of employment by firm size in post and telecommunications (NACE 64)

	Share 2006			Total change in share 1999-2006		
	<49	50-249	>249	<49	50-249	>249
	<i>Number of employees</i>			<i>Number of employees</i>		
EU	7.7	4.8	87.5	2.5	2.3	-4.7
EU 6	5.9	4.6	89.4	3.3	3.1	-6.4
EU 9	10.6	5.5	83.9	0.9	1.6	-2.5
EU 15	7.7	5.0	87.3	2.2	2.4	-4.6
NMS	7.8	3.7	88.5	4.3	1.3	-5.6
Belgium	10.3	4.8	84.8	4.0	0.2	-4.2
France	2.7	1.0	96.3	0.5	-0.2	-0.3
Germany	6.3	8.5	85.1	5.1	6.9	-12.0
Italy	4.2	1.5	94.3	2.0	0.9	-2.9
Luxembourg						
Netherlands	16.0	3.4	80.6	8.3	0.3	-8.7
Denmark	7.4	6.6	86.0	1.2	1.6	-2.8
Ireland						
Greece	10.6	5.1	84.2			
Spain	17.5	7.0	75.5	1.0	0.6	-1.6
Austria	4.6	8.6	86.8	-3.6	8.6	-5.0
Portugal	10.2	4.4	85.4	6.0	1.6	-7.6
Finland	6.3	11.2	82.5	1.5	4.0	-5.5
Sweden	4.5	4.9	90.5	2.3	2.4	-4.7
United Kingdom	10.6	4.3	85.1	0.5	0.8	-1.4
Bulgaria	13.7	9.6	76.8			
Czech Republic	4.4	3.2	92.4	0.2	1.7	-1.9
Estonia	8.0	10.8	81.3			
Cyprus						
Latvia	15.7	5.2	79.0	10.2	0.8	-11.0
Lithuania	13.3	11.8	74.9	8.9	4.4	-13.3
Hungary	10.2	5.4	84.4	5.4	2.2	-7.5
Malta						
Poland	7.8	2.3	89.9	4.9	0.4	-5.2
Romania	14.8	6.6	78.6	11.4	-0.9	-10.5
Slovenia						
Slovakia	3.4	4.6	91.9	2.0	3.1	-5.1

Source: Eurostat/TNO

Table 4.2 Number of firms by firm size. Share and changes in share of firms by firm size in post and telecommunications (NACE 64)

	Share 2006			Change in share 1999-2006		
	<49	50-249	>249	<49	50-249	>249
	<i>Number of employees</i>			<i>Number of employees</i>		
EU	97.3	1.8	0.9	-0.6	0.5	0.1
EU 6	96.7	2.1	1.1	-1.1	1.0	0.2
EU 9	97.6	1.7	0.7	-0.4	0.3	0.0
EU 15	97.2	1.9	0.9	-0.8	0.6	0.2
NMS	97.8	1.5	0.7	1.1	-0.7	-0.4
Belgium	98.6	1.0	0.5	0.6	-0.5	-0.1
France	98.8	0.7	0.5	1.0	-0.6	-0.3
Germany	92.9	4.7	2.4	-1.7	2.9	-1.2
Italy	98.7	0.8	0.5	0.0	0.1	-0.1
Luxembourg	91.8	6.6	1.6	0.7	-1.0	0.4
Netherlands	98.5	0.9	0.6	-0.2	0.2	0.1
Denmark	96.0	2.5	1.5	-2.4	1.5	0.9
Ireland						
Greece	95.1	3.0	1.9			
Spain	97.9	1.7	0.3	-0.2	0.2	0.1
Austria	95.6	1.9	2.4	-0.9	0.6	0.3
Portugal	98.4	0.9	0.6	8.4	-4.1	-4.3
Finland	91.7	5.8	2.4	3.0	-1.0	-2.0
Sweden	95.1	2.9	2.0	0.9	-0.4	-0.5
United Kingdom	98.2	1.3	0.5	-0.4	0.4	0.0
Bulgaria	95.9	3.0	1.1			
Czech Republic	96.6	2.0	1.5	-1.8	0.8	1.0
Estonia	91.0	5.2	3.7	8.8	-9.4	0.6
Cyprus						
Latvia	95.8	2.6	1.6	4.7	-3.8	-0.8
Lithuania	92.1	6.3	1.6	5.7	-3.7	-2.0
Hungary	98.1	1.4	0.5	18.1	-10.6	-7.5
Malta						
Poland	98.7	0.8	0.4	-0.6	0.2	0.4
Romania	97.7	1.8	0.5	12.0	-9.4	-2.6
Slovenia	98.2	1.2	0.5	1.5	-0.1	-1.4
Slovakia	87.9	8.9	3.2	4.6	-1.3	-3.3

Source: Eurostat/TNO

5. Employment and entrepreneurs

Table 5.1 Share of employees, entrepreneurs in total employed, and share of part-time in total employed 2005. Post and telecommunications (NACE 64)

	Total employed (2005)	Share of employees in total employed	Share of entrepreneurs in total employed
EU	3 075 407	0.97	0.03
EU 6	1 518 883	0.98	0.02
EU 9	1 040 989	0.96	0.04
EU 15	2 559 872	0.98	0.02
NMS	515 535	0.96	0.04
Belgium	77 108	0.96	0.04
Germany	625 849	0.98	0.02
France	430 477	1.00	0.00
Italy	265 691	0.98	0.02
Luxembourg	4 130	0.99	0.01
Netherlands	115 628	0.98	0.02
Denmark	55 161	0.98	0.02
Ireland	28 902	0.96	0.04
Greece	44 361	0.99	0.01
Spain	164 064	0.97	0.03
Austria	49 377	0.99	0.01
Portugal	35 106	0.99	0.01
Finland	43 304	1.00	0.00
Sweden	92 070	0.82	0.18
United Kingdom	528 644	0.98	0.02
Bulgaria	49 910	0.95	0.05
Czech Republic	69 876	0.92	0.08
Estonia	8 011	1.00	0.00
Cyprus	4 041	0.99	0.01
Latvia	14 350	1.00	0.00
Lithuania	16 594	0.99	0.01
Hungary	62 465	0.97	0.03
Malta	3 322	0.98	0.02
Poland	165 731	0.93	0.07
Romania	81 337	0.99	0.01
Slovenia	11 924	0.96	0.04
Slovakia	27 974	1.00	0.00

Source: Eurostat/TNO

6. Employment and occupations

Table 6.1 Employment by occupation in post and telecommunications (NACE 64), 2006 (in thousands)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers. plant operators. drivers	Elementary occupations
EU	3366	289	259	570	1404	75	171	237	359
EU 6	1715	99	134	317	797	33	70	131	134
EU 9	1074	135	73	147	338	24	74	79	204
EU 15	1599	140	120	270	643	37	84	112	194
NMS	577	55	52	107	269	18	27	27	21
Belgium	79	9	9	11	41	1	1	4	4
Germany	801	34	68	116	379	4	48	87	65
France	453	32	37	113	215	18	5	24	9
Italy	264	13	16	60	100	5	11	11	47
Luxembourg	4	0	0	1	2	0	0	0	0
Netherlands	114	11	3	17	60	5	5	4	9
Denmark	55	3	5	12	28	1	0	1	6
Ireland	32	5	2	4	12	1	4	2	3
Greece	41	2	4	4	24	1	4	2	1
Spain	172	10	18	34	73	6	15	11	3
Austria	52	4	5	10	22	1	3	3	4
Portugal	33	2	6	5	17	1	1	0	1
Finland	43	4	3	8	19	0	2	1	6
Sweden	87	3	5	18	39	1	8	4	8
United Kingdom	560	103	25	53	105	11	37	53	173
Bulgaria	49	5	8	8	15	1	5	2	4
Czech Republic	104	9	10	22	48	1	3	6	5
Estonia	9	2	1	2	4	0	0	0	0
Cyprus	0	0	0	0	0	0	0	0	0
Latvia	14	2	2	2	5	1	0	1	0
Lithuania	18	2	1	2	10	0	0	1	1
Hungary	60	5	3	11	28	6	3	3	2
Malta	0	0	0	0	0	0	0	0	0
Poland	193	23	12	37	96	6	8	9	3
Romania	77	2	10	13	38	2	5	4	3
Slovenia	11	1	1	2	6	0	1	0	1
Slovakia	41	4	4	9	19	1	1	2	2

Source: Alphametrics/Eurostat/TNO

Table 6.2 Share of employment by occupation in post and telecommunications (NACE 64), 2006 (in %)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	100	9	8	17	42	2	5	7	11
EU 6	100	6	8	18	46	2	4	8	8
EU 9	100	13	7	14	31	2	7	7	19
EU 15	100	9	8	17	40	2	5	7	12
NMS	100	10	9	19	47	3	5	5	4
Belgium	100	11	12	13	52	2	1	5	5
Germany	100	4	8	14	47	1	6	11	8
France	100	7	8	25	47	4	1	5	2
Italy	100	5	6	23	38	2	4	4	18
Luxembourg	100	4	9	23	49	2	5	3	6
Netherlands	100	10	3	15	53	4	4	4	8
Denmark	100	5	9	22	50	1	1	2	10
Ireland	100	16	7	12	37	4	12	5	8
Greece	100	4	10	9	58	1	10	6	2
Spain	100	6	11	20	43	4	9	7	2
Austria	100	8	9	18	43	3	6	6	7
Portugal	100	6	19	14	50	3	4	1	3
Finland	100	9	7	18	45	1	4	3	14
Sweden	100	3	6	21	45	2	9	5	9
United Kingdom	100	18	4	9	19	2	7	10	31
Bulgaria	100	10	17	16	31	3	11	4	9
Czech Republic	100	9	10	21	46	1	3	6	5
Estonia	100	20	6	18	46	0	5	2	2
Cyprus									
Latvia	100	15	12	17	38	6	0	8	3
Lithuania	100	12	6	14	54	1	2	4	6
Hungary	100	8	5	18	47	10	5	4	3
Malta									
Poland	100	12	6	19	50	3	4	5	1
Romania	100	3	13	17	49	3	6	5	4
Slovenia	100	7	10	17	50	1	5	3	7
Slovakia	100	10	11	21	45	1	2	4	5

Source: Alphametrics/Eurostat/TNO

Table 6.3 Change in share of employment by occupation in post and telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	1	-2	1	-6	1	-2	0	6
EU 6	1	-3	-1	-3	1	-1	2	3
EU 9	1	-1	2	-16	0	-2	2	14
EU 15	1	-2	1	-8	1	-2	2	7
NMS	2	1	4	4	2	-4	-5	-3
Belgium	5	-3	1	-7	0	0	2	2
Germany	1	-2	-2	-1	0	-1	3	4
France	2	-3	-1	-3	3	0	2	0
Italy	1	-9	9	-5	1	-4	0	7
Luxembourg	0	4	6	-7	0	0	1	-5
Netherlands	0	-2	-5	1	2	-1	-1	6
Denmark	0	-8	3	-3	0	0	-2	9
Ireland	4	2	6	-4	-1	-7	-2	2
Greece	0	-2	2	2	1	-7	5	-1
Spain	2	0	-2	-3	2	0	3	-1
Austria	3	3	9	-16	2	-7	2	3
Portugal	4	-8	4	1	2	-3	-1	1
Finland	-1	0	-1	4	0	-5	0	4
Sweden	1	-2	5	-6	-1	5	0	-1
United Kingdom	0	0	2	-27	-2	-3	3	26
Bulgaria	1	7	0	6	1	-3	-5	-7
Czech Republic	3	-3	3	4	-1	-3	0	-3
Estonia	-7	2	6	1	0	-6	2	2
Cyprus								
Latvia	0	3	4	0	2	-7	-2	-1
Lithuania	-1	-3	11	15	-3	-8	-11	0
Hungary	-1	-4	7	5	8	-12	0	-3
Malta								
Poland								
Romania	2	13	-1	-6	2	6	-15	-1
Slovenia	2	0	8	-4	-2	-1	-9	5
Slovakia	0	-2	8	9	0	-12	-4	1

Source: Alphametrics/Eurostat/TNO

7. Occupations and gender

Table 7.1 Share of males by occupation in post and telecommunications (NACE 64), 2006 (in %)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	61	66	88	59	44	48	94	89	71
EU 6	60	68	89	61	47	44	92	86	59
EU 9	69	72	87	66	47	46	95	93	82
EU 15	64	70	88	63	47	45	94	90	74
NMS	47	48	87	47	30	59	96	91	45
Belgium	66	74	92	65	58	62	100	93	35
Germany	61	73	93	59	47	31	91	83	55
France	55	59	85	56	46	41	97	88	51
Italy	61	62	83	67	44	43	98	97	64
Luxembourg	71	100	95	69	68	100	100	84	13
Netherlands	66	82	89	73	55	64	90	88	78
Denmark	61	63	78	55	58	74	100	100	58
Ireland	70	60	92	69	59	50	91	94	91
Greece	69	76	95	53	61	55	98	93	23
Spain	63	79	83	67	45	40	98	90	61
Austria	69	82	84	68	61	55	85	80	67
Portugal	61	73	82	64	48	38	93	100	62
Finland	59	87	69	48	52	18	98	93	56
Sweden	66	64	81	61	57	37	97	89	73
United Kingdom	72	71	95	72	33	48	94	94	84
Bulgaria	49	37	74	56	20	65	84	98	39
Czech Republic	39	46	93	50	13	39	100	87	25
Estonia	40	45	85	18	30	0	100	100	100
Cyprus									
Latvia	38	0	95	65	14	80		53	0
Lithuania	29	18	83	47	15	89	96	100	0
Hungary	48	52	86	49	34	49	99	96	44
Malta									
Poland	55	54	92	46	45	75	100	98	93
Romania	46	51	84	44	24	44	94	92	51
Slovenia	68	86	85	54	59	100	100	95	81
Slovakia	38	56	88	33	16	36	100	77	55

Source: Alphametrics/Eurostat/TNO

Table 7.2 Change in share of male employment by occupation in post and telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations	Total
EU	-1	-1	4	-3	2	4	2	15	1
EU 6	-5	-1	3	-3	-6	4	0	3	-1
EU 9	0	-2	6	-10	4	-2	-2	10	1
EU 15	-2	-2	5	-5	1	1	0	11	0
NMS	4	9	1	11	-1	16	8	11	5
Belgium	24	4	3	-6	33	0	-7	12	0
Germany	-3	6	5	1	-20	8	-3	12	2
France	-8	-4	-1	-1	-10	29	4	19	-1
Italy	-11	-11	6	-9	-1	-1	15	-9	-8
Luxembourg	31	18	0	7	0	0	-16	13	12
Netherlands	-9	-3	10	-6	5	-7	-3	-5	-3
Denmark	-12	-10	10	-1	74	0	14	-42	-3
Ireland	-6	1	3	0	1	-4	5	1	-2
Greece	-24	12	-13	-6	-11	3	-7	-7	-5
Spain	-7	-4	4	1	-7	-1	7	0	2
Austria	32	-5	0	-4	-45	-15	-20	7	-3
Portugal	32	-9	30	-7	38	1	0	62	-3
Finland	1	-10	5	6	-34	3	-7	5	0
Sweden	-36	-9	0	14	-2	-3	-4	-3	7
United Kingdom	2	2	7	-29	8	-2	-4	5	2
Bulgaria	0	13	13	8	-5	16	8	18	9
Czech Republic	-1	9	19	4	-4	11	5	-10	3
Estonia	9	85	-17	3		0			3
Cyprus									
Latvia	-38	24	11	5	23		-1	-62	-1
Lithuania	-13	-17	29	12	-11	-4	10	-25	-15
Hungary	8	19	5	-3	1	29	10	-16	-2
Malta									
Poland									
Romania	-10		-23	1	-56		10	10	1
Slovenia	20	-15	14	10	28	0	-5	-19	3
Slovakia	9	3	12	12	36	11	-18	38	-2

Source: Alphametrics/Eurostat/TNO

Table 7.3 Share of females in employment by occupation in post and telecommunications (NACE 64), 2006 (in %)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	39	34	12	41	56	52	6	11	29
EU 6	40	32	11	39	53	56	8	14	41
EU 9	31	28	13	34	53	54	5	7	18
EU 15	36	30	12	37	53	55	6	10	26
NMS	53	52	13	53	70	41	4	9	55
Belgium	34	26	8	35	42	38	0	7	65
Germany	39	27	7	41	53	69	9	17	45
France	45	41	15	44	54	59	3	12	49
Italy	39	38	17	33	56	57	2	3	36
Luxembourg	29	0	5	31	32	0	0	16	87
Netherlands	34	18	11	27	45	36	10	12	22
Denmark	39	37	22	45	42	26	0	0	42
Ireland	30	40	8	31	41	50	9	6	9
Greece	31	24	5	47	39	45	2	7	77
Spain	37	21	17	33	55	60	2	10	39
Austria	31	18	16	32	39	45	15	20	33
Portugal	39	27	18	36	52	62	7	0	38
Finland	41	13	31	52	48	82	2	7	44
Sweden	34	36	19	39	43	63	3	11	27
United Kingdom	28	29	5	28	67	52	6	6	16
Bulgaria	51	63	26	44	80	35	16	2	61
Czech Republic	61	54	7	50	87	61	0	13	75
Estonia	60	55	15	82	70	100	0	0	0
Cyprus									
Latvia	62	100	5	35	86	20		47	100
Lithuania	71	82	17	53	85	11	4	0	100
Hungary	52	48	14	51	66	51	1	4	56
Malta									
Poland	45	46	8	54	55	25	0	2	7
Romania	54	49	16	56	76	56	6	8	49
Slovenia	32	14	15	46	41	0	0	5	19
Slovakia	62	44	12	67	84	64	0	23	45

Source: Alphametrics/Eurostat/TNO

Table 7.4 Change in share of female employment by occupation in post and telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations	Total
EU	1	1	-4	3	-2	-4	-2	-15	-1
EU 6	5	1	-3	3	6	-4	0	-3	1
EU 9	0	2	-6	10	-4	2	2	-10	-1
EU 15	2	2	-5	5	-1	-1	0	-11	0
NMS	-4	-9	-1	-11	1	-16	-8	-11	-5
Belgium	-24	-4	-3	6	-33	0	7	-12	0
Germany	3	-6	-5	-1	20	-8	3	-12	-2
France	8	4	1	1	10	-29	-4	-19	1
Italy	11	11	-6	9	1	1	-15	9	8
Luxembourg	-31	-18	0	-7	0	0	16	-13	-12
Netherlands	9	3	-10	6	-5	7	3	5	3
Denmark	12	10	-10	1	-74	0	-14	42	3
Ireland	6	-1	-3	0	-1	4	-5	-1	2
Greece	24	-12	13	6	11	-3	7	7	5
Spain	7	4	-4	-1	7	1	-7	0	-2
Austria	-32	5	0	4	45	15	20	-7	3
Portugal	-32	9	-30	7	-38	-1	0	-62	3
Finland	-1	10	-5	-6	34	-3	7	-5	0
Sweden	36	9	0	-14	2	3	4	3	-7
United Kingdom	-2	-2	-7	29	-8	2	4	-5	-2
Bulgaria	0	-13	-13	-8	5	-16	-8	-18	-9
Czech Republic	1	-9	-19	-4	4	-11	-5	10	-3
Estonia	-9	-85	17	-3		0			-3
Cyprus									
Latvia	38	-24	-11	-5	-23		1	62	1
Lithuania	13	17	-29	-12	11	4	-10	25	15
Hungary	-8	-19	-5	3	-1	-29	-10	16	2
Malta									
Poland									
Romania	10		23	-1	56		-10	-10	-1
Slovenia	-20	15	-14	-10	-28	0	5	19	-3
Slovakia	-9	-3	-12	-12	-36	-11	18	-38	2

Source: Alphametrics/Eurostat/TNO

8. Occupations and level of education

Table 8.1 Share of low educated* in employment by occupation in post and telecommunications (NACE 64), 2006 (in %)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers. plant operators. drivers	Elementary occupations
EU	21	8	6	9	23	25	14	35	46
EU 6	23	7	9	13	27	29	12	37	42
EU 9	26	13	7	7	26	30	19	42	52
EU 15	25	11	8	11	28	31	19	42	49
NMS	4	1	0	0	6	12	2	9	15
Belgium	26	2	12	17	35	20	40	33	41
Germany	17	6	3	8	18	20	7	26	41
France	31	4	18	20	41	33	0	60	43
Italy	21	10	9	7	16	10	35	71	42
Luxembourg	36	0	0	0	60	25	0	33	90
Netherlands	33	16	8	12	41	42	22	46	46
Denmark	27	17	13	10	27	0	55	40	74
Ireland	23	6	18	7	31	19	16	36	52
Greece	10	0	0	0	8	45	28	19	84
Spain	22	13	0	6	28	44	31	46	52
Austria	18	11	0	5	23	29	15	43	31
Portugal	44	33	20	9	56	32	99	100	87
Finland	26	0	13	12	30	61	21	34	51
Sweden	10	8	1	3	9	7	8	14	36
United Kingdom	31	14	9	9	29	26	13	44	52
Bulgaria	3	0	0	0	4	7	0	4	16
Czech Republic	4	0	0	1	5	39	0	9	20
Estonia	2	0	0	0	2	0	0	39	0
Cyprus									
Latvia	7	0	0	0	12	0		12	38
Lithuania	7	0	0	0	12	0	26	0	0
Hungary	10	7	0	2	11	25	2	12	33
Malta									
Poland	3	0	0	0	4	0	4	13	8
Romania	3	0	0	1	4	8	1	0	8
Slovenia	4	0	0	0	5	0	0	0	18
Slovakia	5	0	0	0	9	0	0	12	6

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

Table 8.2 Change in share of low educated* employees by occupation in post and telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations	Total
EU	-2	-3	-3	-6	5	-3	7	-3	-2
EU 6									
EU 9									
EU 15	-3	-3	-3	-5	7	-4	2	-6	-2
NMS	-1	0	-3	-5	4	-2	1	-19	-4
Belgium	-8	-16	8	-12	-6	-8	-12	-19	-11
Germany	-4	1	-1	0	7	-3	2	2	1
France	-6	2	-3	-3	-23	-24	25	-10	-2
Italy	5	-5	-4	-6	-12	-21	9	-15	-6
Luxembourg	0	0	0	22	25	0	-16	4	4
Netherlands	4	-6	-9	-5	23	-15	-3	-12	-2
Denmark	17	6	-7	-7	0	55	24	14	3
Ireland	-7	12	2	-6	-4	-15	-14	-12	-9
Greece	0	0	-3	-2	18	0	-59	20	-3
Spain	-1	-3	-2	-1	27	6	3	-16	0
Austria	11	0	-1	-4	-71	5	3	-35	-4
Portugal	33	-16	-7	0	-6	-1	0	-13	-6
Finland	-20	7	7	-5	61	-10	5	-11	-2
Sweden	8	-20	-6	4	-11	-6	-23	-6	-3
United Kingdom	-4	0	0	-17	1	4	-8	-5	-2
Bulgaria	0	0	0	1	7	-3	-16	-17	-5
Czech Republic	-4	0	0	-7	19	0	6	-11	-4
Estonia	0	0	0	-6		0			-2
Cyprus									
Latvia	-1	0	0	-7	0		7	8	-3
Lithuania	0	0	0	4	0	26	-14	-54	-1
Hungary	7	0	-1	-5	13	-9	-11	-11	-2
Malta									
Poland									
Romania	0		-2	-3	8		-5	-15	-4
Slovenia	0	0	0	-3	-24	0	0	-43	-2
Slovakia	0	0	-2	-2	0	0	5	-33	-2

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

Table 8.3 Share of medium educated* employees by occupation in post and telecommunications (NACE 64), 2006 (in %)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	57	43	46	47	67	58	74	58	48
EU 6	59	42	49	51	65	58	83	56	54
EU 9	48	43	38	40	58	49	60	50	41
EU 15	52	42	42	46	60	52	65	50	46
NMS	70	45	47	48	84	69	91	89	80
Belgium	43	26	39	28	48	47	60	55	59
Germany	67	51	53	52	76	74	86	67	53
France	45	29	39	43	49	53	100	29	57
Italy	67	63	61	68	77	86	64	27	55
Luxembourg	43	0	13	61	40	75	100	67	10
Netherlands	47	35	56	44	48	38	70	49	43
Denmark	55	14	72	47	65	75	45	54	24
Ireland	44	33	27	26	54	46	51	52	39
Greece	62	43	20	27	78	55	57	66	16
Spain	30	35	11	25	37	24	26	33	16
Austria	72	56	81	70	75	58	82	53	69
Portugal	33	42	25	35	36	68	1	0	13
Finland	48	18	41	32	61	18	77	59	43
Sweden	72	36	64	58	81	77	92	81	51
United Kingdom	48	45	45	40	56	55	69	50	42
Bulgaria	61	33	45	39	76	73	84	89	65
Czech Replubic	81	65	73	64	93	55	100	91	78
Estonia	58	57	44	55	54	100	100	61	100
Cyprus									
Latvia	68	83	28	28	83	100		88	57
Lithuania	69	78	39	27	77	100	74	65	100
Hungary	69	36	38	35	86	75	97	88	67
Malta									
Poland	65	34	30	45	80	59	86	87	92
Romania	72	22	35	35	90	62	97	95	88
Slovenia	72	30	40	37	92	100	86	100	79
Slovakia	82	64	78	69	89	100	100	88	94

* medium educated (ISCED level 3+4)

Source: Alphametrics/Eurostat/TNO

Table 8.4 Change in share of medium educated employees by occupation in post and telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations	Total
EU	2	-10	-3	2	-2	1	-8	1	-2
EU 6									
EU 9									
EU 15	4	-9	-1	2	-6	2	-3	3	-1
NMS	-5	-20	-14	0	9	4	1	17	-6
Belgium	-4	-18	-8	7	-8	8	20	19	1
Germany	8	4	4	1	-4	6	0	-3	2
France	0	-15	-3	-1	8	24	-33	16	-3
Italy	12	-10	-1	3	15	21	-11	14	3
Luxembourg	0	-51	-1	-17	-25	0	16	4	-10
Netherlands	-15	5	1	1	-27	10	4	1	-1
Denmark	-32	10	-2	6	-25	-55	-30	-15	-4
Ireland	-5	-6	-5	2	-4	-4	9	9	-3
Greece	-2	-22	6	0	-18	-10	44	-20	-3
Spain	6	3	-7	-2	-24	-5	2	-15	-3
Austria	24	0	-14	5	58	1	-8	35	2
Portugal	-18	1	-10	-5	68	1	0	13	1
Finland	-3	2	-11	11	-35	10	-4	11	3
Sweden	-22	-7	0	-7	12	6	26	4	-3
United Kingdom	8	0	5	11	0	0	6	2	3
Bulgaria	5	-6	-6	-8	-12	0	16	2	-4
Czech Republic	-7	-2	-22	6	-25	0	-3	11	-2
Estonia	11	-56	-27	-21		0			-14
Cyprus									
Latvia	45	-41	-29	3	43		-7	33	1
Lithuania	78	39	27	28	100	51	-1	54	35
Hungary	-18	-12	-13	5	-4	9	11	16	-2
Malta									
Poland									
Romania	-40		-14	0	62		3	11	-10
Slovenia	-39	-35	-30	3	24	-14	12	39	-12
Slovakia	-3	-8	5	0	0	4	-5	33	-2

* medium educated (ISCED level 3+4)

Source: Alphametrics/Eurostat/TNO

Table 8.5 Share of high educated* employees by occupation in post and telecommunications (NACE 64), 2006 (in %)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	22	49	48	44	10	17	12	7	6
EU 6	18	52	42	37	8	13	5	7	4
EU 9	26	45	55	53	17	21	20	8	7
EU 15	23	48	50	43	12	18	16	8	6
NMS	25	54	53	52	10	19	7	2	5
Belgium	31	72	49	55	17	34	0	12	0
Germany	16	43	44	40	6	6	7	7	6
France	24	66	44	37	10	15	0	12	0
Italy	12	28	30	25	7	4	0	2	2
Luxembourg	21	100	87	39	0	0	0	0	0
Netherlands	20	49	36	44	10	20	8	5	11
Denmark	18	69	15	43	8	25	0	6	2
Ireland	33	61	55	67	15	34	33	11	10
Greece	27	57	80	73	14	0	15	15	0
Spain	48	52	89	69	34	32	43	21	32
Austria	11	33	19	25	2	13	3	4	0
Portugal	23	25	55	56	8	0	0	0	0
Finland	26	82	46	56	9	21	2	7	6
Sweden	19	55	35	38	11	16	0	5	13
United Kingdom	21	41	46	51	15	19	18	6	6
Bulgaria	36	67	55	61	20	20	16	7	19
Czech Republic	14	35	27	35	2	6	0	0	3
Estonia	41	43	56	45	44	0	0	0	0
Cyprus									
Latvia	26	17	72	72	5	0		0	5
Lithuania	24	22	61	73	11	0	0	35	0
Hungary	21	57	62	64	3	1	1	0	0
Malta									
Poland	32	66	70	55	16	41	10	0	0
Romania	26	78	65	64	6	30	2	5	5
Slovenia	24	70	60	63	3	0	14	0	4
Slovakia	13	36	22	31	2	0	0	0	0

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

Table 8.6 Change in share of high educated*workers in employment by occupation in post and telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations	Total
EU	0	13	6	3	-3	1	2	2	4
EU 6									
EU 9									
EU 15	-1	12	4	3	-1	2	1	2	3
NMS	6	19	16	5	-12	-2	-2	2	10
Belgium	11	33	0	5	14	0	-8	0	10
Germany	-4	-5	-4	-1	-4	-3	-2	1	-3
France	5	13	6	4	15	0	8	-6	5
Italy	-17	15	5	3	-4	0	2	1	3
Luxembourg	0	51	1	-5	0	0	0	-7	6
Netherlands	11	0	8	4	4	5	-1	11	4
Denmark	15	-16	9	1	25	0	6	2	1
Ireland	12	-5	3	4	8	19	5	3	12
Greece	2	22	-4	2	0	10	15	0	6
Spain	-4	0	9	3	-3	-1	-4	32	3
Austria	-35	0	15	-2	13	-6	4	0	2
Portugal	-16	15	17	5	-62	0	0	0	6
Finland	23	-9	4	-6	-26	0	-1	-1	-1
Sweden	14	27	5	3	-1	0	-2	2	6
United Kingdom	-4	0	-5	6	-1	-5	2	3	0
Bulgaria	-5	6	6	7	5	2	0	15	9
Czech Replubic	11	2	22	1	6	0	-3	0	6
Estonia	-11	56	27	27		0			16
Cyprus									
Latvia	-44	41	29	4	-43		0	-41	2
Lithuania	-78	-39	-27	-32	-100	-76	15	0	-33
Hungary	11	12	14	0	-9	0	0	-5	4
Malta									
Poland									
Romania	40		17	4	-70		3	5	14
Slovenia	39	35	30	0	0	14	-12	4	14
Slovakia	3	8	-2	2	0	-4	0	0	3

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

9. Occupation and age

Table 9.1 Share of younger workers (15-39 years) in employment by occupation in post and telecommunications (NACE 64), 2006 (in %)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	48	44	44	50	47	69	43	47	48
EU 6	43	41	38	41	42	65	37	45	49
EU 9	52	43	49	56	57	74	43	47	48
EU 15	48	43	46	48	48	71	42	47	48
NMS	54	50	54	66	50	68	60	57	47
Belgium	44	9	49	72	43	32	65	51	49
Germany	43	39	32	44	43	70	38	49	49
France	40	52	42	33	41	58	12	33	59
Italy	39	25	46	39	35	80	36	38	44
Luxembourg	50	32	40	62	48	56	32	58	47
Netherlands	56	55	46	58	54	81	54	48	62
Denmark	59	44	30	63	57	100	26	77	86
Ireland	49	56	32	67	43	74	31	50	58
Greece	53	49	41	70	57	55	22	82	10
Spain	63	53	72	70	58	83	62	66	66
Austria	51	53	64	61	39	94	57	61	53
Portugal	65	60	58	50	71	82	56	54	71
Finland	51	42	51	50	48	54	40	61	65
Sweden	46	46	35	44	51	55	25	48	58
United Kingdom	48	41	36	49	65	69	41	40	45
Bulgaria	47	32	49	71	41	56	44	36	51
Czech Republic	54	49	55	60	49	52	91	61	45
Estonia	50	48	52	57	41	0	100	39	100
Cyprus									
Latvia	46	58	46	86	30	18		59	0
Lithuania	42	34	24	67	41	89	96	7	5
Hungary	56	52	62	58	56	59	52	45	53
Malta									
Poland	58	54	58	70	52	84	57	67	50
Romania	57	59	53	69	52	75	55	66	50
Slovenia	64	58	44	87	66	24	52	24	51
Slovakia	50	55	59	61	40	100	79	31	54

Source: Alphametries/Eurostat/TNO

Table 9.2 Change in share of younger workers (15-39 years) in employment by occupation in post and Telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations	Total
EU	-7	-1	-2	-2	0	-6	-10	-2	-3
EU 6	-9	-6	-6	-6	-2	-14	-11	-1	-6
EU 9	-12	-5	-10	3	0	-7	-12	-4	-4
EU 15	-10	-2	-6	-3	-1	-8	-11	-2	-4
NMS	6	2	14	-1	9	5	-1	-2	3
Belgium	-78	5	5	-8	-22	13	-4	20	-9
Germany	-15	-12	-12	-11	-2	-22	-15	-14	-12
France	6	7	-1	-1	-5	-9	-16	16	1
Italy	3	-3	-6	-5	7	-5	-2	1	-3
Luxembourg	-51	3	3	-9	56	15	-42	33	-2
Netherlands	-9	-22	-13	-6	14	2	-8	4	-7
Denmark	-12	-10	-8	-13	0	-23	7	22	-6
Ireland	0	-35	-7	-9	-1	-12	0	-13	-6
Greece	39	-2	10	10	-18	-9	0	-46	9
Spain	7	9	1	-5	0	-4	1	11	-1
Austria	-5	-14	16	-16	94	-3	-9	-12	-6
Portugal	-40	11	-22	7	20	26	41	71	8
Finland	5	0	-18	-2	-18	6	11	-4	-2
Sweden	25	1	-18	12	-28	5	-26	5	1
United Kingdom	-17	-24	-19	12	-4	-10	-16	0	-8
Bulgaria	-3	4	26	4	-1	-9	-10	10	5
Czech Republic	2	4	10	-2	-28	54	-14	-12	1
Estonia	11	-48	-25	-7		67			0
Cyprus									
Latvia	-9	-3	27	-17	18		13	-16	-3
Lithuania	-11	-10	47	-19	-11	46	-22	-82	-11
Hungary	-4	9	6	4	29	-11	-1	19	3
Malta									
Poland									
Romania	40		17	6	75		1	-6	6
Slovenia	-22	-18	23	-15	-55	-31	-30	12	-10
Slovakia	20	1	0	-18	26	36	-10	1	-2

Source: AlphametRICS/Eurostat/TNO

Table 9.3 Share of workers (40-49 years) in employment by occupation in post and telecommunications (NACE 64), 2006 in (%)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	30	35	33	30	31	17	29	28	24
EU 6	33	37	37	36	34	21	33	29	25
EU 9	27	35	30	28	24	13	25	29	24
EU 15	30	35	33	32	30	17	28	29	24
NMS	27	28	26	18	31	17	26	23	26
Belgium	31	61	30	19	31	59	16	16	20
Germany	34	40	38	36	35	15	39	28	24
France	33	30	36	36	35	25	0	30	16
Italy	36	39	40	39	36	11	28	40	29
Luxembourg	28	25	40	14	29	44	53	42	31
Netherlands	23	28	27	27	23	13	27	27	15
Denmark	23	37	41	23	21	0	55	23	10
Ireland	29	26	37	24	31	11	40	32	21
Greece	26	15	34	22	25	45	44	12	13
Spain	25	32	22	21	28	15	23	20	16
Austria	37	38	31	33	45	5	35	27	32
Portugal	20	32	32	36	13	5	12	46	0
Finland	24	40	12	26	24	0	33	30	12
Sweden	25	19	29	29	24	4	20	28	21
United Kingdom	27	36	33	32	18	13	23	32	25
Bulgaria	31	37	34	20	33	27	43	40	16
Czech Republic	22	25	25	17	25	31	1	20	24
Estonia	25	25	14	29	26	100	0	61	0
Cyprus									
Latvia	29	20	24	14	37	55		22	43
Lithuania	40	41	55	29	35	0	4	93	80
Hungary	25	29	20	22	26	21	30	30	33
Malta									
Poland	27	27	21	17	35	4	28	19	16
Romania	25	25	29	16	27	12	29	13	29
Slovenia	23	24	28	5	24	59	36	39	31
Slovakia	31	35	22	18	43	0	0	25	18

Source: Alphametrics/Eurostat/TNO

Table 9.4 Change in share of workers (40-49 years) in employment by occupation in post and telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations	Total
EU	3	-2	0	0	-2	-5	2	-1	-1
EU 6	6	-1	2	0	-6	0	0	-3	0
EU 9	5	1	7	0	2	-11	7	5	1
EU 15	5	-1	3	0	1	-7	2	0	0
NMS	-3	0	-11	-2	-13	2	-3	-5	-4
Belgium	49	-7	-5	-4	14	-32	-14	9	-1
Germany	17	0	7	3	-7	11	1	6	4
France	-8	-11	-3	-2	-11	-51	-1	-20	-5
Italy	-7	9	3	-2	-3	-7	-1	-6	-1
Luxembourg	8	-8	-7	1	-56	-30	42	-39	-6
Netherlands	4	13	6	-4	-15	-11	10	9	-1
Denmark	6	8	3	3	0	55	9	10	2
Ireland	1	17	8	6	-4	-3	3	3	2
Greece	-41	-8	-3	-10	18	-7	12	-17	-12
Spain	6	-10	2	4	1	-2	-7	-4	1
Austria	2	15	2	15	-76	11	14	32	10
Portugal	32	-9	28	-9	-33	-21	-4	0	-6
Finland	-2	2	6	-1	-28	-25	13	3	-2
Sweden	-12	3	12	1	-13	-32	20	-1	2
United Kingdom	7	13	9	-6	7	-15	9	2	2
Bulgaria	-4	0	-24	-9	-16	23	10	-9	-4
Czech Republic	2	4	-8	-2	31	-38	11	0	-2
Estonia	2	14	29	-19		-32			-6
Cyprus									
Latvia	3	-19	-8	4	-12		0	-12	-3
Lithuania	-13	-10	-50	17	0	-6	45	67	8
Hungary	4	-7	-17	-6	-37	5	-2	-14	-6
Malta									
Poland									
Romania	13		-11	-16	-88		-13	-10	-12
Slovenia	4	19	-21	14	38	26	0	12	7
Slovakia	-10	0	1	12	0	-32	10	-13	3

Source: Alphametrics/Eurostat/TNO

Table 9.5 Share of older workers (50+ years) in employment by occupation in post and telecommunications, 2006 (in %)

	Total	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations
EU	22	22	23	20	22	14	28	25	27
EU 6	24	22	25	23	24	13	30	26	26
EU 9	22	22	21	16	19	13	32	23	28
EU 15	23	22	21	20	22	12	30	25	27
NMS	19	21	20	16	19	16	14	20	28
Belgium	24	30	21	9	27	9	19	33	31
Germany	23	21	30	19	22	15	23	23	27
France	27	18	22	31	24	17	88	37	25
Italy	26	36	14	22	29	9	36	22	26
Luxembourg	22	43	20	24	23	0	15	0	21
Netherlands	20	18	27	14	23	6	20	25	23
Denmark	18	19	29	15	22	0	19	0	4
Ireland	22	18	30	9	26	14	29	18	21
Greece	20	35	25	8	18	0	34	6	78
Spain	12	15	6	9	14	3	15	14	18
Austria	11	8	4	6	16	1	8	12	15
Portugal	15	9	10	15	16	13	33	0	29
Finland	26	18	36	24	28	46	27	9	23
Sweden	29	35	36	27	25	41	54	24	20
United Kingdom	25	23	30	19	17	17	37	28	30
Bulgaria	22	31	17	9	27	17	13	24	33
Czech Republic	24	27	20	23	26	17	8	19	32
Estonia	25	27	34	14	33	0	0	0	0
Cyprus									
Latvia	25	23	30	0	33	27		20	57
Lithuania	19	25	21	4	24	11	0	0	15
Hungary	19	19	18	21	17	20	17	25	14
Malta									
Poland	15	19	21	14	13	12	15	14	34
Romania	19	16	18	15	21	13	16	21	20
Slovenia	13	18	28	8	10	17	12	37	18
Slovakia	19	10	20	22	17	0	21	43	28

Source: Alphametrics/Eurostat/TNO

Table 9.6 Change in share of older workers (50+ years) in employment by occupation in post and telecommunications (NACE 64), 2000-2006 (in %)

	Managers	Engineers	Other professionals	Clerks	Service workers	Electronic equipment mechanics	Craft workers, plant operators, drivers	Elementary occupations	Total
EU	4	2	2	3	2	12	8	3	4
EU 6	4	7	3	6	8	14	11	4	6
EU 9	7	4	3	-2	-1	18	5	-1	3
EU 15	5	3	3	3	1	16	9	2	4
NMS	-3	-2	-3	3	5	-6	3	7	1
Belgium	30	2	0	12	9	19	17	-28	10
Germany	-2	12	5	7	8	11	14	8	8
France	2	4	4	3	17	60	18	4	4
Italy	3	-6	3	7	-4	12	2	5	4
Luxembourg	43	5	4	8	0	15	0	5	8
Netherlands	6	9	7	10	1	9	-2	-14	7
Denmark	6	2	4	10	0	-32	-16	-32	3
Ireland	-1	18	-1	3	5	14	-3	10	4
Greece	2	10	-7	0	0	16	-12	63	3
Spain	-14	1	-3	1	-1	7	5	-7	0
Austria	3	-1	-17	1	-17	-7	-4	-20	-4
Portugal	9	-2	-6	3	13	-5	-37	-71	-2
Finland	-3	-2	12	3	46	19	-24	2	5
Sweden	-13	-4	6	-14	41	27	7	-3	-3
United Kingdom	10	11	10	-6	-3	24	8	-2	6
Bulgaria	7	-4	-2	5	17	-14	0	-1	-1
Czech Republic	-4	-8	-2	4	-3	-16	3	12	1
Estonia	-14	34	-4	27		-35			5
Cyprus									
Latvia	7	22	-19	13	-6		-13	28	5
Lithuania	25	21	4	2	11	-40	-23	15	3
Hungary	0	-2	11	2	8	6	3	-5	3
Malta									
Poland									
Romania	-54		-5	10	13		12	15	6
Slovenia	18	0	-3	2	17	5	30	-24	3
Slovakia	-10	-1	-1	5	-26	-4	0	13	-1

Source: Alphametrix/Eurostat/TNO