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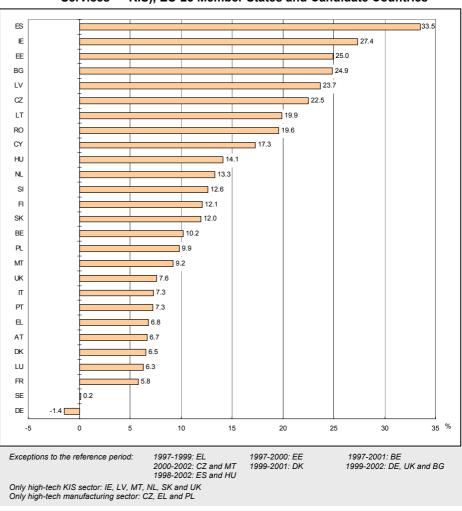


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# High Technology: Enterprises and trade

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Figure 1: Annual Average Growth Rate (AAGR) 1997-2002 of value added in High Technology sectors (manufacturing and Knowledge-Intensive Services — KIS), EU-25 Member States and Candidate Countries



#### Main findings

- In 2002 in the EU-25, the manufacturing sector counted 2.2 million enterprises. Among these, 137 000 were high technology manufacturers and 277 000 were medium high technology manufacturers.
- In 2002, an enterprise from the high technology sector generated a greater production value (4.4 million EUR) than an average enterprise of the total manufacturing sector (2.5 million EUR).
- Moreover, in the EU-25 in 2002, the labour productivity per person employed in the high-tech manufacturing sector was 63 000 EUR, which was higher than the total manufacturing sector (45 000 EUR).
- Investment in machinery and equipment was highest in the medium high-tech manufacturing sector, with 244 000 EUR invested per enterprise.
- Among EU Member States, Malta had the highest share of high-tech exports, accounting for 55.9% of its total exports in 2004. In 2002, it was also the country where investments and the production value per enterprise in the high-tech manufacturing sector were the highest.

# A quarter of European high-tech manufacturers in Italy, more than a quarter of European high-tech KIS in the United Kingdom

In 2002, the EU-25 was home to more than 2 million enterprises in the manufacturing sector — See Table 1.

With 549 000 enterprises, or approximately one quarter of the EU-25 total, Italy had the highest number of enterprises in the manufacturing sector. France (248 000) came in second position, before Spain (222 000) and Poland (210 000).

Among the 2.2 million enterprises in the manufacturing sector, 136 000 were classified as 'high-technology' and 277 000 as 'medium high-technology'. At the national level, the leading country was again Italy with 35 000 high-tech and 71 000 medium high-tech enterprises.

With 19 000 high-tech enterprises in Germany, this number represented almost 10% of the country's total manufacturers. In Poland, 15 000 of its total manufacturers were high-tech (i.e. more than 7%). By contrast, the countries with the smallest number of high-tech enterprises were Greece (101), Cyprus (80) and Luxembourg (63).

In the medium high-tech manufacturing sector, Germany and the Czech Republic, with respectively 29 000 and

27 000 enterprises, were the leading European countries after Italy (71 000).

In 2002 in the EU, there were more than 500 000 enterprises in the high-technology Knowledge-Intensive Services (KIS) sector.

Among Member States, the United Kingdom had the highest number, with 143 000 such enterprises, followed by Italy (98 000), Germany (53 000) and France (46 000). In fact, these four countries accounted for about two thirds of the EU-25 total. At the other end of the scale came Greece, Cyprus, Latvia and Malta which had fewer than 1 000 enterprises.

In the market KIS sector, the leading countries were Italy, France, Spain and United Kingdom, with 818 000, 442 000, 436 000 and 426 000 enterprises respectively.

In the EU-25 in 2002, 6.7 million enterprises were recorded as market enterprises in services without being knowledge-intensive (market less KIS). Among them, 1.7 million were in Italy and almost 1.3 million in Spain.

Table 1: Total number of enterprises, for the manufacturing sectors and services sectors, EU-25 Member States and Candidate Countries, 2002

	Manufacturing					Services			
Country	Total	High Technology	Medium High Technology	Medium Low Technology	Low Technology	High Tech KIS	Market KIS	Market less KIS	
EU-25	2 179 030 s	136 743 S	277 445 s	563 240 s	1 201 604 s	517 408 S	3 612 556 s	6 700 666 s	
EU-15	1 682 707 s	103 914 S	212 965 s	434 710 s	931 120 s	466 921 S	3 218 656 s	6 013 086 s	
BE	37 965	1 922	3 884	9 215	22 946	11 014	82 196	193 333	
CZ	159 207	9 014	26 905	47 533	75 755	18 833	182 389	288 243	
DK	19 235	1 114	3 779	5 857	8 485	8 013	53 167	75 425	
DE	196 702	19 346	29 257	56 655	91 444	52 816	499 587	642 058	
EE	4 398	215	357	927	2 899	826	6 889	16 182	
EL	4 651	101	564	1 125	2 861	:	:	•	
ES	222 291	7 703	23 293	61 858	129 437	32 340	436 132	1 262 083	
FR	248 349	16 188	25 941	46 880	159 340	45 939	442 297	927 673	
IE IT	4 932	•	760	:	2 556	4 420	:	•	
IT	549 388	34 651	70 960	145 343	298 434	97 873	817 786	1 714 182	
CY	6 297	80	432	1 587	4 198	231	3 032	29 937	
LV	4 951	190	406	739	3 616	912	13 216	4 875	
LT	9 483	363	654	1 739	6 727	1 281	7 475	34 685	
LU	984	63	95	289	537	1 095	6 676	10 340	
HU	73 005	6 106	10 285	16 551	40 063	23 855	152 702	241 197	
MT	3 792	:	:	914	2 588	684	6 731	17 999	
NL	46 435	3 130	6 755	11 880	24 670	22 225	119 365	217 215	
AT	27 572	1 643	3 246	5 892	16 791	12 080	52 831	132 163	
PL	210 200	15 398	21 278	:	:	:	:	:	
PT	78 789	1 154	5 774	20 586	51 275	2 932	58 630	309 304	
SI	19 381	993	:	:	9 059	2 792	15 933	40 742	
sĸ	5 609	:	1 071	:	:	1 073	5 533	13 720	
FI	25 799	1 299	4 639	6 836	13 025	4 960	40 307	80 806	
SE	54 616	3 359	8 027	15 117	28 113	28 200	156 916	169 100	
UK	164 999	11 866	25 991	45 936	81 206	143 014	425 819	185 458	
BG	25 689	1 200	:	5 012	:	3 238	19 034	165 644	
RO	46 517	1 348	3 284	8 205	33 680	7 200	25 083	207 416	

Exceptions to the reference year:

2001: BE and LV; manufacturing sectors in UK; services sectors in CZ.

1999: manufacturing sectors in EL



# Production value generally higher for high-tech manufacturers

Figure 2 shows the production value per enterprise for both the total manufacturing sector and the high-tech manufacturing sector.

Within the EU-25 in 2002, an enterprise in the total manufacturing sector typically generated a production value of 2.5 million EUR, whereas an enterprise in high-tech manufacturing averaged 4.4 million EUR. For the EU-15, these values were respectively 3.3 and 5.5 million EUR.

This means that an enterprise in the high-tech sector generated a higher production value than an average enterprise of the total manufacturing sector.

This trend applied for all EU-25 Member States except for Germany, Latvia, Luxembourg, Poland and Slovakia, largely depending on the industrial structure of the respective country. In Luxembourg the production value per enterprise in the high-tech manufacturing sector was about 2.8 million EUR, i.e. less than half the production value per enterprise in the total manufacturing sector (7.4 million).

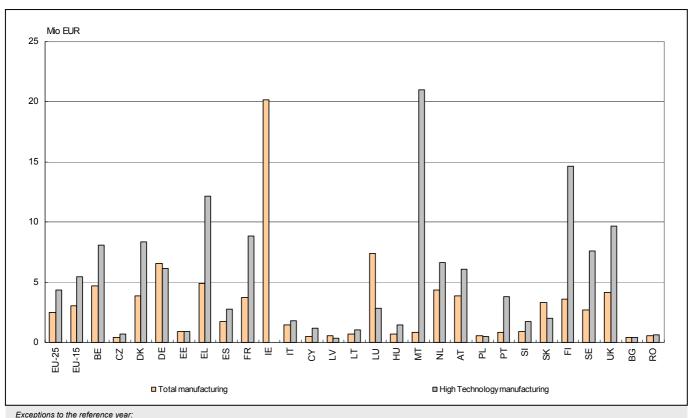
Except for Spain, Italy and Portugal, the production value per enterprise was higher for all EU-15 Member States, when compared with the EU-25 average (2.5 million EUR). It was also higher in Slovakia with 3.3 million EUR.

Consequently, in the new Member States (except in Slovakia) as well as in the Candidate Countries, the production value per enterprise for the total manufacturing sector was lower than the EU-25 average.

Almost the same situation occurs in the high-tech manufacturing sector. Apart from Malta — where the production value per enterprise was the highest (21 million EUR) — all the new Member States as well as the Candidate Countries were below the European average (4.4 million EUR). The production value was also lower than the European average in Spain (2.8), Italy (1.8), Portugal (3.8) and Luxembourg (2.8).

After Malta (21 million EUR), Finland (14.7) and Greece (12.2) were the countries with the highest production values per enterprise in the high-tech manufacturing sector.

Figure 2: Production value per enterprise (million EUR per enterprise) for the total manufacturing sector and for the high technology manufacturing sector, EU-25 Member States and Candidate Countries, 2002



Exceptions to the reference year:
2001: BE and UK; DK and SK in high-tech manufacturing sector
1999: LV

1997: NL in high-tech manufacturing sector

EU-25 and EU-15: Eurostat estimates

2000: MT; EE in high-tech manufacturing

1998: EL



## Value-added: New Member States caught up in the high-tech sector

In 2002, the total manufacturing sector of the European Union generated a value-added of more than 1 500 billion EUR. Accounting for more than 25 % of the EU value-added, Germany was clearly in first position, followed by the United Kingdom, France and Italy (see Table 2).

In relative terms, labour productivity per person employed reached 45 000 EUR in the EU-25, but this average hides discrepancies between Member States. Indeed, the highest labour productivity per person employed attained 149 000 EUR in Ireland, whereas it did not exceed 10 000 EUR in Estonia and Lithuania.

In the high-tech manufacturing sector, labour productivity was 63 000 EUR for EU-25, which was higher than the total manufacturing sector; a trend that was true for all EU-25 Member States except Estonia, Luxembourg and Slovakia.

Still in the high-tech manufacturing sector, Finland and Belgium had the highest labour productivity (of more than 100 000 EUR), followed by Denmark (87), the United Kingdom (78) and Malta (72) respectively.

In the medium high-tech manufacturing sector, the production value of the EU-25 was 53 000 EUR. This figure exceeded 300 000 EUR in Ireland, whereas for all the other Member States it was below 80 000 EUR.

In absolute terms, the high-tech KIS sector of the EU-25 created a value-added of 364 billion EUR in 2002. The United Kingdom generated the highest amount, with almost 91 billion EUR, before Germany (72 billion EUR) and France (54 billion EUR).

In relative terms, labour productivity per person employed in the high-tech KIS sector reached 65 000 EUR in the EU-25. The top two countries in the EU were Ireland and Luxembourg with 136 and 115 thousand EUR respectively per person employed.

Cyprus was the only new Member State to have a production value higher than the EU-25 average. Denmark, Spain, France, Finland and Sweden, as well as all the other new Member States and Candidate Countries, had a production value below the EU-25 average.

As shown in Figure 1, the value-added generated by the high-tech sectors (high-tech manufacturing and high-tech KIS) increased in all countries between 1997 and 2002, except in Germany. It increased most in Spain with an AAGR of 33.5% and in Ireland (27.4%).

New Member States or Candidate Countries are closing their gap in the high-tech domain. Indeed, eight of them were among the top ten countries having the highest AAGR. Furthermore, all of them had an AAGR greater than or equal to 9.2 % (Malta).

Table 2: Value-added (in million EUR) and labour productivity (in '000 EUR per person employed), for the manufacturing sectors and the services sectors, EU-25 Member States and Candidate Countries, 2002

	Manufacturing						Services			
	Total		High Technology		Medium High Technology		High Technology KIS		market KIS	
Country	Value	Labour	Value	Labour	Value	Labour	Value	Labour	Value	Labour
,	added	Product.	added	Product.	added	Product.	added	Product.	added	Product.
EU-25	1 533 907 s	45 s	195 521 s	63 s	476 155 s	53 s	363 823 s	65 s	834 462 s	46 s
EU-15	1 450 220 s	52 s	188 463 s	70 s	456 113 s	59 s	355 107 s	68 s	823 151 s	48 s
BE	44 271 (1)	65 (1)	5 761 (1)	104 (1)	13 652 (1)	76 (1)	9 261 (1)	67 (1)	18 526 (1)	44 (1)
CZ	18 120	13	1 316	15	5 885	14	2 701 (1)	23 (1)	3 099 (1)	9 (1)
DK	25 495	56	3 915 (1)	87 (1)	6 221	55	6 502	65	21 725	75
DE	401 497	55	43 734	63	177 389	62	71 669	68	194 638	56
EE	1 136	9	64 (2)	7 (2)	106 (2)	11 (2)	285	24	532	12
EL	8 371 (3)	34 (3)	519 (3)	37 (3)	1 203 (3)	34 (3)	:	:	:	:
ES	109 038	41	6 279	52	27 661	49	23 857	64	62 503	33
FR	207 984	52	35 419	68	57 687	58	53 966	59 (1)	127 401	48 (1)
IE	35 989	149	:	:	14 902	333	7 394	136	:	:
IT	203 014	42	19 340	56	53 925	47	42 982	65	69 250	34
CY	960	26	37	34	76	25	429	82	630	36
LV	1 635 (1)	11 (1)	:	:	140 (1)	9 (1)	491	21	479	8
LT	1 540	6	125	9	:	:	422	20	440	9
LU	2 309	67	75	37	301	64	1 211	115	2 063	48
HU	12 320	14	1 744	19	3 866	18	2 805	22	3 564	9
MT	808	25	354 (2)	72 (2)	58 (2)	26 (2)	230	49	557	37
NL	54 467	64	:	:	14 829	:	20 045	73	51 766	43
AT	37 516	59	3 706	69	10 637	67	6 973	65	17 794	61
PL	38 673	16	2 498	19	7 498	16	:	:	:	:
PT	18 208	20	1 065	39	3 280	27	4 053	74	7 070	22
SI	4 478	17	622	29	:	:	507	23	976	19
sĸ	4 018	10	207 (1)	9 (1)	1 236	10	846	18	1 035	15
FI	29 655	69	7 034	127	5 736	57	4 735	57	8 804	53
SE	43 364	55	6 518	62	:	:	11 506	54	26 926	54
UK	229 042 (1)	59 (1)	38 136 (1)	78 (1)	54 947 (1)	58 (1)	90 951	73	208 946	55
BG	1 795	3	146	6	398 (1)	3 (1)	783	12	321	3
RO	6 620	4	320	7	1 558	4	1 583	11	1 111	6

Exceptions to the reference year:

(1) 2001 (2) 2000

(3) 1999



## Investments more significant in the medium high-tech manufacturing sector

As shown in Table 3, the gross investment in machinery and equipment in the manufacturing sector amounted to almost 182 billion EUR in the EU-25 in 2002.

Germany was the country with the highest investment (close to 46 billion EUR). It was followed by France, Italy and the United Kingdom with around 25 billion EUR each.

In relative terms, Ireland, Greece and Germany were the countries investing most, with respectively 481 000, 246 000 and 233 000 EUR invested per enterprise.

If the high-tech manufacturing sector is taken into account, investment in machinery and equipment per enterprise reached 163 000 EUR in the EU-25, which was higher than the investment per enterprise in the total manufacturing sector (92 000 EUR). Malta was in first position with investment of 1.9 million EUR per enterprise. More than 70% of the Maltese total acquisitions of machinery and

equipment (226 million EUR) were done in the high-tech manufacturing sector.

In absolute terms, Germany and the United Kingdom invested the largest amounts in the high-tech sector, with 5 and 4 billion EUR respectively.

At EU-25 level, investments in machinery and equipment were higher in the medium high-tech manufacturing, where an average of 244 000 EUR per enterprise was spent. Enterprises investing the highest amounts are found in Ireland (964 000), Germany (755 000) and Belgium (586 000).

In absolute terms, most of the investments in the medium high-tech manufacturing sector were made by Germany with 22 billion EUR. In other terms, half of its total investment in machinery and equipment was devoted to the medium high-tech sector.

Table 3: Gross investments in machinery and equipment for the manufacturing sectors, Total (in million EUR) and per enterprise ('000 EUR), EU-25 Member States and Candidate Countries, 2002.

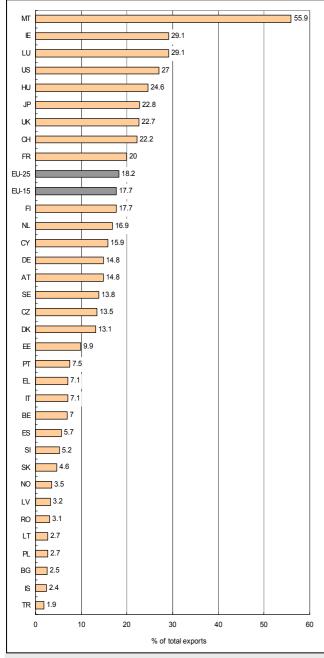
LO-25 Member States and Candidate Countries, 2002.							
		Γotal	High Ted		Medium High Technology		
		facturing	manufa		manufa	<u> </u>	
Country	Total	Per enterprise	Total	Per enterprise	Total	Per enterprise	
_	(mio EUR)	(1000s EUR)	(mio EUR)	(1000s EUR)	(mio EUR)	(1000s EUR)	
EU-25	181 923		:	163 s	:	244 s	
EU-15	172 899		:	182 s	:	280 s	
BE	7 047 (1		535 (1)	278 (1)	2 277 (1)	586 (1)	
CZ	2 915	18	178	20	1 285	48	
DK	2 905	151	439 (1)	387 (1)		144	
DE	45 825	233	5 051	261	22 097	755	
EE	161	37	6 (2)	29 (2)	12 (2)	31 (2)	
EL	1 144 (4		44 (4)	433 (4)	140 (4)	248 (4)	
ES	15 267	69	871	113	4 738	203	
FR	24 623 (3	3) 98 (3)	3 485 (3)	208 (3)	7 851 (3)	299 (3)	
IE	2 375	481	:	:	733	964	
IT	26 096	47	1 893	55	6 511	92	
CY	136	22	5	58	6	14	
LV	242 (2	2) 48 (2)	3 (3)	14 (3)	18 (2)	42 (2)	
LT	187	20	8	22	:	:	
LU	:	:	:	:	:	:	
HU	2 469	34	402	66	892	87	
MT	226 (2	2) 60 (2)	167 (2)	1 855 (2)	9 (2)	54 (2)	
NL	6 298 (3	3) 136 (3)	552 (3)	193 (3)	2 030 (3)	320 (3)	
AT	4 465	162	497	303	1 101	339	
PL	:	:	:	:	:	:	
PT	3 392	43	161	139	590	102	
SI	681	35	81	81	:	:	
SK	863	154	32 (1)	78 (1)	323	302	
FI	3 238	125	386	297	555	120	
SE	5 168	95	639	190	:	:	
UK	25 821 (1	1) 156 (1)	4 370 (1)	368 (1)	8 048 (1)	310 (1)	
BG	474 (2	2) 19 (2)	13 (2)	12 (2)	79 (2)	27 (2)	
RO	1 910	41	71	52	386	117	

Exceptions to the reference year: (1) 2001 (2) 2000 (3) 1999 (4) 1998



## More important share of high-tech exports in Malta and Ireland

Figure 3: High-tech exports as % of total exports<sup>(1)</sup>, EU-25 Member States, Candidate Countries, Iceland, Norway, Switzerland, United States and Japan - 2004



Exceptions to the reference year

(1) External trade statistics cover both extra- and intra-EU trade except for EU aggregates which doesn't include intra-EU trade

Comparing the EU with the United States and Japan, the share of high-tech exports in the EU (18.2%), as a percentage of total exports, was lower than in Japan (22.8%) and the United States (27%).

Among EU countries, Malta, with 55.9% of its total exports, had the highest share of high-tech exports. Ireland and Luxembourg followed, both at 29.1%. With regard to Malta and Ireland, this observation is not that surprising since they were the countries where investments in machinery and equipment were the highest.

On the other hand, the share of high-tech exports in Italy did not reach 10%, whereas it accounted for a quarter of EU-25 high-tech manufacturers in 2002.

The same can be said for Germany which, in absolute terms, was the country with the highest amount of investment and the highest value-added in the high-tech manufacturing sector in 2002, but which had a lower share of high-tech exports (14.8%) than the EU average (18.2%).

In 2004, only seven countries had a share of high-tech exports higher than the European average, namely Malta, Ireland, Luxembourg, Hungary, the United Kingdom, France and Switzerland. Apart from Malta (55.9 %), all of them had a share of between 20 % and 30 %.

Beside Malta, two other new Member States display a share of high-tech exports greater than 10% in 2004: Cyprus (15.9%) and the Czech Republic (13.5 %). As was the case for Luxembourg, this share is quite unexpected for Cyprus since the number of high-tech manufacturers was very low.

Estonia came fourth place among the new Member States and Candidate Countries with a proportion of high-tech exports of 9.9%.

Southern European countries (Greece, Spain, Italy and Portugal), as well as Belgium had quite a low proportion of high-tech exports, ranging from 5.7% (Spain) to 7.5 % (Portugal).

Finally, those countries with a proportion of high-tech exports lower than or equal to 5.2 % (Slovenia) included New Member States, Candidate Countries, Iceland and Norway.



#### ESSENTIAL INFORMATION – METHODOLOGICAL NOTES

#### Sources

Data in this present Statistics in Focus (SIF) are based on the Structural Business Statistics (SBS) and the COMEXT/UN Comtrade databases. The first source was used to extract information related to high-tech industries and knowledge-intensive services. COMEXT was used for trade data.

#### **Definitions**

#### Structural Business Statistics (SBS):

Collected within the framework of Council regulation on structural business statistics. This Regulation governs the transmission of data to Eurostat from the reference year 1995 onwards. In principle, it covers all market activities in section C to K and M to O of the NACE Rev.1, but, in practice, the data available are confined to sections C to K, excluding section J (financial services). For further methodological notes, see the methodology document for "SBS" on NewCronos:

#### http://europa.eu.int/estatref/info/sdds/en/hitech/sbs.pdf

#### NACE

The data in this publication are based on the statistical classification of economic activities in the European Community, NACE Rev.1.1.

Value added at factor cost is the gross income from operating activities after adjusting for operating subsidies and indirect taxes.

Labour productivity refers to the value added at factor costs per person employed.

Production value is the value of what was produced by the unit during the reference year.

Gross investments in machinery and equipment is the investments in all in machinery and equipment goods during the reference period.

The high values of the Irish data for value added, labour productivity, production value, etc. show the extent to which foreign ownership of enterprises, outsourcing of activities and accounting practices of multinational enterprises influence the data.

#### COMEXT

Eurostat's reference database on external trade statistics. Data for countries are broken down by detailed product group and aggregated according to the high-tech classification of those industries these products are originating from.

High-tech trade covers exports of those products whose production has involved a high intensity of R&D (For a full list of these products, see also p. 357 of the EU Commission DG Research's 'Third European Report on Science and Technology Indicators').

For more details see the methodology document for "COMEXT" on NewCronos:

http://europa.eu.int/estatref/info/sdds/en/extrade/extrade base.htm

#### **General abbreviations**

Annual average growth rate in %; AAGR: KIS Knowledge-intensive services;

Eurostat estimate; s not available.

#### Geographical coverage

EU-25 Member States, Candidate Countries, Iceland, Norway, Switzerland, United States and Japan.

#### High-tech classification of manufacturing industries

Eurostat and OECD use the following breakdown of the manufacturing industry according to global technological intensity and based on NACE rev 1 1 at 3-digit level

rev. 1.1 at 3-digit level:	
High-technology	NACE Rev. 1.1 codes:  24.4 Manufacture of pharmaceuticals, medicinal chemicals and botanical products;  30 Manufacture of office machinery and computers;  32 Manufacture of radio, television and communication equipment and apparatus;  33 Manufacture of medical, precision and optical instruments, watches and clocks.  35.3 Manufacture of aircraft and spacecraft
Medium-high- technology	NACE Rev. 1.1 codes:  24 Manufacture of chemicals and chemical product, excluding 24.4 Manufacture of pharmaceuticals, medicinal chemicals and botanical products;  29 Manufacture of machinery and equipment n.e.c.; 31 Manufacture of electrical machinery and apparatus n.e.c.; 34 Manufacture of motor vehicles, trailers and semi-trailers; 35 Manufacture of other transport equipment, excluding 35.1 Building and repairing of ships and boats and 35.3 Manufacture of aircraft and spacecraft.
Medium-low- technology	NACE Rev. 1.1 codes: 23 Manufacture of coke, refined petroleum products and nuclear fuel; 25 to 28 Manufacture of rubber and plastic products; basic metals and fabricated metal products; other non-metallic mineral products; 35.1 Building and repairing of ships and boats.
Low-technology	NACE Rev. 1.1 codes:  15 to 22 Manufacture of food products, beverages and tobacco; textiles and textile products; leather and leather products; wood and wood products; pulp, paper and paper products, publishing and printing;  36 to 37 Manufacturing n.e.c.
	nowledge-intensive services uring, Eurostat defines the following sectors as

knowledge-Intensive Services — KIS:				
<u> </u>	NACE Rev. 1.1 codes:			
High-technology KIS	<b>64</b> Post and telecommunications;			
mgm toomiology rac	72 Computer and related activities;			
	73 Research and development.			
	NACE Rev. 1.1 codes:			
Market KIS	61 Water transport;			
(excl. financial	<b>62</b> Air transport;			
intermediation and	70 Real estate activities;			
high-tech KIS)	71 Renting of machinery and equipment without			
g too re,	operator and of personal and household goods;			
	74 Other business activities.			
	NACE Rev. 1.1 codes:			
	<b>50 to 52</b> Wholesale and retail trade; repair of motor			
	vehicles, motorcycles and personal and household			
Market less KIS	goods;			
	55 Hotels and restaurants;			
	<b>60</b> Land transport; transport via pipelines;			
	<b>63</b> Supporting and auxiliary transport activities;			
	activities of travel agencies.			

Data presented in this Statistics in Focus shows the data availability in Eurostat's reference database as of August 2005.



# Further information:

#### **Databases**

EUROSTAT Website/Science and technology/High tech industry and knowledge based services/High-tech industries and knowledge-intensive services: economic statistics/High tech industries and knowledge based services: economic statistics at national level/Economic statistics on high-tech industries and Knowledge Intensive Services

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# **European Statistical Data Support:**

Eurostat set up with the members of the 'European statistical system' a network of support centres, which will exist in nearly all Member States as well as in some EFTA countries.

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