Statistics

in focus

SCIENCE AND TECHNOLOGY

7/2004

Author Simona Frank

Contents

In 2002, Île de France (FR) led in absolute terms and Noord-Brabant (NL) as a proportion of population 2

In high tech patenting, Noord-Brabant (NL) led both in absolute terms and as a proportion of population in 20025



Manuscript completed on: 27.05.2004 ISSN 1609-5995 Catalogue number: KS-NS-04-007-EN-N © European Communities, 2004

Patent applications to the EPO from the EU regions 1997 to 2002

Patenting in EU-15 is highly concentrated in a few regions

Figure 1: Patent applications to the EPO per million inhabitants in the EEA-18 National averages and regional extremes at NUTS 2 level in 2002 $\binom{l}{l}$



(1) 2002: provisional data;

(2)

2002 population data for all regions — with the exception of those in Norway: Eurostat estimations; The following new NUTS 2 regions (NUTS 2003) are excluded from the table because population data is not available: Brandenburg-Nordost (DE), Brandenburg-Südwest (DE), Pohjois-Suomi (FI), Länsi-Suomi (FI), Etelä-Suomi (FI), Provincia Autonoma Bolzano/Bozen (IT), Provincia Autonoma Trento (IT), Centro (PT), Lisboa (PT).

- For EL, ES and PT, there was more than one region
- with zero patent applications per million inhabitants in 2002:
- EL: Dytiki Makedonia, Ionia Nisia, Voreio Aigaio;

ES: Ciudad Autónoma de Ceuta and Ciudad Autónoma de Melilla;

- PT: Alentejo and Regio Autónoma dos Açores.
- In 2002, the EU-15 region that applied for most patents to the EPO was Île de France (3 467). However, in relative terms, Noord-Brabant (NL) was ahead (1 084 patent applications per million inhabitants).
- Out of 213 regions at the NUTS 2 level, 50% of the total patent applications to the EPO were applied for by inventors from 20 regions.
- Concerning patent applications in high tech fields, with 1 201 applications, which corresponded to 502 per million inhabitants, Noord-Brabant (NL) led both in absolute and relative terms.
- In the high tech fields, 13 regions accounted for 50% of the total high tech patent applications to the EPO from the EU-15.

In 2002, Île de France (FR) led in absolute terms and Noord-Brabant (NL) as a proportion of population

Figure 1 shows the regional distribution of patent applications per million inhabitants in the EU-15, by mapping the national averages and the regional extremes at the NUTS 2 level. In 2002, 8 EU-15 countries had at least one region above the EU-15 average (158). Germany and the Netherlands are the countries with the greatest regional disparities. In the Netherlands, the highest region registered 1 084 patent applications per million inhabitants (Noord-Brabant) and the lowest only 54 (Zeeland).

Regional disparities are noticeable not only among regions of each country, but also across Member States of the EU. The top three patenting regions of each Member State in absolute terms in 2002 are listed in Table 1. It can be seen that German regions lead in absolute terms, as even the third region in this country is above the top regions of the rest of the Member States - with the exception of the French capital region of Île de France (FR) and the Dutch region of Noord-Brabant.

		Total	Per million	% of FU- 15		Dis	stributior	n by IPC	section	in % (3)	
Country	NUTS 2 region	number	(2)	total	A		С	D	E	F	G	Н
EU-15		60 158	158	100.0	15.8	18.9	14.1	1.9	4.1	10.0	17.0	18.1
	Prov. Antw erpen	341	207	0.6	11.1	20.6	20.2	0.1	2.0	6.1	22.3	17.6
BE	Prov. Vlaams-Brabant	232	226	0.4	14.5	10.9	34.0	2.6	2.7	4.1	11.9	19.2
	Région de Bruxelles-Capitale	168	173	0.3	16.9	13.3	35.6	3.7	3.4	4.0	12.0	10.9
DK	Denmark	1 153	215	1.9	27.1	13.1	18.3	0.9	4.2	8.2	14.2	14.0
	Oberbayern	3 034	741	5.0	8.1	17.5	9.1	0.9	2.3	10.2	21.7	30.2
DE	Stuttgart	2 952	749	4.9	3.6	27.8	2.4	2.7	3.0	28.6	15.1	16.8
	Düsseldorf	1 662	316	2.8	14.7	20.8	28.9	3.7	5.2	10.1	7.5	9.1
	Attiki	52	13	0.1	30.3	13.3	11.4	0.0	7.7	8.9	17.3	11.2
EL	Kentriki Makedonia	16	9	0.0	31.1	19.7	13.1	0.0	0.0	6.1	11.6	18.3
	Kriti	8	14	0.0	58.8	0.0	5.9	0.0	0.0	11.8	11.8	11.8
	Cataluña	384	62	0.6	24.2	29.7	12.3	1.8	5.4	5.1	8.7	12.9
ES	Comunidad de Madrid	224	43	0.4	22.8	10.1	20.6	0.2	2.9	3.8	17.0	22.5
	Comunidad Valenciana	101	25	0.2	19.6	23.4	17.0	1.6	9.4	5.1	10.0	13.9
	le de France	3 467	313	5.8	19.3	14.8	12.4	0.3	3.1	10.1	18.7	21.4
FR	Rhône-Alpes	1 480	258	2.5	18.6	15.2	17.1	2.7	3.5	6.5	19.0	17.3
	Provence-Alpes-Côte d'Azur	512	112	0.9	14.6	12.9	12.8	0.4	2.1	4.2	32.6	20.5
IE	Southern and Eastern	287	101	0.5	22.3	8.5	10.1	0.0	3.7	3.1	26.3	26.1
	Border, Midland & Western	61	60	0.1	56.9	18.8	0.0	1.6	11.2	6.5	1.6	3.3
	Lombardia	1 391	152	2.3	20.7	20.8	13.3	5.1	5.1	8.9	10.4	15.8
11	Emilia-Romagna	/10	1//	1.2	24.2	42.0	8.7	0.8	4.2	9.6	7.4	3.1
	Veneto	542	119	0.9	29.4	25.1	10.5	4.4	6.5	9.8	5.5	8.8
LU	Luxembourg	89	201	0.1	3.3	33.5	22.7	3.5	3.0	19.7	7.6	6.7
	Noord-Brabant	2 593	1 084	4.3	6.0	3.6	3.2	0.4	0.7	2.2	38.2	45.8
NL		536	156	0.9	26.0	14.9	24.1	1.1	8.0	4.3	11.7	9.8
	Noord-Holland	329	129	0.5	20.4	22.7	29.2	0.0	3.6	4.0	11.6	8.5
	Oberosterreich	289	209	0.5	9.6	30.7	13.4	5.8	10.6	12.5	9.7	1.1
AI	wien	272	168	0.5	20.3	15.1	17.0	1.3	5.4	4.1	13.8	23.0
	Stelermark	208	173	0.3	5.2	20.7	13.5	2.9	8.1	13.2	15.7	20.7
рт	LISDOA	12		0.0	10.5	21.8	20.9	0.0	4.0	14.9	9.2	0.2
PI	Norte	13	4	0.0	12.0	15.0	25.3	3.8	1.0	22.8	10.1	17.9
	Centro (P)	1		0.0	4.0	10.3	1.5	0.0	40.3	0.0	14.9	17.9
		900	•	1.0	9.5	12.5	9.9	10.5	3.0	5.5	17.5	30.4 27.7
ГІ	Pobiois Suomi	410	•	0.7	0.5	8.6	9.2	10.5	4.0	0.0	23.5	56.2
	Stockholm	827	452	0.3	4.0	0.0 8.0	6.4	1.5	0.8	5.5	20.3	36.0
еE	Västavorias	5021	402	1.4	24.5	22.1	7.5	1.0	2.1	1/1	10.5	12.2
3E	Sydeverige	582	JZ0 454	1.0	24.5 1/ 0	17.5	7.5	0.0	3.1	7.5	23.5	12.J 25.1
	East Anglia	771	3/6	1.0	14.9	11.3	14.7	0.9	3.3	2.5	23.5	20.1
лк	Last Aliglia Barkshira, Bucks & Oxfordshira	735	343	1.0	20.3	10.1	21.5	0.4	2.4	2.5	27.5	16.2
	Gloucesters Wilts & North Somerson	7 J J 517	0 4 0 224	0.0	20.3 13.8	10.1	۲.J ۶ ۵	10	2.2	0.9 1 A	20.2	30.4
	celand	217	100	0.9	26.1	6.7	30 g	0.0	0.0	7.0	28.4	50.1
	Liechtenstein	30	1 140	0.1	45.5	12.8	7 8	0.0	2.6	2.9 14 R	20.4 6.7	0.2
		224	226	0.1	18.9	14.7	10.6	0.0	<u>2.0</u>	7 0	28.6	15.3
NO	Ander on Rogaland	124	188	0.4	12.0	23.4	63	0.1	- 1 .9 22.2	16.7	20.0 7 8	11.5
	Sør-Østlandet	00	11/	0.2	12.0	14 R	25 R	0.1	70	16.7	15.5	67
		99	114	0.2	12.4	14.0	20.0	0.7	1.3	10.7	10.0	0.7

2002 provisional data. (1)

2002 population data for all regions — with the exception of those in Norway: Eurostat estimations. See abbreviations in page 7. (2) (3)



Overall, the International Patent Classification — IPC section that accounted for the largest proportion of patent applications to the EPO from the EU-15 was 'Performing operations; transporting', followed by 'Electricity'. When looking at the leading regions selected in Table 1, 'Electricity' is the main IPC section for 11 of them, whilst 'Human necessities' was most important for another 10.

As shown in Table 2, patenting activities in the EU-15 are highly concentrated in a few leading regions. Out of 213 regions at the NUTS 2 level, 25% of the total patent applications to the EPO were applied for by inventors from 6 regions, whereas 20 regions accounted for 50% of the total. This high regional concentration of patenting activities is

noticeable regardless of the IPC section being observed. However, the highest concentration was registered in the 'Electricity 'section, for which only 13 regions accounted for 50% of the applications in this field.

The performance of Noord-Brabant (NL) in 2002 was outstanding, as being the leading EU-15 region as a proportion of population with 1 084 patent applications per million inhabitants — Figure 2, it was also the region for which patent applications to the EPO grew the most during the 1997-2002 period — 21.6% per annum, Figure 3.

As a proportion of population, German regions represent 10 out of the 15 leading regions shown in Figure 2.

Table 2: Concentration of	<i>patent applications to the</i>	EPO in EU-15 regions by IPC section (^d)
5	1 11		

		N per quar	lumber of tile of pat	regions ent applic	ations	Patent applications	% of patent applications not broken dow n
		Q1	Q2	Q3	Q4	from EU-15	by region
	Total	6	20	54	213	60 158	0.25
Α	Human necessities	8	24	58	213	9 499	0.41
В	Performing operations; transporting	6	20	53	213	11 386	0.24
С	Chemistry; metallurgy	6	19	52	213	8 484	0.22
D	Textiles; paper	5	13	34	213	1 145	0.29
E	Fixed constructions	8	24	63	213	2 475	0.31
F	Mechanical engineering; lighting; heating; w eapons; blasting	3	15	43	213	6 042	0.13
G	Physics	4	16	41	213	10 223	0.26
н	Electricity	3	13	36	213	10 905	0.18

Example: 25% of the total patent applications to the EPO (Q1) were applied for by inventors from 6 EU-15 regions, 50% were applied for by inventors from 20 regions and 75% by inventors from 54 regions. The total number of regions at the NUTS 2 level, excluding the not possible to regionalise categories, is 213.

(1) 2002 provisional data.



2002 population data for all regions - with the exception of those in

The following new NUTS 2 regions (NUTS 2003) are excluded from the figure because population data is not available: Brandenburg-Nordost

(DE), Brandenburg-Südwest (DE), Pohjois-Suomi (FI), Länsi-Suomi (FI),

Etelä-Suomi (FI), Provincia Autonoma Bolzano/Bozen (IT), Provincia

Autonoma Trento (IT), Centro (PT), Lisboa (PT).

Figure 2: Top fifteen patenting regions in EU-15 in terms of applications per million inhabitants $-2002 {l \choose l}$





(1) 2002: provisional data;

Annual average growth rate 1997-2002 EU-15: 7.0%; Regions considered only if they have a patent applications to the EPO per million inhabitants rate above the EU average (158); The following new NUTS 2 regions (NUTS 2003) are excluded from the figure because population data is not available: Brandenburg-Nordost (DE), Brandenburg-Südwest (DE), Pohjois-Suomi (FI), Länsi-Suomi (FI), Etelä-Suomi (FI), Provincia Autonoma Bolzano/Bozen (IT), Provincia Autonoma Trento (IT), Centro (PT), Lisboa (PT).



(1)

2002: provisional data;

Norway: Eurostat estimations;

Map 1:



 2002: provisional data; 2002 population data for all regions — with the exception of those in Norway: Eurostat estimations;

 The following new NUTS 2 regions (NUTS 2003) are excluded from the map because population data is not available:

 Brandenburg-Nordost (DE), Brandenburg-Südwest (DE),
 Pohjois-Suomi (FI), Länsi-Suomi (FI), Etelä-Suomi (FI),

 Provincia Autonoma Bolzano/Bozen (IT), Provincia Autonoma Trento (IT),
 Centro (PT), Lisboa (PT).



In high tech patenting, Noord-Brabant (NL) led both in absolute terms and as a proportion of population in 2002

Figure 4: Top fifteen high tech patenting regions in the EU-15 in terms of applications per million inhabitants $-2002 (^{l})$



(1) 2002: provisional data;

2002 population data for all regions — with the exception of those in Norway: Eurostat estimations; The following new NUTS 2 regions (NUTS 2003) are excluded from the table because population data is not available: Brandenburg-Nordost

(DE), Brandenburg-Südwest (DE), Pohjois-Suomi (FI), Länsi-Suomi (FI), Etelä-Suomi (FI), Provincia Autonoma Bolzano/Bozen (IT), Provincia Autonoma Trento (IT), Centro (PT), Lisboa (PT). Map 1 shows the regional distribution of high tech patenting at the NUTS 2 level. In 2002, high tech patent applications per million inhabitants in the EEA-18 regions ranged between 502 in Noord-Brabant (NL) to zero applications in various regions of Spain, Finland, France, Greece and Italy. Following Noord-Brabant, the leading EU-15 regions as a proportion of population were the German region of Oberbayern (238) and Stockholm (168) in Sweden — Figure 4.

In terms of the total number of applications, Noord-Brabant was also the leading EU-15 region in high tech patenting, as in 2002 it applied for 1 201 patents in these fields — Table 3. Whilst high tech patents in the EU represented 19.5% of total patents overall, in Noord-Brabant they accounted for 46.3% of the total.

As regards the distribution of patent applications by high tech group, applications in the field of *Communication technology* — CTE represented almost half of high tech patent applications from EU-15. This general trend was also observed for the majority of the leading regions in absolute terms, as for 16 out of the 20 regions presented in Table 3, the *Communication technology* field accounted for the largest proportion.

			Per million	High tech as	Dist	ribution I	by high te	ech grou	ıp in % (:	3)
Country	NUTS 2 region	l otal number	inhabitants (2)	a % of total applications	AVI	CAB	CTE	LSR	MGE	SMC
EU-15		11 739	31	19.5	1.3	29.0	45.4	1.5	14.2	8.6
NL	Noord-Brabant	1 201	502	46.3	0.1	33.9	53.7	0.0	0.7	11.6
DE	Oberbayern	973	238	32.1	1.1	25.3	50.1	0.9	9.5	13.2
FR	Île de France	873	79	25.2	1.1	26.0	53.5	3.0	13.0	3.5
FI	Etelä-Suomi	392	:	39.7	0.3	21.0	72.7	0.0	4.6	1.4
UK	East Anglia	358	161	46.4	0.3	28.1	42.8	4.2	16.5	8.1
DE	Stuttgart	315	80	10.7	0.8	21.2	65.0	0.9	2.4	9.7
SE	Stockholm	306	168	37.1	0.3	22.5	62.9	3.9	5.4	5.0
FR	Rhône-Alpes	299	52	20.2	0.8	40.2	21.0	2.1	12.8	23.0
DE	Köln	244	57	15.3	0.9	23.5	41.5	0.4	21.7	12.1
DK	Danmark	241	45	20.9	0.0	20.1	42.0	2.1	32.6	3.2
UK	Gloucesters., Wilts. & N. Somerset	228	103	44.1	2.7	41.1	48.1	0.1	5.2	2.7
DE	Karlsruhe	221	82	15.4	0.7	52.4	20.2	0.5	22.7	3.5
FR	Bretagne	216	73	56.4	0.0	13.3	82.9	1.9	1.7	0.3
DE	Mittelfranken	211	125	25.0	0.4	38.3	44.1	0.0	4.9	12.3
UK	Berks., Bucks. & Oxfordshire	199	93	27.0	1.1	37.6	36.3	0.7	20.5	3.7
FR	Provence-Alpes-Côte d'Azur	196	43	38.2	2.9	52.0	30.7	0.0	9.0	5.4
IT	Lombardia	188	21	13.5	2.5	30.3	46.4	0.0	5.4	15.4
SE	Sydsverige	181	141	31.1	0.0	42.7	49.8	0.3	6.2	1.0
DE	Berlin	181	53	26.9	0.8	17.0	37.5	3.6	34.5	6.6
DE	Darmstadt	168	45	10.8	2.1	22.8	43.8	0.6	22.9	7.8

Table 3: Top twenty high tech patenting regions in EU-15 in absolute terms -2002 (¹)

(1) 2002 provisional data.

(2) 2002 population data for all regions — with the exception of those in Norway: Eurostat estimations.

(3) See abbreviations in page 7.



Table 4 shows the level of concentration of high tech patent applications to the EPO in the EU-15 regions. It may be seen that the level of concentration is even higher in high tech patenting than it was in total patents — Recall Table 2. Out of 213 regions at the NUTS 2 level, 25% of high tech patent applications to the EPO in 2002 were applied for by inventors from 3 regions, compared to 6 in total patenting. 50% were applied for by inventors from 13 different regions, as opposed to 20 in total patenting. This high regional concentration of high tech patenting activities is noticeable regardless of the high tech group being observed. However, the highest concentration was registered in *Semiconductors* and *Lasers*, for which 50% of the applications originated from only 8 regions.

The EU-15 regions with the highest and the lowest growth in high tech patenting during the 1997-2002 period are listed in Table 5. Readers should notice that only regions with a ratio of high tech patent applications per million inhabitants at least equal to the EU average (31) are taken into account in the ranking. High tech patent applications to the EPO grew at an annual average growth rate of 15.7% during the 1997-2002 period in EU-15. Among the EU-15 regions, Dresden in Germany was the fastest growing region (48.9% per annum). Following Dresden were the German region of Rheinhessen-Pfalz (40.3%) and Bretagne (39.3%) in France. The regions that grew the least were Bedfordshire and Hertfordshire (2.9%) in the UK and Stockholm (4.2%) in Sweden.

	Number of high	r of region tech pater	ns per qua nt applica	artile tions	High tech	% of high tech patent
	Q1	Q2	Q3	Q4	from EU-15	broken dow n by region
Total high tech	3	13	35	213	11 739	0.18
Aviation — AVI	4	11	28	213	147	0.00
Computer and automated business equipment — CAB	3	12	31	213	3 399	0.09
Communication technology — CTE	3	9	27	213	5 335	0.19
Lasers — LSR	3	8	18	213	182	0.00
Micro-organism and genetic engineering — MGE	6	15	45	213	1 663	0.40
Semiconductors — SMC	2	8	26	213	1 014	0.08

Table 4: Concentration of high tech patent applications to the EPO in EU-15 regions by high tech group -2002 (¹)

Example: 25% of the high tech patent applications to the EPO (Q1) were applied for by inventors from 3 regions, 50% were applied for by inventors from 13 regions and 75% by inventors from 35 regions. The total number of regions at the NUTS 2 level, excluding the *not possible to regionalise* categories, is 213. (1) 2002 provisional data.

	Regions with highest grow	th			Regions with low est g	row th	
		Total number	AAGR (3) 1997-2002			Total number	AAGR (3) 1997-2002
Country	NUTS 2 region	2002	in %	Country	NUTS 2 region	2002	in %
DE	Dresden	75	48.9	UK	Bedfords. & Hertfordshire	69	2.9
DE	Rheinhessen-Pfalz	87	40.3	SE	Stockholm	306	4.2
FR	Bretagne	216	39.3	DE	Freiburg	95	5.9
AT	Kärnten	24	38.9	UK	Essex	55	7.1
UK	Leicesters., Rutland and Northamptons.	63	32.0	DE	Hannover	113	7.7
NL	Noord-Brabant	1201	31.7	DE	Oberpfalz	95	8.8
SE	Sydsverige	181	30.4	DE	Schw aben	59	9.1
UK	Inner London	161	30.3	UK	Surrey, East & West Sussex	106	9.8
DE	Mittelfranken	211	28.8	DE	Stuttgart	315	10.8
IE	Southern & Eastern	104	28.2	NL	Utrecht	35	10.8

Table 5: Ten EU-15 regions with highest and lowest growth $\binom{1}{2}$ in high tech patenting — 1997-2002 $\binom{2}{2}$

(1) With a ratio of high tech patent applications per million inhabitants at least equal to the EU average (31).

(2) 2002 provisional data.

(3) AAGR: Annual average growth rate. Annual average growth rate 1997-2002 EU-15: 15.7%.



> ESSENTIAL INFORMATION - METHODOLOGICAL NOTES

This Statistics in Focus provides an insight into the regional patenting activities at the European Patent Office (EPO). The analysis covers the EEA-18 regions with especial focus on EU-15. Regions are classified according to the 2003 edition of the Nomenclature of Territorial Units for Statistics — NUTS, and are considered at the NUTS 2 level.

Eurostat's patents database

A patent is a legal title of industrial property granting its owner the exclusive right to exploit an invention commercially for a limited area and time. The patent confers on its owner the right to stop others from, among other things, making, using or selling such an invention without authorisation. In return for the exclusive right to exploit it, the technical details of the invention are published.

The three criteria that qualify an invention as subject to be patented are its novelty, utility and inventiveness, which are ultimately the grounds for the fundamental hypothesis that a patent represents a codification of inventive activity. It is on the basis of this hypothesis that patent statistics are used to build up indicators of R&D output.

Eurostat's patent database contains two collections of statistical data:

- Patent applications to EPO by date of filing (data source: EPO) PAT_EU,
- Patent indicators at the EPO, the USPTO and triadic patent families (data source: OECD) — PAT_EUT.

Each collection originates from a different source and the methodologies used for processing the data are not necessarily the same.

All the data presented in this SIF originate from the PAT_EU collection, which is maintained in close co-operation with the European Patent Office — EPO (¹). Every year the EPO supplies Eurostat with the latest available data, which are then processed to derive the regional and national indicators. Detailed series of patent data can be obtained from Eurostat's reference database *NewCronos*; Theme 9; Domain: Patent Statistics.

The database contains data at the national and regional levels. Following a complete revision of the patents database in 2004, including the calculation of derived indicators, regional data are broken down according to the 2003 edition of the *Nomenclature of Territorial Units for Statistics — NUTS* (²). This may explain potential differences with data extracted before the 2004 update.

Data in the PAT_EU database are given broken down according to the *International Patent Classification* — *IPC*, which assigns an invention to an IPC-class according to its function or intrinsic nature or its field of application (³). The database covers the period 1989 to 2002, 2002 data being provisional. At times, provisional data may show a slight decrease in the number of patent applications to the EPO compared to the previous years. This could be explained by the fact that for the *Patent Cooperation Treaty* — PCT — applications, the data on the country of residence of the applicant(s) and/or the inventor(s) is imputed into the EPO database only after their international publication. This means that data are only final 18 months after the priority date — See below. Therefore, 2002 final data will only be available after August 2004.

Different criteria can be chosen to count patents. Depending on the options made, the obtained indicators have different value and different meaning. The criteria used by Eurostat for the data extraction from the EPO refer especially to the regional potential for innovation and are defined as follows:

- Type of patents covered: Data in the PAT_EU database refer to applications filed directly under the European Patent Convention or to applications filed under the Patent Co-operation Treaty and designating the EPO (Euro-PCT).
- Reference year: Patent applications are counted according to the year in which they were filed at the EPO or year of application.

 Geographical assignment of the patent. The regional distribution of patent applications is assigned according to the inventor's place of residence, following the methodological recommendations given in 'The Regional Dimension of R&D and Innovation Statistics — Regional Manual'. If one application has more than one inventor, the application is divided equally among all of them and subsequently among their regions.

- Assignment to the IPC codes: If a patent is assigned to more than one IPC code, the application is equally divided among all the IPC-subclasses.
- High tech patent applications: The definition of high tech followed by Eurostat is that of the Trilateral Statistical Report. Here, the following technical fields are defined as high technology: computer and automated business equipment; micro-organism and genetic engineering; aviation; communication technology; semi-conductors; lasers. Each group is constructed by aggregating a list of IPC subclasses.

For further information on definitions and explanatory notes see metadata in Eurostat's reference database *NewCronos*; Theme 9; Domain: PATENTS.

Statistical abbreviations and symbols

- : not available
- not applicable

IPC Sections

Section A:	Human necessities
Section B:	Performing operations; transporting
Section C:	Chemistry; metallurgy
Section D:	Textiles; paper
Section E:	Fixed constructions
Section F:	Mechanical engineering; lighting; heating; weapor
Section G:	Physics
Section H:	Electricity.

s; blasting

High technology groups

AVI	Aviation
AVI	Aviation

- CAB Computer and automated business equipment
- CTE Communication technology
- LSR Lasers
- MGE Micro-organism and genetic engineering
- SMC Semi-conductors.

(1) See EPO's web site at <u>http://www.epo.org</u>.

- (2) For further details refer to **Regions, Nomenclature Territorial Units for Statistics NUTS**, Eurostat, 2003.
- (3) For further detail on the IPC classification visit the WIPO's web site at <u>http://www.wipo.int</u>.



Further information:

\geqslant **Reference publications**

Title Statistics on Science and Technology in Europe, 2003 edition KS-57-03-104-EN-C Catalogue No Price **EUR 35**

Databases \mathbf{b}

NewCronos, Theme 9, Domain: patents

To obtain information or to order publications, databases and special sets of data, please contact the Data Shop network:

DANMARK DEUTSCHLAND ESPANA FRANCE ITALIA - F DANMARKS STATISTIK Statistisches Bundesamt Statistisches Bundesamt INE INSEE Info Service ISTAT Bibliotek og Information Eurostat Data Shop Otto-Braun-Straße 70-72 Paseo de la Castellana, 183 195, rue de Bercy Sele di Roma Sejragade 11 (Eingang: Karl-Marx-Allee) Despacho 0118 Tour Garma A Eurostat Data Shop Via Cesare Balbo, 11a Th: (45) 39 17 30 30 Tel. (49) 61175 84 27 E-28046 MADRILO E-75582 PARIS CEDEX 12 Via Cesare Balbo, 11a Fax (45) 39 173 0.30 Fax (49) 19839 4277 Fax (34) 915 839 1677 915 839 500 Fax (33) 153 17 88 42 Tel. (39) 106 46 73 32 C E-mail: datashop@det URL: http://www.dst.dk/bbbiotek Fax (49) 1888-644 94 30 E-mail: datashop.eurostat@diashop/ urack.tml E-mail: datashop@direse.fr Fax (39) 163 179 18 89 500 Fax (39) 163 179 18 89 20 Fax (39) 163 791 88 22 E-mail: datashop@det URL: http://www.dst.dk/bbbiotek Fax (49) 18839 cMore of the MIDAS Net E-mail: datashop@direse.fr Fax (39) 163 37 89 20 Fax (39) 163 37 89 20 Fax (31) 163 37 89	
DAMARKS STATISTIK Statistisches Bundesamt INE INSEE Info Service ISTAT Bibliotek og Information Eurostat Data Shop Otto-Braun-Strate R To-72 Despacho 118 Discretat Data Shop Centro di informazion Sejragade 11 (Eingang: Karl-Marx-Allee) Despacho 118 Tour Garma A Centro di informazion DK-2100 KØBENHAVN Ø D-10178 Berlin Entrada por Estébanez Caldéron F-75582 PARIS CEDEX 12 Via Cesare Balbo, 11a Fax (45) 39 17 30 30 Tel. (49) 1888-644 94 27/28 Tel. (34) 1516 79 15 839 500 Fax (31) 153 17 88 44 I-00184 Roma E-mail: bib@dist.dk Fax (49) 1888-644 94 30 E-mail: datashop@destatis.de URL: http://www.ed-datashop.de/ URL: http://www.ed-datashop.de/ E-mail: datashop@costatashop/index.ftml URL: http://www.ed-datashop.de/ URL: http://www.ed-datashop.de/ E-mail: datashop.geuroptagerdatashop/index.ftml Member of the MIDAS Net URL: http://www.ed-datashop NCEDERLAND Eurostat Data Shop Statistics Sweden Statistics Sweden ITALIA – Milano NEDERLAND Eurostat Data Shop Voorburg Pustat Data Shop Statistics Sweden Statistics Sweden Ufficio Regionale per la Lombar	oma
Eurostat Data Shop Otto-Braun-Straße 70-72 Paseo de la Castellana, 183 195, rue de Bercy Sede di Roma DK-2100 KØBENHAVN Ø D-10178 Berlin Eurostat Data Shop Despacho 0118 Fr-75582 PARIS CEDEX 12 Via Cesare Balbo, 11a Tif. (45) 39 17 30 30 Tel. (49) 1888-644 94 30 Fax (49) 1886-644 94 30 Fax (49) 1886-644 94 30 Fax (49) 1884-644 94 30 Fax (34) 915 830 357 E-mail: datashop@destatis.de Tel. (34) 915 830 357 E-mail: datashop@destatis.de Tel. (34) 915 830 357 E-mail: datashop@destatis.de Tel. (34) 915 830 57 E-mail: datashop@destatis.de Tel. (34) 915 830 187 E-mail: datashop@destatis.de URL: http://www.eu-datashop.eurostat@jine.es Member of the MIDAS Net E-mail: datashop@destatis.de URL: http://www.istat.lifPro URL: http://www.eu-datashop.of NEDERLAND Eurostat Data Shop IVGORBURG Eurostat Data Shop IVGORBURG N. António José de Almeida, 2 P.200-043 1180A Tilastokirjasto Statitics Sinalis Information service Eurostat Data Shop NOCRBURG Tel. (31) 70 337 49 00 Fax (31) 71 842 63 64 P.28 File.302 Tilastokirjasto P.28 File.302 File.408 80 69 48 01 File.301 21 342 231 File.408 80 69 48 01 File.408 80 69 4	e statistica
Sejragade 11 DK-2100 KØBENHAVN Ø Trk (45) 39 17 30 03 E-mail: bib@dst.dk (Eingang: Karl-Marx-Allee) D-10178 Berlin Despacho 0118 Entrada por Estebanez Caldéron Tour Gamma A F.75582 PARIS CEDEX 12 Eurostat Data Shop Yia (45) 39 17 30 03 E-mail: bib@dst.dk Tel. (49) 1888-644 94 27/28 E-28046 MADRID Tel. (34) 915 839 167/ 915 839 500 Fax (33) 15 31 7 88 42 Tel. (39) 06 46 73 32 2 E-mail: bib@dst.dk E-Mail: datashop@destatis.de URL: http://www.ed.datashop.de/statis.de URL: http://www.ed.datashop.de/statis.de Despacho 0118 Tel. (34) 915 839 167/ 915 839 500 Fax (33) 15 31 7 88 42 Fax (39) 06 46 73 32 2 ITALIA – Milano E-Mail: datashop.de/statis.de URL: http://www.ed.datashop.de/statis.de Eurostat Data Shop Voorburg PoRTUGAL Statitics Finland Eurostat Data Shop Lisboa Statitics Finland Statitics Finland ITALIA – Milano NEDERLAND Eurostat Data Shop Voorburg PoRTUGAL Statitics Finland Statitics Sweden Information service Via Fieno 3 N.2270 JM VOORBURG Tel. (35) 21 842 63 64 Fax (35) 12 1842 61 00 Fax (36) 17 34 22 79 Statistics Sweden Information service Via Fieno 3 Tel. (31) 70 337 49 00 Fax (35) 12 1842 63 64 Fax (35) 12 1842 63 64 Fie. (36) 91 73 42 21 Fie. (36) 91 73 42 21 Fie. (36) 91 73 42 22 79 Fax (46) 8 50 69 48 95	
DK-2100 KØBENHAVN Ø D-10178 Berlin Tit (45) 39 17 30 03 D-10178 Berlin Tit (45) 173 030 F-75582 PARIS CEDEX 12 Via Cesare Balbo, 11a Fax (45) 39 17 30 03 Tel. (49) 1888-644 94 27/28 E-8046 MADRID F-75582 PARIS CEDEX 12 Via Cesare Balbo, 11a Fax (45) 39 17 30 03 Fax (45) 91 175 94 27 Tel. (34) 915 830 167/ 915 839 500 Fax (33) 15 31 78 84 Tel. (39) 06 46 73 32 2 E-mail: datashop@destatis.de URL: http://www.ds.dk/bibliotek Fax (43) 91 175 94 27 Tel. (34) 915 830 357 Fax (33) 15 31 78 84 Tel. (39) 06 46 73 32 2 E-mail: datashop@destatis.de URL: http://www.ds.dk/bibliotek Fax (34) 915 830 357 Fax (34) 915 830 357 Fax (34) 915 830 357 ITALIA – Milano NEDERLAND Full: http://www.ide.it/fiashop/doirsee.fr Fax (34) 915 830 800 Member of the MIDAS Net Ufficio Regionale per la Lombardia Eurostat Data Shop - Voorburg Postbus 4000 NL2270 JM VOORBURG Av. Antóni ol. soé de Almeida, 2 P.1000-043 LISB0A File/Sorbus 4000 Statistics Statistics Sweden Information service Eurostat Data Shop Helsinki File/309 17 34 22 7 Fax (31) 70 337 49 00 Fax (351) 21 842 63 64	
Th: (45) 39 17 30 30 Tel. (49) 1888-644 94 27/28 E-28046 MADRID Tel. (31) 15 31 7 88 44 I-00184 Roma Fax (45) 39 17 30 03 (49) 611 75 94 27 Tel. (34) 915 839 167/ 915 839 500 Fax (33) 15 31 7 88 44 I-00184 Roma URL: http://www.dst.dk/bibliotek Fax (49) 1888-644 94 30 Fax (34) 915 830 357 Fax (33) 15 31 7 88 44 I-00184 Roma URL: http://www.dst.dk/bibliotek E-Mail: datashop@destatis.de URL: http://www.iea.es/protysen/datashop. Fax (34) 915 830 357 Fax (33) 05 82 Fax (33) 05 64 67 33 22 TITALIA – Milano E-Mail: datashop@destatis.de URL: http://www.iea.es/protysen/datashop. Fax (34) 915 830 357 Fax (33) 05 64 67 33 22 Fax (39) 06 46 73 32 URL: http://www.iea.es/protysen/datashop.eurostat@lisne.es URL: http://www.iea.es/protysen/datashop.eurostat@lisne.es Fax (34) 915 830 357 Fax (34) 915 830 357 URL: http://www.iea.es/protysen/datashop.eurostat@lisne.es URL: http://www.iea.es/protysen/datashop.eurostat@lisne.es Fax (34) 915 830 367 Fax (34) 915 830 357 URL: http://www.iea.es/protysen/datashop.eurostat@lisne.es URL: http://www.iea.es/protysen/datashop.eurostat@lisne.es Statistics Finland URL: http://www.iea.es/protysen/datashop URL: http://www.istat.it/Procest@lisne.es NEDERLAND NECEVERL Statistics Finland Statistics Finland UFS/seriod NL-2270 JM VOORBURG NL-2270 JM VOORBURG	
Fax (45) 39 17 30 03 (49) 611 75 94 27 Fax (44) 1888-644 94 30 Fax (49) 1888-644 94 30 Fax (34) 915 830 657 Fax (33) 15 31 78 82 22 Tel. (39) 06 46 73 32 2 E-mail: datashop@destatis.de URL: http://www.dst.dk/bibliotek Fax (49) 1888-644 94 30 Fax (34) 915 830 657 Fax (33) 15 31 78 82 22 Tel. (39) 06 46 73 32 2 ITALIA – Milano NEDERLAND Fax (34) 915 830 657 Fax (39) 06 46 73 32 2 ITALIA – Milano NEDERLAND Femail: datashop@une.estprodyser/datashop/ index.html Fax (34) 915 830 657 Fax (39) 06 46 73 32 2 Fax (39) 06 46 73 32 2 ITALIA – Milano NEDERLAND Femail: datashop@une.estprodyser/datashop/ index.html Fax (34) 915 830 657 Fax (35) 916 80 6569 459 Fax (35) 916 80 656 94	
E-mail: bit	i
URL:: http://www.dst.dk/bibilotek E-Mail: datashop@destatis.de URL:: http://www.eu-datashop.de/ E-mail: datashop@destatis.de URL:: http://www.eu-datashop.de/ E-mail: datashop@destatis.de URL:: http://www.eu-datashop.de/ Member of the MIDAS Net E-mail: datashop@destatis.de URL:: http://www.eu-datashop.de/ E-mail: datashop@destatis.de URL:: http://www.eu-datashop.de/ E-mail: datashop@destatis.de URL:: http://www.eu-datashop.de/ Member of the MIDAS Net E-mail: datashop@destatis.de URL:: http://www.idat.it/in/exerce.it/in/www.idat.it/in/www.idat.it/in/www.idat.it/in/www.idat.it/in/www.idat.it/in/exerce.it/in/www.idat.i	/ 07
URL: http://www.eu-datashop.de/ URL: http://www.eu-datashop.de/ URL: http://www.eu-datashop.de/ URL: http://www.eu-datashop.de/ URL: http://www.eu-datashop.de/ URL: http://www.eu-datashop.de/ ITALIA - Milano NEDERLAND PORTUGAL SUOM//FINLAND SVERIC ISTAT Centraal Bureau voor de Statistiek Eurostat Data Shop Eurostat Data Shop Lisboa Statitics Finland Statistics Sweden Information service Postbus 4000 NL-2270 JM VOORBURG P.1000-043 LISBOA Filastokirjasto Statistics eurostat Data Shop Via Fiero 3 NL-2270 JM VOORBURG P.1000-043 LISBOA Fil. (351) 21 842 61 00 File.351) 21 842 61 00 File.301 / 20122 Tilastokes/us Stot Statistics Fex (39) 02 80 61 32 304 Fax (31) 70 337 59 84 E-mail: data.shop@ine.pt F. (358) 91 73 422 21 Fax (351) 21 842 63 64 P. (359) 91 73 422 71 Fax (36) 80 69 480 01 VRL: http://www.istat.if/Produti-e/ Allegati/ E-mail: data.shop@ine.pt F. (358) 91 73 422 71 Fax (36) 80 69 480 01 URL: htp://www.istat.if/Produti-e/ Allegati/ E-mail: data.shop@ine.pt F. (350) 91 73 422 71 Fax (36) 80 69 480 01 WRL: htp://www.istat.if/Produti-e/ Allegati/ E-mail: data.shop@ine.pt F. (358) 91 73 422 71 Fax (36) 80 69 480 01 WRL: htp://www.istat.if/Produti-e/ Allegati/ E-mail: data.shop@ine.pt F. (350) 91 73 422 71 Sahk	.it
ITALIA – Milano NEDERLAND PORTUGAL SUOM//FINLAND Statistics Sweden Lurostat Data Shop ISTAT Ufficio Regionale per la Lombardia Eurostat Data Shop Centraal Bureau voor de Statistiek Eurostat Data Shop Eurostat Data Shop Lisboa INE/Serviço de Difusão Statitics Finland Eurostat Data Shop Helsinki Statistics Sweden Information service 1/20123 MILANO NL-2270 JM VOORBURG Nederland P.120 Statistics Finland Eurostat Data Shop Helsinki Statistics Sweden Information service 1/20123 MILANO NL-2270 JM VOORBURG Nederland P.120 Statistics Sweden Information service Statistics Sweden Eurostat Data Shop Helsinki Statistics Sweden Information service 1/20123 MILANO Nederland Tel. (351) 21 842 61 00 FiN-00022 Tilastokeskus Sci (351) 21 842 63 64 FiN-00022 Tilastokeskus Sci (351) 21 842 22 10 Sci (351) ST OCKHOLI Trin (46) 8 50 69 480 01 Fax (39) 02 80 61 32 30/4 E-mail: mileuro@tin.it E-mail: data.shop@ine.pt Fix (351) 21 842 23 04 Fix (46) 8 50 69 480 01 URL: http://www.istat.if/Prodotti-e/ Allegati/ Eurostat Data Shop.pt.html URL: htp://www.iilastokeskus.fit/kk/k/datashop/ Trin (46) 8 50 69 440 92 URL: htp://www.iilastokeskus.fit/kk/k/datashop/ URL: htp://www.iilastokeskus.fit/kk/k/datashop/ E-posit: infoservice@st URL: htp://www.iilastokeskus.fit/kk/k/datashop/ </td <td>otti-e/ Allegati/</td>	otti-e/ Allegati/
ITALIA – Milano NEDERLAND PORTUGAL SUOM//FINLAND SVERIC ISTAT Ufficio Regionale per la Lombardia Eurostat Data Shop Centraal Bureau voor de Statistiek Eurostat Data Shop / Voorburg Postbus 4000 Eurostat Data Shop Lisboa INE/Serviço de Difusão Av. António José de Almeida, 2 P-1000-043 LISBOA Statitics Finland Eurostat Data Shop Helsinki Statistics Sweden Information service Eurostat Data Shop PL 28 1/20123 MILANO NL-2270 JM VOORBURG Nederland P-1000-043 LISBOA Tel. (351) 21 842 61 00 PL 28 Statistics Sweden Tilastokirjasto Information service Eurostat Data Shop FL 28 Statistics Sorden Tilastokirjasto Statistics Sweden Tilastokirjasto real, (39) 02 80 61 32 304 Fax (31) 70 337 59 84 Fax (351) 21 842 63 64 P, (358) 91 73 422 21 Statistics Sorden Tilastokirposti: datashop@lat.fi URL: http://www.itiat.it/Produti-e/ Allegati/ Eurostat Data Shop. Fax (36) 68 50 69 490 Tfn (46) 85 069 48 01 Fax (36) 85 06 48 05 Statistics Norway Statistics Norway Statistics/soc/soc/soc/soc/soc/soc/soc/soc/soc/s	
ISTAT Centraal Bureau voor de Statistiek Eurostat Data Shop Statistics Finland Statistics Sweden Ufficio Regionale per la Lombardia Eurostat Data Shop Postbus 4000 Av. António José de Almeida, 2 Eurostat Data Shop Filastokirjasto Information service Via Fieno 3 NL-2270 JM VOORBURG P-1000-043 LISBOA Filestokirjasto Filastokirjasto Karlavägen 100 - Box 1-20123 MILANO Nederland Tel. (351) 21 842 61 00 Filv-0022 Tilastokesus S-104 51 STOCKHOL Tel. (39) 02 80 61 32 304 Fax (31) 70 337 59 84 E-mail: data.shop@ine.pt F. (358) 91 73 42 21 Fr (368) 91 73 42 21 E-mail: mileuro@tin.it E-mail: data.shop@ine.pt E-mail: data.shop@ine.pt F. (358) 91 73 42 21 Fax (31) 70 337 59 84 URL: http://www.tista.til/Prodotti-e/ Allegati/ E-mail: data.shop@ine.pt F. (358) 91 73 42 21 Fax (38) Cost.selen URL: http://www.tista.til/Prodotti-e/ Allegati/ URL: www.cbs.nl/eurodatashop Statistics Sortex Statistics Sortex UNITED KINGDOM NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Eurostat Data Shop Statistics Norway Statistics Norway Statistics/europatia Bashop Eurostat Data Shop Library and Information Centre Zürich Eurostat Data Shop Office for National Statistics E	E
Ufficio Regionale per la Lombardia Eurostat Data Shop - Voorburg Postbus 4000 INE/Serviço de Difusão Eurostat Data Shop Helsinki Information service Eurostat Data Shop Postbus 4000 Av. António José de Almeida, 2 Tilastokirjasto Eurostat Data Shop 1/20123 MILANO NL-2270 JM VOORBURG P.1000-043 LISBOA FL. Tilastokirjasto Eurostat Data Shop 7el. (39) 02 80 61 32 304 Fax (31) 70 337 59 84 Fax (31) 21 842 63 64 FL. FL. (358) 91 73 42 270 Fax (31) 63 50 694 892 E-mail: mileuro@tin.it E-mail: data.shop@ine.pt F. (388) 91 73 42 270 Fax (34) 68 50 694 892 Fax (34) 70 337 59 84 E-mail: data.shop@ine.pt F. (358) 91 73 42 270 Fax (36 50 694 896 Eurostat Data Shop URL: http://www.istat.it/Produti-e/ Allegati/ URL: htp://www.istat.it/Produti-e/ Allegati/ E-post: infoservice@st URL: htp://www.illastokeskus.fit/kk/datashop/ Statistics Norway Statistics Norway Statistics Norway Statistics Norway Eurostat Data Shop Library and Information Centre Porte Shop Statistics Norway Statistics/2015 treet Eurostat Data Shop	
Eurostat Data Shop Postbus 4000 Av. António José de Almeida, 2 Tilastokirjasto Eurostat Data Shop Via Fieno 3 NL-2270 JM VOORBURG P-1000-043 LISBOA FL/28 Karlavägen 100 - Box 1-20123 MILANO Nederland Tel. (351) 21 842 61 00 FW-20022 Tilastokes/us S-104 51 STOCKHOL Tel. (39) 02 80 61 32 304 Fax (31) 70 337 49 00 Fax (351) 21 842 63 64 FV.3639 917 34 22 21 S-104 51 STOCKHOL F-mail: mileuro@tin.it E-mail: datashop@cbs.nl URL: http://www.istat.if/Prodotti-e/ Allegati/ E-mail: datashop@cbs.nl URL: http://www.iisatokes/us.fit/k/kk/datashop/ E-rostat datashop@istat.fi E-rostat (160ervice@gistat.fi) URL: http://www.iisatokes/us.fit/kk/k/datashop/ NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Eurostat Data Shop Statistics Norway Statistisches Amt des Kantons Harver Analytics Correct of the MIDAS Net Library and Information Centre Statistisches Amt des Kantons Harver Analytics Office for National Statistics Library and Information Centre Eurostat Data Shop Eurostat Data Shop Office for National Statistics Library and Information Centre Eurostat Data Shop Eurostat Data Shop	
Via Fieno 3 NL-22/0 JM VOORBURG P-1000-048 LISBOA PL28 Karlavagen 100 - Box I-20123 MILANO Nederland Tel. (351) 21 842 61 00 Filv-00022 Tilastokeskus S-104 51 STOCKHOL Tel. (39) 02 80 61 32 460 Tel. (31) 70 337 49 00 Fax (351) 21 842 63 64 P. (358) 917 34 22 21 Fax (46) 8 50 69 48 05 Fax (39) 02 80 61 32 304 Fax (31) 70 337 59 84 E-mail: data.shop@ine.pt F. (368) 917 34 22 19 Fax (46) 8 50 69 48 05 Run: http://www.istait/iProduti-e/Allegati/ E-mail: datashop@cbs.nl URL: http://www.istait/iProduti-e/Allegati/ E-post: infoservice@st Wenther of the MIDAS Net NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Eurostat Data Shop Statistics Norway Statistics Norway Statisticsches Amt des Kantons Harver Analytics Office for National Statistics Library and Information Centre Formation Ce	
I-20123 MILANO Nederland Tel. (37) 70 337 49 00 Tel. (37) 70 337 49 00 Fax (351) 21 842 61 00 Tiv00022 Interactional and table 2. Kerns, Helsinki S-104 51 STOCKHOL Fax (39) 02 80 61 32 304 Fax (31) 70 337 59 84 Fax (351) 21 842 63 64 P. (358) 91 73 42 210 Tfr (46) 8 50 69 48 95 E-mail: mileuro@tin.it E-mail: data.shop@ine.pt F. (358) 91 73 42 279 Fax (46) 8 50 69 48 95 URL: http://www.istat.it/Prodotti-e/Allegati/ URL: www.cbs.nl/eurodatashop URL: http://www.tilastokeskus.fi/kk/kk/datashop/ Fax (46) 8 50 69 48 95 UNITED KINGDOM NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Eurostat Data Shop United for National Statistics Statistics Norway Statistics Norway Statisticshes Amt des Kantons Harver Analytics Uff5 Eurostat Data Shop Library and Information Centre Eurostat Data Shop Eurostat Data Shop Furestat Data Shop	4 300
Tell. (39) 02 80 61 32 460 Tell. (31) 70 337 49 00 FaX (35) (21 842 53 64 p. (358) 917 34 22 21 Till (40) 8 50 69 48 01 FaX (39) 02 80 61 32 304 FaX (31) 70 337 59 84 E-mail: data.shop@ine.pt F. (358) 917 34 22 79 FaX (36) 85 069 48 01 E-mail: mileuro@tin.it URL: thtp://www.ista:tiProduti-e/Allegati/ E-mail: data.shop@ine.pt FaX (46) 85 069 48 01 E-mail: data.shop@ine.pt FaX (46) 85 069 48 01 URL: thtp://www.ista:tiProduti-e/Allegati/ E-mail: data.shop@ine.pt FaX (46) 85 069 48 01 E-mail: data.shop@ine.pt FaX (46) 85 069 48 01 URL: thtp://www.ista:tiProduti-e/Allegati/ E-mail: data.shop@ine.pt FaX (46) 70 337 59 84 E-mail: data.shop@ine.pt FaX (46) 85 069 48 01 URL: thtp://www.ista:tiProduti-e/Allegati/ URL: thtp://www.ista:tiProduti-e/Allegati/ E-post: infoservice@st URL: thtp://www.scb.selfen Member of the MIDAS Net NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Standard_22884.asp Eurostat Data Shop Statistics Norway Statistisches Amt des Kantons Harver Analytics Eurostat Data Shop Office for National Statistics Eibrary and Information Centre Eurostat Data Shop Eurostat Data Shop Eurostat Data Shop Office for National Statistics <	1
Fax (39) 02 00 01 22 304 Fax (31) 70 337 99 04 E-finali: data.shop@ine.pt F, (358) 917 34 22 79 Fax (40) 60 00 94 05 E-mail: data.shop@ine.pt F, (358) 917 34 22 79 Fax (40) 60 00 94 05 Fax (40) 60 00 94 05 E-mail: data.shop@ine.pt F, (358) 917 34 22 79 Fax (40) 60 00 94 05 URL: http://www.istat.if/Produti-e/Allegati/ Eurostatidatshop.html URL: http://www.istat.if/tosevrice@istat.if E-post: findesvice@istat.if UNITED KINGDOM NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Eurostat Data Shop Statistics Norway Statistisches Amt des Kantons Harver Analytics Office for National Statistics Library and Information Centre Eurostat Data Shop Eurostat Data Shop Statistisches Amt des Kantons Zürich Eurostat Data Shop Eurostat Data Shop Eurostat Data Shop	
E-Initial independent influence of the MIDAS Net URL: http://www.sitain/products.in/ E-Initial independent information centre Sankdopsil: datashoppilsil: influence of the MIDAS Net URL: http://www.sitain/products.in/ E-Initial independent information centre Sankdopsil: datashoppilsil: information centre E-Initial information centre Sankdopsil: datashoppilsil: information centre Eurostat Data Shop Office for National Statistics Library and Information Centre Zürich Eurostat Data Shop Eurostat Data Shop Formation Statistics Library and Information Centre Zürich Eurostat Data Shop Formation Statistics Library and Information Centre Zürich Eurostat Data Shop	
Eurostatidatashop.html Nonce Standard 22884.asp UNITED KINGDOM NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Eurostat Data Shop Statistics Norway Statistics Norway Statistics Statistics Office for National Statistics Library and Information Centre Zürich Eurostat Data Shop Room 1015 Eurostat Data Shop Statistics Norway Statistics Norway).Se plates/
Member of the MIDAS Net UNITED KINGDOM NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Eurostat Data Shop Statistics Norway Statistisches Amt des Kantons Harver Analytics Office for National Statistics Library and Information Centre Zürich Eurostat Data Shop Room 1015 Furostat Data Shop Furostat Data Shop 60 Fasti 2010	1010-3/
UNITED KINGDOM NORGE SCHWEIZ/SUISSE/SVIZZERA UNITED STATES OF AMERICA Eurostat Data Shop Statistics Norway Statisticsches Amt des Kantons Harver Analytics Office for National Statistics Library and Information Centre Zürich Eurostat Data Shop Room 1015 Furorstat Data Shop Furostat Data Shop 60 Fasti 200 Street	
Eurostat Data Shop Statistics Norway Statistisches Amt des Kantons Harver Analytics Office for National Statistics Library and Information Centre Zürich Eurostat Data Shop Room 1.015 Furostat Data Shop Eurostat Data Shop 60 Fasti 2013	
Office for National Statistics Library and Information Centre Zürich Eurostat Data Shop Room 1.015 Eurostat Data Shop 60 East 42nd Street	
Room 1 015 Furostat Data Shop Furostat Data Shop 60 East 42nd Street	
Carditt Road Kongens gate 6 Bleicherweg 5 Suite 3310	
Newport south wales NF10 8XG Bors 8131 Dep. CH-3090 Zunch NEW YUKK, NY 10165	
United Nitiguotin N-0033 USLU 16(1) 1225 12 12 USA	
Fax (441) 1038 133 33 Fax (471) 2109 450 4 Fax (471) 1225 1239 F	
E-mail: eurostat.datashop@ons.gov.uk E-mail: Datashop@ssb.no LIDI: http://www.dotaits/uk.zu/.dif	
URL: http://www.ssb.no/biblioteket/datashop/ Orc. http://www.statistic.21.011 LTI.ai. But Data@intere.com/	

Media Support Eurostat (for professional journalists only): Bech Building Office A4/017 • L-2920 Luxembourg • Tel. (352) 4301 33408 • Fax (352) 4301 35349 • e-mail: eurostat-mediasupport@cec.eu.int

For information on methodology

Simona Frank, Eurostat / A4, L-2920 Luxembourg, Tel. (352) 4301 33047, Fax (352) 4301 34149,

E-mail: Simona.Frank@cec.eu.int

This document has been produced in collaboration with Marta Alfageme Perez de Mendiguren and Marie-Agnès Bragard. **ORIGINAL: English**

Please visit our web site at www.europa.eu.int/comm/eurostat/ for further information!

A list of worldwide sales outlets is available at the Office for Official Publications of the European Communities.

2 rue Mercier - L-2985 Luxembourg Tel. (352) 2929 42118 Fax (352) 2929 42709 URL: http://publications.eu.int E-mail: info-info-opoce@cec.eu.int

BELGIQUE/BELGIË – DANMARK – DEUTSCHLAND – GREECE/ELLADA – ESPAÑA – FRANCE – IRELAND – ITALIA – LUXEMBOURG – NEDERLAND – ÖSTERREICH PORTUGAL – SUOMI/FINLAND – SVERIGE – UNITED KINGDOM – ÍSLAND – NORGE – SCHWEIZ/SUISSE/SVIZZERA – BALGARIJA – CESKÁ REPUBLIKA – CYPRUS EESTI – HRVATSKA – MAGYARORSZÁG – MALTA – POLSKA – ROMÂNIA – RUSSIA – SLOVAKIA – SLOVENIA – TÜRKIYE – AUSTRALIA – CANADA – EGYPT – INDIA ISRAËL – JAPAN – MALAYSIA – PHILIPPINES – SOUTH KOREA – THAILAND – UNITED STATES OF AMERICA