

# Statistics in focus

INDUSTRY, TRADE AND SERVICES

9/2006

Author

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Manuscript completed on: 25.12.2005

Data extracted on: 5.12.2005

ISSN 1561-4840

Catalogue number: KS-NP-06-009-EN-N

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# Telecommunications in Europe

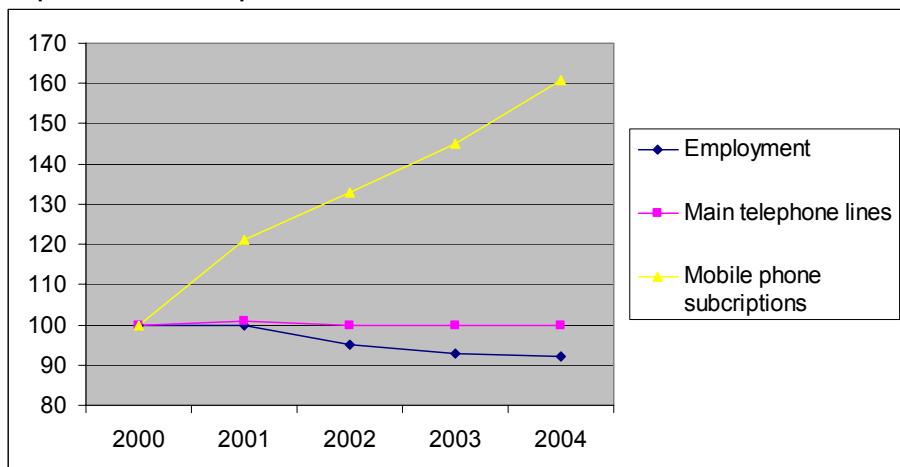
The structure of the alternative ways of accessing telecommunication networks kept on changing in Europe in 2004. The number of main telephone lines seems to have stabilised in the EU25 slightly above 226 million. The number of mobile subscriptions again grew rapidly, rising above 409 million. Moreover, the broadband penetration rate also continued its rapid growth, from 6.5 in July 2004 to 10.6 per 100 inhabitants a year later.

For fixed telephone lines, trends differ between countries for the eight-year period 1996–2004, ranging from the high average annual growth in Poland (+8.5%) to the decline in Austria (-2.6%).

The latest annual developments from 2003 to 2004 show rapid growth rates in Cyprus (9.4%), Greece (7.9%), Spain (6.6%) and Slovenia (5.8%), whereas Finland (-6.9%) and the Czech Republic (-5.5%) had the highest negative developments. The highest densities in terms of fixed telephone lines per 100 inhabitants in 2004 were to be found in Germany (66.3), Denmark (64.6), Cyprus (63.5) and Sweden (63.4).

The number of mobile telephone subscriptions continued to increase. In absolute terms, growth in 2004 was even higher than in the previous year, though in relative terms it slowed down. The 100 subscriptions per 100 inhabitant's threshold is evidently not a saturation point, as already five Member States and two EFTA countries have surpassed this landmark (Luxembourg, Sweden, Italy, Czech Republic, United Kingdom, Iceland and Norway).

Graph 1: Recent development in the EU telecommunication sector Index:2000 = 100



The number of mobile telecommunications operators has in general risen, though in some cases the opposite is true. The market has opened for competition in every Member State, each now having more than one operator, thus giving consumers a choice throughout the EU in 2004.

The share of European households with internet access is rapidly rising. In 2004, an average of 43% of households in the EU25 had access. The variation between countries is wide, but those with a low penetration seem to be catching up. A growing proportion of internet connections are broadband.

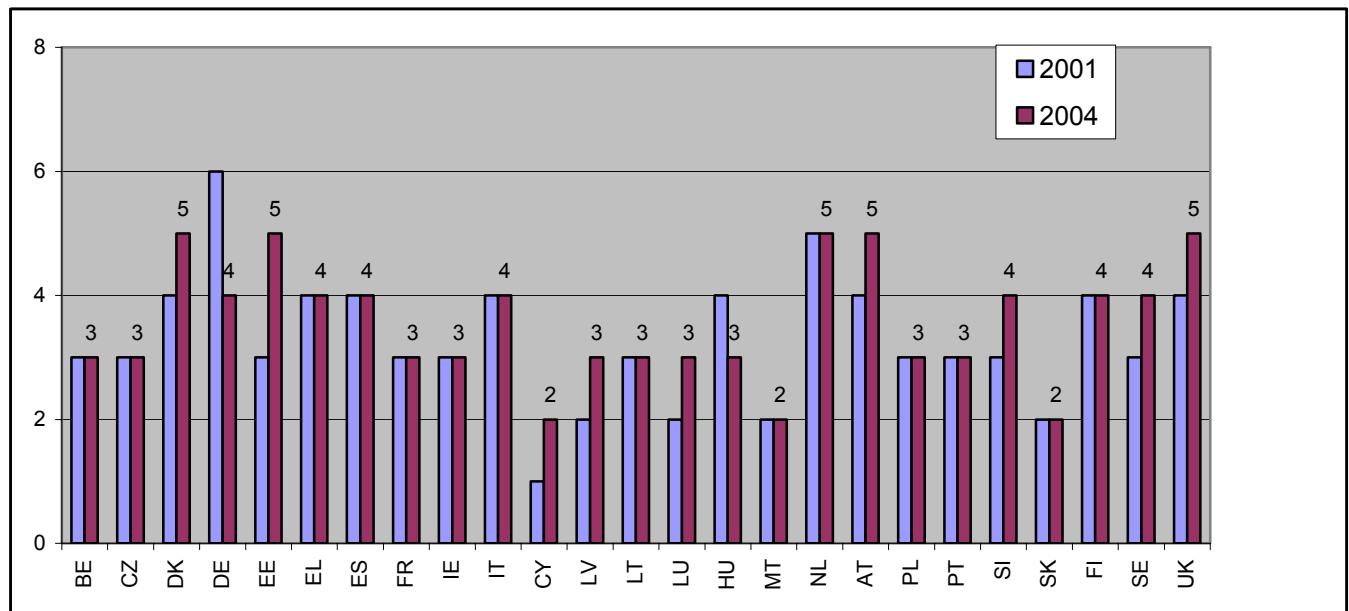
Employment in telecommunications continued to fall slightly in 2004. The new competition has forced operators to rationalise and the creation of new jobs in the new services has not yet quite offset this effect within the telecommunications sector.





## Number of mobile telecommunications operators, by EU Member States

**Graph 2: Number of mobile telecommunications operators, by EU-Member States**



The number of operators has in general slightly risen, but in some cases the opposite is true. In 2004, every Member State had more than one operator, which

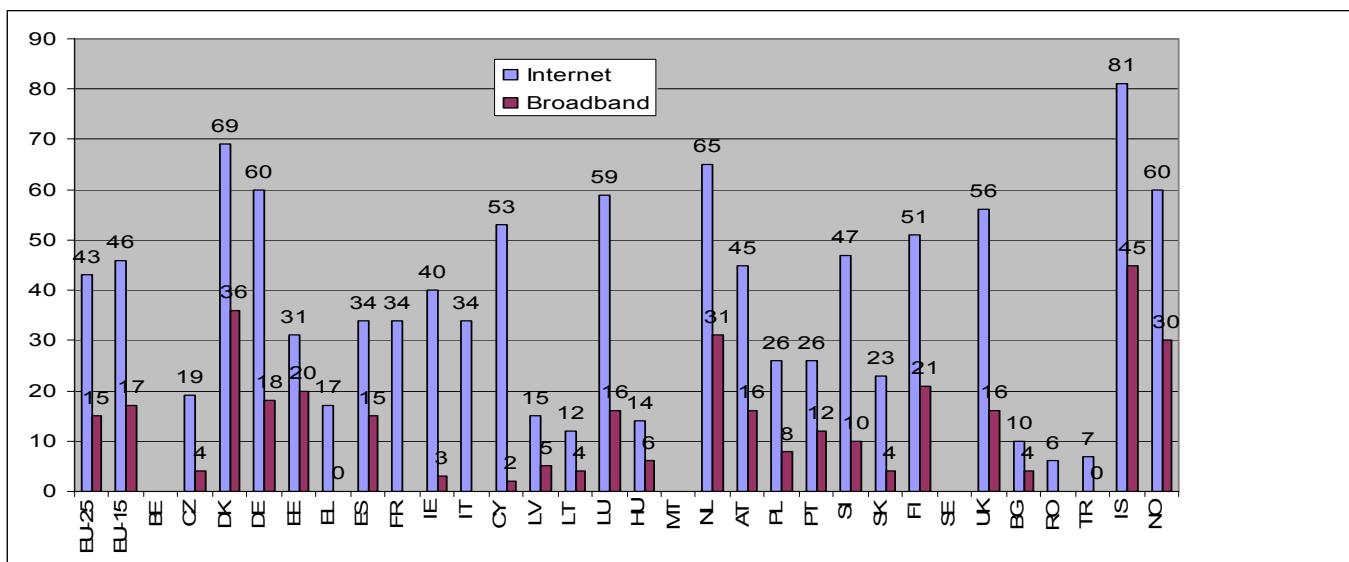
should guarantee a degree of competition throughout EU.

## Internet access

The internet has continued its rapid expansion in European households. In 2004, an average of 43% of households in the EU25 had access. The differences between countries are large, but growth seems to be

faster in those with a low penetration. A growing proportion of internet connections are broadband. A high rate of internet access also seems to correlate with high broadband penetration.

**Graph 3: Level of Internet access: households - percentage of households who have Internet and broadband at home, 2004**



Source: Eurostat, ICT household survey





## ➤ ESSENTIAL INFORMATION – METHODOLOGICAL NOTES

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### Abbreviations

**EU:** European Union, including the 25 Member States (EU-25): Belgium (BE), the Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Greece (EL), Spain (ES), France (FR), Ireland (IE), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), the Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE) and the United Kingdom (UK).

**EU-15:** European Union, including 15 Member States (BE, DK, DE, EL, ES, FR, IE, IT, LU, NL, AT, PT, FI, SE, UK).

**Other countries:** Iceland (IS), Liechtenstein (LI), Norway (NO), Switzerland (CH), Bulgaria (BG), Croatia (HR), Romania (RO) and Turkey (TR).

### Symbols

“:” non available

### Definitions

The **Telecommunications sector** refers to telecommunications services.

A **main telephone line** is a telephone line connecting the subscriber's terminal to the Public Switched Telephone Network (PSTN). ISDN (Integrated Services Digital Network) lines are counted as main telephone lines.

**Mobile telephone subscriptions** refer to subscriptions to an automatic public mobile telephone service which provides access to the PSTN using cellular technology.

Active pre-paid cards are counted as subscriptions.

One person may have more than one mobile telephone subscription and the number of subscriptions can therefore be higher than the population.

**Broadband lines** are defined as those with a capacity equal or higher than 144 Kbits/s. Various technologies are covered; ADSL, cable modem as well as other types of access lines.

**Internet service providers** can be defined as companies that provide other companies or individuals access to, or presence on, the Internet.

### Data sources

#### **COINS Inquiry**

This Inquiry is the initiative of the Working Group about Statistics on Communication and Information Services (COINS). The COINS Working Group, which includes experts from statistical offices and regulatory authorities of the EU Member States, representatives of DG INFSO, ITU and OECD.

The COINS Inquiry has been modified in 2004 and is now called the Telecommunications Inquiry

*It should be noted that data on employment in this publication refer to telecommunication operators and have been taken from the COINS Inquiry and may differ from employment data collected by Eurostat in the frame of the Structural Business Statistics (SBS), which refer to enterprises.*

#### **ICT usage in households**

Survey type: : household survey

Survey period: second quarter 2003

Reference period: first quarter 2003

Sampling unit: households and individuals

Sample size: 60 000 households and 88 000 individuals

Lower age limit for survey of individuals: 16 years

Upper age limit for survey of individuals: 74 years

#### **ITU**

International Telecommunication Union (ITU)

Place des Nations

CH-1211 Genève – Switzerland

[www.itu.int](http://www.itu.int)

The figures in this publication reflect the **state of data availability** as of December 2004.

**This publication** was established with the assistance of Sigrid Fickinger.

# **Further information:**

Data: [EUROSTAT Website/Home page/Industry, trade and services/Data](#)

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Their mission is to provide help and guidance to Internet users of European statistical data.

Contact details for this support network can be found on our Internet site: [www.europa.eu.int/comm/eurostat/](http://www.europa.eu.int/comm/eurostat/)

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