

A Telecommunication and Internet Infrastructure

The statistical data on **the available telecommunication and Internet infrastructure** – total number of fixed telephone lines, active SIM cards and broadband connections (subscribers) published in this chapter originate from the following sources:

- **The Czech Telecommunication Office (CTO)** – Czech data on the number of subscribers in the fixed telephone network (fixed lines) and data on broadband subscribers for the 2005 - 2007 period.
Note: The above-mentioned data were supplemented by the publicly available data of individual mobile operators (active SIM cards), experts' estimates and the CZSO's own extrapolations for the broadband subscribers for the year 2008.
- **The International Telecommunication Union (ITU)** - international comparison of the mobile telephone network subscribers.
- **The Organisation for Economic Co-operation and Development (OECD)** - international data on the broadband subscribers.

Definitions:

- **Subscriber of a fixed/mobile telephone network** is a natural person or legal entity connected to these networks on the basis of a contract with the provider of access to these networks.
- **Fixed telephone lines** refer to telephone lines connecting a subscriber's terminal equipment to the public switched telephone network (PSTN) and which have a dedicated port on a telephone exchange.
- **Active SIM cards** refer to users of portable telephones subscribing to a public mobile telephone service using cellular technology, which provides access to the PSTN.

- **Pre-paid cards** – customer prepay credit; all services are paid in advance.

Note: An inactive user, which refers to owners of a prepaid card that have not made or received a call within the last 3 months, should be excluded.

- **Post-paid subscriber** is a customer with a concluded contract with the operator, on the basis of which this customer pays a monthly lump-sum fee within a reasonable period of time.

Note: One person can use more than one active SIM card, i.e. the number of mobile telephone subscribers may be higher than the total number of individuals.

- **Broadband subscriber** is a client (a natural person or legal entity) that uses a high speed Internet access service based on a contract signed with an Internet service provider (ISP).
- **Broadband connection** includes one of the following Internet access services that enable a high-speed Internet connection (256 or more kbit/s, in one or both directions): xDSL (ADSL etc.), Cable TV (cable modem/CATV), WiFi and other fixed wireless connections (FWA), via mobile networks (CDMA, UMTS) and other (fibre etc.)

More detailed information and data are available free of charge at the following dedicated website (only in Czech):

http://www.czso.cz/csu/redakce.nsf/i/telekomunikacni_a_internetova_infrastuktura

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Tab. A1 Telephone subscribers in the Czech Republic

| | 2006 | 2007 | 2008 |
|---|---------------|---------------|---------------|
| | thous. | | |
| in fixed network (fixed lines) | 2 855 | 2 403 | 2 264 |
| residential | 1 828 | 1 395 | 1 273 |
| business | 951 | 935 | 969 |
| other | 76 | 71 | 22 |
| in mobile network (active SIM cards) | 12 326 | 13 055 | 13 571 |
| pre-paid cards subscribers | 7 363 | 7 207 | 7 077 |
| post-paid (contract) subscribers | 4 963 | 5 849 | 6 493 |

Figure A1 Fixed telephone lines per 100 inhabitants

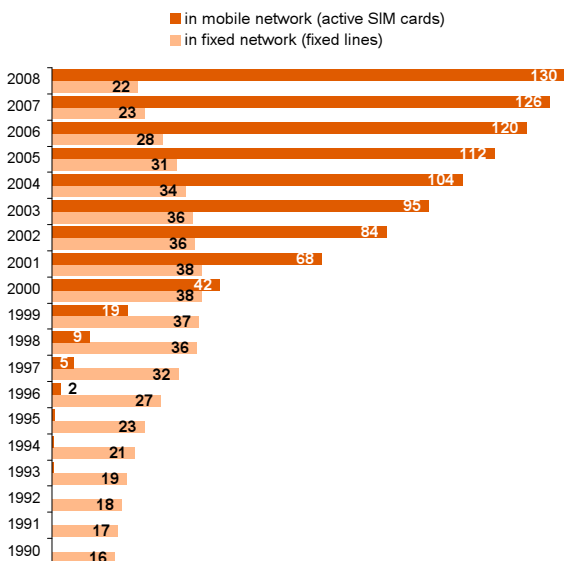
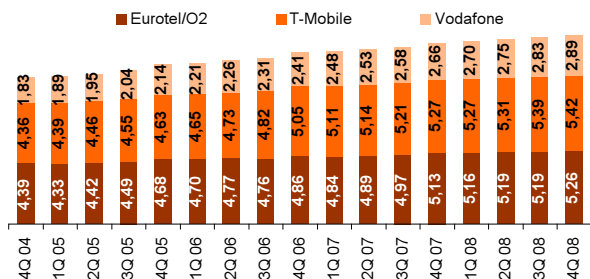


Figure A2 Mobile phone subscribers (millions)

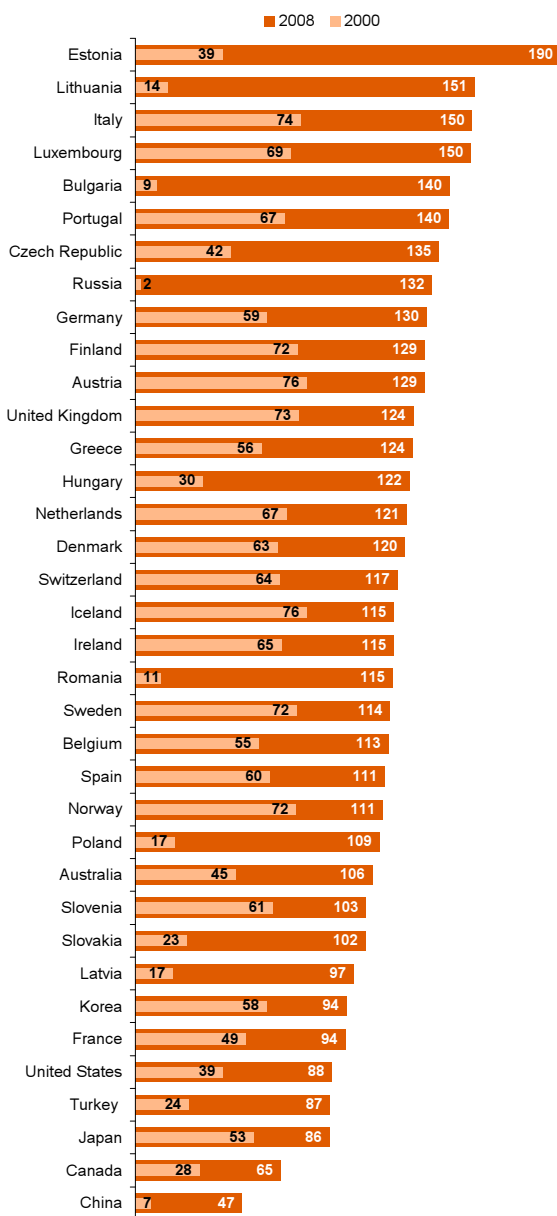


Q - quarter

Source: Czech Telecommunication Office (fixed telephone line);
 Mobile operators (number of mobile subscribers)

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Figure A3 Mobile phone subscribers per 100 inhabitants



Note: Iceland, Latvia, Poland and Norway - year 2007

Source: International Telecommunication Union

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Tab. A2 Broadband subscribers in the Czech Republic

| | 2006 | 2007 | 2008 |
|------------------------------|--------------|--------------|--------------|
| Total | 1 249 | 1 681 | 1 930 |
| DSL (ADSL) | 493 | 613 | 681 |
| TV cabel | 230 | 309 | 360 |
| mobile networks (CDMA, UMTS) | 119 | 183 | 217 |
| Wifi + other FWA connection | 370 | 520 | 572 |
| fibre (FTTX) | 36 | 55 | 100 |

Figure A4 Broadband subscribers (thous.)

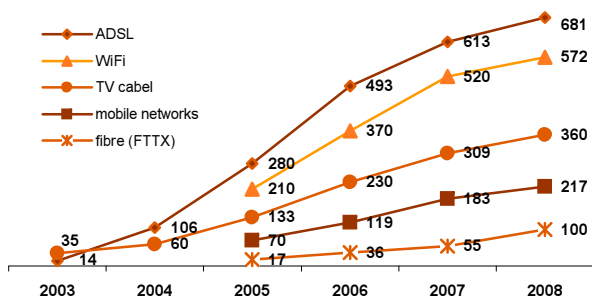


Figure A5 Broadband subscribers, by technology, 2008

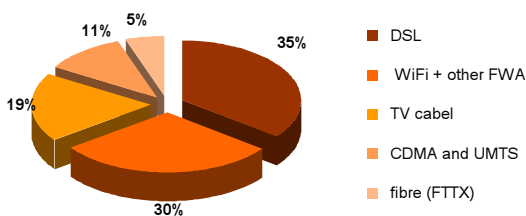
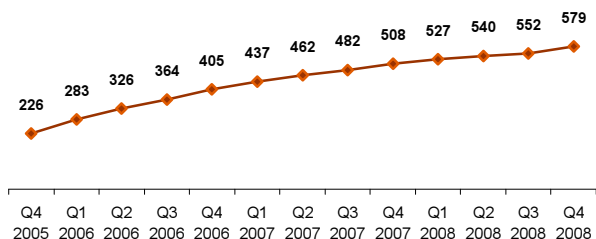


Figure A6 ADSL Internet subscribers, TO2 (thous.)

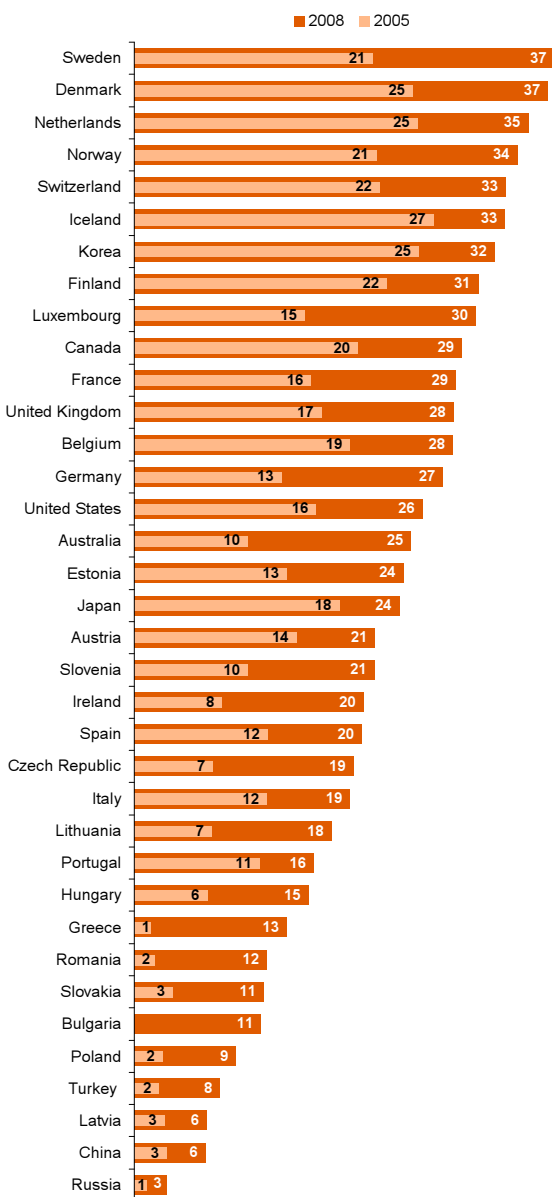


Source: TO2 - Telefónica O2 Czech Republic, a.s

Source: Czech Telecommunication Office - 2006 and 2007 data;
Experts' estimates - 2008 data

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Figure A7 Broadband subscribers per 100 inhabitants

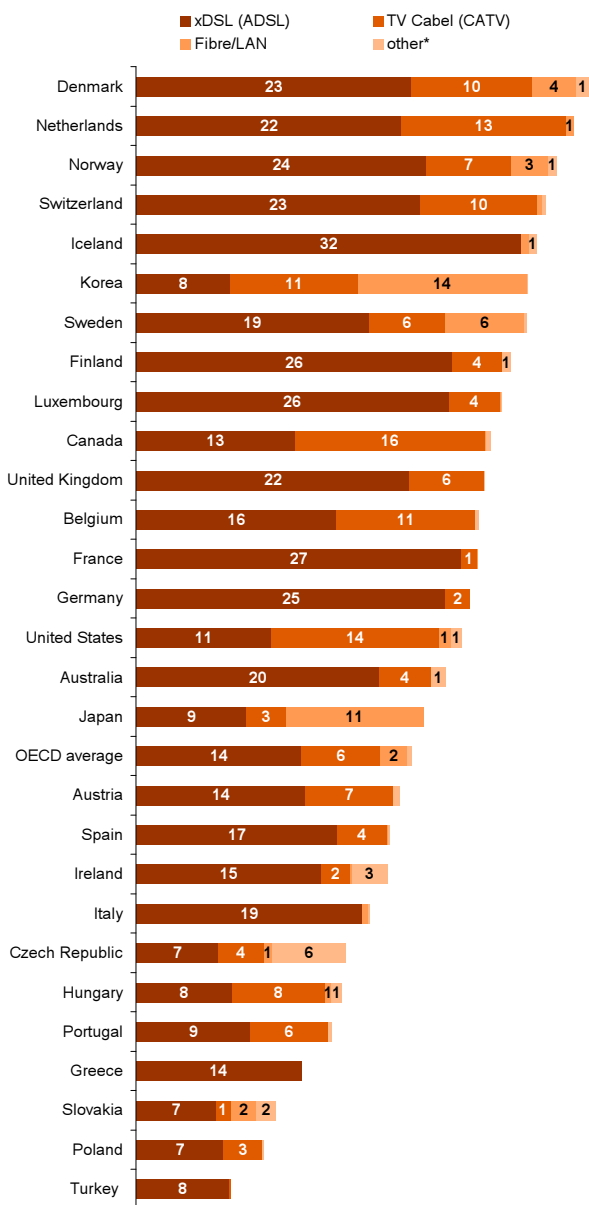


Note: Latvia and Poland - year 2007

Source: International Telecommunication Union

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Figure A8 Broadband subscribers in December 2008 per 100 inhabitants



* Includes fixed wireless technologies, BLP and leased lines. For the the Czech Rep. it includes 3G mobile technologies and Wi-fi that are otherwise excluded.

Source: OECD, 2009