

A ICT Infrastructure

The statistical data on **the available telecommunication and Internet infrastructure** published in this chapter originate from the following sources:

- **Czech Telecommunication Office (CTO)** – data for the Czech Republic on the number of subscriptions in fixed (fixed telephone lines) and mobile (active SIM cards) telephone networks (incl. data about telephone traffic) and data on fixed broadband subscriptions
- **International Telecommunication Union (ITU)** – international data of the fixed and mobile telephone network subscriptions and fixed broadband subscriptions
- **The Organisation for Economic Co-operation and Development (OECD)** - international data on the fixed broadband subscriptions by used technology

Note: This data are mainly collected from providers of these services (Telecommunication operators, Internet service providers) and should be distinguished from data based on ICT users surveys (see chapters B to G).

Definitions:

- **Telephone/Internet subscriber** 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. *Subscribers should be distinguished from users.*
- **Fixed telephone line** refers to telephone line connecting a subscriber's terminal equipment to the public switched telephone network (PSTN) and which have a dedicated port on a telephone exchange. *This term is synonymous with the terms "main station" that is commonly used in telecommunication documents.*
- **Active (post-paid + prepaid) SIM card** refers to subscriptions of portable telephones to a public mobile telephone service using cellular technology, which provides access to the PSTN. Both post-paid and prepaid subscriptions are included. *Inactive subscriptions, that is, prepaid cards where a call has not been made or received within the last 3 months, are excluded.*

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).
- **Fixed broadband** includes one of the following Internet access services (technology) that enable a high-speed Internet connection (256 or more kbit/s, in one or both directions): xDSL (ADSL etc.) lines, Cable modem (CATV), Fibre (FTTx) and Fixed wireless connections (FWA) including Satellite broadband Internet, Ethernet LANs, Wireless Local Area Network and WiMAX.

Note: Usage of **3G mobile services** (CDMA or UMTS) usually via 3G modem and dedicated data subscriptions and **Wi-Fi** are included here only if these services are used as the transport mechanism of Internet service providers. This is often case in the Czech Republic

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 Telecommunication infrastructure and traffic in the CR

	thousand/million		
	2007	2008	2009
Fixed telephone lines (thous.)	2 354	2 264	2 070
residential lines	1 395	1 273	1 161
business lines	935	969	889
others	24	22	20
Mobile phone subscriptions (thous. active SIM cards)	13 055	13 571	13 415
pre-paid	7 207	7 077	6 375
post-paid	5 849	6 493	7 040
Outgoing fixed telephone traffic (mil. minutes)	3 751	2 875	2 579
domestic	3 544	2 692	2 430
international	207	184	149
Outgoing mobile phone traffic (mil. minutes)	10 882	12 698	13 824
domestic	10 497	12 351	13 509
international	385	347	315

Figure A1 Telephone subscriptions per 100 inhabitants

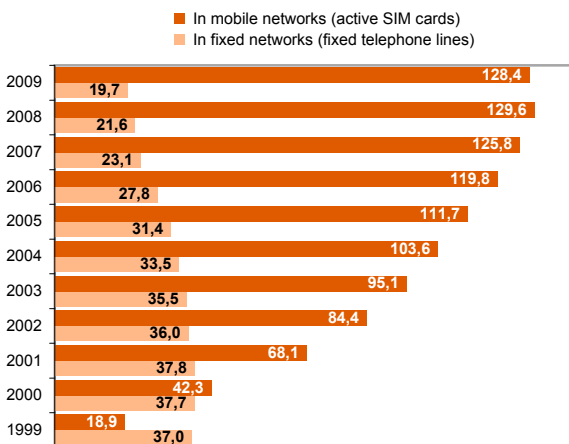
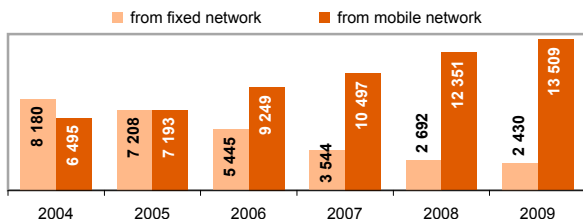


Figure A2 Domestic outgoing telephone traffic (mil. minutes)



Source: Czech Telecommunication Office

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Figure A3 Fixed telephone lines per 100 inhabitants

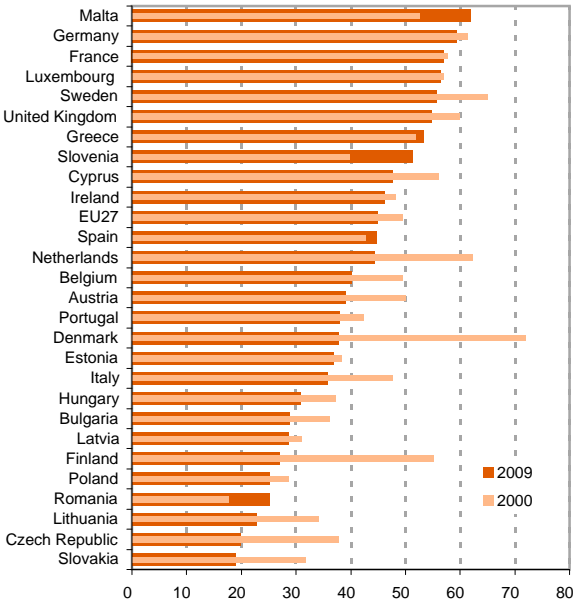
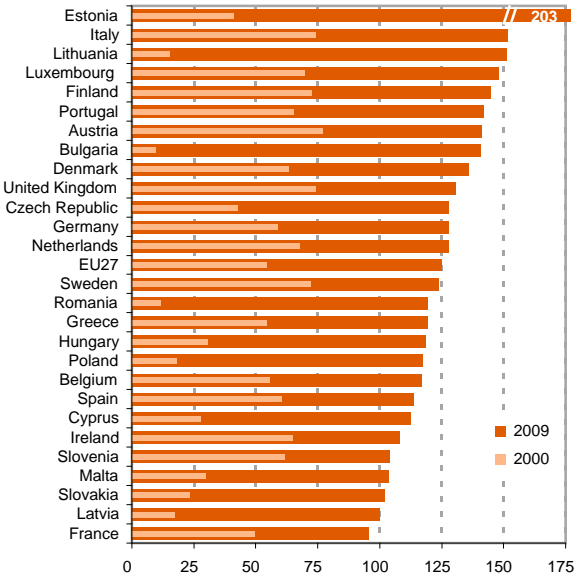


Figure A4 Mobile phone subscriptions (active SIM cards per 100 inhabitants)



Source: International Telecommunication Union, 2010

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Tab. A2 Fixed broadband subscriptions by technology in the CR

	thousand		
	2007	2008	2009
Total	1 679	2 036	2 376
DSL (ADSL) lines	613	697	778
Fixed wireless access (FWA)	520	610	680
Cable modem (CATV)	309	383	442
Mobile networks (CDMA or UMTS)	182	277	371
Fibre (FTTx)	55	70	105

Figure A5 Fixed broadband subscriptions (thousand)

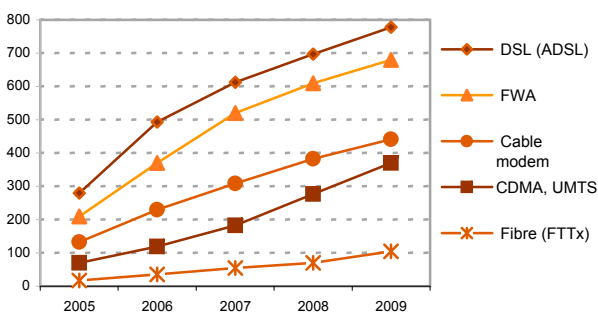


Figure A6 Fixed broadband subscriptions by technology; 2009

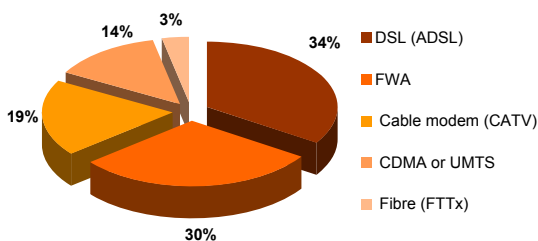
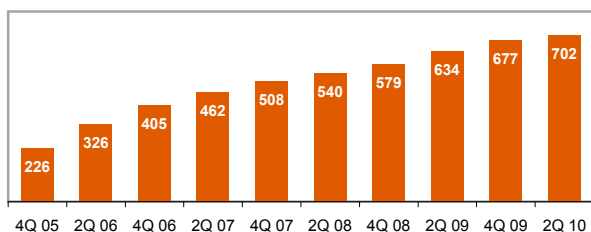


Figure A7 ADSL internet subscriptions from Telefonica O2 (thousand)

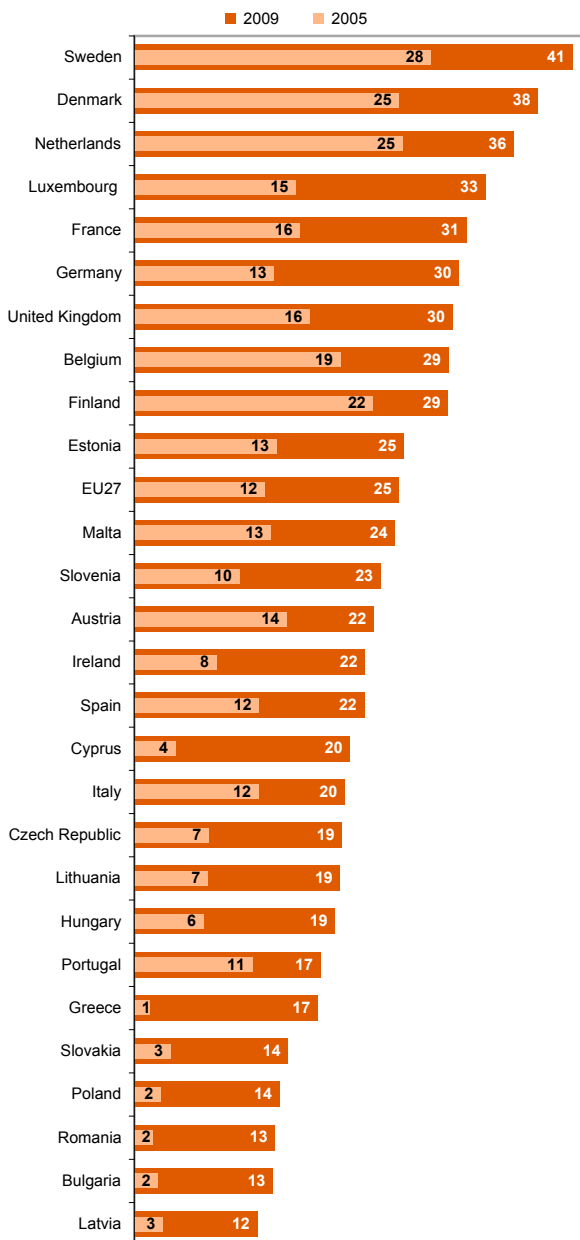


Source: TO2 - Telefónica O2 Czech Republic, Inc.

Source: Czech Telecommunication Office

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Figure A8 Fixed broadband subscriptions per 100 inhabitants



Source: International Telecommunication Union, 2010

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Figure A9 Fixed broadband subscriptions per 100 inhabitants by technology; June 2010

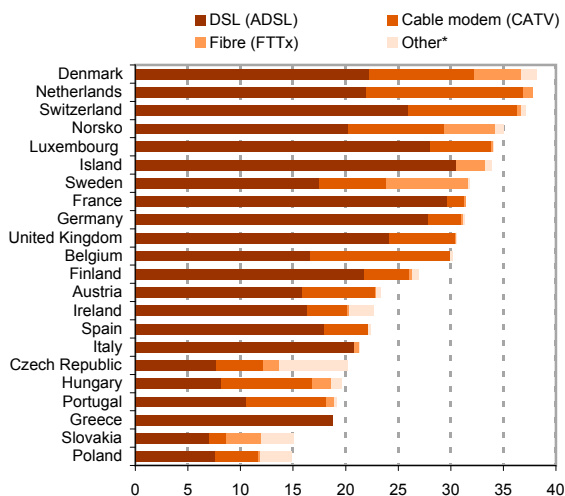
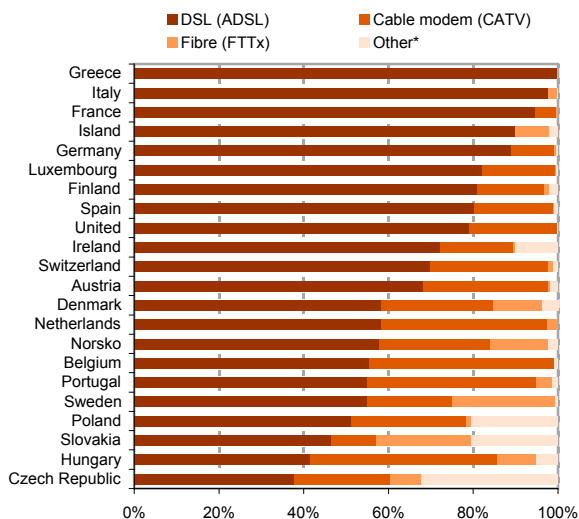


Figure A10 Fixed broadband subscriptions by technology (%); June 2010



* it includes fixed wireless technologies; BPL and Leased lines. It does not include 3G mobile technologies and Wi-Fi except in case that Wi-Fi/3G is the transport mechanism of a fixed-wireless provider (e.g. in rural UK, CZ)

Note: data for fibre and some other broadband technologies are not always available for all countries

Source: OECD, 2010