

22. INFORMATION SOCIETY

The information society statistics aim is, on one hand, to provide data on the production and supply of advanced information and communication technologies, including data on investments, external trade, qualified human resources in this field and, on the other hand, on the penetration, rate, and forms of these technologies and systems utilisation in enterprises, households, public administration, education, and health.

The term of **information and communication technologies** (hereinafter as the ICT) shall generally mean technologies as mobile phones, computers, and the Internet and systems, activities and processes connected to them, which contribute to the imaging, processing, storage and transmission of information and data in an electronic form.

Data given in this Chapter were acquired, in most cases, from regular statistical surveys of the CZSO, that is, first of all, from annual surveys on the ICT use in respective sectors of the society and, furthermore, from statistics of the Czech Telecommunication Office and on the Ministry of Education, Youth and Sports.

Notes on Tables

Table 22-1 and 22-2 Telecommunication and Internet infrastructure

Data are taken from data sources of the Czech Telecommunication Office, except for the number of registered domains.

A **subscriber to publicly accessible services of electronic communications** shall mean a person, which has concluded a contract on the use of such services with a provider. Data in the tables include solely services provided in the retail segment, i.e. services provided to end users.

A **subscriber's PSTN station** is a set of technical means defined by an active end point of the public switched telephone network and unambiguously determined by the telephone exchange ending. The subscribers' stations are further classified as **residential telephone lines** and **business telephone lines**. **Public telephone boxes** or **slot machines** are also counted as subscribers' stations.

A **subscriber's Voice over Internet Protocol (VoIP) telephone station** shall mean voice service provided by means of the VoIP technology also called IP (Internet Protocol) telephony, which enables voice transmission over packet-switched data networks and signal transmission by means of Internet Protocol (IP) packets. Voice services by means of the VoIP technology are an alternative to voice services provided by means of the traditional public switched telephone network. The number of subscriber's VoIP stations corresponds to the number of active geographic numbers, i.e. the number of telephone numbers used by the subscribers.

A **subscriber's telephone station of a public fixed telephone network** includes public accessible telephone services provided by means of public switched telephone network (PSTN) lines (formerly called main telephone stations) and by means of VoIP lines.

The **SIM card** is a subscriber's identification card serving for the identification of the subscriber in the public mobile telephone network. They involve both **prepaid SIM cards**, when the customer does not conclude any contract with the provider and only prepays a certain amount, which the provider deduces payments for services provided from, and **subscription SIM cards**, also called **post-paid SIM cards**, when customers have concluded an agreement with the operator, on the basis of which they pay for services according to monthly invoices.

Only SIM cards, which were used at least once in the last three month for originating and terminating of calls, sending of SMS, MMS, or for data services, are considered to be the **active prepaid SIM cards**.

The **broadband Internet access** is a **permanently** available access to the Internet with nominal speed ≥ 256 kb/s towards the subscriber (download). The service subscriber can be both natural and legal person, which has a contract concluded with a service provider. The number of subscribers to this service is measured on the basis of the number of access points where subscribers are provided with the service for one of below mentioned technologies employed for the Internet access. In majority of cases the number corresponds to the number of agreements concluded for the services providing in the retail segment.

The broadband Internet access by means of **Digital Subscriber Line (DSL)** technology enables broadband connectivity by means of the metallic line (telephone line). At present, the most frequently used types of this connection are ADSL and VDSL, which feature asymmetric connection when the speed of data transmission to the user (downloaded) is higher than that of data sent from the user towards the Internet (uploaded).

The broadband Internet access by means of a **cable television network (CATV)** is expressed as the number of **cable modems** by means of which subscribers are provided with broadband Internet access.

The broadband Internet access by means of **optical fibre (FTTx)** includes optical connections of the type of Fibre to the Home (FTTH), when the optical fibre takes the optical connectivity to the dwelling, and Fibre to the Building (FTTB), when the optical fibre takes the optical connectivity to the building only and indoor the connection is distributed by other means (by a radio network or over a fixed local network, for instance).

Fibre to the x (FTTx) is a general name of all types of the broadband network architecture that applies optical fibre.

The broadband **wireless** Internet access includes the connection by means of a radio line both in licensed frequency bands (in common use by technologies of Fixed Wireless Access (FWA) and in frequency bands with no licence required (most frequently based on the Wireless Fidelity (Wi-Fi) technology).

Fixed Wireless Access (**FWA**) is the description of fixed wireless access by means of a radio connection. It is characteristic by the permanent and fixed placing of the end point device. Sometimes this alternative is also called Wireless Local Loop (WLL).

The **WiFi** is the broadband connection by means of a radio network using technologies compliant with the standard IEEE 802.11. This type of connection is sometimes called Wireless Local Access Network (WLAN) as well.

The broadband **mobile Internet access** includes the connection by means of mobile telephone networks within standard voice and data services (**temporary / ad hoc access**) or offered as separated from voice services with potential of **permanent** accessibility (**dedicated access**). This access is implemented by means of SIM cards or data cards/modems compliant with the standards of Code Division Multiple Access (CDMA), or Universal Mobile Telecommunication System (UMTS), or Long Term Evolution (LTE). The number of standard (temporary) Internet accesses by means of a mobile network is expressed as the number of active SIM cards which use ad-hoc service of internet access. The number of permanent Internet accesses by means of a mobile network is expressed as the number of active SIM cards or data cards which use the permanent (dedicated) service of Internet access.

A **domain** (an **Internet domain** or also a **domain name**) is a unique name (identifier) of a computer or a computer network connected to the Internet. The domain of second level, i.e. a domain name is registered at a registrar authorized to administer respective top level domains as .cz or .com, for instance.

Table 22-3 and 22-4 ICT specialists

The occupations of ICT specialists are subdivided into two major groups while their classification is based on the Classification of Occupations (CZ-ISCO) the corresponding national classification in the Czech Republic developed on the basis of the International Standard Classification of Occupations (ISCO-08) developed by the International Labour Organisation (ILO). The ICT specialists are assigned to the major groups, groups, and subgroups of the CZ-ISO based on recommendations of Eurostat and the ILO as follows:

Information and communications technology professionals (hereinafter as the ICT professionals)

- 133 Information and communications technology service managers
- 2152 Electronics engineers
- 2153 Telecommunications engineers
- 2434 Information and communications technology sales professionals
- 25 Information and communications technology professionals
 - 251 Software and applications developers and analysts
 - 252 Database and network professionals

Information and communications technicians (hereinafter as the ICT technicians)

- 3114 Electronics engineering technicians
- 35 Information and communications technicians
 - 351 Information and communications technology operations and user support technicians
 - 352 Telecommunications and broadcasting technicians
- 742 Electronics and telecommunications installers and repairers

The data on the **numbers of ICT professionals** (Table 22-3) come from the Labour Force Sample Survey (LFSS) of the CZSO (table presents average annual data for given years). Data since 2011 are not fully comparable with data for the previous years because of transition to the ICT professionals' definition by the CZ-ISCO in 2011. Detailed data on the LFSS are available in Chapter 10 Labour Market, Part B.

Data on **wages of the ICT specialists** (Table 22-4) come from the structural employee wage statistics which is generated by merging of databases of the sample survey of the Information System on Average Earnings of the Ministry of Labour and Social Affairs, which covers the wage sphere, and from the database of the administrative data source of the Salary Information System of the Ministry of Finance, which exhaustively covers the salary sphere. Data in the Table are available only for the ICT professionals defined rather narrow, which includes the two sub-major groups of CZ-ISCO as follows:

- 25 Information and communications technology professionals, and
- 35 Information and communications technicians.

Detailed data on the structural employee wage statistics can be found in Chapter 10 Labour Market, Part A, exactly in notes to Tables 10-4 and 10-5.

Tables 22-5 Investments into ICT equipment and software

Investments into ICT equipment and software in the table shall mean the gross fixed capital formation (P.51), which includes acquisitions fixed assets (P.511) and expenses for transition of non-produced assets into ownership (P.512) classified to the groups of the Classification of Products by Activity (CZ-CPA) as follows:

ICT equipment

- 26.2 Computers and peripheral equipment;
- 26.3 Communication equipment; and
- 26.4 Consumer electronics

Software

- 58.2 Software publishing services;
- 62.0 Computer programming, consultancy and related services; and
- 63.1 Data processing, hosting and related services; web portals.

In 2014 the calculation of ICT investments was changed within the revision of national accounts according to a new international standard of ESA 2010. This change, which brought an important increase in investments in this field, was implemented back in the whole time series observed.

This means mainly that expenditure on small property as smartphones, notebooks, or tablets, which are used in the production process for a period longer than one year, is included into investments (small property capitalisation). According to the previous standard for national accounts of the ESA 1995 this expenditure was taken as consumed materials, energy, and services. The calculation of the own development software capitalisation was also made more precise within the national accounts revision.

Investments into computer and telecommunication equipment became a part of a newly created item of non-financial assets as ICT equipment (AN.1132). Computer software and databases (AN.1173) newly involve two sub-items as follows: Computer software (AN.11731) and Databases (AN.11732).

The data come from the annual national accounts statistics. Detailed information is available in Chapter 5 National Accounts.

Tables 22-6 Household consumption expenditure on ICT equipment and services

The table gives data on the final consumption of households in the national concept, which includes expenditure of residents in the Czech Republic and abroad spent on ICT products and services dedicated to direct satisfaction of needs and wishes of individuals.

In order to define the ICT areas the national version of the international standard of the Classification of Individual Consumption by Purpose (CZ-COICOP) was applied to set the areas by items as follows:

ICT equipment

Telephone and telefax equipment (CZ-COICOP 08.2)

Computers and other ICT equipment

- Equipment for the reception, recording and reproduction of sound and picture (CZ-COICOP 09.1.1);
- Photographic and cinematographic equipment and optical instruments (CZ-COICOP 09.1.2);
- Information processing equipment (CZ-COICOP 09.1.3);
- Recording media (CZ-COICOP 09.1.4);
- Repair of audio-visual, photographic and information processing equipment (CZ-COICOP 09.1.5).

ICT services

- Wired telephone services (CZ-COICOP 08.3.0.1);
- Wireless telephone services (CZ-COICOP 08.3.0.2);
- Internet access provision services (CZ-COICOP 08.3.0.3);
- Bundled telecommunication services (CZ-COICOP 08.3.0.4).

Tables 22-7 to 22-8 External trade in ICT goods and services

Goods and services in the field of information and communication technology (hereinafter as the **ICT goods and services**) are defined as goods or services, which core function is to implement or enable communications or information processing, including their electronic transmission and imaging (OECD 2009).

The **list of ICT goods**, that is used for the external trade statistics, is based on the Harmonised System Nomenclature (HS Nomenclature 2007), a classification of goods used for the international trade. ICT goods, for purposes of the external trade statistics, is divided into the five main categories as follows:

- Communication equipment;
- Computers and peripheral equipment;
- Consumer electronics;
- Electronic components; and
- Miscellaneous ICT components and goods.

Detailed definitions of main groups of the ICT goods are available on the CZSO web pages in the section Statistics – Information Technology – Information Economy under the link External Trade in the ICT Goods.

Data on exports and imports of the ICT goods come from data outputs of the external trade statistics (External Trade Statistics Database of the CZSO). Detailed information is available in Chapter 11 External Trade.

Data on exports and imports of the ICT services come from the CZSO direct survey on exports and imports of services. Respective items of the ICT services are then defined according to the international classification of Extended Balance of Payment Services (EBOPS 2010). The ICT services are subdivided into three categories as follows:

Telecommunications services (code SI1);

Other computer services (code SI22); and

Computer software and Licences to reproduce and/or distribute computer software (codes SI21 and SH3).

Telecommunication services (code SI1) include, first of all, transactions of Czech and foreign telecommunication operators for implemented international calls by means of fixed or mobile telephone networks. In the case of telecommunication services exports the phone call from abroad to the Czech Republic, it is a payment the Czech operator receives from the foreign operator for the arrangement of the international call. In the case of telecommunication services imports the phone call from the Czech Republic to abroad it is a payment the foreign operator receives from the Czech operator for the arrangement of the international call. Other telecommunication services involve payments for the access to the Internet, cable television, and to other computer networks, including providing of services as electronic mail, video conferences, or transmitting of audio-visual signal over the Internet, cable networks, or by means of satellites.

Computer services (code SI22) consist mainly of **consultancy services** in the fields of hardware and software of computers, including maintenance and repairs of both hardware and software and services related to data processing.

Computer software (code SI21) involves purchase and sale of original production of tailor-made software and application (**original computer software**), including purchase and sale of ownership rights to such software or licence fees for the software use. Furthermore, it is also purchase and sale of **standard software** and applications supplied over the Internet, including purchase and sale of ownership rights to such software or licence fees for the software use. Computer services does not include purchase and sale of standard software packages supplied on physical media carriers (CD-ROMs, flash disks, etc.), or as a part of hardware (as Microsoft products, for instance), which are considered to be goods and are reported within external trade in goods. Purchase and sale of permanent licences for the use of standard software packages supplied on physical media carriers or as a part of hardware. The computer software includes, within imports and exports of ICT services, also **licences to reproduce and/or distribute computer software** (code SH3).

Table 22-9 Basic indicators of enterprises of the information economy industries

The **information economy sector** is a new alternative grouping of economic activities defined within the International Standard Industrial Classification of All Economic Activities (ISIC), Revision 4 and according to the OECD standards for economic activities included both in the ICT sector and into the information and media one.

The **ICT sector** is defined as a combination of economic activities of manufacturing products (technology) or providing services primarily dedicated to processing, communication, and distribution of information electronically, including information commissioning, storage, transmission, and imaging.

The **information and media sector** is defined as a combination of economic activities producing, issuing, and/or distributing content primarily dedicated to inform, educate, and/or entertain people by means of mass media (communication means).

The **information economy sector** involves businesses, which dominating activities belong to the CZ-NACE groups and classes as follows:

ICT manufacturing:

Group 26.1 – Manufacture of electronic components and boards;

Group 26.2 – Manufacture of computers and peripheral equipment;

Group 26.3 – Manufacture of communication equipment;

Group 26.4 – Manufacture of consumer electronics; and

Group 26.8 – Manufacture of magnetic and optical media.

Trade in ICT:

Group 46.5 – Wholesale of information and communication equipment.

Telecommunication activities:

Group 61.1 – Wired telecommunications activities;

Group 61.2 – Wireless telecommunications activities;

Group 61.3 – Satellite telecommunications activities; and

Group 61.9 – Other telecommunications activities.

IT services:

Group 58.2 – Software publishing;

Class 62.01 – Computer programming activities;
Class 62.02 – Computer consultancy activities;
Class 62.03 – Computer facilities management activities;
Class 62.09 – Other information technology and computer service activities;
Group 63.1 – Data processing, hosting and related activities; web portals; and
Group 95.1 – Repair of computers and communication equipment.

Information and media activities:

Group 58.1 – Publishing of books, periodicals and other publishing activities;
Group 59.1 – Motion picture, video and television programme activities;
Group 59.2 – Sound recording and music publishing activities;
Group 60.1 – Radio broadcasting;
Group 60.2 – Television programming and broadcasting activities; and
Group 63.9 – Other information service activities.

Indicators in these tables were obtained from the annual structural survey of business entities from selected production industries providing a detailed range of final data, which are available at a longer time delay.

Detailed information on the publishing of the data from the annual structural survey of business entities from selected production industries, including definitions of respective indicators, is available on the CZSO website in the section Statistics - Information Technologies - Information Economy.

Tables 22-10 to 22-14 ICT and their utilisation in enterprises

The data are based on the **annual survey on the ICT utilisation in the business sector**. This survey is carried out on a selected sample of approx. seven thousand enterprises with 10+ employees in selected economic activities. Results are then grossed up to the whole population of the enterprises monitored.

The **reference period** shall mean January of a given year (Tables 22-10 to 22-12). In the case of e-commerce (Tables 22-13 to 22-14) the data relate to the whole previous year.

Enterprises with an internal computer network shall mean enterprises using an internal computer network interconnecting at least two computers for the purpose of sharing of information, files, internal emails, and applications within the enterprise.

Enterprises with the intranet shall mean enterprises using internal websites with content and services designed exclusively for authorized users within the enterprise

Enterprises with the extranet shall mean enterprises using special websites or extension to the intranet to communicate (transmission of information and documents online) with its authorised suppliers, resellers, dealers, partners, customers, and other entities that due to organisation, commercial, or locality reasons out of the enterprise headquarters. Solely authorized users can access the extranet (via log in).

Enterprises with websites shall mean enterprises using the web pages, which content they may affect themselves for the purposes of official presentation and offering of products and/or services. These also include web pages shared with other legal person. These do not include web pages on information servers (portals).

Cloud computing shall mean the use of paid services enabling to share and have remote access to calculation tools and data storage facilities by means of the Internet. The cloud service provider lease computing tools and devices (hardware and software) to the users as their needs may be. This way the users may not own, maintain, or update the tools and devices. The services are reimbursed proportionally to their consumption or as at in advance agreed volume.

Enterprise Resource Planning (ERP) is business process management software that allows an organization to use a system of integrated applications to manage the business and automate many back office functions related to technology, services and human resources.

Customer Relationship Management (CRM) shall mean software application used to collect, integrate, process and analyse information on customers to manage business relationships.

Enterprises using social media shall mean enterprises that have used their profile, account, or licence of social media. The main social media communication platforms and tools are social networks (e.g. Facebook, LinkedIn), blogs or microblogs (e.g. Twitter), multimedia content sharing websites (e.g. YouTube, Flickr), or Wiki-based knowledge sharing tools (e.g. Wikipedia).

The **use of electronic invoicing** shall mean a form of electronic billing. There are two types of invoices sent via electronic way as follows:

- The electronic invoices (e-invoice) processable by automated data processing tools. Issuer of the invoice (seller or service provider) upload the invoice into the recipient (customer) software applications which deal with it. The transmission format may be, for instance, edi, xml, isdoc, idoc, csv, or other formats used by invoicing software producers; and

- The electronic invoices in a format that does not enable them to be processed automatically (non-structured invoices). These are, for instance, invoices sent in as a text by means of standard email, or invoices sent in as an email attachment in the pdf format, for example.

Electronic commerce (e-commerce) shall mean purchases or sales (placing or accepting orders) via the Internet or other computer networks through websites or the electronic data interchange (EDI), regardless the method of payment or delivery. Purchases (sales) implemented on the basis of orders prepared from information obtained on the Internet but placed in a traditional way (by phone, fax, or written order) or by electronic mail are not included.

Table 22-15 Households having access to a phone

The table gives data from the sample survey of the **Household Budget Survey (HBS)**, which monitors private household economy and provides information on household expenditure and the structure of household consumption. Data on how households are equipped with fixed telephone lines and mobile phones as at the end of the reference year come from the same source as well. Detailed information on the HBS and interpreting of its outcomes can be found in Chapter 9 Household Income and Expenditure.

Pensioner households shall mean households, in which, besides the head of household that receives disability or old-age pension and does not work at all, or his/her economic activities are limited, also other household members are either economically inactive at all, or their economic activities are limited.

Tables 22-16 to 21-25 ICT in households and its utilisation by individuals

The data are based on the **Sample Survey on the ICT Utilisation in Households and by Individuals**, which had been carried out within the LFSS since 2005 and since 2012 it has been performed within the Integrated Household Surveys (IHS). The survey is carried out using the Computer Assisted Personal Interviewing (CAPI) method on the sample of about 10 000 individuals aged 16+ years. In line with the LFSS and ISH methodologies, the results were imputed to the whole population of the Czech Republic.

Concerning data on households the existing status in the reference period (2nd quarter of a year monitored) is obtained; data for individuals are for the last three months before the survey implementation, except for data on the Internet use for shopping (Table 22-23), data on the computer use for dealing with public administration (Table 22-24), and computer literacy of the population (Table 22-25) where data are for the reference period of 12 months before the survey implementation.

Households with computer involve all households, which at the time of the survey stated, that at least one of the household members had an access to a personal computer at home. The household does not need to be in possession of the computer (it may be employer's computer, one borrowed from friends, etc.) yet this computer should be functional and located at home. A portable computer may not be permanently located at home, it may be in use at work or at school.

The **portable computer** shall mean a type of the personal computer which can be used at various places because it is lightweight (most often weights from 1 to 3 kilograms) and is small in size. The portable computer can be connected to the grid yet it works supplied from its own batteries. The most often used names for the portable computer are **notebook** or **laptop**, respectively. The **tablet**, a computer equipped with a touchscreen, is also considered a portable computer.

Households with the Internet include all households, which at the time of survey stated, that at least one of the household members had an access to the Internet at home. It does not matter what type is the device used (desktop computer, portable computer, mobile phone, digital TV, game deck, or other device), or the way of connection.

The **broadband Internet access** shall mean an access to the Internet with nominal download speed ≥ 256 kb/s.

A **method the household is connected to the Internet** includes merely the type of household connectivity delivered by the provider and not a method of potential sharing of this connectivity by multiple computers within one household.

Households of persons aged 65+ years with no children shall mean households in which merely person aged 65+ years live.

Households of persons aged up to 40 years with no children shall mean households in which merely person aged up to 40 years, who have no unprovided child, live.

Households with children shall mean households with unprovided children up to 15 years of age, included.

Individuals using the information and communication technologies (users of the mobile phone, PC, or the Internet) are such individuals who have used such technologies at least once in the last three months anywhere (at home, work, school, etc.) and for whatever reason (private or work).

The **Internet use** shall mean any activity on the Internet carried out in an active manner, for instance, browsing of websites, downloading of files, using emails, from any location (household, school, work, etc.) for any purpose (private, work, etc.) both on computers (including portable ones) and mobile phones, smartphones, game decks, etc.

Individuals using the Internet in the mobile phone include persons who gave that they had used a mobile phone (smartphone) to access Internet services. It does not matter if the phone was private or employer's or borrowed and also it does not matter what type of connection was used to access the Internet (mobile networks, WiFi).

Internet activities monitored are activities on the Internet, which respondents carried out for **private purposes** in the last three months before the survey implementation date. Only the cases of an on-line purchase and the Internet use in the interaction with public administration have the reference period of twelve months before the survey implementation date.

Individuals using social networks on the Internet are those who were active in social networks in the last three months on discussion forums or chats, have connected to interest groups within the network, and made contacts. The social network is a service which enables its users to establish so-called profile (by filling in personal information, photographs, etc.) and then to group with other users (for example, on the basis of friendship in real life or common interest and hobbies) and to communicate by means of the network.

A **purchaser over the Internet** shall mean a person who in the last 12 months purchased or ordered any goods or services through an electronic way. The act of purchase shall mean purchase for private purpose. This does not include purchase for the employer, school, or other organisation. Goods or services ordered may not be paid over the Internet, goods or services may be delivered on-line (over the Internet) or off-line (mail, or in person). Mere decision on the purchase on the basis of information acquired through the Internet is not considered to be an Internet purchase. The same holds for purchases implemented on the basis of orders, which were placed by a classic, written, and sent e-mail.

Educational attainment in the case of the ICT utilisation by individuals is published for the age group 25+ years. There is a lot of student in the age 16–24 years, who have low educational attainment, yet they use ICT in a very intensive way. Thus if the age group 16–24 years is not included it enables to make a more accurate assessment of the educational attainment effect on the ICT use.

A **student** shall mean an individual who stated that studies are their prevailing activity. They may have some gainful activity as a minor one.

Table 22-25 University students and graduates of ICT fields of education

Numbers of students and graduates in the table are given as headcount, i.e. each student is included in a particular piece of data only once, including students, who study in more study programmes at the same time. The total numbers of students and graduates thus do not have to be equal to the sums of students and graduates of respective types of study programmes.

Information and communication studies are defined by the international classification of the ISCED-F 2013, class 06 Information and Communication Technologies that involves detailed defined fields of education as follows:

Computer use (0611);

Database and network design and administration (0612);

Software and applications development and analysis (0613);

Information and communication technologies not elsewhere classified (0619); and

Inter-disciplinary programmes and qualifications involving information and communication technologies (0688).

The data were obtained from data sources of the Ministry of Education, Youth, and Sports, being concrete from the Union Information from Students' Registers. The source database of SIMS is continually completed and updated, including retrospective corrections. Data published in this Yearbook correspond to the state of processing as at 20 January 2017. Data on university students are always as at 31 December of the reference year; data on graduates are for the entire school year.

Table 22-26 Personal computers in schools in 2016

Data on ICT hardware and software in schools in the Czech Republic come from data sources of the Ministry of Education, Youth and Sport, which collects data on available IT infrastructure in basic, secondary, and higher professional schools.

Due to the methodology the total average numbers for the Czech Republic are lower than appropriate numbers of respective stages of schools. The reason is that in many school buildings classes are taught to multiple stages and/or types of schools and therefore the same computer is often available to and thus counted for pupils of several stages and/or types. Yet the computer is counted into the average of all school stages and/or types only once.

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Further data can be found on the website of the Czech Statistical Office at:

– www.czso.cz/csu/czso/information_technologies