

## Introduction

The role of **information and communication technologies (ICT)** has received considerable attention in the last decade or so due to their exceptional role in enhancement of economic growth and social change. Even though the production and the expansion of ICT varies significantly among countries, a general agreement prevails that it is necessary to collect reliable and comprehensive ICT indicators in order to assess the impact of these technologies on growth, productivity or innovation.

The aim of **ICT statistics** is, on one hand, to provide data on the production of advanced ICTs, including data on investments, external trade or qualified human resources in this field (**digital economy**) and, on the other hand, to track data on the penetration and usage of these technologies in particular sectors of society such as households, enterprise sector or public administration (**information society**).

This brochure, its **eleventh edition**, was compiled in order to provide again a comprehensive overview of statistical indicators about the development of the digital economy in the Czech Republic and where possible also in other, mainly EU, countries.

The brochure consists of the following **five chapters**:

- Chapter A: '**ICT specialists and students**' provides information about **employment** in ICT specialist occupations both for ICT professionals and ICT technicians together with data about their **wages**. Data on the **university students and graduates of ICT fields of education** is also included here.
- Chapter B: '**ICT investments**' includes detail information about total ICT investment **by asset type and industry**. Data on **household expenditures** on ICT equipment and services is also included here.
- Chapter C: '**ICT research and development**' provides both data on the total financial resources invested in research and development (R&D) in ICT equipment and software and data about R&D expenditures and personnel in enterprises with the main economic activity that belongs to the ICT sector.
- Chapter D: '**ICT external trade**' includes detail data about exports and imports both in the ICT goods and ICT services.
- Chapter E: '**ICT sector**' consists of main economic indicators for industries that are primarily engaged in the production of ICT goods and services.

Data given in this brochure were acquired, in most cases, from regular statistical surveys or databases of the **Czech Statistical Office**. International comparisons were compiled by the Czech Statistical Office based on freely available Eurostat, OECD or UN data sources.

Whenever possible, the data used in this brochure are based on the standards included in **The OECD Guide to Measuring the Information Society** (Paris, 2011). This publication summarizes the statistical standards and definitions developed by the OECD Working Party on Indicators for the Information Society.

If you need any further information, do not hesitate to contact us directly. Your suggestions will be incentives for future releases.

**In Prague, January 2020**

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