

## Chapter C: ICT investment

Investments in information and telecommunication technologies (hereafter **ICT investment**) are the main channel through which digital transformation unfolds. Businesses and government institutions adopt digital tools and new business models enabled by digitalisation by investing in computer hardware, software and databases.

Investment here shall mean the **gross fixed capital formation** (GFCF: P.51), which includes mainly acquisitions of fixed assets (P.511) and expenses for transition of non-produced assets into ownership (P.512). The definition of GFCF follows **The European System of Regional and National Accounts** (ESA 2010): <http://ec.europa.eu/eurostat/web/esa-2010>

ICT investment is **defined** as the acquisition of ICT assets that have been used in production for more than one year. According to the System of National Accounts (SNA) and the ESA 2010, the following two items of non-financial assets (AN) should be classified as ICTs:

- **ICT equipment** (AN.1132) that includes two sub-items as follows:
  - **Computer hardware** (AN.11321)
  - **Telecommunications equipment** (AN.11322)
- **Software** (Computer software and databases = AN.1173) that includes two sub-items as follows:
  - **Computer software** (AN.11731) includes computer programmes, programme descriptions, and supporting materials for both systems and application software, including original development of software and its subsequent version as well as making copies.
  - **Databases** (AN.11732) include(s) data files organised for cost-effective data access and use.

Data on investment in ICTs is available in the breakdown by **sector** based on the ESA 2010 Institutional Sectors Classification and by **industry based on CZ NACE** classification.

Detail data for Czechia come from the **Annual National Accounts Statistics. Data for the 2024 are preliminary**. For more information, see: <http://apl.czso.cz/pll/rocenka/rocenka.indexnu?mylang=EN>

Data for the **international comparisons** come from the **Eurostat database** and refer to the reported or nearest available year. Measuring prices and volumes of ICT investment is a challenging task, due to frequent changes in quality and specifications of ICT asset. The ICT investment intensity is main indicator used for international comparison. This indicator measures ICT investment as a share of gross domestic product (GDP). It provides a measure of ICT diffusion throughout the economy

**For more information on ICT investment see:**

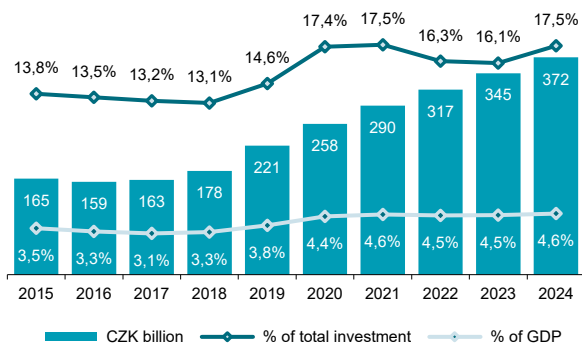
<https://csu.gov.cz/investment-in-ict>

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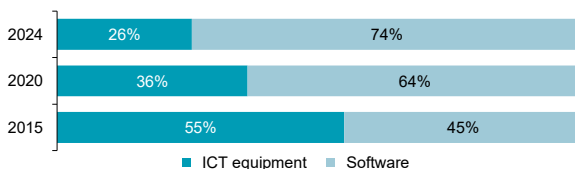
**Table C.1 Total ICT investment in Czechia**

	CZK billion		
	2022	2023	2024
<b>Total</b>	<b>317,4</b>	<b>345,3</b>	<b>372,4</b>
ICT equipment	90,3	84,0	95,6
Software	227,1	261,2	276,9
<b>Industry (CZ-NACE Section)</b>			
Agriculture, forestry and fishing	2,9	1,1	1,1
Mining and quarrying	0,5	0,8	0,3
Manufacturing	67,0	61,3	84,9
Electricity, gas and water supply	9,7	7,7	8,2
Construction	6,8	7,9	7,1
Wholesale and retail trade	23,7	24,6	22,3
Transportation and storage	9,6	8,5	8,2
Accommodation and food service activities	1,9	1,7	1,4
Information and communication	117,6	143,2	151,1
Financial and insurance activities	28,7	33,8	35,2
Real estate activities	3,9	3,8	2,4
Professional, scientific and technical activ.	17,0	17,2	20,7
Administrative and support service activities	5,0	7,0	6,5
Public administration and defence	12,4	14,2	12,2
Education	2,7	2,9	2,9
Human health and social work activities	4,7	6,2	4,3
Arts, entertainment and recreation	2,5	2,5	2,6
Other services	0,9	0,9	1,0

**Chart C.1 Total ICT investment in Czechia**



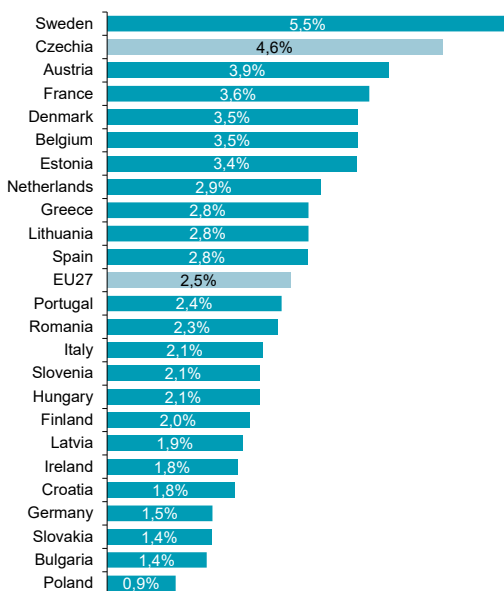
**Chart C.2. ICT investment in Czechia by type of asset**



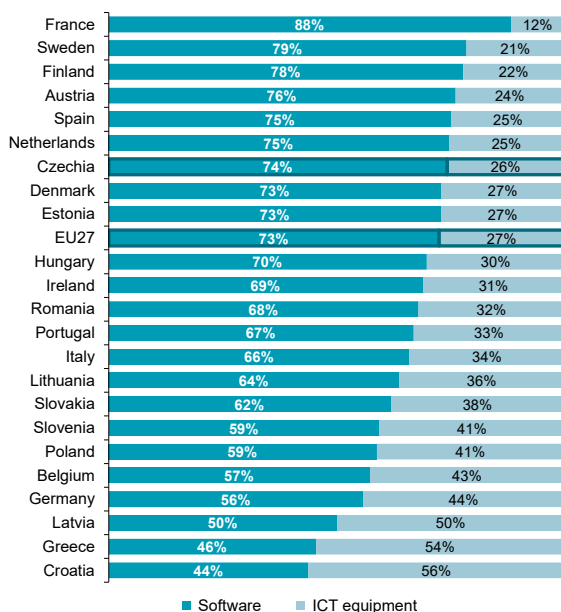
Source: Czech Statistical Office, National Accounts

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**Chart C.3 Total ICT investment intensity in 2024**  
(ICT investment as % of GDP)



**Chart C.4 ICT investment by type of asset in 2024**



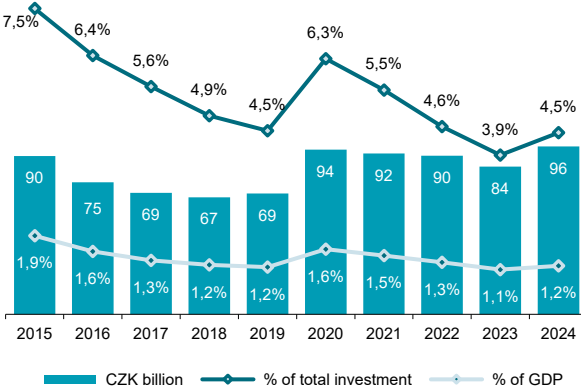
Source: The Eurostat National Accounts Database

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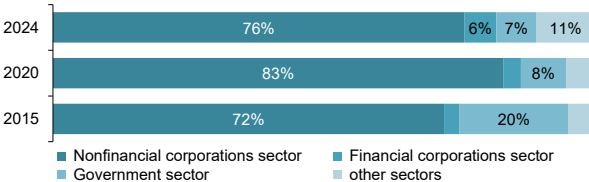
**Table C.2 ICT equipment investment in Czechia**

	CZK billion		
	2022	2023	2024
<b>Total</b>	<b>90,3</b>	<b>84,0</b>	<b>95,6</b>
in government institutions	7,6	10,5	7,1
<b>Industry (CZ-NACE Section)</b>			
Agriculture, forestry and fishing	2,6	0,5	0,5
Mining and quarrying	0,2	0,6	0,1
Manufacturing	44,0	37,9	59,2
Electricity, gas and water supply	4,0	1,9	1,6
Construction	5,0	5,6	4,5
Wholesale and retail trade	7,3	6,7	3,4
Transportation and storage	2,3	2,0	0,9
Accommodation and food service activities	1,2	0,9	0,5
Information and communication	4,2	3,9	2,3
Financial and insurance activities	4,2	4,6	5,6
Real estate activities	1,9	2,7	1,2
Professional, scientific and technical activ.	3,6	3,7	6,4
Administrative and support service activities	1,2	1,7	0,9
Public administration and defence	3,2	4,1	2,9
Education	1,5	1,8	1,6
Human health and social work activities	2,5	4,0	2,4
Arts, entertainment and recreation	0,6	0,7	0,7
Other services	0,5	0,6	0,7

**Chart C.5 ICT equipment investment in Czechia**



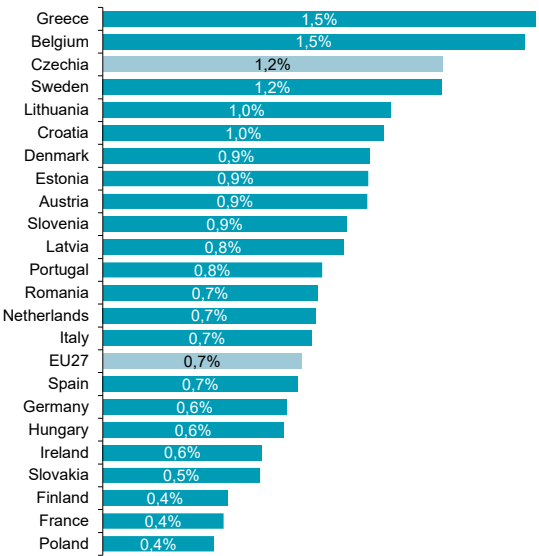
**Chart C.6 ICT equipment investment in Czechia by sector**



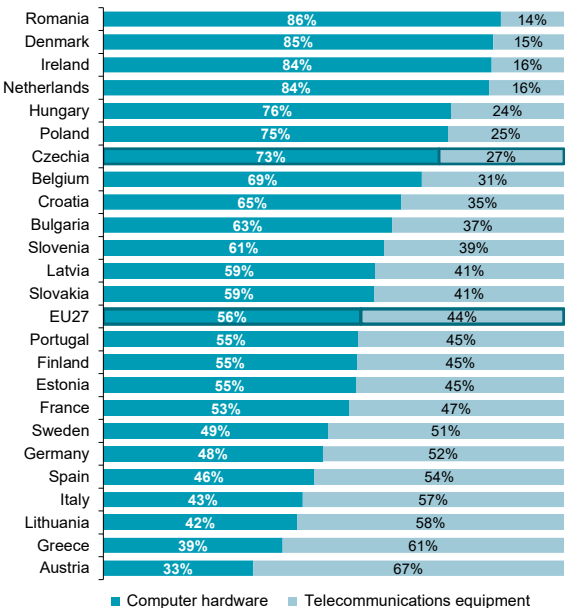
Source: Czech Statistical Office, National Accounts

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**Chart C.7 ICT equipment investment intensity in 2024**  
(ICT equipment investment as % of GDP)



**Chart C.8 ICT equipment investment by type of asset in 2024**



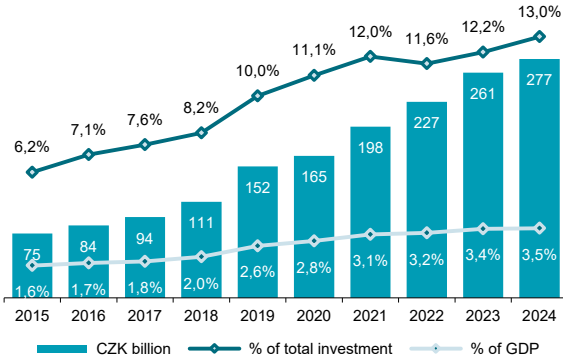
Source: The Eurostat National Accounts Database

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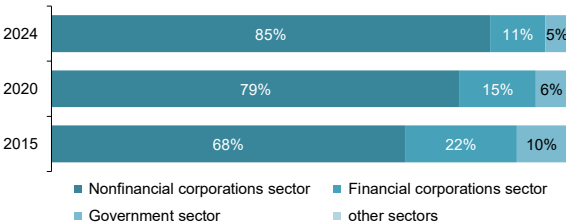
**Table C.3 Software investment in Czechia**

	CZK billion		
	2022	2023	2024
<b>Total</b>	<b>227,1</b>	<b>261,2</b>	<b>276,9</b>
in government institutions	11,7	13,6	12,7
<b>Industry (CZ-NACE Section)</b>			
Agriculture, forestry and fishing	0,2	0,5	0,6
Mining and quarrying	0,2	0,2	0,2
Manufacturing	23,0	23,5	25,7
Electricity, gas and water supply	5,7	5,8	6,6
Construction	1,8	2,3	2,5
Wholesale and retail trade	16,3	17,9	18,9
Transportation and storage	7,3	6,5	7,3
Accommodation and food service activities	0,7	0,8	0,9
Information and communication	113,4	139,2	148,7
Financial and insurance activities	24,5	29,2	29,5
Real estate activities	2,0	1,1	1,2
Professional, scientific and technical activ.	13,3	13,5	14,3
Administrative and support service activities	3,9	5,2	5,6
Public administration and defence	9,2	10,2	9,4
Education	1,3	1,1	1,3
Human health and social work activities	2,2	2,1	1,9
Arts, entertainment and recreation	1,9	1,8	2,0
Other services	0,3	0,3	0,3

**Chart C.9 Software investment in Czechia**



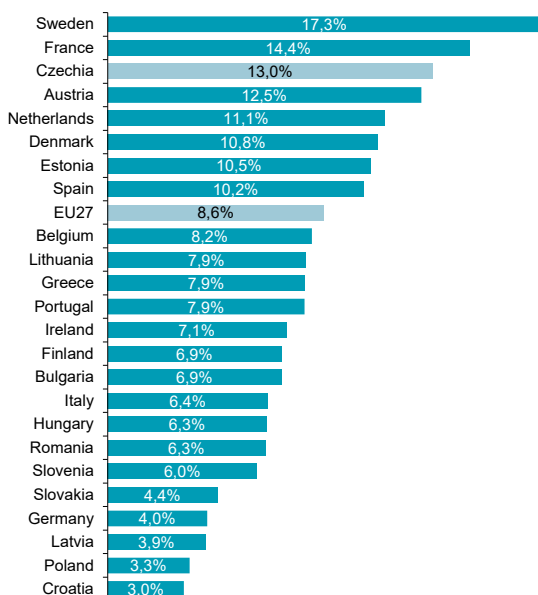
**Chart C.10 Software investment in Czechia by sector**



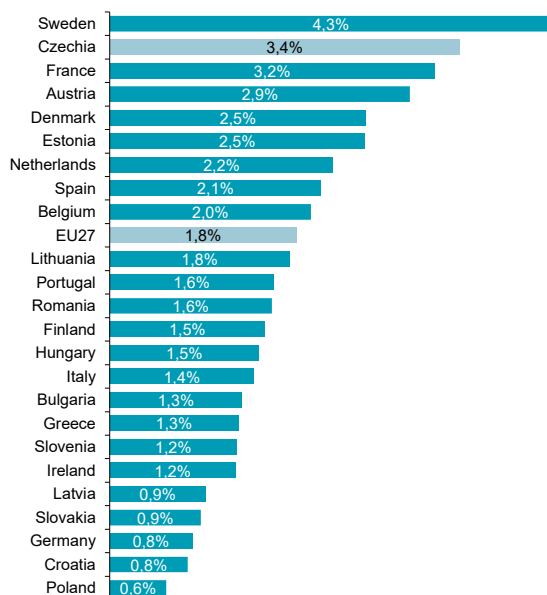
Source: Czech Statistical Office, National Accounts

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**Chart C.11 Software investment in 2024**  
(% of total investment)



**Chart C.12 Software investment intensity in 2024**  
(Software investment as % of GDP)



Source: The Eurostat National Accounts Database