NATIONAL STATISTICAL COMMITTEE OF THE REPUBLIC OF BELARUS

INFORMATION SOCIETY IN THE REPUBLIC OF BELARUS

Statistical book

MINSK 2025

NATIONAL STATISTICAL COMMITTEE
OF THE REPUBLIC OF BELARUS

INFORMATION SOCIETY IN THE REPUBLIC OF BELARUS

Statistical book

MINSK

2025

The data book presents official statistics on the main indicators of Information and Communication Technology (ICT) use by enterprises and households in Belarus, data on ICT infrastructure and activities in the ICT sector.

The data book is designed for government agencies, financial and economic departments, research institutions, higher education teaching staff, postgraduate and undergraduate students, and other interested users.

ISBN 978-985-7343-15-7

E-mail:*belstat@belstat.gov.by*
http://www.belstat.gov.by

FOREWORD

The data book was prepared on the basis of state statistical survey data on the form 6-икт "Questionnaire on the use of digital technologies in organisation" which was submitted by:

commercial organisations (except for small organisations without departmental affiliation, micro-organisations and private (peasant) farms) with the main economic activity in: Agriculture, forestry and fishing; Mining and quarrying; Manufacturing; Electricity, gas, steam, hot water and air conditioning supply; Water supply; waste management and remediation activities; Construction; Wholesale and retail trade; repair of motor vehicles and motorcycles; Transportation, storage, postal and courier activities; Accommodation and food service activities; Information and communication; Financial and insurance activities; Real estate activities; Professional, scientific and technical activities; Administrative and support service activities; Human health; Arts, sports, entertainment and recreation; Repair of computers and personal and household goods; Other personal service activities;

non-profit organisations whose main economic activity is: higher education and human health;

small organisations without departmental affiliation, micro-organisations and non-profit organisations whose main economic activity is in the ICT sector;

commercial organisations that are High-Tech Park residents.

The data book presents national statistical indicators of the digital economy development and particular data from the national list of the Sustainable Development Goal indicators, as well as information on the ICT use by organisations and households.

Information is provided on the main socio-economic indicators of ICT sector organisations: gross value added, number of employees, earnings, investment in fixed capital, as well as on the training of specialists for the ICT sector and other.

Statistical data and brief methodological explanations are given for 2019 – 2024 using information from the Ministry of Communications and Informatisation of the Republic of Belarus, the Ministry of Education of the Republic of Belarus, the Ministry of Housing and Utilities of the Republic of Belarus, the Operational and Analytical Centre under the President of the Republic of Belarus.

Relative indicators were calculated on the basis of absolute data with a smaller unit of measurement than those given in the tables. In some cases, insignificant discrepancy between the total and the sum of its components are explained by data rounding.

Data in value terms are given in current prices.

Relative indicators were calculated on the basis of population numbers adjusted for the 2019 population census results.

The data book is published once every two years.

Abbreviations:

thsd	−	thousand
mln	−	million
bn	−	billion
BYN	−	Belarusian rubles
Kbit/s	−	kilobit per second
Mbit/s	−	megabit per second
Gbit/s	−	gigabit per second
Pbyte	−	petabyte
PC	−	personal computer

Explanation of symbols:

–	not applicable
…	data not available

Responsible for the sections of the data book:

		Phone (+375-17)
National statistical indicators of digital economy development	T.V.Maksimava	379-17-96
	I.V.Siarheichanka	378-21-97
	A.A.Sidarau	351-31-94
	L.A.Lomako	379-13-48
	I.V.Bondarenko	378-02-65
	I.I.Konoshonok	378-12-79
	I.G.Chigiryova	355-95-10
	T.I.Silich	300-71-94
	V.A.Kuleshevich	379-72-03
Main socio-economic indicators of ICT sector organisations by regions and Minsk city	T.V.Maksimava	379-17-96
	I.V.Siarheichanka	378-21-97
	A.A.Sidarau	351-31-94
	L.A.Lomako	379-13-48
	I.V.Bondarenko	378-02-65
Development of ICT infrastructure	T.V.Maksimava	379-17-96
	K.V.Grikhanova	323-23-99
ICT use in organisations	T.V.Maksimava	379-17-96
	A.V.Zharikova	378-81-32
ICT use by households	I.I. Konoshonok	378-12-79
Training of ICT specialists	T.V.Maksimava	379-17-96
	I.G. Chigiryova	355-95-10

CONTENTS

5. ICT use by households

6. Training of ICT specialists

METHODOLOGICAL NOTES

The methodological basis for measuring digital economy is the collective groupings by economic activity "ICT Sector", "Content and media sector" established by Resolution of the Ministry of Economy of the Republic of Belarus, the National Statistical Committee of the Republic of Belarus, the State Committee for Standardization of the Republic of Belarus No. 97/262/73 of December 27, 2013 (as amended by the Resolution of February 18, 2019) "On the approval of collective groupings by economic activity in compliance with the national classification of the Republic of Belarus ОКРБ 005-2011 "Kinds of Economic Activity" (hereinafter, ОКРБ 005-2011). The composition of collective groupings is defined according to the International Standard Industrial Classification of All Economic Activities (ISIC Rev.4).

Estimation of selected statistical indicators characterising the digital economy is carried out in accordance with the collective groupings by economic activity "ICT sector", "Content and media sector" and subclass 47910 "Retail trade by ordering goods by mail and via the Internet" of ОКРБ 005-2011.

The "ICT Sector" collective grouping includes the following economic activities:

"ICT production industries" – manufacture of electronic components; manufacture of electronic boards; manufacture of computers and peripheral equipment; manufacture of communication equipment; manufacture of consumer electronics; manufacture of magnetic and optical media;

"ICT trade industries" – wholesale of computers, computer peripheral equipment and software; wholesale of electronic and telecommunication equipment and parts thereof;

"ICT service industries" – publishing of computer games; publishing of other software; wired telecommunications activities; wireless telecommunications activities; satellite telecommunications activities; other telecommunications activities; computer programming activities; computer consultancy activities; computer facilities management activities; other information technology and computer service activities; digital tokens mining activities; other data processing, hosting and related activities; web portal activities; repair of computers and peripheral equipment; repair of communication equipment.

The "Content and media sector" collective grouping includes the following economic activities: publishing of books; publishing of directories and mailing lists; publishing of newspapers; publishing of journals and periodicals; other publishing activities; motion picture, video and television programme production activities; motion picture, video and television programme post-production activities; motion picture, video and television programme distribution activities; motion picture projection activities; sound recording and music publishing activities; radio broadcasting; television programming and broadcasting activities; news agency activities; other information service activities n.e.c.

For the purposes of the state statistical survey on the form 6-икт "Questionnaire on the use of digital technologies in organisation", digital technologies mean information and communication technologies and advanced manufacturing technologies, including technologies in robotics, computing, fibre optics and office equipment, artificial intelligence technologies, additive technologies and others.

The Internet is a set of interlinked international data transmission networks based on the TCP/IP protocol suite and using a common address space.

Intranet is a distributed corporate computer network based on the Internet technology and designed to ensure the access of staff to the corporate electronic information resources.

Extranet is a corporate network protected from unauthorised access which uses Internet technologies for internal corporate purposes as well as for providing a part of

corporate information and corporate applications to suppliers, vendors, customers and other business partners of the organisation.

Local area network links two or more PC (which may be of different types) as well as printers, scanners, security and fire alarm systems and other industrial equipment or peripherals located within one or several adjacent buildings, not using public communications.

Fixed broadband access to the Internet is a connection of subscriber (user) to data transmission networks at a speed of 256 Kbit/s or higher in one or both directions using a cable modem (DOCSIS technology), xPON, xDSL, Ethernet and other technology.

Wireless Internet access is the connection of subscriber to mobile cellular telecommunication networks with access to data transmission networks using WAP, GPRS, W-CDMA, HSDPA, CDMA2000 1xEV-DO, CDMA 2000 1xEV-DV, UMTS and other technologies.

Wireless broadband access is the connection of subscriber to the Internet at a speed of 256 Kbit/s and higher in one or both directions.

Telecommunications is a type of communication representing any emission, transmission or reception of characters, signals, voice data, written text, images, sounds or other messages via radio system, wire, optical or other electromagnetic systems.

Mobile cellular telecommunication services are telecommunication services provided to subscribers by a cellular mobile cellular telecommunication operator via a cellular mobile telecommunications network.

Number of mobile cellular telecommunication subscriptions is the number of mobile cellular telecommunication users who concluded contracts on the provision of such services with the subscriber number or a unique identification code assigned for these purposes.

Gross Domestic Product (GDP) is the value of goods and services produced in the economy by all economic activities and intended for final consumption, accumulation and net exports.

Gross value added (GVA) is the difference between the output of goods and/or services and intermediate consumption, calculated by economic activity.

Data on GDP and GVA for 2024 are preliminary and may be revised in subsequent issues.

Gross regional product (GRP) is the value of goods and services produced in the region by all economic activities and intended for final consumption, accumulation and net exports.

Researchers are employees who are professionally engaged in research and development and are directly involved in the creation of new knowledge, products, processes, methods and systems, as well as in the management of these activities.

Payroll number of employees is the number of employees who worked under employment agreements (contracts) and performed permanent, temporary or seasonal work for one or more days. It includes people actually present at work, including employees who did not work due to idle time, as well as those temporarily absent from work for any reason (annual leave, leave initiated by employer, documented temporary incapacity, and other reasons). External multiple job holders and individuals working under civil-law contracts are not included in the payroll number of employees.

Payroll number of employees on average per year is the sum of the payroll number of employees on average per month for all months of the year divided by 12. The payroll number of employees on average per year is given in the book without employees on maternity or parental leave up to the age of 3 years.

Nominal gross average monthly earnings are calculated by dividing the gross payroll before income tax and compulsory insurance contributions of employees by the average payroll number of employees used for the calculation of the average earnings and by the number of months in the period.

Data on the nominal gross earnings of employees and financial results of the ICT sector organisations for 2020 – 2023 are provided including micro-organisations included in the sample population of respondents.

Revenue from sales of products, goods, works and services is cash or other assets in monetary terms received or receivable as a result of the sale of products, goods, works, services, in case of their recognition as revenue in accordance with legislation, for the principal income-generating activity.

Cost of products, goods, works and services sold comprises costs related to the manufacture of products, performance of works and provision of services referred to the products, goods, works and services sold; sales costs; administrative expenses; and also acquisition cost of goods sold.

Net profit or net loss (-) is the final financial result of the activities of organisations in the reference period defined as the amount of profit (loss) from operating, investment and financial activities, reduced by the amount of taxes, charges and payments payable from profit, taking into account changes in deferred tax assets and liabilities.

Fixed capital investment is total costs invested in the acquisition, reproduction and creation of new fixed assets, acquisition and creation of intellectual property objects. The costs of acquisition and creation of intellectual property objects are included in fixed capital investment from 2024. Data on fixed capital investment are provided taking into account investment activities of small and micro-organisations.

Data on fixed capital investment are provided taking into account the investment activities of micro-organisations with the volume of fixed capital investment for 2020 – 2023 BYN 500 thousand and more.

Sample household living standards survey is a non-exhaustive state statistical survey conducted annually by state statistics bodies to obtain official statistical information on various aspects of the level, quality and conditions of living of the population.

A household is a group of persons who share the same housing unit and provide themselves with the essentials for living, keeping the common house, fully or partially pooling and spending their funds, or a person living alone and providing oneself with the essentials for living.

Information on the training of specialists in Information and Communication Technology education profile is provided in accordance with the national classification of the Republic of Belarus ОКРБ 011-2022 "Specialties and qualifications" approved by resolution of the Ministry of Education of the Republic of Belarus No. 54 of March 24, 2022, taking into account conversion tables.

1. NATIONAL STATISTICS INDICATORS OF DIGITAL ECONOMY DEVELOPMENT

1.1. Digitalization of the economy

	2019	2020	2021	2022	2023	2024
GVA of digital economy						
at current prices, BYN million	9 364.7	11 640.1	14 000.6	13 329.4	13 011.6	15 140.1
to GVA of the economy, %	8.0	8.9	9.0	7.7	6.8	7.0
to GDP, %	7.0	7.8	7.9	6.9	6.0	6.1
to previous year (in constant prices, %)	112.3	109.0	109.2	97.5	94.5	105.1
ICT sector						
at current prices, BYN million	8 725.3	10 930.5	13 258.8	12 471.1	11 845.9	13 438.9
to GVA of the economy, %	7.4	8.3	8.6	7.2	6.2	6.2
to GDP, %	6.5	7.3	7.5	6.5	5.4	5.4
to previous year (in constant prices, %)	112.9	109.4	109.9	97.2	91.7	101.9
content and media sector						
at current prices, BYN million	441.3	423.5	442.9	460.9	545.1	654.3
to GVA of the economy, %	0.4	0.3	0.3	0.3	0.3	0.3
to GDP, %	0.3	0.3	0.3	0.2	0.3	0.3
to previous year (in constant prices, %)	96.0	89.6	95.6	94.6	106.8	104.6
digital trade						
at current prices, BYN million	198.1	286.1	298.9	397.4	620.6	1 046.9
to GVA of the economy, %	0.2	0.2	0.2	0.2	0.3	0.5
to GDP, %	0.2	0.2	0.2	0.2	0.3	0.4
to previous year (in constant prices, %)	125.3	133.1	101.8	113.7	170.7	166.5

Continued

	2019	2020	2021	2022	2023	2024
Fixed capital investment in digital economy						
at current prices, BYN million	833.7	770.3	890.4	848.3	1 385.5	1 816.9
to total fixed capital investment, %	2.9	2.6	2.9	3.0	3.7	3.8
to previous year (in constant prices, %)	90.6	84.1	103.5	83.4	146.7	103.7
ICT sector						
at current prices, BYN million	756.0	723.5	836.2	749.6	1 330.2	1 648.3
to total fixed capital investment, %	2.6	2.4	2.7	2.6	3.6	3.5
to previous year (in constant prices, %)	89.4	87.1	103.5	78.5	159.4	98.5
content and media sector						
at current prices, BYN million	72.4	29.6	37.7	53.8	40.8	134.8
to total fixed capital investment, %	0.3	0.1	0.1	0.2	0.1	0.3
to previous year (in constant prices, %)	103.9	37.3	113.9	124.9	68.3	221.7
digital trade						
at current prices, BYN million	5.3	17.2	16.5	44.9	14.5	33.8
to total fixed capital investment, %	0.02	0.1	0.1	0.2	0.04	0.1
to previous year (in constant prices, %)	96.5	293.1	86.5	243.0	28.8	198.2

Continued

	2019	2020	2021	2022	2023	2024
Net profit of digital economy organisations, BYN million	2 046.8	2 747.2	2 620.5	2 355.1	2 690.4	3 352.7
ICT sector	1 956.7	2 666.7	2 550.3	2 265.1	2 584.1	3 098.8
content and media sector	70.4	41.3	53.3	58.6	69.6	127.6
digital trade	19.7	39.2	17.0	31.4	36.8	126.4
Foreign investment received by digital economy organisations, USD million	732.5	661.0	884.4	823.5	828.9	772.1
to total foreign investment, %	7.3	7.6	10.2	11.8	10.7	11.2
ICT sector, USD million	715.4	642.8	856.9	731.9	759.7	674.5
to total foreign investment, %	7.1	7.4	9.9	10.5	9.8	9.8
content and media sector, USD million	5.8	2.8	5.2	4.2	1.5	2.5
to total foreign investment, %	0.1	0.03	0.1	0.1	0.02	0.04
digital trade, USD million	11.3	15.3	22.4	87.4	67.7	95.1
to total foreign investment, %	0.1	0.2	0.3	1.3	0.9	1.4
Number of digital economy organisations, units	6 967	7 045	7 193	7 368	7 807	8 533
ICT sector	5 202	5 341	5 412	5 437	5 415	5 462
content and media sector	988	999	978	962	963	964
digital trade	777	705	803	969	1 429	2 107

Continued

	2019	2020	2021	2022	2023	2024
Payroll number of employees of digital economy organisations, persons	132 688	140 979	148 577	142 798	129 418	130 549
to previous year, %	108.1	106.2	105.4	96.1	90.6	100.9
to total payroll number of employees, %	3.5	3.8	4.0	4.0	3.6	3.7
ICT sector, persons	111 316	118 778	125 279	119 799	105 312	104 381
to previous year, %	110.6	106.7	105.5	95.6	87.9	99.1
to payroll number of employees, %	2.9	3.2	3.4	3.3	3.0	2.9
content and media sector, persons	14 364	13 600	12 929	12 179	12 465	12 753
to previous year, %	95.5	94.7	95.1	94.2	102.3	102.3
to total payroll number of employees, %	0.4	0.4	0.4	0.3	0.4	0.4
digital trade, persons	7 008	8 601	10 369	10 820	11 641	13 415
to previous year	98.7	122.7	120.6	104.3	107.6	115.2
to total payroll number of employees, %	0.2	0.2	0.3	0.3	0.3	0.4

Continued

	2019	2020	2021	2022	2023	2024
Nominal gross average monthly earnings of employees of digital economy organisations, BYN	2 831.9	3 712.5	4 234.1	4 526.9	4 731.0	5 024.5
to average earnings in the country, %	259.1	295.9	293.3	277.2	246.9	219.5
ICT sector, BYN	3 144.1	4 119.9	4 709.4	5 042.5	5 314.6	5 661.8
to average earnings in the country, %	287.7	328.4	326.2	308.7	277.4	247.4
content and media sector, BYN	1 186.4	1 351.9	1 532.0	1 751.9	2 063.3	2 389.6
to average earnings in the country, %	108.6	107.8	106.1	107.3	107.7	104.4
digital trade, BYN	1 026.3	1 216.6	1 374.7	1 618.3	2 061.2	2 435.4
to average earnings in the country, %	93.9	97.0	95.2	99.1	107.6	106.4
Real earnings of employees of digital economy organisations						
to previous year, %	105.8	124.3	104.1	92.8	99.4	100.5
ICT sector						
to previous year, %	106.2	124.2	104.4	93.0	100.3	100.8
content and media sector						
to previous year, %	101.7	108.0	103.5	99.3	112.1	109.6
digital trade						
to previous year, %	93.4	112.3	103.2	102.2	121.2	111.8
Share of retail tumover received via the Internet in retail tumover of trade organisations, %	4.1	5.4	5.6	6.0	8.1	11.7

1.2. Digital development infrastructure

	2019	2020	2021	2022	2023	2024
Number of fixed broadband Internet subscribers per 100 inhabitants	34.2	34.8	35.0	34.0	34.9	36.1
of which by speed:						
256 Kb/s – less than 2 Mb/s	0.7	0.5	0.5	0.04	0.03	0.02
2 Mb/s – less than 10 Mb/s	11.6	10.9	9.7	7.6	6.9	6.2
10 Mb/s – less than 30 Mb/s	7.5	5.8	5.3	5.3	5.2	5.0
30 Mb/s – less than 100 Mb/s	10.0	9.0	7.5	5.9	5.1	5.4
100 Mb/s and over	4.5	8.6	12.1	15.2	17.6	19.4
Share of fixed broadband Internet subscribers with data transmission speed 100 Mbit/s and over in the total number of fixet brodband Internet subscribers, %	13.0	24.6	34.5	44.6	50.5	53.8
Number of wireless broadband Internet subscriptions per 100 inhabitants, units	89.9	92.6	97.8	101.3	103.3	106.9
Population coverage by mobile cellular telecommunication services using LTE (4G) technology, %	76.0	89.5	97.4	98.0	98.4	99.0
Increase in bandwidth of the Unified Republic Data Transmission Network, % of 2020	…	…	21.7	45.0	77.0	98.0

1.3. Digital development of public administration

(units; per 100 population)

	2019	2020	2021	2022	2023	2024
Electronic services and administrative procedures rendered through the National Automated Information System	60	77	194	833	1 401	1 579
of which electronic services	55	70	187	825	1 396	1 562

1.4. Digital technologies use by population

(percent)

	2019	2020	2021	2022	2023	2024
Share of population using the Internet in the total population[1)]	82.8	85.1	86.9	89.5	91.5	94.3
of which:						
daily	68.5	71.3	74.1	78.7	82.1	86.0
for financial transactions (to pay for goods, services, transfer money, etc)	37.8	42.2	47.1	50.7	56.1	58.8
to interact with government bodies and organizations, including receiving information	19.0	23.6	27.2	27.0	32.2	34.0
Share of household expenditure on ICT in the total household consumption expenditure	7.3	7.8	7.4	7.6	7.3	7.1

[1)] Population aged 6 – 72 years.

1.5. Digital technologies use by organisations

(percentage of total organisations surveyed)

	2020	2022	2024
Proportion of organisations with:			
website	70.4	71.6	71.0
cloud services	30.5	43.2	41.2
Internet	98.7	98.8	99.3
fixed broadband Internet access, in the total number of surveyed organisations with Internet access	94.6	95.3	96.7
Proportion of organisations using the Internet for:			
interacting with suppliers	88.3	86.6	87.8
interacting with consumers	78.6	76.7	77.9
electronic sales of goods (works, services) on orders transmitted via special forms posted on the website or in the Extranet, or using an automated message exchange system between organisations (EDI)	27.9	38.2	40.9
electronic sales of goods (works, services) on orders received through special forms posted on the website or on the Extranet, or using an automated message exchange system between organisations (EDI)	38.8	59.8	64.9
Proportion of organisations using:			
Big Data	…	12.3	13.7
Internet of Things	…	18.5	21.5
artificial intelligence	…	3.6	5.8
Radio Frequency Identification (RFID)	…	13.7	15.3
Digital Twin	…	0.6	0.5

1.6. Digital transformation

(percent)

	2019	2020	2021	2022	2023	2024
Number of patents on ICT sector inventions granted to national applicants, units	6	9	10	13	10	14
Share of patents on ICT sector inventions granted to national applicants in the total number of patents on inventions granted to national applicants	1.5	2.3	3.8	5.5	4.8	5.9
Share of researchers engaged in the ICT sector in the total number of researchers engaged in R&D	5.3	5.2	4.4	5.3	5.6	5.1
Share of domestic R&D expenditure of ICT sector organisations in the total domestic R&D expenditure of organisations surveyed	4.5	5.1	3.8	4.6	5.4	8.3

2. MAIN SOCIO-ECONOMIC INDICATORS OF ICT SECTOR

2.1. Main socio-economic indicators of ICT sector organisations by regions and Minsk city

	2019	2020	2021	2022	2023	2024
GVA of ICT sector (at current prices), BYN million	8 725.3	10 930.5	13 258.8	12 471.1	11 845.9	13 438.9
Regions and Minsk city:						
Brest	408.0	478.6	567.0	588.8	607.4	666.6
Vitebsk	329.0	394.7	483.1	541.8	626.5	696.4
Gomel	414.0	470.2	573.8	599.3	580.2	612.2
Grodno	331.2	389.6	474.8	507.7	490.3	542.5
Minsk city	6 629.2	8 556.7	10 288.8	9 356.6	8 591.3	9 814.7
Minsk	345.9	335.5	515.2	498.5	558.2	683.4
Mogilev	275.9	303.7	356.1	378.4	392.0	423.1
Share of GVA of ICT sector in GVA of the country (region), %	7.4	8.3	8.6	7.2	6.2	6.2
Regions and Minsk city:						
Brest	3.3	3.4	3.4	2.9	2.7	2.6
Vitebsk	3.4	3.5	3.7	3.6	3.6	3.7
Gomel	3.2	3.2	3.1	3.0	2.6	2.5
Grodno	3.1	3.3	3.0	2.9	2.5	2.5
Minsk city	17.9	20.7	20.5	17.4	14.5	14.4
Minsk	1.7	1.5	1.8	1.5	1.6	1.7
Mogilev	3.2	3.1	3.0	2.7	2.6	2.4
Share of GVA of ICT sector in GDP (GRP), %	6.5	7.3	7.5	6.5	5.4	5.4
Regions and Minsk city:						
Brest	3.2	3.3	3.0	2.6	2.4	2.3
Vitebsk	3.3	3.4	3.3	3.2	3.2	3.3
Gomel	3.1	3.1	2.7	2.7	2.3	2.2
Grodno	3.0	3.2	2.6	2.5	2.1	2.0
Minsk city	18.0	20.8	18.1	15.6	12.8	12.8
Minsk	1.7	1.5	1.5	1.4	1.3	1.5
Mogilev	3.1	3.0	2.7	2.5	2.3	2.2

Continued

	2019	2020	2021	2022	2023	2024
Fixed capital investment in ICT sector, BYN million	756.0	723.5	836.2	749.6	1 330.2	1 648.3
Regions and Minsk city:						
Brest	62.3	55.1	87.1	154.7	493.7	113.7
Vitebsk	62.6	56.3	94.7	94.6	83.9	100.8
Gomel	68.1	46.3	58.0	65.2	78.4	116.5
Grodno	35.1	35.6	44.4	53.5	68.0	75.2
Minsk city	387.8	368.2	383.2	223.2	399.6	923.3
Minsk	94.0	111.2	110.8	97.0	135.8	166.6
Mogilev	46.1	50.8	58.0	61.3	70.8	152.2
Foreign investment in ICT sector organisations, USD million	715.4	642.8	856.9	731.9	759.7	674.5
Regions and Minsk city:						
Brest	7.0	5.3	6.9	11.7	6.8	5.9
Vitebsk	1.0	0.3	1.0	28.6	57.2	71.1
Gomel	1.2	0.7	1.2	1.1	1.6	1.7
Grodno	0.2	0.3	0.04	1.2	0.4	2.8
Minsk city	698.8	627.7	841.6	680.2	677.7	579.8
Minsk	7.0	8.3	5.6	9.0	15.6	11.0
Mogilev	0.2	0.3	0.5	0.1	0.4	2.3
Number of ICT sector organisations, units	5 202	5 341	5 412	5 437	5 415	5 462
Regions and Minsk city:						
Brest	260	262	264	263	252	249
Vitebsk	211	214	214	210	229	233
Gomel	286	293	286	285	288	293
Grodno	227	232	245	249	233	230
Minsk city	3 587	3 721	3 767	3 773	3 755	3 788
Minsk	438	440	457	468	476	489
Mogilev	193	179	179	189	182	180

Continued

	2019	2020	2021	2022	2023	2024
Sales revenue of products, goods, works, services of ICT sector organisations, BYN million	14 778.8	16 704.9	19 616.5	20 331.8	20 967.5	25 308.8
Regions and Minsk city:						
Brest	360.6	382.3	439.4	395.3	426.0	492.1
Vitebsk	325.2	413.7	615.0	600.7	869.9	1 007.4
Gomel	251.3	265.0	331.7	357.0	322.7	363.9
Grodno	233.4	267.6	338.3	626.1	357.1	443.4
Minsk city	12 669.7	14 472.3	16 838.0	16 992.9	17 006.6	20 227.1
Minsk	772.2	734.8	863.4	1 156.1	1 764.9	2 511.5
Mogilev	166.4	169.3	190.7	203.7	220.4	263.5
Cost of products, goods, works, services sold by ICT sector organisations, BYN million	10 642.2	12 088.9	14 453.8	15 173.7	15 644.1	18 774.9
Regions and Minsk city:						
Brest	272.5	283.2	317.5	291.5	320.1	372.9
Vitebsk	253.8	328.6	515.9	496.5	708.1	841.6
Gomel	192.0	200.1	236.1	273.0	251.9	287.8
Grodno	176.3	197.0	250.1	519.8	288.9	339.8
Minsk city	9 004.7	10 392.9	12 302.7	12 507.4	12 501.8	14 688.4
Minsk	619.7	562.6	690.5	934.7	1 412.2	2 049.9
Mogilev	123.3	124.4	140.9	150.7	161.0	194.5
Net profit, net loss (-) of ICT sector organisations, BYN million	1 956.7	2 666.7	2 550.3	2 265.1	2 584.1	3 098.8
Regions and Minsk city:						
Brest	20.6	34.7	41.5	25.9	25.6	34.9
Vitebsk	11.7	23.2	25.2	27.7	70.7	61.4
Gomel	15.4	20.2	40.4	26.3	18.8	8.1
Grodno	12.5	29.1	36.5	41.7	12.2	29.1
Minsk city	1 853.0	2 474.1	2 353.5	2 114.7	2 364.9	2 829.0
Minsk	37.0	75.6	43.7	21.6	83.1	129.5
Mogilev	6.5	9.7	9.5	7.4	8.8	6.8

Continued

	2019	2020	2021	2022	2023	2024
Nominal gross average monthly earnings in ICT sector organisations, BYN	3 144.1	4 119.9	4 709.4	5 042.5	5 314.6	5 661.8
Regions and Minsk city:						
Brest	1 801.7	2 424.4	2 881.8	3 279.9	3 435.4	3 665.5
Vitebsk	1 432.9	1 878.2	2 345.5	2 774.6	3 001.5	3 136.8
Gomel	1 930.4	2 476.8	2 998.3	3 524.1	3 708.3	3 968.9
Grodno	1 905.9	2 491.8	2 927.6	3 516.7	3 823.6	3 956.2
Minsk city	3 685.7	4 790.8	5 411.2	5 736.1	6 079.4	6 454.7
Minsk	1 849.7	2 299.9	2 913.0	3 319.2	3 535.3	3 835.7
Mogilev	1 600.4	1 992.2	2 319.2	2 660.3	2 919.4	3 095.6
Average annual payroll number of employees in ICT sector organisations, persons	111 316	118 778	125 279	119 779	105 312	104 381
Regions and Minsk city:						
Brest	5 292	5 200	5 247	5 152	4 661	4 360
Vitebsk	6 285	6 598	7 669	7 302	6 872	6 751
Gomel	6 088	6 158	6 501	6 149	5 257	5 025
Grodno	4 591	4 766	5 014	4 925	4 479	4 335
Minsk city	80 046	87 041	91 291	86 971	75 164	75 191
Minsk	5 329	5 177	5 625	5 450	5 309	5 412
Mogilev	3 685	3 838	3 932	3 850	3 570	3 307

3. DEVELOPMENT OF ICT INFRASTRUCTURE

3.1. Selected indicators of the national list of the Sustainable Development Goal indicators

Index of indicator	Name of indicator	2019	2020	2021	2022	2023	2024
Goal 9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation							
9.c.1	Proportion of population covered by a mobile network, by technology,%						
	GSM standard	99.9	99.9	99.9	99.9	99.9	99.9
	UMTS standard	99.9	99.9	99.9	99.9	99.9	99.9
	LTE standard	76.0	89.5	97.4	98.0	98.4	99.0
Goal 17 Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development							
17.6.2	Number of fixed broadband Internet subscribers by speed						
	256 Kb/s – less than 2 Mb/s	62 977	46 919	42 991	3 425	2 614	2 043
	2 Mb/s – less than 10 Mb/s	1 092 027	1 022 487	896 863	698 848	633 352	566 477
	10 Mb/s – less than 30 Mb/s	701 674	545 764	489 013	488 409	478 275	451 799
	30 Mb/s – less than 100 Mb/s	938 676	840 172	694 080	539 963	469 620	495 726
	100 Mb/s and more	419 515	800 210	1 115 934	1 394 418	1 615 122	1 768 158

3.2. Indicators of data transmission network

(end of year)

	2019	2020	2021	2022	2023	2024
Number of subscribers of all types of data transmission, thousand	13 710.4	13 943.8	14 023.9	14 073.5	14 256.0	14 525.9
of which:						
without Internet access	656.5	783.7	576.4	437.3	429.9	413.2
with Internet access	13 053.9	13 160.0	13 447.5	13 636.2	13 826.1	14 112.7
individuals	11 401.7	11 408.2	11 621.9	11 761.3	11 907.0	12 126.7
of which:						
fixed access	3 036.2	3 083.2	3 058.7	2 939.7	3 002.9	3 080.1
of which broadband access	3 035.9	3 073.3	3 050.2	2 931.9	2 995.4	3 071.1
wireless access	8 365.6	8 325.1	8 563.2	8 821.6	8 904.2	9 046.6
of which broadband access	7 543.5	7 674.4	8 011.4	8 234.9	8 335.3	8 547.1
legal entities and individual entrepreneurs	1 652.2	1 751.8	1 825.6	1 874.9	1 919.1	1 986.0
fixed access	179.0	182.3	188.8	193.4	203.5	213.1
of which broadband access	179.0	182.3	188.7	193.2	203.5	213.1
wireless access	1 473.2	1 569.5	1 636.8	1 681.5	1 715.5	1 772.8
of which broadband access	913.7	979.5	1 043.5	1 086.9	1 120.2	1 193.4
Bandwidth of external channels of Internet access, Gbit/s	1 551.2	1 933.0	2 230.0	2 770.0	3 630.0	4 220.0

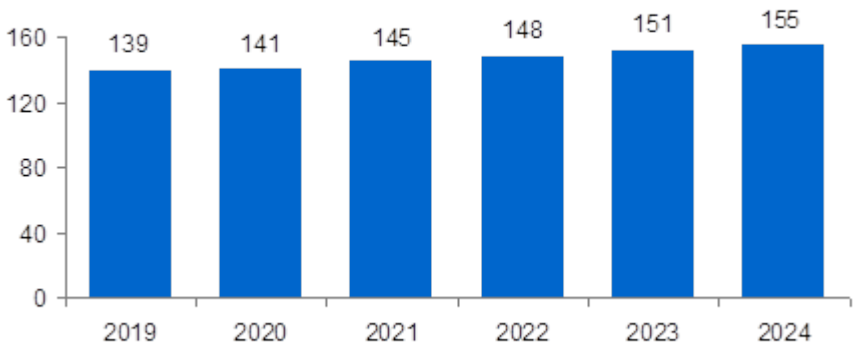
3.3. Volume of data consumed by subscribers and users connected to the Internet

(Pbyte)

	2019	2020	2021	2022	2023	2024
Volume of data consumed by subscribers and users connected to the Internet, Pbyte	3 977.4	4 855.5	5 950.0	6 082.0	7 985.0	8 692.0
of which on:						
fixed broadband access	3 399.2	3 985.1	4 850.0	4 694.0	6 415.0	7 096.0
wireless broadband access	578.2	870.4	1 100.0	1 388.0	1 570.0	1 596.0

3.4. Number of Internet subscribers

(end of year; per 100 population)



3.5. Access of individuals to the Internet

(end of year; per 100 population)

	2019	2020	2021	2022	2023	2024
Number of Internet subscribers	121	122	126	128	130	133
fixed broadband access	32	33	33	32	33	34
wireless broadband access	80	82	87	90	91	94

3.6. Main indicators of mobile cellular telecommunications

(end of year)

	2019	2020	2021	2022	2023	2024
Number of mobile cellular telecommunication subscriptions, thsd	11 627.2	11 704.1	11 760.1	11 770.6	11 757.3	11 875.4
Number of mobile cellular telecommunication subscriptions, per 100 population	124	125	127	128	128	130
Population of the Republic of Belarus covered by mobile cellular telecommunication services, %	99.9	99.9	99.9	99.9	99.9	99.9
Territory of the Republic of Belarus covered by mobile cellular telecommunication network, %	98.7	98.7	99.3	99.3	99.3	99.3

3.7. Indicators of fixed telephony

(end of year)

	2019	2020	2021	2022	2023	2024
Installed capacity of telephone exchanges of the public telecommunication networks, thsd numbers	2 208.9	1 700.1	1 257.5	947.0	735.8	527.9
Number of fixed telephone lines connected to public telecommunication networks, thsd units	4 290.4	4 239.0	4 163.1	4 058.4	4 003.3	3 974.1
Number of IMS subscribers per 100 population	36.0	38.7	40.4	40.8	41.0	41.5

3.8. Tariff indices of selected communication services

(percent of previous year)

	2019	2020	2021	2022	2023	2024
For legal entities and individual entrepreneurs						
Communication services	104.6	103.2	102.7	104.0	100.8	101.0
of which:						
local telephone service within urban telephone networks	100.0	100.0	100.0	100.0	100.0	100.9
long-distance and international telephone service	104.9	103.7	101.8	104.0	100.8	104.5
data transmission services (Internet connection)	104.4	103.9	101.3	103.8	100.5	100.0
mobile cellular telecommunications	104.3	102.5	103.4	105.0	101.1	101.2
broadcasting of sound programmes	105.0	106.9	100.0	105.1	100.0	107.8
broadcasting of television programmes	105.2	106.2	104.5	105.2	100.0	100.0
For individuals						
Communication services	105.6	103.6	103.6	104.4	100.8	100.7
of which:						
local telephone service within urban telephone networks	112.5	107.5	104.0	103.0	101.0	103.3
long-distance and international telephone service	106.1	105.7	109.8	105.1	101.3	104.1
data transmission services (Internet connection)	103.9	103.7	101.6	104.9	100.3	100.4
mobile cellular telecommunications	104.6	102.5	103.3	103.9	100.2	99.7
broadcasting of television programmes	107.3	107.4	108.3	113.2	106.8	105.6

3.9. Average tariffs of communication services for legal entities[1)]

(BYN)

	Average tariff for December					
	2019	2020	2021	2022	2023	2024
Access to local telephone network using subscriber's terminal equipment (main telephone line)	6.0420	6.0420	6.0420	6.0420	6.0420	6.0420
Long distance connection to fixed telecommunication network subscribers, for each full or part of minute of connection	0.0180	0.0180	0.0180	0.0180	0.0180	0.0190
Three-minute connection within the same mobile cellular telecommunication network	0.0110	0.0091	0.0110	0.0140	0.0139	0.0084
Data transmission services[2)]						
fee for 1 Mb/s of anytime Internet access according to tariff plan for day-and-night access (excluding traffic)	1.1403	0.6654	0.6654	0.6823	0.6878	0.6019

[1)] Here and in table 3.10 data are shown without value added tax.
[2)] Connected via GPON technology.

3.10. Average tariffs of communication services for individuals

(BYN)

	Average tariff for December					
	2019	2020	2021	2022	2023	2024
Access to local telephone network using subscribers terminal equipment (main telephone line)	6.04	6.04	6.04	6.04	6.04	6.04
Long distance connection to fixed telecommunication network subscribers, for each full or part of minute of connection	0.0130	0.0154	0.0154	0.0160	0.0160	0.0168
Three-minute connection within the same mobile cellular telecommunication network	0.0511	0.0705	0.0459	0.0187	0.0185	0.0090
Data transmission services[1)]						
fee for 1 Mb/s of anytime Internet access according to tariff plan for day-and-night access (excluding traffic)	0.4947	0.5145	0.5145	0.5302	0.5345	0.2806

[1)] Connected via GPON technology.

4. ICT USE IN ORGANISATIONS

4.1. ICT use in organisations

(percentage of total organisations surveyed)

	2020	2022	2024
Organisations using:			
local area network	78.3	79.4	79.0
Internet	98.7	98.8	99.3
Intranet	27.6	32.1	30.8
Extranet	14.7	16.4	14.3
cloud services	30.5	43.2	41.2
Organisations with a website	70.4	71.6	71.0

4.2. ICT use in organisations by regions and Minsk city in 2024

(percentage of total organisations surveyed)

	Local area network	Internet	Cloud services
Republic of Belarus	79.0	99.3	41.2
Regions and Minsk city:			
Brest	85.1	99.8	32.3
Vitebsk	80.3	99.6	43.6
Gomel	79.8	99.9	33.2
Grodno	85.1	98.0	42.4
Minsk city	74.2	99.2	44.2
Minsk	82.7	99.6	39.2
Mogilev	83.5	99.1	45.3

4.3. ICT use in organisations by economic activity in 2024

(percentage of total organisations surveyed)

	Local area network	Internet	Cloud services
Total	79.0	99.3	41.2
of which by economic activity:			
agriculture, forestry and fishing	80.7	100.0	22.7
mining and guarrying	100.0	100.0	66.7
manufacturing	94.3	99.8	43.3
electricity, gas, steam, hot water and air conditioning supply	97.9	100.0	60.0
water supply; waste management and remediation activities	93.5	98.4	64.5
construction	89.9	99.8	40.5
wholesale and retail trade; repair of motor vehicles and motorcycles	78.0	99.4	37.4
transportation, storage, postal and courier activities	94.1	99.5	45.4
accommodation and food service activities	94.0	100.0	50.6
information and communication	63.8	98.4	40.7
financial and insurance activities	100.0	100.0	73.6
real estate activities	87.8	100.0	52.0
professional, scientific and technical activities	94.4	100.0	59.1
administrative and support service activities	87.9	100.0	49.2
education	94.7	100.0	66.7
higher education	98.2	100.0	69.1
human health	94.8	100.0	62.5
arts, sports, entertainment and recreation	91.1	100.0	53.3
repair of computers and personal and household goods	50.0	98.8	16.1
other personal service activities	71.4	100.0	50.0

4.4. Presence of website in organisations in 2024

(percentage of total organisations surveyed)

	Republic of Belarus	Of which by regions and Minsk city:						
		Brest	Vitebsk	Gomel	Grodno	Minsk city	Minsk	Mogilev
Total organisations	71.0	70.0	67.5	67.2	75.4	74.0	69.3	62.9
of which by economic activity:								
agriculture, forestry and fishing	43.7	48.7	41.9	36.6	72.1	81.8	40.6	22.4
mining and guarrying	83.3	100.0	100.0	100.0	100.0	–	50.0	–
manufacturing	88.5	85.5	84.9	91.9	88.5	90.7	91.4	81.9
electricity, gas steam, hot water and air conditioning supply	89.7	100.0	80.0	87.5	100.0	100.0	68.2	100.0
water supply; waste management and remediation activities	87.1	100.0	80.0	71.4	71.4	100.0	87.5	87.5
construction	67.7	68.8	61.1	86.2	68.9	80.4	50.0	51.0
wholesale and retail trade, repair of motor vehicles and motorcycles	71.2	63.5	59.3	55.3	63.9	74.8	76.2	63.4
transportation, storage, postal and courier activities	78.0	82.1	85.7	55.6	58.3	88.6	79.3	84.6
accommodation and food service activities	89.2	100.0	100.0	36.4	100.0	100.0	100.0	71.4

Continued

	Republic of Belarus	Of which by regions and Minsk city:						
		Brest	Vitebsk	Gomel	Grodno	Minsk city	Minsk	Mogilev
information and communication	66.3	58.3	66.0	64.2	63.2	67.6	61.9	63.0
financial and insurance activities	100.0	100.0	–	–	100.0	100.0	100.0	–
real estate activities	76.5	100.0	66.7	54.5	80.0	85.4	50.0	87.5
professional, scientific and technical activities	85.7	77.8	84.6	80.0	84.2	88.4	78.1	95.5
administrative and support service activies	71.2	66.7	93.3	100.0	100.0	57.9	87.5	88.9
education	96.5	100.0	100.0	100.0	100.0	93.5	–	100.0
higher education	96.4	100.0	100.0	100.0	100.0	93.3	–	100.0
human health	93.3	92.7	86.7	98.2	98.6	96.8	90.4	86.7
arts, sports, entertainment and recreation	88.9	85.7	66.7	100.0	100.0	89.3	100.0	100.0
repair of computers and personal and household goods	46.0	43.9	47.1	32.1	36.1	56.6	50.0	10.7
other personal service activities	60.7	83.3	66.7	66.7	60.0	100.0	21.4	50.0

4.5 Distribution of organisations by website use

(percentage of total organisations surveyed)

	2020	2022	2024
Website use:			
publication of catalogues of goods (works, services) and price lists	51.2	51.5	51.2
order status tracking	11.5	10.7	10.5
settlements via electronic payment system	15.9	16.0	16.4
publication of job vacancies or accepting job applications	31.7	33.7	33.7
other purposes	48.3	48.7	47.6

4.6. Distribution of organisations by cloud services use

(percentage of total organisations surveyed)

	2020	2022	2024
Cloud services use:			
access to the cloud service provider's software	18.6	25.4	24.3
hosting of in-house software	10.5	12.8	11.1
database hosting, file storage	19.0	25.1	21.8
e-mail	20.2	33.1	33.5
other purposes	13.3	17.1	15.6

4.7. Distribution of organisations by maximum data transfer speed via the Internet in 2024

(percentage of total organisations with Internet access)

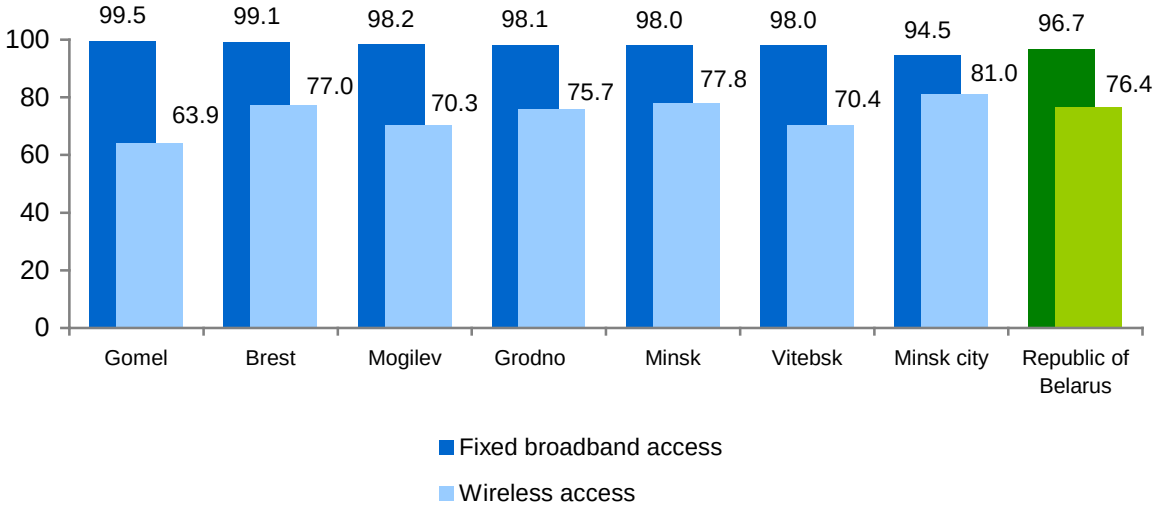
	Less than 1.9 Mb/s	2 Mb/s – 10 Mb/s	10.1 Mb/s – 30 Mb/c	30.1 – 100 Mb/s	More than 100 Mb/s
Total organisations	15.7	11.4	13.4	38.6	20.9
of which by economic activity:					
agriculture, forestry and fishing	36.5	23.7	11.9	20.7	7.2
mining and guarrying	16.7	–	–	33.3	50.0
manufacturing	8.5	7.0	10.5	45.8	28.2
electricity, gas, steam, hot water and air conditioning supply	4.8	6.9	13.8	58.6	15.9
water supply; waste management and remediation activities	8.2	3.3	13.1	54.1	21.3
construction	15.5	12.3	13.4	43.6	15.1
wholesale and retail trade, repair of motor vehicles and motorcycles	16.0	9.5	16.8	38.1	19.6
transportation, storage, postal and courier activities	7.8	9.8	10.8	50.5	21.1
accommodation and food service activities	9.6	7.2	14.5	43.4	25.3
information and communication	15.5	9.7	11.5	37.3	26.1
financial and insurance activities	1.9	–	1.9	45.3	50.9
real estate activities	17.3	9.2	9.2	43.9	20.4
professional, scientific and technical activities	4.3	6.3	9.6	49.5	30.2

Continued

	Less than 1.9 Mb/s	2 Mb/s – 10 Mb/s	10.1 Mb/s – 30 Mb/c	30.1 – 100 Mb/s	More than 100 Mb/s
administrative and support service activies	16.7	9.8	13.6	47.7	12.1
education	–	1.8	3.5	26.3	68.4
higher education	–	1.8	1.8	27.3	69.1
human health	5.5	13.5	23.9	43.3	13.9
arts, sports, entertainment and recreation	6.7	4.4	6.7	60.0	22.2
repair of computers, personal items and household goods	27.8	17.3	19.9	26.9	8.2
other personal service activities	14.3	23.2	14.3	41.1	7,1

4.8. Organisations by type of Internet connection in 2024

(percentage of total organisations with Internet access)



4.9. Organisations by purpose of Internet use in 2024

(percentage of total organisations with Internet access)

	Republic of Belarus	Of which by regions and Minsk city:						
		Brest	Vitebsk	Gomel	Grodno	Minsk city	Minsk	Mogilev
Purpose of Internet use:								
general:								
searching for information	98.6	98.8	99.0	98.5	99.1	98.0	99.2	99.2
sending and receiving e-mails	99.2	99.9	99.6	99.2	99.4	98.8	99.6	99.4
searching for personnel	74.4	76.6	70.4	67.8	80.8	74.5	77.6	72.4
staff training	61.1	66.7	60.7	56.9	69.3	59.5	63.0	58.0
use of IP-telephony (Internet telephony), audio- and videoconferencing	60.8	65.3	58.7	53.7	67.1	59.3	67.4	57.5
paid subscription to electronic databases and electronic libraries	64.7	72.7	66.3	62.6	72.4	59.6	69.6	68.4
banking activities	97.3	97.7	98.7	97.7	98.1	96.2	98.0	99.2
receiving or provision of information services	80.1	82.0	79.8	77.0	83.3	80.3	80.2	77.2
real-time dialogue (chat) and placement of ads	64.7	61.9	56.8	56.8	65.2	70.4	64.3	54.6
accessing other financial services	48.0	48.9	44.6	47.4	51.5	48.0	48.8	46.9
communication in social media (networks)	52.8	47.9	42.6	45.1	51.9	59.5	51.4	44.9
remote work	68.2	66.2	59.9	54.7	64.2	76.6	66.4	56.3
receiving information about goods (works, services) from abroad marketplaces	46.9	45.4	42.1	39.7	40.8	51.2	48.4	42.2
communication with suppliers:								
receiving information about required goods (works, services) and their suppliers	86.0	88.3	84.4	83.4	89.8	84.7	88.7	86.8
providing information about the needs of the organisation in goods (works, services)	70.6	76.2	71.3	68.1	78.4	66.5	76.0	72.1

Continued

	Republic of Belarus	Of which by regions and Minsk city:						
		Brest	Vitebsk	Gomel	Grodno	Minsk city	Minsk	Mogilev
placing orders for required goods (works, services)	60.4	65.8	62.0	58.1	68.1	57.1	63.5	60.1
payment for supplied goods (works, services)	63.3	61.9	56.9	61.7	63.5	64.6	65.9	62.2
receiving electronic products	54.8	55.0	52.0	54.5	59.4	55.0	56.2	50.5
communication with customers:								
providing information about organisation and its goods (works, services)	75.8	75.3	72.3	69.1	76.6	78.3	75.8	73.6
receiving orders for goods (works, services) produced by organisation	44.6	45.0	43.8	37.1	42.4	47.5	44.6	39.5
electronic settlements with consumers	40.6	41.8	39.2	39.7	41.5	40.4	42.9	38.4
distribution of electronic products	17.9	12.3	12.3	12.3	14.9	24.6	14.7	8.3
after-sales service	25.0	17.3	16.3	16.7	19.4	34.4	21.8	11.8
communication with government agencies (organiosations):								
receiving information on the activities of government agencies (organisations)	88.9	87.7	88.6	87.4	91.8	88.7	89.3	90.0
submitting state statistical reports, tax statements, customs and other documents	99.6	100.0	99.2	100.0	99.9	99.4	99.6	99.7
receiving government e-services, with no need for using hard-copy paperwork when receiving such services	82.9	85.6	79.3	81.3	87.0	82.2	84.5	82.9
participation in electronic auctions for public procurement of goods (works, services)	47.0	61.1	56.4	62.0	62.4	30.7	54.0	65.6

4.10. Use of digital technologies in organisations in 2024

	Big Data	Internet of Things	Artificial intelligence	Radio-Frequency Identification (RFID)	Digital Twin
			units		
Total organisations	1 229	1 931	521	1 377	45
of which by economic activity:					
agriculture, forestry and fishing	77	336	15	140	1
mining and guarrying	2	3	1	2	1
manufacturing	259	495	83	426	6
electricity, gas, steam, hot water and air conditioning supply	33	96	9	35	5
water supply; waste management and remediation activities	12	39	3	17	1
construction	57	152	8	59	1
wholesale and retail trade; repair of motor vehicles and motorcycles	164	218	34	131	4
transportation, storage, postal and courier activities	67	102	13	65	2
accommodation and food service activities	19	26	3	19	–
information and communication	296	166	274	178	15
financial and insurance activities	25	18	16	25	–
real estate activities	21	19	3	19	–

Continued

	Big Data	Internet of Things	Artificial intelligence	Radio-Frequency Identification (RFID)	Digital Twin
professional, scientific and technical activities	62	57	20	79	3
administrative and support service activities	12	40	2	14	–
education	14	7	14	31	3
higher education	13	7	13	31	3
human health	76	118	15	113	2
arts, sports, entertainment and recreation	12	9	3	12	–
repair of computers and personal and household goods	15	14	3	7	1
other personal service activities	6	16	2	5	–
	percentage of total organisations surveyed				
Total organisations	13.7	21.5	5.8	15.3	0.5
of which by economic activity:					
agriculture, forestry and fishing	7.5	32.9	1.5	13.7	0.1
mining and guarrying	33.3	50.0	16.7	33.3	16.7
manufacturing	20.5	39.1	6.6	33.6	0.5
electricity, gas, steam, hot water and air conditioning supply	22.8	66.2	6.2	24.1	3.4
water supply; waste management and remediation activities	19.4	62.9	4.8	27.4	1.6

Continued

	Big Data	Internet of Things	Artificial intelligence	Radio-Frequency Identification (RFID)	Digital Twin
construction	12.3	32.8	1.7	12.7	0.2
wholesale and retail trade; repair of motor vehicles and motorcycles	14.5	19.2	3.0	11.6	0.4
transportation, storage, postal and courier activities	32.7	49.8	6.3	31.7	1.0
accommodation and food service activities	22.9	31.3	3.6	22.9	–
information and communication	10.9	6.1	10.1	6.6	0.6
financial and insurance activities	47.2	34.0	30.2	47.2	–
real estate activities	21.4	19.4	3.1	19.4	–
professional, scientific and technical activities	20.6	18.9	6.6	26.2	1.0
administrative and support service activies	9.1	30.3	1.5	10.6	–
education	24.6	12.3	24.6	54.4	5.3
higher education	23.6	12.7	23.6	56.4	5.5
human health	10.7	16.6	2.1	15.9	0.3
arts, sports, entertainment and recreation	26.7	20.0	6.7	26.7	–
repair of computers and personal and household goods	3.6	3.3	0.7	1.7	0.2
other personal service activities	10.7	28.6	3.6	8.9	–

4.11. Electronic sales (procurement) of goods (works, services) in organisations 2024

(percentage of total organisations surveyed)

	Electronic sales of goods (works, services)			Electronic procurement of goods (work, services)		
	total	using		total	using	
		special forms posted on the website or Extranet	Electronic Data Interchange (EDI)		special forms posted on the website or Extranet	Electronic Data Interchange (EDI)
Republic of Belarus	40.9	37.9	19.1	64.9	62.3	33.8
Regions and Minsk city:						
Brest	43.6	39.6	25.8	74.5	72.5	43.9
Vitebsk	38.8	35.6	18.4	71.0	68.3	37.1
Gomel	38.2	35.0	18.1	71.1	69.7	37.0
Grodno	38.4	34.0	19.1	72.9	70.9	41.4
Minsk city	41.7	39.5	16.9	54.7	51.9	25.2
Minsk	43.9	39.9	23.3	71.0	67.4	40.7
Mogilev	35.9	32.8	17.7	77.4	75.2	43.5

4.12. Collection of e-waste by regions and Minsk city[1)]

(thousand tonnes)

	2019	2020	2021	2022	2023	2024
Republic of Belarus	25.5	29.1	23.9	21.8	23.1	25.2
Regions and Minsk city:						
Brest	2.6	3.3	3.4	3.3	3.5	3.5
Vitebsk	3.3	3.8	3.4	2.8	2.5	1.9
Gomel	3.7	4.5	4.2	4.1	4.3	4.4
Grodno	1.9	2.3	2.7	2.6	2.9	2.9
Minsk city	7.7	8.8	4.3	3.5	4.2	5.8
Minsk	3.7	3.3	3.1	3.1	3.4	4.2
Mogilev	2.7	3.2	2.8	2.5	2.3	2.5

[1)] According to the Ministry of Housing and Utilities of the Republic of Belarus.

5. ICT USE BY HOUSEHOLDS[1)]

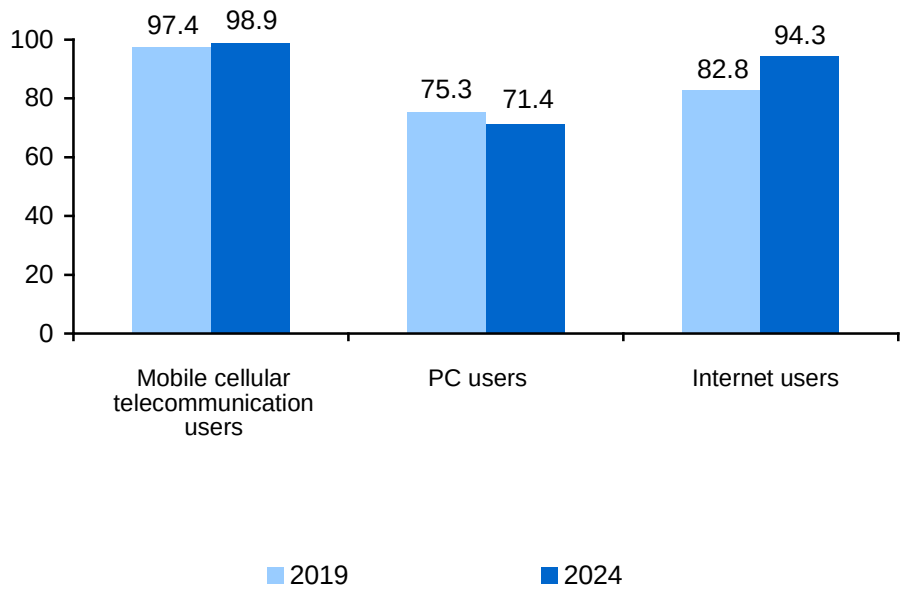
5.1. Main indicators of household access to ICT

(percent of total households)

	2020	2022	2024
Households with:			
television set	98.1	98.0	98.0
fixed telephone	90.9	86.0	80.5
mobile telephone	98.7	99.2	99.5
personal computer	71.2	67.0	67.5

5.2. ICT use by population[2)]

(percent of total population aged 6 – 72 years)



[1)] Data of sample household living standards survey.

[2)] Here and in tables 5.3 – 5.8 population aged 6 – 72 years.

5.3. Access of population to the Internet

(percent of total population of corresponding group)

	2019	2020	2021	2022	2023	2024
Internet users	82.8	85.1	86.9	89.5	91.5	94.3
by sex:						
men	82.5	84.2	86.0	88.6	90.7	93.7
women	83.0	85.7	87.5	90.1	92.1	94.7
by residence:						
cities and urban-type settlements	86.9	89.3	89.9	92.5	93.8	95.6
rural localities	71.3	73.0	76.9	79.7	83.7	89.8
by age group:						
6 – 15	91.4	91.8	91.3	94.6	95.0	96.7
16 – 24	99.1	97.7	98.9	98.8	98.0	99.7
25 – 54	93.3	94.4	96.0	97.2	97.8	98.8
55 – 64	67.8	72.6	80.3	84.5	88.3	92.1
65 – 72	39.3	48.5	58.0	64.8	71.5	80.4
by level of education:						
higher	94.5	95.1	95.8	97.2	98.0	98.7
secondary specialised	81.4	84.1	85.3	87.7	90.9	94.1
vocational technical	72.0	75.3	79.2	82.4	85.0	89.6
general secondary	70.3	74.9	76.3	80.6	83.1	87.2
general basic, primary, no education	79.2	82.2	90.1	89.6	91.3	94.3
by regions and Minsk city:						
Brest	79.2	80.7	83.7	86.6	89.4	93.2
Vitebsk	80.3	85.2	86.6	88.8	90.9	93.5
Gomel	82.2	86.1	87.2	89.4	92.7	94.3
Grodno	82.6	85.5	86.8	91.3	93.8	96.6
Minsk city	91.6	93.0	93.2	95.2	96.0	96.4
Minsk	77.5	79.5	81.2	83.8	86.3	92.7
Mogilev	82.8	82.8	86.7	89.4	89.5	92.0

5.4. Internet users by level of education, by regions and Minsk city in 2024

(percent of total population of corresponding group)

	Educational attainment				
	higher	secondary specialised	vocational technical	general secondary	general basic, primary, no education
Republic of Belarus	98.7	94.1	89.6	87.2	94.3
Regions and Minsk city:					
Brest	98.0	91.9	92.2	89.3	88.1
Vitebsk	98.5	94.4	88.4	83.3	87.3
Gomel	97.7	93.5	92.5	88.1	93.2
Grodno	99.6	96.0	91.5	91.4	97.9
Minsk city	99.1	95.7	86.9	93.5	97.9
Minsk	98.7	94.3	90.6	80.5	97.8
Mogilev	99.1	93.0	85.6	83.8	94.6

5.5. Age structure of Internet users by regions and Minsk city in 2024

(percent of total population of corresponding group)

	Internet users	Of which by age, years				
		6 – 15	16 – 24	25 – 54	55 – 64	65 – 72
Republic of Belarus	94.3	96.7	99.7	98.8	92.1	80.4
Regions and Minsk city:						
Brest	93.2	94.5	100.0	98.3	91.5	80.2
Vitebsk	93.5	98.9	97.4	98.4	91.7	79.2
Gomel	94.3	98.4	100.0	98.9	92.3	77.7
Grodno	96.6	100.0	100.0	99.3	95.9	85.4
Minsk city	96.4	97.1	100.0	98.9	93.4	87.5
Minsk	92.7	96.3	99.4	98.0	90.1	77.6
Mogilev	92.0	91.5	99.6	99.9	90.0	73.6

5.6. Internet users by point of Internet access in 2024

(percent of total Internet users of corresponding group)

	Points of Internet access					
	home	work	place of study	relative's, friend's, acquaintance's home	computer club, café, etc.	transport or street
Internet users	99.8	40.6	12.1	65.9	27.0	80.2
by sex:						
men	99.8	38.6	15.5	66.8	28.9	80.6
women	99.8	42.0	9.8	65.4	25.7	79.9
by residence:						
cities and urban-type settlements	99.8	42.4	12.8	67.7	28.8	83.1
rural localities	99.9	34.4	9.8	59.5	20.6	69.9
by age group, years:						
6 – 15	99.7	–	46.8	76.7	24.8	77.1
16 – 24	99.6	24.3	60.2	86.8	53.9	97.0
25 – 54	99.9	68.6	0.6	71.9	34.8	91.7
55 – 64	100.0	38.2	–	53.8	14.4	70.1
65 – 72	99.5	9.7	–	39.8	7.3	51.6
by level of education:						
higher	99.9	68.2	0.8	69.7	34.8	87.7
secondary specialized	99.8	46.8	1.4	61.6	22.9	78.6
vocational technical	99.8	36.4	1.7	54.9	19.0	73.1
general secondary	99.7	29.5	13.0	59.2	22.4	74.3
general basic, primary, no education	99.9	4.0	65.9	81.9	48.1	90.6
by regions and Minsk city:						
Brest	99.9	45.3	12.5	73.2	17.2	78.0
Vitebsk	100.0	40.9	11.7	65.2	18.1	76.3
Gomel	99.8	42.5	13.1	71.8	36.2	78.5
Grodno	99.5	38.3	10.5	62.3	18.3	84.5
Minsk city	99.7	44.2	13.6	64.8	33.3	84.6
Minsk	99.8	31.3	11.6	59.9	31.8	78.1
Mogilev	99.9	39.5	10.5	63.4	26.6	78.8

5.7. Internet users by frequency of Internet access in 2024

(percent of total)

	Total	Of which by frequency of access		
		daily	at least once a week	occasionally
Internet users	100	91.2	4.6	4.2
by sex:				
men	100	90.4	5.3	4.3
women	100	91.8	4.1	4.1
by residence:				
cities and urban-type settlements	100	92.6	4.1	3.3
rural localities	100	86.3	6.4	7.3
by age group, years:				
6 – 15	100	89.5	6.1	4.4
16 – 24	100	99.6	0.4	0.03
25 – 54	100	96.4	2.0	1.6
55 – 64	100	86.6	6.4	7.0
65 – 72	100	78.3	11.1	10.6
by level of education:				
higher	100	96.1	2.0	1.9
secondary specialised	100	89.5	5.3	5.2
vocational technical	100	88.4	7.1	4.5
general secondary	100	87.1	5.8	7.1
general basic, primary, no education	100	97.7	1.5	0.8
by regions and Minsk city:				
Brest	100	92.1	4.5	3.4
Vitebsk	100	94.0	4.0	2.0
Gomel	100	92.8	3.7	3.5
Grodno	100	92.4	2.3	5.3
Minsk city	100	93.7	2.7	3.6
Minsk	100	87.4	6.1	6.5
Mogilev	100	83.8	10.9	5.3

5.8. Internet users by purpose of Internet access in 2024

(percent of total Internet users of corresponding group)

	Internet use for personal purposes								
	sending or receiving e-mails, calls	viewing films, listening to music, playing computer games; downloading	social networking	seeking information about goods or services	reading or downloading newspapers, magazines, literature	financial transactions	ordering or selling goods, services	interacting with government organisations and government agencies	education purposes
Internet users	95.2	91.3	87.2	80.3	78.2	62.4	57.0	36.0	26.5
by sex:									
men	93.6	94.5	83.6	76.6	77.3	54.0	48.9	29.3	28.8
women	96.3	89.1	89.7	82.8	78.9	68.2	62.5	40.7	24.9
by residence:									
cities and urban-type settlements	95.6	92.4	88.3	82.0	81.6	65.5	59.9	40.6	28.3
rural localities	93.8	87.3	83.1	74.1	66.3	51.4	46.6	19.8	20.1
by age group, years:									
6 − 15	88.7	97.8	74.8	45.0	58.2	3.8	7.0	4.7	77.0
16 − 24	99.1	99.2	99.1	92.1	93.3	66.8	74.5	43.5	86.5
25 − 54	98.2	95.5	95.1	94.4	85.2	86.9	81.3	50.2	14.8
55 − 64	94.6	85.0	83.1	81.2	75.5	65.1	51.5	34.2	5.9
65 – 72	92.0	74.5	75.3	67.9	74.5	45.4	34.4	25.4	2.0
by level of education:									
higher	98.4	92.2	92.3	93.5	88.9	87.7	81.0	59.7	20.6
secondary specialised	96.5	88.8	88.4	86.1	79.1	73.4	64.1	37.3	9.1
техническое vocational technical	92.9	87.5	86.8	79.4	75.9	60.6	49.1	25.9	5.1
general secondary	94.7	88.4	86.9	81.6	77.6	60.5	57.0	30.6	18.9
general basic, primary, no education	97.6	97.8	96.3	82.3	85.5	35.8	44.8	22.8	84.2
by regions and Minsk city:									
Brest	93.2	89.6	86.0	76.0	71.8	59.1	48.8	28.4	21.3
Vitebsk	96.3	92.2	90.6	82.7	80.4	65.9	57.4	29.4	17.7
Gomel	94.2	93.7	87.3	80.9	75.6	61.1	58.3	31.8	29.2
Grodno	98.6	87.8	87.6	79.3	75.4	61.7	54.6	42.7	31.7
Minsk city	96.0	93.4	90.2	84.6	88.1	67.7	67.4	59.4	30.6
Minsk	94.1	88.2	82.0	77.8	71.4	57.0	53.2	18.4	28.0
Mogilev	94.7	92.8	85.6	78.1	80.6	62.2	51.8	29.1	23.0

5.9. User satisfaction with mobile cellular communication service quality in 2024

(percent of total)

	Total	Of which by level of satisfaction with cellular service communication quality				
		completely satisfied	rather satisfied	yes and no	rather dissatisfied	completely dissatisfied
Mobile cellular communication users aged 16 – 72 years	100	55.5	36.8	4.9	2.4	0.4
by sex:						
men	100	54.0	37.8	5.1	2.7	0.4
women	100	56.3	36.1	4.8	2.3	0.5
by residence:						
cities and urban-type settlements	100	57.3	36.1	4.2	2.2	0.2
rural localities	100	49.4	38.7	7.4	3.4	1.1
by regions and Minsk city:						
Brest	100	37.0	50.2	8.1	3.8	0.9
Vitebsk	100	63.1	30.0	3.5	2.9	0.5
Gomel	100	51.2	41.4	4.3	1.8	1.3
Grodno	100	66.2	28.4	3.8	1.3	0.3
Minsk city	100	57.6	32.9	6.3	3.2	0.04
Minsk	100	54.3	40.4	3.0	2.2	0.1
Mogilev	100	63.0	31.7	4.1	1.2	0.04

5.10. Satisfaction of Internet users with Internet service quality in 2024

(percent of total)

	Total	Of which by level of satisfaction with Internet service quality				
		completely satisfied	rather satisfied	yes and no	rather dissatisfied	completely dissatisfied
Internet users aged 16 – 72 years	100	43.3	44.5	7.9	3.7	0.6
by sex:						
men	100	41.8	45.8	8.1	3.8	0.5
women	100	44.3	43.6	7.8	3.7	0.6
by residence:						
cities and urban-type settlements	100	44.5	44.0	7.3	3.6	0.6
rural localitites	100	39.2	46.0	10.1	4.2	0.5
by regions and Minsk city:						
Brest	100	29.9	52.9	8.6	6.5	2.1
Vitebsk	100	45.0	38.0	9.2	6.7	1.1
Gomel	100	37.2	50.9	8.7	2.7	0.5
Grodno	100	52.0	39.9	6.5	1.6	0.04
Minsk city	100	47.2	39.6	9.4	3.6	0.2
Minsk	100	42.9	48.6	6.0	2.4	0.1
Mogilev	100	50.8	40.9	5.3	2.7	0.3

5.11. Household expenditure on communication services by regions and Minsk city

(percent of total consumption expenditure)

	2019	2020	2021	2022	2023	2024
Republic of Belarus	5.3	5.6	5.6	5.6	5.3	4.9
Regions and Minsk city:						
Brest	5.3	5.6	5.7	5.8	5.5	5.1
Vitebsk	5.4	5.9	6.1	5.9	5.6	5.2
Gomel	5.2	5.8	5.7	5.7	5.4	5.0
Grodno	5.3	5.9	5.8	5.6	5.5	5.1
Minsk city	4.8	5.0	4.9	4.8	4.6	4.2
Minsk	5.7	5.8	6.0	6.1	5.8	5.7
Mogilev	5.7	6.1	6.1	6.1	5.7	5.3

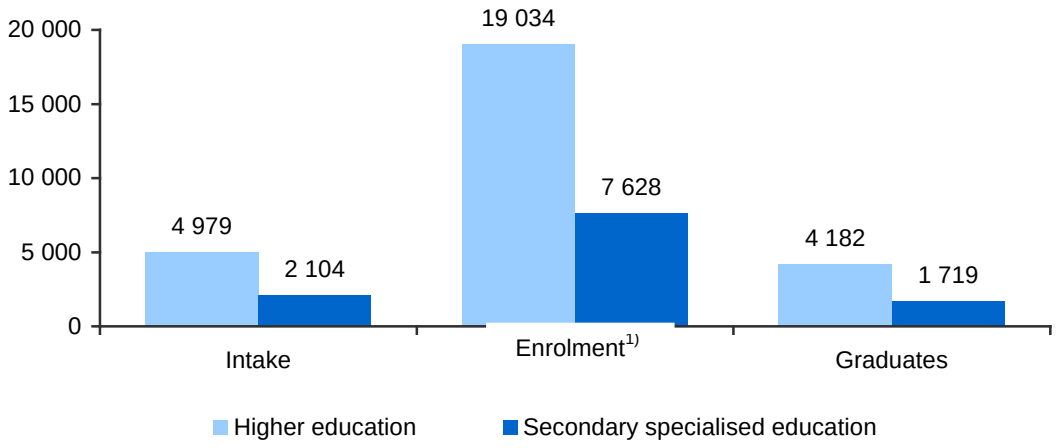
6. TRAINING OF ICT SPECIALISTS

6.1. Main indicators of ICT use in education

	2019	2020	2021	2022	2023	2024
Number of PCs used in education process per 100 full-time students in education institutions implementing programmes of, units:						
general secondary education	7	7	8	8	8	8
vocational-technical and secondary specialised education	13	14	15	15	14	14
higher education	18	20	20	22	23	21
Share of PCs with Internet access in total PCs used in education process in education institutions implementing vocational-technical and secondary specialised education programmes, %	59.3	61.1	63.7	67.8	68.7	69.6
Share of PCs with Internet access in total PCs used in education process in education institutions implementing higher education programmes, %	82.9	80.3	84.9	83.4	82.0	81.7

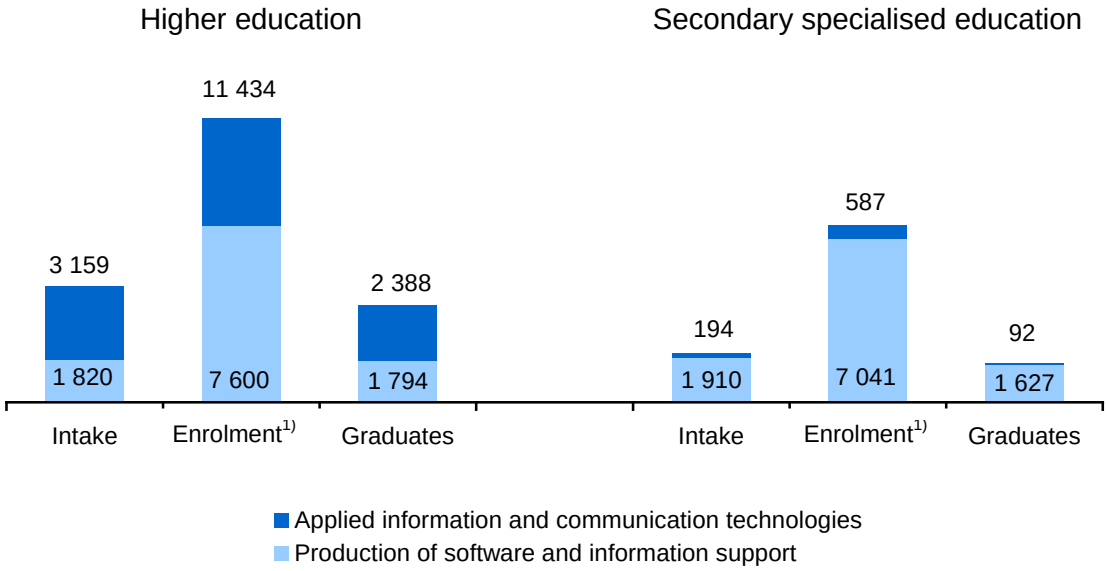
6.2. Training of specialists in "Information and Communication Technologies" education profile in 2024

(persons)



6.3. Training of specialists by specialty group in "Information and Communication Technologies" education profile in 2024

(persons)



1) At the beginning of academic year.

6.4. ICT use in education institutions implementing general secondary education programmes

(beginning of academic year)

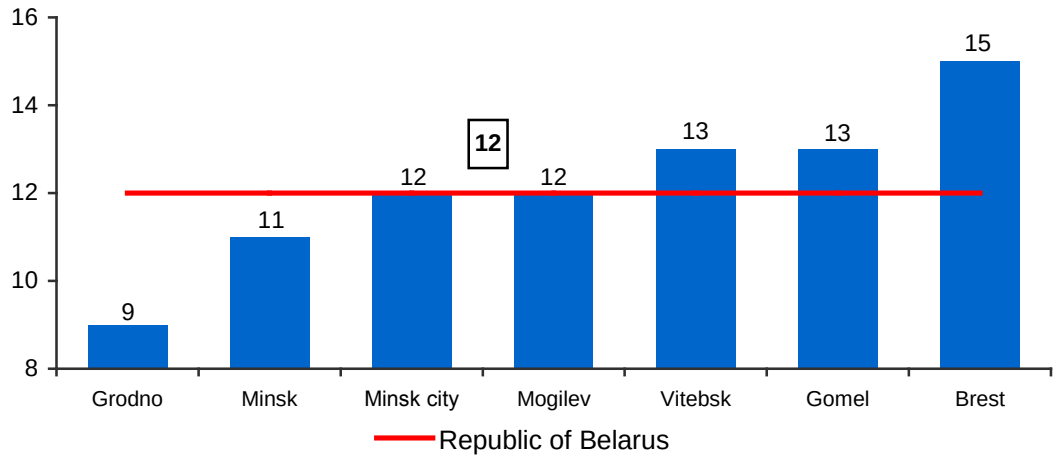
	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Total						
Number of institutions with:						
computer classrooms	2 738	2 739	2 673	2 616	2 573	2 580
as % of total institutions	90.7	91.0	90.1	90.2	89.6	90.6
Internet access	2 989	2 991	2 932	2 894	2 869	2 848
as % of total institutions	99.0	99.4	98.8	99.8	99.9	100.0
Number of PCs used in education process, units	73 945	77 930	82 398	84 230	86 973	89 900
per institution	24	26	28	29	30	32
per 1000 schoolchildren	72	74	77	78	80	83
Number of schoolchildren per PC	14	14	13	13	13	12
Number of computer classrooms per 100 institutions	140	142	145	146	146	151
Cities and urban-type settlements						
Number of institutions with:						
computer classrooms	1 256	1 239	1 262	1 240	1 239	1 257
as % of total institutions	88.1	86.9	88.2	88.0	87.9	88.9
Internet access	1 405	1 412	1 422	1 405	1 407	1 415
as % of total institutions	98.5	99.1	99.4	99.7	99.8	100.0

Continued

	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of PCs used in education process	53 792	57 273	60 581	62 382	64 461	67 025
per institution	38	40	42	44	46	47
per 1000 schoolchildren	63	65	67	68	70	73
Number of schoolchildren per PC	16	15	15	15	14	14
Number of computer classrooms per 100 institutions	185	187	192	194	195	200
Rural localities						
Number of institutions with:						
computer classrooms	1 482	1 500	1 411	1 376	1 334	1 323
as % of total institutions	93.0	94.7	91.9	92.3	91.2	92.3
Internet access	1 584	1 579	1 510	1 489	1 462	1 433
as % of total institutions	99.4	99.7	98.3	99.9	100.0	100.0
Number of PCs used in education process	20 153	20 657	21 817	21 848	22 512	22 875
per institution	13	13	14	15	15	16
per 1000 schoolchildren	117	120	130	130	137	142
Number of schooldchildren per PC	9	8	8	8	7	7
Number of computer classrooms per 100 institutions	100	101	101	101	100	102

6.5. Number of schoolchildren per PC in education institutions implementing general secondary education programmes by regions and Minsk city

(beginning of academic year 2024/25; persons)



6.6. ICT use in education institutions implementing vocational-technical and secondary specialised education programmes

(beginning of academic year)

	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of computer classrooms	1 005	992	999	1 013	1 041	1 212
Number of PCs used in education process	20 247	21 460	22 326	22 451	22 269	23 163
of which:						
connected to local area networks	13 385	13 656	14 664	15 548	15 140	15 627
connected to the Internet	11 999	13 102	14 218	15 221	15 308	16 115
per 1000 students	131	142	150	147	139	137
Number of PCs with Internet access						
of total PCs used in education process, %	59.3	61.1	63.7	67.8	68.7	69.6
per 1000 students, units	77	86	95	100	96	95

6.7. ICT use in educational institutions implementing higher education programmes

(beginning of academic year)

	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of PCs used in education process	30 793	32 295	32 689	33 870	34 706	33 432
of which:						
connected to local area networks	26 923	28 293	28 702	29 636	30 077	29 320
connected to the Internet	25 527	25 925	27 753	28 250	28 443	27 305
per institution	604	646	654	677	708	711
per 1000 students and Master's students	184	195	198	218	227	210
Number of PCs with Internet access						
of total PCs used in education process, %	82.9	80.3	84.9	83.4	82.0	81.7
per 1000 students and Master's students, units	153	156	168	182	186	171

Information society in the Republic of Belarus

Statistical book

Responsible for the issue:
T.V.Maksimava

National Statistical Committee of the Republic of Belarus
12 Prospekt Partizansky, 220070 Minsk, Republic of Belarus
Tel. (+375-17) 379-17-96
E-mail: belstat@belstat.gov.by
http://www.belstat.gov.by