Interstate Statistical Committee of the Commonwealth of Independent States
(CIS-Stat)

ICT indicators in the SDGs

Svetlana Kuzovkova

CIS Region on the Path to Achieving the Sustainable Development Goals
May 21-23, 2025
Bishkek, Kyrgyz Republic

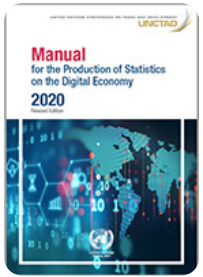
The key issues

1. International recommendations
2. ICT indicators in the SDGs
3. Administrative data
4. Household surveys
5. ICT skills

International recommendations

Handbook for the Collection of Administrative Data on Telecommunications/ICT, 2020 Edition, ITU

Manual for Measuring ICT Access and Use by Households and Individuals, 2020 Edition, ITU



Manual for the Production of Statistics on the Digital Economy 2020, UNCTAD

ICT indicators in the SDGs

4.4.1 Proportion of youth and adults with information and communications technology (ICT) skills, by type of skill *(household surveys)*

4.a.1.b Proportion of schools with access to the Internet for pedagogical purposes *(administrative data)*

4.a.1.c Proportion of schools with access to computers for pedagogical purposes *(administrative data)*

5.b.1 Proportion of individuals who own a mobile telephone, by sex *(household surveys)*

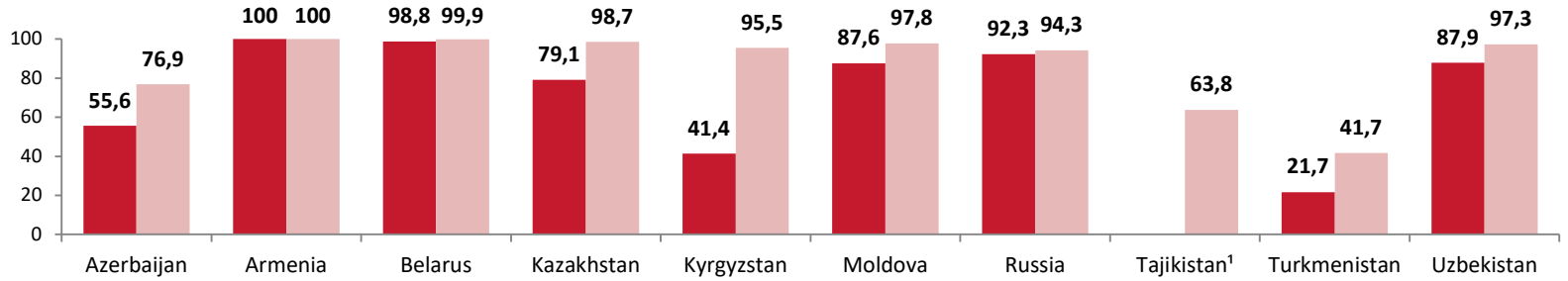
9.c.1 Proportion of population covered by a mobile network, by technology *(administrative data)*

17.6.1 Fixed broadband subscriptions per 100 inhabitants, by speed *(administrative data)*

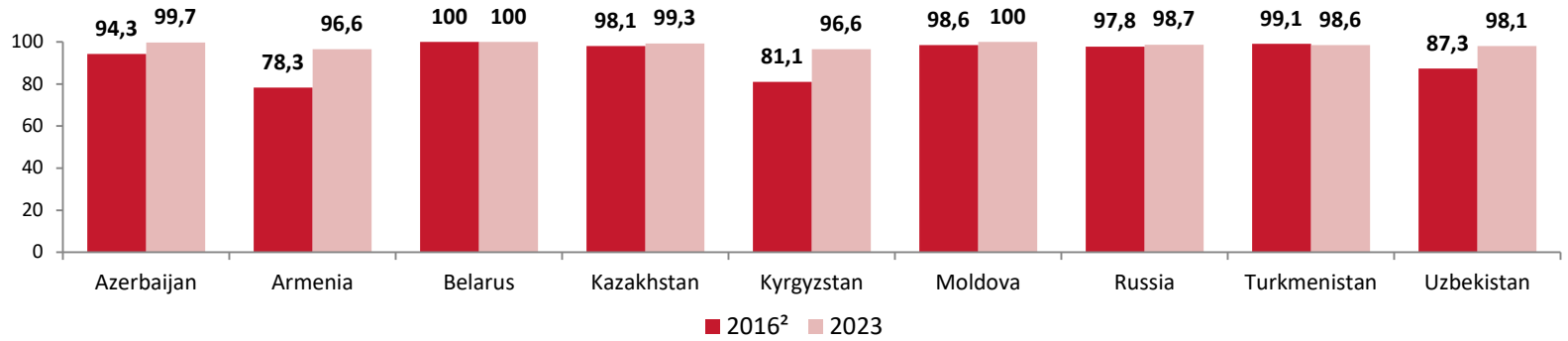
17.8.1 Proportion of individuals using the Internet *(household surveys)*

Administrative data (1/5)

4.a.1.b Proportion of schools with access to the Internet for pedagogical purposes (in total number of schools, %)



4.a.1.c Proportion of schools with access to computers for pedagogical purposes (in total number of schools, %)

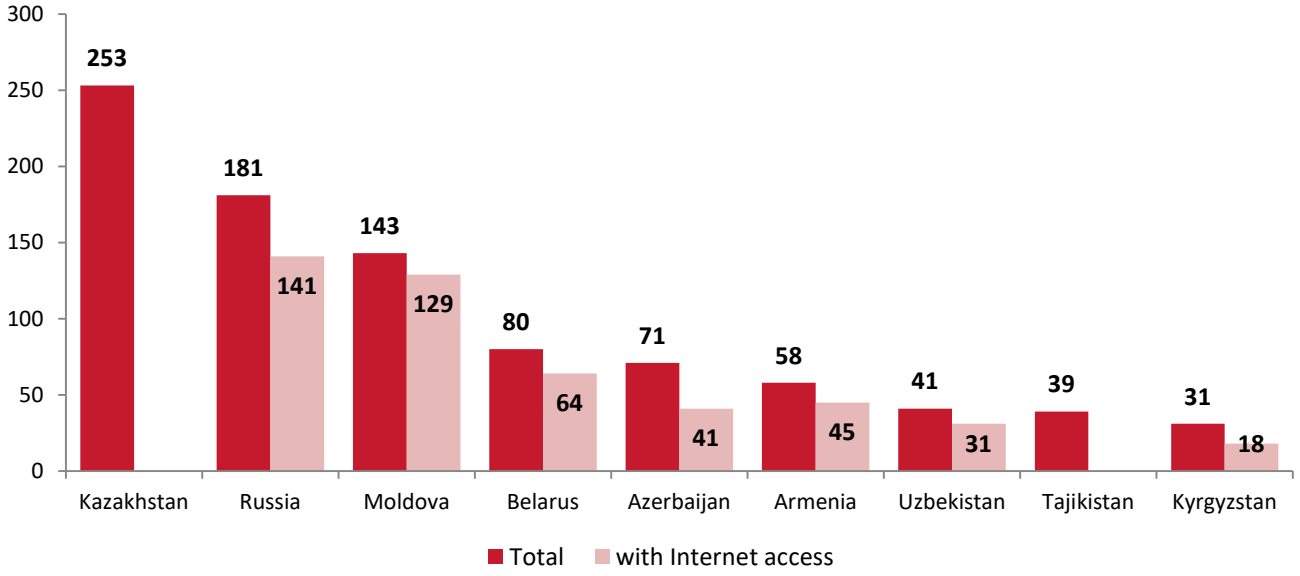


[1] 2021.
[2] Uzbekistan 2017.

Administrative data (2/5)

Personal computers used for educational purposes in full-time educational institutions in 2023

(per 1,000 students; units)



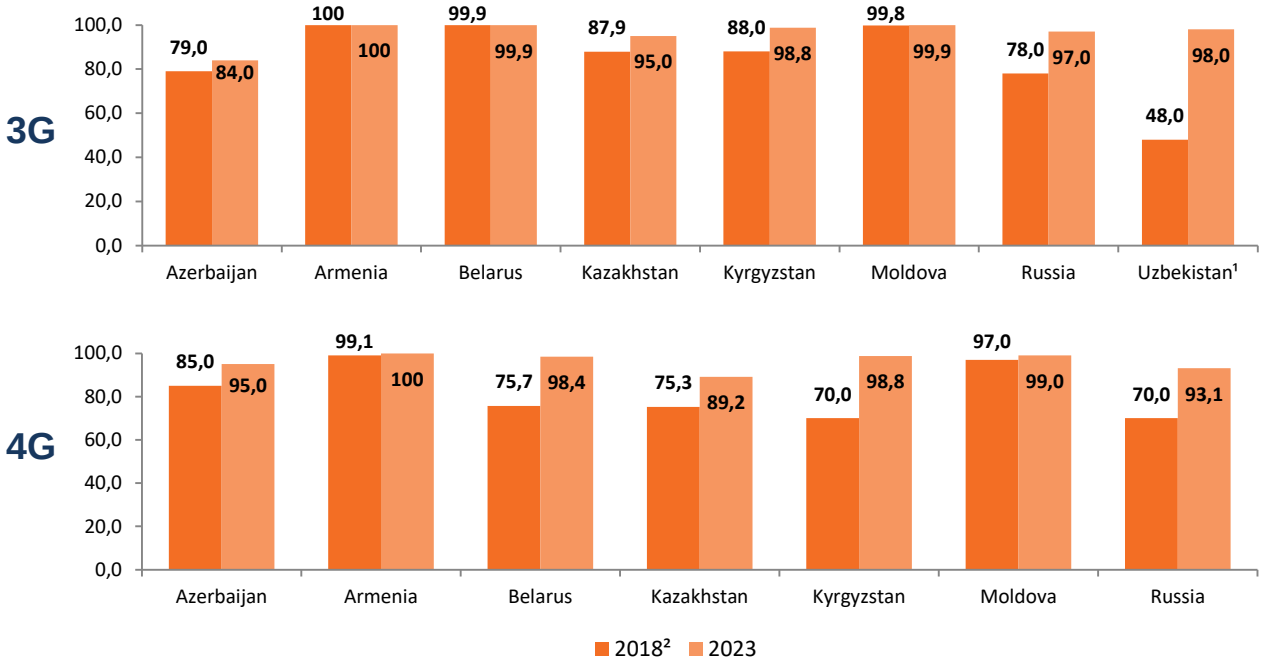
In most countries of the region, the provision of computers for students in rural areas is better than in urban areas.

Compared with 2015, in Kazakhstan, the provision of computers to students has increased 2.6 times.

In Kyrgyzstan, the availability of computers with access to Internet has increased 2.6 times since 2020, and 3.1 times in Uzbekistan.

Administrative data (3/5)

9.c.1. Proportion of population covered by a mobile network, by technology (%)



Tajikistan does not provide data.

Universal mobile internet access is provided in Armenia.

In Kyrgyzstan, compared to 2018, the most active growth of population coverage by 4G mobile networks (28.8 percentage points).

In Uzbekistan, population coverage with 5G networks is 17%.

[1] 3G and 4G.
[2] 2020.

Administrative data (4/5)

Fixed broadband subscriptions

- DSL (telephone line)
- Cable Internet
- Fiber Optic
- Satellite Communication
- Terrestrial fixed wireless (WiMAX)

Kyrgyzstan, Turkmenistan

- 256 kbit/s to less than 2 Mbit/s
- 2 Mbit/s to less than 10 Mbit/s
- Equal to or above 10 Mbit/s

Azerbaijan, Armenia, Belarus, Kazakhstan, Moldova, Uzbekistan

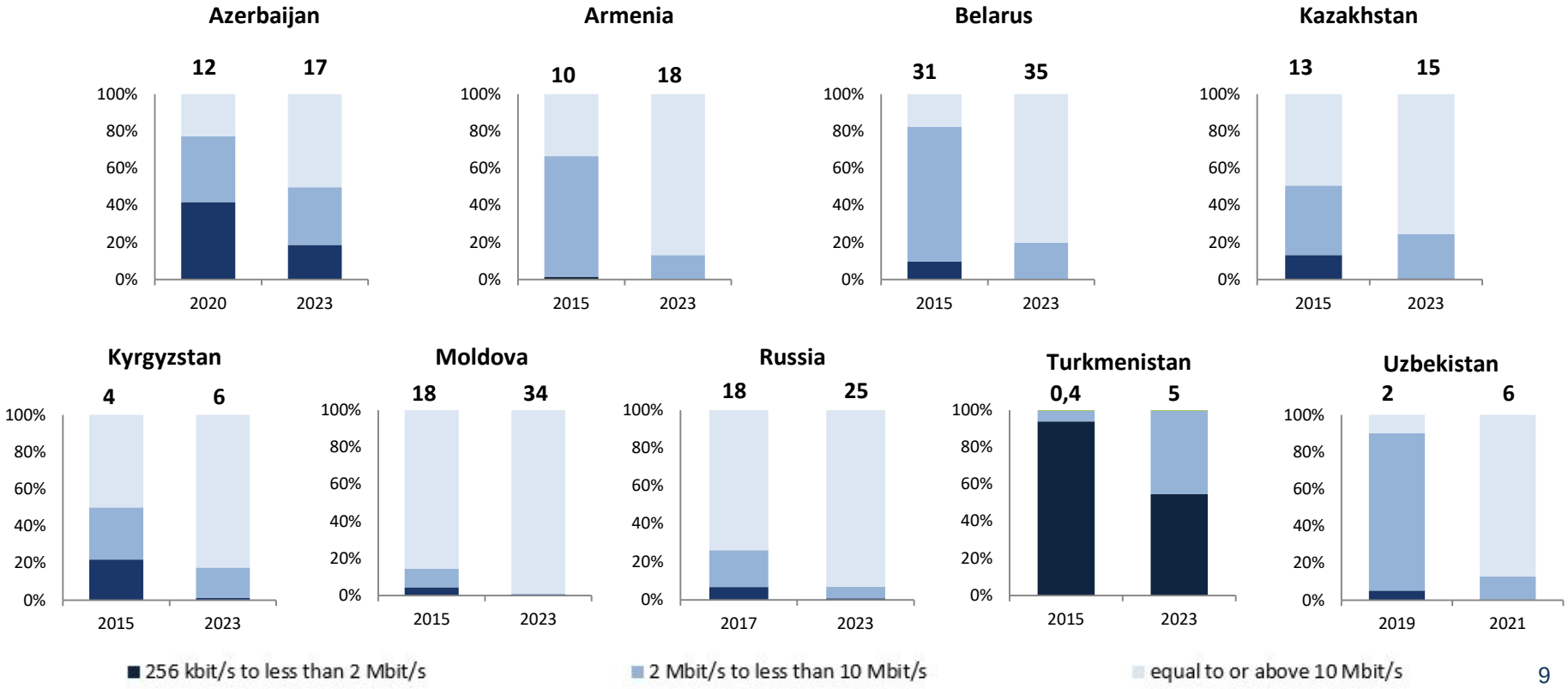
- 256 kbit/s to less than 2 Mbit/s
- 2 Mbit/s to less than 10 Mbit/s
- 10 Mbit/s to less than 30 Mbit/s
- 30 Mbit/s to less than 100 Mbit/s
- Equal to or above 10 Mbit/s

Russia

- 256 kbit/s to less than 2 Mbit/s
- 2 Mbit/s to less than 10 Mbit/s
- 10 Mbit/s to less than 20 Mbit/s
- 20 Mbit/s to less than 100 Mbit/s
- 100 Mbit/s to less than 1 Gbit/s
- Equal to or above 1 Gbit/s

Administrative data (5/5)

17.6.1. Fixed broadband subscriptions per 100 inhabitants, by speed



Household surveys

June 2024

Was sent "Questionnaire on the practical experience of CIS countries in organizing sample surveys of the population on the use of ICT in households"

July 2024

Responses were received from 8 countries: Azerbaijan, Armenia, Belarus, Kazakhstan, Kyrgyzstan, Moldova, Russian Federation, Uzbekistan

November 2024

Has been prepared **“Review containing a comparative analysis of existing national methodologies and tools for collecting data on the use of ICT in households within a region”**

Surveys on ICT use in CIS countries

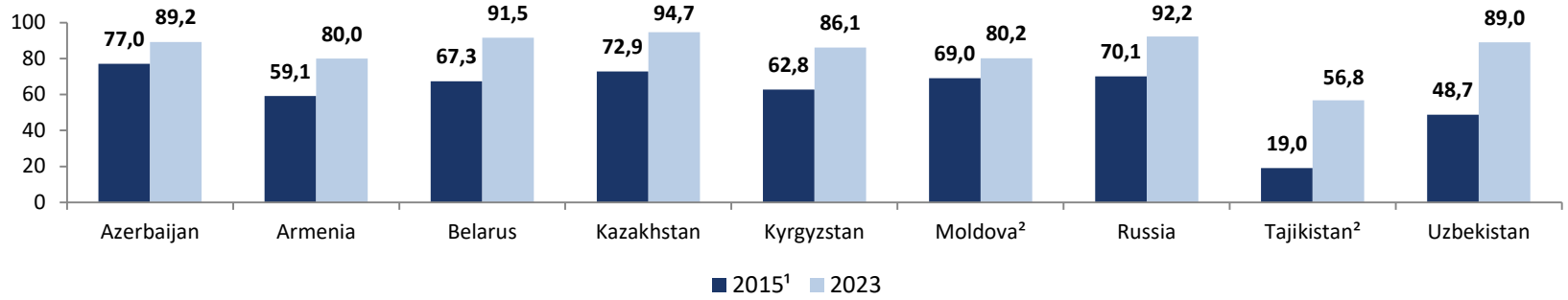
Azerbaijan	• Sample statistical survey to study the use of ICT in households
Armenia	• Selected ICT issues in the Integrated Survey of Living Conditions (Standards) of Households
Belarus	• Sample Survey of Households on Living Standards. "Questionnaire on Studying Household Access to Information and Communication Technologies"
Kazakhstan	• Household Survey on use of Information and communication technologies
Kyrgyzstan	• Selected ICT issues in the Integrated sample survey of household budgets and labor force
Russia	• Module of sample survey of labor force. "Questionnaire of selective federal statistical observation on the use of information technologies and information-telecommunication networks by the population". Separate questions on the use of ICT contained in the sample survey of household budgets and complex monitoring of the living conditions of the population
Uzbekistan	• Questionnaire on the availability of access to ICT means of household members and the scale of their use

Survey features

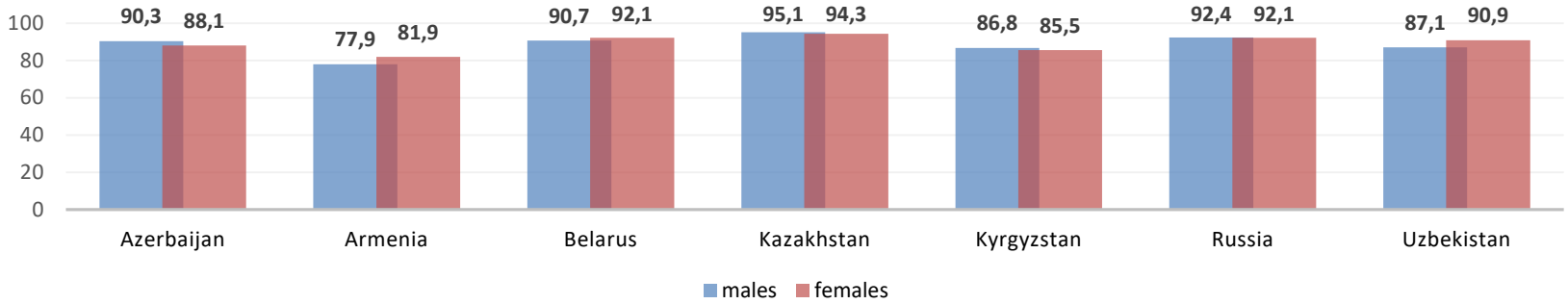
- **Survey coverage** (the percentage of coverage of the general population ranges from 0.20 in Uzbekistan to 0.65 in Armenia)
- **Age thresholds for respondents** (in Armenia, all household members are surveyed, in Russia, household members aged 15 years and older)
- **Accounting period** (In Kazakhstan and Uzbekistan, the accounting period of the survey is the last three months. In Russia, there are two accounting periods – the past year and the last three months, in other countries for the past year)
- **A set of indicators** (Armenia – 10 indicators recommended by ITU, Azerbaijan and Uzbekistan - all 23 indicators)
- **Different wording of the questions** (Armenia and Kyrgyzstan use 7 standard questions recommended by ITU)
- **Different disaggregation of indicators**

Survey data (1/2)

17.8.1. Proportion of individuals using the Internet (%)



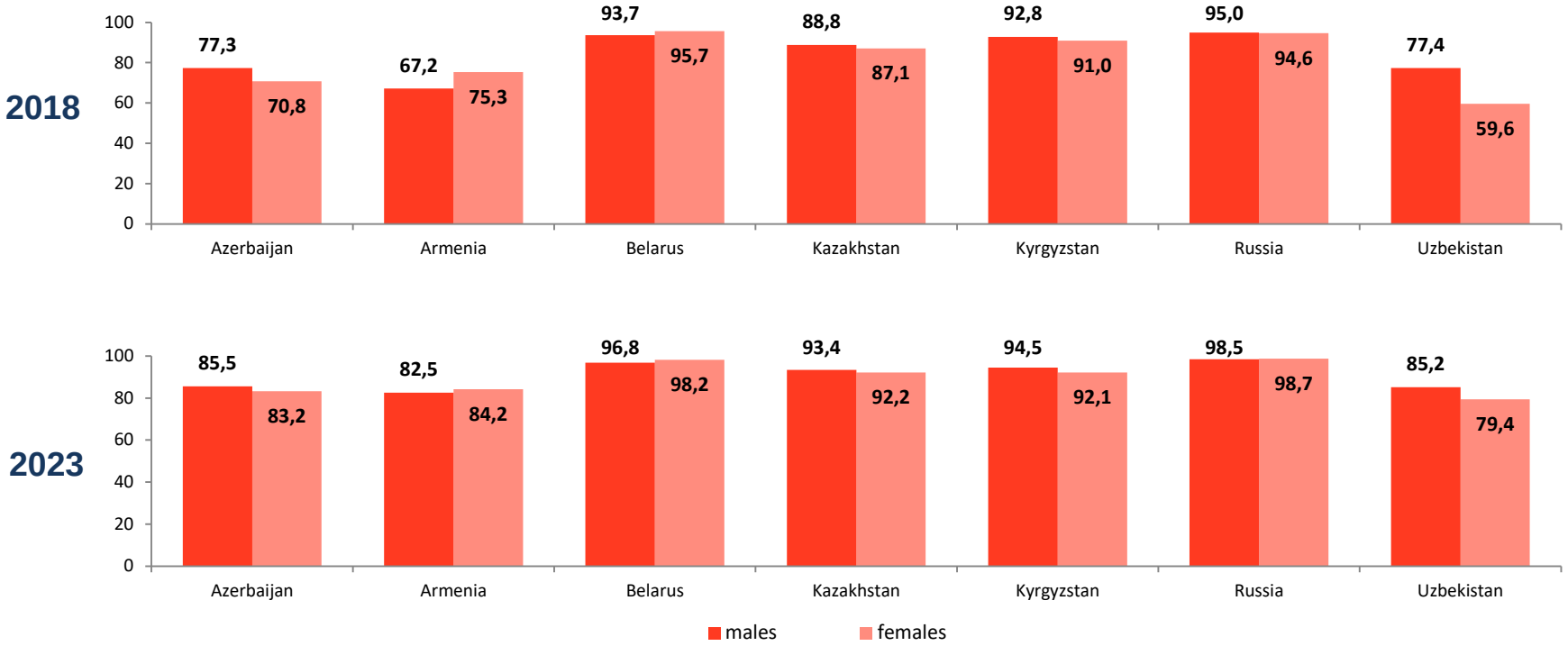
Proportion of individuals using the Internet in 2023, by gender (%)



[1] Kyrgyzstan – 2018, Uzbekistan – 2017.
[2] ITU assessment.

Survey data (2/2)

5.b.1. Proportion of individuals who own a mobile telephone, by sex (%)



ICT skills (2/2)

Actions related to working with a computer:

- Copying or moving a file or folder
- Using the copy and paste tool to duplicate or move information in a document
- Using basic arithmetic formulas in spreadsheets
- Connecting and installing new devices (modem, printer, camera, etc.)
- Search, download, install, and configure software
- Sending email with attached files
- Creating electronic presentations using special software
- Transfer files between computers and other devices
- Writing computer programs using a specialized programming language

Since **2023**

Actions performed regardless of the type of device used:

Information and data literacy
- ► Verifying the reliability of information found online
- ► Getting information about goods or services
- ► Reading or downloading newspapers, magazines or electronic books in a digital format
- ► Seeking health information

Digital content creation
- ►Using copy and paste tools to duplicate or move data, information and content in digital environments
- ► using basic arithmetic formulae in a spreadsheet
- ►creating electronic presentations with presentation software (including text, images, sound, video or charts)
- ► using software run over the Internet for editing text documents, spreadsheets or presentations
- ► programming or coding in digital Environments

Communication and collaboration
- ►Sending messages with attached files (e.g. e-mail, messaging service, SMS)
- ► making calls (video calls) via the Internet using applications (WhatsApp, Viber, etc.)
- ► participating in social networks
- ► taking part in consultations or voting via the Internet to define civic or political issues

Safety
- ► changing privacy settings on your device, account or app to limit the sharing of personal data and information
- ► setting up effective security measures to protect devices and online accounts

Problem solving
- ► Internet banking
- ► purchasing or ordering goods or services
- ► finding, downloading, installing and configuring software and apps
- ► doing an online course (in any subject)
- ► connecting and installing new devices through wired or wireless technologies

ICT skills (1/2)

4.4.1 Proportion of youth and adults with information and communications technology (ICT), 2023

(according to sample surveys, %)

	Azerbaijan		Belarus		Kazakhstan		Kyrgyzstan[1]		Russia		Uzbekistan	
	total	15-24	total	15-24	total	15-24	total	15-24	total	15-24	total	15-24
Copying or moving a file or folder	61,3	83,8	…	…	29,2	35,4	16,5	25,0	…	…	45,1	70,2
Using the copy and paste tool to duplicate or move information in a document	59,1	80,9	43,8	81,8	17,8	22,5	16,2	23,9	38,5[2]	63,5[2]	29,3	51,0
Using basic arithmetic formulas in spreadsheets	22,5	45,1	23,8	48,7	46,8	60,4	9,1	12,8	27,1[3]	49,2[3]	14,9	25,4
Connecting and installing new devices (modem, printer, camera, etc.)	24,6	29,2	21,8	42,7	16,9	22,4	7,5	9,0	16,5	26,6	7,5	10,6
Search, download, install, and configure software	23,6	22,5	31,6	60,9	24,9	29,1	6,3	7,2	13,3	22,4	6,3	8,4
Sending email with attached files	48,7	79,7	40,8	72,9	54,1	53,6	14,2	19,5	78,7[4]	87,6[4]	16,2	23,2
Creating electronic presentations using special software	16,7	23,5	12,7	46,7	25,7	37,0	8,4	11,9	14,0	38,0	8,4	15,8
Transfer files between computers and other devices	16,7	21,8	45,4	81,7	24,1	29,7	8,8	10,7	26,1	39,8	9,1	15,7
Writing computer programs using a specialized programming language	5,0	5,2	1,7	7,4	5,7	7,4	1,7	1,4	1,5	3,1	2,6	4,4

[1] Share of women aged 15-49 years.
[2] Copying, inserting or moving text, photo, video, audio files (for example, in a document, between documents, in the cloud).
[3] Working with spreadsheets (for example, using functions such as filtering, sorting, formulas, creating charts, etc.).
[4] Sending messages by e-mail, via messengers (WhatsApp, Telegram, Viber and others), via SMS with an attached file(s) (for example, with documents, photo, video, audio files or other files).

Thank you

new.cisstat.org