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INFORMACIONO DRUŠTVO

INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, četvrti kvartal 2023.

ELECTRONIC COMMUNICATIONS, fourth quarter 2023

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u četvrtom kvartalu 2023. godine iznosio je 472 720 što predstavlja pad od 6,4% u odnosu na četvrti kvartal 2022. godine.

Total number of fixed telephone lines of dominant operators in the fourth quarter 2023 was 472 720 which represents a decrease of 6.4% compared to the fourth quarter 2022.

Ukupni odlazni saobraćaj fiksne telefonske mreže u četvrtom kvartalu 2023. godine iznosio je 238 350 668 minuta, što pokazuje pad od 12,9% u odnosu na četvrti kvartal 2022. godine.

The total traffic of fixed telephone network in the fourth quarter 2023 was 238 350 668 minutes which shows a decrease of 12.9% compared to the fourth quarter 2022.

Broj korisnika mobilne mreže u četvrtom kvartalu 2023. godine iznosio je 3 874 277 i bilježi rast od 1,6% u odnosu na četvrti kvartal 2022. godine. Ukupni odlazni saobraćaj mobilne mreže u četvrtom kvartalu 2023. godine iznosio je 646 624 422 minuta, što pokazuje pad od 1,5% u odnosu na četvrti kvartal 2022. godine.

Number of mobile phone users in the fourth quarter 2023 was 3 874 277 which shows an increase of 1.6% compared to the fourth quarter 2022. The total traffic of mobile telephone network in the fourth quarter of 2023 was 646 624 422 minutes which shows a decrease of 1.5% compared to the fourth quarter of 2022.

Broj poslanih SMS poruka u četvrtom kvartalu 2023. godine manji je za 2,3%, broj poslanih MMS poruka veći je za 4,7% u odnosu na četvrti kvartal 2022. godine.

Number of SMS messages sent in the fourth quarter 2023 decreased by 2.3%, while the number of MMS messages sent increased by 4.7%, compared to the fourth quarter 2022.

Ukupan broj internet priključaka putem fiksne mreže u četvrtom kvartalu 2023. godine iznosio 907 951 i bilježi rast od 3,7% u odnosu na četvrti kvartal 2022. godine.

The total number of Internet connections via the fixed network in the fourth quarter of 2023 was 907 951 which shows an increase of 3.7% compared to the fourth quarter 2022.

1. FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table 1.1 Fixed telephone network

	IV Kvartal quarter	IV Kvartal quarter	III Kvartal quarter	IV Kvartal quarter	IV 2023 III 2023	IV 2023 IV 2022	
	2021.	2022.	2023.	2023.	Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera	543 117	505 128	482 178	472 720	98,0	93,6	Total number of fixed telephone lines of dominant operators
Broj novih operatera fiksne telefonije	14	12	10	10	100,0	83,3	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	145 498	145 333	142 351	140 926	99,0	97,0	The total number of own subscribers to new operators
Ukupan broj pretplatnika novih operatera sa indirektnim pristupom	227	173	173	173	100,0	100,0	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	100 033	105 516	107 990	108 665	100,6	103,0	The total number of transferred fixed numbers

Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)

Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 1.1 Fiksna telefonska mreža- Ukupan broj aktivnih fiksnih telefonskih linija inkumbent operatera

Graph 1.1 Fixed telephone network- Total number of fixed telephone lines of incumbent operator

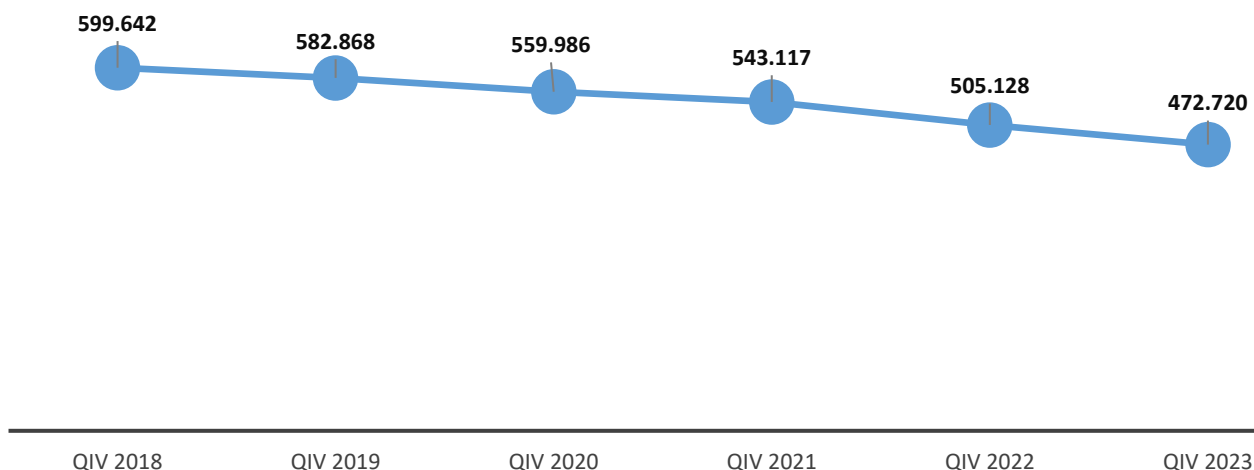
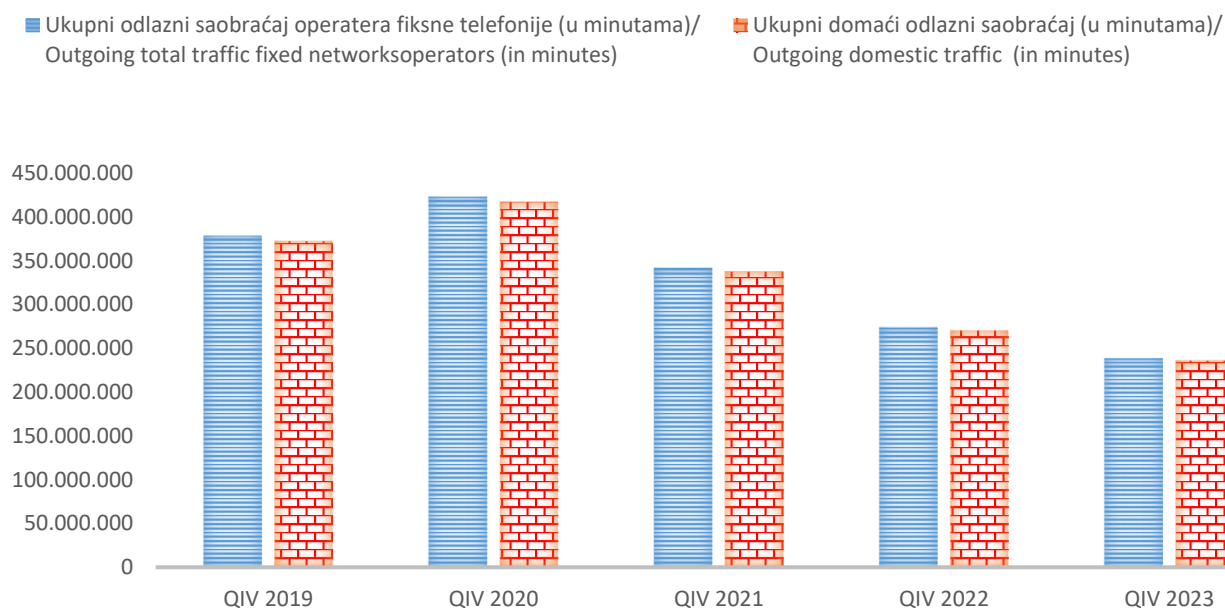


Tabela 1.2 Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

Odlazni saobraćaj operatera u minutama	IV Kvartal/ quarter	IV Kvartal/ quarter	IV Kvartal/ quarter	III Kvartal/ quarter	IV Kvartal/ quarter	Outgoing traffic operators in minutes
	2020.	2021.	2022.	2023.	2023.	
Ukupno odlazni saobraćaj operatera fiksne telefonije	422 653 219	341 775 603	273 722 198	228 079 946	238 350 668	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	416 935 754	337 437 883	270 161 127	225 215 032	235 584 710	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	5 717 465	4 337 720	3 561 070	2 864 914	2 765 958	International outgoing fixed telephone traffic

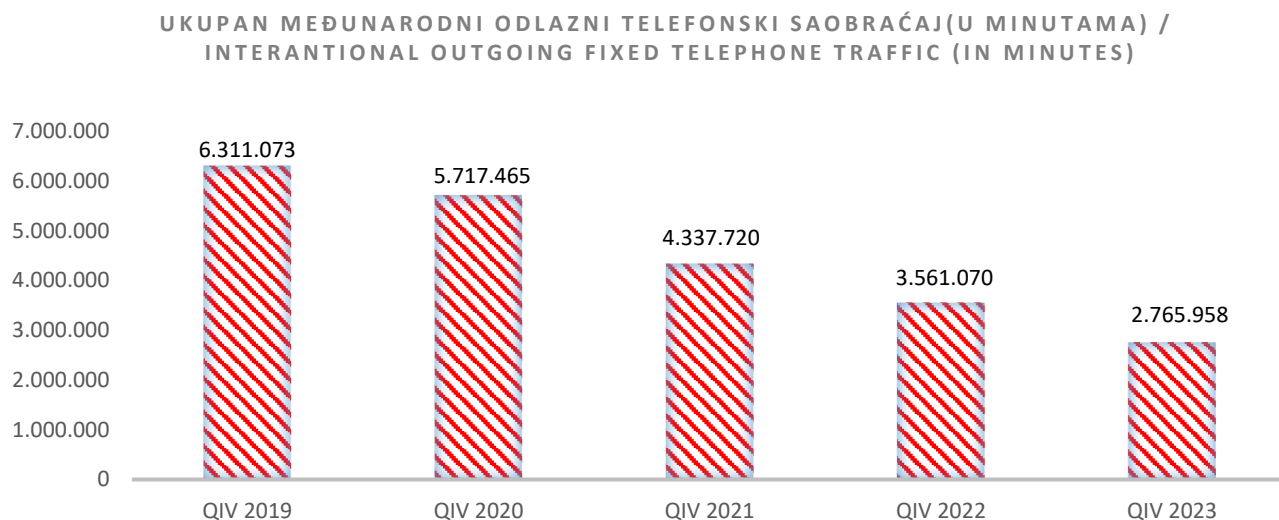
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
 Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	IV 2023 IV 2021	IV 2023 IV 2022	IV 2023 III 2023	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	69,7	87,1	
Ukupni domaći odlazni saobraćaj	69,8	87,2	104,6	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	63,8	77,7	96,5	International outgoing fixed telephone traffic

Grafikon 1.2 Saobraćaj ostvaren putem fiksne telefonske mreže*Graph 1.2 Traffic accomplished via fixed telephone network*

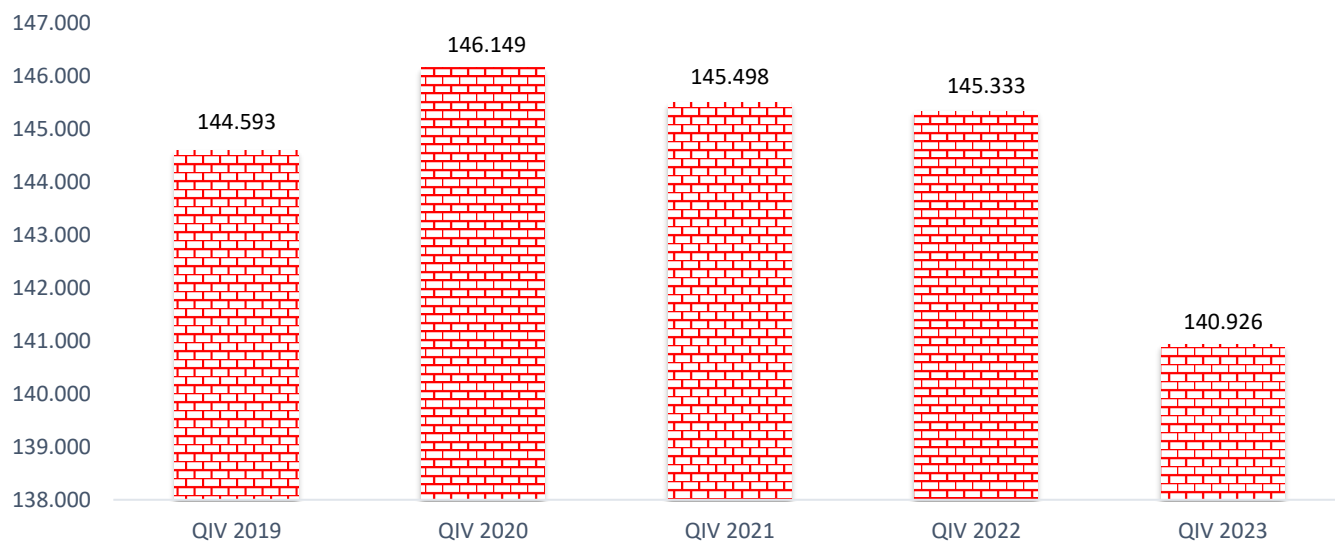
Grafikon 1.2.1 Saobraćaj ostvaren putem fiksne telefonske mreže

Graph 1.2.1 Traffic accomplished via fixed telephone network



Grafikon 1.3 Ukupan broj vlastitih pretplatnika novih operatera

Graph 1.3 Alternative operators - Total number of direct access subscriber



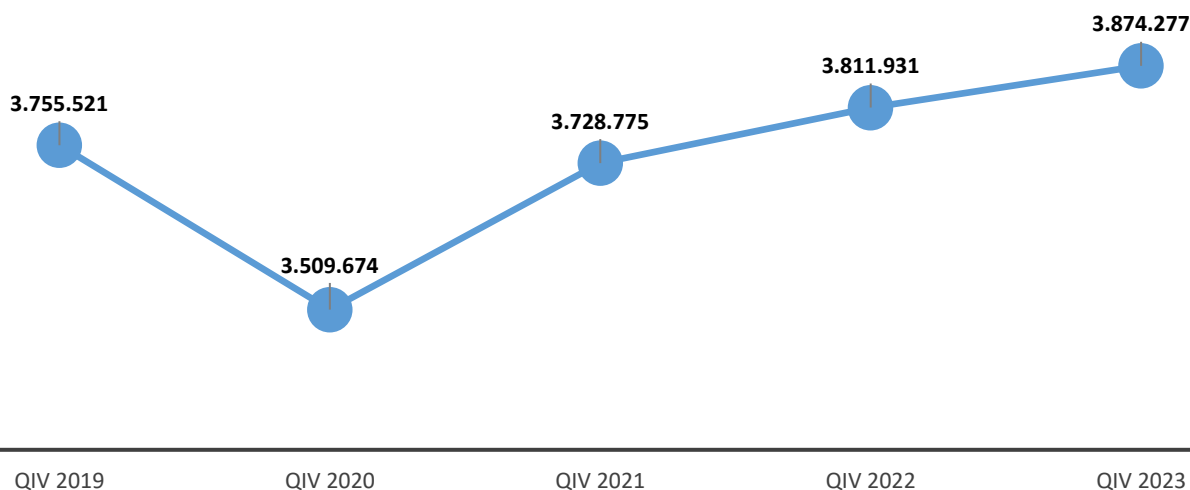
2 MOBILNA TELEFONSKA MREŽA

Tabela 2 Mobilna telefonska mreža
Table 2 Mobile telephone network

	IV Kvartal quarter 2021	IV Kvartal quarter 2022	III Kvartal quarter 2023	IV Kvartal quarter 2023	IV 2023 III 2023	IV 2023 IV 2022	
	Indeksi/Indicies						
Ukupan broj korisnika mobilne mreže	3 728 775	3 811 931	3 875 782	3 874 277	100,0	101,6	Total number of mobile network users
Penetracija mobilne telefonije	107,30%	110,39%	112,86%	112,82%	100,0	102,2	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	105 999	121 216	136 562	144 867	106,1	119,5	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	681 131 665	656 444 264	638 935 327	646 624 422	101,2	98,5	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	87 761 023	70 386 724	69 882 981	68 743 356	98,4	97,7	SMS sent
Broj poslatih MMS poruka	305 716	325 649	330 285	340 903	103,2	104,7	MMS sent

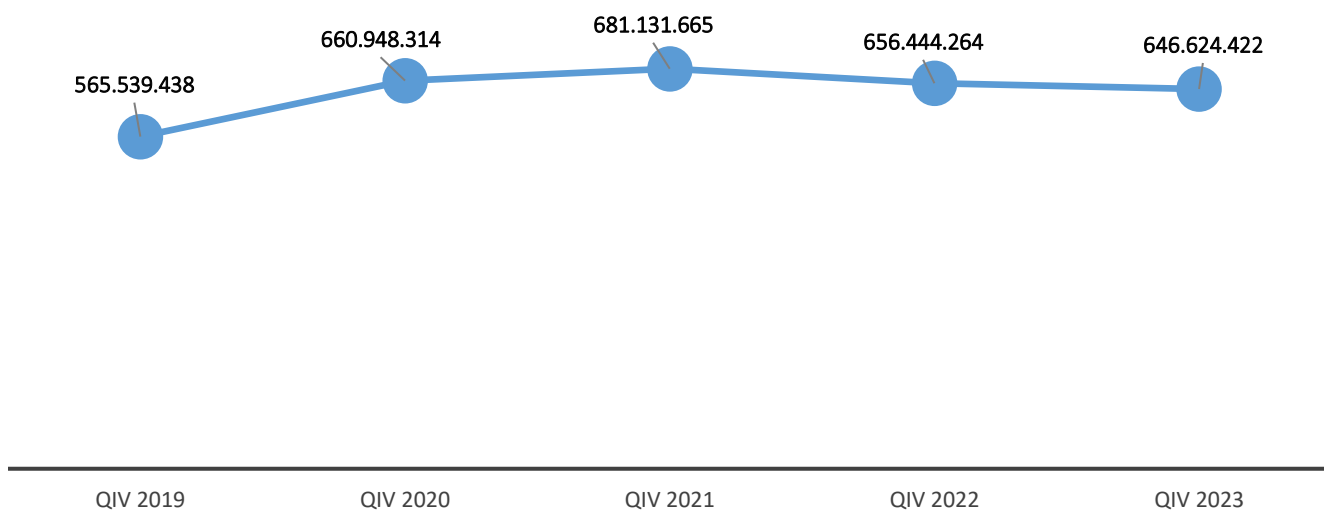
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 2.1 Broj korisnika telefonskih usluga u mobilnoj telefoniji
Graph 2.1 Number of users of telephone services in mobile telephony



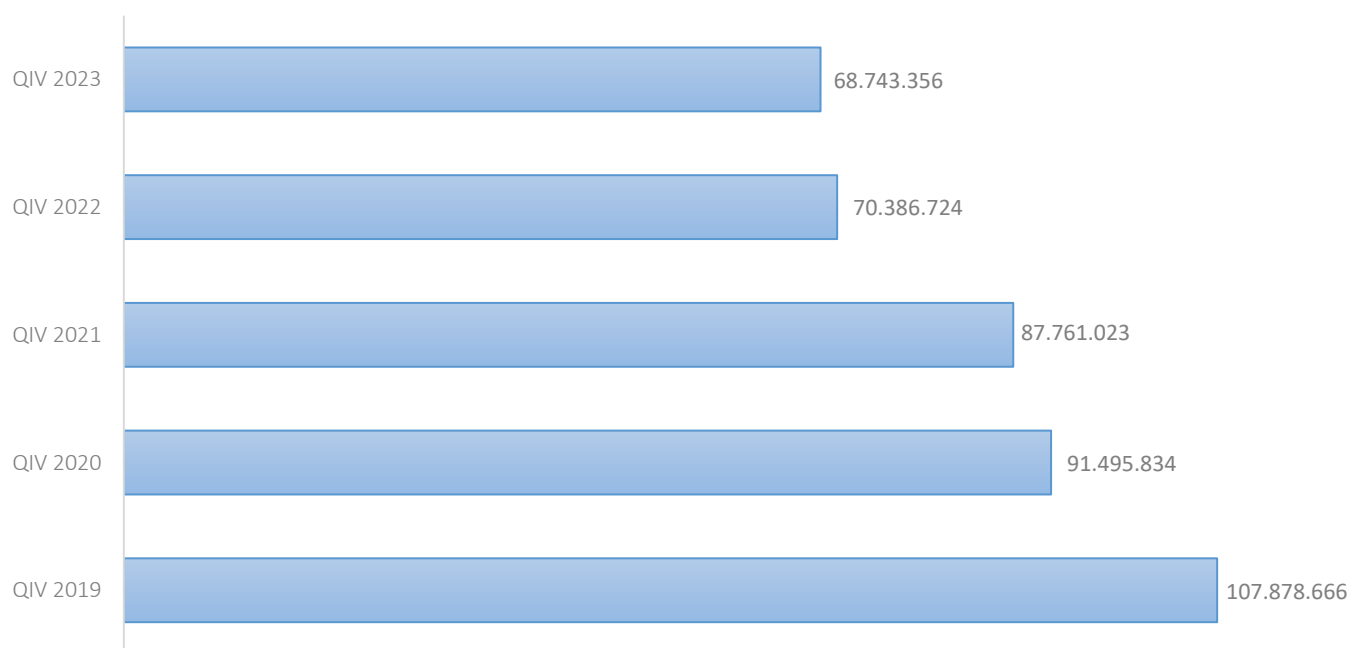
Grafikon 2.2 Odlazni saobraćaj mobilne telefonije (u minutama)

Graph 2.2 Outgoing traffic of mobile operators (in minutes)



Grafikon 2.3 Broj poslatih SMS poruka

Graph 2.3 SMS sent



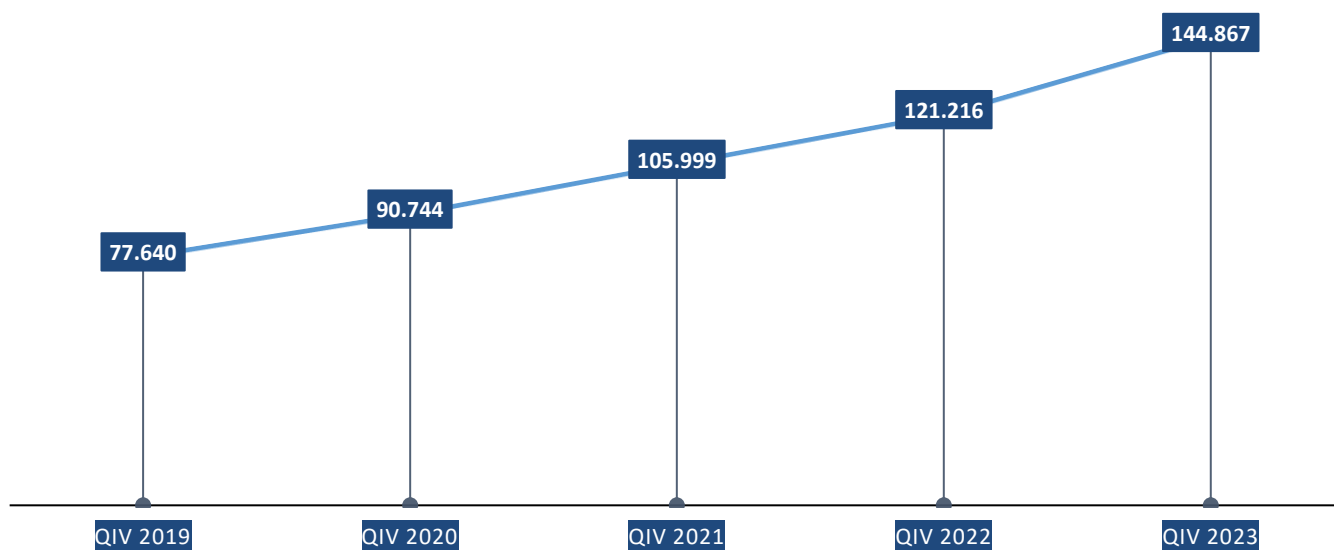
Grafikon 2.4 Broj poslatih MMS poruka

Graph 2.4 MMS sent



Grafikon 2.5 Ukupan broj prenesenih brojeva

Graph 2.5 The total number of transferred numbers



3. PRISTUP INTERNETU

Tabela 3 Pristup internetu

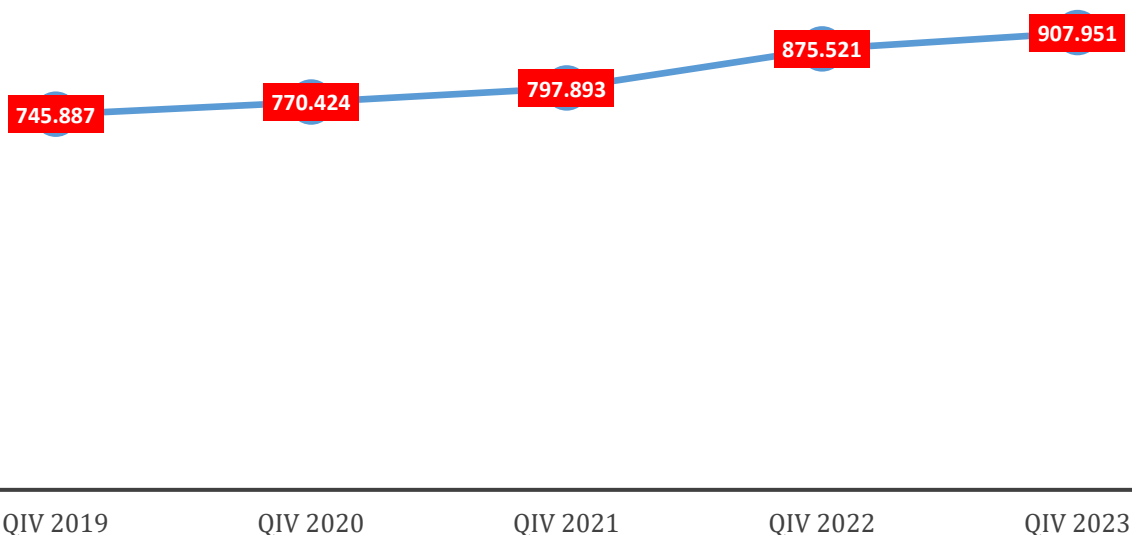
Table 3 Internet access

	IV Kvartal quarter	IV Kvartal quarter	III Kvartal quarter	IV Kvartal quarter	IV 2023 III 2023	IV 2023 IV 2022	
	2021	2022	2023	2023	Indeksi/Indices		
Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže	797 893	875 521	900 617	907 951	100,8	103,7	Total number of broadband subscribers
Broj xDSL priključaka	416 028	466 698	455 103	455 381	100,1	97,6	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	265 411	271 023	270 666	270 869	100,1	99,9	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	55 658	63 068	64 629	65 331	101,1	103,6	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	2 167	2 302	2 072	2 096	101,2	91,1	Number of subscribers via leased lines
Broj priključaka FTTx	58 604	72 407	108 124	114 251	105,7	157,8	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	16	16	16	16	100,0	100,0	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	97,61%	110,90%	114,65%	115,65%	100,9	104,3	Penetration rate of Internet users via the fixed network

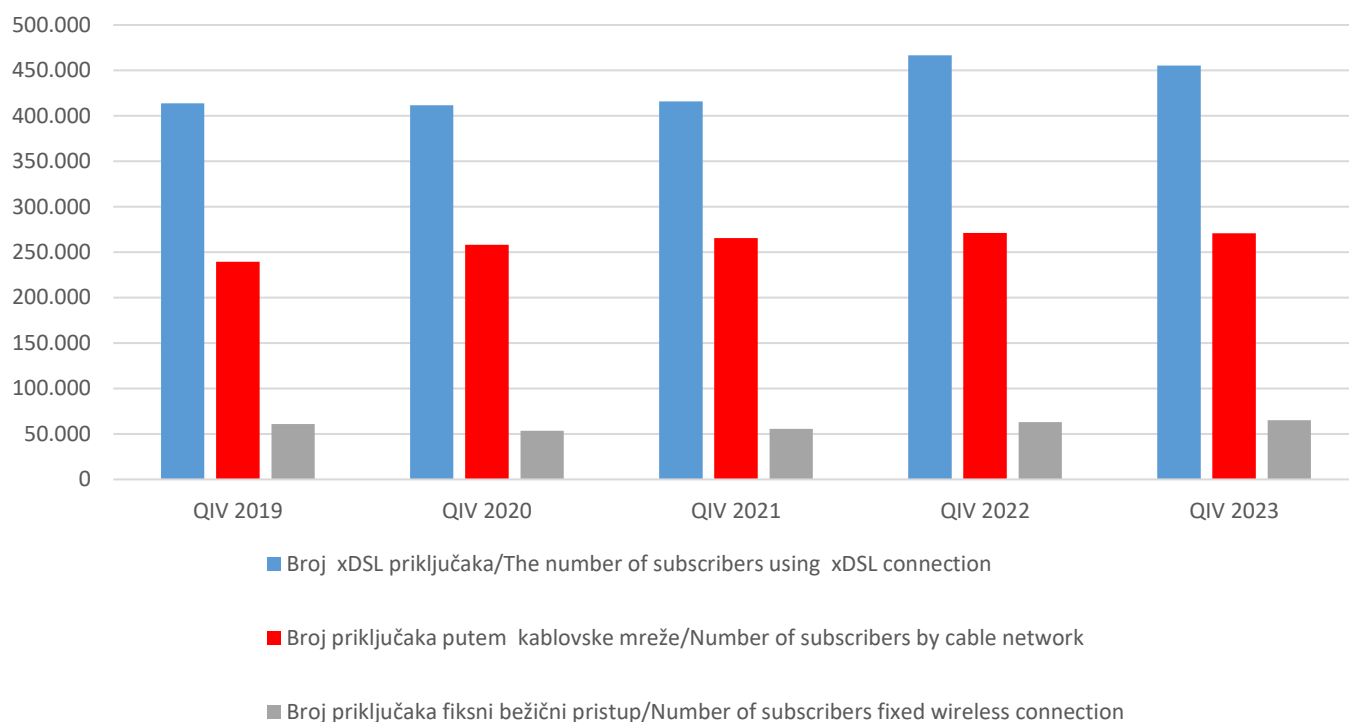
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 3.1 Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže

Graph 3.1 Total number of broadband access connections via the fixed network



Grafikon 3.2 Tip priključaka pristupa internetu putem fiksne mreže
Graph 3.2 Type connectors of Internet access connections via the fixed network



METODOLOŠKA OBJAŠNENJA

Izvor prikupljanja podataka

Podaci o telekomunikacionim uslugama preuzeti su od Regulatorne agencije za komunikacije Bosne i Hercegovine (RAK BiH)

Obuhvat

Telekomunikacione usluge obuhvataju saobraćaj ostvaren u fiksnoj i mobilnoj mreži

Unutrašnji saobraćaj u fiksnoj ili mobilnoj mreži obuhvata ukupno ostvaren saobraćaj unutar vlastite fiksne ili mobilne mreže prema drugim fiksnim i mobilnim mrežama

Međunarodni saobraćaj obuhvata ukupno ostvaren saobraćaj u fiksnim i mobilnim mrežama koji počinje unutar Bosne i Hercegovine i završava izvan Bosne i Hercegovine

DEFINICIJE

Telekomunikaciona usluga je usluga prijenosa, odašiljanja ili primanja znakova, signala, pisanog teksta, slika, govora i zvukova ili saopštenja bilo koje prirode koja se pruža žičnim, svjetlosnim, bežičnim ili drugim elektromagnetskim sistemima uključujući omogućavanje upotrebe tih sistema kao cjeline ili djelomično davanjem u najam, prodajom ili na neki drugi način

Priključak je fizička mrežna priključna tačka preko koje korisnik pristupa javnoj komunikacionoj mreži, a uključuje sve tehničke načine pristupa, kao što su PSTN, ISDN, xDSL i sl

Preneseni brojevi su telefonski brojevi koji su preneseni u druge mreže

FTTx je pristup širokopojasnim internet uslugama realizovan putem optičkog vlakna

xDSL (Digitalna Pretplatnička Linija) je širokopojasni pristup internet uslugama realizovan putem upredene bakarne parice. Tu spadaju širokopojasne tehnologije kao što su ADSL, VDSL, HDSL, SDSL, itd

Utrošene minute u fiksnoj i mobilnoj mreži obuhvataju ukupni saobraćaj ostvaren u unutrašnjem i međunarodnom saobraćaju izražen u jedinici vremena – minutama

Fiksna mreža je telekomunikaciona mreža kod koje je međusobna povezanost svih elemenata ostvarena žično

Mobilna mreža je telekomunikaciona mreža kod koje je međusobna povezanost nekih elemenata ostvarena bežično i time se omogućava uspostavljanje veza i u uslovima fizičkoga kretanja korisnika usluga te mreže

SMS poruke (Short Message Service) su kratke tekstualne poruke

NOTES OF METHODOLOGY

Sources of data collection

Data on telecommunication services were picked up from Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Coverage

Telecommunication services include traffic realized in fixed and mobile telephone network

The domestic traffic in fixed and mobile network includes the total traffic realized in the own fixed and mobile network, the traffic directed to other fixed and mobile networks

The international traffic includes the total traffic realized in the fixed and mobile network that starts within and ends outside the Bosnia and Herzegovina

DEFINITIONS

Telecommunication service is a service of transfer, transmission or reception of signs, written text, pictures, speech, sounds or releasing of any kind rendered through wire, light, wireless or other electromagnetic systems, including the possibility of using those systems either as a whole or in part, through renting, sale or some other way

Connection is a physical network connection point through which users access to a public communications network, and includes all the technical means of access such as PSTN, ISDN, xDSL, etc

Ported numbers are phone numbers that have been transferred to other networks

FTTx has access to broadband internet services realized through optical fibers

xDSL (Digital Subscriber Line) is a broadband internet services realized via twisted copper pairs. These include broadband technologies such as ADSL, VDSL, HDSL, SDSL, etc

Minutes spent in the fixed and mobile telephone network include the total traffic realized in the domestic and international traffic and measured by time units – minutes

Fixed network is telecommunication network in which all elements are connected by using wires

Mobile network is a telecommunication network in which some elements are not connected by using wires. In that way, a connection is possible even when users are physically moving

SMS messages (Short Message Service) are short text messages

MMS poruke (Multimedia Messaging Service) su poruke koje uključuju i multimedijalne sadržaje (npr slike, muzika)

MMS messages (Multimedia Messaging Service) are messages which include multimedia services (pictures, music)

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