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GODINA/ YEAR VIII

SARAJEVO, 20.09. 2023.

BROJ/ NUMBER 2

INFORMACIONO DRUŠTVO

INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, drugi kvartal 2023

ELECTRONIC COMMUNICATIONS, second quarter 2023

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera u drugom kvartalu 2023. godine iznosio je 490 874 što predstavlja pad od 6,6% u odnosu na drugi kvartal 2022. godine.

Total number of fixed telephone lines of dominant operators in the second quarter 2023 was 490 874 which represents a decrease of 6.6% compared to the second quarter 2022.

Ukupni odlazni saobraćaj fiksne telefonske mreže u drugom kvartalu 2023. godine iznosio je 247 473 162 minuta, što pokazuje pad od 13,8% u odnosu na drugi kvartal 2022. godine.

The total traffic of fixed telephone network in the second quarter 2023 was 247 473 162 minutes which shows a decrease of 13.8% compared to the second quarter 2022.

Broj korisnika mobilne mreže u drugom kvartalu 2023. godine iznosio je 3 711 819 i bilježi rast od 4,1% u odnosu na drugi kvartal 2022. godine. Ukupni odlazni saobraćaj mobilne mreže u drugom kvartalu 2023. godine iznosio je 669 536 239 minuta, što pokazuje rast od 0,4% u odnosu na drugi kvartal 2022. godine.

Number of mobile phone users in the second quarter 2023 was 3 711 819 which shows an increase of 4.1% compared to the second quarter 2022. The total traffic of mobile telephone network in the second quarter of 2023 was 669 536 239 minutes, which shows an increase of 0.4% compared to the second quarter of 2022.

Broj poslanih SMS poruka u drugom kvartalu 2023. godine manji je za 11,6%, broj poslanih MMS poruka manji je za 9,0% u odnosu na drugi kvartal 2022. godine.

Number of SMS messages sent in the second quarter 2023 decreased by 11.6%, while the number of MMS messages sent decreased by 9.0%, compared to the second quarter 2022.

Ukupan broj internet priključaka putem fiksne mreže u drugom kvartalu 2023. godine iznosio je 875 189 i bilježi rast od 6,7% u odnosu na drugi kvartal 2022. godine.

The total number of Internet connections via the fixed network in the second quarter of 2023 was 875 189 which shows an increase of 6.7% compared to the second quarter 2022.

1. FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	II	II	I	II	II 2023	II 2023	
	Kvartal	Kvartal	Kvartal	Kvartal	II 2023	I 2023	
	2021.	2022.	2023.	2023.	Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera	554.173	525.747	499.575	490.874	93,4	98,3	Total number of fixed telephone lines of dominant operators
Broj novih operatera fiksne telefonije	14	14	12	12	85,7	100,0	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	145.203	146.195	142.806	143.270	98,0	100,3	The total number of own subscribers to new operators
Ukupan broj pretplatnika novih operatera sa indirektnim pristupom	179	195	174	157	80,5	90,2	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	96.450	104.052	106.618	107.266	103,1	100,6	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

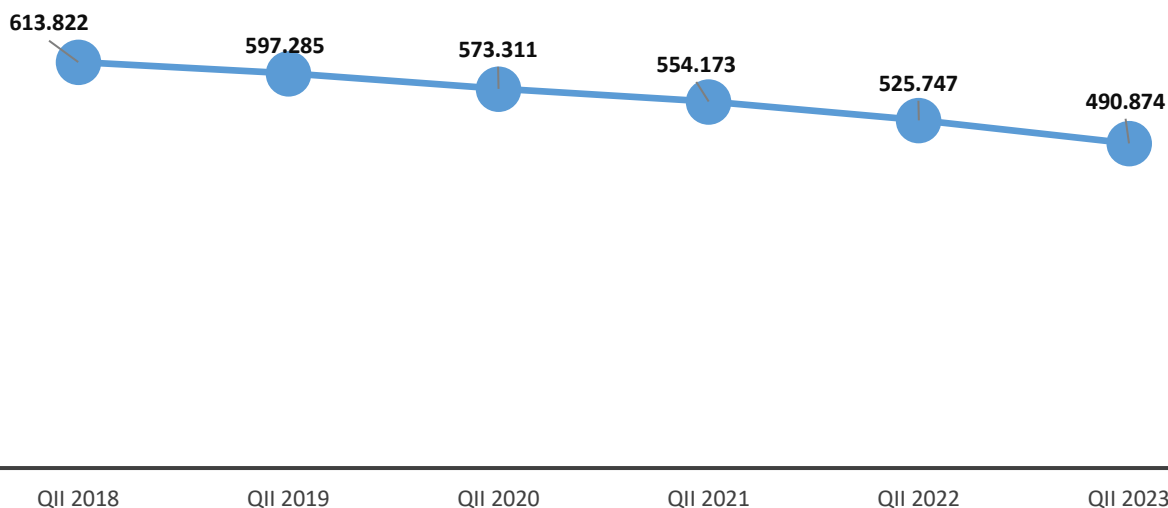


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije

Table 1.2 Outgoing traffic fixed - line operator

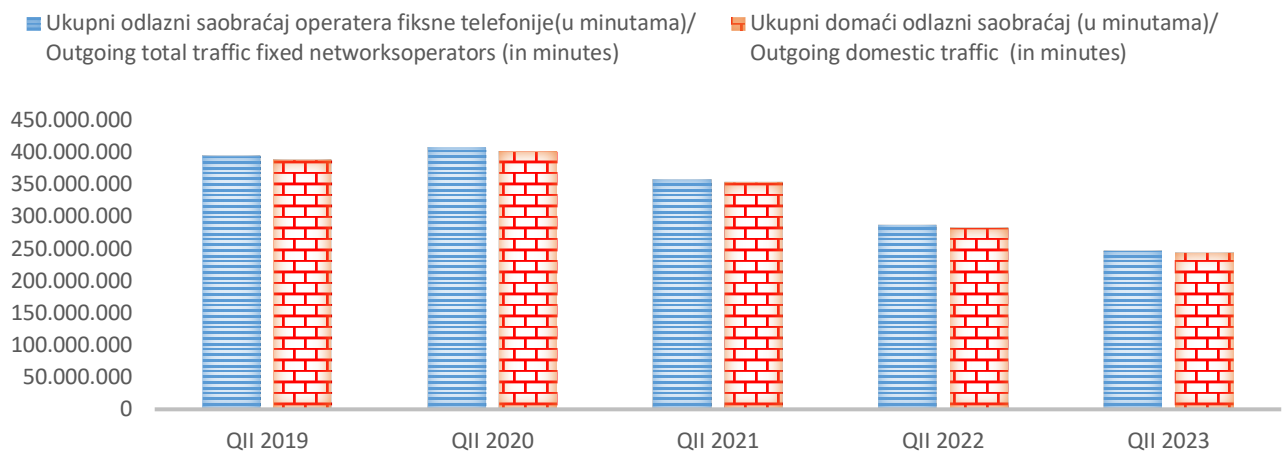
Odlazni saobraćaj operatera u minutama	II Kvartal/ quarter	II Kvartal/ quarter	II Kvartal/ quarter	I Kvartal/ quarter	II Kvartal/ quarter	Outgoing traffic operators in minutes
	2020.	2021.	2022.	2023.	2023.	
Ukupno odlazni saobraćaj operatera fiksne telefonije	408 637 516	358 941 629	287 232 596	263 027 641	247 473 162	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	402 713 893	354 151 709	283 626 329	259 995 234	244 624 636	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	5 923 623	4 789 920	3 606 267	3 032 407	2 848 526	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	II 2023 II 2021	II 2023 II 2022	II 2023 I 2023	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	68,9	86,2	
Ukupni domaći odlazni saobraćaj	69,1	86,2	94,1	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	59,5	79,0	93,9	International outgoing fixed telephone traffic

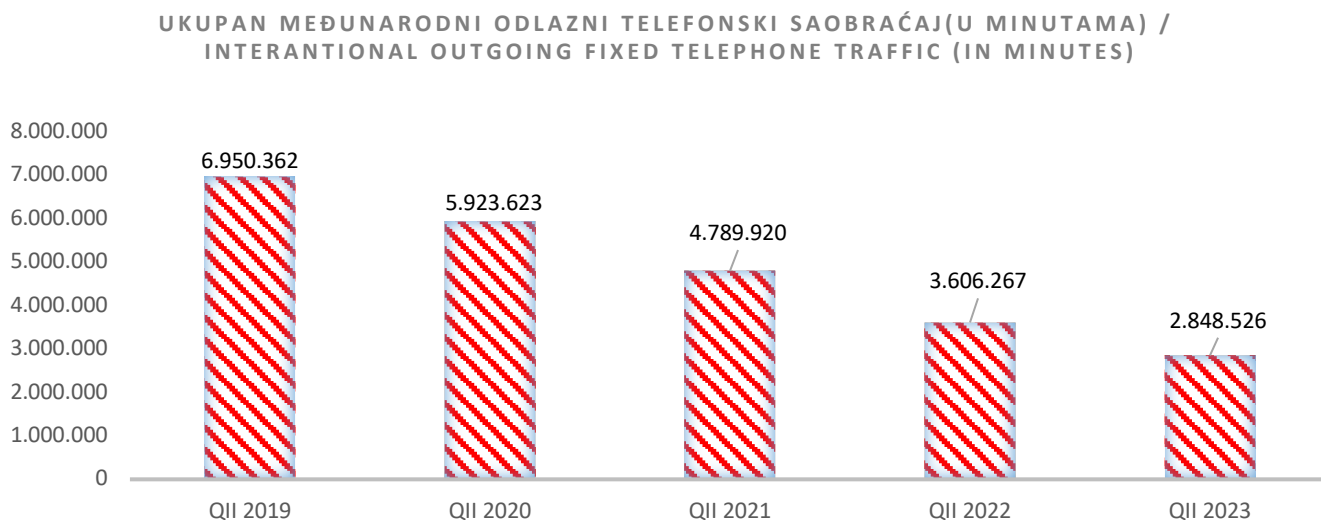
Grafikon 1.2. Saobraćaj ostvaren putem fiksne telefonske mreže

Graph 1.2 Traffic accomplished via fixed telephone network



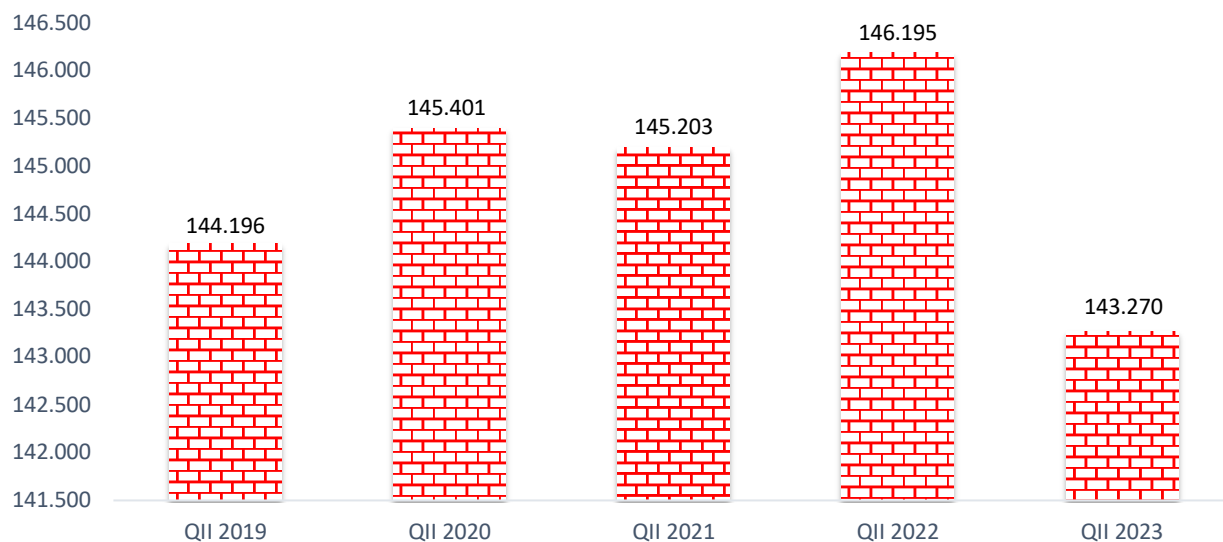
Grafikon 1.2.1 Saobraćaj ostvaren putem fiksne telefonske mreže

Graph 1.2 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



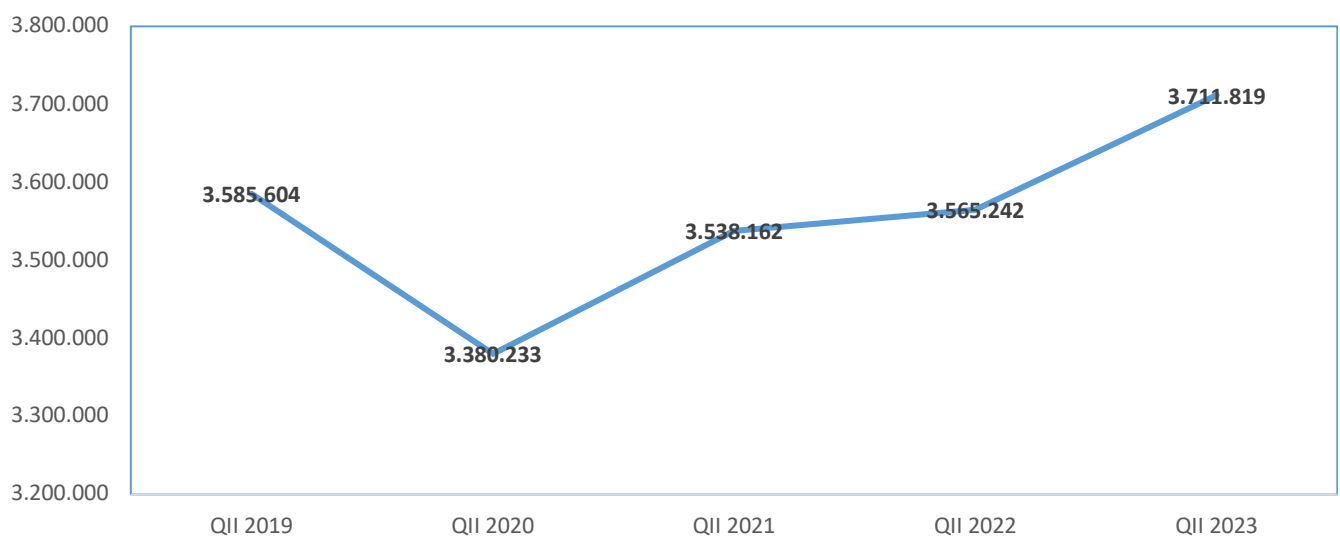
2. MOBILNA TELEFONSKA MREŽA

Tabela 2. Mobilna telefonska mreža
Table 2. Mobile telephone network

	II Kvartal quarter 2021.	II Kvartal quarter 2022.	I Kvartal quarter 2023.	II Kvartal quarter 2023.	II 2023 II 2022	II 2023 I 2023	
					Indeksi/Indicies		
Ukupan broj korisnika mobilne mreže	3 538 162	3 565 242	3 589 802	3 711 819	104,1	103,4	Total number of mobile network users
Penetracija mobilne telefonije	101,35%	102,60%	103,96%	107,50%	104,8	103,4	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	98 545	112 829	125 172	129 415	114,7	103,4	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	670 770 964	667 012 948	606 490 054	669 536 239	100,4	110,4	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	87 512 930	84 414 941	71 380 939	74 586 841	88,4	104,5	SMS sent
Broj poslatih MMS poruka	453 538	383 772	293 638	349 063	91,0	118,9	MMS sent

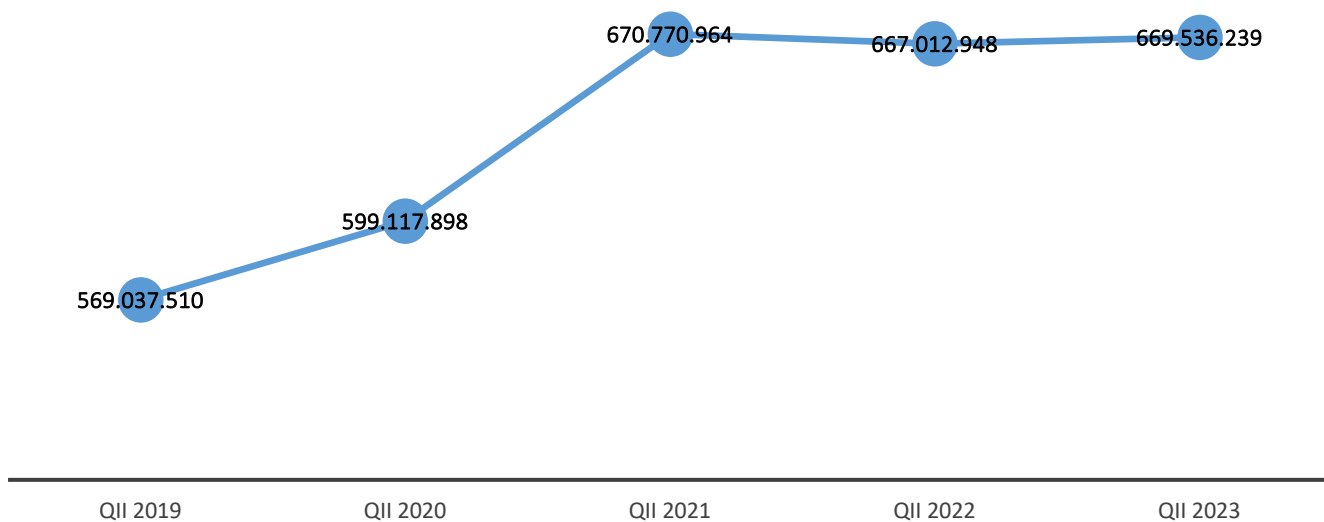
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

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



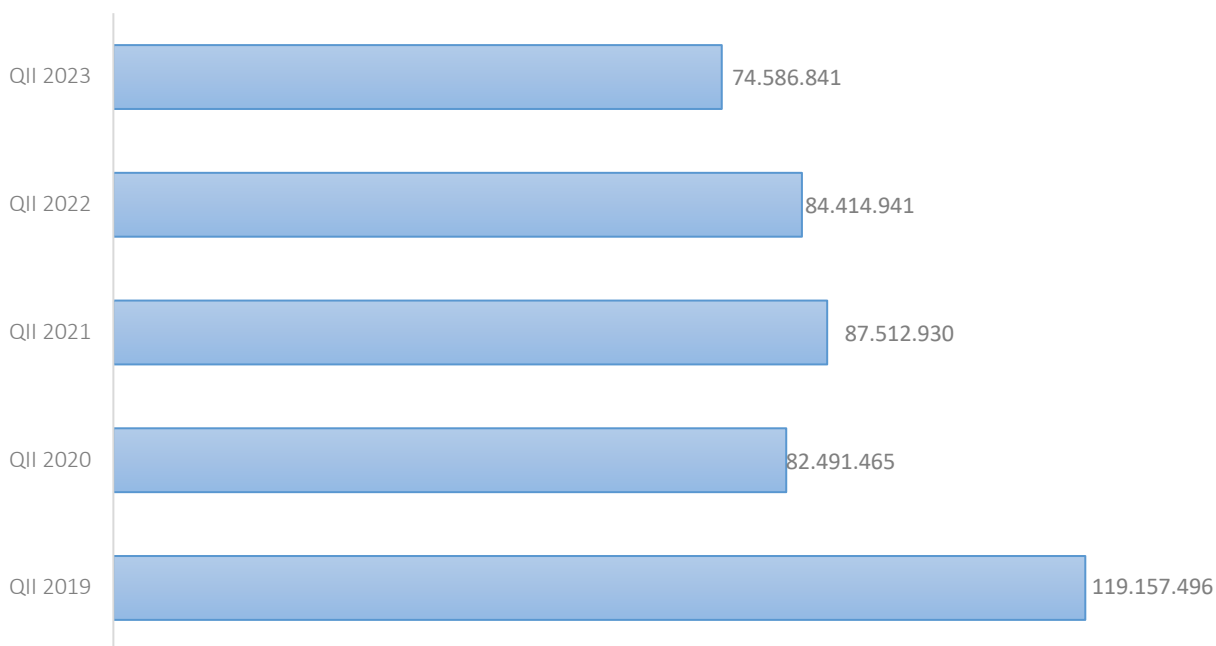
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama).

Graph.2.2 Outgoing traffic of mobile operators (in minutes).



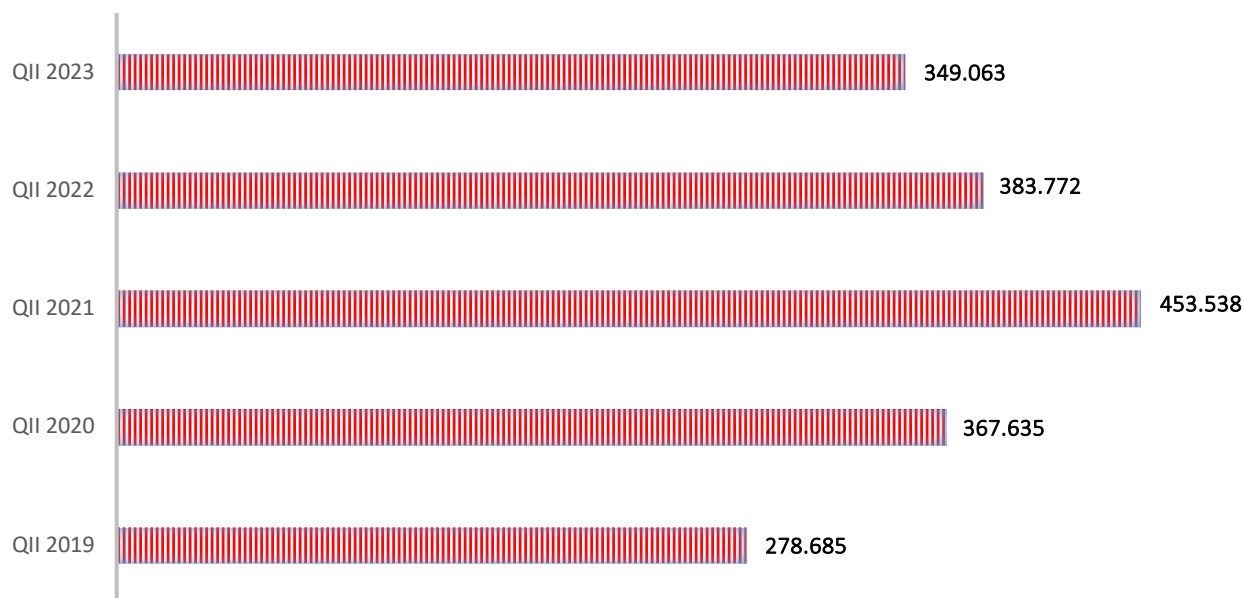
Grafikon 2.3. Broj poslatih SMS poruka

Graph 2.3 SMS sent



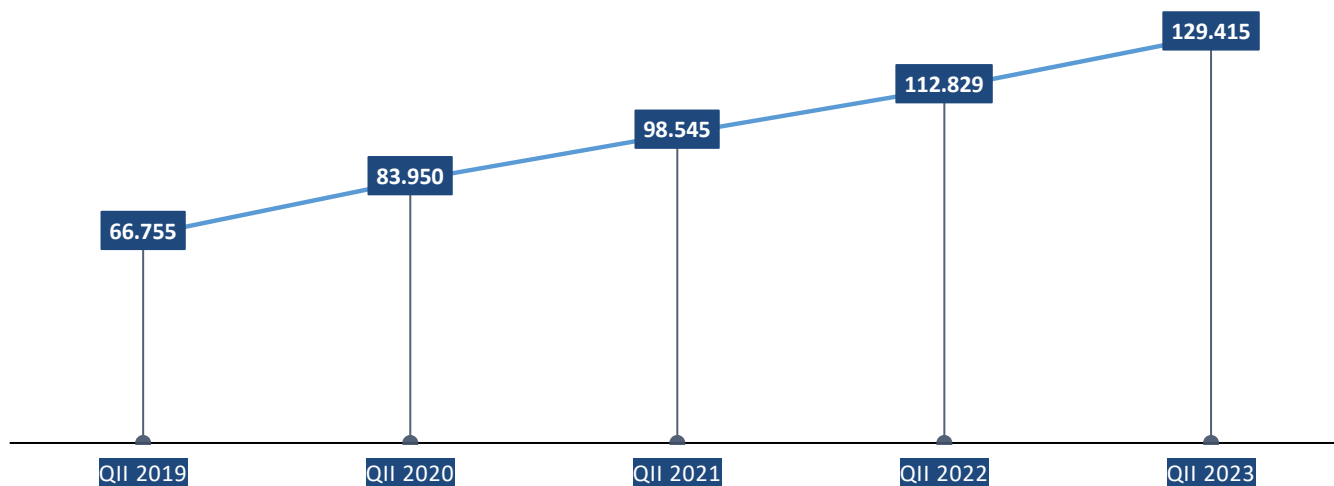
Grafikon 2.4. Broj poslatih MMS poruka

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

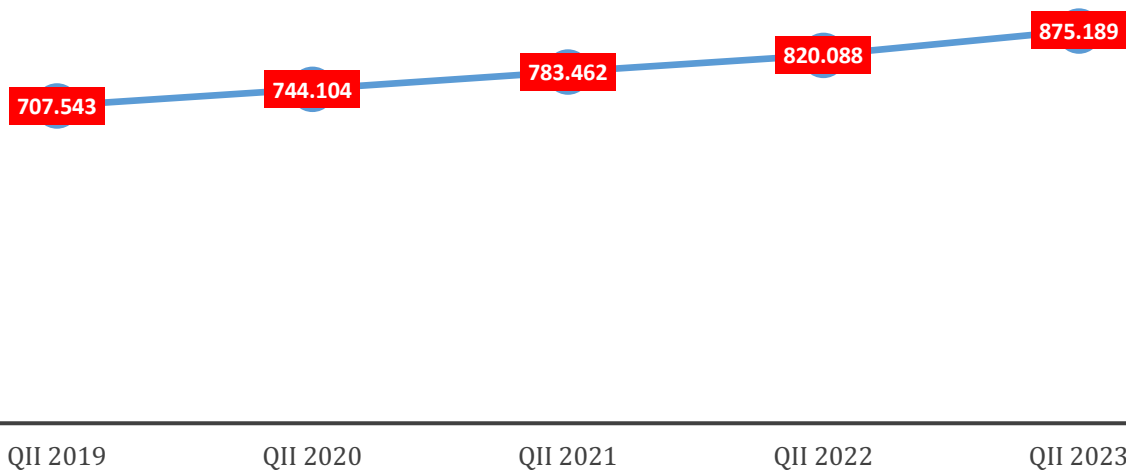
Table 3 Internet access

	II Kvartal quarter	II Kvartal quarter	I Kvartal quarter	II Kvartal quarter	II 2023 II 2022	II 2023 I 2023	
	2021.	2022.	2023.	2023.	Indeksi/Indicies		
Ukupan broj priključaka širokopojsnog pristupa internetu putem fiksne mreže	783 462	820 088	876 845	875 189	106,7	99,8	Total number of broadband subscribers
Broj xDSL priključaka	415 726	421 021	449 070	447 438	106,3	99,6	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	261 596	268 740	269 010	269 269	100,2	100,1	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	53 393	62 389	62 349	63 027	99,9	101,1	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1 698	2 228	2 278	2 075	93,1	91,1	Number of subscribers via leased lines
Broj priključaka FTTx	49.985	64 980	94 116	103 357	159,1	109,8	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	304	16	15	16	100,0	106,7	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	96,09%	100,57%	116,11%	112,14%	111,5	96,6	Penetration rate of Internet users via the fixed network

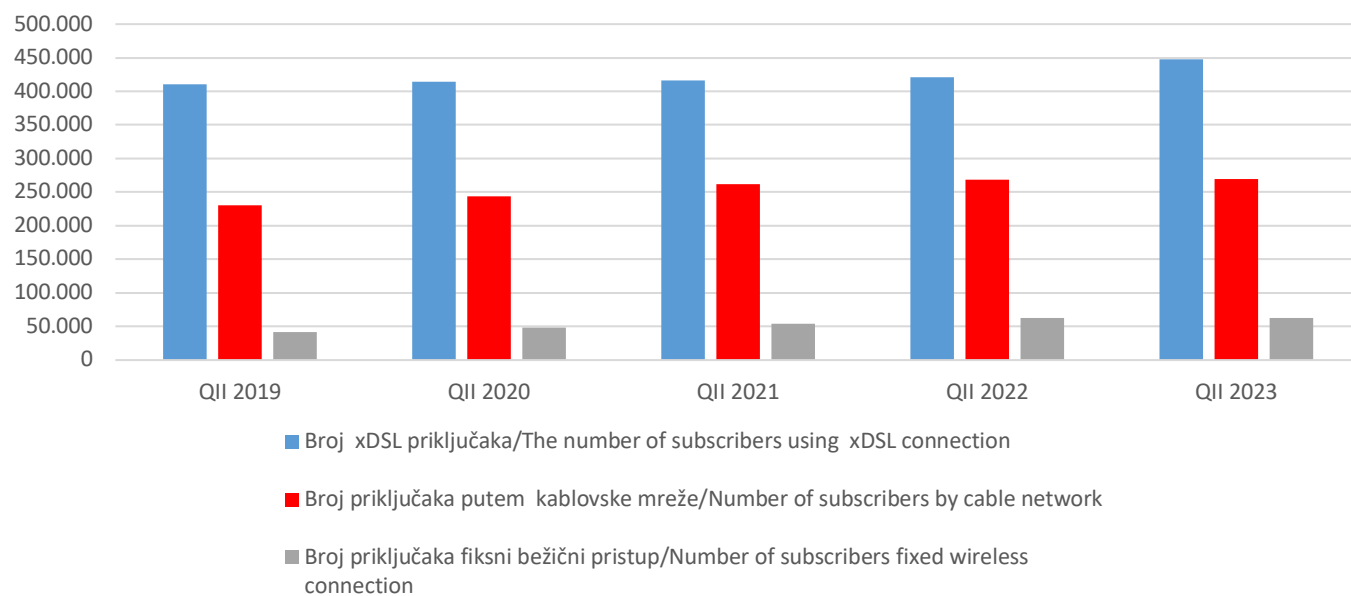
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 3.1 Ukupan broj priključaka širokopojsnog 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).

Publikuje Agencija za statistiku Bosne i Hercegovine, 71000 Sarajevo, Zelenih beretki 26
Published by the Agency for Statistics of the Bosnia and Herzegovina, 71000 Sarajevo, Zelenih beretki 26

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