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GODINA/ YEAR VII

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INFORMACIONO DRUŠTVO

INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, drugi kvartal 2022.

ELECTRONIC COMMUNICATIONS, second quarter 2022

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u drugom kvartalu 2022. godine iznosio je 525 747 što predstavlja pad od 5,1% u odnosu na drugi kvartal 2021. godine.

Total number of fixed telephone lines of dominant operators in the second quarter 2022 was 525 747 which represents a decrease of 5.1% compared to the second quarter 2021.

Ukupni odlazni saobraćaj fiksne telefonske mreže u drugom kvartalu 2022. godine iznosio je 287 232 596 minuta, što pokazuje pad od 20,0% u odnosu na drugi kvartal 2021. godine.

The total traffic of fixed telephone network in the second quarter 2022 was 287 232 596 minutes which shows a decrease of 20.0% compared to the second quarter 2021.

Broj korisnika mobilne mreže u drugom kvartalu 2022. godine iznosio je 3 565 242 i bilježi rast od 0,8% u odnosu na drugi kvartal 2021. godine. Ukupni odlazni saobraćaj mobilne mreže u drugom kvartalu 2022. godine iznosio je 667 012 948 minuta, što pokazuje pad od 0,6% u odnosu na drugi kvartal 2021. godine.

Number of mobile phone users in the second quarter 2022 was 3 565 242 which shows an increase of 0.8% compared to the second quarter 2021. The total traffic of mobile telephone network in the second quarter of 2022 was 667 012 948 minutes which shows a decrease of 0.6% compared to the second quarter of 2021.

Broj poslanih SMS poruka u drugom kvartalu 2022. godine manji je za 3,5%, broj poslanih MMS poruka manji je za 15,4% u odnosu na drugi kvartal 2021. godine.

Number of SMS messages sent in the second quarter 2022 decreased by 3.5%, while the number of MMS messages sent decreased by 15.4%, compared to the second quarter 2021.

Ukupan broj internet priključaka putem fiksne mreže u drugom kvartalu 2022. godine iznosio 820 088 i bilježi rast od 4,7% u odnosu na drugi kvartal 2021. godine.

The total number of Internet connections via the fixed network in the second quarter of 2022 was 820 088 which shows an increase of 4.7% compared to the second quarter 2021.

1. FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	II Kvartal quarter	II Kvartal quarter	I Kvartal quarter	II Kvartal quarter	II 2022 II 2021	II 2022 I 2022	
	2020.	2021.	2022.	2022.	Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora	573.311	554.173	537.361	525.747	94,9	97,8	Total number of fixed telephone lines of dominant operators
Broj novih operatera fiksne telefonije	13	14	14	14	100,0	100,0	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	145.401	145.203	146.383	146.195	100,7	99,9	The total number of own subscribers to new operators
Ukupan broj pretplatnika novih operatora sa indirektnim pristupom	185	179	204	195	108,9	95,6	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	90.605	96.450	103.027	104.052	107,9	101,0	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 operatora

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

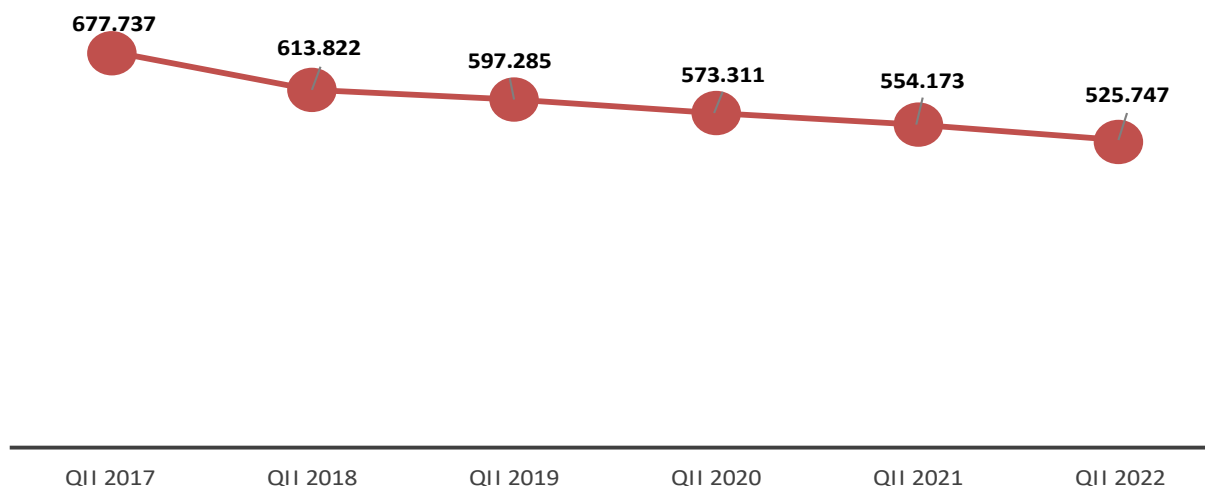


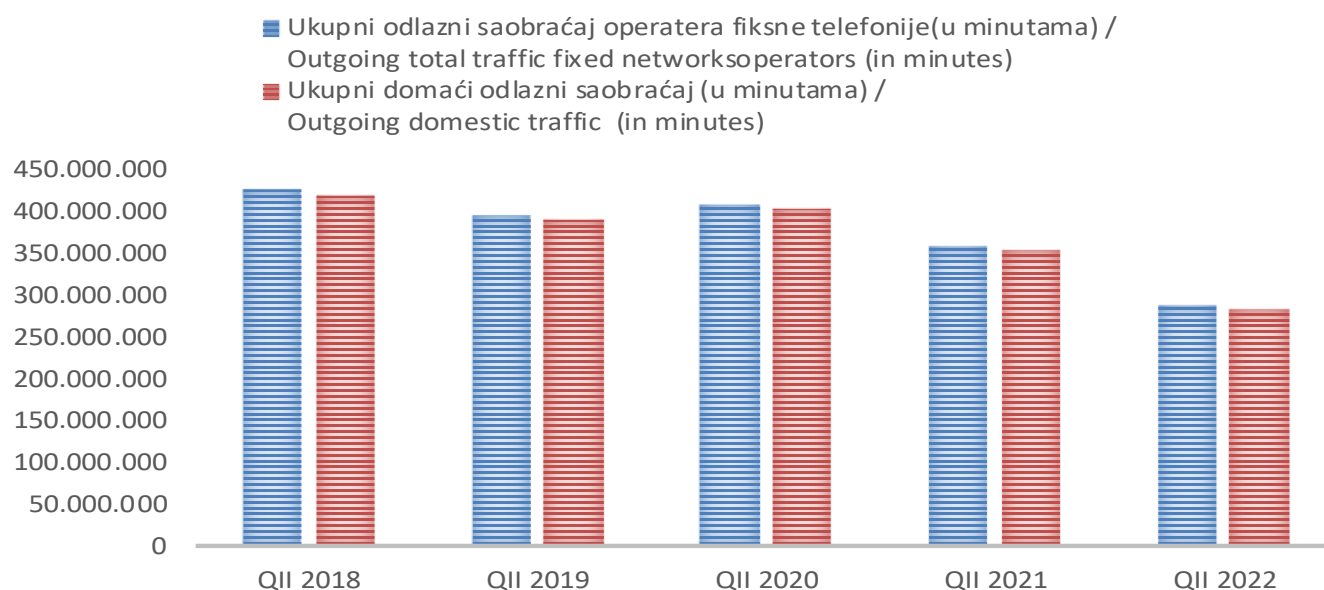
Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

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
	2019.	2020.	2021.	2022.	2022.	
Ukupno odlazni saobraćaj operatera fiksne telefonije	396.021.252	408.637.516	358.941.629	327.377.522	287.232.596	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	389.070.890	402.713.893	354.151.709	323.548.181	283.626.329	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	6.950.362	5.923.623	4.789.920	3.829.342	3.606.267	International outgoing fixed telephone traffic

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

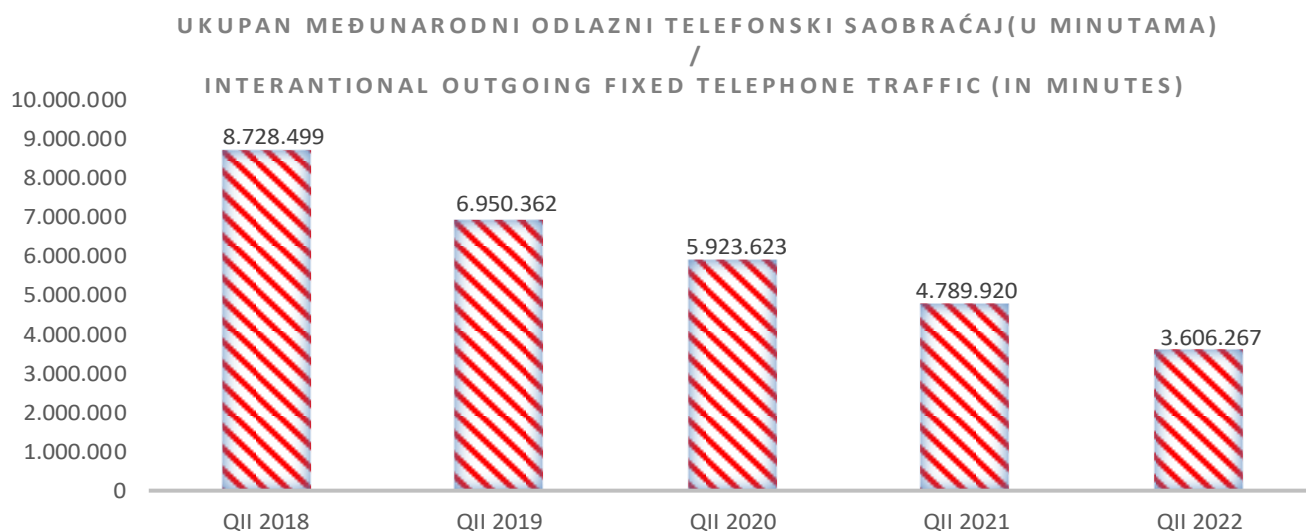
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	II 2022 II 2020	II 2022 II 2021	II 2022 I 2022	Indicies by indicators outgoing traffic fixed-line operator
Ukupno odlazni saobraćaj operatera fiksne telefonije	70,3	80,0	87,7	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	70,4	80,1	87,7	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	60,9	75,3	94,2	International outgoing fixed telephone traffic

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

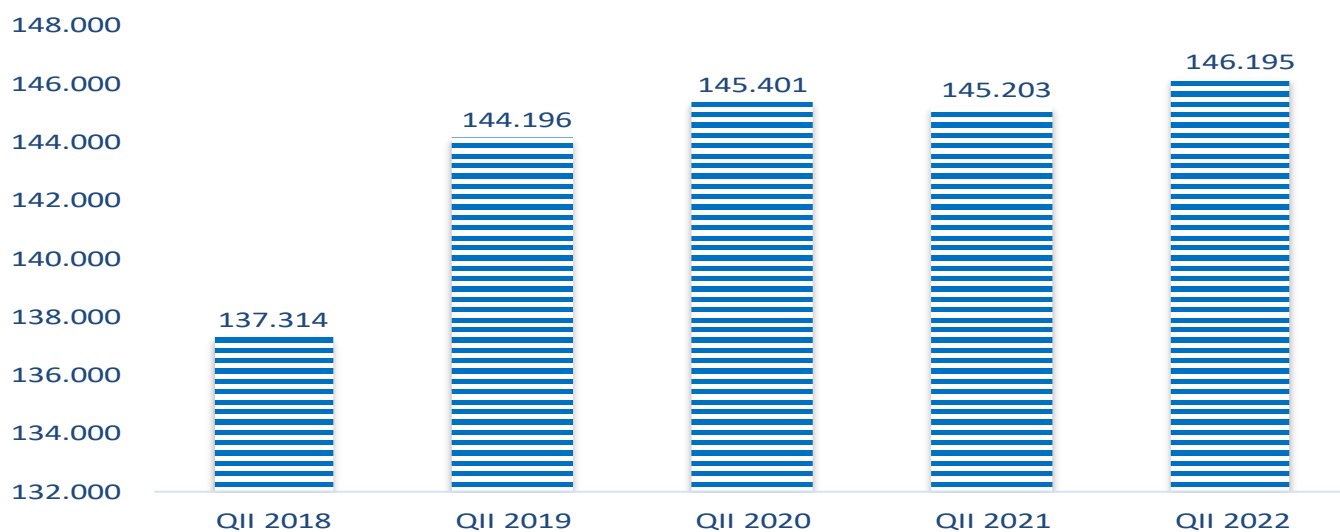
Grafikon 1.2.1 Saobraćaj ostvaren putem fiksne telefonske mreže

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



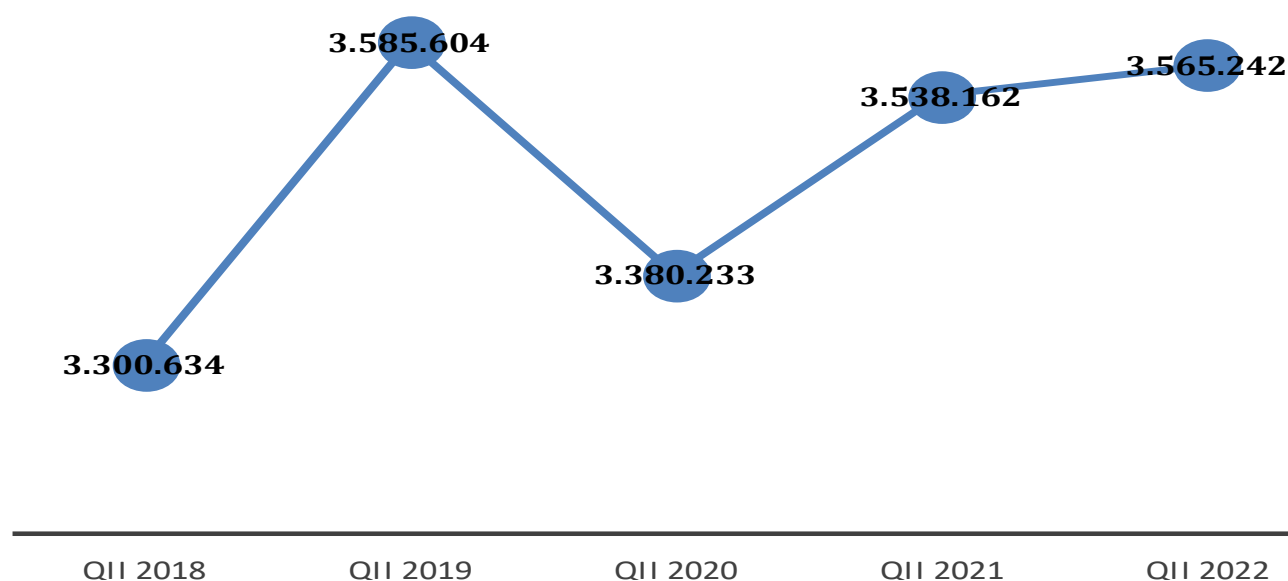
2. MOBILNA TELEFONSKA MREŽA

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

	II Kvartal <i>quarter</i> 2020.	II Kvartal <i>quarter</i> 2021.	I Kvartal <i>quarter</i> 2022.	II Kvartal <i>quarter</i> 2022.	II 2022 II 2021	II 2022 I 2022	
					Indeksi/ <i>Indicies</i>		
Ukupan broj korisnika mobilne mreže	3.380.233	3.538.162	3.592.967	3.565.242	100,8	99,2	<i>Total number of mobile network users</i>
Penetracija mobilne telefonije	95,73%	101,35%	103,39%	102,60%	101,2	99,2	<i>Penetration of mobile telephony</i>
Ukupan broj prenesenih brojeva	83.950	98.545	109.316	112.829	114,5	103,2	<i>The total number of transferred numbers</i>
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	599.117.898	670.770.964	634.962.172	667.012.948	99,4	105,0	<i>Total outgoing traffic of mobile operators (in minutes)</i>
Broj poslatih SMS poruka	82.491.465	87.512.930	76.998.790	84.414.941	96,5	109,6	<i>SMS sent</i>
Broj poslatih MMS poruka	367.635	453.538	308.745	383.772	84,6	124,3	<i>MMS sent</i>

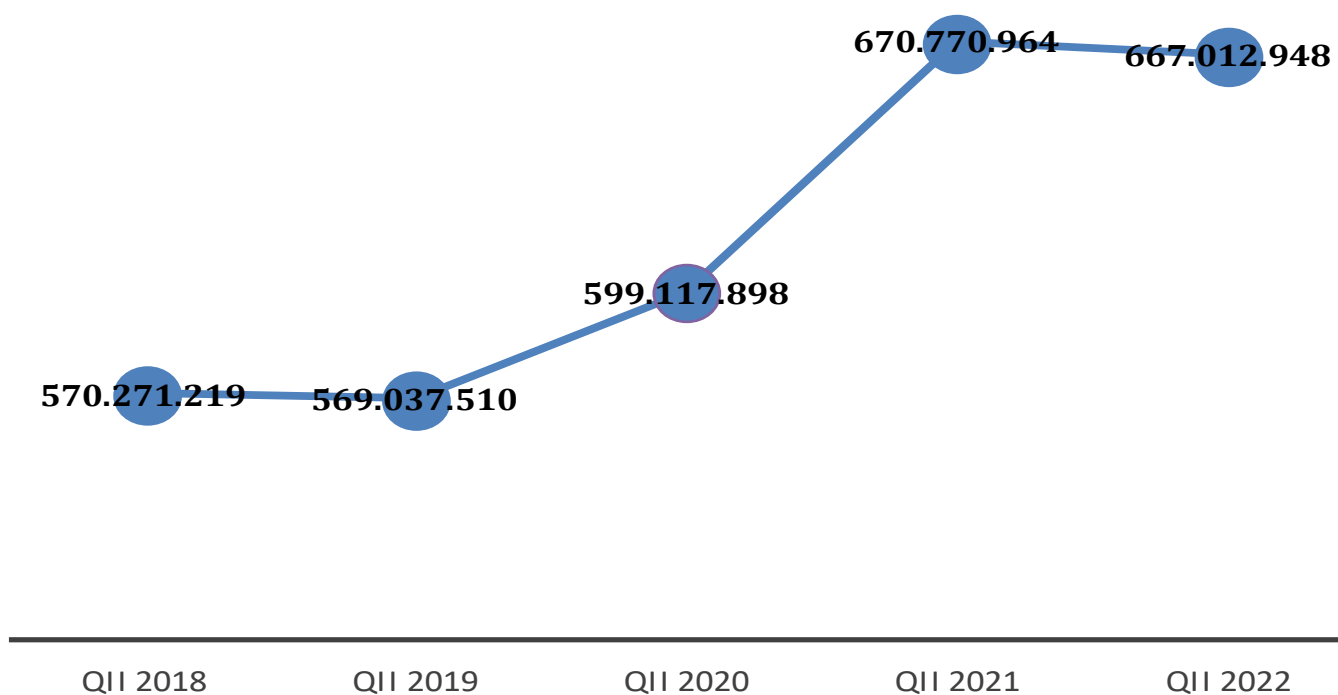
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

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



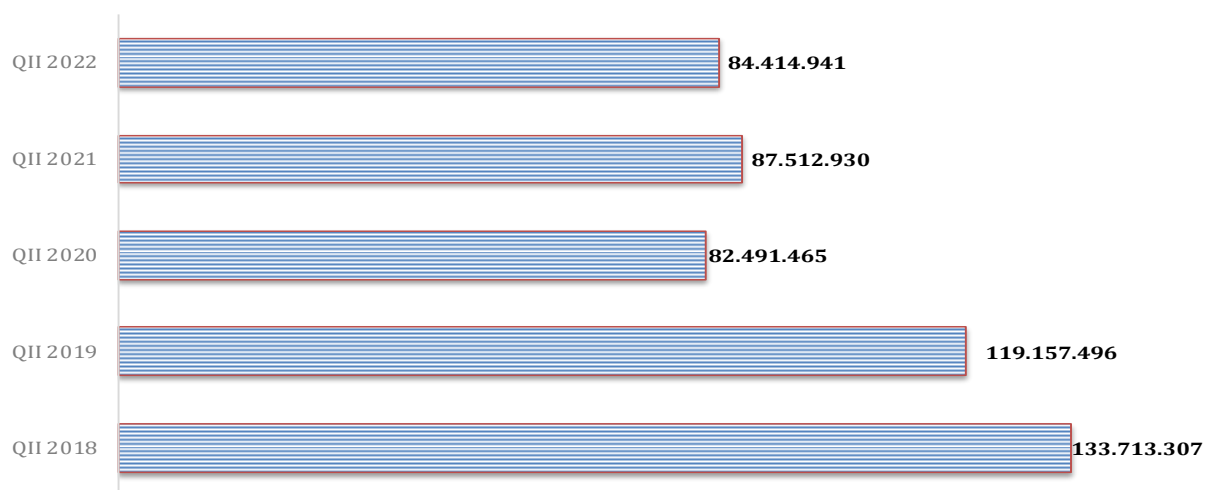
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama).

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



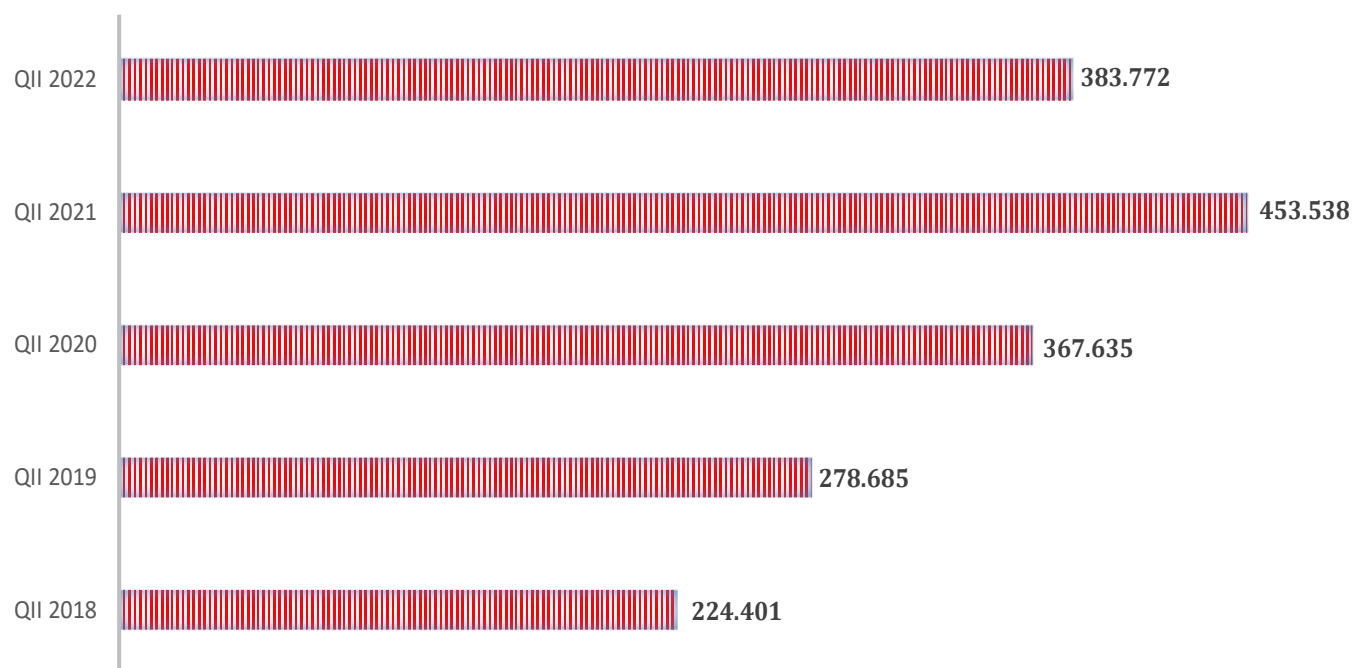
Grafikon 2.3. Broj poslatih SMS poruka

Graph 2.3 SMS sent



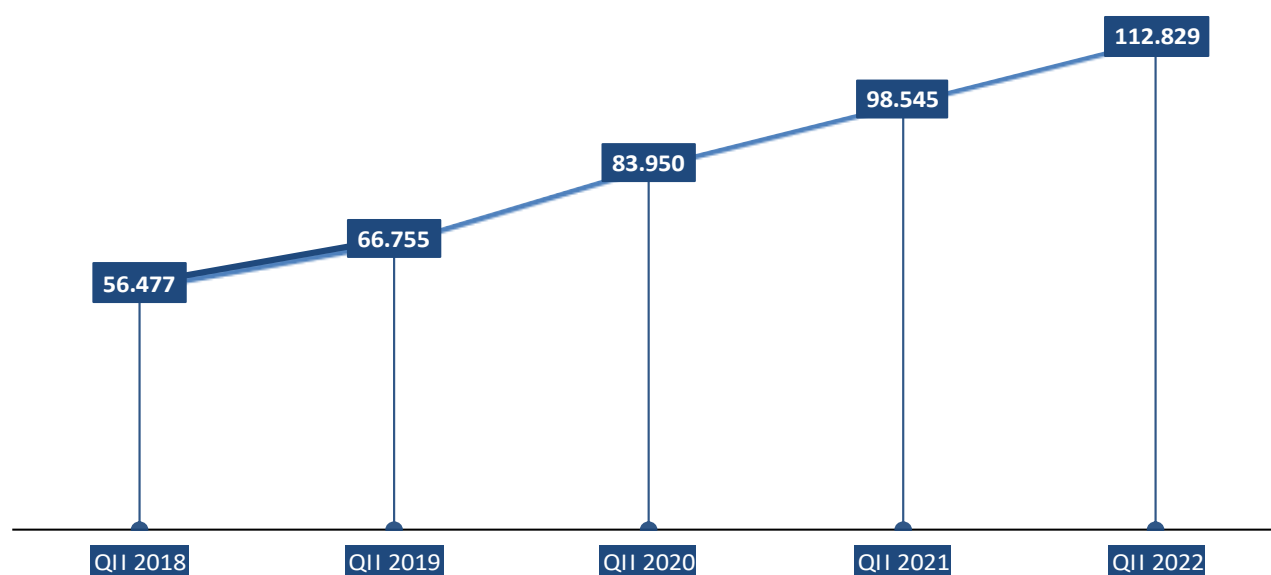
Grafikon 2.4. Broj poslatih MMS poruka

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

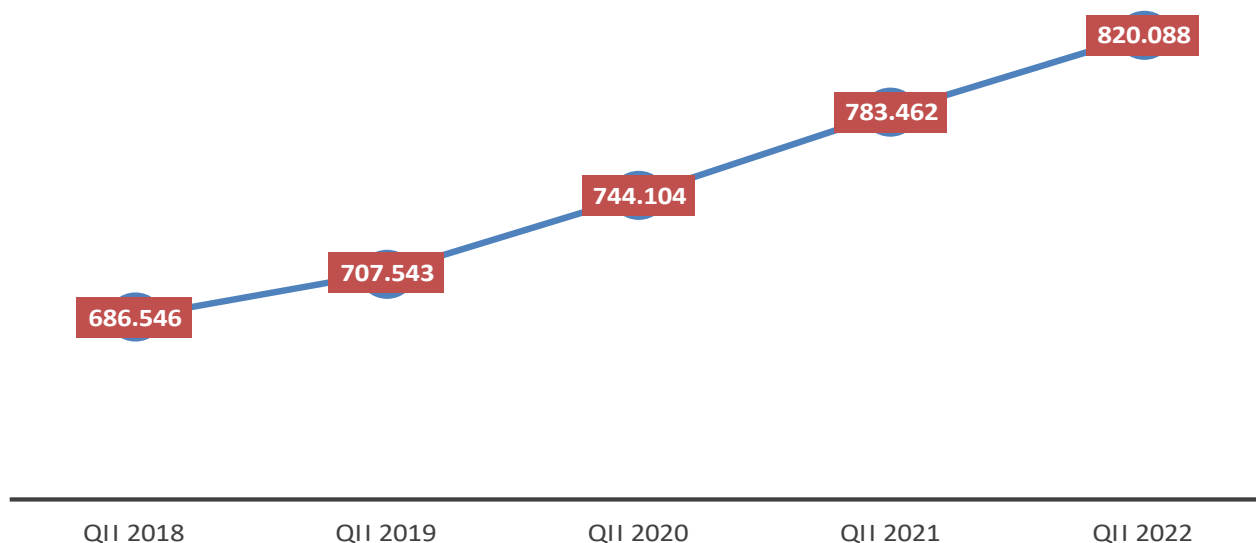
	II Kvartal quarter	II Kvartal quarter	I Kvartal quarter	II Kvartal quarter	II 2022 II 2021	II 2022 I 2021	
	2020.	2021.	2022.	2022.	Indeksi/Indices		
Ukupan broj priključaka širokopoasnog pristupa internetu putem fiksne mreže	744.104	783.462	811.118	820.088	104,7	101,1	<i>Total number of broadband subscribers</i>
Broj xDSL priključaka	413.977	415.726	419.418	421.021	101,3	100,4	<i>Number of subscribers using xDSL connection</i>
Broj priključaka putem kablovske mreže	243.368	261.596	265.534	268.740	102,7	101,2	<i>Number of subscribers by cable network</i>
Broj priključaka fiksni bežični pristup	52.369	53.393	55.658	62.389	116,5	101,1	<i>Number of subscribers fixed wireless connection</i>
Broj priključaka putem iznajmljene linije	1.721	1.698	2.177	2.228	131,2	102,3	<i>Number of subscribers via leased lines</i>
Broj priključaka FTTx	36.337	49.985	61.570	64.980	130,0	105,5	<i>Number of subscribers via FTTx connection</i>
Broj priključaka putem ostalih tehnologija	174	304	16	16	5,3	100,0	<i>Number of subscribers using other technologies</i>
Stopa penetracije korisnika interneta putem fiksne mreže	91,88%	96,09%	99,46%	100,57%	104,7	101,1	<i>Penetration rate of Internet users via the fixed network</i>

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

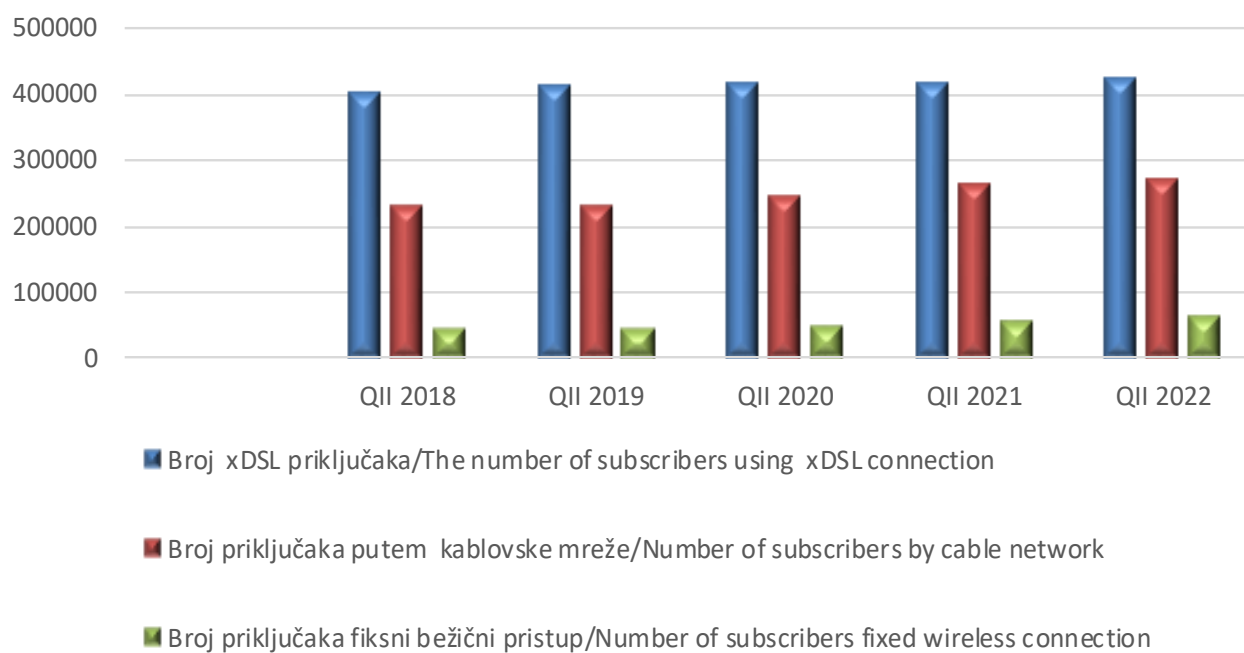
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 3.1 Ukupan broj priključaka širokopoasnog 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 OBJAŠNJENJA

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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