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INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, treći kvartal 2022.

ELECTRONIC COMMUNICATIONS, third quarter 2022

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera u trećem kvartalu 2022. godine iznosio je 518 446 što predstavlja pad od 5,5% u odnosu na treći kvartal 2021. godine.

Total number of fixed telephone lines of dominant operators in the third quarter 2022 was 518 446 which represents a decrease of 5.5% compared to the third quarter 2021.

Ukupni odlazni saobraćaj fiksne telefonske mreže u trećem kvartalu 2022. godine iznosio je 274 610 383 minuta, što pokazuje pad od 15,1% u odnosu na treći kvartal 2021. godine.

The total traffic of fixed telephone network in the third quarter 2022 was 274 610 383 minutes which shows a decrease of 15.1% compared to the third quarter 2021.

Broj korisnika mobilne mreže u trećem kvartalu 2022. godine iznosio je 3 918 190 i bilježi rast od 2,8% u odnosu na treći kvartal 2021. godine. Ukupni odlazni saobraćaj mobilne mreže u trećem kvartalu 2022. godine iznosio je 676 715 304 minuta, što pokazuje rast od 1,6% u odnosu na treći kvartal 2021. godine.

Number of mobile phone users in the third quarter 2022 was 3 918 190 which shows an increase of 2.8% compared to the third quarter 2021. The total traffic of mobile telephone network in the third quarter of 2022 was 676 715 304 minutes which shows an increase of 1.6% compared to the third quarter of 2021.

Broj poslanih SMS poruka u trećem kvartalu 2022. godine manji je za 16,4%, broj poslanih MMS poruka veći je za 1,2% u odnosu na treći kvartal 2021. godine.

Number of SMS messages sent in the third quarter 2022 decreased by 16.4%, while the number of MMS messages sent increased by 1.2%, compared to the third quarter 2021.

Ukupan broj internet priključaka putem fiksne mreže u trećem kvartalu 2022. godine iznosio 822 571 i bilježi rast od 4,0% u odnosu na treći kvartal 2021. godine.

The total number of Internet connections via the fixed network in the third quarter of 2022 was 822 571 which shows an increase of 4.0% compared to the third quarter 2021.

1. FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	III Kvartal quarter	III Kvartal quarter	II Kvartal quarter	III Kvartal quarter	III 2022 II 2022	III 2022 III 2021	
	2020.	2021.	2022.	2022.	Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera	566.421	548.521	525.747	518.446	98,6	94,5	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	144.132	145.560	146.195	145.586	99,6	100,0	The total number of own subscribers to new operators
Ukupan broj pretplatnika novih operatera sa indirektnim pristupom	986	242	195	186	95,4	76,9	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	91.851	98.013	104.052	104.912	100,8	107,0	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

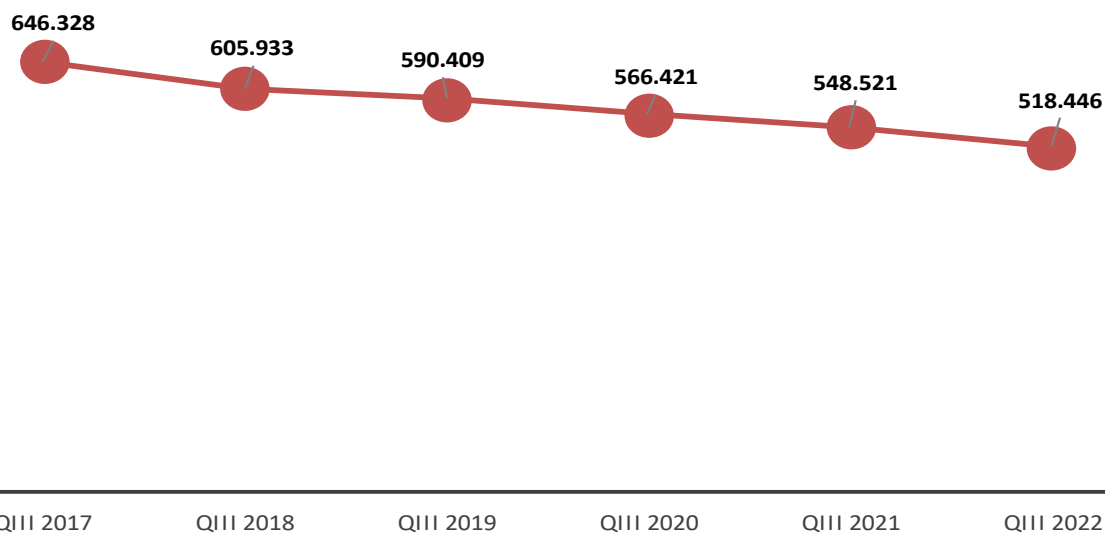
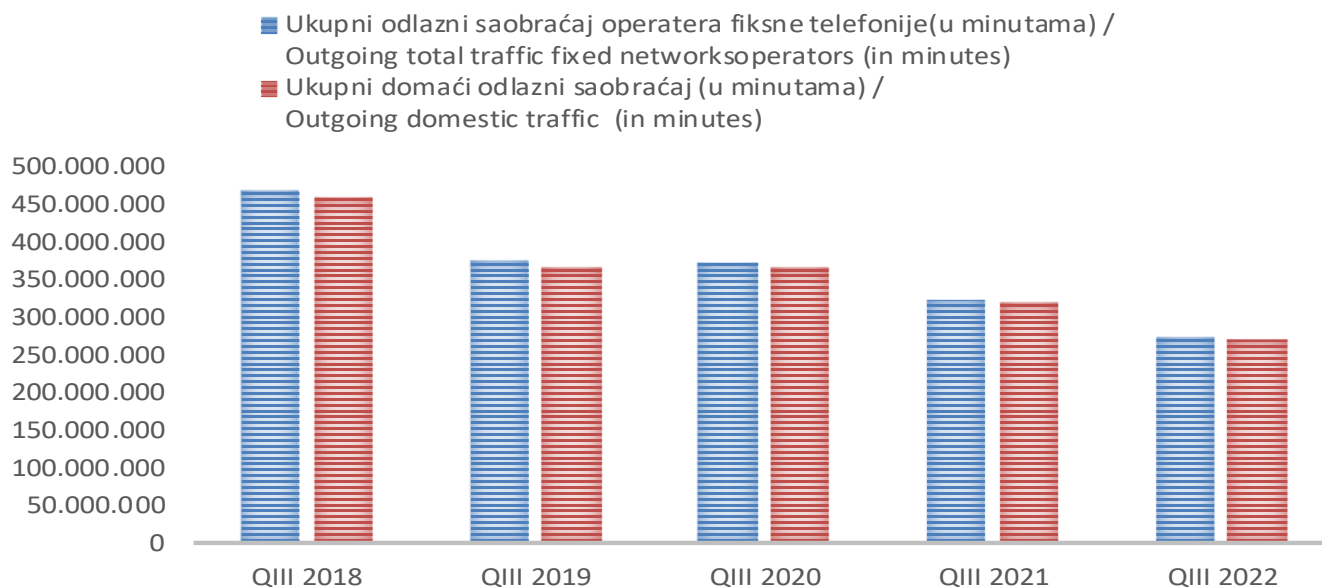


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

Odlazni saobraćaj operatera u minutama	III Kvartal/ quarter	III Kvartal/ quarter	III Kvartal/ quarter	II Kvartal/ quarter	III Kvartal/ quarter	Outgoing traffic operators in minutes
	2019.	2020.	2021.	2022.	2022.	
Ukupno odlazni saobraćaj operatera fiksne telefonije	374.211.938	371.264.377	323.513.152	287.232.596	274.610.383	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	367.612.871	365.656.116	319.049.715	283.626.329	270.737.596	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	6.599.067	5.608.261	4.463.437	3.606.267	3.872.787	International outgoing fixed telephone traffic

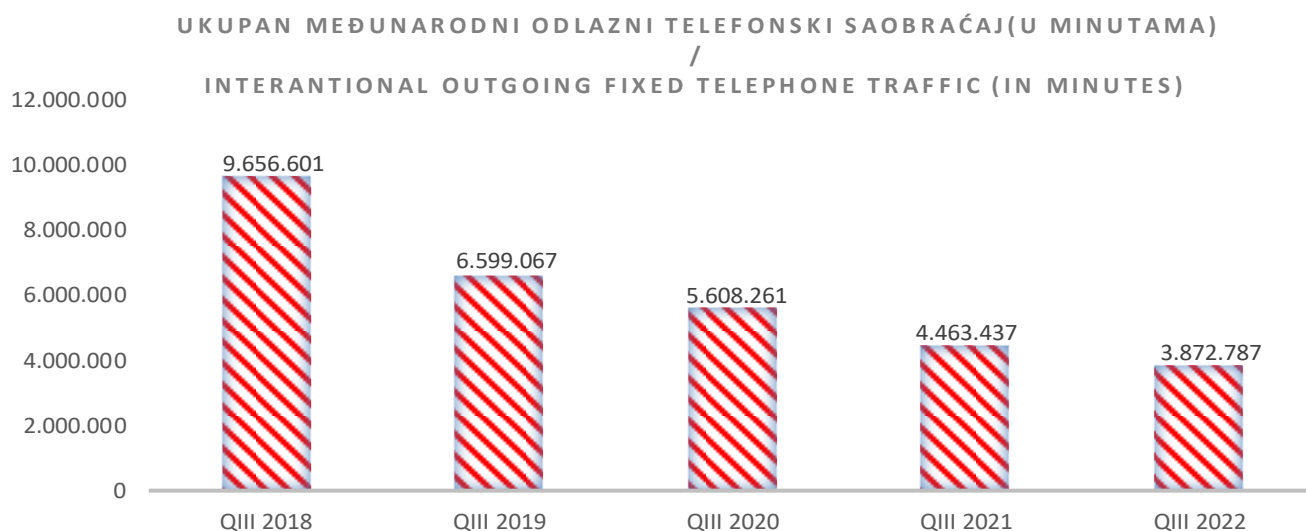
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
 Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	III 2022 III 2020	III 2022 III 2021	III 2022 II 2022	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	74,0	84,9	
Ukupni domaći odlazni saobraćaj	74,0	84,9	95,5	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	69,1	86,8	107,4	International outgoing fixed telephone traffic

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

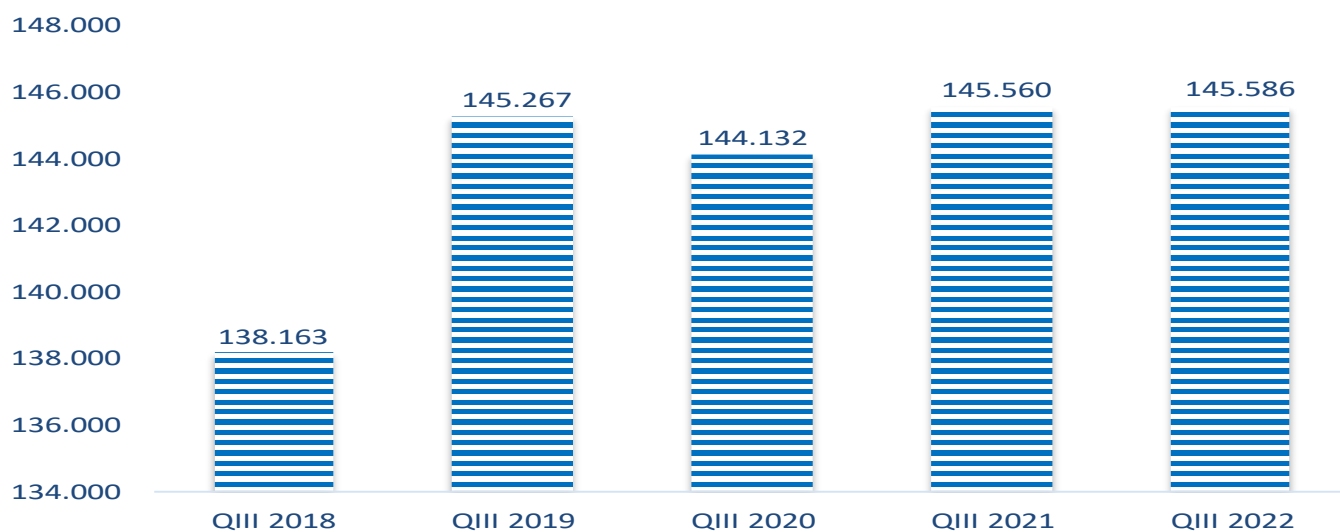
Grafikon 1.2.1 Saobraćaj ostvaren putem fiksne telefonske mreže

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



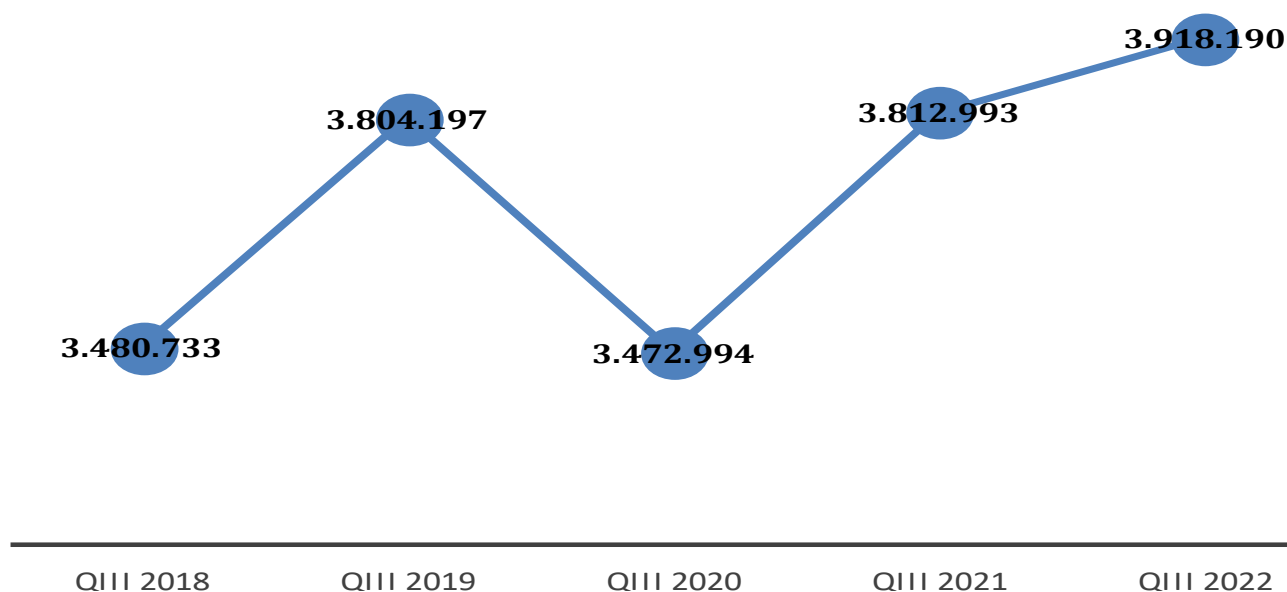
2. MOBILNA TELEFONSKA MREŽA

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

	III Kvartal <i>quarter</i> 2020.	III Kvartal <i>quarter</i> 2021.	II Kvartal <i>quarter</i> 2022.	III Kvartal <i>quarter</i> 2022.	III 2022 II 2022	III 2022 III 2021	
	Indeksi/ <i>Indices</i>						
Ukupan broj korisnika mobilne mreže	3.472.994	3.812.993	3.565.242	3.918.190	109,9	102,8	<i>Total number of mobile network users</i>
Penetracija mobilne telefonije	98,35%	109,73%	102,60%	113,47%	110,6	103,4	<i>Penetration of mobile telephony</i>
Ukupan broj prenesenih brojeva	87.855	101.889	112.829	116.383	103,1	114,2	<i>The total number of transferred numbers</i>
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	629.436.262	665.897.287	667.012.948	676.715.304	101,5	101,6	<i>Total outgoing traffic of mobile operators (in minutes)</i>
Broj poslatih SMS poruka	94.891.886	89.853.140	84.414.941	75.123.652	89,0	83,6	<i>SMS sent</i>
Broj poslatih MMS poruka	360.991	356.933	383.772	361.377	94,2	101,2	<i>MMS sent</i>

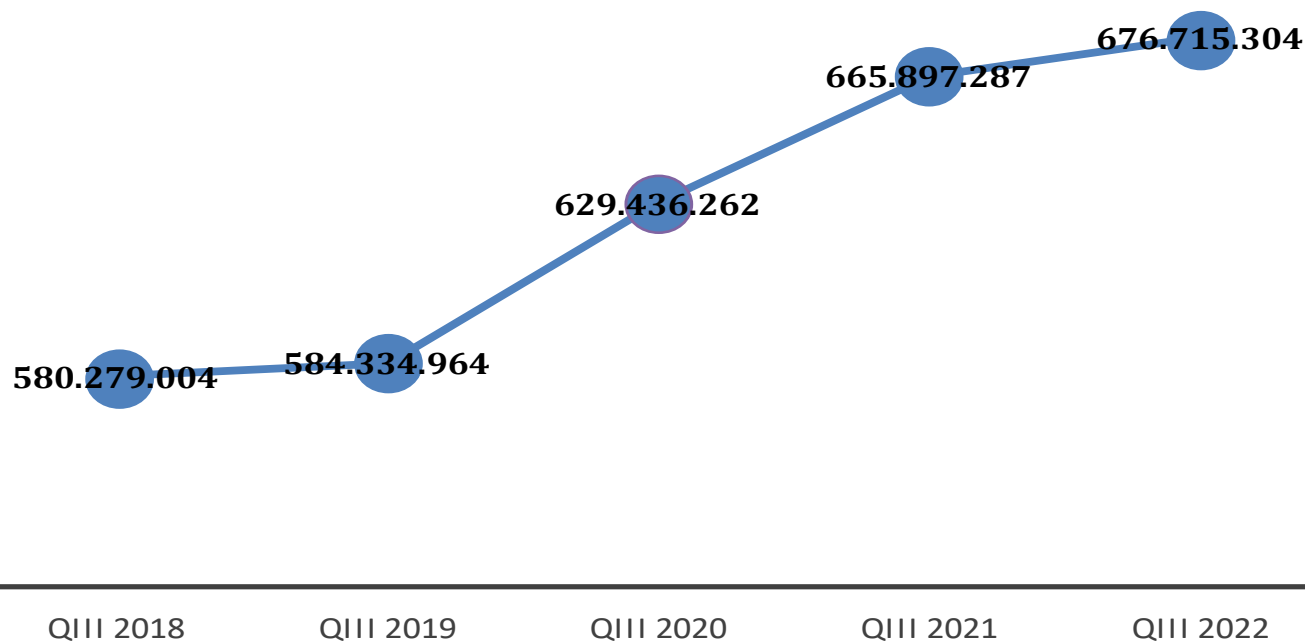
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
 Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

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



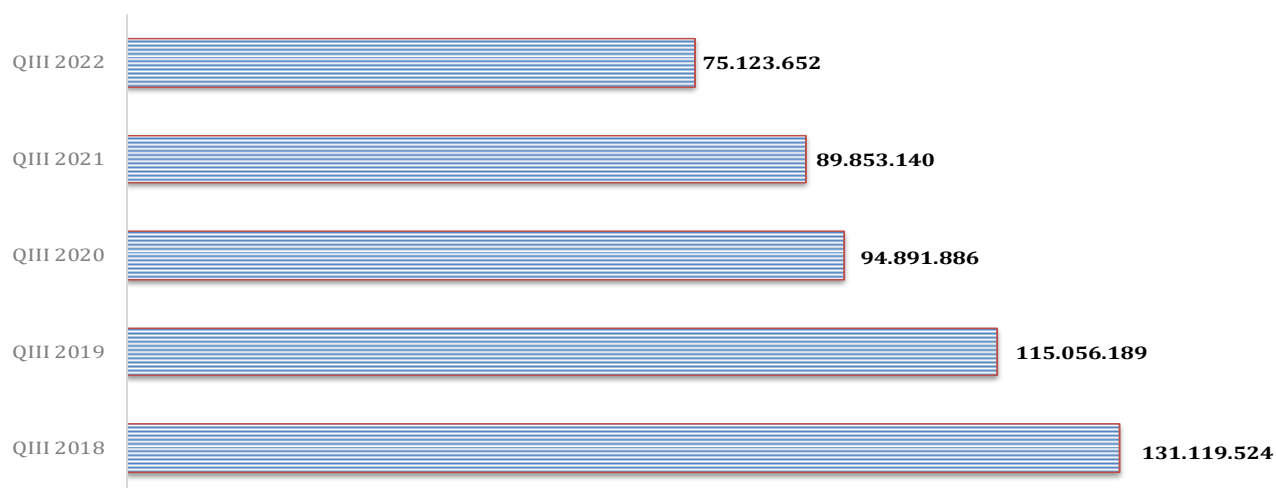
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama)

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



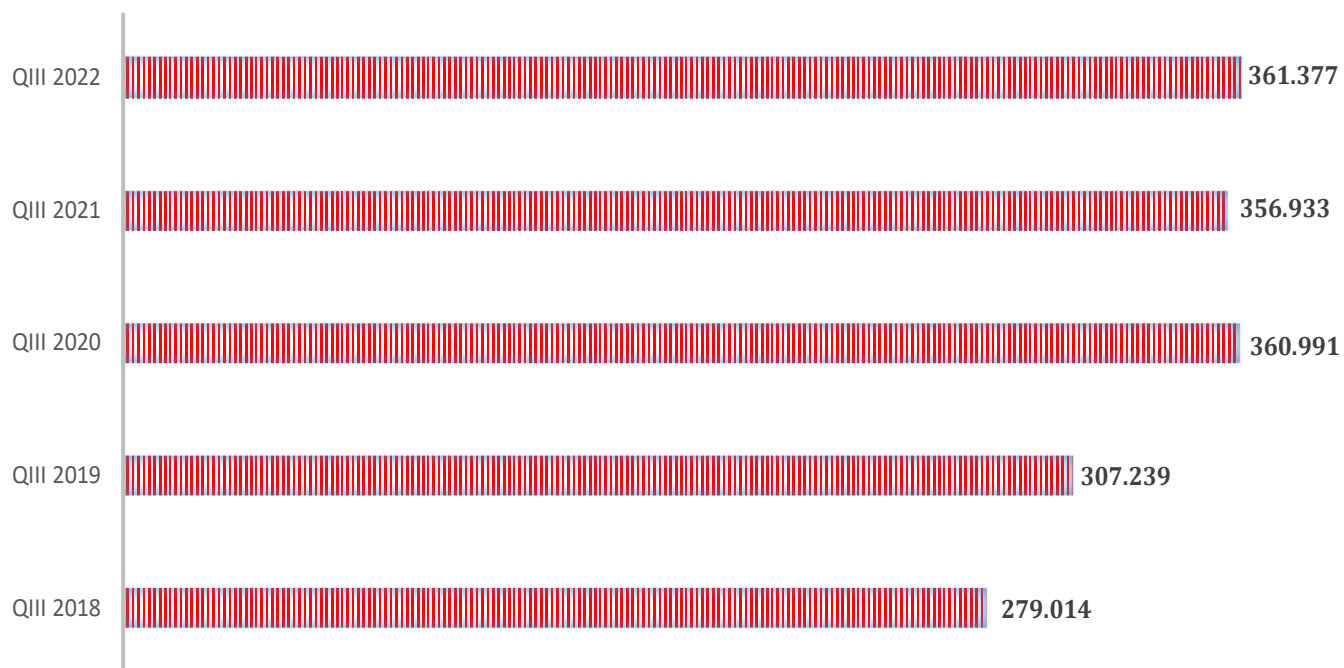
Grafikon 2.3. Broj poslatih SMS poruka

Graph 2.3 SMS sent



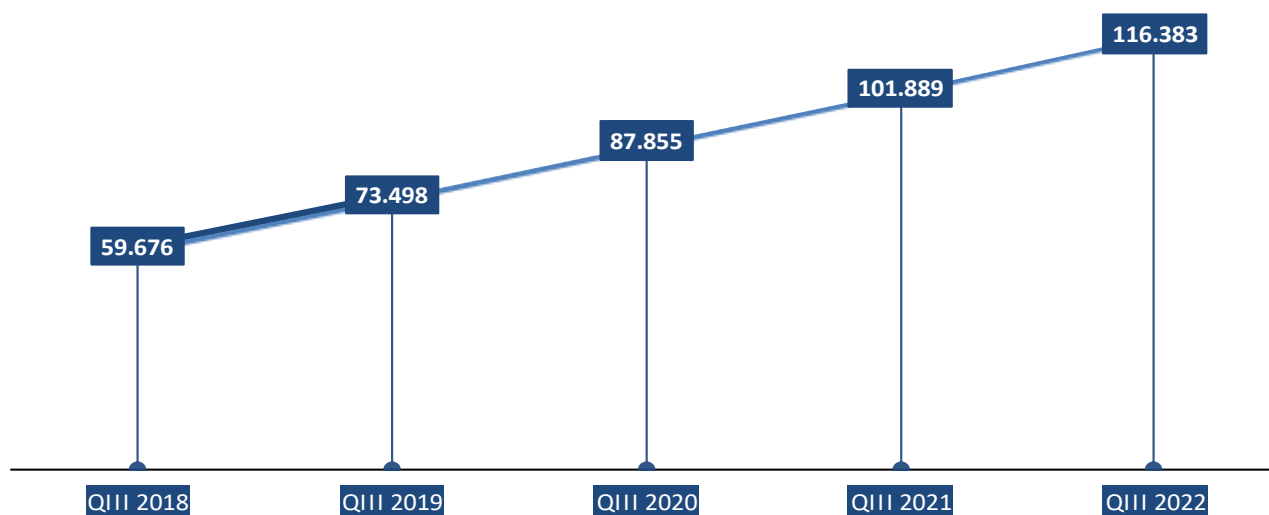
Grafikon 2.4. Broj poslatih MMS poruka

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

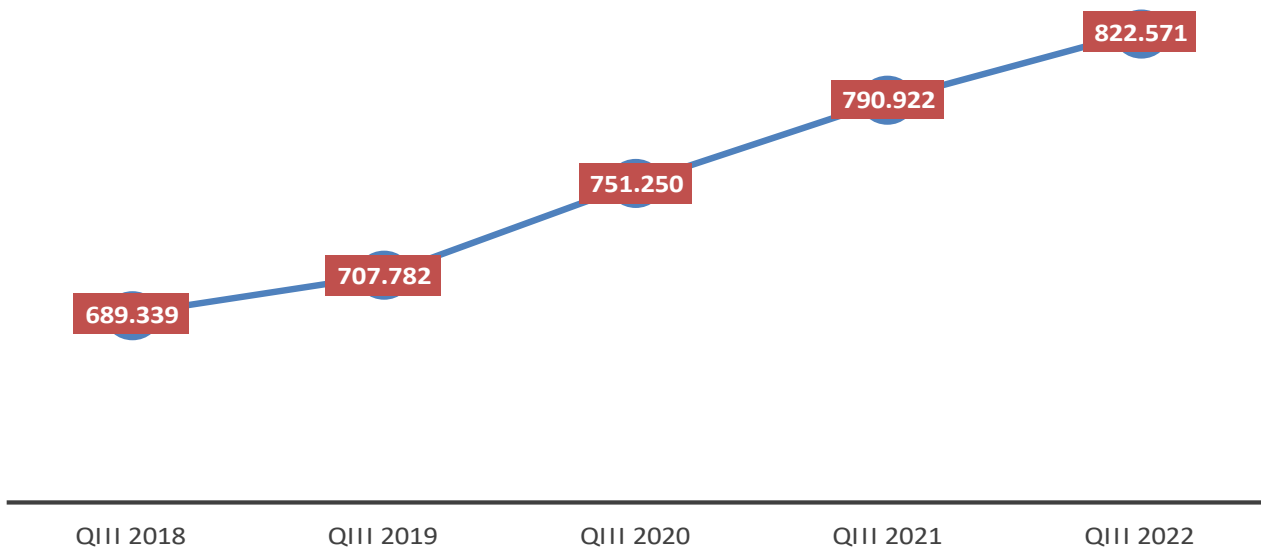
	III Kvartal quarter	III Kvartal quarter	II Kvartal quarter	III Kvartal quarter	III 2022 II 2022	III 2022 III 2021	
	2020.	2021.	2022.	2022.	Indeksi/Indicies		
Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže	751.250	790.922	820.088	822.571	100,3	104,0	Total number of broadband subscribers
Broj xDSL priključaka	411.913	415.736	421.021	419.517	99,6	100,9	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	246.473	263.973	268.740	269.904	100,4	102,2	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	50.382	54.356	63.091	62.757	99,5	115,5	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.696	1.662	2.228	2.254	101,2	135,6	Number of subscribers via leased lines
Broj priključaka FTTx	40.487	55.179	64.980	68.116	104,8	123,4	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	299	16	16	16	100,0	100,0	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	92,35%	97,14%	100,57%	101,56%	101,0	104,6	Penetration rate of Internet users via the fixed network

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

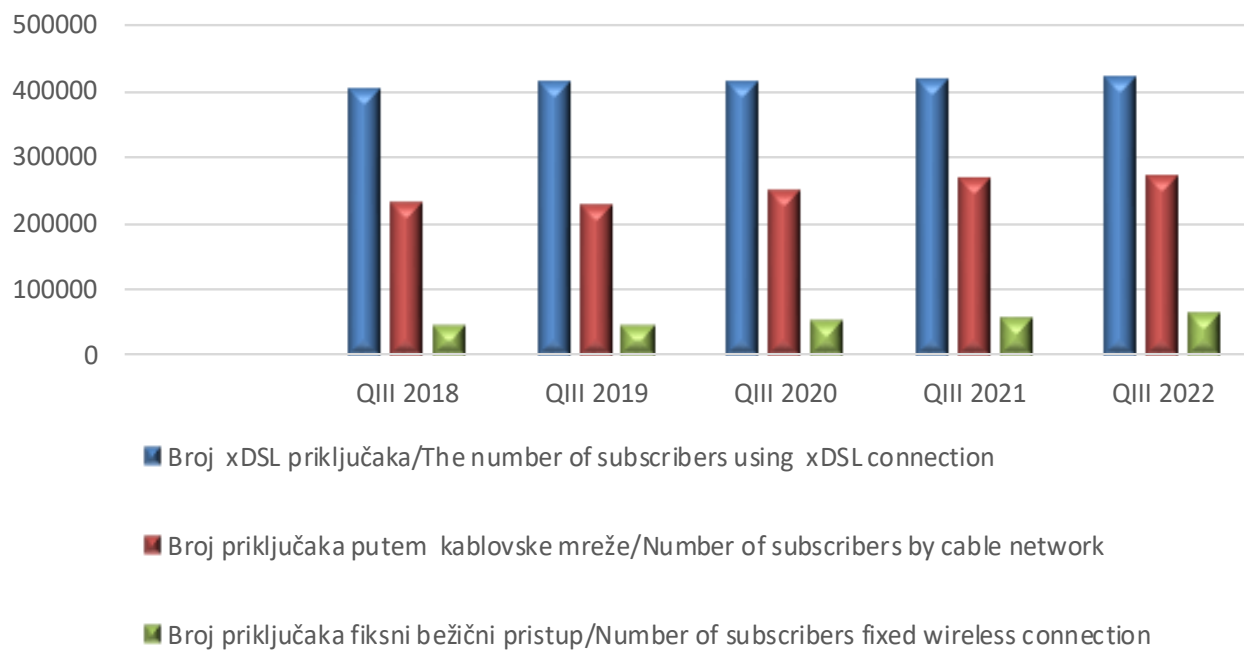
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 3.1 Ukupan broj priključaka 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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