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ELEKTRONSKE KOMUNIKACIJE, drugi kvartal 2020. *ELECTRONIC COMMUNICATIONS, second quarter 2020.*

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u drugom kvartalu 2020. godine iznosio je 573.311 što predstavlja pad od 1,0% u odnosu na drugi kvartal 2020. godine.

Total number of fixed telephone lines of dominant operators in the second quarter 2020 was 573.311 which represents a decrease of 1,0% compared to the second quarter 2020th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u drugom kvartalu 2020. godine iznosio je 408.637.516 minuta, što pokazuje rast od 3,2% u odnosu na drugi kvartal 2019. godine.

The total traffic of fixed telephone network in the second quarter 2020 was 408.637.516 minutes which shows a increase of 3,2% compared the second quarter 2019th.

Broj korisnika mobilne mreže u drugom kvartalu 2020-e godine iznosio je 3.380.233 i bilježi pad od 5,7% u odnosu na drugi kvartal 2019. godine. Ukupni odlazni saobraćaj mobilne mreže u drugom kvartalu 2020. godine iznosio je 599.117.898 minuta, što predstavlja rast od 5,3 % u odnosu na drugi kvartal 2019. godine.

Total mobile network users in the first quarter 2020 was 3.380.233 which shows a decrease of 5,7% compared to the second quarter 2019th year. The total traffic of mobile telephone network in the second quarter 2020 was 599.117.898 minutes which represents a increase of 5,3% compared to the second quarter 2019th year.

Broj poslanih SMS poruka u drugom kvartalu 2020. godine manji je za 30,7%, dok je broj poslanih MMS poruka veći za 31,9% u odnosu na drugi kvartal 2019. godine.

Number of SMS messages sent in the second quarter 2020 decreased by 30,7%, while the number of MMS messages sent increase by 31,9% compared to the second quarter 2019th.

Ukupan broj internet priključaka putem fiksne mreže u drugom kvartalu 2020. godine iznosio je 744.104 i bilježi rast od 5,2% u odnosu na prvi kvartal 2019. godine.

The total number of Internet connections via the fixed network in the second quarter of 2020 was 744.104 an increase of 5,2% compared the second quarter of 2019th.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	II Kvartal <i>quarter</i> 2018.	II Kvartal <i>quarter</i> 2019.	I Kvartal <i>quarter</i> 2020	II Kvartal <i>quarter</i> 2020	II 2020 II2019	II 2020 I 2020	
					<i>Indeksi/Indicies</i>		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	613.822	597.285	575.423	573.311	96,0	99,6	Total number of fixed telephone lines of incumbenm ¹ operators
Broj novih operatera fiksne telefonije	11	11	11	13	118,2	118,2	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	137.314	144.196	146.008	145.401	100,8	99,6	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	1.947	796	211	185	23,2	87,7	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	72.124	82.053	89.771	90.605	110,4	100,9	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

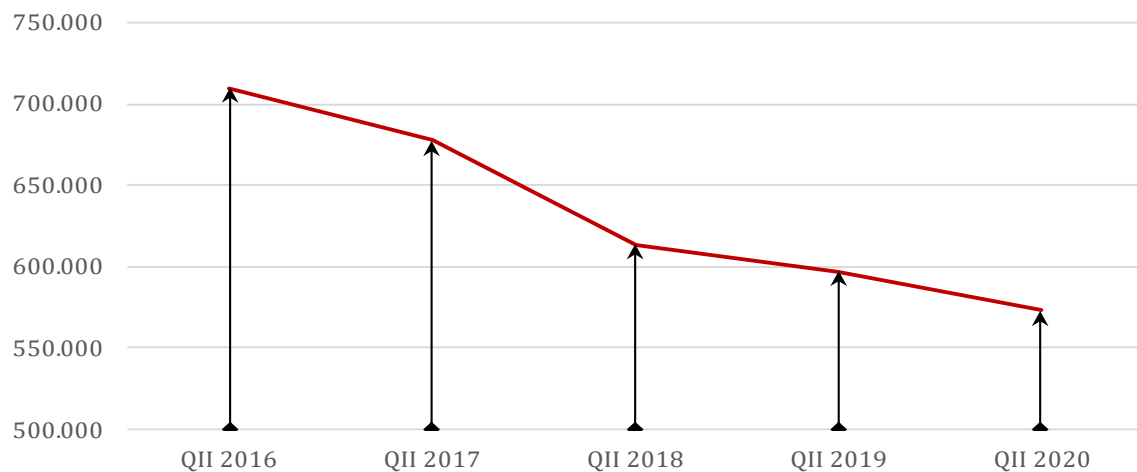
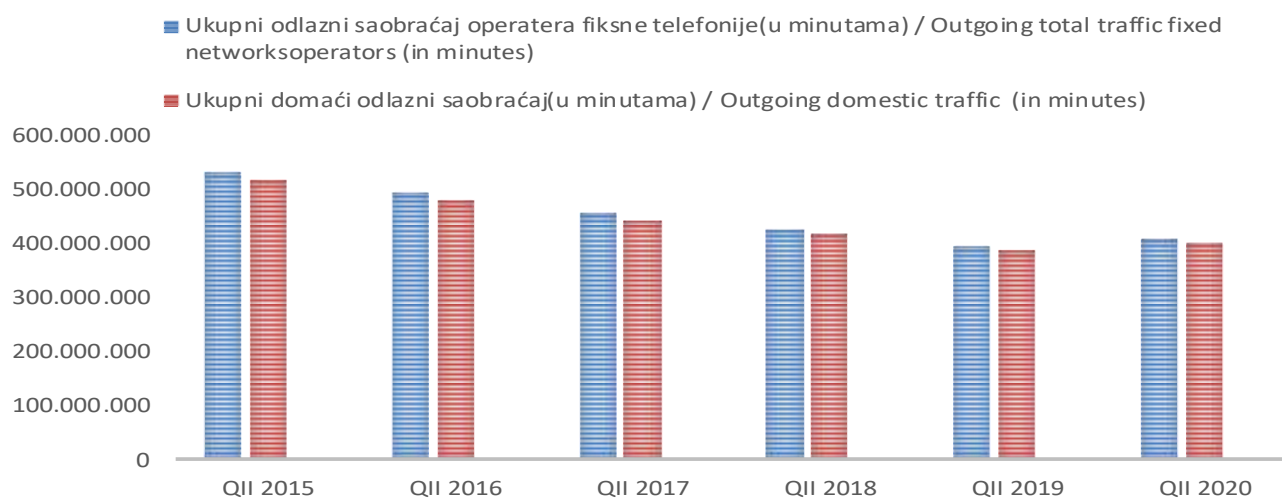


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

Odlazni saobraćaj operatera u minuta	II kvartal/ quarter	II kvartal/ quarter	II kvartal/ quarter	I kvartal/ quarter	II kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2017	2018	2019	2020	2020	
Ukupno odlazni saobraćaj operatera fiksne telefonije	455.175.167	427.000.629	396.021.252	399.237.791	408.637.516	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	443.466.685	418.272.133	389.070.890	392.780.912	402.713.893	Outgoing domestic traffic
Ukupni međunarodni i odlazni telefonski saobraćaj	11.708.482	8.728.499	6.950.362	6.456.879	5.923.623	Interantional outgoing fixed telephone traffic

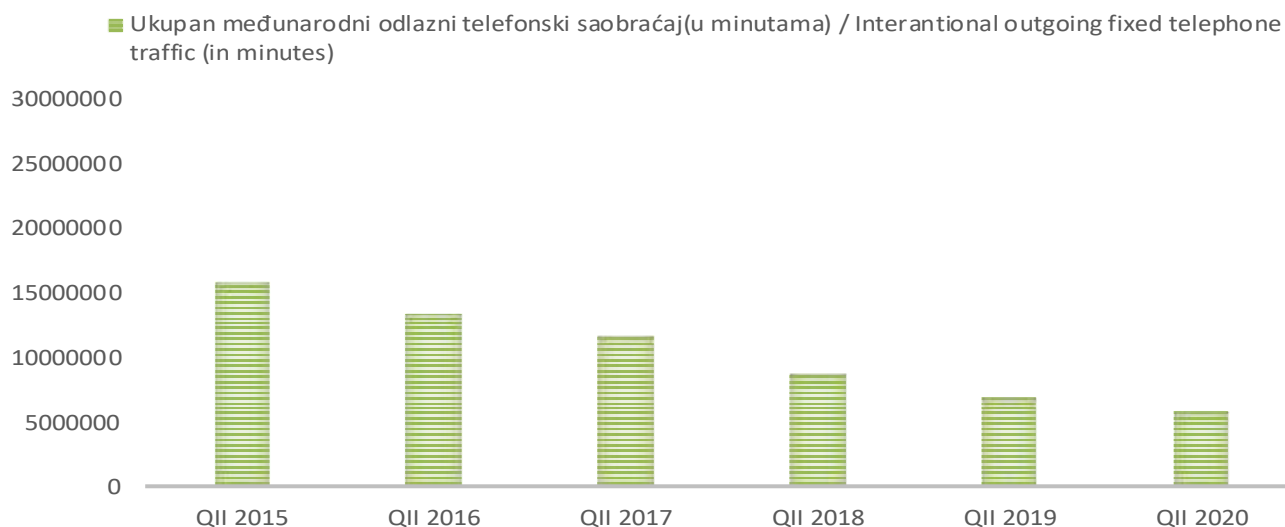
*Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)**Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)*

Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	II 2020 II 2018	II 2020 II 2019	II 2020 I 2020	Indicies by indicators outgoing traffic fixed-line operator
Ukupno odlazni saobraćaj operatera fiksne telefonije	95,7	103,2	102,4	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	96,3	103,5	102,5	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	67,9	85,2	91,7	Interantional outgoing fixed telephone traffic

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

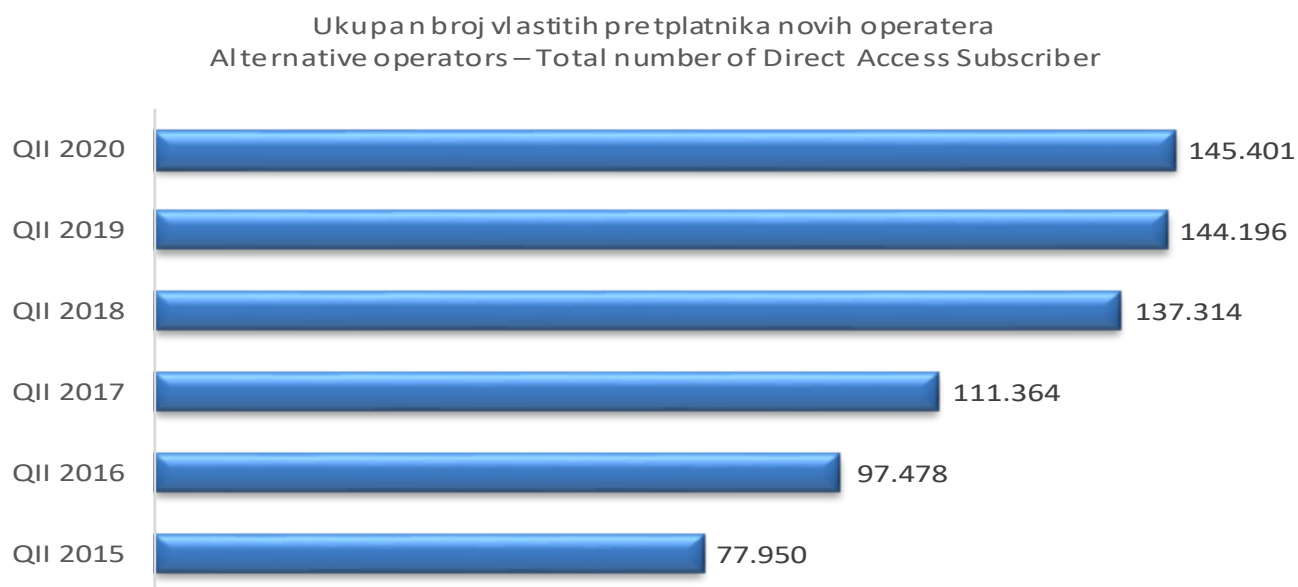
Grafikon 1.2.1 Saobraćaj ostvaren putem fiksne telefonske mreže

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

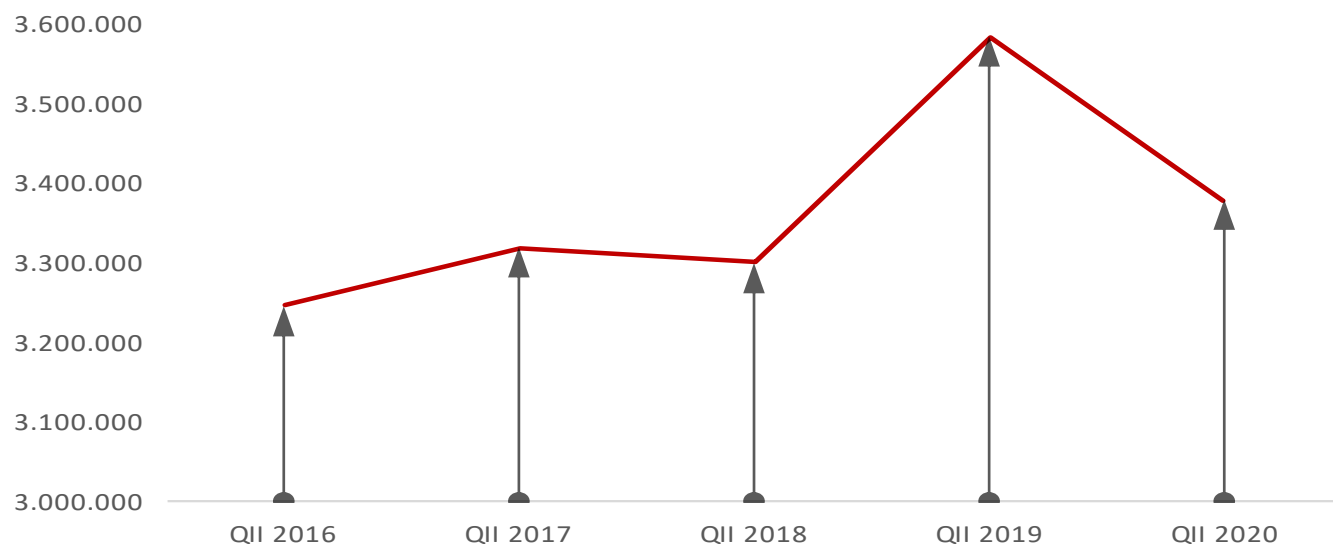
	II Kvartal quarter 2018.	II Kvartal quarter 2019.	I Kvartal quarter 2020.	II Kvartal quarter 2020.	II 2020 II 2019	II 2020 I 2020	
					Indeksi/Indicies		
Ukupan broj korisnika mobilne mreže	3.300.634	3.585.604	3.591.425	3.380.233	94,3	94,1	Total number of mobile network users
Penetracija mobilne telefonije	93,47%	101,54%	101,71%	95,73%	94,3	94,1	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	56.477	66.755	81.572	83.950	102,9	125,8	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	570.271.219	569.037.510	560.140.652	599.117.898	105,3	107,0	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	133.713.307	119.157.496	95.122.730	82.491.465	69,2	86,7	SMS sent
Broj poslatih MMS poruka	224.401	278.685	301.756	367.635	131,9	121,8	MMS sent

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

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

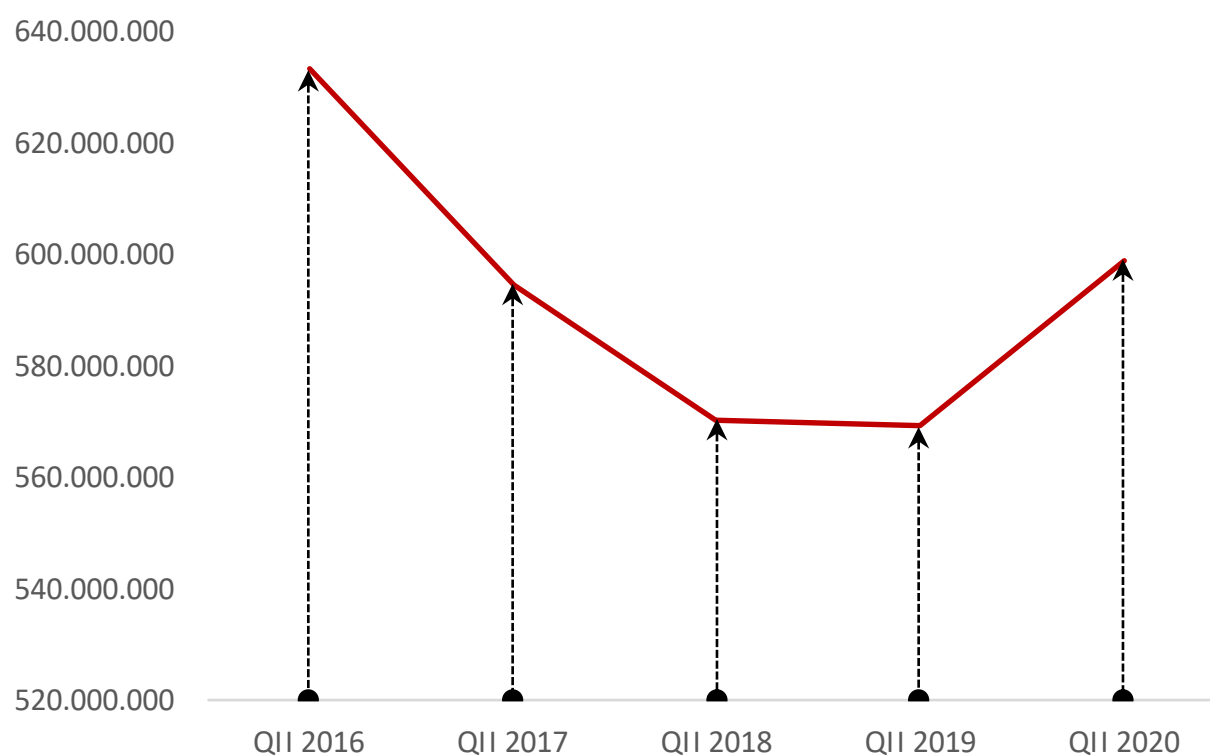
Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji

Graph.2.1 Number of users of telephone services in mobile telephony



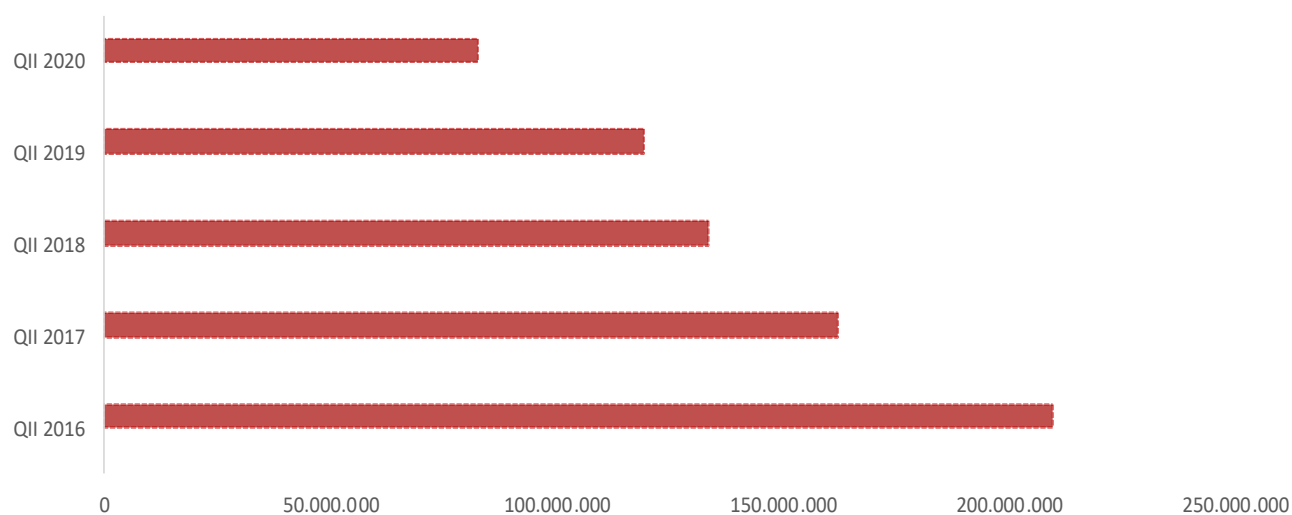
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije, u minutama

Graph.2.2 Outgoing traffic of mobile operators, in minutes



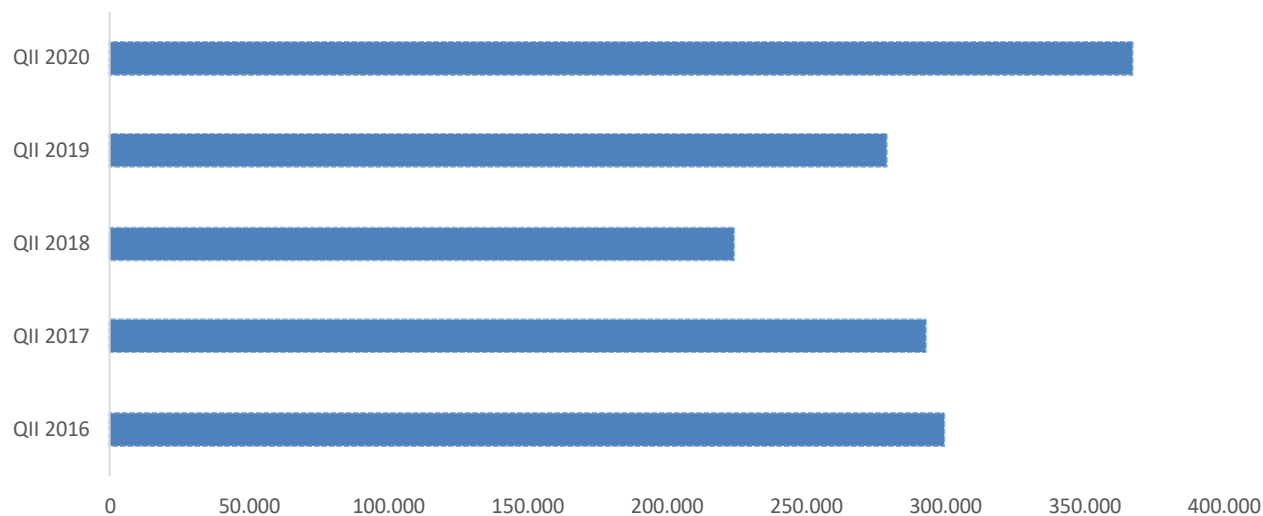
Grafikon 2.3. Broj poslatih SMS poruka

Graph.2.3. SMS sent



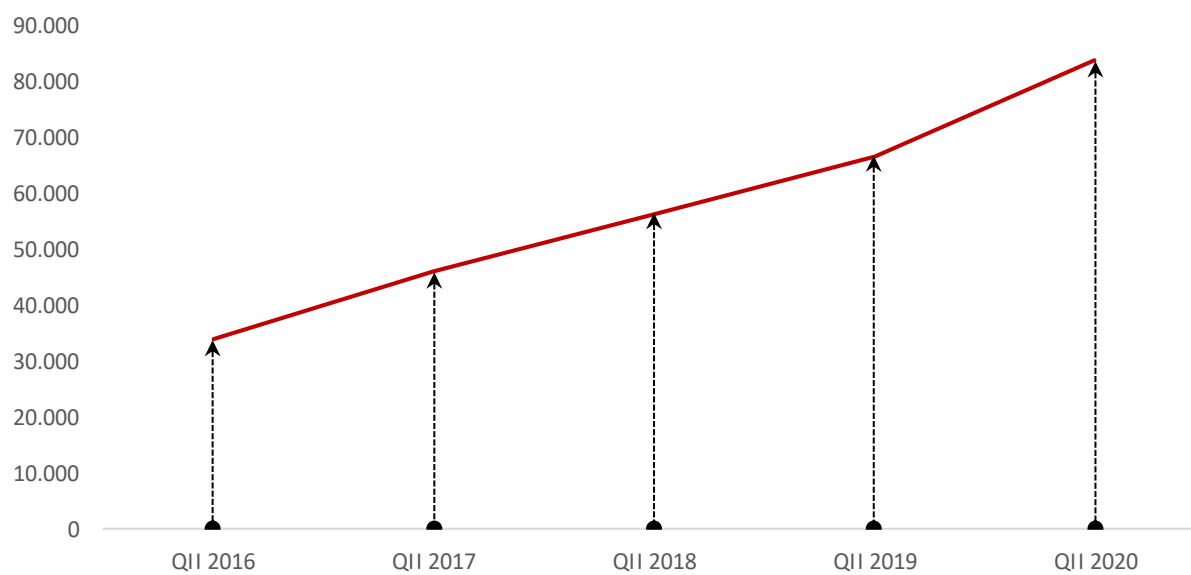
Grafikon 2.4. Broj poslatih MMS poruka

Graph.2.4. MMS sent



Grafikon 2.4. Ukupan broj prenesenih brojeva

Graph.2.4. The total number of transferred numbers



3. PRISTUP INTERNETU

Tabela 3. Pristup internetu

Table 3. Internet access

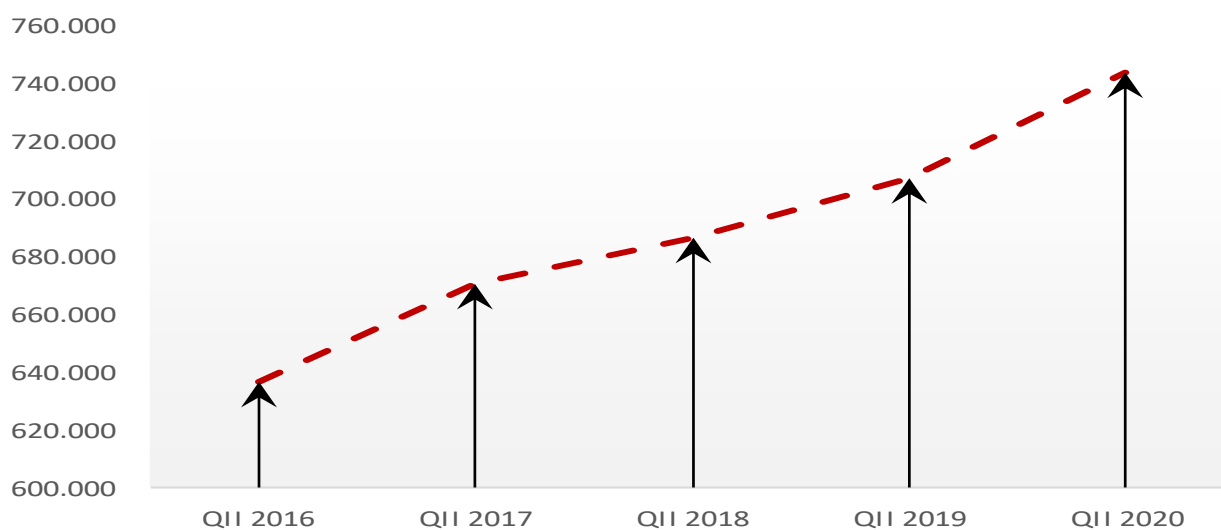
	II Kvartal quarter 2018	II Kvartal quarter 2019	I Kvartal quarter 2020	II Kvartal quarter 2020	II 2020 II 2019	II 2020 I 2020	
	2018	2019	2020	2020	Indeksi/Indices		
Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže	686.546	707.543	741.486	744.104	105,2	100,4	Total number of broadband subscribers
Broj xDSL priključaka	398.716	410.263	413.580	413.977	100,9	100,1	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	230.030	230.550	241.184	243.368	105,6	100,9	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	43.541	41.912	52.369	48.527	115,8	92,7	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.078	911	1.711	1721	188,9	100,6	Number of subscribers via leased lines
Broj priključaka FTTx	13.033	23.769	32.453	36.337	152,9	112,0	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	148	138	189	174	126,1	92,1	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	85,50%	87,50%	91,88%	91,88%	-	-	Penetration rate of Internet users via the fixed network

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

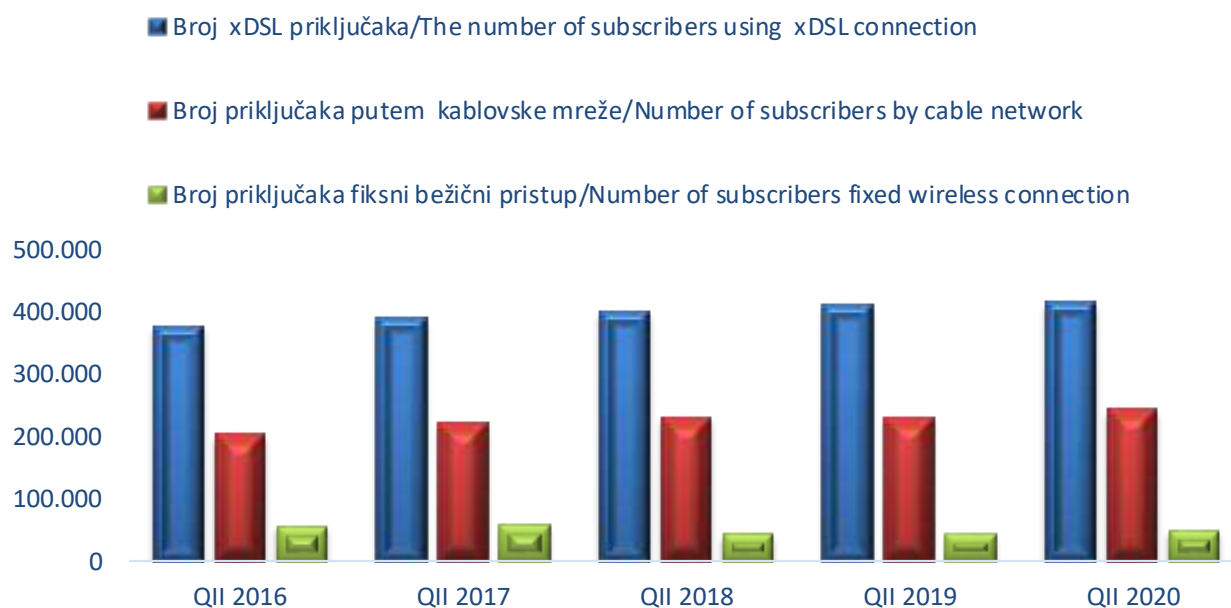
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 3.1 Ukupan broj priključaka pristupa internetu putem fiksne mreže

Graph 3.1 Number of broadband subscribers



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 saopćenja 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.

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

NOTES ON 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 messages (Multimedia Messaging Service) are messages which include multimedia services (pictures, music).

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