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ELEKTRONSKE KOMUNIKACIJE, treći kvartal 2020. ELECTRONIC COMMUNICATIONS, third quarter 2020.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u trećem kvartalu 2020. godine iznosio je 566.421, što predstavlja pad od 4,1% u odnosu na treći kvartal 2019. godine.

Total number of fixed telephone lines of dominant operators in the third quarter 2020 was 566.421 which represents a decrease of 4,1% compared to the third quarter 2019th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u trećem kvartalu 2020. godine iznosio je 371.264.377 minuta, što pokazuje pad od 0,8% u odnosu na treći kvartal 2019. godine.

The total traffic of fixed telephone network in third quarter 2020 was 371.264.377 minutes which shows an decrease of 0,8% compared to third quarter 2019th.

Broj korisnika mobilne mreže u trećem kvartalu 2020. godine iznosio je 3.472.994 i bilježi pad od 8,7% u odnosu na treći kvartal 2019. godine. Ukupni odlazni saobraćaj mobilne mreže u trećem kvartalu 2020. godine iznosio je 629.436.262 minuta, što pokazuje rast od 7,7% u odnosu na treći kvartal 2019. godine.

Number of mobile phone users in the third quarter 2020 was 3.472.994 which shows an decrease of 8,7% compared to the third quarter 2019th year. The total traffic of mobile telephone network in the third quarter 2020 was 629.436.262 minutes which shows an increase of 7,7% compared to the third quarter 2019th year.

Broj poslanih SMS poruka u trećem kvartalu 2020. godine manji je za 17,5%, broj poslanih MMS poruka veći je za 17,5% u odnosu na treći kvartal 2019. godine.

Number of SMS messages sent in the third quarter 2020 decreased by 17,5%, while the number of MMS messages sent increase by 17,5%, compared to the third quarter 2019^h.

Ukupan broj internet priključaka putem fiksne mreže u trećem kvartalu 2020. godine iznosio 751.250 i bilježi rast od 6,1% u odnosu na treći kvartal 2019. godine.

The total number of Internet connections via the fixed network in the third quarter of 2020 was 751.250 an increase of 6,1% compared to the third quarter of 2019.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	III Kvartal <i>quarter</i>	III Kvartal <i>quarter</i>	II Kvartal <i>quarter</i>	III Kvartal <i>quarter</i>	III 2020 II2020	III 2020 III 2019	
	2018.	2019.	2020.		Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera	605.933	590.409	573.311	566.421	98,8	95,9	<i>Total number of fixed telephone lines of dominant operators</i>
Broj novih operatera fiksne telefonije	11	11	13	13	-	118,2	<i>The number of new fixed telephony operator</i>
Ukupan broj vlastitih pretplatnika novih operatera	138.163	145.267	145.401	144.132	99,1	99,2	<i>The total number of own subscribers to new operators</i>
Ukupan broj pretplatnika novih operatera sa indirektnim pristupom	2.121	195	185	986	433,0	405,6	<i>Alternative operators - Number of Indirect Access Subscribers</i>
Ukupan broj prenesenih brojeva	76.716	86.444	90.605	91.851	101,4	106,3	<i>The total number of transferred fixed numbers</i>

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

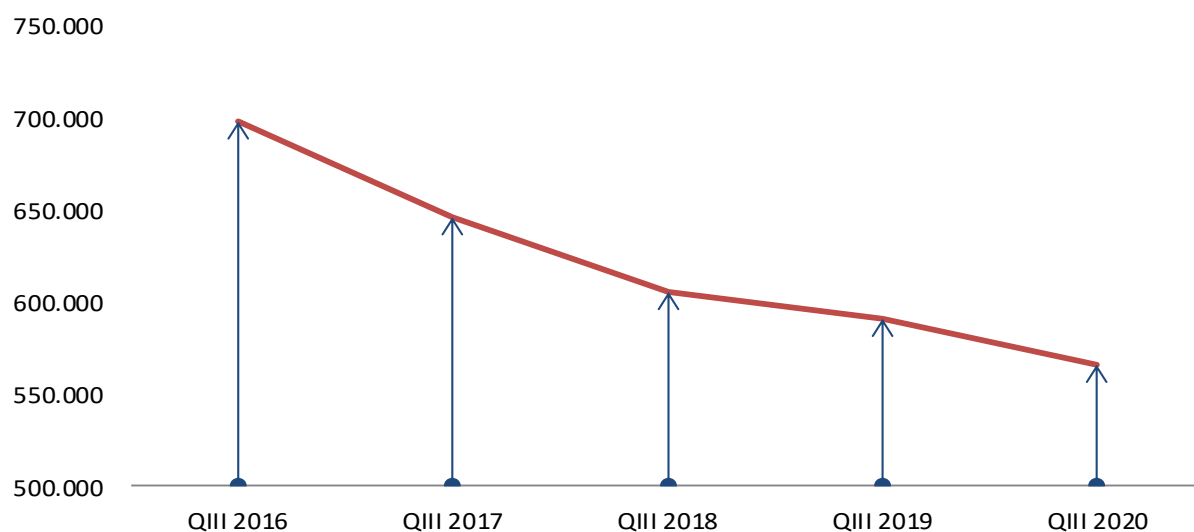


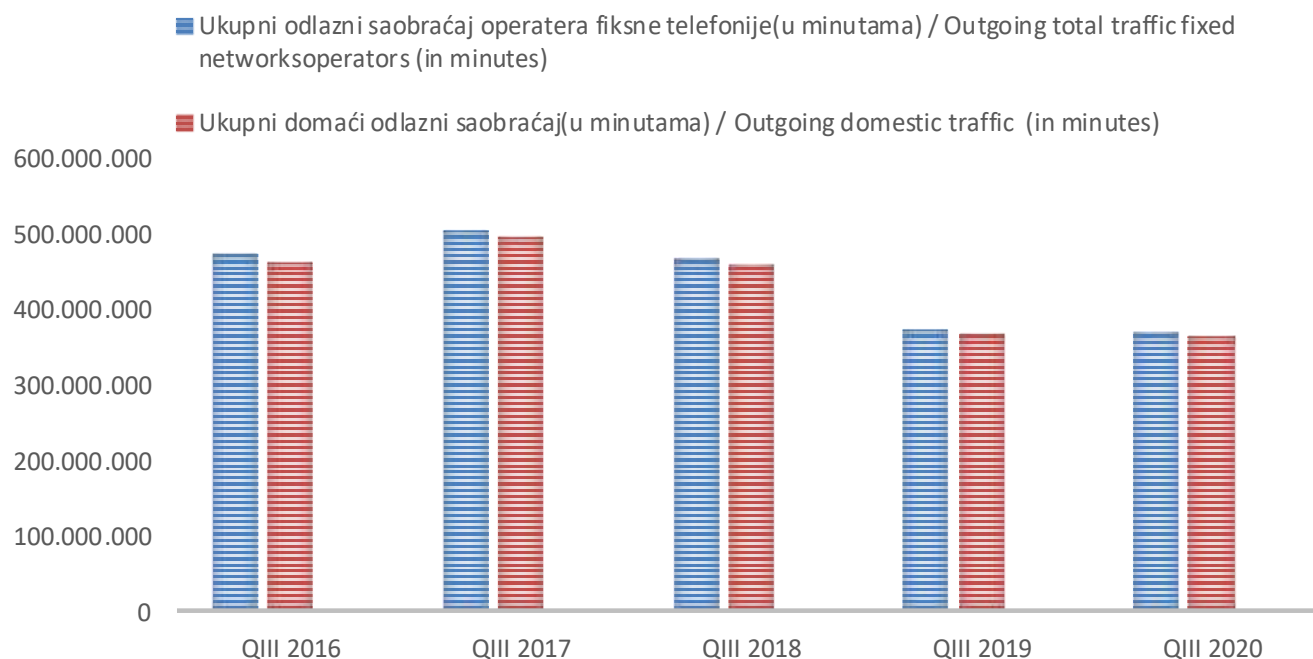
Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije, u milionama minuta*Table 1.2 Outgoing traffic fixed - line operator, in millions of minutes*

Odlazni saobraćaj operatera u milionama minuta	III kvartal/ quarter	III kvartal/ quarter	III kvartal/ quarter	II kvartal/ quarter	III kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2017.	2018.	2019.	2020.	2020.	
Ukupno odlazni saobraćaj operatera fiksne telefonije	506	469	374	409	371	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	496	459	368	403	365	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	10	10	6	6	6	Interantional outgoing fixed telephone traffic

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

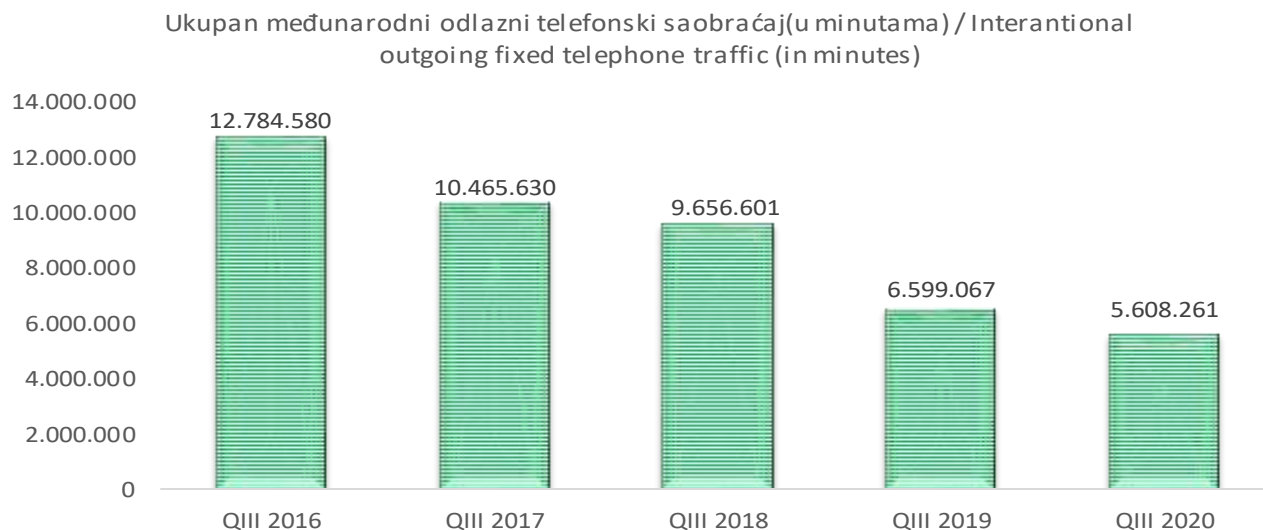
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	III 2020 III 2018	III 2020 III 2019	III 2020 II 2020	Indicies by indicators outgoing traffic fixed-line operator
Ukupno odlazni saobraćaj operatera fiksne telefonije	79,1	99,2	90,7	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	79,5	99,2	90,6	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	60,0	100,0	100,0	Interantional outgoing fixed telephone traffic

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

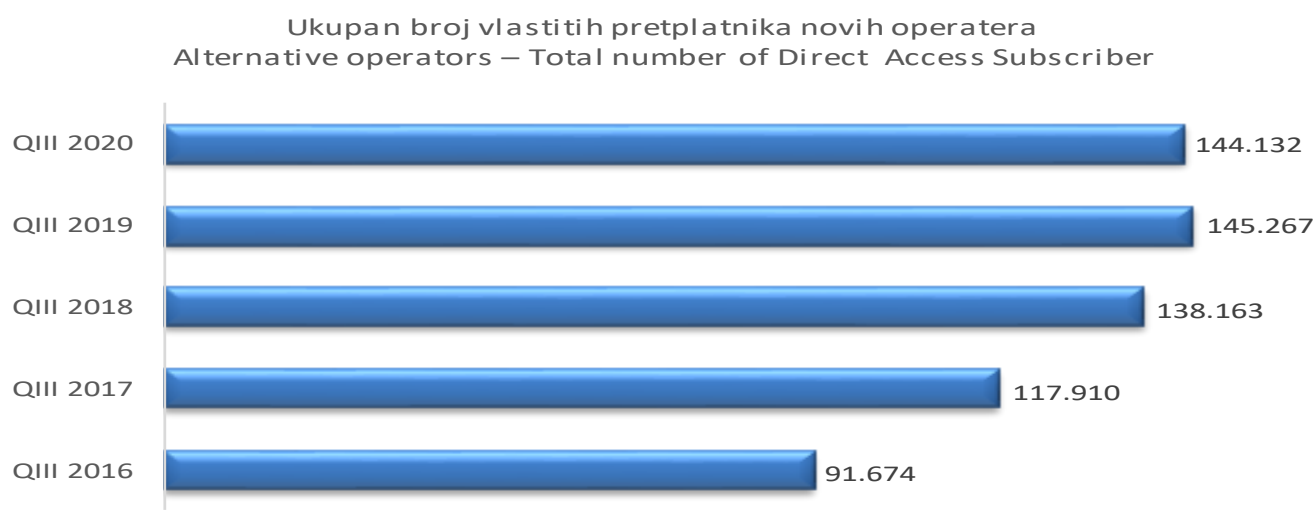
Grafikon 1.2.1 Saobraćaj ostvaren putem fiksne telefonske mreže

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

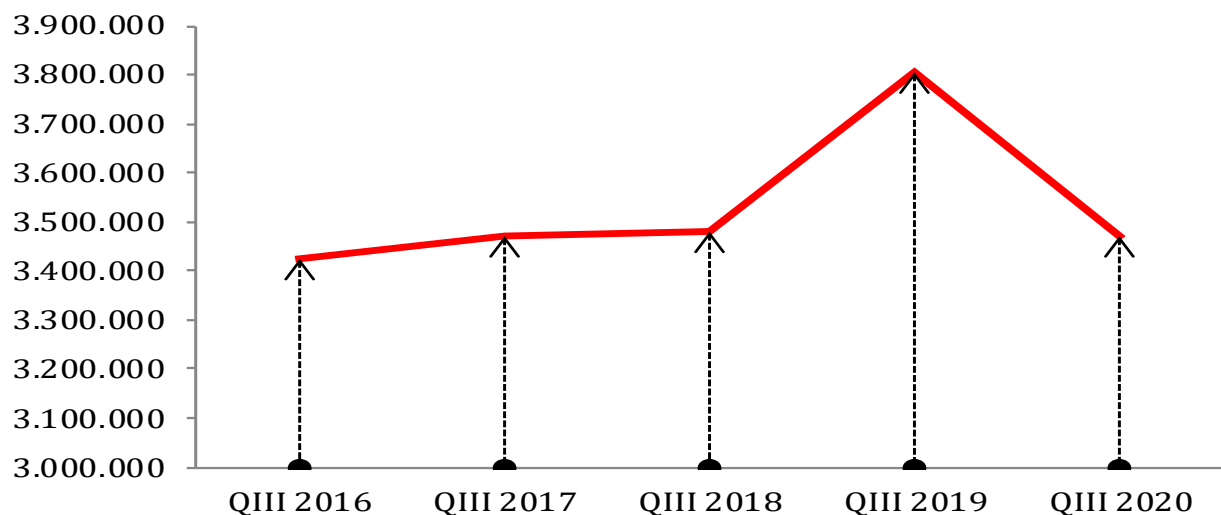
Table 2. Mobile telephone network

	III Kvartal <i>quarter</i>	III Kvartal <i>quarter</i>	II Kvartal <i>quarter</i>	III Kvartal <i>quarter</i>	III 2020 II 2020	III 2020 III 2019	
	2018.	2019.	2020.		<i>Indeksi/Indices</i>		
Ukupan broj korisnika mobilne mreže	3.480.733	3.804.197	3.380.233	3.472.994	102,7	91,3	<i>Total number of mobile network users</i>
Penetracija mobilne telefonije	98,57%	107,73%	95,73%	98,35%	102,7	91,3	<i>Penetration of mobile telephony</i>
Ukupan broj prenesenih brojeva	59.676	73.498	83.950	87.855	104,7	119,5	<i>Thetotal number of transferred numbers</i>
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	580.279.004	584.334.964	599.117.898	629.436.262	105,6	107,7	<i>Total outgoing traffic of mobile operators(in minutes)</i>
Broj poslatih SMS poruka	131.119.524	115.056.189	82.491.465	94.891.886	115,0	82,5	<i>SMS sent</i>
Broj poslatih MMS poruka	279.014	307.239	367.635	360.991	98,2	117,5	<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)

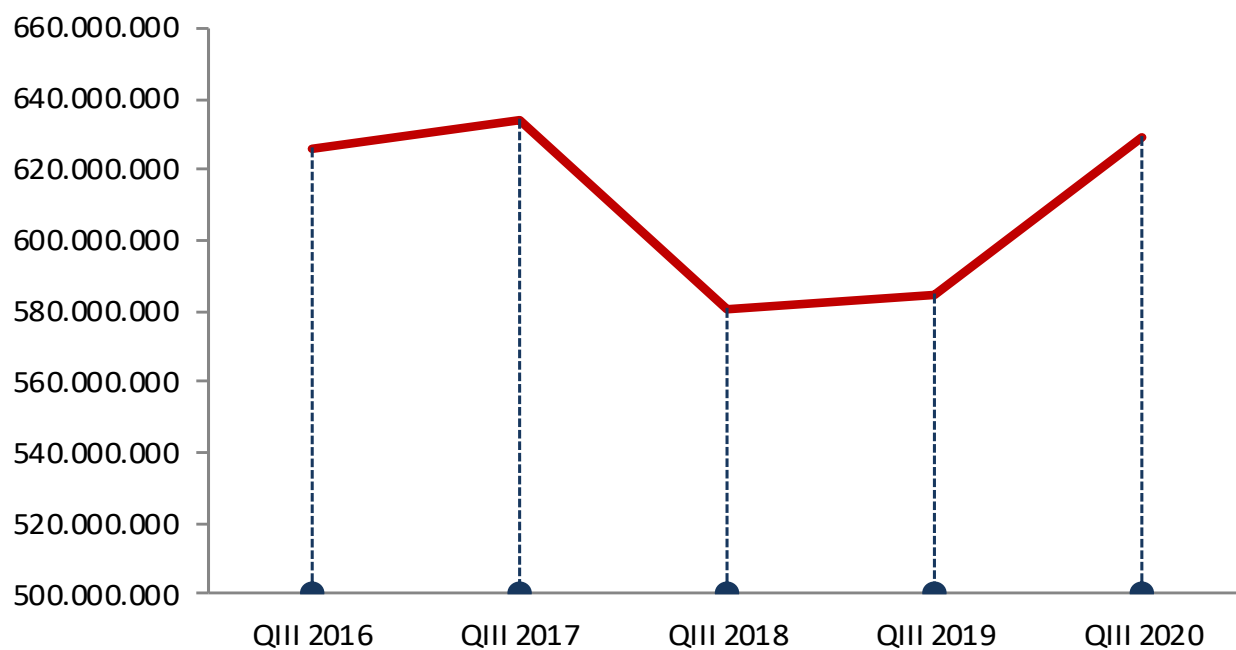
Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji

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



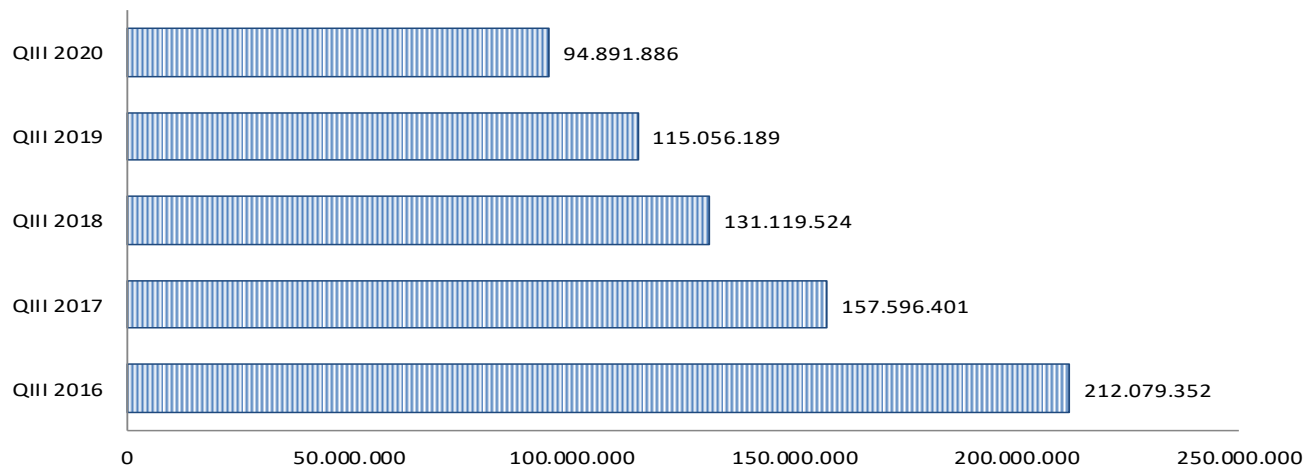
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama)

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

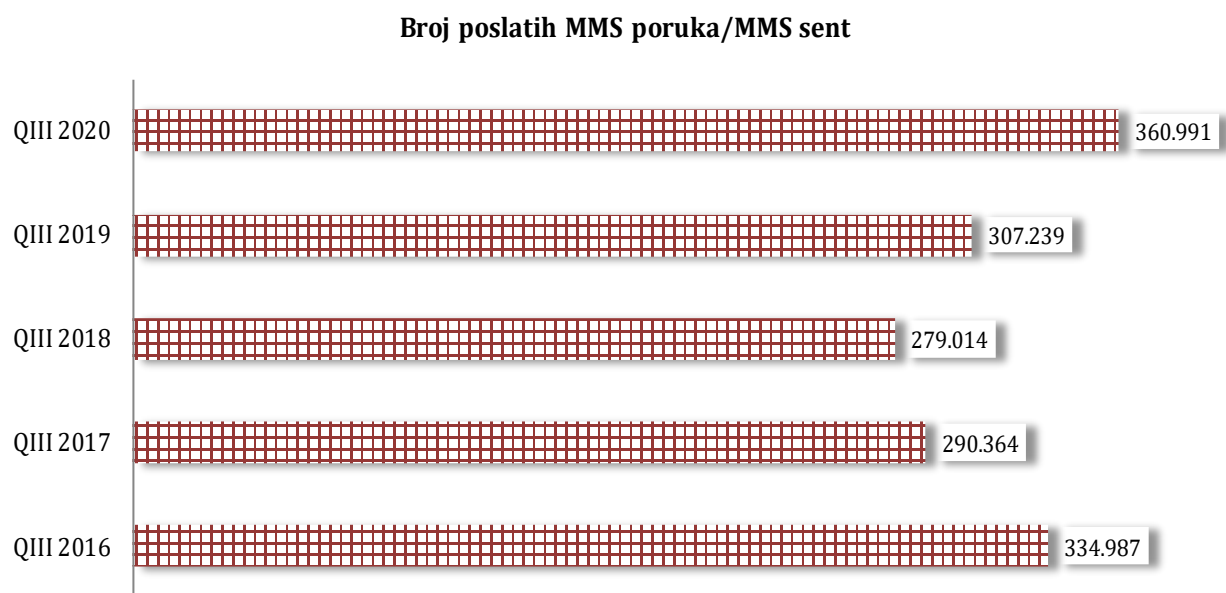


Grafikon 2.3. Broj poslatih SMS poruka

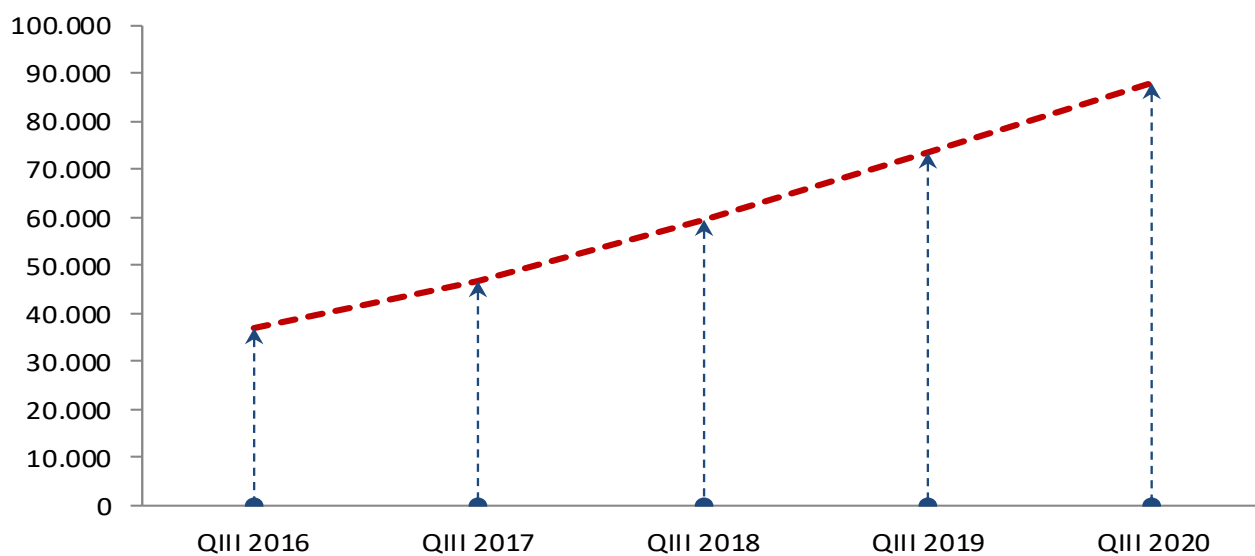
Graph.2.3. SMS sent



Grafikon 2.4. Broj poslatih MMS poruka
Graph.2.4. MMS sent



Grafikon 2.5. Ukupan broj prenesenih brojeva
Graph.2.4. The total number of transferred numbers



3. PRISTUP INTERNETU

Tabela 3. Pristup internetu

Table 3. Internet access

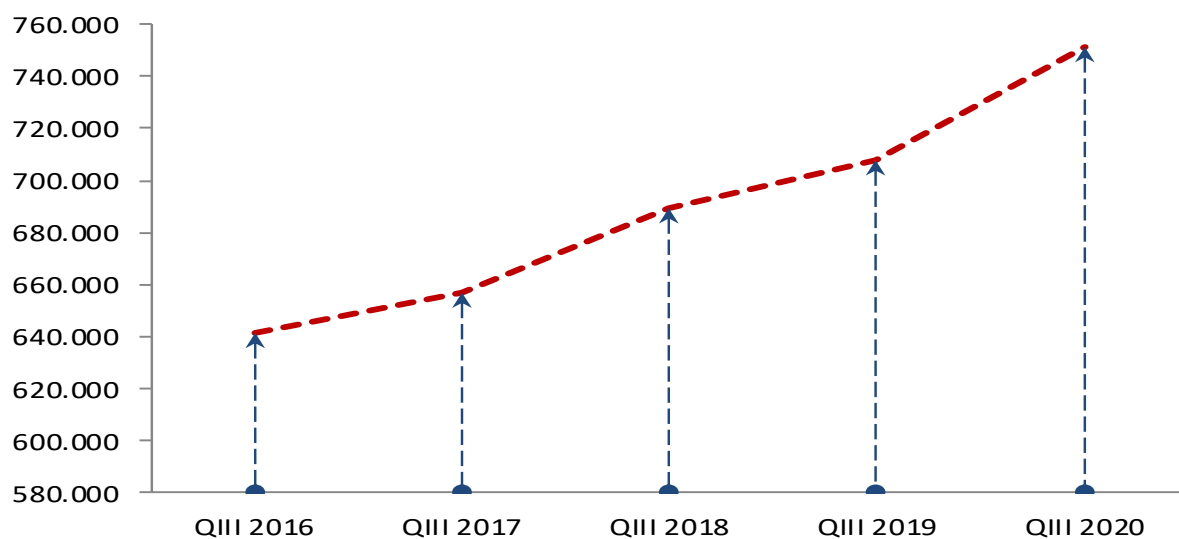
	III Kvartal quarter	III Kvartal quarter	II Kvartal quarter	III Kvartal quarter	III 2020 II 2020	III 2020 III 2019	
	2018.	2019.	2020.		Indeksi/Indices		
Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže	689.339	707.782	744.104	751.250	101,0	106,1	Total number of broadband subscribers
Broj xDSL priključaka	399.789	411.627	413.977	411.913	99,5	100,1	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	230.557	226.879	243.368	246.473	101,3	108,6	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	42.216	42.300	48.527	50.382	104,4	119,1	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.059	973	1721	1696	98,5	174,3	Number of subscribers via leased lines
Broj priključaka FTTx	15.611	25.866	36.337	40.487	111,4	156,5	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	167	137	174	299	171,8	218,2	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	86,0%	87,3%	91,88%	92,35%	100,5	105,8	Penetration rate of Internet users via the fixed network

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

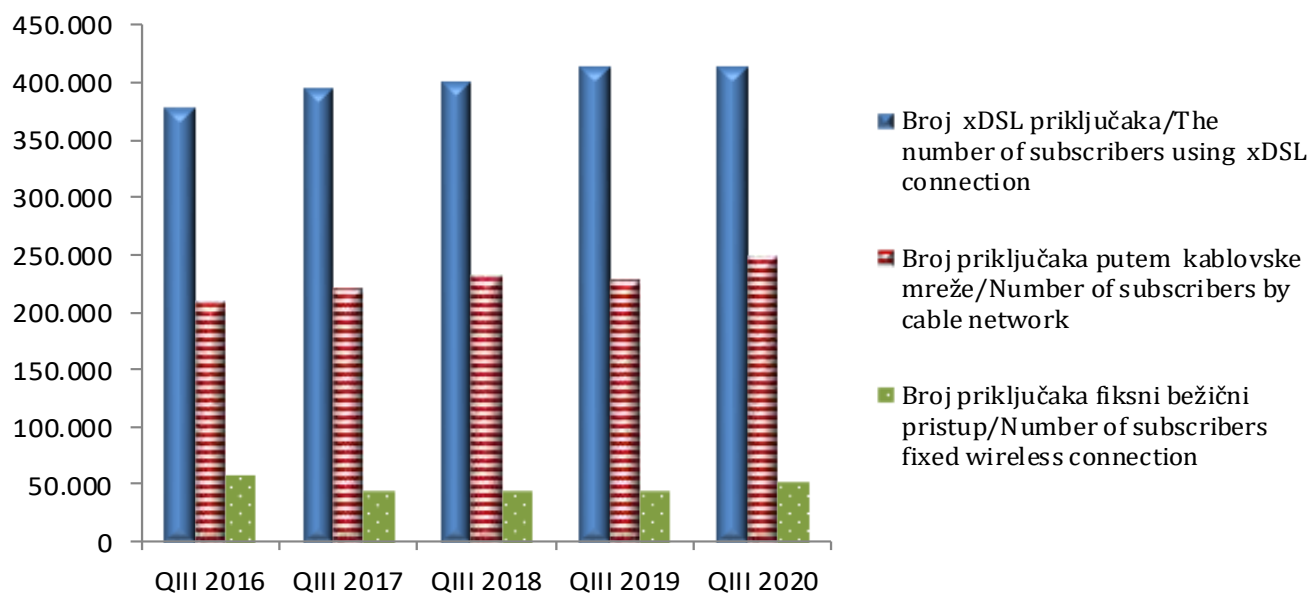
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

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.

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.

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).

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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