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GODINA/YEAR XIII

SARAJEVO, 31.07.2023.

BROJ/NUMBER 1

INFORMACIJSKO DRUŠTVO

INFORMATION SOCIETY

TELEKOMUNIKACIJSKA OPREMA, MREŽA I USLUGE, BIH, 2022.

TELECOMMUNICATIONS EQUIPMENT, NETWORK AND SERVICES, BIH, 2022.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera u 2022. godini iznosio 505 563 što predstavlja pad od 7,1% u odnosu na 2021. godinu.

Total number of fixed telephone lines of dominant operators in 2022 was 505 563 which represents a decreased of 7.1% compared to the 2021 year.

Ukupan broj vlastitih pretplatnika alternativnih operatera u 2022. godini iznosio je 145 333, što pokazuje pad od 0,2% u odnosu na prethodnu godinu.

The total number of own subscribers of alternative operators in the year of 2022 was 145 333 which shows an decreased of 0.2% compared to previous year.

Ukupni promet fiksne telefonske mreže u 2022. godini iznosio je 1 423 739 591 minuta, što pokazuje rast od 23,5% u odnosu na 2021.

The total traffic of fixed telephone network in the year of 2022 was 1 423 739 591 minutes which shows an increased of 23.5% compared to 2021.

Ukupni domaći odlazni promet alternativnih operatera u 2022. godini iznosio je 248 693 504 minuta, što pokazuje pad od 16,6% u odnosu na prethodnu godinu.

The total outgoing domestic traffic alternative operators in the year of 2022 was 248 693 504 minutes minutes which shows an decreased of 16.6% compared to previous year.

Broj pretplatnika mobilne mreže u 2022. godini iznosio je 3 811 931 što predstavlja rast od 2,2% u odnosu na prethodnu godinu.

The number of mobile telephone subscribers in the year of 2022 was 3 811 931 which represents a increased of 2.2% compared to previous year.

Ukupni odlazni promet mobilne mreže u 2022. godini iznosio 2 595 648 461, što pokazuje pad od 0,9% u odnosu na prethodnu godinu.

The total traffic of mobile telephone network in the year of 2022 was 2 595 648 461 which shows an decreased 0.9% compared to the previous year.

Broj poslanih SMS poruka u 2022. godini manji je za 9,6%, u odnosu na 2020. godinu.

Number of SMS messages sent in the 2022 year decreased by 9.6%, compared to the 2021 year.

Ukupan broj pretplatnika fiksnog interneta u 2022. godini iznosio je 875 521 što pokazuje rast od 9,7% u odnosu na prethodnu godinu.

Total number of fixed Internet subscribers in the year of 2022 was 875 521 which shows an increased of 9.7% compared to previous year.

Broj pretplatnika mobilnog interneta putem standardnog mobilnog širokopolasnog pristupa u 2022. godini iznosio je 2 081 977 što predstavlja rast od 14,6% u odnosu na 2021. godinu.

Number of subscribers of mobile Internet via a standard mobile broadband access in the year of 2022 was 2 081 977 which represents an increased of 14.6% compared to the 2021 year.

**TELEKOMUNIKACIJSKI
INDIKATORI¹**

TELECOMMUNICATION INDICATORS

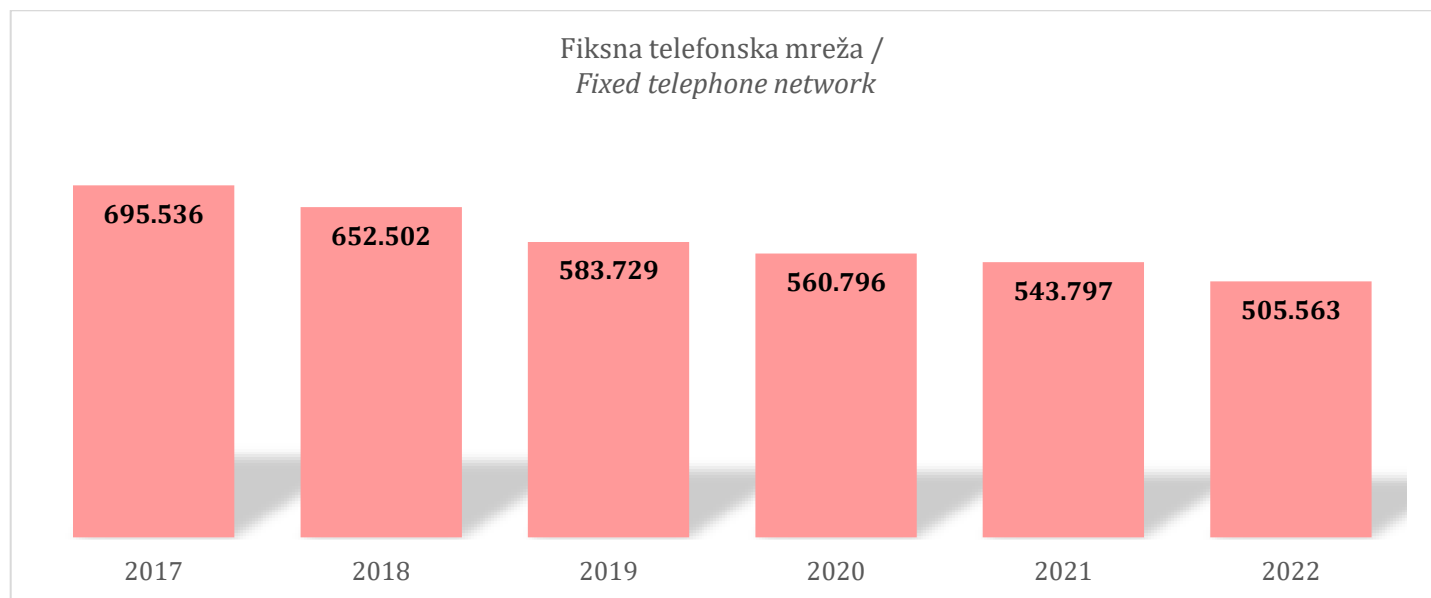
T.1. Fiksna telefonska mreža

T.1 Fixed telephone network

	2022.	
Ukupan broj aktivnih fiksnih telefonskih linija incumbent operatera¹	505.563	Total number of fixed telephone lines of Incumbent operators
Broj aktivnih analognih linija- PSTN linije	230.130	<i>Number of active analog lines- PSTN lines</i>
Broj ISDN linija izraženo u B kanalima	18.114	<i>Number of ISDN lines (expressed in B channels)</i>
Broj pretplata putem fiksne bežične petlje (CLL ili WLL)	10.699	<i>CLL subscriptions</i>
Broj pretplata IP telefonije	246.185	<i>Number of IP telephone subscribers³</i>
Ukupan broj javnih telefonskih govornica	435	<i>Number of public payphones</i>
Broj linija pretplatnika fizičkih osoba	368.074	<i>Number of main lines which are residential (analog and B channels)</i>
Broj linija pretplatnika pravnih osoba	137.054	<i>Number of main lines which are business (analog and B channels)</i>
Broj alternativnih operatera fiksne telefonije ²	12	<i>Total number of alternative operators</i>
Ukupan broj vlastitih pretplatnika alternativnih operatera	145.333	<i>Alternative operators -Number of Direct Access Subscribers</i>
Ukupan broj pretplatnika alternativnih operatera sa neizravnim pristupom (CS- izbor operatera)	173	<i>Alternative operators -Number of Indirect Access Subscribers (CPS, CS, etc.)</i>
Ukupan broj prenesenih fiksnih brojeva sa 31.12. 2021. godine	105.516	<i>The total number off transferred fixed numbers (with 31.12.2021 year)</i>

G.1 Fiksna telefonska mreža-ukupan broj aktivnih fiksnih telefonskih linija incumbent operatera

G.1 Fixed telephone network- Total number of fixed telephone lines of incumbent operators



¹ Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)

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

¹ Termin incumbent operateri se odnosi na operatore koji su prije liberalizacije tržišta imali državni (zakonski) monopol; u Bosni i Hercegovini su: BH Telecom, Telekom Srpske i HT Mostar.

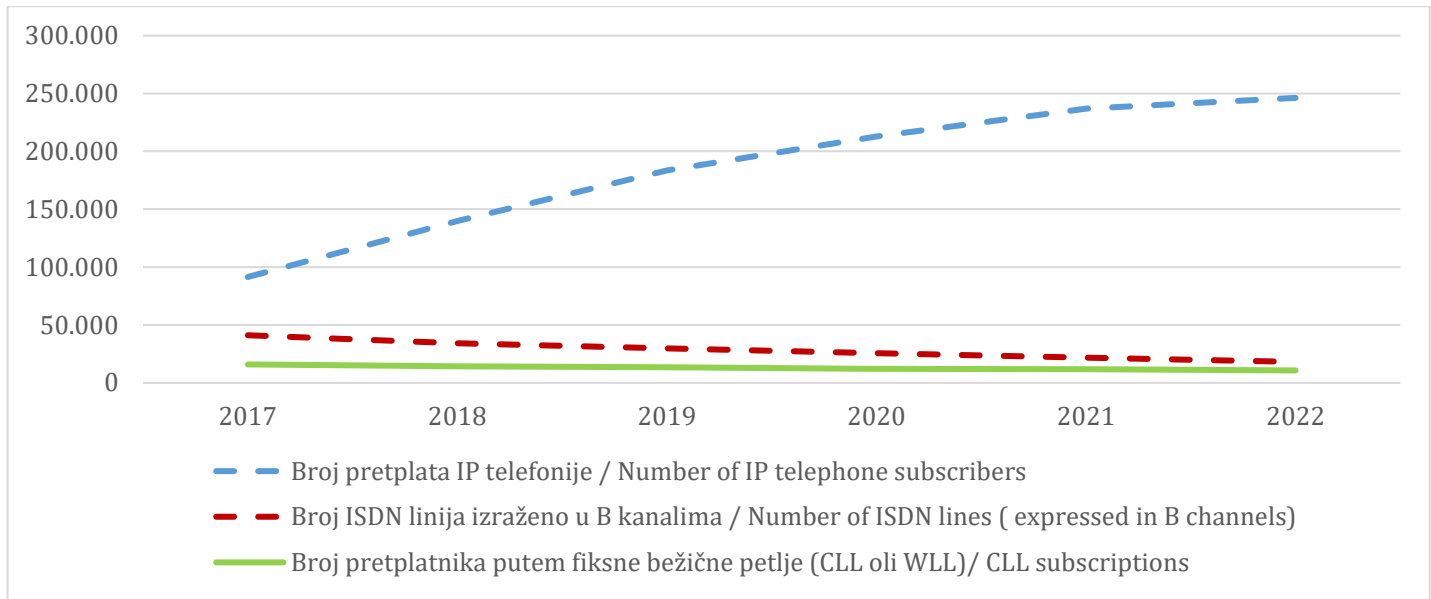
The term incumbent refers to operators who had public (legal) monopoly before liberalization markets; in Bosnia and Herzegovina these are: BH Telecom, Telekom Srpske and HT Mostar.

¹ Termin alternativni operateri se odnosi na operatore koji su se na tržištu pojavili nakon početka liberalizacije tržišta i korisnici su dozvole za obavljanje djelatnosti davatelja nepokretnih javnih telefonskih usluga.

The term alternative operators refers to operators that have appeared on the market after the start of the liberalization of the market and customers are licensees for providers of fixed public telephone services.

G.2 Fiksna telefonska mreža

G.2 Fixed telephone network



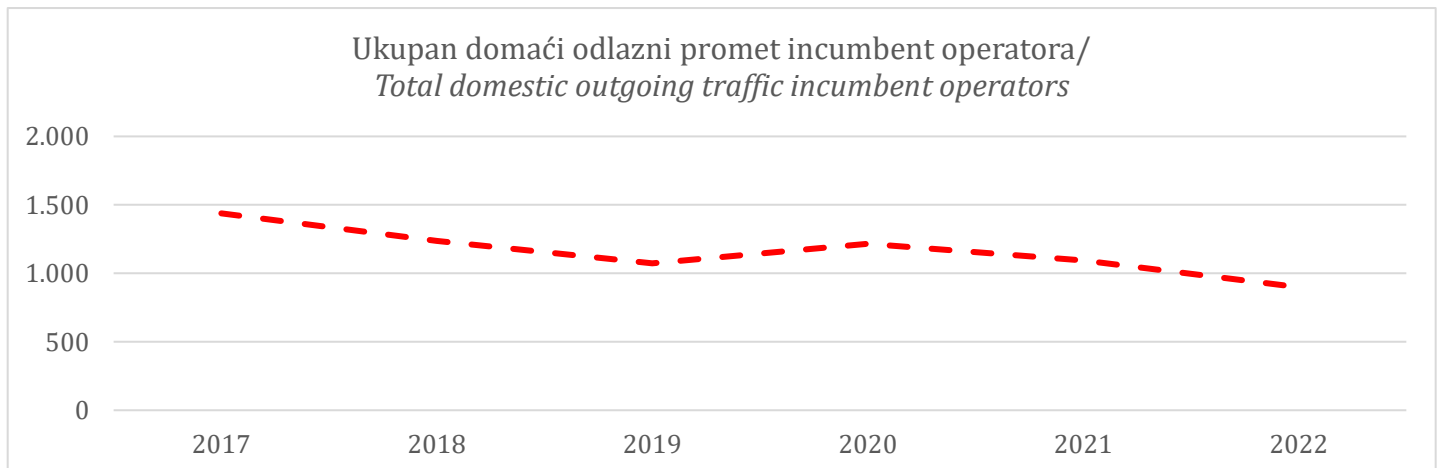
T.1.1. Promet ostvaren putem fiksne telefonske mreže, incumbent operateri

T.1.1 Traffic accomplished via fixed telephone network, Incumbent operators

	2022.	
Ukupan promet incumbent operatera (u minutama)	1.423.739.591	Total traffic incumbent operators (in minutes)
Ukupni domaći odlazni promet (u minutama)	899.238.751	Outgoing domestic traffic SMP operators (in minutes)
Odlazni lokalni i međumjesni promet unutar vlastite fiksne mreže (u minutama)	623.700.801	Outgoing local and trunk telephone traffic- traffic inside same network group (in minutes)
Odlazni promet prema drugim fiksnim mrežama u BiH (u minutama)	144.421.234	Outgoing traffic to other fixed networks in BiH (in minutes)
Odlazni promet prema mobilnim mrežama u BiH (u minutama)	131.116.716	Outgoing traffic to mobile networks in BiH (in minutes)
Međunarodni odlazni telefonski promet (u minutama)	17.802.361	Interantional outgoing fixed telephone traffic (in minutes)
Međunarodni dolazni telefonski promet (u minutama)	53.707.957	Interantional incoming fixed telephone traffic (in minutes)
Dial-up internet promet (u minutama)	452.990.522	Dial up internet traffic (in minutes)

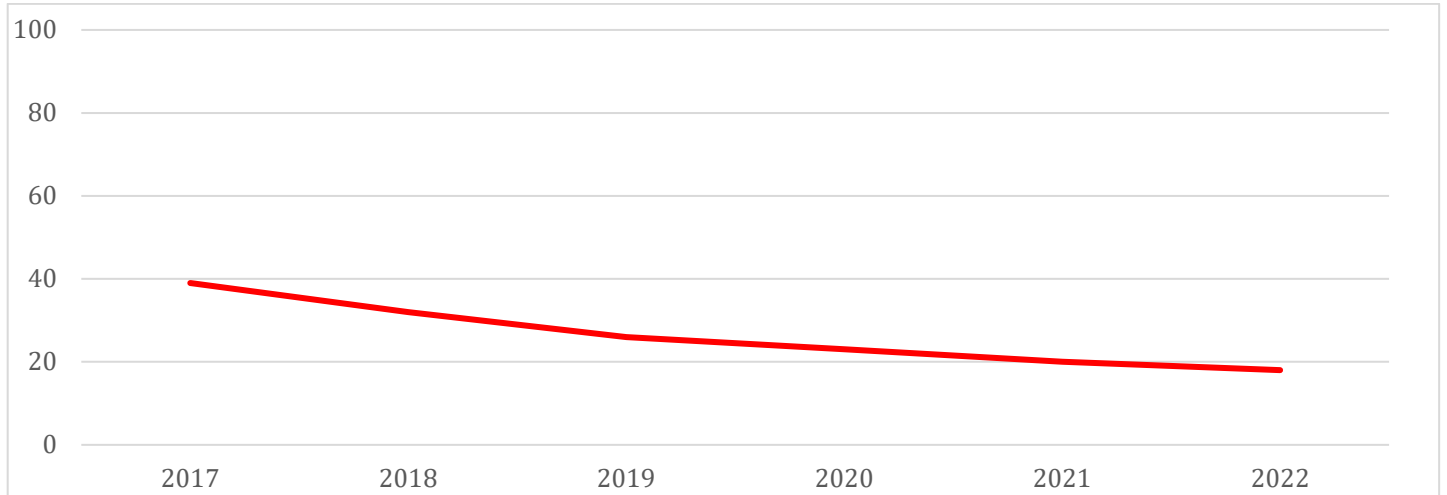
G.3. Ukupan domaći odlazni promet incumbent operatera (u milijunima minuta)

G.3 Total domestic outgoing traffic incumbent operators (in millions minutes)



G.4. Ukupan međunarodni odlazni promet incumbent operatora (u milijunima minuta)

G.4 Total Interantional outgoing traffic incumbent operators (in millions minutes)



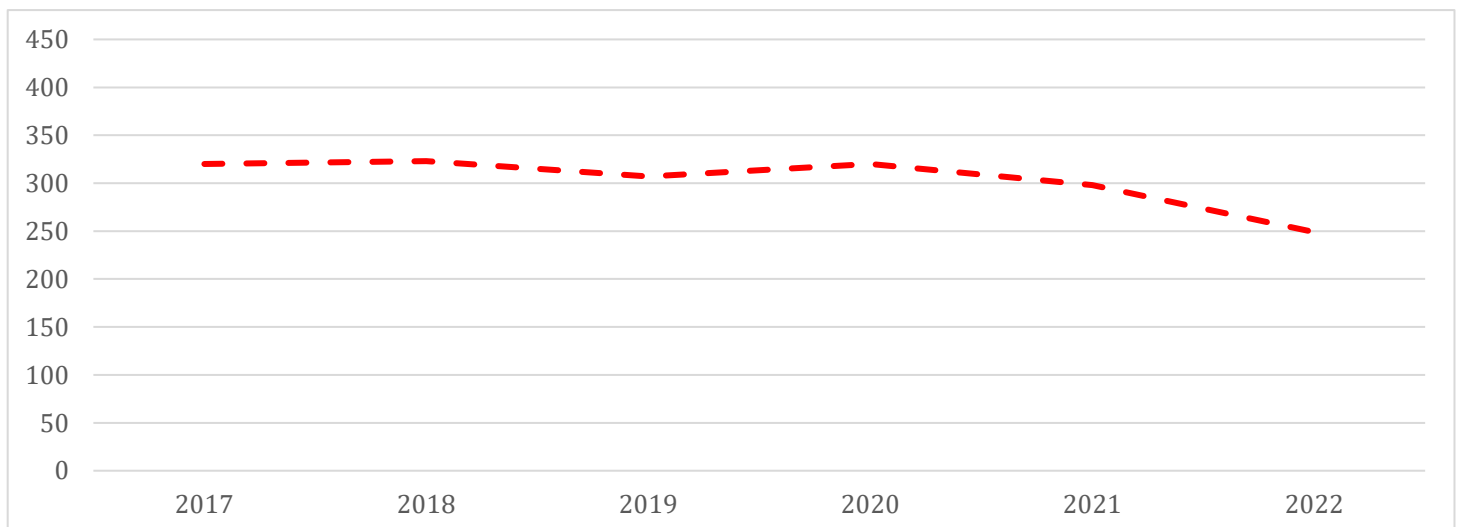
T.1.2. Promet (koji su ostvarili altenativni operatori)

T.1.2 Traffic (realised by alternative operators)

	2022.	
Ukupni domaći odlazni promet alternativnih operatora (u minutama)	248.693.504	Outgoing domestic traffic alternative operators (in minutes)
Međunarodni odlazni telefonski promet alternativnih operatora (u minutama) ⁴	3.790.041	International outgoing fixed telephone traffic alternative operators (in minutes) ⁵
Međunarodni dolazni telefonski promet alternativnih operatora (u minutama) ⁵	6.943.074	Interantional incoming fixed telephone traffic alternative operators (in minutes) ⁶
Međunarodni dolazni promet koji je došao preko alternativnih operatora i završio u fiksnim mrežama dominantnih operatora (u minutama)	18.283.775	International incoming traffic that came through the alternative operators and ended in the fixed networks of dominant operators (in minutes)
Međunarodni dolazni promet koji je došao preko alternativnih operatora i završio u mobilnim mrežama dominantnih operatora (u minutama)	15.530.427	International incoming traffic that came through the alternative operator and ended in the mobile networks of dominant operators (in minutes)

G.5. Ukupan domaći odlazni promet alternativnih operatora (u milijunima minuta)

G.5 Total domestic outgoing traffic alternative operators (in millions minutes)

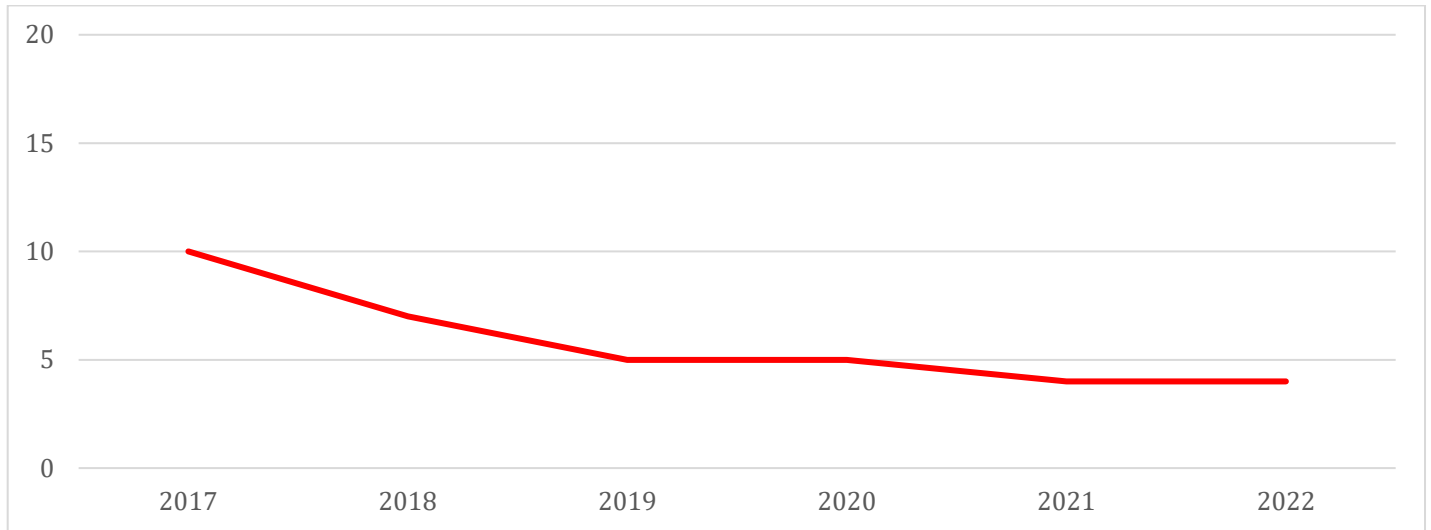


⁴ Promet vlastitih pretplatnika i pretplatnika koji koriste neizravni pristup (CS, CPS, telefonska kartica) koji se upućuje ka fiksnim i mobilnim mrežama u inozemstvu.
Traffic of own subscribers and subscribers who use intermediate access (CS, CPS, phone cards) that is being redirected toward fix and mobile networks abroad.

⁵ Međunarodni promet koji dolazi u vlastitu mrežu operatora.
International traffic that uses the own network of telephone provider

G.6. Ukupan međunarodni odlazni promet alternativnih operatora (u milijunima minuta)

G.6 Total Interantional outgoing traffic alternative operators (in millions minutes)



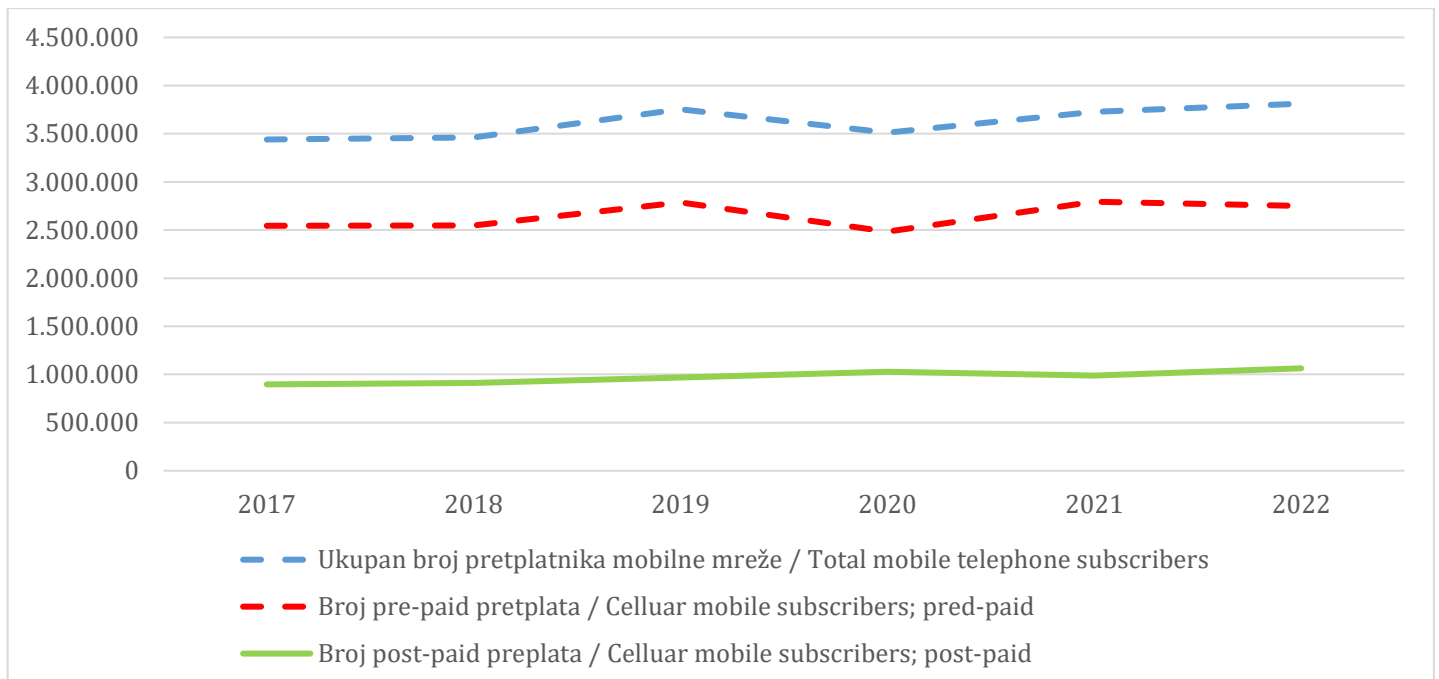
T.2. Mobilna telefonska mreža

T.2 Mobile Telephone Network

	31.12.2022.	
Ukupan broj pretplatnika mobilne mreže	3.811.931	Total mobile telephone subscribers
Broj pre-paid pretplata	2.748.308	Cellular mobile subscribers: pre-paid
Broj post-paid pretplata	1.063.623	Cellular mobile subscribers: post-paid

G.7. Ukupan broj pretplatnika mobilne mreže

G.7 Total mobile telephone subscribers



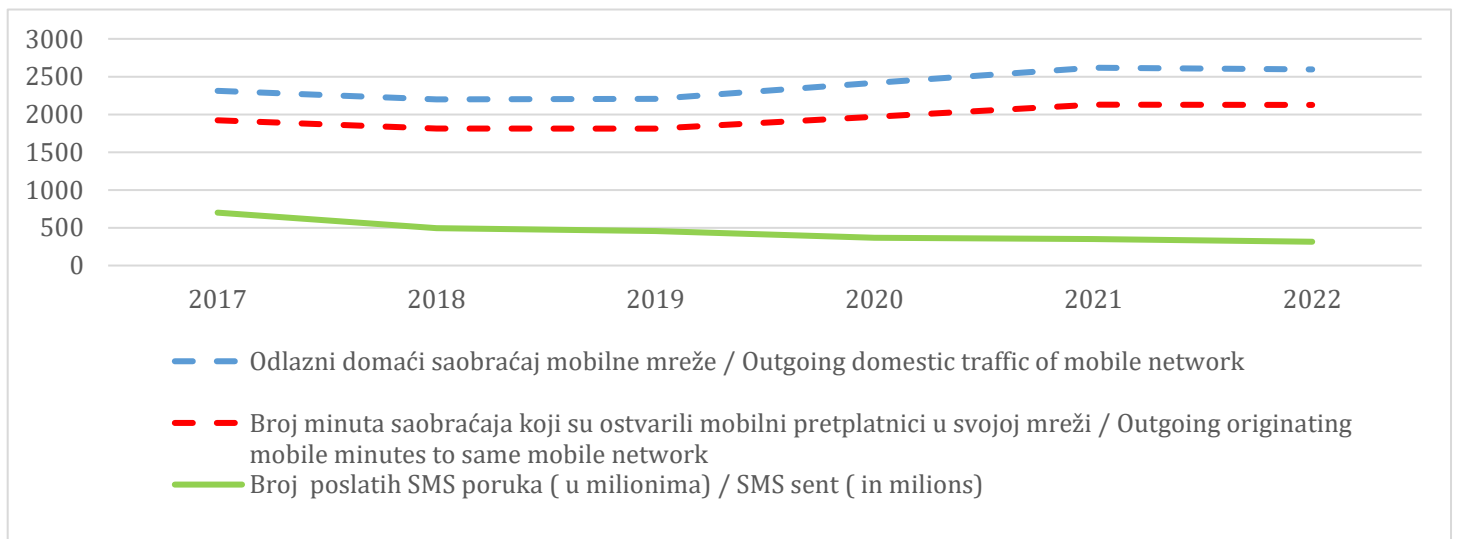
T.2.1. Promet ostvaren putem mobilne mreže

T.2.1 Traffic accomplished via mobile cellular network

	2022.	
Ukupni odlazni promet mobilne mreže u minutama (domaći promet), od toga:	2.595.648.461	Total Outgoing traffic of mobile network in minute (domestic traffic), of which:
Broj minuta prometa koji su ostvarili mobilni pretplatnici u svojoj mreži	2.126.352.396	Outgoing/originating mobile minutes to samemobile network.
Broj minuta prometa koji su ostvarili mobilni pretplatnici prema drugim mobilnim mrežama u BiH	300.083.346	Outgoing/originating mobile minutes to other mobile networks in BiH.
Broj minuta prometa mobilna - fiksna	169.212.719	Outgoing mobile minutes to fixed networks
Međunarodni odlazni promet (u minutama)	27.905.825	International outgoing mobile traffic (in minutes)
Međunarodni dolazni promet (u minutama)	137.445.860	International incoming mobile traffic (in minutes)
Broj poslanih SMS poruka	315.290.190	SMS sent
Broj poslanih MMS poruka	1.374.926	MMS sent

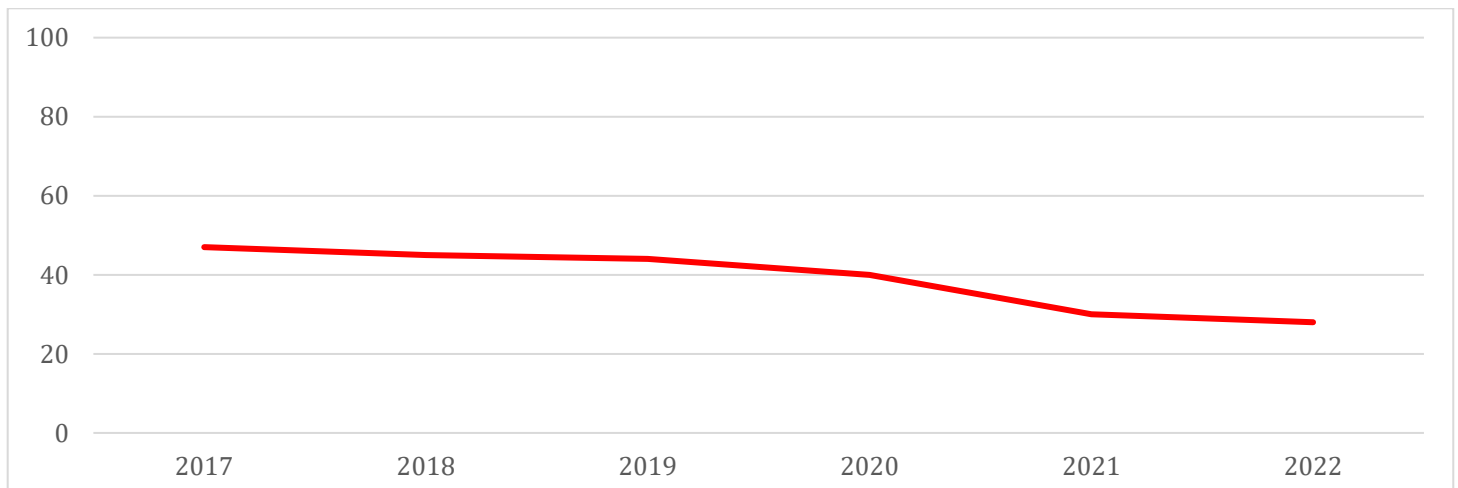
G.8. Promet ostvaren putem mobilne mreže (u milijunima minuta)

G.8 Traffic accomplished via mobile cellular network (in millions minutes)



G.9. Međunarodni odlazni promet (u milijunima minuta)

G.9 International outgoing mobile traffic (in millions minutes)



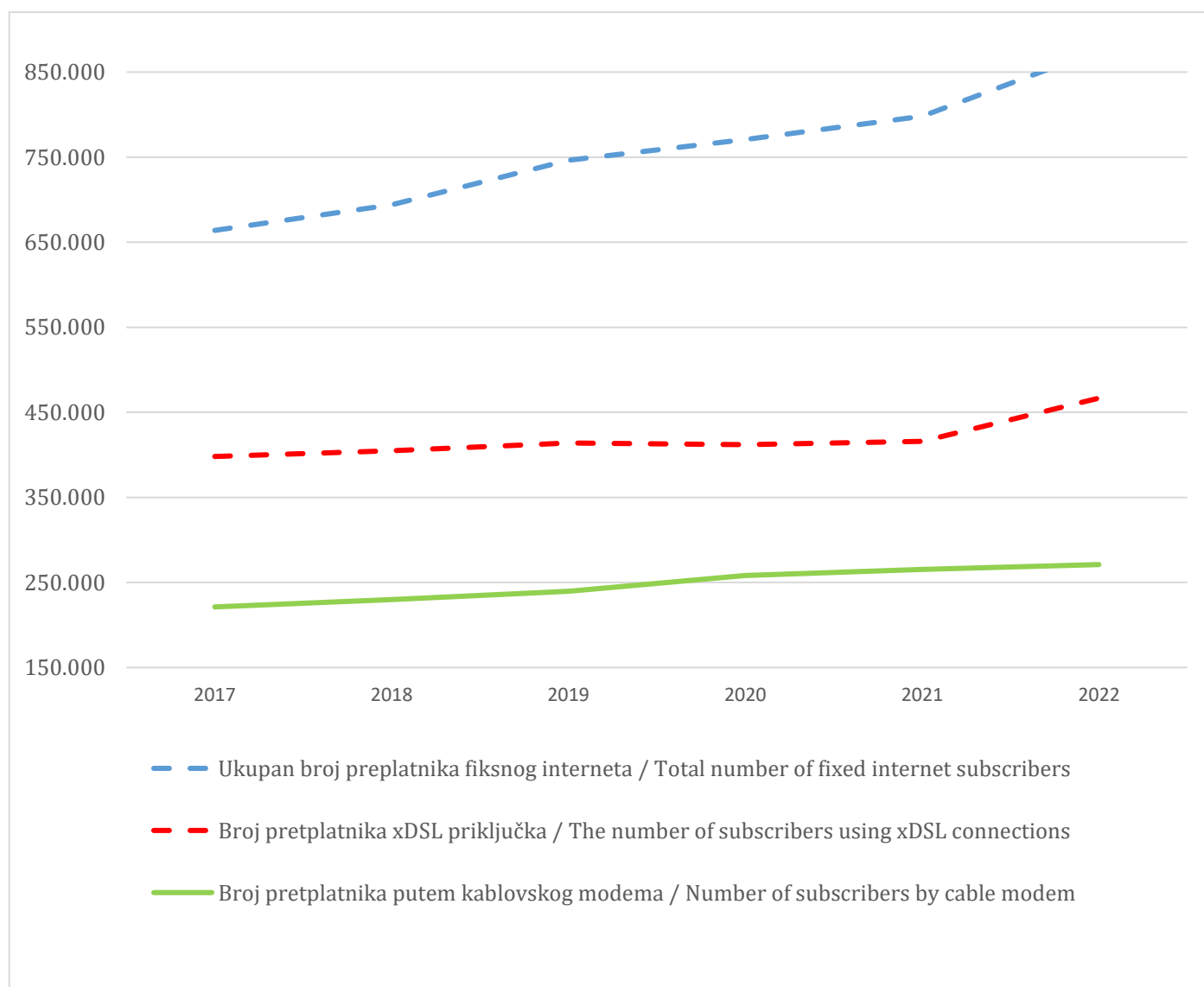
T.3. Fiksni internet

T.3 Fixed internet

	2022.	
Broj ISP-ova	60	<i>Number of ISPs</i>
Ukupan broj pretplatnika fiksnog interneta	875.521	<i>Total number of fixed internet subscribers</i>
Broj pretplatnika putem xDSL priključaka	466.698	<i>The number of subscribers using xDSL connection</i>
Broj pretplatnika putem kablovskog modema	271.023	<i>Number of subscribers by cable modem</i>
Broj pretplatnika putem FWA (fiksni bežični pristup) priključaka	63.068	<i>Number of subscribers by FWA (fixed wireless) connection</i>
Broj pretplatnika putem iznajmljenih linija	2.302	<i>The number of subscribers via leased lines</i>
Broj pretplatnika putem FTTH priključaka	72.407	<i>The number of subscribers via FTTH connection</i>
Broj pretplatnika putem ostalih tehnologija	23	<i>The number of subscribers using other technologies</i>

G.10 Fiksni internet

G.10 Fixed internet



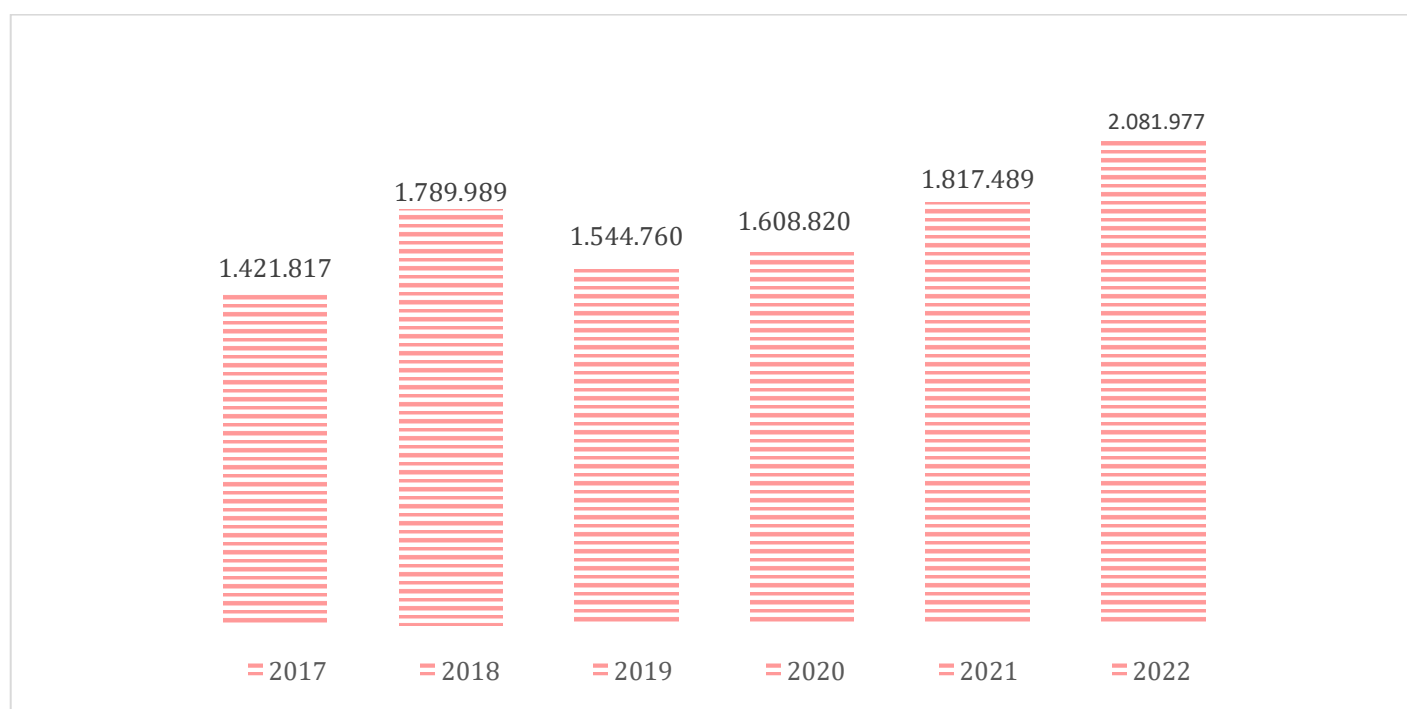
T.4. Mobilni internet

T.4 Mobile internet

	2022.	
Broj pretplatnika mobilnog interneta putem standardnog mobilnog širokopojasnog (<i>broadband</i>) pristupa	2.081.977	<i>The number of subscribers of mobile Internet via a standard mobile broadband access</i>
Broj pretplatnika mobilnog interneta putem namjenskog širokopojasnih (<i>broadband</i>) pristupa	16.413	<i>The number of subscribers of mobile Internet via dedicated broadband access</i>

G.11. Broj pretplatnika mobilnog interneta putem standardnog mobilnog širokopojasnog (*broadband*) pristupa

G.11 The number of subscribers of mobile Internet via a standard mobile broadband access



METODOLOŠKA OBJAŠNENJA

Izvor prikupljanja podataka

Podaci o telekomunikacijskim uslugama preuzeti su od Regulatorne agencije za komunikacije Bosne i Hercegovine (RAK BiH).

Obuhvat

Telekomunikacijske usluge obuhvataju promet ostvaren u fiksnoj i mobilnoj mreži.

Unutarnji promet u fiksnoj ili mobilnoj mreži obuhvata ukupno ostvaren promet unutar vlastite fiksne ili mobilne mreže prema drugim fiksnim i mobilnim mrežama.

Međunarodni promet obuhvata ukupno ostvaren promet u fiksnim i mobilnim mrežama koji počinje unutar Bosne i Hercegovine i završava izvan Bosne i Hercegovine.

DEFINICIJE

Telekomunikacijska usluga je usluga prijenosa, emitiranja ili primanja znakova, signala, pisanog teksta, slika, govora i zvukova ili priopćenja bilo koje prirode koja se pruža žičnim, svjetlosnim, bežičnim ili drugim elektromagnetskim sustavima uključujući omogućavanje uporabe tih sustava kao cjeline ili djelomično davanjem u najam, prodajom ili na neki drugi način.

Priključak je fizička mrežna priključna točka preko koje korisnik pristupa javnoj komunikacijskoj 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 širokopoljnim internet uslugama realiziran putem optičkog vlakna.

xDSL (digitalna pretplatnička linija) je širokopoljni pristup internet uslugama realiziran putem upredene bakarne parice. Tu spadaju širokopoljne tehnologije kao što su ADSL, VDSL, HDSL, SDSL, itd.

Utrošene minute u fiksnoj i mobilnoj mreži obuhvataju ukupni promet ostvaren u unutarnjem i međunarodnom prometu izražen u jedinici vremena – minutama.

Fiksna mreža je telekomunikacijska mreža kod koje je međusobna povezanost svih elemenata ostvarena žično.

Mobilna mreža je telekomunikacijska mreža kod koje je međusobna povezanost nekih elemenata ostvarena bežično i time se omogućava uspostavljanje veza i u uvjetima 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, glazba).

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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