



**STATISTICS REPORT FOR TELECOM, MEDIA
AND BROADCASTING SECTOR AS OF THE
THIRD QUARTER OF THE YEAR 2020**

Disclaimer: Information provided in this report is subject to alteration in case of any revisions or updates deemed necessary

TABLE OF CONTENTS

TABLE OF CONTENTS	i
LIST OF FIGURES	iii
REPORT SUMMARY	iv
1. MOBILE TELEPHONE SERVICES	1
1.1. Mobile subscriptions	1
1.2. Market share for mobile (SIM cards) Subscriptions	2
1.3. Mobile Voice, and SMS tariff structure	3
1.4. Mobile traffic statistics	4
1.4.1. Mobile outgoing and incoming voice traffic	4
1.4.2. Outgoing and incoming SMS traffic	6
2. ROAMING	7
2.1. Roaming subscribers	7
2.2. Roaming traffic	8
3. FIXED TELEPHONE SERVICES	9
3.1. Fixed telephone subscriptions	9
3.2. Fixed telephone traffic	10
3.3. Fixed telephone service tariff	11
4. INTERNET SERVICE PROVISION	12
4.1. Internet subscriptions	12
4.2. International internet bandwidth	14
4.3. Mobile internet tariff	15
5. TELECOMMUNICATION REVENUES AND INVESTMENT	16
6. EMPLOYMENT IN TELECOMMUNICATION SECTOR	17
7. MEDIA AND BROADCASTING	19
7.1. Licensed media operators	19
7.2. Pay TV subscriptions	19
7.3. Decoders sold	20
7.4. Pay TV staff	20

LIST OF TABLES

Table 1: Key ICT indicators	iv
Table 2: Comparison of active mobile subscriptions per operator by contract type.....	1
Table 3: Mobile telephone voice tariff (in Frw) per minute per operator as of September 2020	3
Table 4: SMS tariff structure (in Frw) as of September 2020	4
Table 5: Outgoing and incoming traffic (in minutes) per operator as of the 3 rd quarter 2020	4
Table 6: Average minutes per call per operator in the 3 rd quarter 2020.....	5
Table 7: SMS traffic (in numbers) as of the third quarter 2020	6
Table 8: International roaming subscribers as of the third quarter 2020	7
Table 9: Outgoing and incoming roaming traffic (in minutes) per operator as of the third quarter 2020.....	8
Table 10: Fixed telephone subscriptions as of September 2020	9
Table 11: Outgoing mobile and fixed telephone incoming traffic	11
Table 12: Fixed telephone service tariff structure (in Frw) per minute as of September 2020.....	11
Table 13: Internet subscriptions per category as of September 2020	12
Table 14: Fixed internet subscriptions by speed	13
Table 15: Fixed internet subscriptions by technology	14
Table 16: International internet bandwidth (Mbps) per operator as of the third quarter 2020.....	14
Table 17: Trend of quarterly revenues (Frw) from Q4 2019 to Q3 2020.....	16
Table 18: Trend of additional investment (Frw) made in the third quarter 2020.....	16
Table 19: Number of staff employed in telecommunication sectors as of September 2020	17
Table 20: Trends of Licensed media operators from September 2019 to September 2020	19
Table 21: Number of Pay TV subscribers as of September 2020	19
Table 22: Trend of decoders sold from 3 rd quarter 2019 to 3 rd quarter of 2020.....	20
Table 23: Number of staff employed in Pay TV operators as of September 2020	20

LIST OF FIGURES

Figure 1: Trend of mobile subscriptions and penetration rate from Q3 2019 to Q3 2020	1
Figure 2: Market share trends for mobile (SIM cards) subscriptions per operator	2
Figure 3: Trend of average mobile voice tariff (in Frw) per minute from 2014 to Sep-2020.....	3
Figure 4: Outgoing on net, off net and international voice traffic market share as of the 3 rd quarter 2020.....	5
Figure 5: Outgoing on net, off net and international SMS traffic market share as of the third quarter 2020.....	6
Figure 6: Trend of roaming subscribers from Q2 2019 to Q3 2020	7
Figure 7: Trend of fixed telephone subscriptions and penetration rate	9
Figure 8: Market share trends for fixed telephone subscriptions per operator as of Sep-2020.....	10
Figure 9: Trend of internet subscriptions and internet subscriptions per 100 inhabitants	13
Figure 10: Trend of equipped international internet bandwidth (Mbps) from Q3 2019 to Q3 2020	14
Figure 11: Standard mobile internet tariff (Frw/MB) as of September 2020.....	15
Figure 12: Telecom staff by gender as of September 2020	18

REPORT SUMMARY

This report compiles the information from telecom operators, 4G wholesaler, Internet Service Providers (ISPs), Media and Broadcasting operators as per their license obligations for the period from 1st July to 30th September 2020.

Table 1: Key ICT indicators

INDICATORS	Q2 2020	Q3 2020	% change between Q3 and Q2
SUBSCRIPTIONS			
Mobile subscriptions	9,860,169	10,505,867	6.55
Fixed subscriptions	11,626	11,660	0.29
Mobile (SIM) penetration rate (%)	77.87	83.0	6.55
Fixed telephone penetration rate (%)	0.092	0.092	0.29
VOICE TRAFFIC IN MINUTES			
On-Net Voice Traffic	5,823,650,017	6,570,447,660	12.82
Outgoing Off-Net Voice Traffic	62,856,356	81,947,683	30.37
International Outgoing mobile voice traffic	11,763,561	11,033,937	-6.20
International Incoming mobile voice traffic	15,346,164	17,442,260	13.66
ROAMING SUBSCRIBERS			
Roaming-in (Foreign subscribers)	1,568,233	1,584,626	1.05
Roaming-Out (Own subscribers)	717,499	833,800	16.21
ROAMING TRAFFIC			
Total incoming minutes for roamers	48,746,355	43,931,710	-9.88
Total outgoing minutes for roamers	1,807,162	1,808,100	0.05
SMS TRAFFIC			
On-net SMS	925,664,140	983,382,935	6.24
Outgoing Off-net SMS	7,244,261	6,605,105	-8.82
Outgoing International SMS	383,000	388,259	1.37
Incoming International SMS	652,334	363,532	-44.27
DATA/INTERNET			
Internet subscriptions	7,886,771	7,919,387	0.41
Internet subscriptions per 100 inhabitants	62.3	62.5	0.41
Equipped international internet bandwidth (Mbps)	111,870	130,383	16.55
Used international internet bandwidth (Mbps)	53,351	58,018	8.75
BROADCASTING			
Number of Television stations	19	19	0.00
Number of Radio FM stations	34	35	2.94
Active Pay TV subscribers	59,694	62,523	4.74
Registered Pay TV subscribers	302,902	304,643	0.57

Source: Operators' reports, September 2020

1. MOBILE TELEPHONE SERVICES

1.1. Mobile subscriptions

As of September 2020, the operators offering mobile telephone services were MTN Rwanda Ltd and Airtel Rwanda Ltd. The number of active mobile subscriptions reported at the end of September 2020 were 10.5 million SIM cards.

Table 2: Comparison of active¹ mobile subscriptions per operator by contract type

Name of operator	September 2020			June 2020			Quarterly Variation
	Postpaid	Prepaid	Total	Postpaid	Prepaid	Total	
MTN Rwanda Ltd	78,542	6,325,983	6,404,525	63,206	5,831,137	5,894,343	8.7%
Airtel Rwanda Ltd	4,361	4,096,981	4,101,342	2,814	3,963,012	3,965,826	3.4%
Total	82,903	10,422,964	10,505,867	66,020	9,794,149	9,860,169	6.5%

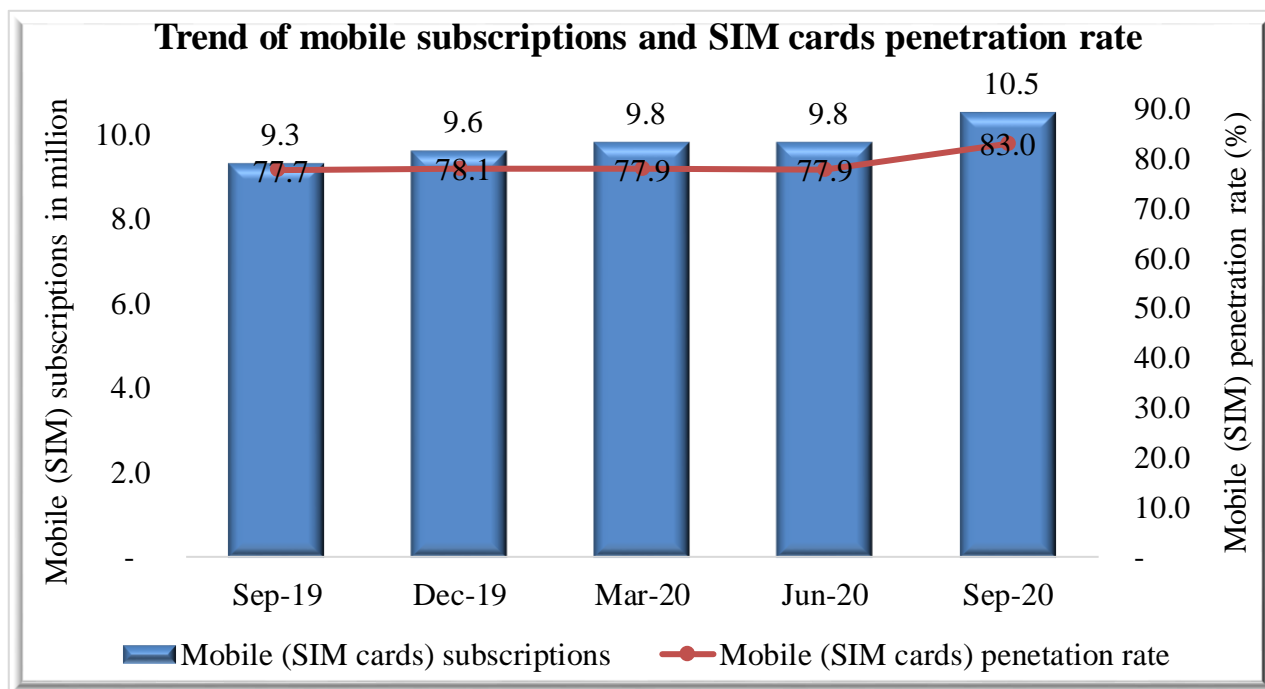
Source: Operators' reports, September 2020

Figure 1: Trend of mobile subscriptions and penetration rate² from Q3 2019 to Q3 2020

As of September 2020, the number of active mobile (SIM cards) subscriptions in the country increased up to 10.5 million from 9.3 million reported at the end of September 2019. During this period under review, the active mobile-cellular telephone (SIM cards) subscriptions registered for every 100 people increased to 83.0% from 77.7% recorded at the end of third quarter of 2019.

¹ Active mobile subscriptions refer to the number of SIM cards that have generated revenues to the operator within the last 90 days.

² Mobile (SIM cards) penetration rate (%) is computed with reference to the sum of active SIM cards over the Rwandan population as projected by National Institute of Statistics of Rwanda.

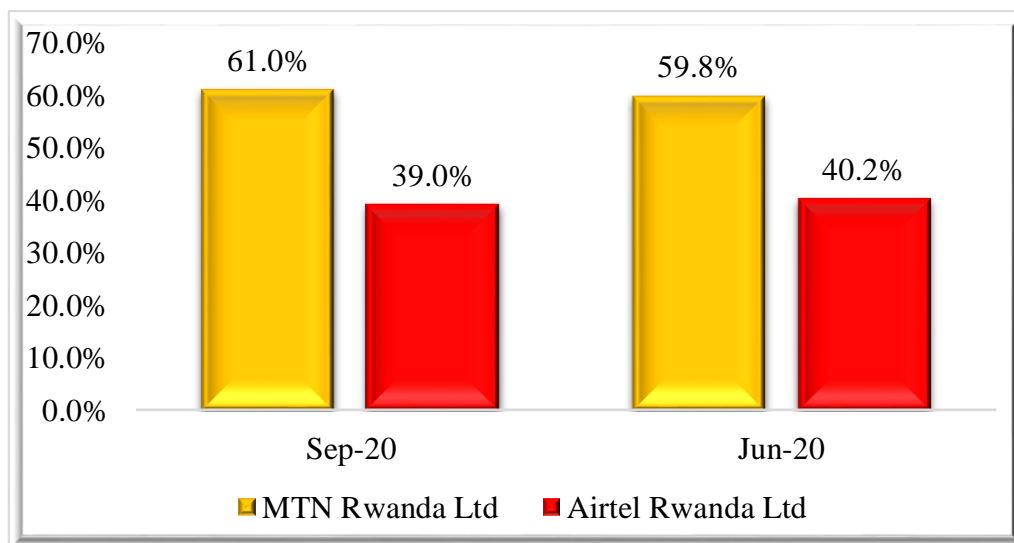


Source: Operators' reports, September 2020

1.2. Market share for mobile (SIM cards) Subscriptions

At the end of the third quarter of 2020, the mobile subscriptions market shares for MTN Rwanda Ltd increased by 1.2 percentage points up to 61.0 per cent, whereas that for Airtel Rwanda Ltd dropped by the same margin reaching 39.0 per cent.

Figure 2: Market share trends for mobile (SIM cards) subscriptions per operator



Source: Operators' reports, September 2020

1.3. Mobile Voice, and SMS tariff structure

During the period under review, the average tariff for calling by mobile phone within a telecom operator was 40 Frw while also 40 Frw was between telecom operators, 70 Frw for One Area Network, and 50.5 Frw to call in US, Canada, China, and India.

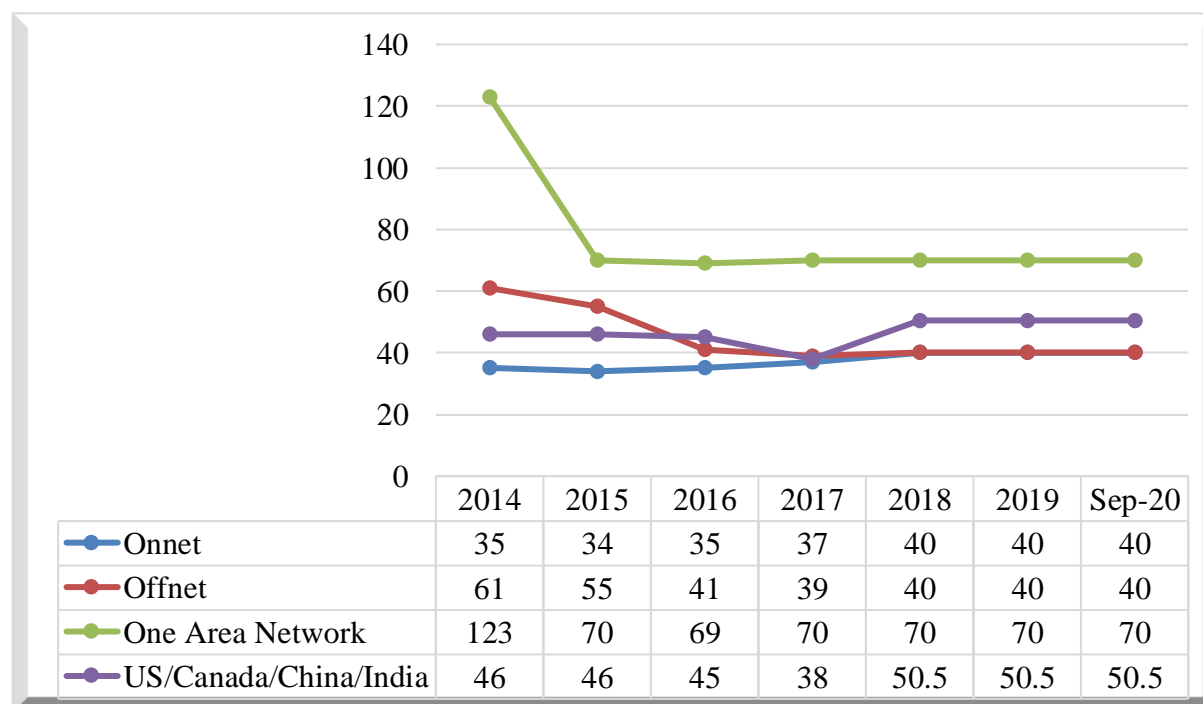
Table 3: Mobile telephone voice tariff (in Frw) per minute per operator as of September 2020

Destination	MTN Rwanda Ltd	Airtel Rwanda Ltd	Average
Onnet	45	35	40.0
Offnet	45	35	40.0
One Area Network	70	70	70.0
US/Canada/China/India	51	50	50.5

Source: Operators' reports, September 2020

Figure 3: Trend of average mobile voice tariff (in Frw) per minute from 2014 to Sep-2020

The standard voice tariff for mobile networks remained unchanged since 2018 whereby the average tariff for calling by mobile telephone within a telecom operator was 40 Frw, 40 Frw between telecom operators, 70 Frw to call in One Area Network Countries, and 50.5 Frw to call in US, Canada, China, and India.



Source: Operators' reports, September 2020

Table 4: SMS tariff structure (in Frw) as of September 2020

As of September 2020, the average tariff for sending a message by mobile phone within a telecom operator was 8.5 Frw, whereas 20.5 Frw was between telecom operators, 35.5 Frw to Uganda and Kenya, 45.0 Frw to South Sudan, and 79.5 Frw to other international countries. A subscriber on Airtel Rwanda's network can also send a short messaging text to India, Gabon, Nigeria, Tanzania, Ghana, Niger, and Malawi on 26 Frw whereas a subscriber on MTN Rwanda's Network used 80 Frw per SMS.

Destination	MTN Rwanda Ltd	Airtel Rwanda Ltd	Average
Onnet	12	5	8.5
Offnet	26	15	20.5
Uganda and Kenya	45	26	35.5
South Sudan	45	45	45.0
International	80	79	79.5

Source: Operators' reports, September 2020

1.4. Mobile traffic statistics

1.4.1. Mobile outgoing and incoming voice traffic

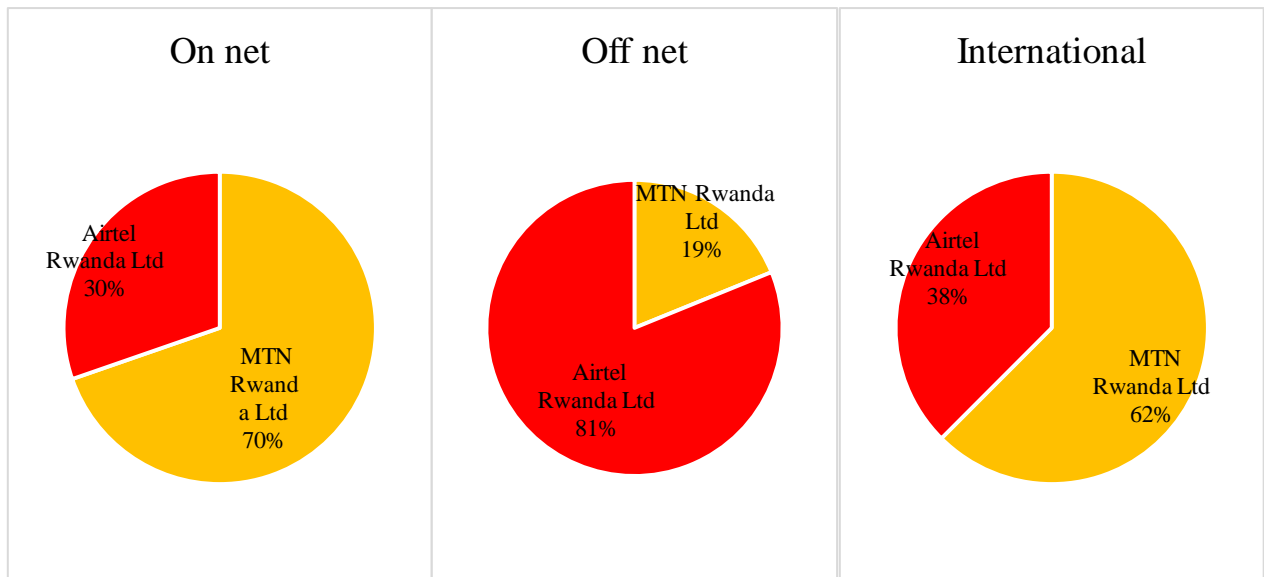
Table 5: Outgoing and incoming traffic (in minutes) per operator as of the 3rd quarter 2020

Voice traffic	MTN Rwanda Ltd	Airtel Rwanda Ltd	Total
Outgoing calls			
On net	4,574,318,582	1,989,608,908	6,563,927,490
Off net	15,386,586	66,256,741	81,643,327
International	6,854,719	4,114,459	10,969,178
Incoming calls			
International	8,128,607	9,312,844	17,441,451

Source: Operators' reports, September 2020

During this quarter under review, the total volume of minutes originating within mobile networks was 6.5 billion minutes, the total minutes originating from one mobile networks to other networks was 81.6 million minutes, and the total minutes from mobile networks to international networks was 10.9 million minutes. The number of minutes from international networks to local mobile networks was 17.4 million minutes.

Figure 4: Outgoing on net, off net and international voice traffic market share as of the 3rd quarter 2020



Source: Operators' reports, September 2020

Table 6: Average minutes per call per operator in the 3rd quarter 2020

During the third quarter 2020, the average minutes per call within mobile telecom networks was 2.7, average minutes per call to call other networks was 1.1 while the average minutes per call from Rwanda mobile networks to international networks was 1.4. Further, the average minutes per call from international networks to Rwanda mobile networks was 2.8.

Voice traffic	MTN Rwanda Ltd	Airtel Rwanda Ltd	Total
Outgoing calls			
On net	2.5	3.3	2.7
Off net	0.7	1.4	1.1
International	3.1	0.7	1.4
Incoming calls			
International	2.4	3.4	2.8

Source: Operators' reports, September 2020

1.4.2. Outgoing and incoming SMS traffic

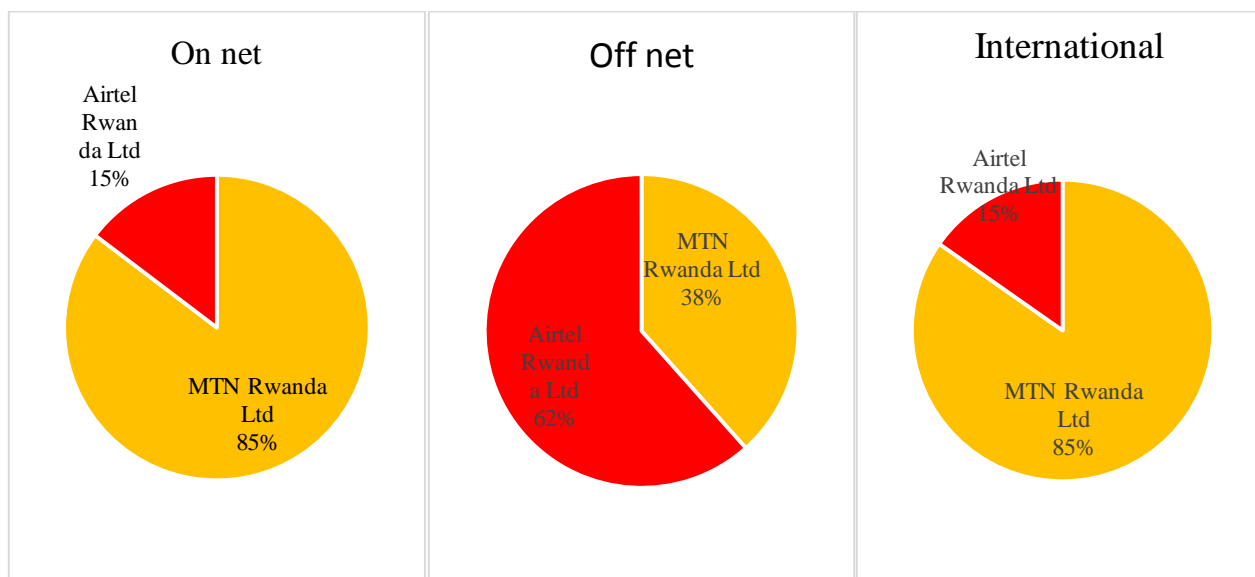
The total volume of SMS traffic originating within mobile networks was 983.3 million SMS, the total SMS traffic originating from mobile networks to other mobile networks was 6.6 million SMS and the total SMS traffic from mobile networks to international networks was 0.3 million SMS. The number of SMS from international networks to Rwanda was 0.3 million SMS.

Table 7: SMS traffic (in numbers) as of the third quarter 2020

Destination	MTN Rwanda Ltd	Airtel Rwanda Ltd	Total
Outgoing SMS			
On net	839,024,465	144,358,470	983,382,935
Off net	2,537,766	4,067,339	6,605,105
International	329,018	59,241	388,259
Incoming SMS			
International	310,808	52,724	363,532

Source: Operators' reports, September 2020

Figure 5: Outgoing on net, off net and international SMS traffic market share as of the third quarter 2020



Source: Operators' reports, September 2020

2. ROAMING

2.1. Roaming subscribers

The international roaming subscribers during the third quarter of the year 2020 stood at 1.5 million foreign subscribers roamed on local networks whereas 0.8 million local subscribers roamed on foreign networks.

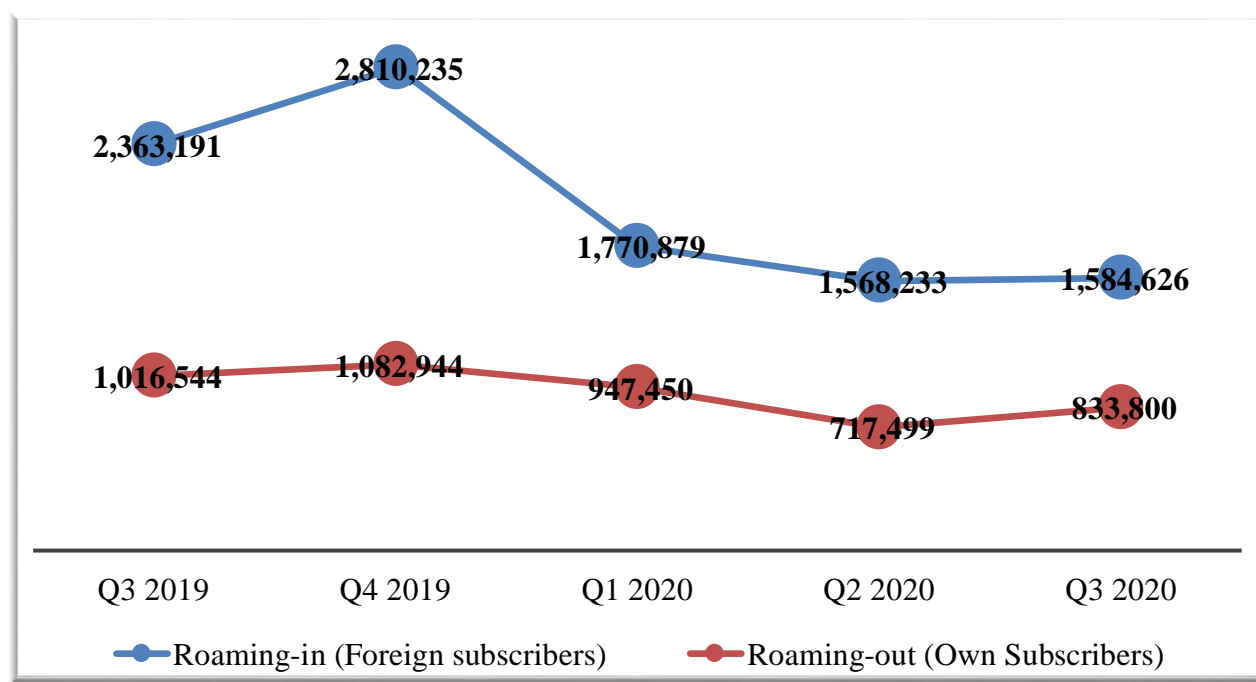
Table 8: International roaming subscribers as of the third quarter 2020

Destination	MTN Rwanda Ltd	Airtel Rwanda Ltd	Total
Roaming-in (Foreign subscribers)	631,671	952,955	1,584,626
Roaming-out (Own Subscribers)	628,495	205,305	833,800

Source: Operators' reports, September 2020

Figure 6: Trend of roaming subscribers from Q2 2019 to Q3 2020

During the quarter under review, the number of roamers-out increased to 833,800 from 717,499 subscribers representing an increase of 16.2% and the number of roamers-in increased to 1,584,626 from 1,568,233 subscribers recorded during the previous quarter, which is equivalent to 1.0 percent increase.



Source: Operators' reports, September 2020

2.2. Roaming traffic

During the quarter under review, the total volume of outgoing traffic generated by foreign subscribers roaming in Rwanda was 0.7 million minutes whereas the total minutes generated by Rwanda mobile networks' subscribers roamed outside the country was 1.0 million minutes. On the other hand, the total incoming traffic on foreign subscribers roamed in Rwanda was 30.4 million minutes and 13.5 million minutes for local subscribers roamed on foreign networks.

Table 9: Outgoing and incoming roaming traffic (in minutes) per operator as of the third quarter 2020

Destination	Own subscribers roaming on foreign networks			Foreign subscribers roaming on local networks		
	MTN	Airtel	Total	MTN	Airtel	Total
Incoming	12,366,439	1,149,261	13,515,699	23,558,906	6,857,105	30,416,011
Outgoing	1,028,621	22,935	1,051,556	534,205	222,340	756,545
Total	13,395,059	1,172,196	14,567,255	24,093,111	7,079,445	31,172,556

Source: Operators' reports, September 2020

3. FIXED TELEPHONE SERVICES

3.1. Fixed telephone subscriptions

As of September 2020, the operators offering fixed telephone services were Liquid Telecom Ltd, MTN Rwanda Ltd, Airtel Rwanda Ltd and BSC Ltd that offers voice-over-IP (VoIP) subscriptions only.

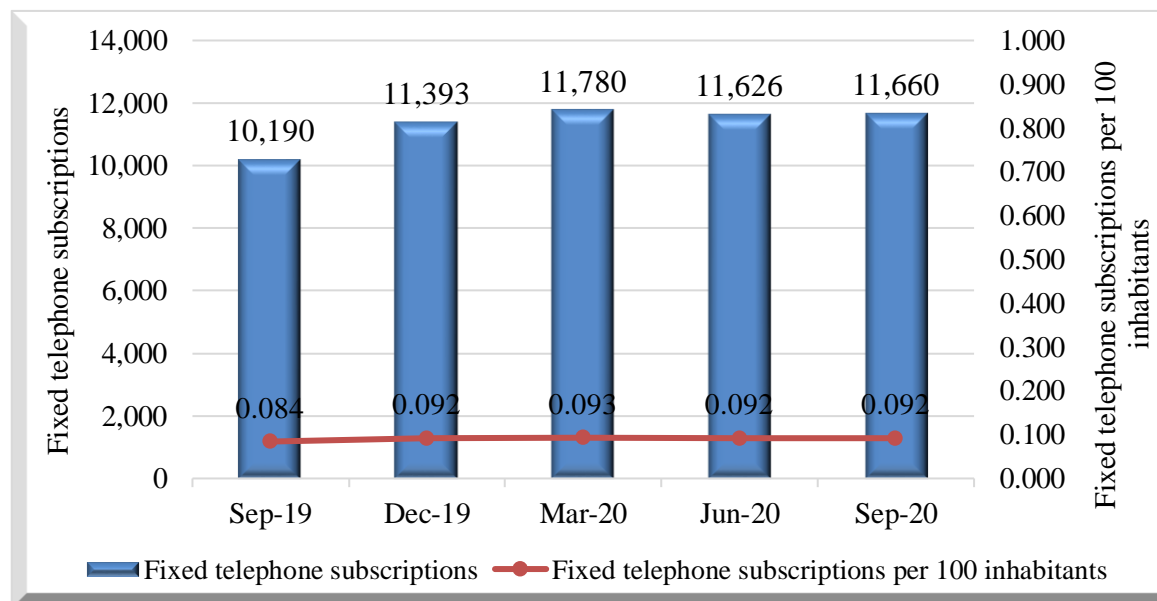
Table 10: Fixed telephone subscriptions as of September 2020

Name of Operator	Fixed telephone subscriptions	Fixed telephone penetration rate (%) ³
MTN Rwanda Ltd	175	0.092
Airtel Rwanda Ltd	9,521	
Liquid Telecom Ltd	704	
BSC Ltd	1,260	
Total	11,660	

Source: Operators' reports, September 2020

Figure 7: Trend of fixed telephone subscriptions and penetration rate

At the end of September 2020, the number of fixed telephone subscriptions increased up to 11,660 from 10,190 recorded as of the third quarter of 2019. As result, fixed telephone subscriptions per 100 people increased to 0.092 percent from 0.084 percent.

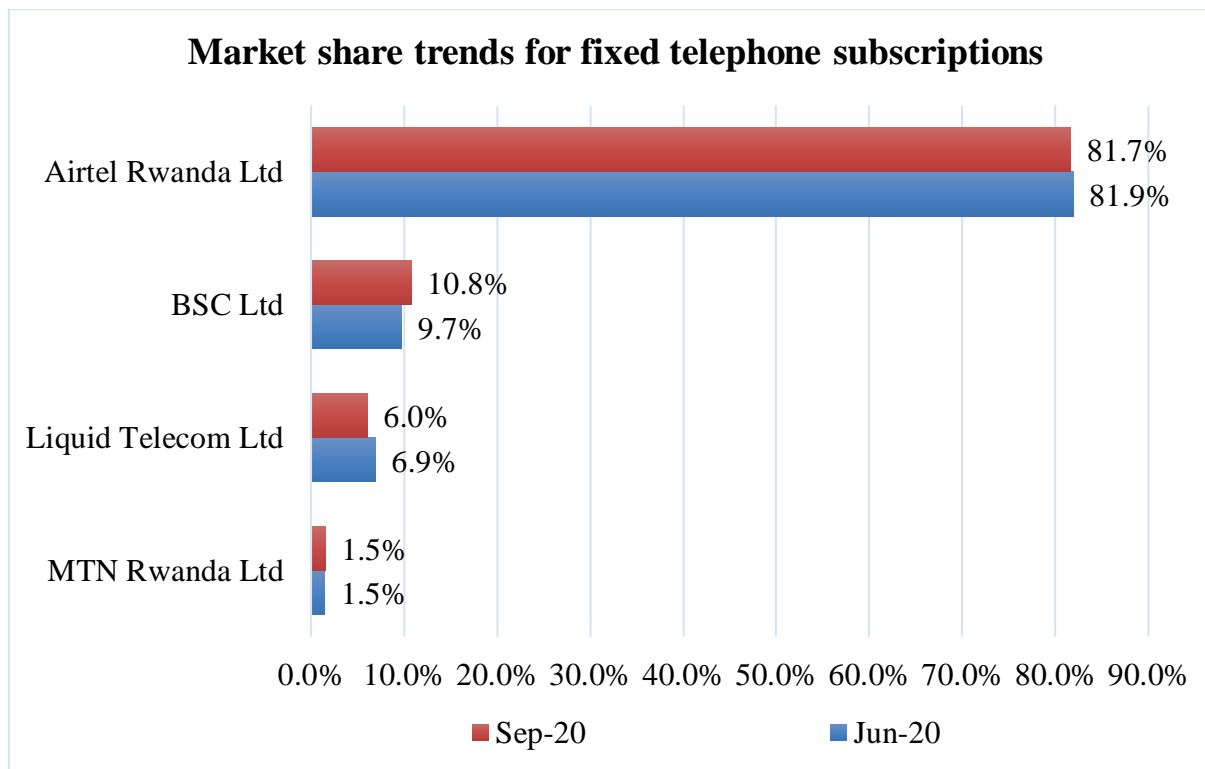


Source: Operators' reports, September 2020

³ Fixed telephone penetration rate (%) is computed with reference to the sum of active numbers of analogue-fixed telephone lines and VoIP over the Rwandan population as projected by National Institute of Statistics of Rwanda.

Figure 8: Market share trends for fixed telephone subscriptions per operator as of Sep-2020

At the end of the third quarter of 2020, the market shares in fixed telephone subscriptions for Airtel Rwanda Ltd decreased by 0.2 percentage points to stand at 81.7 percent, the market shares for BSC Ltd increased from 9.5 to 10.8 percent, while that for Liquid Telecom Ltd decreased by 0.9 percentage points just from 6.9 to 6.0 percent. The market shares for MTN Rwanda Ltd remained constant at 1.5 percent.



Source: Operators' reports, September 2020

3.2. Fixed telephone traffic

During this third quarter of the year 2020, the total volume of minutes originating within operators by fixed telephone lines was 6.5 million minutes, the total minutes originating from one operator to other operators was 0.3 million minutes, and the total minutes from Rwanda fixed telephone lines to international networks was 0.6 thousand minutes. The number of minutes from international networks to local fixed telephone lines was 809 minutes.

Table 11: Outgoing mobile and fixed telephone incoming traffic

Voice traffic	MTN Rwanda Ltd	Airtel Rwanda Ltd	Liquid Telecom Ltd	Total
Outgoing calls				
On net	6,368,358	143,084	8,728	6,520,170
Off net	73,823	10,445	220,088	304,356
International	54,363	408	9,988	64,759
Incoming calls				
International	278	-	531	809

Source: Operators' reports, September 2020

3.3. Fixed telephone service tariff

During the third quarter of the year 2020, the average tariff for calling by fixed telephone within telecom operator was 30 Frw, while calling across telecom operators was 37 Frw, and 183 Frw to call in One Area Network Countries.

Table 12: Fixed telephone service tariff structure (in Frw) per minute as of September 2020

Destination	Liquid Telecom Ltd	MTN Rwanda Ltd	Airtel Rwanda Ltd	Average
On net	10	45	35	30
Off net	30	45	35	37
ONA	408	70	70	183

Source: Operators' reports, September 2020

4. INTERNET SERVICE PROVISION

4.1. Internet subscriptions⁴

At the end of September 2020, there was 7,904,822 active SIM cards subscribed to the internet and 14,565 active fixed internet subscriptions. The table below displays the internet subscriptions per operator.

Table 13: Internet subscriptions per category as of September 2020

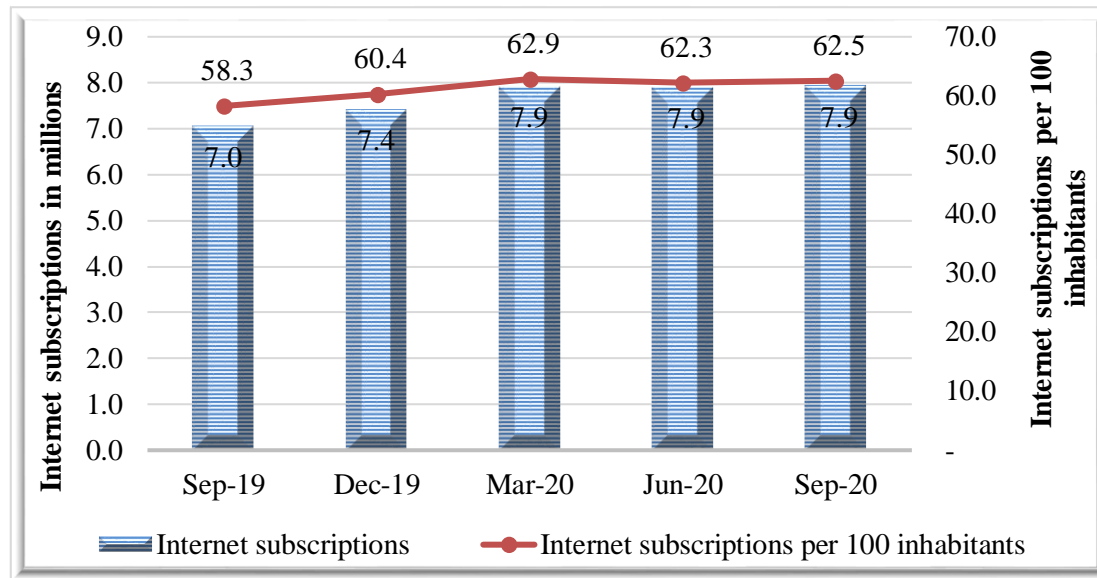
Name of operators	Fixed internet subscriptions		Mobile internet subscriptions			Total internet subscriptions
	Narrowband (≤ 256 kbps)	Broadband (≥ 256 kbps)	EDGE	3G	4G	
MTN Rwanda Ltd	88	1,971	3,605,787	901,447	500,804	5,010,097
Airtel Rwanda Ltd		864	2,093,748	689,946	3,668	2,788,226
Axiom Networks Ltd		147				147
4NetAfrica Ltd		3			278	281
BCS Ltd		9				9
BSC Ltd		2,985			12,291	15,276
Liquid Telecom Ltd		5,744				5,745
CBNET Ltd		5			835	840
G-MAX Ltd		14			504	518
ISCO ISP Ltd		21			2,746	2,767
NET LINK Ltd		1			483	484
Piramie INC					459	459
Simba Supermarket					272	272
Truconnect		22			1,306	1,328
BK Techouse		135			986	1,121
FASTNET		15			3,624	3,639
Mango Telecom Ltd		7			72,564	72,571
POPCONN Ltd		9			7,724	7,733
RTN Ltd					1,584	1,584
AC Group Ltd					356	356
Smart Broadband Ltd		1			363	364
TNSP		19			2,337	2,356
NETPRO Ltd					710	710
Revolution Air Ltd		125				125
GVA Rwanda		2,380				2,380
Total	88	14,477	5,699,535	1,591,393	613,894	7,919,387
Penetration rate (%)	0.0	0.1	45.0	12.6	4.8	62.5

Source: Operators' reports, September 2020

⁴ Internet subscriptions combine the number of active SIM cards (mobile internet) connected to the internet at least once within 90 days and active fixed internet subscriptions.

Figure 9: Trend of internet subscriptions and internet subscriptions per 100 inhabitants⁵

The total number of internet subscriptions increased by 12.4 percent up to 7.9 million from 7.0 million recorded at the end of the third quarter of 2019 while there was a slight increase of 0.4 percent between September 2020 and June 2020. At the end of September 2020, the internet subscriptions per 100 inhabitants was 62.5%.



Source: Operators' reports, September 2020

Table 14: Fixed internet subscriptions by speed

At the end of September of the year 2020, the 99.4 percent of the fixed internet subscriptions are subscribed to the speed greater or equal 256 kbps, whereas 0.6 percent of the total internet subscriptions are below 256 kbps.

Speed	Fixed internet subscriptions	
	September 2020	June 2020
< 256 kbps	88	87
[256 kbps-2Mbps [1,722	1,625
[2 Mbps -10 Mbps [2,526	2,783
[10 Mbps-30Mbps [7,903	4,867
[30 Mbps < 100Mbps [2,169	1,387
≥ 100 Mbps	157	40
Total	14,565	10,789

Source: Operators' reports, September 2020

⁵ Internet subscriptions per 100 inhabitants: This rate is the total internet subscriptions over the Rwandan population as projected by National Institute of Statistics of Rwanda.

Table 15: Fixed internet subscriptions by technology

During the period under review, the highest number of fixed internet subscriptions were connected to the fiber-to-the home/building, whereas the lowest fixed internet subscriptions are on satellite and DSL technology.

Technology	Fixed internet subscriptions	
	September 2020	June 2020
Satellite	32	32
DSL	95	88
Terrestrial fixed wireless	1,176	1,209
Fiber-to-the home/building	12,379	8,103
Others	883	1,357
Total	14,565	10,789

Source: Operators' reports, September 2020

4.2. International internet bandwidth

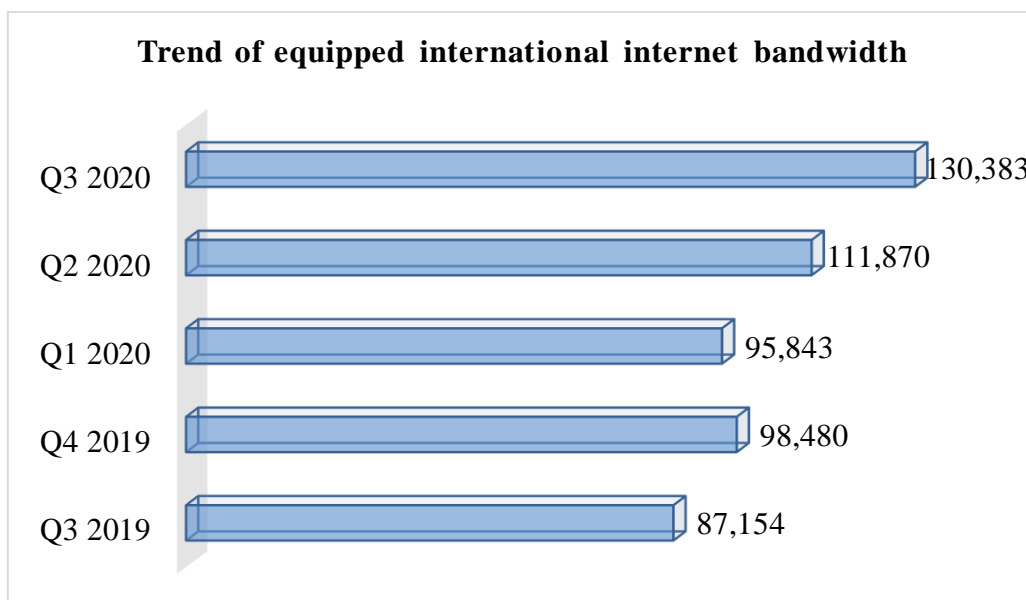
Table 16: International internet bandwidth (Mbps) per operator as of the third quarter 2020

Name of operator	Equipped bandwidth	Used bandwidth
MTN Rwanda Ltd	20,635	10,426
Liquid Telecom Ltd	80,000	28,167
Airtel Rwanda Ltd	20,300	7,997
BSC Ltd	4,900	4,544
KTRN Ltd	2,244	6,050
Axiom Networks	2,304	835
Total	130,383	58,018

Source: Operators' reports, September 2020

Figure 10: Trend of equipped international internet bandwidth (Mbps) from Q3 2019 to Q3 2020

During the quarter under reporting, the total equipped international internet bandwidth available in the country was 130,383 Mbps and average used internet bandwidth was 58,018 Mbps. This total equipped international internet bandwidth excludes 8,622 Mbps supplied by Liquid Telecom Ltd and MTN Rwanda Ltd to KTRN Ltd and BSC Ltd.

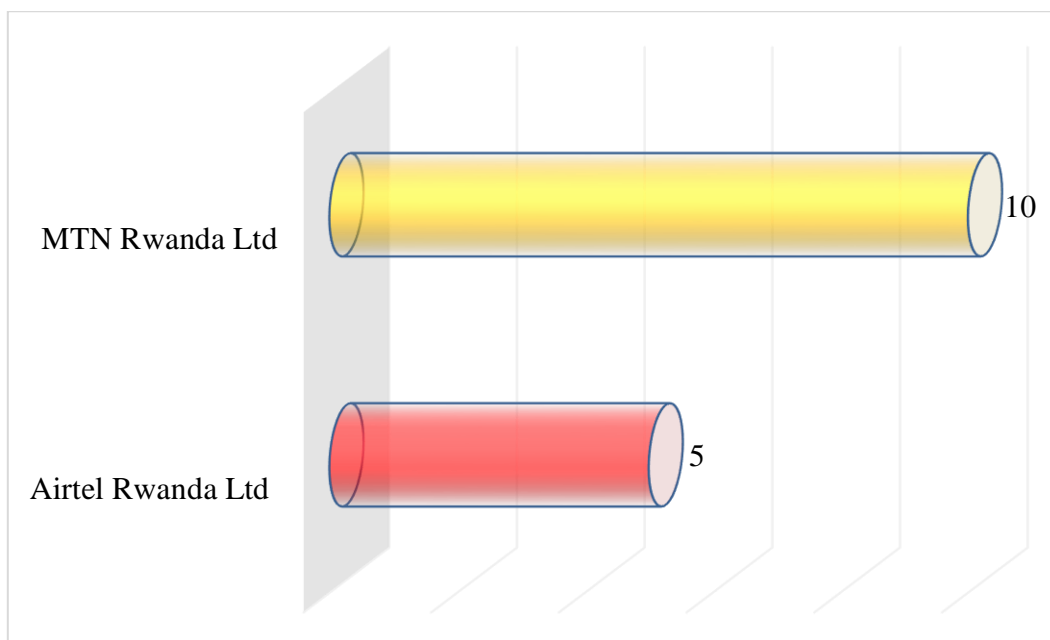


Source: Operators' reports, September 2020

4.3. Mobile internet tariff

At the end of September 2020, the standard tariff for mobile internet per MB was at 10 Frw on MTN Rwanda Ltd and 5 Frw on Airtel Rwanda Ltd network.

Figure 11: Standard mobile internet tariff (Frw/MB) as of September 2020



Source: Operators' reports, September 2020

5. TELECOMMUNICATION REVENUES AND INVESTMENT

Table 17: Trend of quarterly revenues (Frw) from Q4 2019 to Q3 2020

Category	Q4 2019	Q1 2020	Q2 2020	Q3 2020
Total Revenues for MNOs and Liquid Telecom Ltd	44,402,330,838	43,209,193,088	44,860,787,018	55,865,808,070
Total revenues for ISPs and Wholesale Network Service Provider	9,580,433,557	7,864,369,646	10,132,162,379	9,708,752,820
Total	53,982,764,395	51,073,562,735	54,992,949,398	65,574,560,889

Source: Operators' reports, September 2020

Table 18: Trend of additional investment (Frw) made in the third quarter 2020

Category	Q4 2019	Q1 2020	Q2 2020	Q3 2020
Total investment for MNOs and Liquid Telecom Ltd	22,750,234,255	19,555,498,876	16,327,806,071	9,031,508,211
Total investment for ISPs and Wholesale Network Service Provider	2,255,480,515	3,435,833,387	1,185,266,915	2,157,953,517
Total	25,005,714,770	22,991,332,263	17,513,072,986	11,189,461,727

Source: Operators' reports, September 2020

6. EMPLOYMENT IN TELECOMMUNICATION SECTOR

One thousand one hundred and seventeen (1,117) persons were employed in telecommunication sector at the end of September 2020; nine hundred and fifty-eight (958) are permanent staff while one hundred fifty-nine (159) are temporary staff. There were also five hundred and forty-two (542) outsourced staff employed by telecommunication sector. The table below illustrates the number of employed persons by operator.

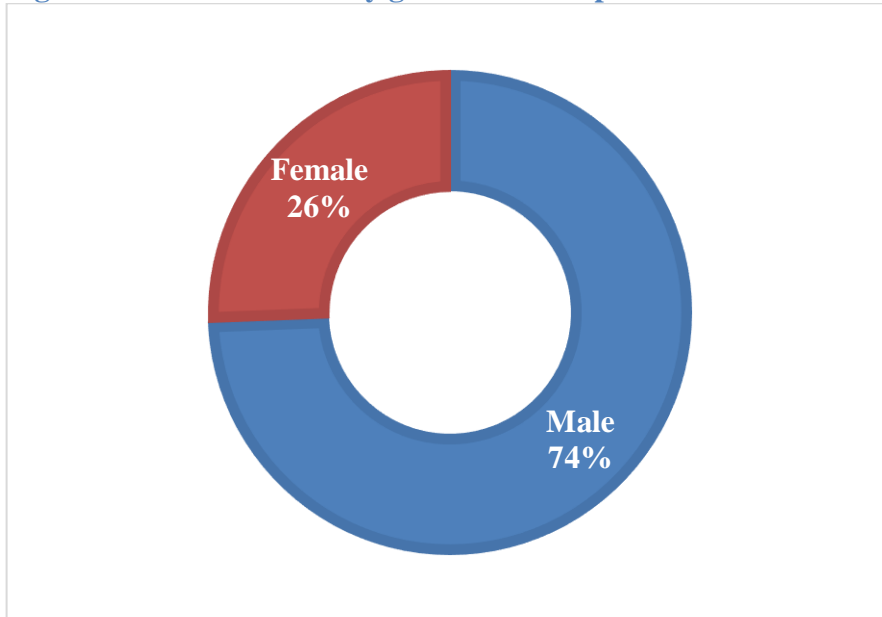
Table 19: Number of staff employed in telecommunication sectors as of September 2020

Operator	Type of contract			Gender		Domestic and foreign employees		Outsourced staff
	Temporary	Permanent	Total	Female	Male	Domestic	Foreign	
MTN Rwanda Ltd	8	273	281	84	197	273	8	294
Airtel Rwanda Ltd	0	131	131	17	114	124	7	190
Liquid Telecom Ltd	94	57	151	24	127	147	4	0
G-MAX	2	8	10	3	7	8	2	0
Truconnect	3	5	8	3	5	8	0	0
Axiom Networks Ltd	1	29	30	11	19	27	3	0
4NetAfrica Ltd	0	2	2	1	1	2	0	0
TNSP	19	7	26	4	22	26	0	2
KTRN Ltd	3	112	115	28	87	112	3	3
Piramie INC	4	1	5	2	3	3	2	1
POPCONN Ltd	0	14	14	4	10	13	1	0
BSC Ltd	14	59	73	19	54	73	0	0
BCS Ltd	0	1	1	0	1	1	0	0
AC Group Ltd	0	38	38	10	28	38	0	0
FASTNET	2	3	5	3	2	5	0	2
ISCO ISP Ltd	0	2	2	1	1	2	0	0
SIMBA Supermarket	0	3	3	0	3	3	0	0
BK Techouse	2	15	17	3	14	17	0	0
Mango Telecom Ltd	0	126	126	47	79	124	2	0
NET LINK LTD	1	9	10	3	7	9	1	0
CBNET Ltd	2	1	3	1	2	3	0	0
RTN	0	20	20	6	14	20	0	0
Smart Broadband Ltd	4	4	8	3	5	8	0	0
SUKU NSA LTD	0	0	0	0	0	0	0	0
NETPRO LTD	0	5	5	2	3	5	0	0
Revolution Air Ltd	0	11	11	3	8	11	0	0
GVA Rwanda	0	22	22	4	18	22	0	50
Total	159	958	1,117	286	831	1,084	33	542

Source: Operators' reports, September 2020

The two hundred seventy-six (286) staff representing 26 percent of the total staff are female whereas 74 percent are male as it is shown in the figure below. The three hundred and four persons (304) representing 56 percent of the total outsourced staff are female.

Figure 12: Telecom staff by gender as of September 2020



Source: Operators' reports, September 2020

7. MEDIA AND BROADCASTING

The table below shows the number of licensed Television Stations, FM Radio Broadcasters, Online Media Houses, and Signal Distributors registered to operate in Rwanda during the third quarter of the year 2020.

7.1. Licensed media operators

During the quarter under review, there were two (2) licensed signal distributors, three (3) pay TV operators, thirty-five (35) FM radio stations, nineteen (19) television stations, twenty-three (23) online media houses, thirty-one (31) print media houses, and three (3) international media houses.

Table 20: Trends of Licensed media operators from September 2019 to September 2020

Category	Sep-2019	Dec-2019	Mar-2020	Jun-2020	Sep-2020
Signal distributors	2	2	2	2	2
Pay TV operators	3	3	3	3	3
FM Radio stations	34	33	34	34	35
Television stations	18	18	18	19	19
Online media houses	23	23	23	23	23
Print media houses	30	30	31	31	31
International media house	3	3	3	3	3

Source: RURA database

7.2. Pay TV subscriptions

The total number of active subscribers was 62,523 recorded at the end of the third quarter of the year 2020 whereas registered subscribers were 304,643.

Table 21: Number of Pay TV subscribers as of September 2020

Name of Pay TV	Active Subscribers	Registered Subscribers
Azam Media Ltd	2,416	13,914
Star Africa Media Ltd	35,107	258,836
Tele 10 Ltd	25,000	31,893
Total	62,523	304,643

Source: Operators' reports, September 2020

7.3. Decoders sold

During this quarter under review, the number of decoders sold by Pay TV operators increased to five thousand three hundred and sixty-two (6,362) from six thousand one hundred (3,735) recorded in the previous quarter.

Table 22: Trend of decoders sold from 3rd quarter 2019 to 3rd quarter of 2020

Number of Decoders Sold	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020
Azam Media Ltd	426	118	117	98	110
Star Africa Media Ltd	789	4,205	5,618	3,193	4,983
Tele 10 Ltd	389	498	365	444	269
Total	1,604	4,821	6,100	3,735	5,362

Source: Operators' reports, September 2020

7.4. Pay TV staff

Table 23: Number of staff employed in Pay TV operators as of September 2020

Operator	Staff per type of contract			Staff per gender		Origin	
	Temporary	Permanent	Total	Female	Male	Domestic	Foreign
Azam Media Ltd	0	10	10	2	8	9	1
Star Africa Media Ltd	3	89	92	24	68	85	7
Tele 10 Ltd	0	29	29	9	20	29	0
Total	3	128	131	35	96	123	8

Source: Operators' reports, September 2020

The total number of staff employed by Pay TV operators as of September 2020 was 131 of which 70.2% are employed by Star Africa Media Ltd, 22.1% by Tele 10 Ltd, and 7.6% are employed by Azam Media Ltd. The three-five (35) staff representing 26.7% of the total staff are female.