

# Information & Communication Technology

Stats Brief Q3, 2021



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# **Information & Communication Technology**

Stats Brief Q3, 2021

## 1. INTRODUCTION

This Stats Brief presents Botswana Information and Communications Technology Statistics for Q3 2021. It contains statistics relating to ICT infrastructure and services, as well as the contribution of Information and Communication Technology and Postal & Courier Sectors to the economy.

The fixed telephone line subscriptions went up by 1.4 percent in Q3 2021, they rose from 134,498 which was registered in Q2 2021 to 136,356. Mobile cellular telephone subscriptions increased by 2.8 percent in Q3 2021, from 3,911,833 registered in Q2 2021 to 4,023,009 in Q3 2021. Internet subscriptions increased as well in Q3 2021. They went up by 8.1 percent in Q3 2021, from 2,288,041 subscriptions in Q2 2021 to 2,472,260.

Fixed to mobile telephone domestic calls traffic in minutes declined by 3.0 percent in Q3 2021, whilst mobile to fixed telephone domestic calls traffic went down by 3.8 percent. Outgoing international calls traffic from both fixed telephones and mobile telephones decreased in Q3 2021 as well. Outgoing international calls traffic from fixed telephones went down by 7.5 percent, while those from mobile telephones fell by 2.7 percent.

The contribution of the ICT sector to the economy stood at 2.7 percent of total GDP at current prices in Q3 2021 while that of Postal and Courier Services amounted to 0.1 percent of total GDP. At constant prices, the ICT sector contributed P1, 130.9 million of value added which is 2.4 percent of total GDP. Postal and Courier Services Sector produced a value added of P43.2 million at constant prices, thus contributing 0.1 percent of total GDP.

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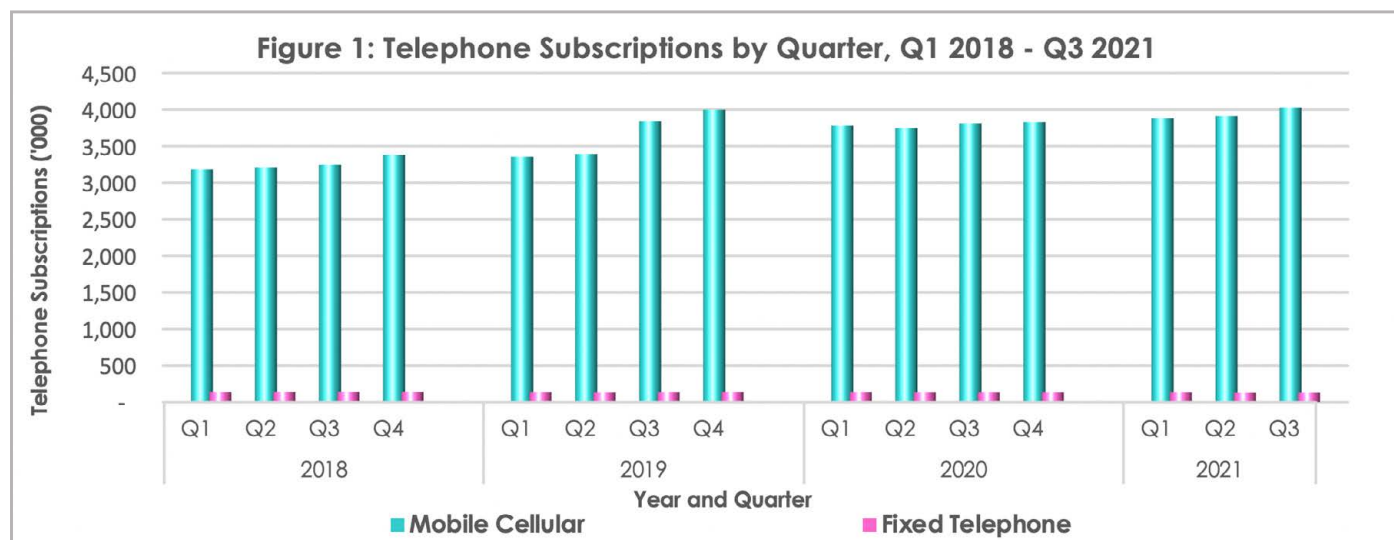
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Dr. Burton Mguni  
**Statistician General**  
**January 2022**

## 2. TELECOMMUNICATION

### 2.1 Fixed Telephone Lines and Mobile Cellular Telephone Subscriptions



The fixed telephone lines subscriptions increased by 1.4 percent in Q3 2021. They rose from 134,498 registered in Q2 2020 to 136,356. The mobile cellular telephone subscriptions also increased in Q3 2021, from 3,911,833 recorded in Q2 2021 to 3,873,541 in Q3 2021.

Comparing Q3 2021 to the same quarter of 2020 (Q3 2020), fixed telephone lines went down by 2.1 percent while mobile cellular telephone subscriptions increased by 5.5 percent. This is illustrated in **Figure 1** above and **Table 2.1** below. More details are shown in **Table 1** in the Appendix.

**Table 2.1: Telephone Subscriptions by Quarter and Year, Q1 2020 - Q3 2021**

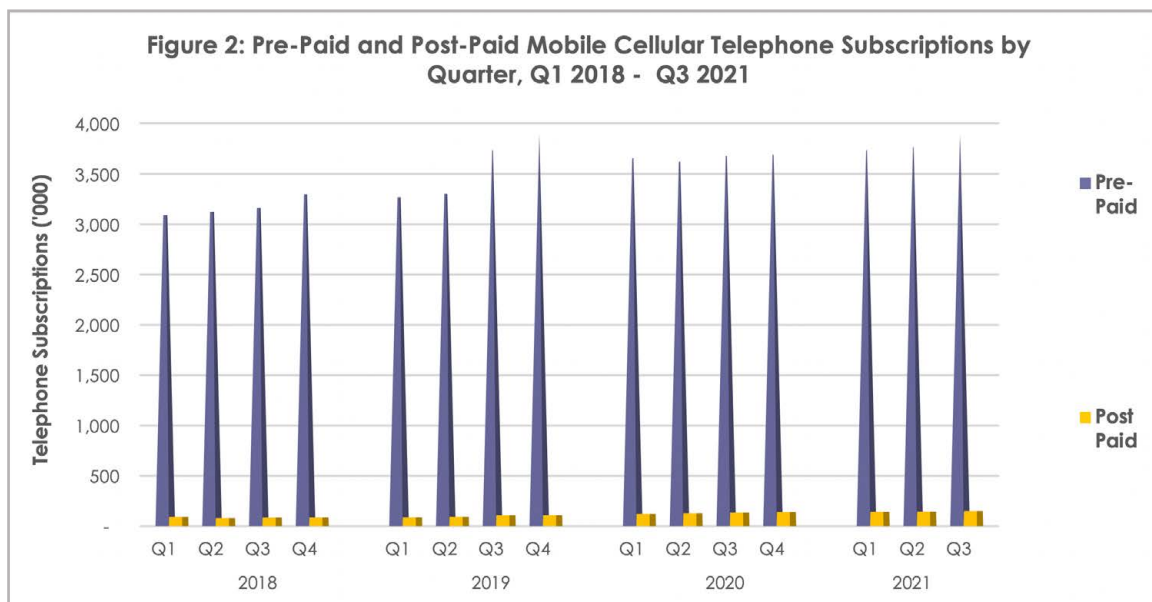
Telephone Subscriptions	2020				2021		
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3
	<i>Numbers</i>						
Fixed Telephone	140,722	140,055	139,281	140,003	139,930	134,498	136,356
Mobile Cellular Telephone							
Pre-Paid	3,656,209	3,620,072	3,678,386	3,688,472	3,733,282	3,766,580	3,873,541
Post Paid	122,492	127,250	134,809	140,936	143,491	145,253	149,468
<b>Total</b>	<b>3,778,701</b>	<b>3,747,322</b>	<b>3,813,195</b>	<b>3,829,408</b>	<b>3,876,773</b>	<b>3,911,833</b>	<b>4,023,009</b>
	<i>Quarterly Percentage Change</i>						
Fixed Telephone	(0.8)	(0.5)	(0.6)	0.5	(0.1)	(3.9)	1.4
Mobile Cellular Telephone							
Pre-Paid	(6.1)	(1.0)	1.6	0.3	1.2	0.9	2.8
Post Paid	13.9	3.9	5.9	4.5	1.8	1.2	2.9
<b>Total</b>	<b>(5.5)</b>	<b>(0.8)</b>	<b>1.8</b>	<b>0.4</b>	<b>1.2</b>	<b>0.9</b>	<b>2.8</b>

Source: Information and Communication Technology Statistics, Statistics Botswana

Note: "... " denotes no data

### 2.2 Pre-paid and Post-paid Mobile Cellular Telephone Subscriptions

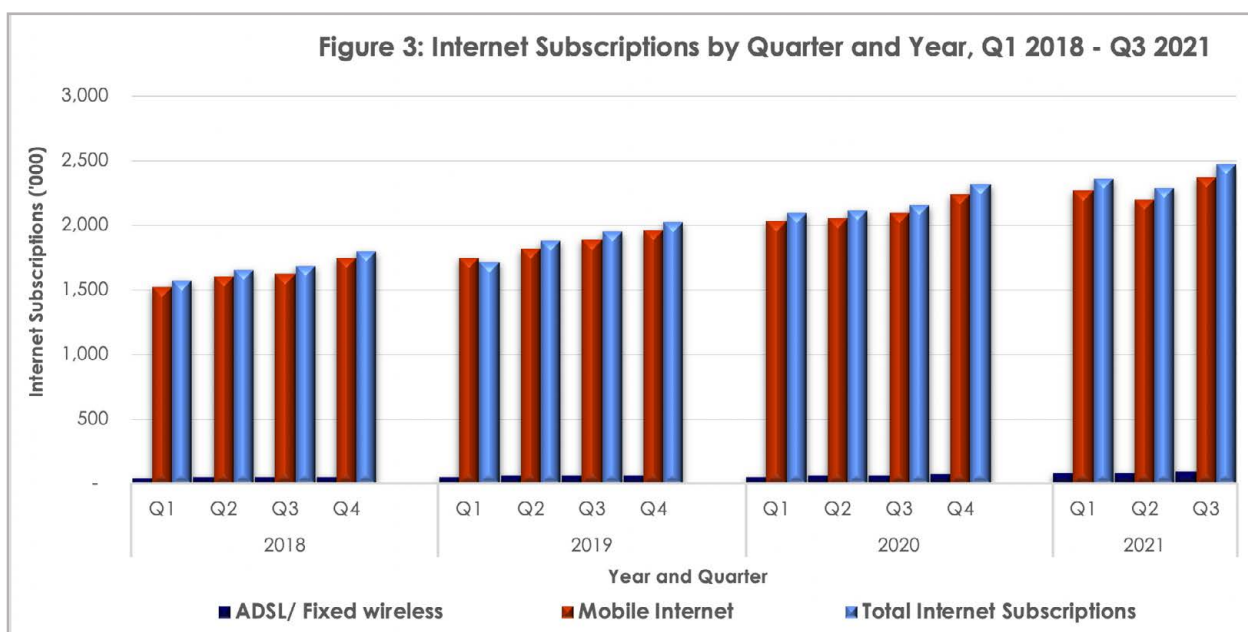
Both pre-paid and post-paid mobile cellular telephone subscriptions increased in Q3 2021. Pre-paid mobile cellular telephone subscriptions went up by 2.8 percent from 3,766,580 registered in Q2 2021 to 3,873,541. Post-paid mobile cellular telephone subscriptions increased by 2.9 percent in Q3 2021, from 145,253 in Q2 2021 to 149,468. Details are shown in **Figure 2** below and **Table 1** in the **Appendix**.



## 2.3 Internet Subscriptions

Total internet subscriptions (i.e. mobile internet plus fixed internet subscriptions) increased by 8.1 percent in Q3 2021, from 2,288,041 registered in Q2 2021 to 2,472,260. Mobile internet subscriptions went up, registering an increase of 8.1 percent; from 2,197,671 subscriptions in Q2 2021 to 2,374,865 in Q3 2021. Fixed internet subscriptions also increased in Q3 2021, from 82,946 in Q2 2021 to 97,395.

Compared to the same quarter of the previous year, Q3 2021 realized an increase of 14.5 percent in total internet subscriptions, with both mobile internet subscriptions and fixed internet subscriptions registering increases of 13.4 and 46.1 percent respectively. Details are as indicated in **Figure 3** below and **Table 2** in the **Appendix**.



## 2.4 Telephone Traffic

Telephone Calls traffic comprises of Domestic calls, International calls and Short Message Service (SMS).

On-net fixed telephone domestic calls (Fixed to fixed telephone calls) traffic in minutes declined by 10.4 percent in Q3 2021. The traffic fell from 17.3 million minutes registered in Q2 2021 to 15.5 million.

Off net fixed telephone domestic calls (Fixed to mobile telephone calls) traffic also decreased. It declined by

3.0 percent in Q3 2021, after registering 25.7 million minutes in Q2 2021 to 25.0 million minutes.

With regard to mobile telephone domestic calls traffic, on-net mobile telephone traffic went up by 11.5 percent in Q3 2021 while off-net mobile telephone traffic declined by 4.2 percent. Mobile to fixed telephone traffic fell by 3.8 percent in Q3 2021.

International outgoing fixed telephone calls traffic decreased by 7.5 percent in Q3 2021, from 1.4 million minutes in Q2 2021 to 1.3 million. Outgoing international mobile telephone calls traffic also declined by 2.7 percent in Q3 2021, from 6.0 million minutes recorded in Q2 2021 to 5.8 million minutes.

On-net short message services (SMS) traffic increased by 3.4 percent while off-net SMS traffic decreased slightly by 0.8 percent in Q3 2021. Details are shown in Table 2.2 below and Table 3 in the Appendix.

On-net and off-net short message services (SMS) decreased by 6.2 and 8.3 percent respectively in Q2 2021. Details are shown in **Table 2.2** below and **Table 3** in the **Appendix**.

**Table 2.2: Domestic and International Telephone Traffic (Minutes) by Quarter, Q1 2020 - Q3 2021**

Telephone and Short Message Service Traffic	2020				2021		
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3
<i>Numbers ('000 000)</i>							
<b>Domestic Calls</b>							
From Fixed Telephones to Fixed Telephones	1,455.0	983.2	1,247.0	1,206.4	18.6	17.3	15.5
From fixed Telephones to Mobile Cellular Telephones	1,812.3	1,462.7	1,630.5	1,764.0	27.2	25.7	25.0
On Net Mobile Cellular Telephone Calls	1,100.3	1,644.4	1,777.2	1,787.3	1,818.9	1,860.1	2,074.5
Off Net Mobile Cellular Telephone Calls	187.9	170.6	194.2	208.0	189.1	185.9	178.2
From Mobile Cellular Telephones to Fixed Telephones	63.0	47.5	59.1	60.5	55.8	52.8	50.8
<b>International Calls</b>							
Outgoing from Fixed Telephones	162.0	194.1	108.0	103.5	1.5	1.4	1.3
Incoming to Fixed Telephones	-	-	-	-	-	-	-
Outgoing from Mobile Cellular Telephones	8.2	6.7	6.9	6.9	6.2	6.0	5.8
<b>Short Message Service</b>							
On Net	130.5	106.0	109.3	110.6	103.4	97.0	100.3
Off Net	80.3	63.6	66.0	68.5	61.1	56.0	55.6
<i>Quarterly Percentage Change</i>							
<b>Domestic Calls</b>							
From Fixed Telephones to Fixed Telephones	(22.4)	(32.4)	26.8	(3.3)	(98.5)	(7.1)	(10.4)
From fixed Telephones to Mobile Cellular Telephones	8.5	(19.3)	11.5	8.2	(98.5)	(5.4)	(3.0)
On Net Mobile Cellular Telephone Calls	11.7	49.4	8.1	0.6	1.8	2.3	11.5
Off Net Mobile Cellular Telephone Calls	36.6	(9.2)	13.9	7.1	(9.1)	(1.7)	(4.2)
From Mobile Cellular Telephones to Fixed Telephones	544.9	(24.6)	24.4	2.4	(7.7)	(5.3)	(3.8)
<b>International Calls</b>							
Outgoing from Fixed Telephones	(16.5)	19.8	(44.4)	(4.2)	(98.6)	(5.2)	(7.5)
Incoming to Fixed Telephones	-	-	-	-	-	-	1.0
Outgoing from Mobile Cellular Telephones	(7.3)	(17.9)	1.7	(0.1)	(9.6)	(3.6)	(2.7)
<b>Short Message Service</b>							
On Net	(8.8)	(18.7)	3.1	1.2	(6.5)	(6.2)	3.4
Off Net	(49.1)	(20.8)	3.8	3.7	(10.8)	(8.3)	(0.8)

Source: Information and Communication Technology Statistics, Statistics Botswana

Note: "-" denotes zero

"..." denotes no data

### 3. CONTRIBUTION OF POSTAL AND COMMUNICATION SERVICES TO GDP

**Table 3.1** below illustrates the contribution of Information and Communication Technology (ICT) as well as Postal and Courier Services to Gross Domestic Product (GDP). In Q3 2021, the contribution of ICT sector to the economy stood at 2.7 percent of total GDP at current prices. The ICT sector's value added at current prices amounted to P1, 348.5 million. Postal and Courier Services sector's value added amounted to P62.1 million in current prices, which constituted 0.1 percent of total GDP IN Q3 2021. More details are in **Table 4** in the **Appendix**.

**Table 3.1: Contribution of Information and Communication Technology (ICT) and Postal & Communication Services To GDP by Quarter and Year, Q1 2020 - Q3 2021**

	2020				2021		
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3
<b>Communication &amp; Postal Services</b>							
<b>Current Prices</b>							
Total GDP (P Million)	46,066.4	36,233.7	43,641.8	45,100.0	46,929.4	48,684.0	49,260.5
ICT Value Added (P Million)	1,282.3	1,185.9	1,255.4	1,341.4	1,366.8	1,360.0	1,348.5
ICT Contribution To GDP (%)	2.8	3.3	2.9	3.0	2.9	2.8	2.7
ICT Annual Growth Rates (%)	8.2	-0.8	2.6	8.3	6.6	14.7	7.4
Postal & Courier Services Value Added (P Million)	59.8	49.1	55.9	63.0	69.4	57.0	62.1
Postal & Courier Services Contribution To GDP (%)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Postal & Courier Services Annual Growth Rates (%)	(7.4)	(13.1)	2.4	17.1	16.1	16.0	11.1
<b>Constant Prices</b>							
Total GDP (P Million)	45,856.1	33,710.3	44,125.9	44,033.5	46,314.1	46,282.1	47,833.7
ICT Value Added (P Million)	1134.4	1046.1	1104.6	1163.3	1179.3	1146.3	1130.9
ICT Contribution To GDP (%)	2.5	3.1	2.5	2.6	2.5	2.5	2.4
ICT Annual Growth Rates (%)	5.3	-2.8	0.5	4.7	4.0	9.6	2.4
Postal & Courier Services Value Added (P Million)	47.3	38.8	44.2	43.9	48.3	39.6	43.2
Postal & Courier Services Contribution To GDP (%)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Postal & Courier Services Annual Growth Rates (%)	-7.4	-13.1	2.4	3.1	2.1	2.1	-2.2

Source: National Accounts, Statistics Botswana



## APPENDIX I

Table 1: Telephone Subscriptions by Quarter and Year, Q1 2012 - Q3 2021

		Telephone Subscriptions							
		Mobile Cellular			Fixed Telephone	Mobile Cellular			Fixed Telephone
Year/Quarter		Pre-Paid	Post Paid	Total		Pre-Paid	Post Paid	Total	
		Numbers			Quarterly Percentage Change				
2012	Q1	2,893,480	59,636	2,953,116	150,549	...	...	...	...
	Q2	2,914,071	61,920	2,975,991	151,360	0.7	3.8	0.8	0.5
	Q3	2,928,017	62,514	2,990,531	159,182	0.5	1.0	0.5	5.2
	Q4	3,017,884	63,842	3,081,726	160,488	3.1	2.1	3.0	0.8
2013	Q1	3,032,563	68,839	3,101,402	162,718	0.5	7.8	0.6	1.4
	Q2	3,047,241	73,836	3,121,077	163,699	0.5	7.3	0.6	0.6
	Q3	3,139,210	76,409	3,215,619	170,910	3.0	3.5	3.0	4.4
	Q4	3,169,148	77,639	3,246,787	174,165	1.0	1.6	1.0	1.9
2014	Q1	3,126,346	78,523	3,204,869	174,992	(1.4)	1.1	(1.3)	0.5
	Q2	3,116,697	79,415	3,196,112	175,674	(0.3)	1.1	(0.3)	0.4
	Q3	3,137,570	81,690	3,219,260	168,817	0.7	2.9	0.7	(3.9)
	Q4	3,328,284	82,223	3,410,507	169,236	6.1	0.7	5.9	0.2
2015	Q1	3,324,654	81,233	3,405,887	169,474	(0.1)	(1.2)	(0.1)	0.1
	Q2	3,334,807	79,851	3,414,658	171,006	0.3	(1.7)	0.3	0.9
	Q3	3,361,527	78,150	3,439,677	172,920	0.8	(2.1)	0.7	1.1
	Q4	3,395,758	79,569	3,475,327	160,490	1.0	1.8	1.0	(7.2)
2016	Q1	3,379,127	81,204	3,460,331	161,641	(0.5)	2.1	(0.4)	0.7
	Q2	3,176,217	77,984	3,254,201	163,719	(6.0)	(4.0)	(6.0)	1.3
	Q3	3,194,444	80,678	3,275,122	141,954	0.6	3.5	0.6	(13.3)
	Q4	3,209,519	79,467	3,288,986	142,122	0.5	(1.5)	0.4	0.1
2017	Q1	3,150,273	76,116	3,226,389	140,873	(1.8)	(4.2)	(1.9)	(0.9)
	Q2	3,144,258	76,574	3,220,832	141,882	(0.2)	0.6	(0.2)	0.7
	Q3	3,013,825	83,092	3,096,917	142,816	(4.1)	8.5	(3.8)	0.7
	Q4	3,168,194	81,709	3,249,903	141,207	5.1	(1.7)	4.9	(1.1)
2018	Q1	3,089,505	92,086	3,181,591	141,835	(2.5)	12.7	(2.1)	0.4
	Q2	3,123,590	80,549	3,204,139	142,602	1.1	(12.5)	0.7	0.5
	Q3	3,161,505	84,928	3,246,433	143,213	1.2	5.4	1.3	0.4
	Q4	3,295,636	85,592	3,381,228	142,481	4.2	0.8	4.2	(0.5)
2019	Q1	3,266,527	86,810	3,353,337	140,202	(0.9)	1.4	(0.8)	(1.6)
	Q2	3,300,897	92,571	3,393,468	138,831	1.1	6.6	1.2	(1.0)
	Q3	3,733,341	106,677	3,840,018	140,491	13.1	15.2	13.2	1.2
	Q4	3,891,733	107,511	3,999,244	141,896	4.2	0.8	4.1	1.0
2020	Q1	3,656,209	122,492	3,778,701	140,722	(6.1)	13.9	(5.5)	(0.8)
	Q2	3,620,072	127,250	3,747,322	140,055	(1.0)	3.9	(0.8)	(0.5)
	Q3	3,678,386	134,809	3,813,195	139,281	1.6	5.9	1.8	(0.6)
	Q4	3,688,472	140,936	3,829,408	140,003	0.3	4.5	0.4	0.5
2021	Q1	3,733,282	143,491	3,876,773	139,930	1.2	1.8	1.2	(0.1)
	Q2	3,766,580	145,253	3,911,833	134,498	0.9	1.2	0.9	(3.9)
	Q3	3,873,541	149,468	4,023,009	136,356	2.8	2.9	2.8	1.4

Source: Botswana Communications Regulatory Authority

Note: "..." denotes no data

Note: "..." denotes no data

**Table 2: Internet Subscriptions by Quarter and Year, Q1 2011 - Q3 2021**

Year/Quarter		Internet Subscriptions					
		ADSL/ Fixed wireless	Mobile Internet	Total	ADSL/ Fixed wireless	Mobile Internet	Total
		Numbers			Quarterly % Change		
2011	Q1	14,082	189,803	203,885	...	...	...
	Q2	14,419	200,198	214,617	2.4	5.5	5.3
	Q3	14,474	224,474	238,948	0.4	12.1	11.3
	Q4	15,707	238,942	254,649	8.5	6.4	6.6
2012	Q1	16,298	263,131	279,429	3.8	10.1	9.7
	Q2	17,204	294,548	311,752	5.6	11.9	11.6
	Q3	18,166	509,926	528,092	5.6	73.1	69.4
	Q4	18,838	769,805	788,643	3.7	51.0	49.3
2013	Q1	19,388	958,074	977,462	2.9	24.5	23.9
	Q2	23,224	1,098,523	1,121,747	19.8	14.7	14.8
	Q3	25,309	1,259,561	1,284,870	9.0	14.7	14.5
	Q4	27,819	1,444,207	1,472,026	9.9	14.7	14.6
2014	Q1	22,740	1,655,921	1,678,661	(18.3)	14.7	14.0
	Q2	24,800	1,898,671	1,923,471	9.1	14.7	14.6
	Q3	26,836	2,177,007	2,203,843	8.2	14.7	14.6
	Q4	27,867	2,496,146	2,524,013	3.8	14.7	14.5
2015	Q1	34,435	1,188,640	1,223,075	23.6	(52.4)	(51.5)
	Q2	35,641	1,245,994	1,281,635	3.5	4.8	4.8
	Q3	36,272	1,295,663	1,331,935	1.8	4.0	3.9
	Q4	36,845	1,384,146	1,420,991	1.6	6.8	6.7
2016	Q1	37,366	1,360,236	1,397,602	1.4	(1.7)	(1.7)
	Q2	38,622	1,272,521	1,311,143	3.4	(6.4)	(6.2)
	Q3	39,174	1,340,549	1,379,723	1.4	5.3	5.2
	Q4	41,833	1,409,274	1,451,107	6.8	5.1	5.2
2017	Q1	45,793	1,404,065	1,449,858	9.5	(0.4)	(0.1)
	Q2	46,191	1,388,359	1,434,550	0.9	(1.1)	(1.1)
	Q3	48,811	1,294,764	1,343,575	5.7	(6.7)	(6.3)
	Q4	48,901	1,532,954	1,581,855	0.2	18.4	17.7
2018	Q1	50,514	1,523,545	1,574,059	3.3	(0.6)	(0.5)
	Q2	53,057	1,605,727	1,658,784	5.0	5.4	5.4
	Q3	54,687	1,630,364	1,685,051	3.1	1.5	1.6
	Q4	55,390	1,749,059	1,804,449	1.3	7.3	7.1
2019	Q1	55,565	1,752,547	1,716,229	0.3	0.2	(4.9)
	Q2	60,944	1,818,007	1,878,951	9.7	3.7	9.5
	Q3	61,271	1,896,424	1,957,695	0.5	4.3	4.2
	Q4	62,058	1,965,456	2,027,515	1.3	8.4	8.2
2020	Q1	55,592	2,037,359	2,092,951	(10.4)	3.7	3.2
	Q2	62,758	2,055,764	2,118,522	12.9	0.9	1.2
	Q3	66,647	2,093,386	2,160,033	6.2	1.8	2.0
	Q4	77,353	2,240,166	2,317,519	16.1	7.0	7.3
2021	Q1	82,826	2,273,363	2,357,273	8.5	1.5	1.7
	Q2	82,946	2,197,671	2,288,041	7.7	(3.3)	(2.9)
	Q3	97,395	2,374,865	2,472,260	7.8	8.1	8.1

Source: Botswana Communications Regulatory Authority  
 Note: "..." denotes no data

**Table 3: Domestic and International Telephone Traffic (Minutes) by Quarter and Year, Q1 2012 - Q3 2021**

Year/Quarter		Telephone and Short Message Service Traffic									
		Domestic Calls					International Calls			Short Message Service	
		From Fixed Telephones to Fixed Telephones	From fixed Mobile Cellular	On Net Mobile Cellular Telephone Calls	Off Net Mobile Cellular Telephone Calls	From Mobile Cellular Telephones to Fixed Telephones	Outgoing from Fixed Telephones	Incoming to Fixed Telephones	Outgoing from Mobile Cellular	On Net	Off Net
2012	Q1	44,807,471	32,067,146	305,145,554	127,875,946	86,208,330	6,895,539	3,833,461	14,943,619	188,337,052	104,721,472
	Q2	46,165,242	28,438,798	378,223,041	92,329,860	6,156,853	5,576,032	2,649,892	12,170,992	182,518,901	100,177,330
	Q3	46,058,747	33,049,118	384,652,300	126,175,464	13,173,891	4,256,524	1,466,323	16,394,509	217,903,594	121,996,704
	Q4	42,992,250	27,222,676	408,930,424	151,690,137	12,449,792	6,383,477	2,058,108	17,028,469	224,910,519	134,605,875
2013	Q1	40,847,222	25,433,762	415,805,694	130,302,022	10,494,493	6,313,054	-	14,312,615	205,754,037	72,501,473
	Q2	42,084,988	22,555,971	515,384,517	94,081,552	749,499	4,819,138	-	19,279,307	199,397,837	69,355,442
	Q3	41,987,906	41,135,405	524,145,328	128,569,278	1,603,712	7,227,225	-	20,024,820	238,054,826	84,461,578
	Q4	39,192,437	41,135,405	557,227,843	154,568,018	1,515,564	7,147,494	-	16,831,081	245,709,736	93,191,244
2014	Q1	22,992,190	27,010,100	455,270,768	141,011,907	11,881,057	2,060,221	-	15,687,913	199,930,668	129,240,709
	Q2	2,369,077,575	1,697,253,376	494,674,723	151,200,137	11,691,792	19,296,867	-	15,661,291	212,301,376	135,407,579
	Q3	39,113,572	29,184,702	528,763,242	168,612,126	12,121,336	4,198,532	-	16,605,584	226,876,144	160,659,629
	Q4	424,793,378	390,589,346	538,595,573	178,652,457	12,105,602	671,227,267	-	16,990,114	226,930,504	146,297,194
2015	Q1	38,354,146	6,327,160	520,550,402	152,171,070	6,665,492	5,553,381	-	12,818,574	206,479,961	146,257,918
	Q2	36,861,131	6,122,266	522,684,176	160,042,387	11,454,538	5,399,350	-	15,468,748	201,630,906	152,963,487
	Q3	37,557,267	29,923,404	1,867,212,151	209,491,965	11,259,715	5,525,421	-	15,857,336	196,945,120	139,614,378
	Q4	2,067,470,773	399,920,925	525,492,538	176,298,042	9,356,236	929,767,092	-	15,426,446	209,840,809	157,962,098
2016	Q1	34,965,488	6,949,306	480,585,051	154,869,695	8,737,525	4,953,934	-	13,161,451	157,239,036	93,681,272
	Q2	1,331,557,873	2,041,660,546	653,014,162	262,630,413	9,703,623	306,014,551	-	14,112,699	183,691,703	138,911,604
	Q3	2,042,864,630	2,110,094,413	476,676,551	125,662,178	8,352,695	296,405,140	-	12,267,683	184,225,029	164,463,245
	Q4	1,995,163,417	2,158,781,171	525,492,538	176,298,042	9,356,236	272,672,930	-	15,426,446	209,840,809	157,962,098
2017	Q1	1,996,616,714	2,175,125,352	353,714,166	101,619,312	5,355,226	263,327,903	-	6,945,727	133,355,242	176,904,690
	Q2	1,995,163,417	2,158,781,171	403,115,950	100,591,502	5,587,481	272,672,930	-	7,405,278	124,428,020	106,809,711
	Q3	1,839,716,566	1,862,241,472	604,005,497	157,577,607	9,423,562	238,735,341	-	11,846,344	175,981,585	164,526,833
	Q4	1,925,384,926	1,880,086,902	316,560,889	169,337,479	10,077,726	217,171,325	-	10,825,559	166,743,720	178,144,293
2018	Q1	1,743,088,946	1,870,056,276	583,152,907	135,349,759	9,727,092	204,672,812	-	10,579,435	121,595,497	151,872,112
	Q2	1,995,163,467	2,282,620,465	248,849,839	38,528,098	3,217,349	242,964,024	-	3,885,730	84,284,330	82,126,432
	Q3	1,743,088,946	1,870,056,276	730,436,647	165,312,108	6,737,448	238,735,341	-	13,482,935	174,420,541	177,695,619
	Q4	1,824,257,738	1,532,059,547	711,914,725	132,472,504	6,981,007	206,052,643	-	6,891,130	172,698,636	137,566,702
2019	Q1	1,630,877,925	1,894,426,304	1,143,172,248	135,349,759	9,727,092	169,539,136	-	10,037,404	173,606,036	131,228,779
	Q2	1,428,923,713	1,729,158,938	1,285,607,439	142,798,477	8,329,621	162,257,133	-	128,628,861	132,886,661	144,579,482
	Q3	1,791,070,062	2,038,453,064	1,011,056,590	171,590,589	9,422,874	224,689,042	-	9,015,650	144,579,482	91,645,479
	Q4	1,874,473,146	1,670,020,051	985,418,896	137,503,751	9,763,511	193,929,272	-	8,858,345	143,152,172	157,855,498
2020	Q1	1,455,039,053	1,812,340,439	1,100,308,384	187,889,689	62,961,837	161,973,703	-	8,216,079	130,492,293	80,274,410
	Q2	983,190,446	1,462,730,934	1,644,389,257	170,571,174	47,483,422	194,070,891	-	6,748,608	106,028,158	63,583,841
	Q3	1,246,969,527	1,630,499,844	1,777,231,669	194,247,474	59,059,963	107,965,302	-	6,865,472	109,272,506	66,012,639
	Q4	1,206,361,297	1,763,959,687	1,787,293,432	208,023,056	60,450,409	103,480,411	-	6,858,785	110,583,362	68,478,993
2021	Q1	18,627,470	27,203,594	1,818,879,193	189,090,907	55,766,233	1,482,397	-	6,200,439	103,449,026	61,083,339
	Q2	17,304,785	25,735,141	1,860,078,597	185,945,710	52,801,580	1,405,280	-	5,980,189	97,026,663	56,012,965
	Q3	15,498,011	24,958,082	2,074,516,636	178,181,951	50,780,236	1,300,567	-	5,818,050	100,331,575	55,579,176

Source: Botswana Communications Regulatory Authority

Note: "-" denotes zero

**Table 4: Contribution of Information & Communication Technology (ICT) and Postal & Courier Services To Gross Domestic Product (GDP) by Quarter and Year, Q1 2015 - Q3 2021**

Year/ Quarter	Current Prices									Constant Prices					
	Total GDP (P Million)	ICT Value Added (P Million)	ICT Contribution To GDP (%)	ICT Annual Growth Rates (%)	Postal & Courier Services Value Added (P Million)	Postal & Courier Services Contri- bution To GDP (%)	Postal & Courier Services Annual Growth Rates (%)	Total GDP (P Million)	ICT Value Added (P Million)	ICT Contribution To GDP (%)	ICT Annual Growth Rates (%)	Postal & Courier Services Value Added (P Million)	Postal & Courier Services Contri- bution To GDP (%)	Postal & Courier Services Annual Growth Rates (%)	
2015	Q1	34,565.5	864.9	2.5	6.7	42.9	0.1	1.0	39,081.1	930.3	2.4	2.5	49.6	0.1	1.0
	Q2	34,995.1	887.6	2.5	7.4	40.6	0.1	-8.6	39,221.6	932.5	2.4	1.9	42.5	0.1	-17.2
	Q3	35,024.8	917.1	2.6	9.5	51.8	0.1	2.0	36,960.9	952.0	2.6	3.1	51.8	0.1	-11.8
	Q4	32,467.5	925.8	2.9	10.5	47.2	0.1	12.5	38,108.8	955.0	2.5	3.7	47.2	0.1	-2.6
2016	Q1	38,223.3	933.4	2.4	7.9	53.4	0.1	24.5	40,475.8	944.8	2.3	1.6	53.4	0.1	7.7
	Q2	41,068.0	973.4	2.4	9.7	47.2	0.1	16.1	40,996.7	973.0	2.4	4.4	47.2	0.1	10.9
	Q3	42,994.8	1,009.1	2.3	10.0	36.8	0.1	-29.0	40,601.1	1004.9	2.5	5.6	36.8	0.1	-29.0
	Q4	42,132.1	1,020.6	2.4	10.2	41.5	0.1	-12.2	42,344.6	1013.7	2.4	6.1	41.5	0.1	-12.2
2017	Q1	40,576.8	1,035.1	2.6	10.9	42.3	0.1	-20.8	41,756.3	1016.5	2.4	7.6	42.3	0.1	-20.8
	Q2	41,239.2	1,042.5	2.5	7.1	38.6	0.1	-18.3	42,462.8	1015.5	2.4	4.4	38.6	0.1	-18.3
	Q3	42,637.0	1,072.3	2.5	6.3	62.9	0.1	71.1	43,426.4	1033.5	2.4	2.8	57.8	0.1	57.2
	Q4	42,193.7	1,086.2	2.6	6.4	55.2	0.1	33.1	43,535.3	1034.8	2.4	2.1	43.6	0.1	5.3
2018	Q1	41,900.7	1,106.0	2.6	6.8	55.0	0.1	30.0	43,344.4	1028.9	2.4	1.2	43.5	0.1	2.8
	Q2	43,099.8	1,117.3	2.6	7.2	54.2	0.1	40.4	44,861.4	1022.6	2.3	0.7	42.8	0.1	11.0
	Q3	44,642.5	1,141.9	2.6	6.5	58.6	0.1	-6.9	44,554.9	1045.6	2.3	1.2	46.3	0.1	-19.9
	Q4	44,082.4	1,158.8	2.6	6.7	59.8	0.1	8.3	45,592.2	1060.1	2.3	2.4	47.3	0.1	8.3
2019	Q1	44,705.5	1,185.5	2.7	7.2	64.6	0.1	17.4	45,318.8	1077.1	2.4	4.7	51.0	0.1	17.4
	Q2	45,146.2	1,195.3	2.6	7.0	56.5	0.1	4.4	46,111.4	1076.3	2.3	5.3	44.7	0.1	4.4
	Q3	45,811.3	1,224.0	2.7	7.2	54.6	0.1	-6.8	46,194.4	1098.9	2.4	5.1	43.2	0.1	-6.8
	Q4	43,916.7	1,238.8	2.8	6.9	53.8	0.1	-10.0	46,137.1	1110.8	2.4	4.8	42.5	0.1	-10.0
2020	Q1	46,066.4	1,282.3	2.8	8.2	59.8	0.1	-7.4	45,856.1	1134.4	2.5	5.3	47.3	0.1	-7.4
	Q2	36,233.7	1,185.9	3.3	-0.8	49.1	0.1	-13.1	33,710.3	1046.1	3.1	-2.8	38.8	0.1	-13.1
	Q3	43,641.8	1,255.4	2.9	2.6	55.9	0.1	2.4	44,125.9	1104.6	2.5	0.5	44.2	0.1	2.4
	Q4	45,100.0	1,341.4	3.0	8.3	63.0	0.1	17.1	44,033.5	1163.3	2.6	4.7	43.9	0.1	3.1
2021	Q1	46,929.4	1,366.8	2.9	6.6	69.4	0.1	16.1	46,314.1	1179.3	2.5	4.0	48.3	0.1	2.1
	Q2	48,684.0	1,360.0	2.8	14.7	57.0	0.1	16.0	46,282.1	1146.3	2.5	9.6	39.6	0.1	2.1
	Q3	49,260.5	1,348.5	2.7	7.4	62.1	0.1	11.1	47,833.7	1130.9	2.4	2.4	43.2	0.1	-2.2

Source: National Accounts, Statistics Botswana

## APPENDIX II: DEFINITIONS

### 1.1 Fixed Telephone

Fixed telephone lines refer to a telephone line connecting a customer's terminal equipment (e.g. telephone set, facsimile machine) to the public switched telephone network (PSTN) and which has a dedicated port on a telephone exchange. This term is synonymous with the terms main station or Direct Exchange Line (DEL) that are commonly used in telecommunication documents. It may not be the same as an access line or a subscriber.

### 1.2 Mobile Cellular Phone

A mobile cellular phone refers to a portable telephone subscribing to a public mobile telephone service using cellular technology, which provides access to the PSTN. This includes analogue and digital cellular systems, as well as IMT-2000 (3G). Users of both post-paid subscriptions and pre-paid accounts are included.

### 1.3 Internet

A world-wide public computer network which provides access to a number of communication services including services including the World – Wide Web and carries email, news, entertainment and data files. Access may be any device enabling internet access (not only a computer). It may also be by mobile phone. PDA, Games Machine, Digital TV etc.

### 1.4 Asymmetric Digital Subscriber line (ADSL)

**Asymmetric digital subscriber line (ADSL)** is a type of Digital Subscriber Line (DSL) technology, a data communications technology that enables faster data transmission over copper telephone lines.

### 1.5 Domestic Fixed Telephone Traffic (Minutes)

It consists of effective (completed) fixed telephone line traffic exchanged within the local charging area in which the calling station is situated. This is the area within which one subscriber can call another on payment of the local charge (if applicable). This indicator should be reported in the number of minutes.

### 1.6 National (fixed) Trunk Telephone Traffic (Minutes)

National (fixed) trunk (toll) traffic consists of effective (completed) fixed national telephone traffic exchange with a station outside the local charging area of the calling station. The indicator should be reported as the number of minutes of traffic.

### 1.7 International Outgoing Fixed Telephone Traffic (Minutes)

This covers the effective (completed) fixed traffic originating in a given country to destinations outside that country. The indicator should be reported as the number of minutes of traffic.

### 1.8 International Incoming Fixed Telephone Traffic (Minutes)

Effective (completed) fixed traffic originating outside the country with a destination inside the country. The indicator should be reported as the number of minutes of traffic.

### 1.9 Outgoing National Mobile Telephone Traffic (Minutes)

Total number of minutes made by mobile subscribers within a country (including minutes to fixed lines and minutes to other mobile subscribers).

### 1.10 SMS Traffic

Total number of mobile Short Message Service (SMS) sent, both to national and international destinations



# **Information & Communication Technology**

Stats Brief Q3, 2021

The background of the central section is a dark blue field with a grid of hexagons. Each hexagon contains a small, light blue icon representing various concepts: a person with a speech bubble, a cloud with a downward arrow, a magnifying glass over a person, a person with a speech bubble, a cloud with a downward arrow, an hourglass, a person with a magnifying glass, a person with a speech bubble, a cloud with a downward arrow, and an hourglass. The overall theme is information and communication technology.

# Information & Communication Technology

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