

# Information & Communication Technology

## Stats Brief Q4, 2021

ICT STATS BRIEF Q4, 2021 **1.**

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**2.** ICT STATS BRIEF Q4, 2021

# Information & Communication Technology

## Stats Brief Q4, 2021

ICT STATS BRIEF Q4, 2021 **3.**

##### INTRODUCTION

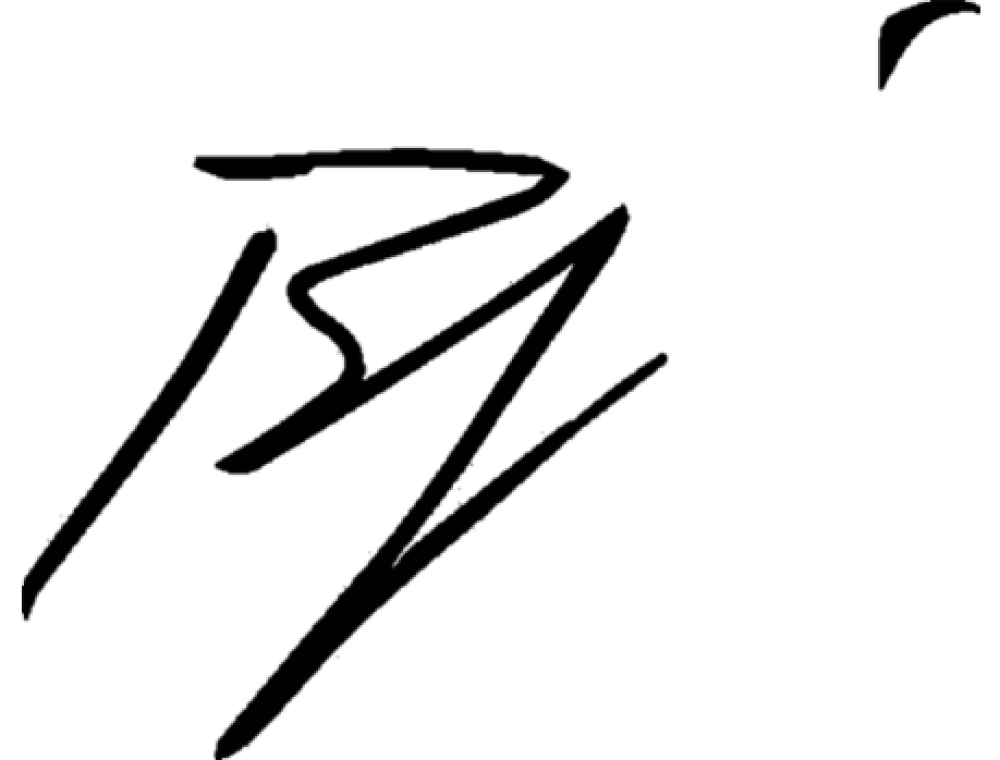
This Stats Brief presents Botswana Information and Communications Technology Statistics for Q4 2021. It contains statistics relating to ICT infrastructure and services, as well as the contribution of Information and Communication Technology and Postal & Courier sectors to the economy.

The fixed telephone line subscriptions decreased by 2.9 percent in Q4 2021, from 136,356 which was registered in Q3 2021 to 132,457 in Q4 2021. Mobile cellular telephone subscriptions went up by 3.4 percent in the quarter, from 4,023,009 registered in Q3 2021 to 4,160,553. Internet subscriptions also increased in Q4 2021 by 3.4 percent, from 2,472,260 subscriptions in Q3 2021 to 2,557,538.

Fixed to mobile telephone domestic calls traffic in minutes went up by 3.1 percent in Q4 2021, from 25.0 million minutes registered in Q3 2021 to 25.7 million minutes. Mobile to fixed telephone domestic calls traffic also increased by 3.1 percent in Q4 2021. However, outgoing international calls traffic from both fixed and mobile telephones decreased in Q4 2021, by 6.0 percent and 9.2 percent respectively.

The contribution of the ICT sector to the economy stood at 2.8 percent of total GDP at current prices in Q4 2021, while that of Postal and Courier Services amounted to 0.1 percent. At constant prices, the ICT sector contributed P1, 187.7 million of value added which is 2.6 percent of total GDP. The Postal and Courier Services Sector produced a value added of P45.0 million at constant prices, thus contributing 0.1 percent of total GDP.

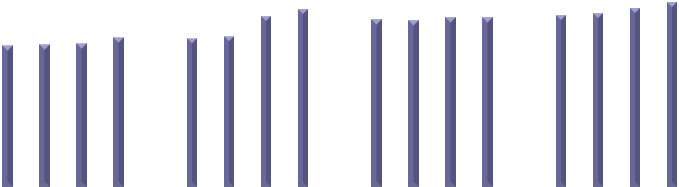
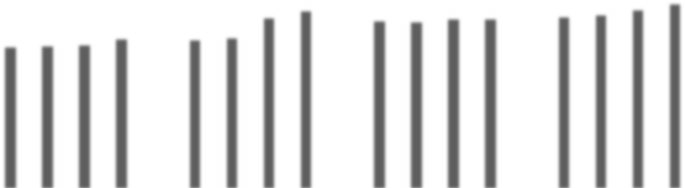
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Dr. Burton Mguni **Statistician General June 2022**

##### TELECOMMUNICATION

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



**Figure 1: Telephone Subscriptions by Quarter, Q1 2018 - Q4 2021**

4,500

4,000

3,500

3,000

2,500

2,000

1,500

1,000

500

-

Q1 Q2

Q3

2018

Q4

Q1 Q2

Q3

2019

Q4

Q1 Q2

Q3

2020

Q4

Q1 Q2 Q3 Q4

2021

**Year and Quarter**

**Mobile Cell ular**

**Fix ed Telephone**

**Telephone Subscriptions ('000)**

The fixed telephone line subscriptions declined by 2.9 percent in Q4 2021, from 136,356 subscriptions realized in Q3 2021 to 132,457. The mobile cellular telephone subscriptions on the other hand increased from 4,023,009 recorded in Q3 2021 to 4,160,553; registering a 3.4 percent increase.

Comparing Q4 2021 to the same quarter of 2020 (Q4 2020), fixed telephone line subscriptions decreased by

5.4 percent while mobile cellular telephone subscriptions increased by 8.6 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 - Q4 2021**

**2020 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Telephone Subscriptions | **Quarter 1** | **Quarter 2** | **Quarter 3** | **Quarter 4** | **Quarter 1** | **Quarter 2** | **Quarter 3** | **Quarter 4** |
| Fixed Telephone | 140,722 | 140,055 | 139,281 | *Numbers*  140,003 | 139,930 | 134,498 | 136,356 | 132,457 |
| 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 | 4,009,022 |
| Post Paid | 122,492 | 127,250 | 134,809 | 140,936 | 143,491 | 145,253 | 149,468 | 151,531 |
| **Total** | **3,778,701** | **3,747,322** | **3,813,195** | **3,829,408** | **3,876,773** | **3,911,833** | **4,023,009** | **4,160,553** |
| *Quarterly Percentage Change* | | | | | | | | |
| Fixed Telephone | (0.8) | (0.5) | (0.6) | 0.5 | (0.1) | (3.9) | 1.4 | (2.9) |
| Mobile Cellular Telephone Pre-Paid | (6.1) | (1.0) | 1.6 | 0.3 | 1.2 | 0.9 | 2.8 | 3.5 |
| Post Paid | 13.9 | 3.9 | 5.9 | 4.5 | 1.8 | 1.2 | 2.9 | 1.4 |
| **Total** | **(5.5)** | **(0.8)** | **1.8** | **0.4** | **1.2** | **0.9** | **2.8** | **3.4** |

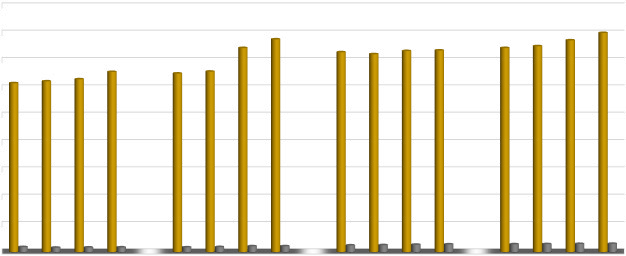
***Source: Information and Communication Technology Statistics, Statistics Botswana Note: “…” denotes no data***

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

Both pre-paid and post-paid mobile cellular telephone subscriptions increased in Q4 2021. Pre-paid mobile cellular telephone subscriptions rose by 3.5 percent from 3,873,541 registered in Q3 2021 to 4,009,022. Post-paid mobile cellular telephone subscriptions went up by 1.4 percent in Q4 2021, from 149,468 in Q3 2021 to 151,531. Details are shown in **Figure 2** below and **Table 1** in the **Appendix**.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Q1 Q2 Q3 Q4  2018 | | | | | Q1 Q2 Q3 Q4  2019 | | | | | Q1 Q2 Q3 Q4  2020 | | | | | Q1 Q2 Q3 Q4 2021 | | | |
| Pre-Paid | 3, 090 | 3, 124 | 3, 162 | 3, 296 |  | 3, 267 | 3, 301 | 3, 733 | 3, 892 |  | 3, 656 | 3, 620 | 3, 678 | 3, 688 |  | 3, 733 | 3, 767 | 3, 874 | 4, 009 |
| Post Paid | 92 | 81 | 85 | 86 |  | 87 | 93 | 107 | 108 |  | 122 | 127 | 135 | 141 |  | 143 | 145 | 149 | 152 |

###### Internet Subscriptions



**Figure 2: Pre-Paid and Post-Paid Mobile Cellular Telephone Subscriptions by Quarter, Q1 2018 - Q4 2021**

4,500

4,000

3,500

3,000

**Pre-P ai d**

2,500

2,000

**Post Paid**

1,500

1,000

500

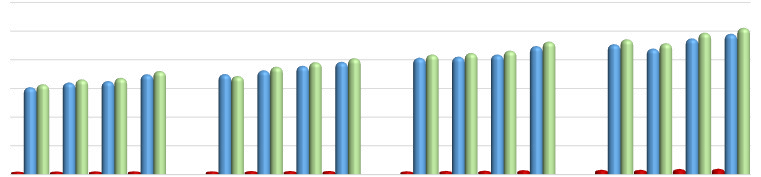
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**Telephone Subscriptions ('000)**

Total internet subscriptions (i.e. mobile internet plus fixed internet subscriptions) increased by 3.4 percent in Q4 2021, from 2,472,260 registered in Q3 2021 to 2,557,538. This was a result of increases in both mobile and fixed internet subscriptions. Mobile internet subscriptions rose from 2,374,865 subscriptions in Q3 2021 to 2,455,623 in Q4 2021 while fixed internet subscriptions went up from 97,395 subscriptions to 101,915; thereby increasing by

3.4 and 4.6 percent respectively.

Compared to the same quarter of the previous year, Q4 2021 realized an increase of 10.4 percent in total internet subscriptions, with both mobile internet subscriptions and fixed internet subscriptions registering increases of 9.6 and 31.8 percent respectively. Details are as indicated in **Figure 3** below and **Table 2** in the **Appendix**.



**Figure 3: Internet Subscriptions by Quarter, Q1 2018 - Q4 2021**

3,000

2,500

2,000

1,500

1,000

500

-

Q1 Q2

Q3

2018

Q4

Q1 Q2

Q3

2019

Q4

Q1 Q2

Q3

2020

Q4

Q1 Q2 Q3 Q4

2021

**ADSL/ Fixed wireless**

**Year and Quarter**

**Mobile Internet**

**Total Internet Subscriptions**

**Internet Subscriptions ('000)**

###### 4 Telephone Traffic

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

On-net fixed telephone domestic calls (Fixed to fixed telephone calls) traffic in minutes increased by 1.8 percent in Q4 2021, from 15.5 million minutes registered in Q3 2021 to 15.8 million in Q4 2021.

Off net fixed telephone domestic calls (Fixed to mobile telephone calls) traffic increased by 3.1 percent in Q4 2021, from 25.0 million minutes in Q3 2021 to 25.7 million minutes.

With regard to mobile telephone domestic calls traffic, on-net mobile telephone traffic declined by 3.7 percent in Q4 2021 while off-net mobile telephone traffic went up by 2.4 percent. Mobile to fixed telephone traffic increased by 3.1 percent in Q4 2021.

International outgoing fixed telephone calls traffic declined by 6.0 percent in Q4 2021, from 1.3 million minutes in Q3 2021 to 1.2 million. Outgoing international mobile telephone calls traffic also fell by 9.2 percent in Q4 2021, from 5.8 million minutes registered in Q3 2021 to 5.3 million minutes.

On-net short message services (SMS) and off-net SMS traffic both increased by 5.3 and 4.3 percent respectively in Q4 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 - Q4 2021**

**2020 2021**

|  |  |  |
| --- | --- | --- |
| **Telephone and Short Message Service Traffic** | **Quarter 1**  **Quarter 2**  **Quarter 3**  **Quarter 4** | **Quarter 1**  **Quarter 2**  **Quarter 3**  **Quarter 4** |

***Numbers (‘000 000)***

**Domestic Calls**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| From Fixed Telephones to Fixed Telephones | 24.3 | 16.4 | 20.8 | 20.1 | 18.6 | 17.3 | 15.5 | 15.8 |
| From fixed Telephones to Mobile Cellular Telephones | 30.2 | 24.4 | 27.2 | 29.4 | 27.2 | 25.7 | 25.0 | 25.7 |
| 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 | 1998.2 |
| Off Net Mobile Cellullar Telephone Calls | 187.9 | 170.6 | 194.2 | 208.0 | 189.1 | 185.9 | 178.2 | 182.5 |
| From Mobile Cellular Telephones to Fixed Telephones | 63.0 | 47.5 | 59.1 | 60.5 | 55.8 | 52.8 | 50.8 | 52.4 |

**International Calls**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Outgoing from Fixed Telephones | 2.7 | 3.2 | 1.8 | 1.7 | 1.5 | 1.4 | 1.3 | 1.2 |
| Incoming to Fixed Telephones | - | - | - | - | - | - | - | - |
| Outgoing from Mobile Cellular Telephones | 8.2 | 6.7 | 6.9 | 6.9 | 6.2 | 6.0 | 5.8 | 5.3 |
| **Short Message Service**  On Net | 130.5 | 106.0 | 109.3 | 110.6 | 103.4 | 97.0 | 100.3 | 105.7 |
| Off Net | 80.3 | 63.6 | 66.0 | 68.5 | 61.1 | 56.0 | 55.6 | 58.0 |
| ***Quarterly Percentage Change***  **Domestic Calls** | | | | | | | | |
| From Fixed Telephones to Fixed Telephones | … | (32.4) | 26.8 | (3.3) | (7.4) | (7.1) | (10.4) | 1.8 |
| From fixed Telephones to Mobile Cellular Telephones | … | (19.3) | 11.5 | 8.2 | (7.5) | (5.4) | (3.0) | 3.1 |
| On Net Mobile Cellular Telephone Calls | … | 49.4 | 8.1 | 0.6 | 1.8 | 2.3 | 11.5 | (3.7) |
| Off Net Mobile Cellullar Telephone Calls | … | (9.2) | 13.9 | 7.1 | (9.1) | (1.7) | (4.2) | 2.4 |
| From Mobile Cellular Telephones to Fixed Telephones | … | (24.6) | 24.4 | 2.4 | (7.7) | (5.3) | (3.8) | 3.1 |
| **International Calls**  Outgoing from Fixed Telephones | … | 19.8 | (44.4) | (4.2) | (14.0) | (5.2) | (7.5) | (6.0) |
| Incoming to Fixed Telephones | … | - | - | - | - | - | 1.0 | 2.0 |
| Outgoing from Mobile Cellular Telephones | … | (17.9) | 1.7 | (0.1) | (9.6) | (3.6) | (2.7) | (9.2) |
| **Short Message Service**  On Net | … | (18.7) | 3.1 | 1.2 | (6.5) | (6.2) | 3.4 | 5.3 |
| Off Net | … | (20.8) | 3.8 | 3.7 | (10.8) | (8.3) | (0.8) | 4.3 |

***Source: Information and Communication Technology Statistics, Statistics Botswana Note: “-” denotes zero***

***“…” denotes no data***

##### 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 Q4 2021, the contribution of the ICT sector to the economy stood at 2.8 percent of total GDP at current prices. The ICT sector’s value added at current prices amounted to P1, 423.5 million. Postal and Courier Services sector’s value added amounted to P64.7 million at current prices, which constituted 0.1 percent of total GDP in Q4 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 - Q4 2021**

**2020 2021**

**Current Prices**

**Communication & Postal Services**

**Quarter 1**

**Quarter 2**

**Quarter 3**

**Quarter 4**

**Quarter 1**

**Quarter 2**

**Quarter 3**

**Quarter 4**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total GDP (P Million) | 46,066.4 | 36,233.7 | 43,641.8 | 45,100.0 | 46,929.4 | 48,667.3 | 49,286.8 | 50,408.8 |
| 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 | 1,423.5 |
| ICT Contribution To GDP (%) | 2.8 | 3.3 | 2.9 | 3.0 | 2.9 | 2.8 | 2.7 | 2.8 |
| ICT Annual Growth Rates (%) | 8.2 | -0.8 | 2.6 | 8.3 | 6.6 | 14.7 | 7.4 | 6.1 |
| Postal & Courier Services Value Added (P Million) | 59.8 | 49.1 | 55.9 | 63.0 | 69.4 | 57.0 | 62.1 | 64.7 |
| Postal & Courier Services Contribution To GDP (%) | 0.1 | 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 | 2.7 |
| **Constant Prices**  Total GDP (P Million) | 45,856.1 | 33,710.3 | 44,125.9 | 44,033.5 | 46,314.1 | 46,225.6 | 47,821.6 | 46,485.3 |
| ICT Value Added (P Million) | 1,134.4 | 1,046.1 | 1,104.6 | 1,163.3 | 1,179.3 | 1,146.3 | 1,130.9 | 1,187.7 |
| ICT Contribution To GDP (%) | 2.5 | 3.1 | 2.5 | 2.6 | 2.5 | 2.5 | 2.4 | 2.6 |
| ICT Annual Growth Rates (%) | 5.3 | -2.8 | 0.5 | 4.7 | 4.0 | 9.6 | 2.4 | 2.1 |
| Postal & Courier Services Value Added (P Million) | 47.3 | 38.8 | 44.2 | 43.9 | 48.3 | 39.6 | 43.2 | 45.0 |
| Postal & Courier Services Contribution To GDP (%) | 0.1 | 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 | 2.7 |

***Source: National Accounts, Statistics Botswana***

##### APPENDIX I

**Table 1: Telephone Subscriptions by Quarter and Year, Q1 2012 - Q4 2021**

**Telephone Subscriptions**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Mobile Cellular Mobile Cellular** | | | | | | | | | |
|  | | |  |  | **Fixed** |  |  |  | **Fixed** |
| **Pre-Paid** | | | **Post Paid** | **Total** | **Telephone** | **Pre-Paid** | **Post Paid** | **Total** | **Telephone** |
| **Year/Quarter *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* |
|  | Q4 | 4,009,022 | 151,531 | 4,160,553 | 132,457 | *3.5* | *1.4* | *3.4* | *(2.9)* |

***Source: Botswana Communications Regulatory Authority Note: “…” denotes no data***

**Table 2: Internet Subscriptions by Quarter and Year, Q1 2011 - Q4 2021**

**Internet Subscriptions**

**Year/Quarter**

**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* |
|  | Q4 | 101,915 | 2,455,623 | 2,557,538 | *4.6* | *3.4* | *3.4* |

***Source: Botswana Communications Regulatory Authority Note: “…” denotes no data***

**Table 3: Domestic and International Telephone Traffic (Minutes) by Quarter and Year, Q1 2017 - Q4 2021**

**Domestic Calls**

**Telephone and Short Message Service Traffic**

**International Calls**

**Short Message Service**

**From Fixed From fixed**

**Telephones to Telephones to On Net Mobile Fixed Mobile Cellular Cellular Tele-Telephones Telephones phone Calls**

**Off Net From Mobile Mobile Cellular Cellullar Telephones to**

**Outgoing Incoming to Outgoing from**

**Telephone**

**Fixed**

**from Fixed**

**Fixed Mobile Cellular**

**Calls Telephones**

**Telephones Telephones Telephones**

**On Net Off Net**

Year/Quarter

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2017 | Q1 | 33,276,945 | 36,252,089 | 353,714,166 | 101,619,312 | 5,355,226 | 4,388,798 | - | 6,945,727 | 133,355,242 | 176,904,690 |
|  | Q2 | 32,080,840 | 33,607,763 | 403,115,950 | 100,591,502 | 5,587,481 | 4,258,122 | - | 7,405,278 | 124,428,020 | 106,809,711 |
|  | Q3 | 30,661,943 | 31,037,358 | 604,005,497 | 157,577,607 | 9,423,562 | 3,978,922 | - | 11,846,344 | 175,981,585 | 164,526,833 |
|  | Q4 | 29,376,676 | 31,334,782 | 316,560,889 | 169,337,479 | 10,077,726 | 3,619,522 | - | 10,825,559 | 166,743,720 | 178,144,293 |
| 2018 | Q1 | 29,051,482 | 31,167,605 | 583,152,907 | 135,349,759 | 9,727,092 | 3,411,214 | - | 10,579,435 | 121,595,497 | 151,872,112 |
|  | Q2 | 40,118,866 | 31,847,458 | 248,849,839 | 38,528,098 | 3,217,349 | 4,520,062 |  | 3,885,730 | 84,284,330 | 82,126,432 |
|  | Q3 | 29,051,482 | 31,167,605 | 730,436,647 | 165,312,108 | 6,737,448 | 3,411,214 | - | 13,482,935 | 174,420,541 | 177,695,619 |
|  | Q4 | 27,180,726 | 32,056,516 | 711,914,725 | 132,472,504 | 6,981,007 | 3,434,211 | - | 6,891,130 | 172,698,636 | 137,566,702 |
| 2019 | Q1 | 27,181,299 | 31,573,772 | 1,143,172,248 | 135,349,759 | 9,727,092 | 2,825,652 | - | 10,037,404 | 173,606,036 | 131,228,779 |
|  | Q2 | 23,815,395 | 28,819,316 | 1,285,607,439 | 142,798,477 | 8,329,621 | 2,704,286 | - | 12,628,861 | 132,886,661 | 144,579,482 |
|  | Q3 | 29,851,168 | 33,974,218 | 1,011,056,590 | 171,590,589 | 9,422,874 | 3,744,817 | - | 9,015,650 | 144,579,482 | 91,645,479 |
|  | Q4 | 22,794,450 | 26,496,430 | 985,418,896 | 137,503,751 | 9,763,511 | 2,653,915 | - | 8,858,345 | 143,152,172 | 157,855,498 |
| 2020 | Q1 | 24,250,651 | 30,205,674 | 1,100,308,384 | 187,889,689 | 62,961,837 | 2,699,562 | - | 8,216,079 | 130,492,293 | 80,274,410 |
|  | Q2 | 16,386,507 | 24,378,849 | 1,644,389,257 | 170,571,174 | 47,483,422 | 3,234,515 | - | 6,748,608 | 106,028,158 | 63,583,841 |
|  | Q3 | 20,782,825 | 27,174,997 | 1,777,231,669 | 194,247,474 | 59,059,963 | 1,799,422 | - | 6,865,472 | 109,272,506 | 66,012,639 |
|  | Q4 | 20,106,022 | 29,399,328 | 1,787,293,432 | 208,023,056 | 60,450,409 | 1,724,674 | - | 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 |
|  | Q4 | 15,776,249 | 25,739,964 | 1,998,217,589 | 182,451,428 | 52,371,979 | 1,222,445 | - | 5,279,882 | 105,694,654 | 57,968,568 |

***Source: Botswana Communications Regulatory Authority Note: “-” denotes zero***

**Table 4: Contribution of Postal & Courier Services and Information & Communication Technology (ICT) To Gross Domestic Product by Quarter and Year, Q1 2015 - Q4 2021**

**Current Prices Constant Prices**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year/Quarter** |  | **Total GDP (P Million)** | **Postal & Courier Ser­vices Value Added (P Million)** | **Postal & Courier Ser­vices Contribution** | **To GDP (%)**  **Postal & Courier Services Annual Growth Rates (%)** | **ICT Value Added (P Million)** | **ICT Contribution To GDP (%)** | **ICT Annual Growth Rates (%)** | **Total GDP (P Million)** | **Postal & Courier Ser­vices Value Added (P Million)** | **Postal & Courier Ser­vices Contribution** | **Postal & Courier Services Annual Growth Rates (%)** | **ICT Value Added (P Million)** | **ICT Contribution To GDP (%)** | **ICT Annual Growth Rates (%)** |
| 2015 | Q1 | 34,566.0 | 42.9 | 0.1 | 1.0 | 947.3 | 2.7 | -32.4 | 39,016.5 | 49.6 | 0.1 | 1.0 | 1,019.1 | 2.6 | -35.1 |
|  | Q2 | 35,218.2 | 40.6 | 0.1 | -8.6 | 1,096.7 | 3.1 | -5.4 | 39,369.5 | 42.5 | 0.1 | -17.2 | 1,152.4 | 2.9 | -10.3 |
|  | Q3 | 35,180.6 | 51.8 | 0.1 | 2.0 | 1,038.3 | 3.0 | -20.4 | 37,051.7 | 51.8 | 0.1 | -11.8 | 1,077.9 | 2.9 | -25.0 |
|  | Q4 | 32,574.4 | 47.2 | 0.1 | 12.5 | 999.3 | 3.1 | -4.8 | 38,171.3 | 47.2 | 0.1 | -2.6 | 1,030.9 | 2.7 | -10.7 |
| 2016 | Q1 | 38,467.9 | 53.4 | 0.1 | 24.5 | 1,134.2 | 2.9 | 19.7 | 40,696.4 | 53.4 | 0.1 | 7.7 | 1,148.2 | 2.8 | 12.7 |
|  | Q2 | 41,054.8 | 47.2 | 0.1 | 16.1 | 965.9 | 2.4 | -11.9 | 40,987.2 | 47.2 | 0.1 | 10.9 | 965.5 | 2.4 | -16.2 |
|  | Q3 | 42,833.5 | 36.8 | 0.1 | -29.0 | 878.5 | 2.1 | -15.4 | 40,456.1 | 36.8 | 0.1 | -29.0 | 874.9 | 2.2 | -18.8 |
|  | Q4 | 42,062.0 | 41.5 | 0.1 | -12.2 | 957.9 | 2.3 | -4.2 | 42,278.6 | 41.5 | 0.1 | -12.2 | 947.9 | 2.2 | -8.1 |
| 2017 | Q1 | 40,457.9 | 42.3 | 0.1 | -20.8 | 919.0 | 2.3 | -19.0 | 41,618.1 | 42.3 | 0.1 | -20.8 | 902.5 | 2.2 | -21.4 |
|  | Q2 | 41,167.9 | 38.6 | 0.1 | -18.3 | 963.7 | 2.3 | -0.2 | 42,378.4 | 38.6 | 0.1 | -18.3 | 938.8 | 2.2 | -2.8 |
|  | Q3 | 42,481.7 | 62.9 | 0.1 | 71.1 | 936.7 | 2.2 | 6.6 | 43,273.2 | 57.8 | 0.1 | 57.2 | 902.9 | 2.1 | 3.2 |
|  | Q4 | 42,365.9 | 55.2 | 0.1 | 33.1 | 1,243.3 | 2.9 | 29.8 | 43,730.9 | 43.6 | 0.1 | 5.3 | 1,184.4 | 2.7 | 25.0 |
| 2018 | Q1 | 41,663.7 | 55.0 | 0.1 | 30.0 | 973.9 | 2.3 | 6.0 | 43,211.9 | 43.5 | 0.1 | 2.8 | 906.2 | 2.1 | 0.4 |
|  | Q2 | 42,866.3 | 54.2 | 0.1 | 40.4 | 1,025.8 | 2.4 | 6.4 | 44,768.1 | 42.8 | 0.1 | 11.0 | 938.9 | 2.1 | 0.0 |
|  | Q3 | 44,301.5 | 58.6 | 0.1 | -6.9 | 1,006.3 | 2.3 | 7.4 | 44,402.7 | 46.3 | 0.1 | -19.9 | 921.6 | 2.1 | 2.1 |
|  | Q4 | 43,693.8 | 59.8 | 0.1 | 8.3 | 1,019.8 | 2.3 | -18.0 | 45,424.5 | 47.3 | 0.1 | 8.3 | 933.0 | 2.1 | -21.2 |
| 2019 | Q1 | 44,305.7 | 64.6 | 0.1 | 17.4 | 1,087.1 | 2.5 | 11.6 | 45,199.5 | 51.0 | 0.1 | 17.4 | 987.8 | 2.2 | 9.0 |
|  | Q2 | 44,749.2 | 56.5 | 0.1 | 4.4 | 1,054.3 | 2.4 | 2.8 | 45,911.8 | 44.7 | 0.1 | 4.4 | 949.5 | 2.1 | 1.1 |
|  | Q3 | 45,513.6 | 54.6 | 0.1 | -6.8 | 1,043.7 | 2.3 | 3.7 | 45,986.9 | 43.2 | 0.1 | -6.8 | 937.1 | 2.0 | 1.7 |
|  | Q4 | 43,912.0 | 53.8 | 0.1 | -10.0 | 1,155.7 | 2.6 | 13.3 | 46,030.2 | 42.5 | 0.1 | -10.0 | 1,036.2 | 2.3 | 11.1 |
| 2020 | Q1 | 46,464.0 | 59.8 | 0.1 | -7.4 | 1,197.2 | 2.6 | 10.1 | 45,746.7 | 47.3 | 0.1 | -7.4 | 1,059.2 | 2.3 | 7.2 |
|  | Q2 | 36,585.0 | 49.1 | 0.1 | -13.1 | 1,103.3 | 3.0 | 4.6 | 33,960.0 | 38.8 | 0.1 | -13.1 | 973.4 | 2.9 | 2.5 |
|  | Q3 | 43,873.2 | 55.9 | 0.1 | 2.4 | 1,174.3 | 2.7 | 12.5 | 43,978.6 | 44.2 | 0.1 | 2.4 | 1,033.3 | 2.3 | 10.3 |
|  | Q4 | 45,630.2 | 63.0 | 0.1 | 17.1 | 1,251.7 | 2.7 | 8.3 | 43,890.2 | 43.9 | 0.1 | 3.1 | 1,085.5 | 2.5 | 4.8 |
| 2021 | Q1 | 47,739.3 | 69.4 | 0.1 | 16.1 | 1,275.7 | 2.7 | 6.6 | 46,078.2 | 48.3 | 0.1 | 2.1 | 1,100.8 | 2.4 | 3.9 |
|  | Q2 | 48,667.3 | 57.0 | 0.1 | 16.0 | 1,360.0 | 2.8 | 14.7 | 46,225.6 | 39.6 | 0.1 | 2.1 | 1,146.3 | 2.5 | 9.6 |
|  | Q3 | 49,286.8 | 62.1 | 0.1 | 11.1 | 1,348.5 | 2.7 | 7.4 | 47,821.6 | 43.2 | 0.1 | -2.2 | 1,130.9 | 2.4 | 2.4 |
|  | Q4 | 50,408.8 | 64.7 | 0.1 | 2.7 | 1,423.5 | 2.8 | 6.1 | 46,485.3 | 45.0 | 0.1 | 2.7 | 1,187.7 | 2.6 | 2.1 |

***Source: National Accounts, Statistics Botswana***

**To GDP (%)**

##### APPENDIX II: DEFINITIONS

###### 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.

###### 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.

###### 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.

###### 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.

###### 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.

###### 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.

###### 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.

###### 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.

###### 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).

###### SMS Traffic

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

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