



# TANZANIA COMMUNICATIONS REGULATORY AUTHORITY

COMMUNICATION STATISTICS: Quarter ending 30<sup>th</sup> June 2023

## About the Report

This report presents communication statistics for the FOURTH quarter of the financial year 2022/2023. The report covers Telecommunications Services, Mobile Money Services, Internet Services, Broadcasting Services, Postal Services and Other ICT related Statistics from 1<sup>st</sup> April to 30<sup>th</sup> June, 2023.

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## 1. TELECOM SERVICES STATISTICS

Telecom Services Statistics presented here are for Subscriptions, tariffs, Traffic Minutes and SMS. The presentation is on monthly, quarterly and annual basis.

### 1.1 Telecom Subscriptions

This is a count of all active SIM Cards which have registered an activity or used at least once in the past three months. Table 1.1 presents the number of subscriptions for April, May and June 2023.

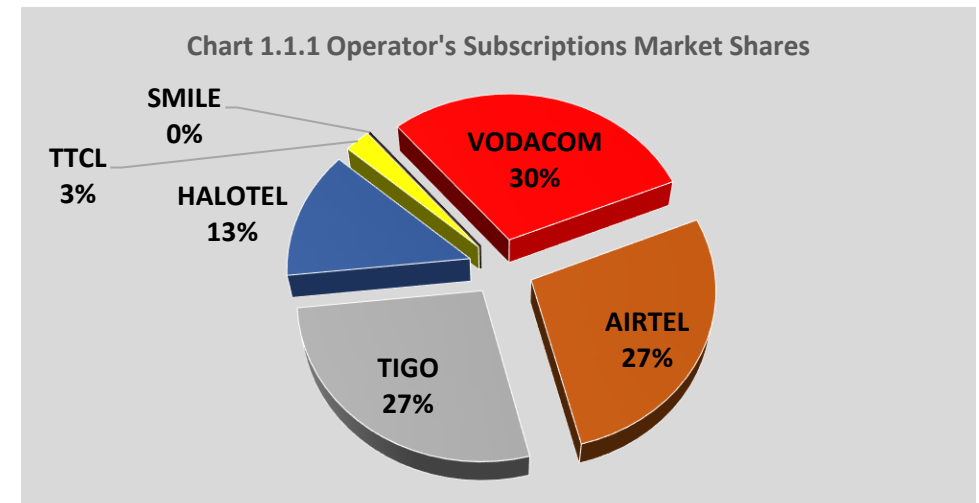
**Table 1.1 Number of Telecom Subscriptions**

|              | APRIL             | MAY               | JUNE              |
|--------------|-------------------|-------------------|-------------------|
| VODACOM      | 18,650,274        | 18,727,181        | 19,116,166        |
| AIRTEL       | 17,084,489        | 17,272,897        | 17,505,139        |
| TIGO         | 16,643,618        | 16,981,615        | 17,484,387        |
| HALOTEL      | 8,267,206         | 8,313,110         | 8,410,029         |
| TTCL         | 1,527,629         | 1,541,338         | 1,559,090         |
| SMILE        | 14,428            | 14,071            | 13,840            |
| <b>Total</b> | <b>62,187,644</b> | <b>62,850,212</b> | <b>64,088,651</b> |

Table 1.1 shows that the total subscriptions has increased by 3.6% from 61.9 million in March 2023 to 64.1 million as at end of June 2023. On average, this is an increase of 1.5% from April to June compared to an average increase of 0.59% in every month of the last quarter.

#### 1.1.1 Operator's Subscriptions Market Shares as of June 2023

Chart 1.1.1 shows the market shares on subscriptions per operators. The chart shows there is no operator with market share greater than 35% which is a minimum significant level. This signifies that there is a healthy competition among the operators in the telecommunication sub sector.



**Table 1.1.2 Subscriptions to Mobile and Fixed Network**

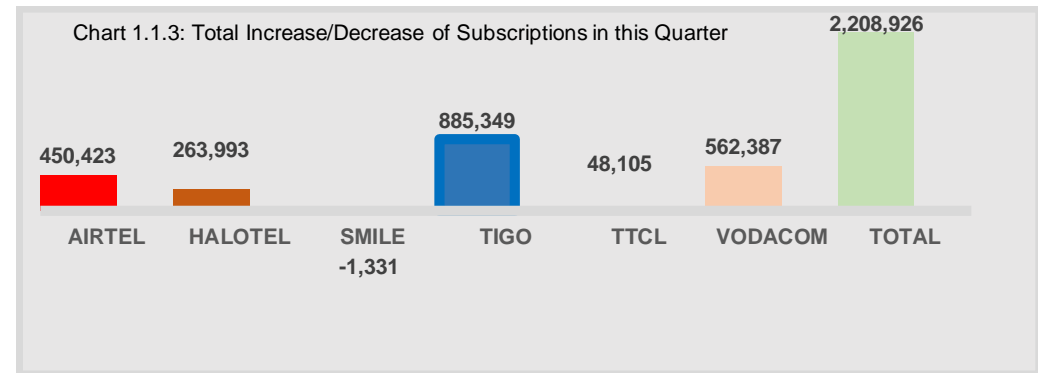
|                  | APRIL      | MAY        | JUNE       |
|------------------|------------|------------|------------|
| Mobile Subs      | 62,101,369 | 62,765,650 | 64,005,244 |
| Fixed Subs       | 86,275     | 84,562     | 83,407     |
| % of Mobile Subs | 99.86%     | 99.87%     | 99.87%     |
| % of Fixed Subs  | 0.14%      | 0.13%      | 0.13%      |

Table 1.1.2 shows the shares of subscriptions on the mobile and fixed networks. Mobile networks subscriber’s account for 99.87% of all subscribers in the market while the fixed network has only 0.13%. Note that the fixed market services are only provided by one operator while the mobile services are provided by all six operators.

**1.1.3 Increase/Decrease of Subscriptions per Operator in this Quarter**

The fourth quarter of 2022/2023 has experienced a significant increase of subscriptions compared to third quarter which had an additional of 1.6 million SM cards compared to 2.2 million additional SIM cards of this quarter.

The reason for the increase is associated with the re-registration of barred SIM cards of the last quarter because of not being verified. The increase might also be associated with increased use of digital services.

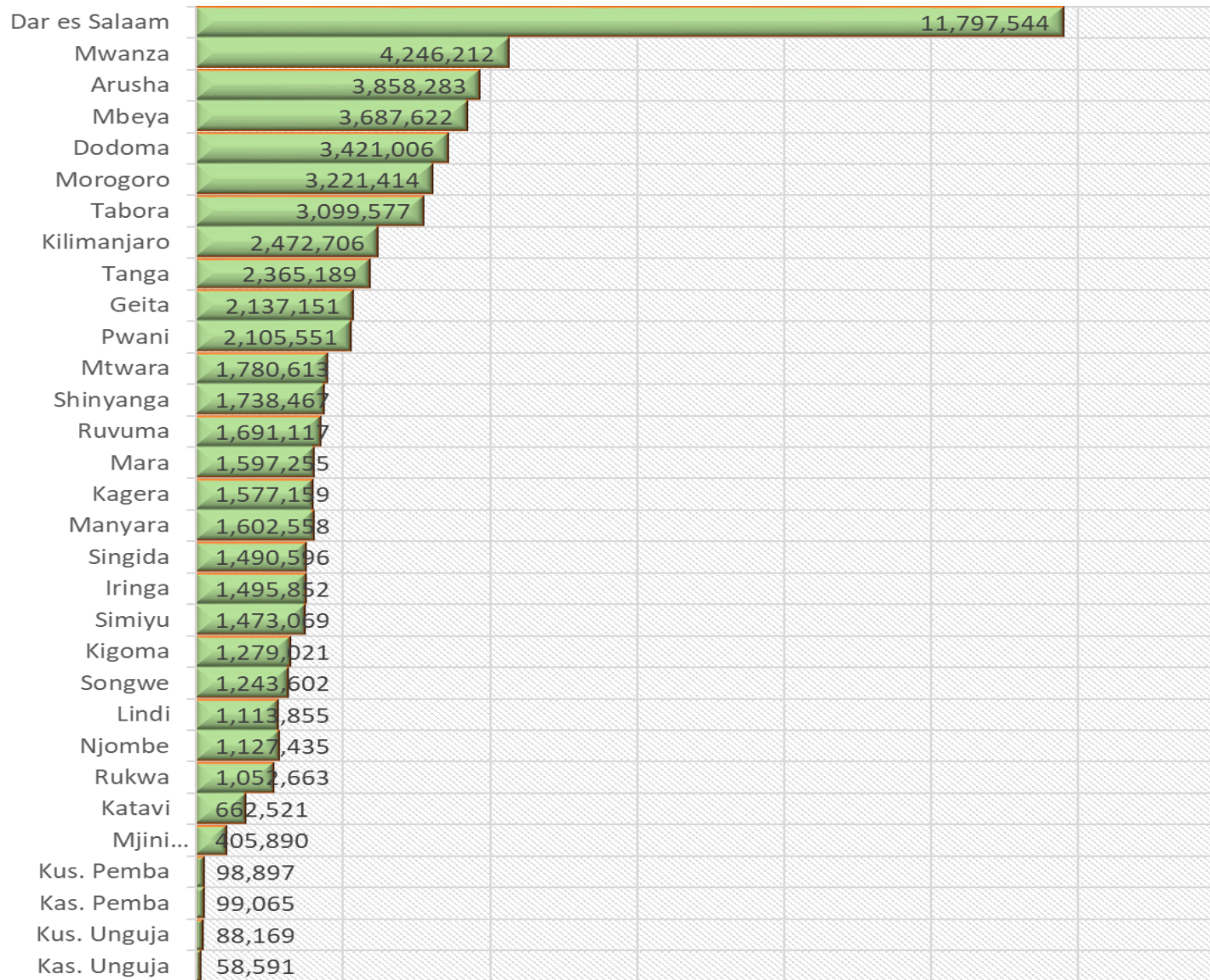


**1.1.4 Telecom Services Subscriptions per Region as of June 2023**

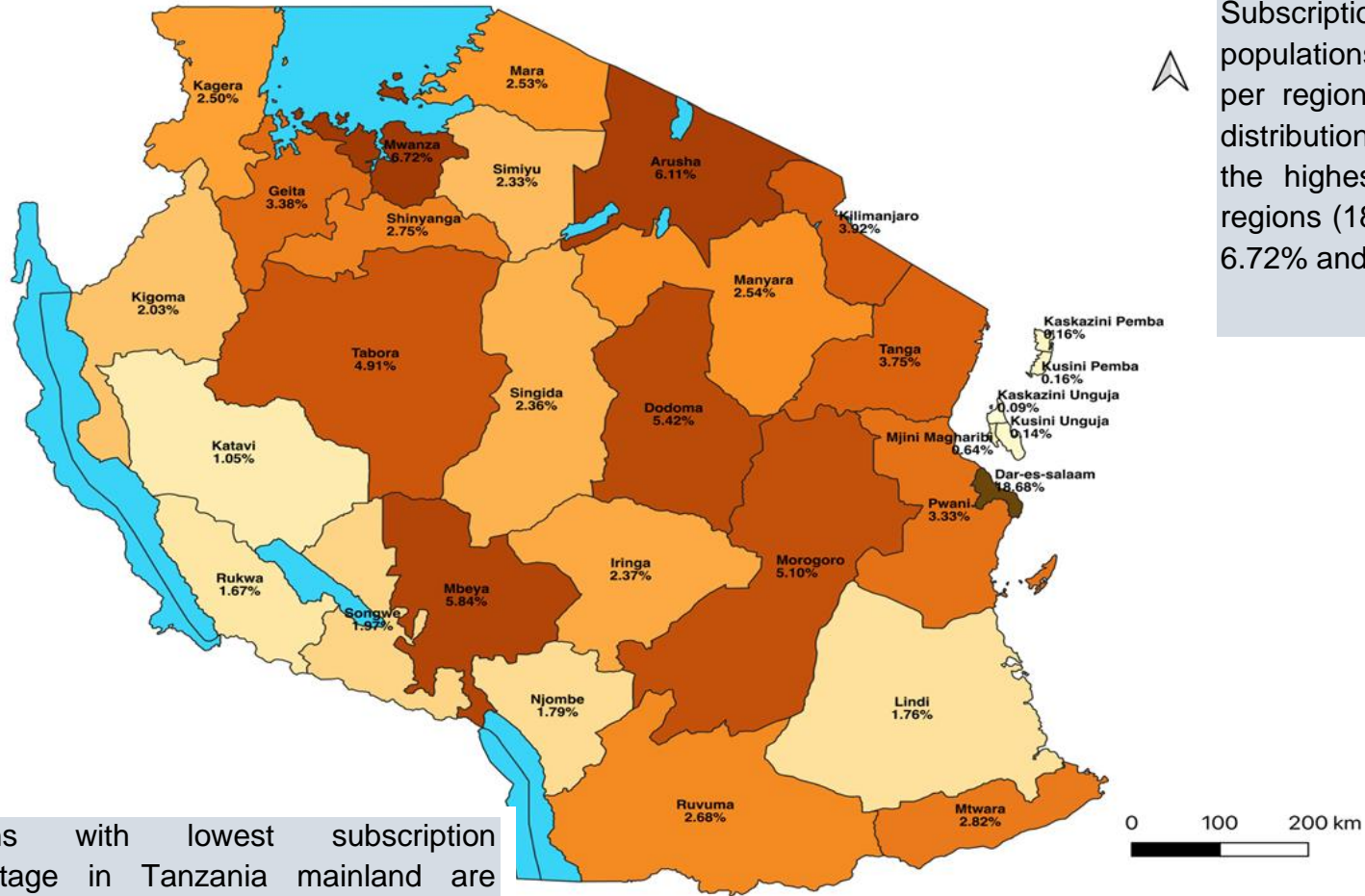
The distribution of SIM cards per region is presented in Chart 1.1.4. The chart shows that Dar es Salaam ranks first by having 18.41% of all active subscriptions (11.8 million SIM Cards), Mwanza ranks second with 6.63% of all active subscriptions (4.2 million SIM cards), Arusha ranks third with 6.02% of all active subscriptions (3.8 million), Mbeya ranks fourth with 5.75% of all active subscriptions (3.7 million SIM cards) and Dodoma ranks fifth in the top ranking regions by having 5.34% of all active subscribers (3.4 million SIM cards).

Regions with the lowest subscriptions are North Unguja with 0.09% of all active subscriptions (58,591 SIM cards), South Unguja with 0.14% of all active subscriptions (88,169 SIM cards) and followed by North Pemba with 0.15% of all active subscriptions (99,065 SIM cards).

Chart 1.1.4. Telecom Subscription per Region as of June 2023



Map 1.1.4 Region Subscriptions Percentages as of 30<sup>th</sup> June 2023



Subscriptions per region per total populations (Percentage of Subscriptions per region) is shown on Map 1.1.4. The distribution shows that, Dar es Salaam has the highest percentage compared to all regions (18.68%) followed by Mwanza with 6.72% and Arusha with 6.11%

Regions with lowest subscription percentage in Tanzania mainland are Katavi (1.05%), Rukwa (1.67%), Lindi (1.76%) and Njombe (1.79%)

The overall subscriptions percentage is 101.5% exceeded saturation point (100%).



### 1.1.5 Trend of Telecom Subscriptions for the past five years

The trend of telecom subscriptions for the past five years shows an average increase of 7% per annum as presented in Table 1.1.5. The telecom penetration level has reached very close to 101%.

**Table 1.1.5: Trend of Telecom Subscriptions for the past five years**

| <b>Year</b>        | <b>2019</b>       | <b>2020</b>       | <b>2021</b>       | <b>2022</b>       | <b>March.2023</b> | <b>June.2023</b>  |
|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mobile Subs        | 47,685,232        | 51,220,233        | 54,044,384        | 60,192,231        | 61,795,208        | 64,005,244        |
| Fixed Subs         | 76,288            | 72,469            | 71,834            | 84,696            | 84,517            | 83,407            |
| <b>SUBS</b>        | <b>47,761,520</b> | <b>51,292,702</b> | <b>54,116,218</b> | <b>60,276,927</b> | <b>61,879,725</b> | <b>64,088,651</b> |
| <b>PENETRATION</b> | <b>88%</b>        | <b>89%</b>        | <b>91%</b>        | <b>98%</b>        | <b>100%</b>       | <b>101%</b>       |

### 1.2 Telecom Tariffs

These are per minute, SMS and MB charges (Tax inclusive) as of June 2023 without subscribing to a bundle. They are also known as Pay As You Go or Standard tariffs

#### 1.2.1 Voice Tariffs (in TZS)

The voice tariffs are shown in Chart 1.2.1a and 1.2.1b for local and international services. They are price of one minute of voice charge when one calls locally and internationally without subscribing to a bundle.

**Chart 1.2.1a: Local Voice Tariffs**

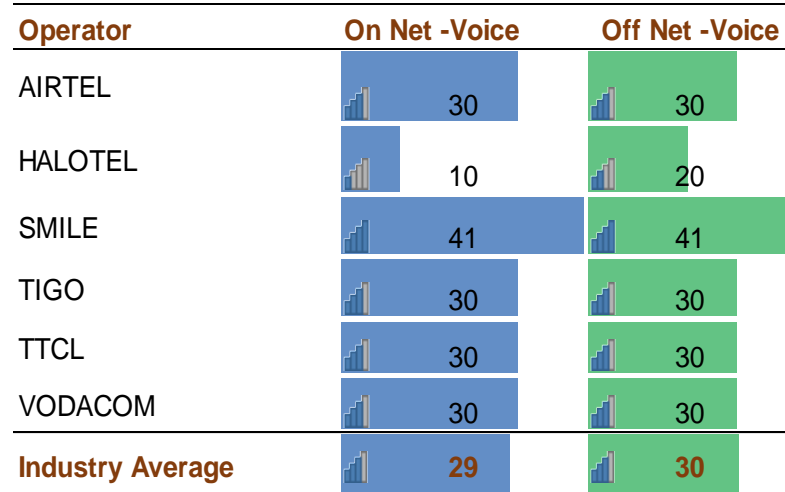


Chart 1.2.1a, depicts the same rate of tariff as it was in quarter ended in March, 2023. Halotel charges TZS 10/minute for on net and TZS 20/minute for off net; Smile charges TZS 41/minute for both on net and off net calls; the remaining operators charge TZS 30/minute for both on net and off net calls. The overall industry average for on net calls is TZS 29/minute and for off net calls is TZS 30/minute

**Chart 1.2.1b: International Voice Tariffs**

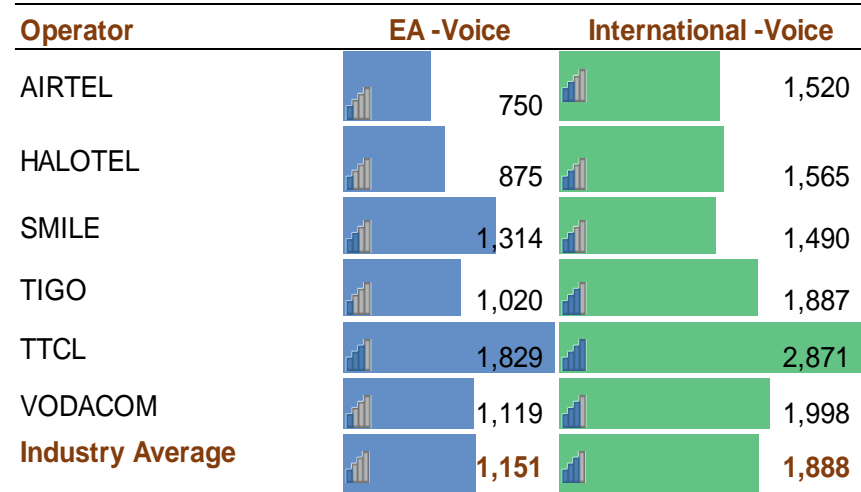


Chart 1.2.1b shows that industry average rate of one minute for making calls to East Africa and other international is TZS 1,151/= and 1,888/ respectively.

The tariff rate for this quarter is the same as of last quarter.

### 1.2.2 SMS and Data Tariffs (in TZS)

These are per minute, SMS and MB charges (Tax inclusive) without subscribing to a bundle. They are also known as Pay As You Go or Standard tariffs.

**Chart 1.2.2a Local and International SMS Tariffs**

| Operators               | Local SMS | International SMS |
|-------------------------|-----------|-------------------|
| AIRTEL                  | 8         | 215               |
| HALOTEL                 | 5         | 95                |
| SMILE                   | 27        | 250               |
| TIGO                    | 8         | 215               |
| TTCL                    | 10        | 138               |
| VODACOM                 | 8         | 285               |
| <b>Industry Average</b> | <b>11</b> | <b>200</b>        |

**Chart 1.2.2b Data Tariffs**

| Operators               | Data (MBs)  |
|-------------------------|-------------|
| AIRTEL                  | 9.35        |
| HALOTEL                 | 9.35        |
| SMILE                   | 3.42        |
| TIGO                    | 9.35        |
| TTCL                    | 9.35        |
| VODACOM                 | 9.35        |
| <b>Industry Average</b> | <b>8.36</b> |

Industry Average for Local SMS tariff for this quarter is TZS 11 per SMS same as March, 2023. International SMS tariff also remained the same at TZS 200 per SMS same as March 2023. This indicates stability in the tariff charges and hence encourage usage as subscribers can budget for the service.

The figures in Chart 1.2.2b shows that, industry average data tariffs for June 2023 are TZS 8.36 per MB same as that of March, 2023. This indicates stability in the tariff charges and hence encourage usage as subscribers can budget for the service as well.

### 1.2.3 Disaggregated Bundle Tariffs (in TZS)

These are per unit prices (Tax inclusive) of a minute voice Call, SMS, and 1MB of data for consumers subscribing to bundled services. The bundle tariffs are lower than pay as you go tariffs.

**Chart 1.2.3 Disaggregated Bundle Tariffs**

| Operator                | On Net      | Off Net     | SMS         | Data        |
|-------------------------|-------------|-------------|-------------|-------------|
| VODACOM                 | 7.46        | 5.51        | 1.33        | 2.34        |
| TIGO                    | 4.83        | 6.90        | 1.24        | 2.76        |
| AIRTEL                  | 3.54        | 5.96        | 1.07        | 2.05        |
| HALOTEL                 | 2.87        | 5.92        | 1.23        | 2.07        |
| TTCL                    | 7.23        | 7.23        | 2.18        | 2.20        |
| SMILE                   | 0.00        | 0.00        | 0.00        | 2.08        |
| <b>Industry Average</b> | <b>5.19</b> | <b>6.30</b> | <b>1.41</b> | <b>2.25</b> |

The industry average for on net bundle tariff in this quarter is TZS 5.19 while in March 2023 was TZS 4.66; Off net bundle tariff is TZS 6.30 per minute while in March 2023 was 6.37 per minute; SMS tariff in this quarter is TZS 1.41 per SMS while in March 2023 was TZS 1.34 per SMS. Data tariff in this quarter is TZS 2.25/Mb while in March 2023 was 2.09/Mb. Generally in this quarter there is a decrease in off net tariff while other services experienced slight increase for on net calls, SMS and data tariffs.

**1.2.4 Industry Average of Tariffs in all Destinations and Services**

These are simple average figures giving pictures of the industry as a whole. The industry average tariffs are shown in Chart 1.2.4a for national and 1.2.4b for international.

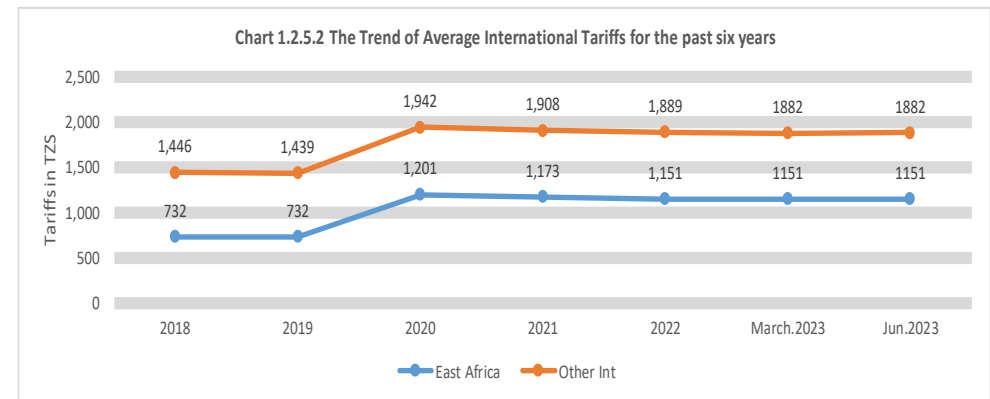
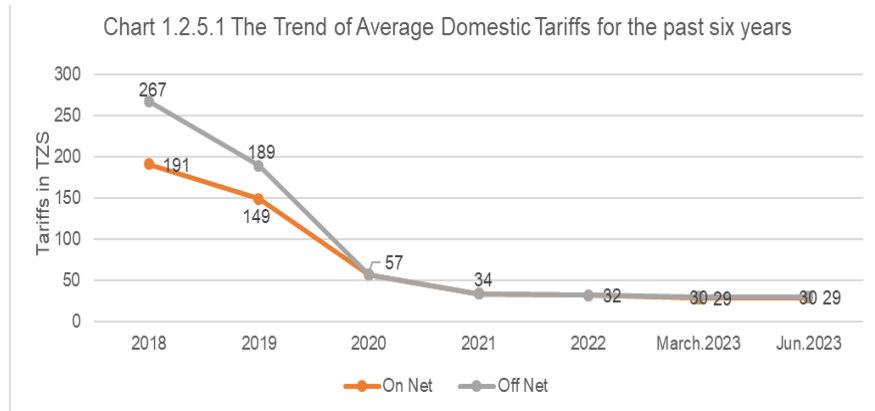
**Chart 1.2.4a Industry Average for Basic Tariffs for national**

|         |      |
|---------|------|
| On Net  | 29   |
| Off net | 30   |
| SMS     | 11   |
| Data    | 8.36 |

**Chart 1.2.4b Industry Average for Basic Tariffs for International**

|               |       |
|---------------|-------|
| EA Calls      | 1,151 |
| Other Int. Ca | 1,882 |
| Int. SMS      | 200   |

In this quarter, the industry average tariff for on net ,off net, SMS and Data services remain the same as last quarter. The tariff for other international and tariff for EA also remain the same as last quarter ended March, 2023.



As it is shown in Chart 1.2.5.1, the trend of industry average tariffs for on net and off net started to drop from 2019 to date. Convergence of on net and off net tariffs started in 2021.

Tariffs for East Africa and other international has mixed trend over time since its rate depends on rate charged by international carriers

### 1.3. Telecom Traffic Minutes

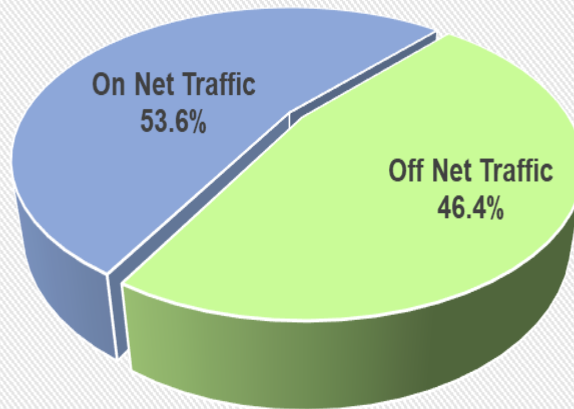
#### 1.3.1 Local Traffic

This presents on net and off net voice traffic minutes for calls made locally (within the country). Table 1.3.1 depicts the traffic for the quarter ending June 2023.

**Table 3.1.1 On net and Off net Traffic Minutes**

|                 | <b>APRIL</b>          | <b>MAY</b>            | <b>JUNE</b>           | <b>TOTAL</b>          |
|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| On Net Traffic  | 5,715,456,313         | 6,311,302,499         | 6,618,001,500         | <b>18,644,760,312</b> |
| Off Net Traffic | 5,030,510,867         | 5,473,669,674         | 5,662,310,936         | <b>16,166,491,477</b> |
| <b>TOTAL</b>    | <b>10,745,967,180</b> | <b>11,784,972,173</b> | <b>12,280,312,436</b> | <b>34,811,251,789</b> |

Chart 1.3.1 Market Share on Local On Net and Off Net Traffic



A total of 34.8 billion minutes were spent in the quarter ending June 2023 compared to 32.0 billion minutes in the quarter ending March 2023.

Chart 1.3.1 shows that there were many traffic minutes within the networks (53.6%) compared to outside the network (46.4%).

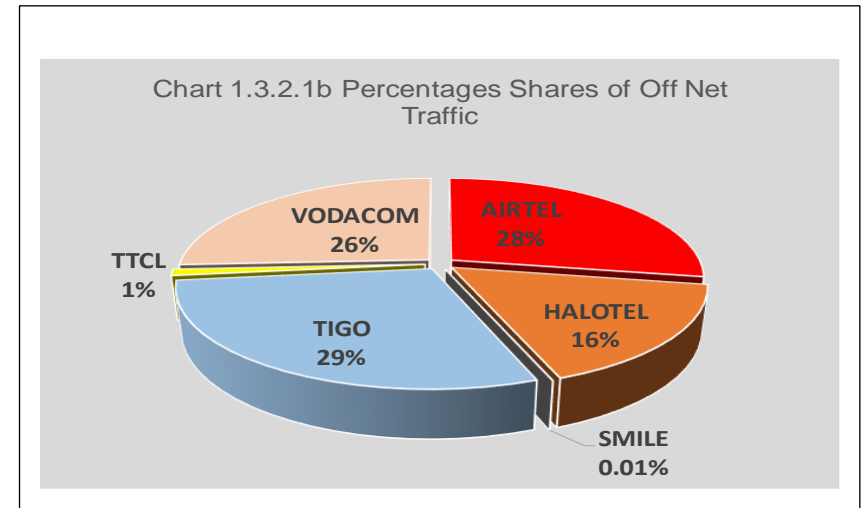
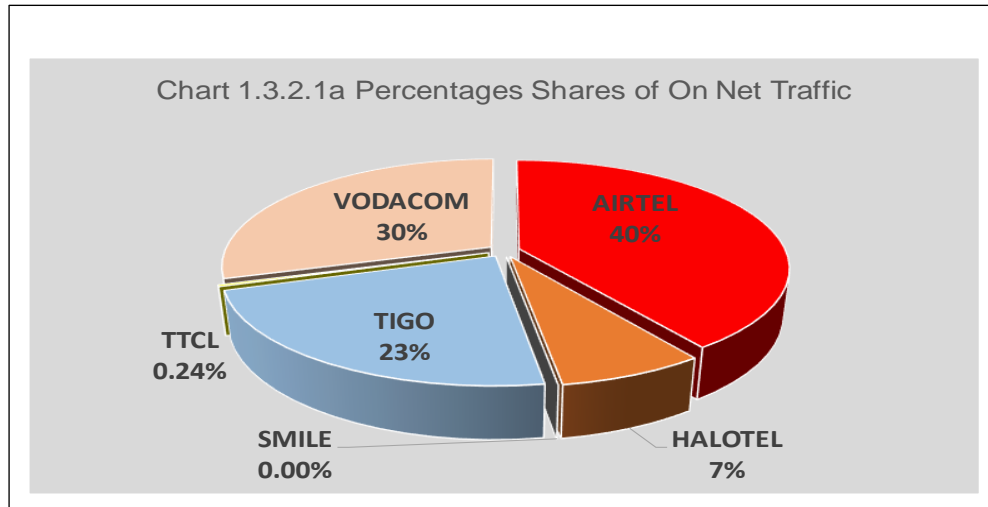
June experienced slightly more traffic minutes than other months of the quarter followed by May and April

Small differences between On Net and Off Net minutes show the effectiveness of Interconnection rates regulations.

### 1.3.2 Percentage Shares of Traffic Minutes Per Operators as of June 2023

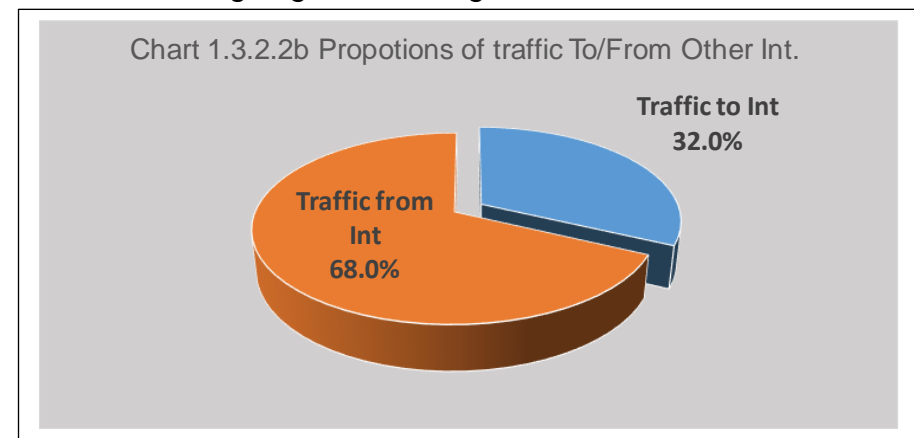
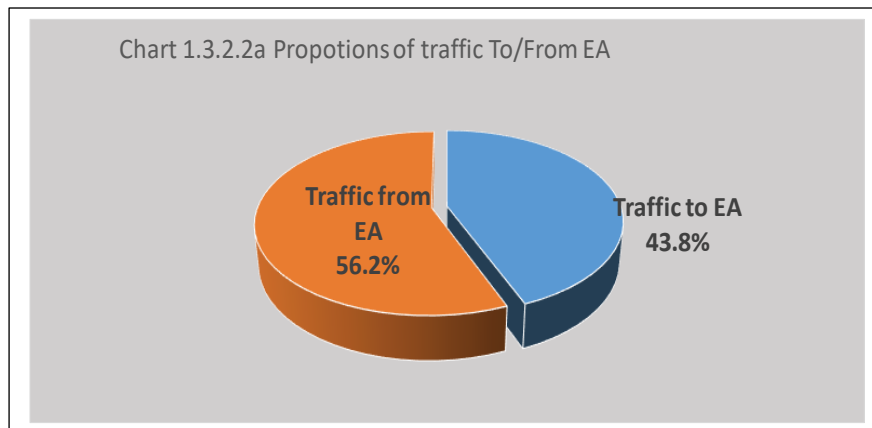
#### 1.3.2.1 Local Traffic

Chart 1.3.2.1a shows Airtel has largest shares (40%) on on net traffic minutes compared to other operators. Vodacom follows with 30%, Tigo with 23% and the remaining goes to Halotel, TTCL and Smile. On the other hand, Tigo leads on off net traffic minutes by having 29% shares as presented in Chart 1.3.2.1b, followed closely by Airtel and Vodacom with 28% and 26%, respectively.



#### 1.3.2.2 International Traffic

This presents voice traffic minutes for calls made to/from Internationals. The proportions of Traffic To/From EA and other Internationals are as shown in Chart 1.3.2.2a and 1.3.2.2b. Traffic from EA and other nations exceed traffic going to those regions.



Market shares on international traffic minutes are as shown on Chart 1.3.2.2c to 1.3.2.2f. Airtel has the largest share for traffic to East Africa by 45% followed by Vodacom with 44% market share while traffic from East Africa, Vodacom has the largest market share of 59%, Airtel 22% and Tigo 17%. Vodacom has the largest market on traffic to other international (42%) while TTCL has 58% market shares of traffic minutes from other international as shown on Chart 1.3.2.2e and 1.3.2.2f.

Chart 1.3.2.2c Percentage Shares of Traffic to EA

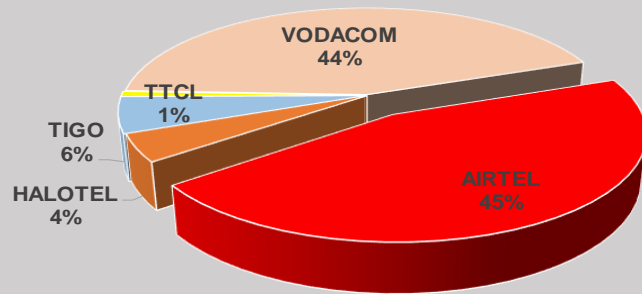


Chart 1.3.2.2d Percentage Shares of Traffic Incoming from EA

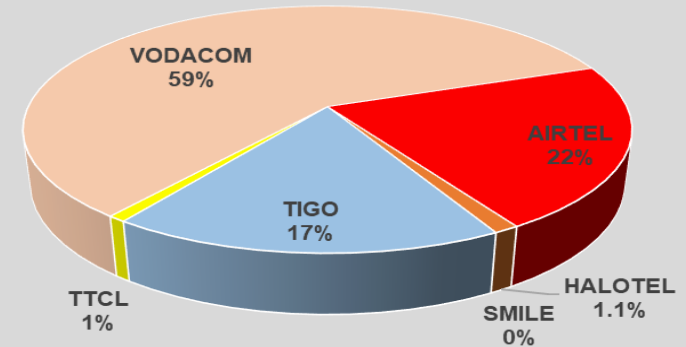


Chart 1.3.2.2e Percentage Shares of Traffic to other Int.

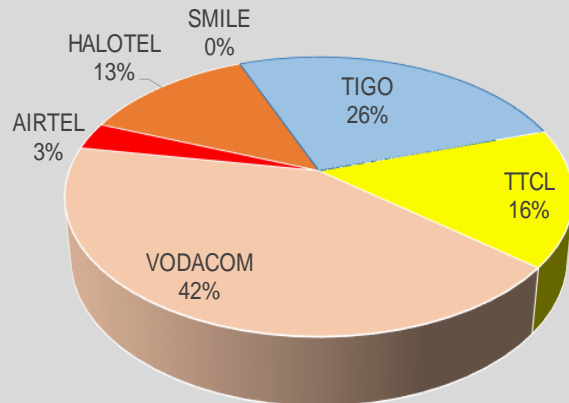
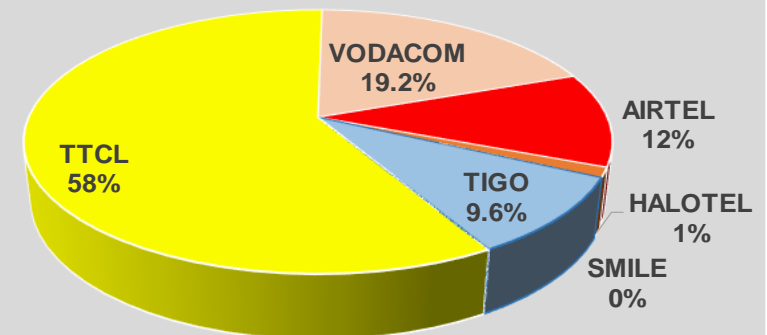


Chart 1.3.2.2f Percentage Shares of Traffic Incoming from other Int.





These are average minutes used by a subscriber in a month. As shown in Table 1.3.3, a total of 552 minutes were spent by a subscriber per quarter compared to 520 minutes in the quarter ending March 2023. This implies that each subscriber spent an average of 184 minutes per month in this quarter compared to 173 minutes in the last quarter.

Table 1.3.3 Average minutes used by a subscriber in a Month

|                 | APRIL      | MAY        | JUNE       | TOTAL         |
|-----------------|------------|------------|------------|---------------|
| On Net Traffic  | 92         | 100        | 103        | 295.59        |
| Off Net Traffic | 81         | 87         | 88         | 256.33        |
| Traffic to EA   | 0.01       | 0.01       | 0.01       | 0.03          |
| Traffic to Int  | 0.02       | 0.02       | 0.02       | 0.06          |
| <b>TOTAL</b>    | <b>173</b> | <b>188</b> | <b>192</b> | <b>552.01</b> |

On average subscribers call more on the same network than across the network for the quarter under review. Subscribers spent 295.59 minutes for on net calls compared to 256.33 minutes for off net calls. Furthermore, the table shows that, a subscriber spent 0.06 minutes to call other international different from EAC while to EAC a subscriber spent 0.03 minutes only. The quarter trend indicates that more minutes were spent in June than the rest of other months of the quarter.

### 1.3.4 Trend of Local Traffic Minutes for the past five years

The trend of traffic minutes over the past five years has been increasing on average of 19% each year from 2019 to 2022. The actual traffic trends are shown in Table 1.3.4

Table 1.3.4 Trend of Local Traffic Minutes for the past five years

| Year            | 2019                  | 2020                  | 2021                  | 2022                   | June.2023             |
|-----------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|
| On Net Traffic  | 55,812,036,633        | 54,561,254,851        | 51,673,651,476        | 62,678,563,065         | 35,551,918,515        |
| Off Net Traffic | 11,570,993,820        | 27,084,539,242        | 43,194,917,029        | 59,951,594,101         | 31,297,439,971        |
| <b>TOTAL</b>    | <b>67,383,030,453</b> | <b>81,645,794,093</b> | <b>94,868,568,505</b> | <b>122,630,157,166</b> | <b>66,849,358,486</b> |

From the Table 1.3.4, the trend shows that, more traffic minutes were experienced on on-net calls compared to off net calls. The trend shows that the gap between on-net and off-net calls is getting narrower due to continuous decrease of the interconnection tariff, which makes both on-net and off-net calls to have almost similar tariff.

### 1.3.5 Trend of International Traffic Minutes for the past five years.

The trend of traffic minutes for international calls is shown in Table 1.3.5.

**Table 1.3.5 Trend of International Traffic Minutes for the past five years**

| <b>Year</b>       | <b>2019</b> | <b>2020</b> | <b>2021</b> | <b>2022</b> | <b>June 2023</b> |
|-------------------|-------------|-------------|-------------|-------------|------------------|
| Off Net To EA     | 14,252,483  | 9,738,521   | 9,097,165   | 8,927,113   | 5,146,749        |
| Incoming From EA  | 21,989,062  | 15,406,649  | 15,853,362  | 13,594,473  | 6,503,413        |
| Off Net To Int    | 43,297,997  | 38,014,133  | 24,856,947  | 26,034,131  | 8,136,130        |
| Incoming From Int | 45,100,536  | 45,172,263  | 49,885,142  | 33,374,619  | 14,509,799       |

As shown in Table 1.3.5, there is more traffic coming from both EA and other internationals than outgoing to the same destinations from our country. The traffic to and from EA has been decreasing and the same to and from other internationals except for the year 2022 where it rose to 26 million from 24.9 million in 2021.

## 1.4. Telecom SMS Traffic

### 1.4.1 Local SMS Traffic

These are number of SMS sent and received in Mobile Networks.

**Table 1.4.1 Local SMS Traffic**

|             | <b>APRIL</b>  | <b>MAY</b>    | <b>JUNE</b>   | <b>TOTAL</b>   |
|-------------|---------------|---------------|---------------|----------------|
| On Net SMS  | 6,356,865,497 | 6,470,253,840 | 6,676,900,989 | 19,504,020,326 |
| Off Net SMS | 9,259,558,475 | 9,429,205,273 | 9,665,401,632 | 28,354,165,380 |

Percentage shares of local SMS and per operators are shown on Chart 1.4.1a and Chart 1.4.1b. As for local SMS, Off Net SMS has large shares compared with On Net SMS. This indicates that more SMS are sent across network.

Chart 1.4.1a shows that Airtel has the largest market share of 33%, followed by Tigo with 23% and Vodacom by 22% while TTCL has the smallest market share of 1%.

Chart 1.4.1 Percentage Share of Local SMS Traffic

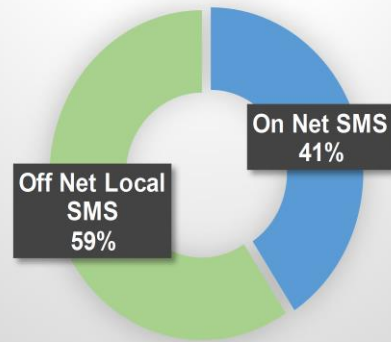
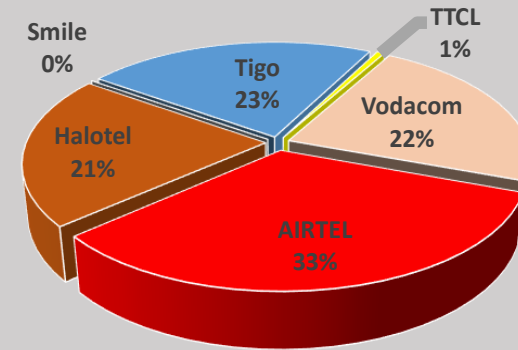


Chart 1.4.1.1a Percentage shares of Local SMS per Operator



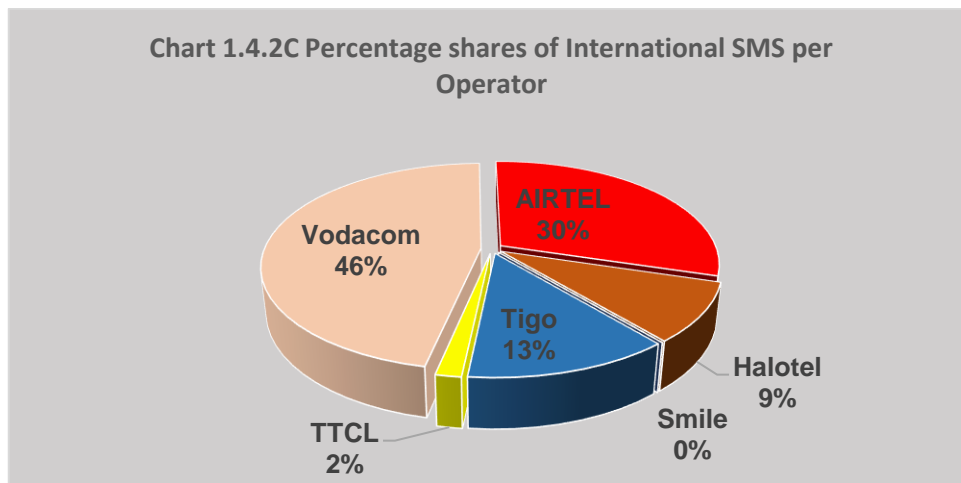
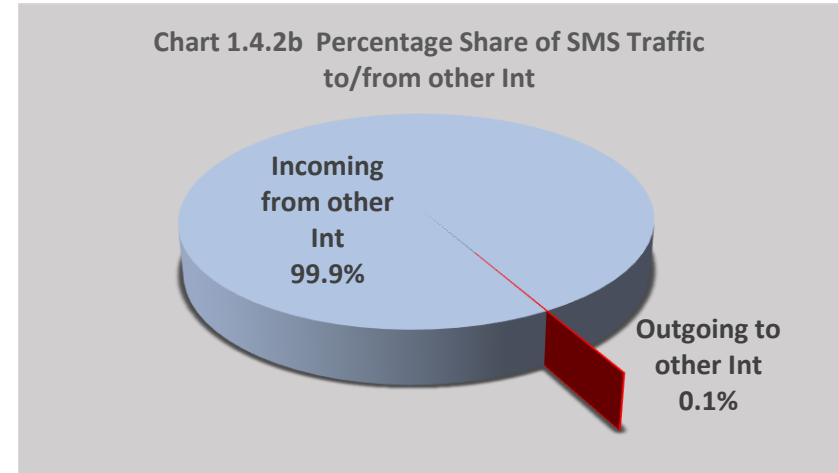
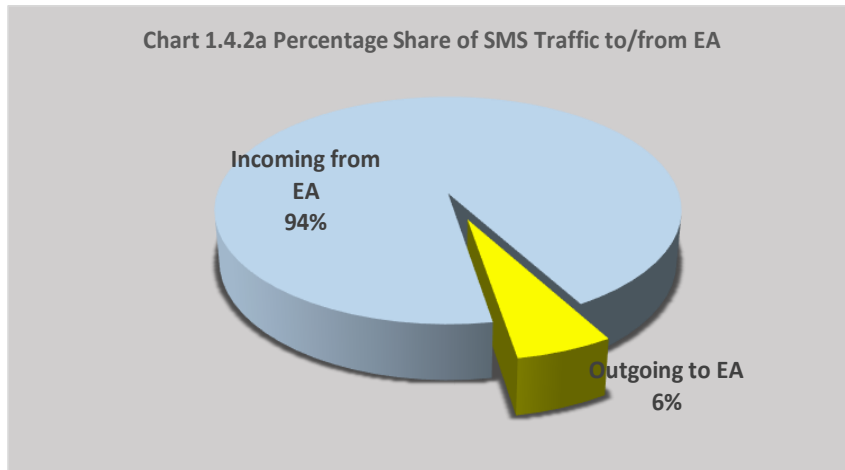
### 1.4.2 International SMS Traffic

International SMS traffic are shown in Table 1.4.2. The Table shows that more SMS are received from international than sent to.

Table 1.4.2 International SMS Traffic

|                         | APRIL       | MAY         | JUNE        | TOTAL         |
|-------------------------|-------------|-------------|-------------|---------------|
| Outgoing to EA          | 152,279     | 155,028     | 160,302     | 467,609       |
| Outgoing to other Int   | 239,824     | 263,574     | 360,870     | 864,268       |
| Incoming from EA        | 2,438,237   | 2,531,993   | 2,784,005   | 7,754,235     |
| Incoming from other Int | 488,944,958 | 376,543,002 | 333,443,583 | 1,198,931,543 |

More details of proportion of SMS sent and received are shown in chart 1.4.2a and 1.4.2b



International traffic trend shows that, incoming traffic is larger than outgoing traffic due to the fact that Tanzania population is less compared to the rest of the world and therefore less outgoing traffic is experienced than incoming as presented in Chart 1.4.2a & b.

Chart 1.4.2c shows Vodacom has the largest market share for on SMS traffic going to international destinations compared to other operators.

### 1.4.3 Average Number of SMS per Subscriptions

Table 1.4.3 shows average number of SMS per subscription per month in the quarter under review.

|                       | <b>APRIL</b> | <b>MAY</b> | <b>JUNE</b> | <b>TOTAL</b> |
|-----------------------|--------------|------------|-------------|--------------|
| On Net SMS            | 102          | 103        | 104         | 309          |
| Off Net Local SMS     | 149          | 150        | 151         | 450          |
| Outgoing to EA        | 0            | 0          | 0           | 0            |
| Outgoing to other Int | 0            | 0          | 0           | 0            |

Table 1.4.3 shows that, there are 759 SMS sent by a subscriber per quarter compared to 725 SMS sent in the quarter ending March 2023. The average SMS per subscriber per month is 253 in this quarter compared to SMS 242 in the last quarter.

### 1.4.4 The Trend of Local SMS

The trend of local SMS over the past five years are shown in Table 1.4.4 and Table 1.4.5

**Table 1.4.4 Trend of Local SMS Traffic in the past five years**

| <b>Year</b>         | <b>2019</b>    | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    | <b>June.2023</b> |
|---------------------|----------------|----------------|----------------|----------------|------------------|
| On Net SMS Traffic  | 53,787,444,093 | 61,971,569,487 | 58,875,779,663 | 65,358,270,089 | 37,904,681,699   |
| Off Net SMS Traffic | 51,650,529,287 | 71,072,186,913 | 78,200,512,436 | 88,668,287,300 | 54,679,612,265   |

As it is seen in Table 1.4.4, shows an average increase of 5% and 22% for on net and off net SMS respectively.

**Table 1.4.5 Trend of international SMS Traffic in the past five years**

| <b>Year</b>             | <b>2019</b>   | <b>2020</b>   | <b>2021</b>   | <b>2022</b>   | <b>June 2023</b> |
|-------------------------|---------------|---------------|---------------|---------------|------------------|
| Outgoing to EA          | 3,850,602     | 1,235,692     | 1,425,624     | 1,667,990     | 973,183          |
| Outgoing to other Int   | 6,834,308     | 2,718,443     | 3,191,041     | 3,574,957     | 1,731,229        |
| Incoming from EA        | 48,376,608    | 50,880,982    | 89,717,530    | 58,344,672    | 15,633,193       |
| Incoming from other Int | 3,201,524,787 | 3,935,379,714 | 4,599,468,894 | 4,664,200,079 | 2,522,100,199    |

## 2. MOBILE MONEY SERVICES STATISTICS

This section present statistics on Mobile Money Services in terms of subscriptions (Number of mobile money accounts) and number of transactions.

### 2.1 Mobile Money Subscriptions

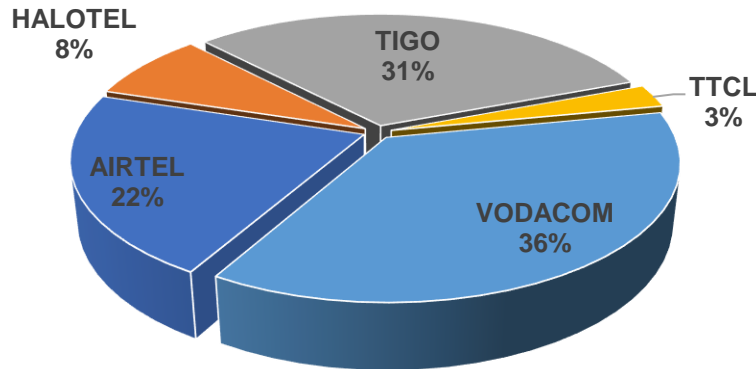
It is a count of all active SIM cards with mobile money service accounts which have registered an activity/ have been used at least once in the past three months. The subscription has increased from 44.4 million accounts in the quarter ending March, 2023 to 47.3 million accounts in June, 2023.

**Table 2.1 Mobile Money Service subscriptions (Number of Accounts)**

|              | <b>APRIL</b>      | <b>MAY</b>        | <b>JUNE</b>       |
|--------------|-------------------|-------------------|-------------------|
| AIRTEL       | 9,557,937         | 9,792,291         | 10,149,367        |
| HALOTEL      | 3,743,942         | 3,749,012         | 3,790,326         |
| TIGO         | 13,957,565        | 14,354,268        | 14,855,524        |
| TTCL         | 1,259,484         | 1,272,508         | 1,287,318         |
| VODACOM      | 16,421,513        | 16,613,246        | 17,193,125        |
| <b>TOTAL</b> | <b>44,940,441</b> | <b>45,781,325</b> | <b>47,275,660</b> |

The number of mobile money accounts are increasing at an average increase of 2.6% in this quarter compared to an average increase of 0.97% in the quarter ending March 2023.

**Chart 2.1 Market Shares on Subscriptions as of June 2023**



The Chart 2.1 shows that, Vodacom has larger market share of 36% of mobile money accounts in the market, followed by Tigo with 31%, Airtel with 22%, Halotel with 8% and the last one is TTCL with market share of 3%.

**2.2 Total Number of Subscriptions and Transactions**

**Table 2.2 Total Number of Subscriptions and Transactions**

|                                       | <b>APRIL</b> | <b>MAY</b>  | <b>JUNE</b> |
|---------------------------------------|--------------|-------------|-------------|
| No. of Subscriptions                  | 44,940,441   | 45,781,325  | 47,275,660  |
| No. of Transactions                   | 407,480,068  | 428,596,950 | 420,675,884 |
| Average No. of Transaction/subscriber | 9            | 9           | 9           |

Table 2.2 shows that number of transactions increases as number of subscriptions increases. More transactions are experienced in the month of May compared to other months of the quarter. The number of mobile money accounts for this quarter has been growing at the average rate of 2.6%.



Trend of Mobile Money subscriptions and transactions in the past four years is as shown in the Table 2.3.

### 2.3 Trend of Mobile Money Transactions in the past four years

| Year                | 2020          | 2021          | 2022          | June 2023     |
|---------------------|---------------|---------------|---------------|---------------|
| No. of Transactions | 3,412,210,062 | 3,752,084,894 | 4,195,899,414 | 2,429,262,756 |
| No. of Subs         | 32,268,630    | 35,285,767    | 40,953,496    | 47,275,660    |

Table 2.3 shows that the number of transactions has been increasing for the past three years from 3.4 billion in 2020 to 4.2 billion in 2022. Number of subscriptions have also been increasing at the average rate of 13% per year while annual average transactions per subscription has also been increasing at an average of 11% per year.

### 3. INTERNET SERVICES STATISTICS

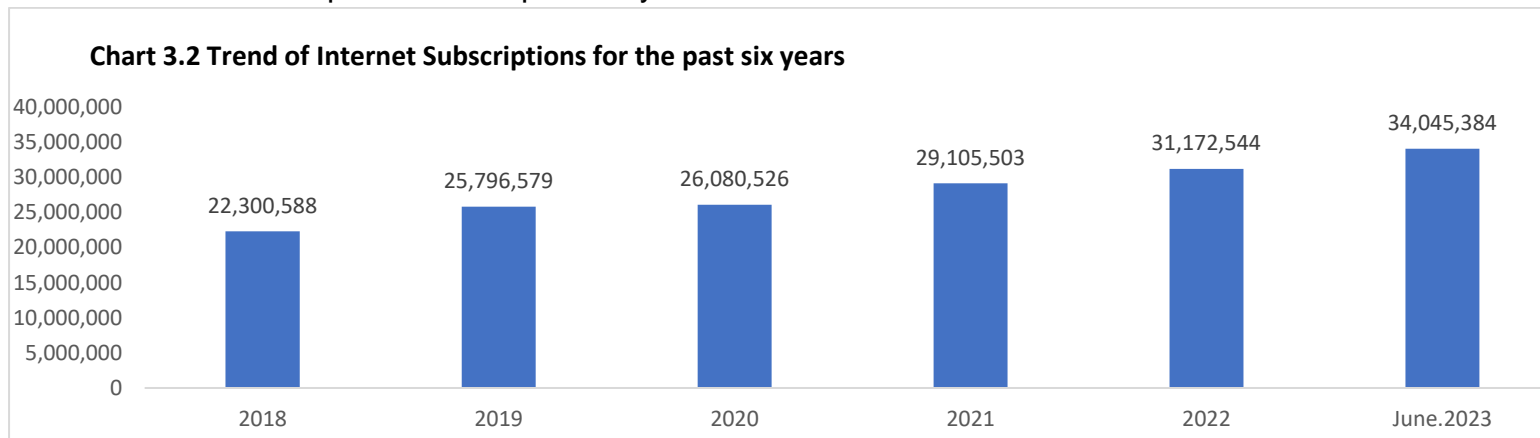
#### 3.1 Internet Subscription

The subscriptions are either through cable modem, DSL, fibre-to-the-home/business, other fixed (wired) broadband subscriptions, satellite broadband, terrestrial fixed wireless broadband, handset-based, computer-based (USB/dongles) and mobile-broadband. Mobile broadband means a total number of SIM cards that have accessed and use internet services in the last three months regardless of data speeds ( 3G, 4G or 5G).

| <b>Table 3.1 Monthly Internet Subscriptions</b> |                   |                   |                   |
|---|-------------------|-------------------|-------------------|
| <b>Time/Type of Subs</b>                        | <b>2023</b>       |                   |                   |
|   | <b>APRIL</b>      | <b>MAY</b>        | <b>JUNE</b>       |
| Mobile Wireless Subs                            | 33,120,759        | 33,468,642        | 33,967,699        |
| Fixed Wireless Subs                             | 7,312             | 7,307             | 7,496             |
| Fixed Wired Subs                                | 71,785            | 69,346            | 70,189            |
| <b>TOTAL</b>                                    | <b>33,199,856</b> | <b>33,545,295</b> | <b>34,047,407</b> |

#### 3.2 Trend of Subscriptions for the past Six Years

The number of subscriptions for the past six years is shown in Chart 3.2



The annual internet subscription presented in Chart 3.2 shows an average growth rate of 17% per year. In 2018 there were 23,808,942 subscriptions which increased to 34,045,384 subscriptions at the end of June 2023.

### 3.3 Internet Usage Per Month

Internet usage is counted as the amount of data traffic (in Petabytes) used in a given period. (Note that, 1Petabyte =1024<sup>3</sup> Megabytes)

| <b>Table 3.3 Amount of Data used for the past three months</b> |              |              |              |
|--|--------------|--------------|--------------|
| <b>Month</b>   | <b>2023</b>  |              |              |
|  | <b>Apr</b>   | <b>May</b>   | <b>Jun</b>   |
| Data Traffic (Petabytes)                                       | 78           | 81           | 83           |
| <b>MBs/Subs/Month</b>  | <b>2,366</b> | <b>2,632</b> | <b>2,476</b> |

Data traffic in petabytes presented in Table 3.3 shows that more data were used in June followed by May and the last month is April with an average of 2,491 MB per subscriber per month compared to 2,195 MB in the quarter ending March, 2023.

### 3.4 International Link Capacity

The outgoing and incoming international links capacity supports internet usage locally and internationally. Table 3.4 shows that, the country has enough available capacity for new activations.

**Table 3.4: International internet capacity as of June 2023**

|                              | <b>Outgoing capacity (Gbps)</b> | <b>Incoming capacity (Gbps)</b> |
|------------------------------|---------------------------------|---------------------------------|
| Total/Owned                  | 4,790                           | 4,790                           |
| Activated                    | 1,048                           | 1,048                           |
| Available for New Activation | 3,742                           | 3,742                           |

### 3.5 Roll out of Mobile Broadband Network and Quality of Internet Speed

Investment in the telecommunication infrastructure has increased the rollout of mobile broadband networks covering land and accessed by people as shown in Table 3.5.

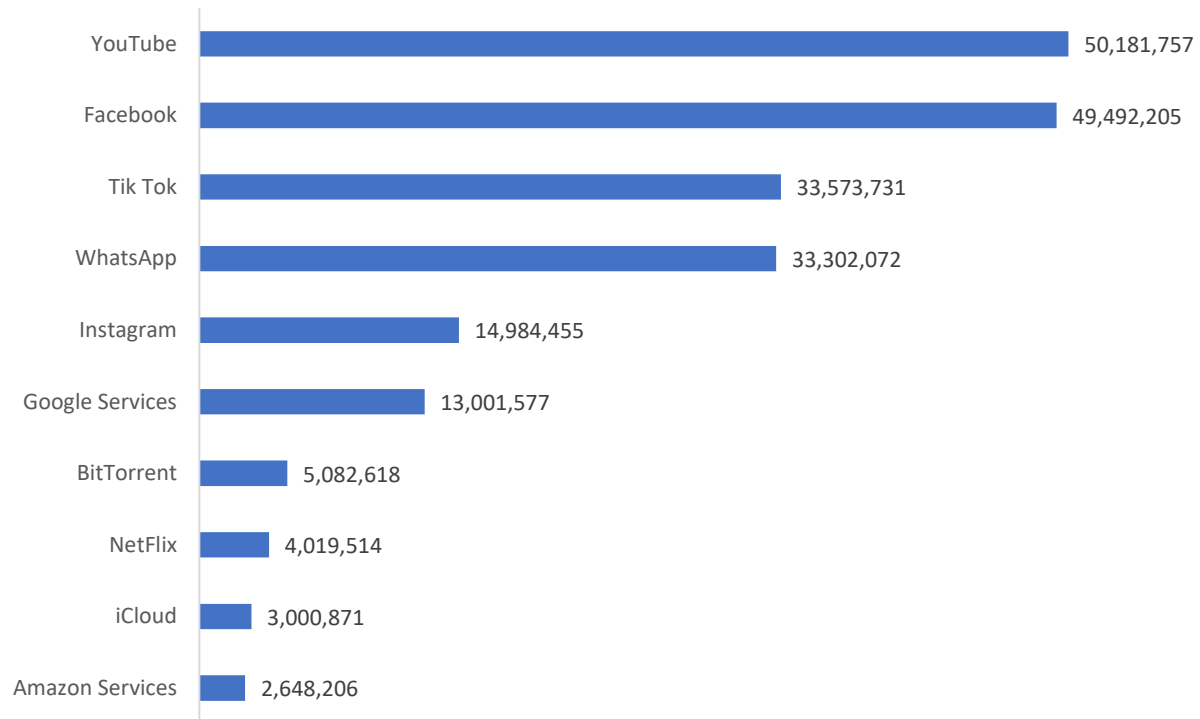
**Table 3.5: Network Coverage and Quality of Internet Speed for Mobile and Fixed as of June 2023**

| S/N | Indicator  | Category              | June 2023    |                |
|-----|--|-----------------------|--------------|----------------|
| 1.  | Percentage of the population covered by a mobile broadband network signal (3G, 4G or higher) | 3G                    | 77%          |                |
|     |  | 4G                    | 65%          |                |
| 2.  | Percentage of Geographical coverage by mobile network signal (3G, 4G or higher)              | 3G                    | 62%          |                |
|     |  | 4G                    | 50%          |                |
| 3.  | Network Quality Indicator: Average download and upload speeds (in Mbit/s)                    |                       | Upload speed | Download speed |
|     |  | Mobile broadband      | 7.23 Mbps    | 14.35 Mbps     |
|     |  | Fixed broadband speed | 22.76 Mbps   | 26.09 Mbps     |

### 3.6 Top 10 Internet Services with Most Bandwidth Usage (In Gb) as of June 2023

During the quarter ending June 2023, the services that used more bandwidth (in GBs) was YouTube with a total of 50.18 million GBs because video streaming services consumed more bandwidth than other services. The second is Facebook with 49.49 million GBs mostly due to video services. Figure 3.6 presents the top 10 internet services with the most bandwidth consumption.

Chart 3.6 Top 10 Internet services with most Bandwidth Usage (GB)



## 4. BROADCASTING SERVICES STATISTICS

Statistics presented here are for Pay TV decoders and Cable TV subscriptions.

### 4.1 Active Decoders

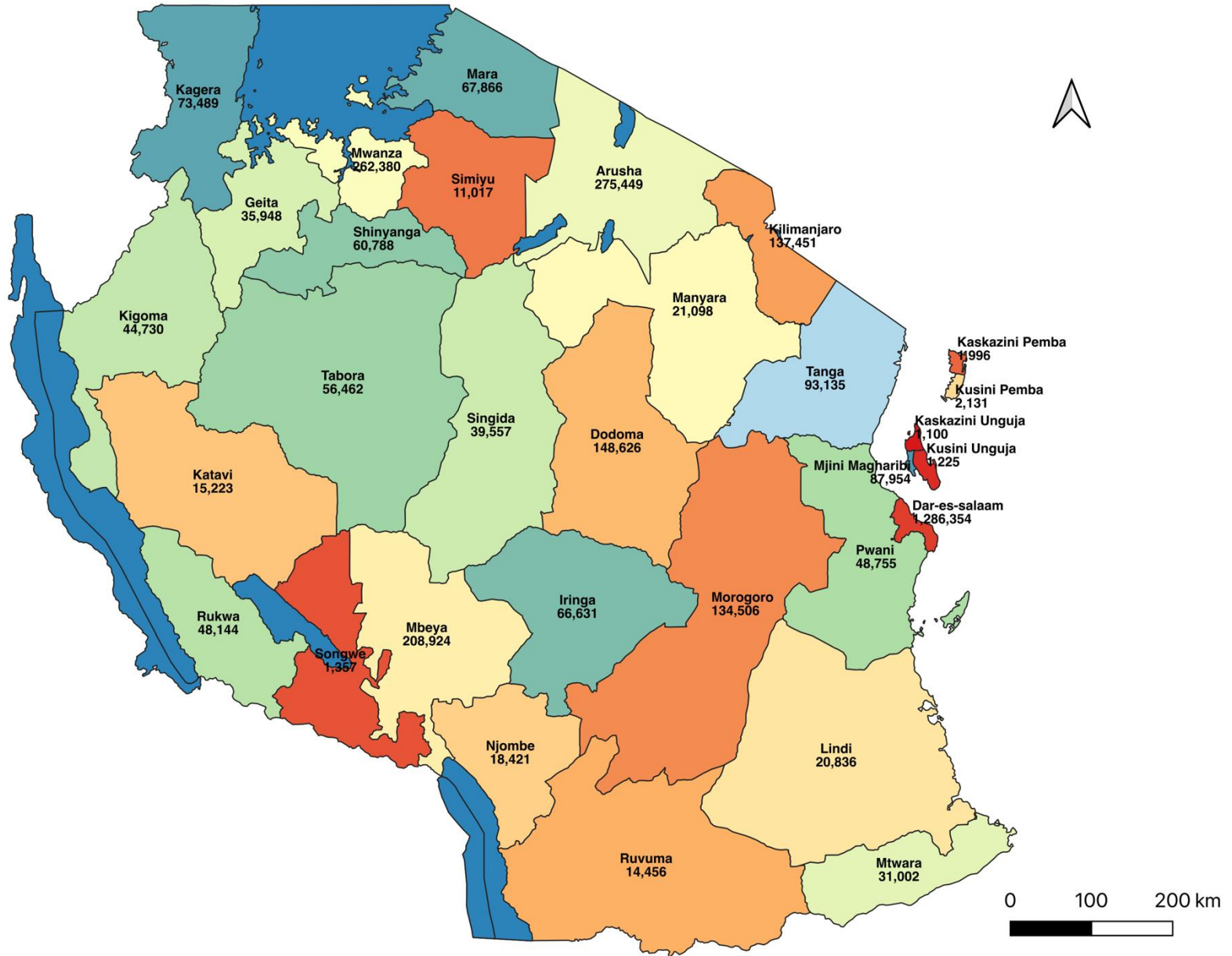
Refers to sold and functional set boxes for TV broadcasting services. It is a count of only functional decoders up to that period.

| <b>Table 4.1 Number of Active Decoders per Operators as of June 2023</b> |                  |                  |                  |
|--|------------------|------------------|------------------|
| <b>Operator</b>  | <b>DTT</b>       | <b>DTH</b>       | <b>TOTAL</b>     |
| Agape  | 2,023            | 1,978            | 4,001            |
| Azam   | 127,569          | 735,047          | 862,616          |
| Continetal   | 39,137           | 27,615           | 66,752           |
| DiGiTek  | 17,392           | 0                | 17,392           |
| DSTv   | 0                | 227,066          | 227,066          |
| Star Times   | 1,514,084        | 619,073          | 2,133,157        |
| Zuku   | 0                | 31,642           | 31,642           |
| <b>TOTAL</b>   | <b>1,700,205</b> | <b>1,642,421</b> | <b>3,342,626</b> |

Table 4.1 shows that, for DTT subscriptions, Star Times is leading by having more subscriptions than other operators. On the DTH platform, Azam is leading by having more subscriptions followed by Star Times.

Based on the regional distribution presented on Map 4.1, Dar es Salaam is ranked first, Arusha ranked second, Mwanza the third and Mbeya ranked fourth and other regions are as presented in the map. The regions in Tanzania mainland fewer active decoders are Songwe, followed by Katavi.

Map 4.1 Number of Decorders in all Regions of Tanzania as of June 2023



## 4.2 Active decoders in the last five Years

The active decoders in the last five years and the number of persons per decoder are shown in Table 4.2

### 4.2 Active decoders in the last five Years and Number of Persons per Decoder

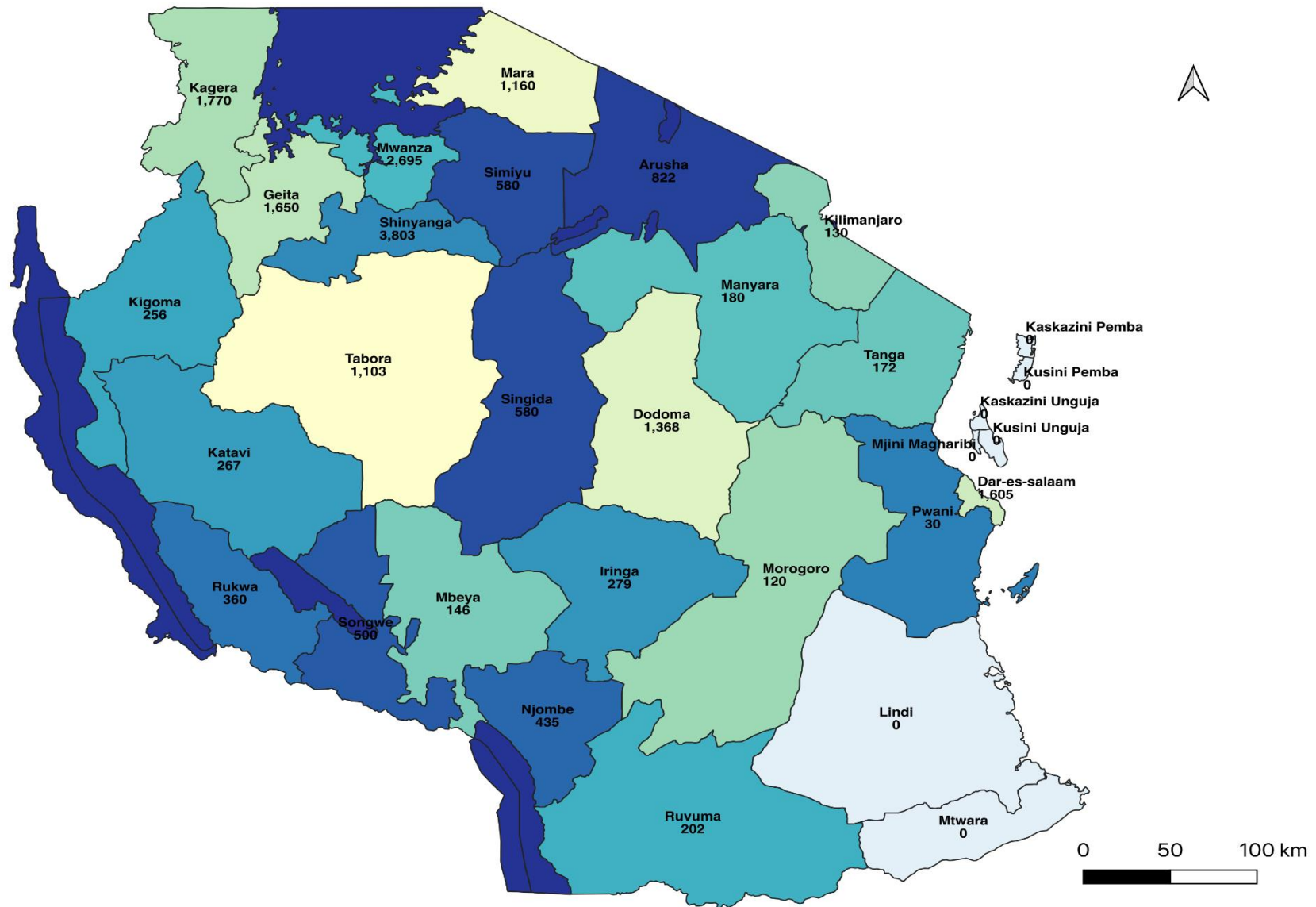
| Year                | 2019      | 2020      | 2021      | 2022      | June 2023 |
|---------------------|-----------|-----------|-----------|-----------|-----------|
| Active Decoders     | 2,525,289 | 2,814,003 | 3,190,346 | 3,370,342 | 3,342,626 |
| One Decoder/Persons | 22        | 20        | 19        | 18        | 18        |

## 4.3 Cable TV Subscriptions

These are subscriptions by consumers on television services provided via radio frequency (RF) signals transmitted through coaxial cables, or fiber-optic cable.



Map 4.3: Cable TV Subscribers in Tanzania as of June 2023



### 4.3.1 Trend of Cable Subscribers

The trend of cable subscriptions over the past six years is shown in Table 4.3.1

**Table:4.3.1 Number of Cable Subscriptions for past Six Years**

| Year          | 2018   | 2019   | 2020   | 2021   | 2022   | June.2023 |
|---------------|--------|--------|--------|--------|--------|-----------|
| Subscriptions | 16,786 | 15,245 | 14,350 | 42,822 | 22,295 | 20,213    |

Cable TV subscription has been increasing over time as seen from Table 4.3.1. The distribution of cable TV subscribers is mainly around the lake zone lead by Shinyanga region with total of 3,803 subscribers followed by Mwanza with total of 2,695 subscribers. The total subscription remains the same as that of quarter ending March, 2023

## 5. POSTAL AND COURIER SERVICES STATISTICS

Postal and Courier Services statistics include but are not limited to posting and delivering postal and courier items.

This section presents statistics for such items as mails, parcels and documents that are posted to and delivered from local (Domestic), East Africa (EA) and Rest of the World (RoW).

### 5.1 Posted Items

These are items such as mails, parcels and documents posted within the country (local), to East African Countries (EAC) and the Rest of the World (RoW).

| Table 5.1 Posted Items in the Quarter Apr-Jun2023 |         |         |           |         |
|---|---------|---------|-----------|---------|
|   | Mails   | Parcels | Documents | TOTAL   |
| Local   | 232,598 | 69,071  | 134,719   | 436,388 |
| EA  | 134,719 | 2,310   | 6,422     | 143,451 |
| RoW   | 4,450   | 78,412  | 4,034     | 86,896  |

Table 5.1 shows that more items were posted to local market, followed by East Africa countries .

### 5.2 Delivered Items

Delivered items are from EAC and the rest of the world is presented in table 5.2. More items were delivered from the rest of the world compared to East Africa countries.

| Table 5.2 Delivered Items from EA and RoW |        |         | Apr-Jun 2023 |
|---|--------|---------|--------------|
|   | Mails  | Parcels | Packets      |
| EA  | 3,592  | 4,847   | 418          |
| RoW                                       | 50,633 | 12,424  | 4,448        |

### 5.3 Annual Posted Items for the past six years

**Table 5.3: Annual Posted Items for the past six years**

| Year             | 2018              | 2019              | 2020             | 2021             | 2022             | June.2023        |
|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|
| To Domestic      | 7,065,527         | 9,280,229         | 4,024,371        | 2,745,674        | 2,160,905        | 878,753          |
| To International | 3,753,746         | 2,873,312         | 1,116,069        | 564,528          | 260,394          | 454,257          |
| <b>TOTAL</b>     | <b>10,819,273</b> | <b>12,153,541</b> | <b>5,140,440</b> | <b>3,310,202</b> | <b>2,423,321</b> | <b>1,333,010</b> |

The trend on Table 5.3 shows that more items are posted to domestic destination than to international destination. However, the posted traffic has been decreasing over time as presented in the table.

### 5.4 Annual International Posted and Delivered Items for the past six years

| 5.4 Annual International Posted and Delivered Items for the past six years |           |           |           |         |         |           |
|--|-----------|-----------|-----------|---------|---------|-----------|
| Year   | 2018      | 2019      | 2020      | 2021    | 2022    | June 2023 |
| Posted to Int  | 3,753,746 | 2,873,312 | 1,116,069 | 564,528 | 260,394 | 454,257   |
| Delivered from Int   | 7,999,942 | 3,927,692 | 1,391,829 | 958,121 | 394,152 | 96,097    |

Table 5.4 shows the trend of posted and delivered items to and from international destinations. Posted items to international destinations have been decreasing from 5,098,728 items in 2018 to 937,124 items in 2022. On the other side, delivered items experienced the same trend of dropping down. The trend indicates at any point more items have been posted to international than delivered from international.

## 6. QUALITY OF SERVICES & FRAUDS PRACTICES STATISTICS

### 6.1 Quality of Service (QoS)

QoS measurements were conducted considering the QoS parameters and measurement methods specified in the Electronic and Postal Communications (Quality of Service) Regulations 2018.

#### 6.1.1 Quality of Service Results

The following is the summary on quality of service results for Mobile Network Operators in Tanzania for the period of April to June, 2023.

##### 6.1.1.1 Network Availability

This is a measure of how well the mobile network is available when consumers want to use mobile network services. The threshold for compliance is greater than 99%. Vodacom and Airtel passed the target in all seven (7) measured service areas, MIC-Tigo failed to reach target only in Kahama, MIC-Zantel failed to reach target only in kahama, Halotel failed to reach target only in Rukwa while TTCL failed to reach target only in Kigoma as shown in chart 6.1.1.1

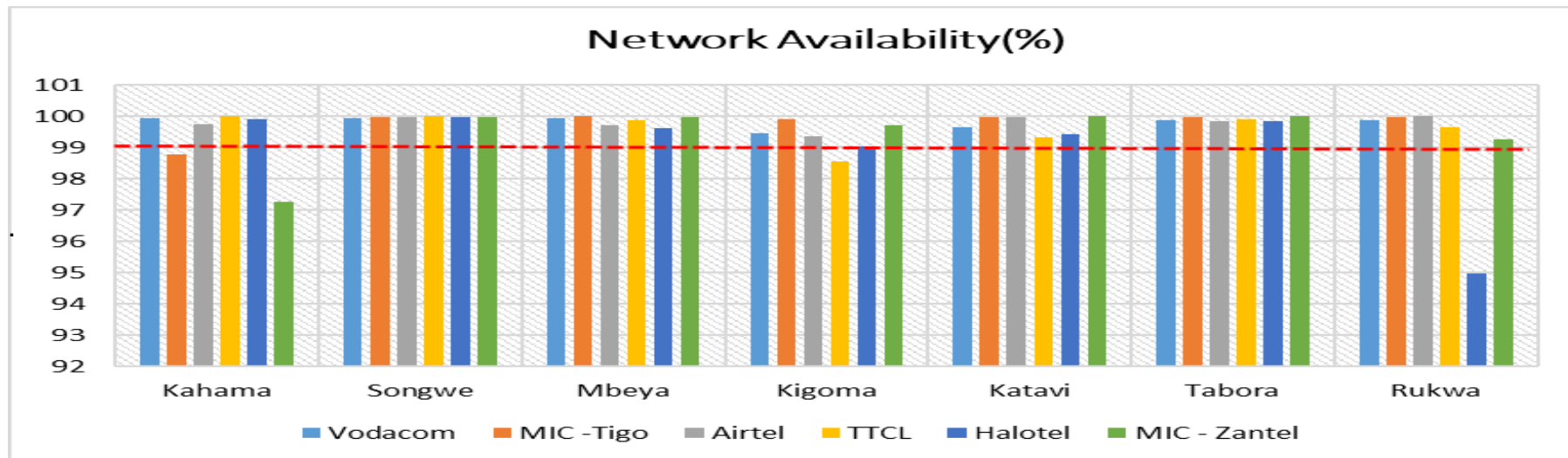


Chart 6.1.1.1: Network Availability (%)

### 6.1.1.2 Call Connection Failure Rate

This is a measure of percentage of calls failed to connect after dialing due to technical reasons. The threshold for compliance is less than 2%. Vodacom failed to reach target only in Rukwa, MIC-Tigo failed to reach target only in Kahama while MIC-Zantel failed to reach target in Kahama, Kigoma and Tabora. Halotel failed to reach target in Mbeya, Songwe and Katavi, Airtel failed to reach target in four (4) service areas while TTCL failed to reach target in five (5) service areas as shown in chart 6.1.1. 2.

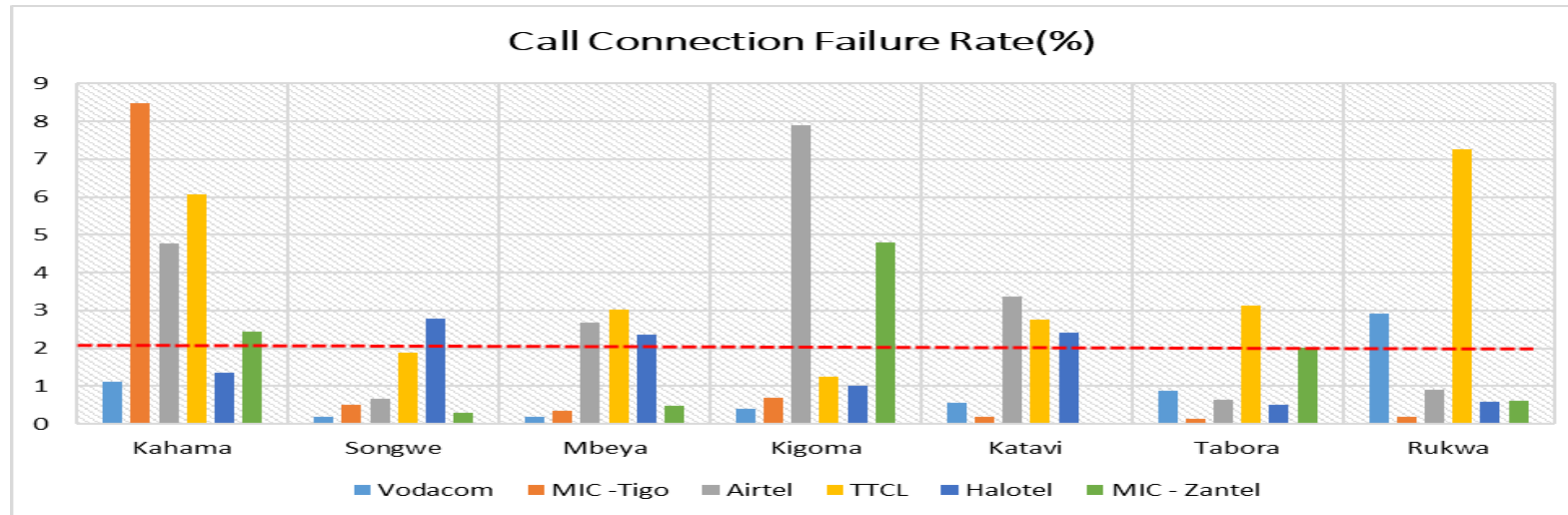


Figure 6.1.1.2: Comparative results on the Call Connection Failure Rate

### 6.1.1.3 Call Drop Rate

This is a measure of percentage of calls which were cut off due to technical reasons before the speaking parties finish their conversation and before one of them hang up (dropped calls). The threshold for compliance is less than 2%. Vodacom, MIC-Tigo TTCL, Halotel and MIC-Zantel passed target in all seven (7) measured service areas, while Airtel failed to reach target in Tabora and Mbeya as shown in Figure 6.1.1.3.

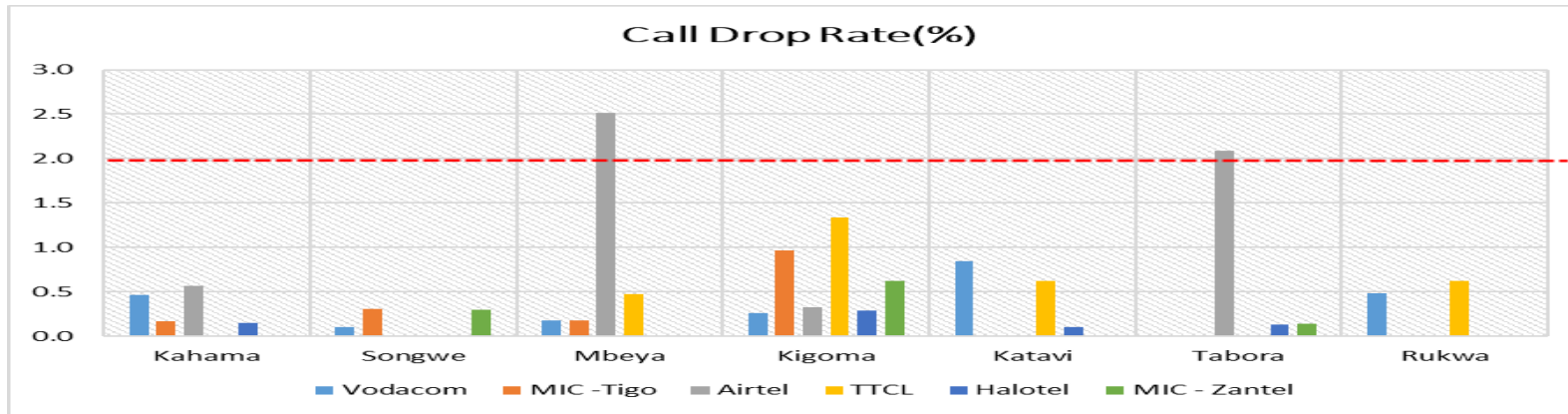


Figure 6.1.1.3: Comparative results on the Call Drop Rate

#### 6.1.1.4 2G Service Coverage

This is a measure of how well service areas are covered by a particular mobile network operator signal for consumers to get mobile network service. In areas with no coverage or very poor coverage, consumers cannot get mobile network services. Threshold for compliance for 2G technologies is -85 dBm. MIC –Tigo, Airtel, Vodacom, Halotel and MIC -Zantel passed target in all seven (7) measured service areas while TTCL failed to reach target only in Mbeya as shown in Figure 6.1.1.4.

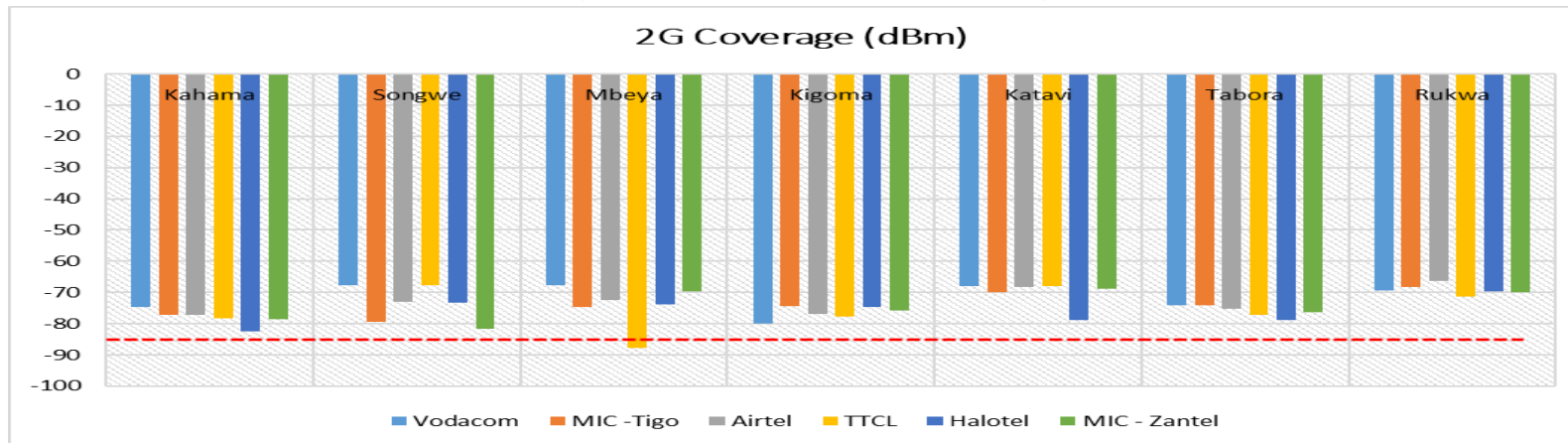


Figure 6.1.1.4: Comparative results on 2G Coverage

### 6.1.1.5 3G Service Coverage

This is a measure of how well service areas are covered by a particular mobile network operator signal for consumers to get mobile network service. In areas with no coverage or very poor coverage, consumers cannot get mobile network services. Threshold for compliance for 3G technologies is -85 dBm. Vodacom, MIC-Tigo TTCL, Halotel, TTCL and MIC-Zantel Halotel passed target in all seven (7) measured service areas as shown in Figure. 6.1.1.5

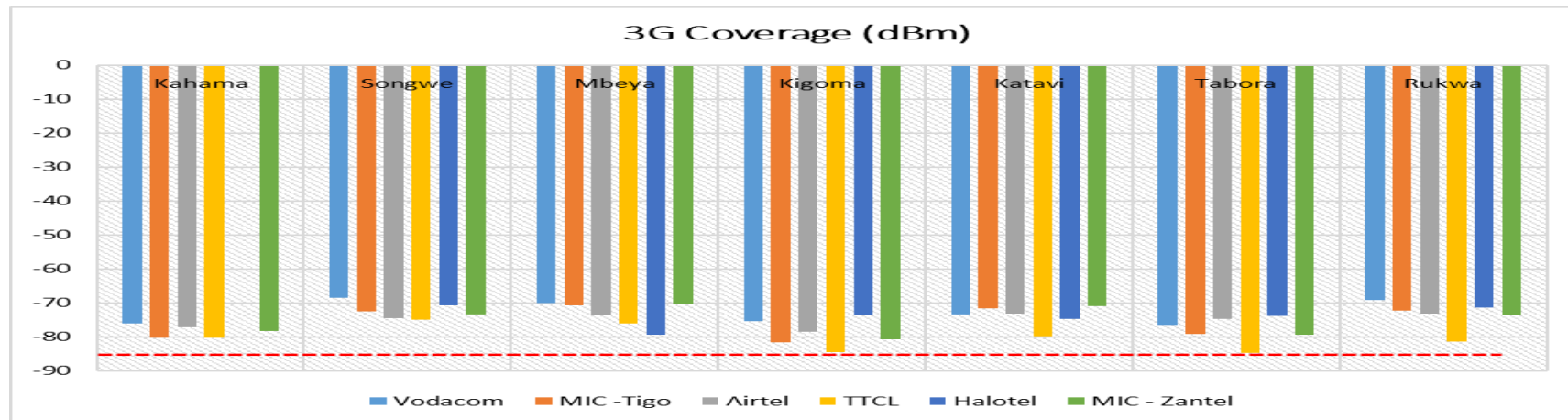


Figure . 6.1.1.5: Comparative results on 3G Coverage

### 6.1.1.6 4G Service Coverage

This is a measure of how well service areas are covered by a particular mobile network operator signal for consumers to get mobile network service. In areas with no coverage or very poor coverage, consumers cannot get mobile network services. Threshold for compliance for 4G technologies is -95 dBm. Vodacom, MIC-Tigo, MIC-Zantel, Halotel and Airtel passed target in all seven (7) measured service areas, while TTCL failed to reach target only in Katavi as shown in Figure 6.1.1.6



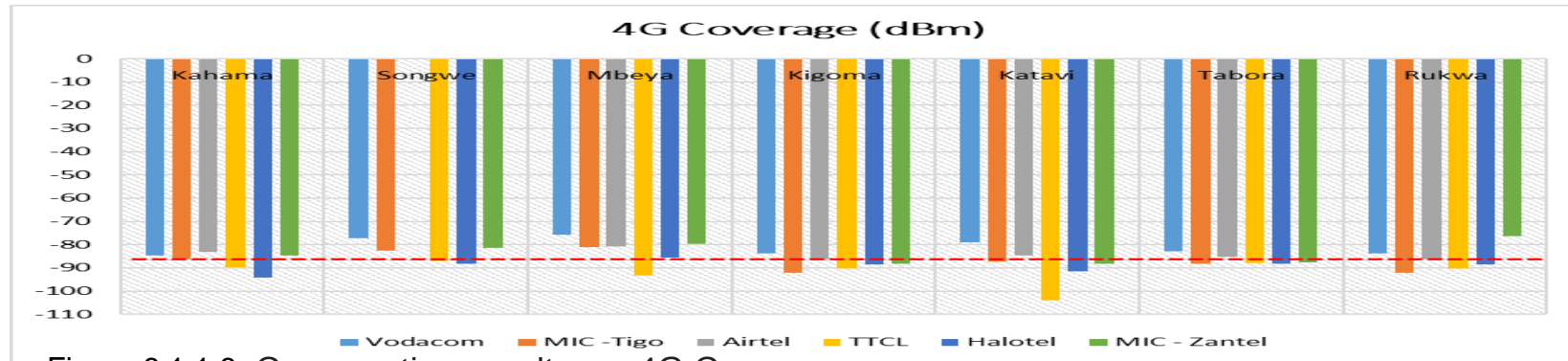


Figure 6.1.1.6: Comparative results on 4G Coverage

### 6.1.1.7 Voice Quality (MOS)

This is a measure of the perception of the audio quality of the conversation during a call. The MOS Score scale ranges from 1 to 5 with 1 being poor and 5 being excellent audio quality. Threshold for compliance is an average of all Voice Quality (MOS) measurements samples being greater than 3.5. Vodacom, MIC-Tigo, TTCL, Airtel, Halotel and MIC-Zantel passed target in eighteen (18) measured service areas as shown in Figure 6.1.1.7.

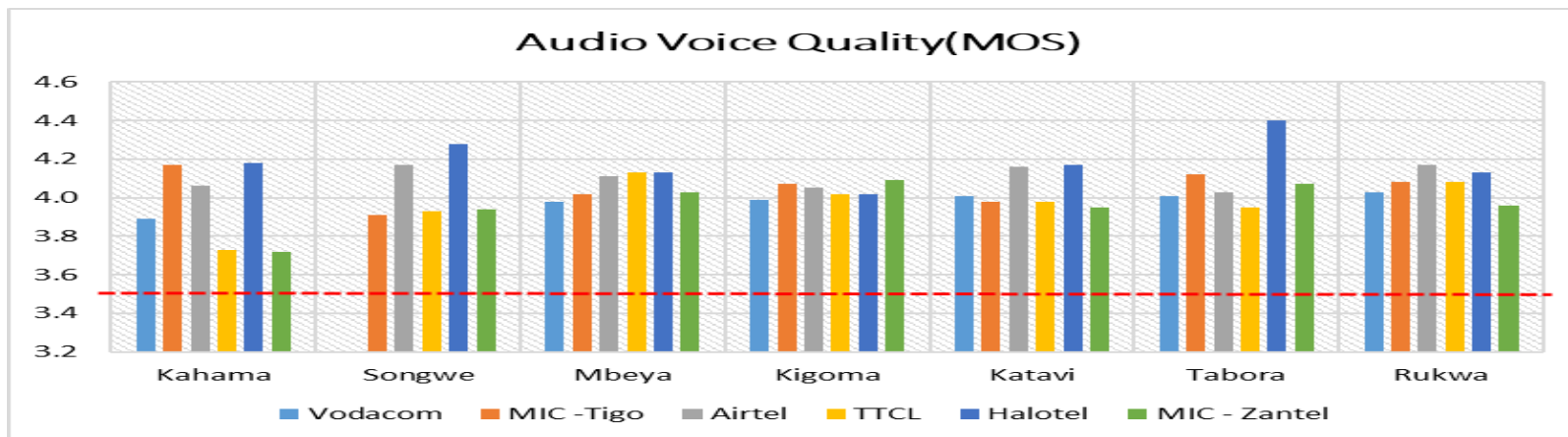


Figure 6.1.1.7: Comparative results on Voice Quality

### 6.1.1.8 Download Mean Data Rate

This is a measure of the rate of data transfer on a network. It measures how fast data is transferred from a file transfer protocol (FTP) server to a mobile device. It is measured in kilobits per second (kbps) and the threshold for compliance is average being greater or equal to 4000 kbps. Vodacom, MIC-Tigo and Halotel passed target in all seven (7) measured service areas, MIC-Zantel failed to reach target only in Kahama, while Airtel and TTCL failed to reach target in Kahama and Katavi as shown in Figure 6.1.18.

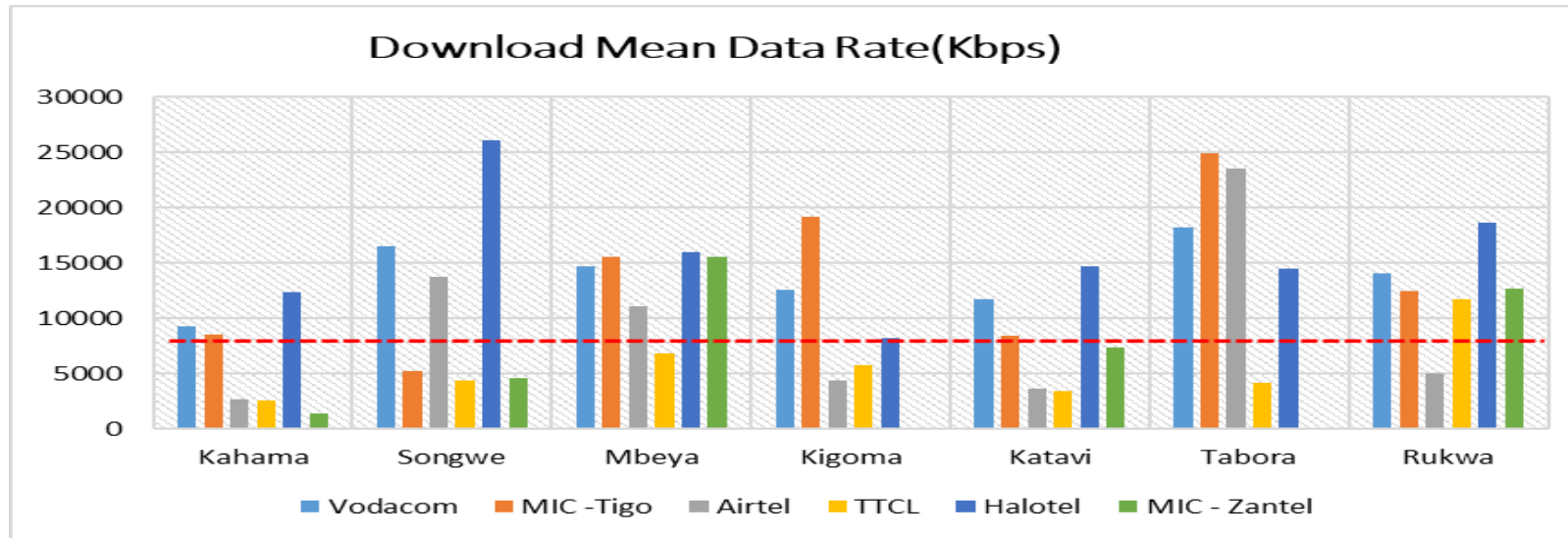


Figure 6.1.1.8: Comparative results on Download Mean Data Rate

### 6.1.1.9 Call setup time

This is a measure of time taken for a call to connect after dialing. The threshold for compliance is less than 10 seconds. Vodacom, MIC-Tigo, Airtel and Halotel passed target in all seven (7) measured service areas, MIC-Zantel TTCL failed to reach target in Kigoma and Tabora while TTCL failed to reach target in Kahama, Songwe and Rukwa as shown in Figure 6.1.1.9.

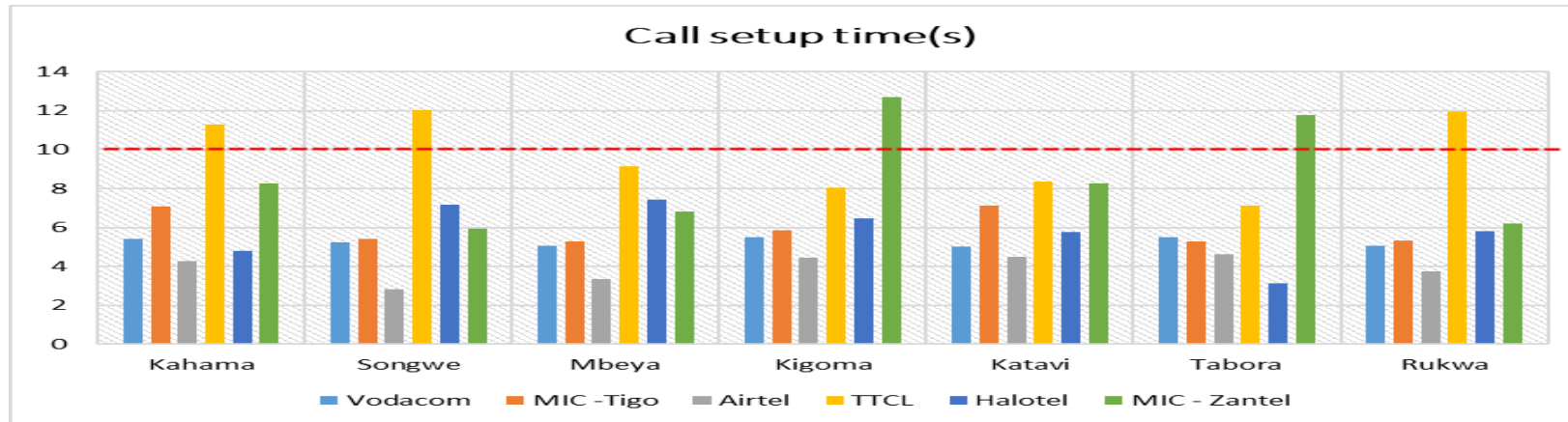
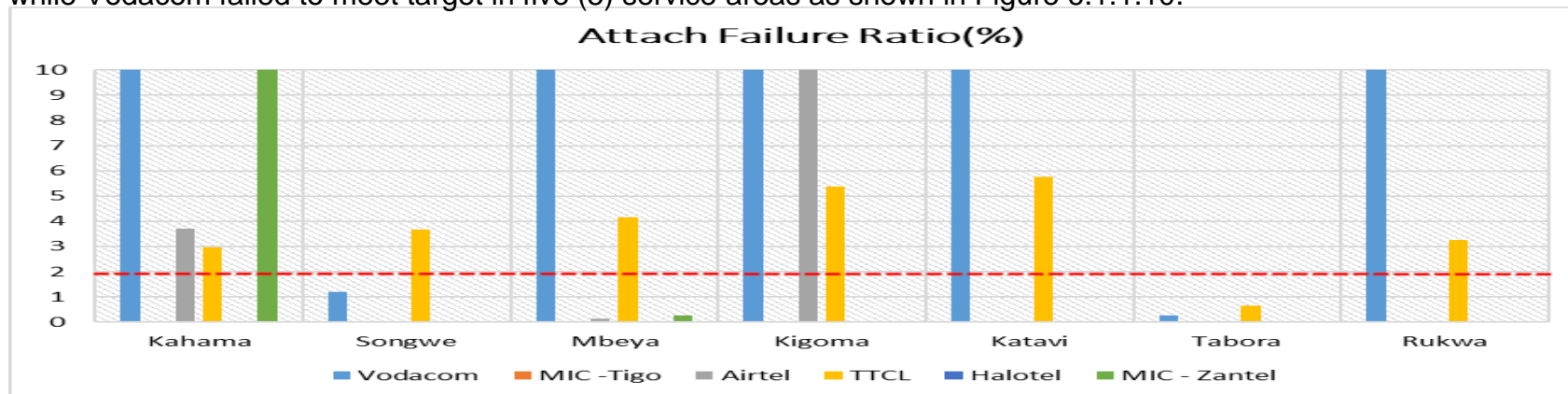


Figure 6.1.1.9: Comparative results on Call setup time

#### 6.1.1.10 Attach Failure Ratio

This is a percentage of failures when a mobile phone fail to connect to network when powered ON or flight mode turned OFF. The threshold for compliance is less than 2%. MIC-Tigo and Halotel passed target in all seven (7) measured service areas, MIC-Zantel failed to reach target only in Kahama, Airtel failed to reach target in Kigoma and Kahama, TTCL failed to reach target in six (6) service areas while Vodacom failed to meet target in five (5) service areas as shown in Figure 6.1.1.10.



6.1.1.10: Comparative results on Attach Failure Ratio

### 6.1.1.11 Attach setup time

This is a measure of time taken mobile phone to connect to network when powered ON or flight mode turned OFF. The threshold for compliance is less than 5 seconds. Vodacom, MIC-Tigo, TTCL, Airtel, Halotel and MIC-Zantel passed target in all seven (7) measured service areas as shown in Figure 6.1.1.11.

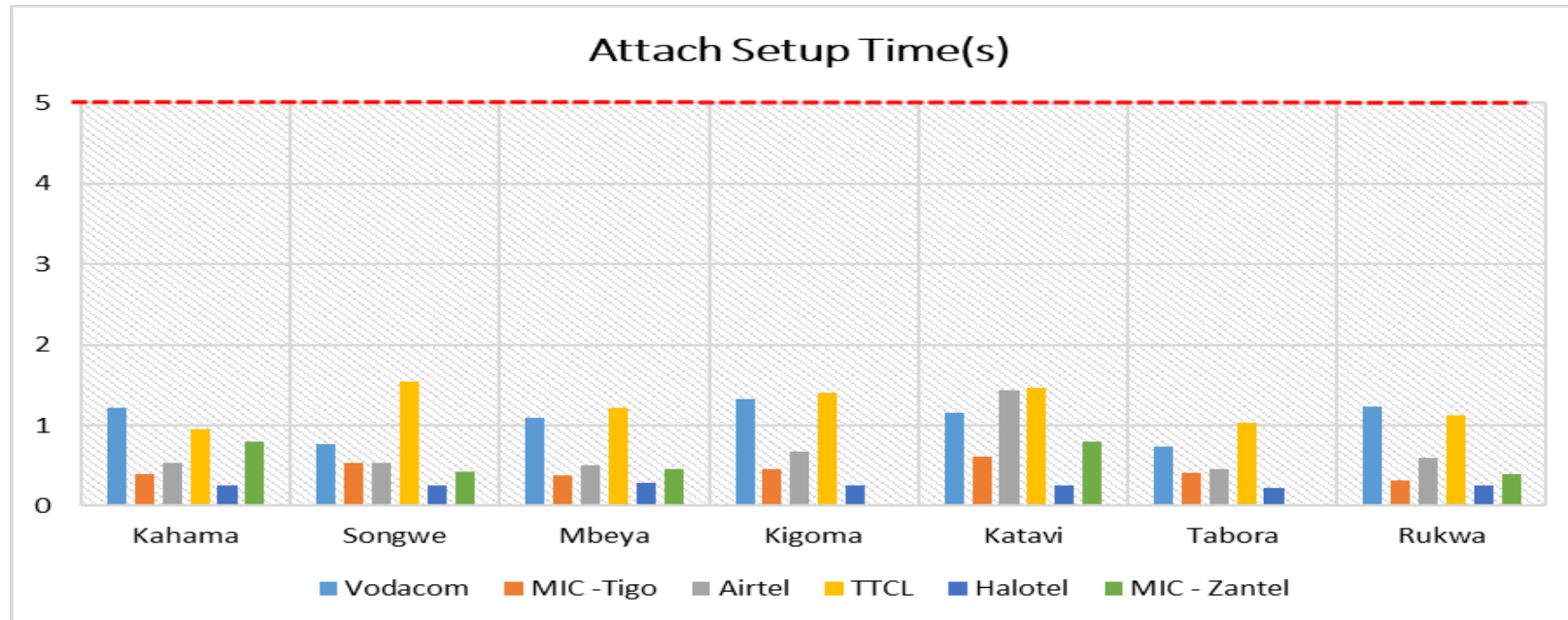


Figure 6.1.1.11: Comparative results on Attach setup time

### 6.1.1.12 Ping Round Trip Time

This is the length time it takes for a data packet to be sent to a destination plus the time it takes for an acknowledgment. The threshold for compliance is less than 400 milliseconds. Vodacom, MIC-Tigo, MIC-Zantel and Halotel passed target in all seven (7) measured service areas, Airtel failed to reach target only in Katavi while TTCL failed to reach target in five (5) service areas as shown in Figure 6.1.1.12.

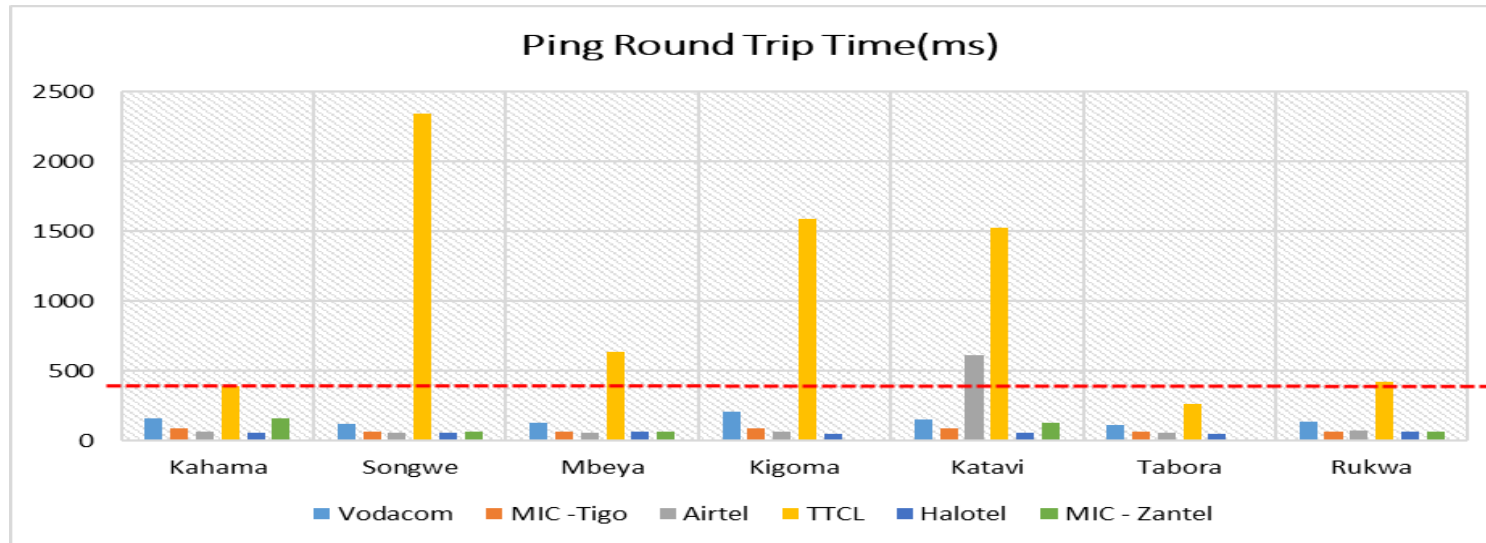


Figure 6.1.1.12.: Comparative results on Ping Round Trip Time

## 6.2 Fraudulent Practices

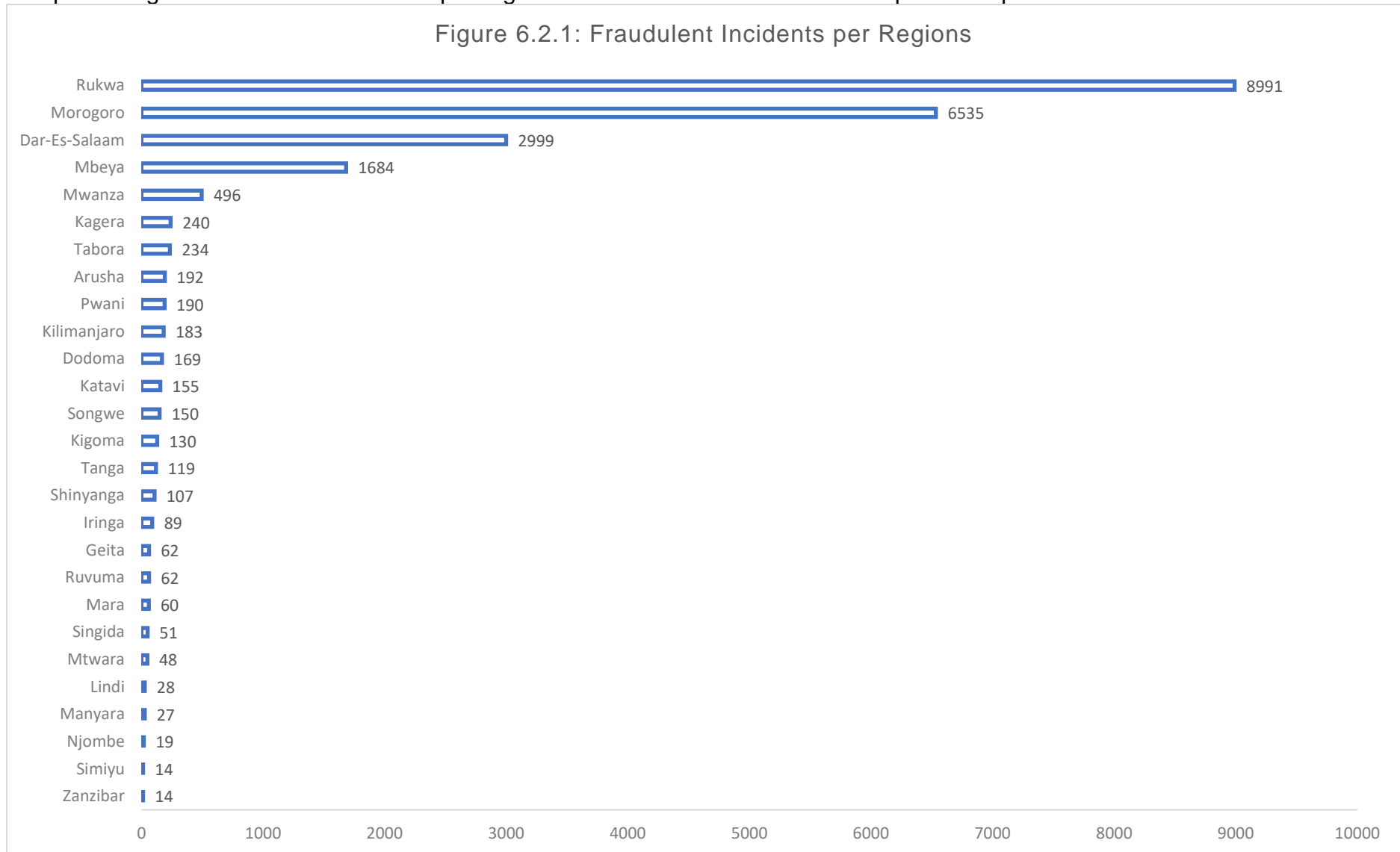
The Table 6.2 shows fraudulent practices per region per operators. While regionwise, Rukwa committed more frauds than any other region in Tanzania, networkwise, more fraudulent practices occurred at Airtel network than other MNOs.

Table 6.2 represents fraudulent practice per Mobile network operator in each region

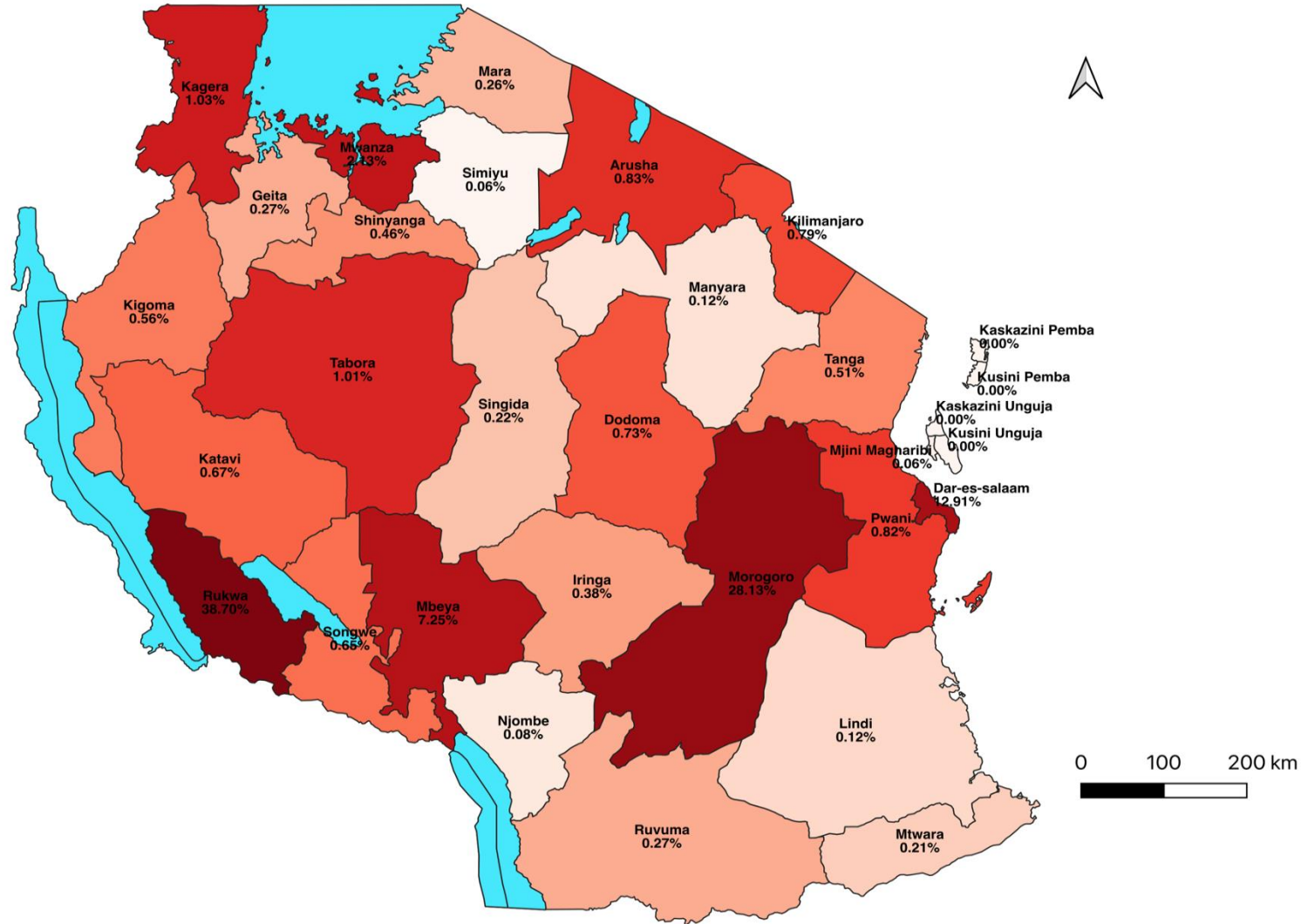
| Region        | Airtel | Halotel | Tigo | TTCL | Vodacom | Grand Total |
|---------------|--------|---------|------|------|---------|-------------|
| Rukwa         | 5293   | 126     | 2471 | 292  | 809     | 8991        |
| Morogoro      | 2165   | 211     | 3268 | 4    | 887     | 6535        |
| Dar-Es-Salaam | 1608   | 34      | 732  | 5    | 620     | 2999        |
| Mbeya         | 552    | 19      | 516  | 71   | 526     | 1684        |
| Mwanza        | 115    | 16      | 91   | 0    | 274     | 496         |
| Kagera        | 20     | 18      | 37   | 0    | 165     | 240         |
| Tabora        | 44     | 19      | 43   | 46   | 82      | 234         |
| Arusha        | 52     | 5       | 71   | 5    | 59      | 192         |
| Pwani         | 50     | 8       | 55   | 1    | 76      | 190         |
| UNKNOWN       | 33     | 0       | 5    | 0    | 148     | 186         |
| Kilimanjaro   | 11     | 8       | 123  | 1    | 40      | 183         |
| Dodoma        | 26     | 7       | 95   | 6    | 35      | 169         |
| Katavi        | 0      | 25      | 7    | 45   | 78      | 155         |
| Songwe        | 0      | 4       | 58   | 88   | 0       | 150         |
| Kigoma        | 50     | 5       | 11   | 2    | 62      | 130         |
| Tanga         | 45     | 4       | 49   | 2    | 19      | 119         |
| Shinyanga     | 20     | 10      | 23   | 8    | 46      | 107         |
| Iringa        | 17     | 4       | 39   | 5    | 24      | 89          |
| Ruvuma        | 4      | 7       | 39   | 3    | 9       | 62          |
| Geita         | 0      | 6       | 7    | 3    | 46      | 62          |
| Mara          | 11     | 7       | 5    | 2    | 35      | 60          |
| Singida       | 2      | 4       | 18   | 0    | 27      | 51          |
| Mtwara        | 7      | 3       | 8    | 28   | 2       | 48          |
| Lindi         | 4      | 1       | 17   | 0    | 6       | 28          |
| Manyara       | 0      | 3       | 12   | 4    | 8       | 27          |
| Njombe        | 0      | 2       | 2    | 1    | 14      | 19          |
| Zanzibar      | 4      | 1       | 5    | 0    | 4       | 14          |
| Simiyu        | 0      | 3       | 0    | 5    | 6       | 14          |

The summary of fraudulent practices in percentage per region and per MNO are shown in Chart 6.1 and Chart 6.2 respectively. Rukwa region is still leading by **38.7%**, followed by Morogoro with **28.13%**, Dar es Salaam with **12.91%** and Mbeya with **7.25%**. The number and percentage of fraudulent distributions per region are shown in Chart 6.2 and Map 6.2 and per MNO in Chart 6.3

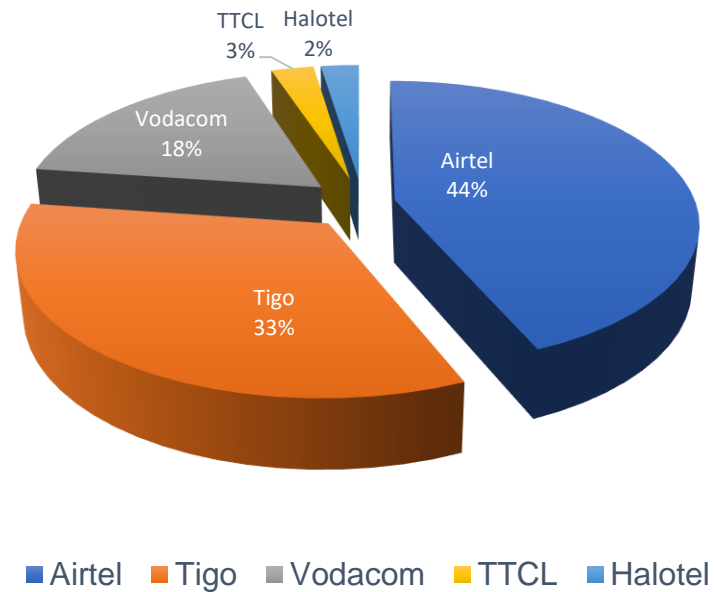
Figure 6.2.1: Fraudulent Incidents per Regions



Map 6.2: Percentage Distribution of Fraudulent Practices Per Region from April-June, 2023





**Figure 6.2.2: Fraudulent Incidents per Operator**

Airtel leads on fraudulent practice with 44% of all frauds incidences occurred in quarter ending June 2023. Tigo follows closely with 33% and Vodacom with 18%. Few (only 3%) frauds occurred in TTCL network

## 7.0 COUNTRY CODE TOP LEVEL DOMAINS

TCRA is the sponsoring entity delegated by the Internet Corporation for Assigned Names and Numbers (ICANN) to administer and manage the dot TZ domain name registry. The registry management is governed by the Electronic and Postal Communications (Domain Name Management) Regulations, 2020.

Registries across the globe have adopted a 3R model, where registries and registrars collaborate in day-to-day operations. Like other registries globally, the dot TZ registry uses accredited registrars to register domains on behalf of the registry. The accredited registrars are the main and only distribution channel of the dot TZ domain names. They are strategic partners to the registry as they sell services that add value and bring domain names to life.

Domain name means a unique name that identifies internet resources such as websites that is registered as second level and/or third level domain under .tz Country Code Top Level Domain (ccTLD).

The total cumulative number of domain names registered has increased from **27,844** at the end of March 2023 to **28,076** at the end of June 2023 as presented in table 7.1.

Table 7.1: Domain Names Statistics as of June 2023

| S/N          | ZONE     | NUMBER OF DOMAIN NAMES<br>END OF MARCH,2023 | NUMBER OF DOMAIN<br>NAMES END OF JUNE ,2023 |
|--------------|----------|---|---|
| 1.           | co.tz    | 22,083                                      | 22,204                                      |
| 2.           | or.tz    | 2,350                                       | 2,353                                       |
| 3.           | ac.tz    | 984   | 999   |
| 4.           | go.tz    | 864   | 871   |
| 5.           | tz       | 1250  | 1,343                                       |
| 6.           | sc.tz    | 227   | 231   |
| 7.           | ne.tz    | 45  | 37  |
| 8.           | me.tz    | 13  | 12  |
| 9.           | info.tz  | 8   | 6   |
| 10.          | hotel.tz | 4   | 4   |
| 11.          | mobi.tz  | 5   | 5   |
| 12.          | tv.tz    | 7   | 7   |
| 13.          | mil.tz   | 4   | 4   |
| <b>TOTAL</b> |          | <b>27,844</b>                               | <b>28,076</b>                               |

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