Africa - Fixed-line, Internet and Broadband Statistics (tables only)

Description: This report (10th Edition) provides 280 statistical tables and 27 charts for the fixed-line, Internet and broadband activities for the major 42 African countries.

Fixed-line

While being the world's most rapidly growing market for mobile telephony, Africa is also home to some of the fastest growing fixed-line markets in the world. Roughly half of the continent's 54 countries had positive growth in the fixed-line sector in 2011 and at least seven of them saw double digit growth rates, while in some of the other markets fixed lines are rapidly being replaced by mobile phones. However, as lower income groups are being targeted, a price-sensitive market for lower-cost fixed or limited-mobility services has emerged, and a surge in demand for internet access and broadband capabilities is accelerating this fixed-line renaissance.

Problems with vandalism and copper theft have led many telcos to substitute traditional fixed lines with fixed-wireless solutions for both voice and data services. For over 50 operators across Africa, CDMA-2000 has been the technology of choice for this market segment, which supports broadband data rates with an upgrade to EV-DO standard. It also supports full mobility, and converged licensing regimes in a growing number of countries are now allowing these operators to move into the mobile sector as well. Foreign investors are scrambling for positions in this very lucrative market as liberalisation continues, national telcos are being privatised and new operating licenses issued.

Large parts of Africa have gained access to international fibre bandwidth for the first time via submarine cables in recent years. In other parts of the continent, additional fibre systems have brought competition to a previously monopolised market. This has led to massive investments into terrestrial fibre backbone infrastructure to take the new bandwidth to population centres in the interior and across borders into landlocked countries. However, satellite will continue to play a significant role in reaching Africa's extensive rural and remote areas.

Internet and broadband

Africa's Internet and broadband sector is set to benefit the most from these developments. Wholesale prices for Internet bandwidth have come down by as much as 90% from previous levels based on satellite access, and the cost savings are slowly being passed on to the retail level as well. Broadband is rapidly replacing dial-up as the preferred access method, and this process is already virtually completed in the continents more developed markets.

Most African countries now have commercial DSL services, but their growth is limited by the poor geographical reach of the fixed-line networks. Improvements in internet access were therefore mostly confined to the capital cities initially. However, the rapid spread of third and fourth generation mobile broadband services is changing this, with the mobile networks bringing internet access to many areas outside of the main cities for the first time. WiMAX and meshed WiFi technology has also gained ground in Africa with well over 100 networks providing wireless broadband access.

Data in this report is the latest available at the time of preparation and may not be for the current year.

Researcher: Peter Lange

Contents:
1. National Comparisons Fixed-Line and Internet
   1.1 Internet
   1.2
2. Algeria
   2.1 Overview
   2.2 Fixed-line operations
   2.3 Internet
2.3.1 Forecast Internet users 2013; 2016
2.4 Broadband pricing

3. Angola
3.1 Overview
3.2 Fixed-line operations
3.3 Internet

4. Benin
4.1 Overview
4.2 Fixed-line operations
4.3 Internet
4.4 Broadband

5. Botswana
5.1 Overview
5.2 Fixed-line operations
5.2.1 Operator statistics
5.3 Internet

6. Burkina Faso
6.1 Overview
6.2 Fixed-line operations
6.3 Internet
6.3.1 Operator statistics
6.4 Broadband
6.4.1 Operator statistics

7. Burundi
7.1 Overview
7.2 Fixed-line operations
7.3 Internet

8. Cameroon
8.1 Overview
8.2 Fixed-line operations
8.3 Internet

9. Chad
9.1 Overview
9.2 Fixed-line operations

10. Internet

11. Cote d'Ivoire
11.1 Overview
11.2 Fixed-line operations

12. Internet
12.1 Broadband pricing

13. Democratic Republic of Congo
13.1 Overview
13.2 Fixed-line operations
13.3 Internet

14. Djibouti
14.1 Fixed-line operations
14.2 Internet
14.3 Broadband

15. Egypt
15.1 Overview
36.3.1 Operator statistics

37. Somalia
37.1 Overview
37.2 Fixed-line operations
37.3 Internet

38. South Africa
38.1 Overview
38.2 Fixed-line operations
38.2.1 Operator statistics
38.3 Internet
38.3.1 Internet user forecasts 2013; 2016
38.4 Broadband
38.4.1 Operator statistics
38.4.2 Broadband subscriber forecasts 2013; 2016
38.5 Digital economy

39. Sudan
39.1 Overview
39.2 Fixed-line operations
39.2.1 Operator statistics
39.3 Internet
39.4 Broadband pricing

40. Swaziland
40.1 Overview
40.2 Fixed-line operations
40.2.1 Operator statistics
40.3 Internet
40.3.1 Operator statistics
40.4 Broadband pricing

41. Tanzania
41.1 Overview
41.2 Fixed-line operations
41.3 Internet
42. Tunisia
42.1 Overview
42.2 Fixed-line operations
42.3 Internet
42.4 Broadband

43. Uganda
43.1 Overview
43.2 Fixed-line operations
43.2.1 Operator statistics
43.3 Internet
43.4 Broadband pricing

44. Zambia
44.1 Overview
44.2 Fixed-line operations
44.3 Internet
44.4 Broadband pricing

45. Zimbabwe
45.1 Overview
45.2 Fixed-line operations
45.3 Internet
45.4 Broadband pricing
Table 127 – Libya – fixed lines in service and teledensity – 1995 - 2012
Table 128 – Libya – Internet users and penetration rate – 1999 - 2012
Table 129 – Madagascar – key national statistics – 2012
Table 130 - Madagascar - estimated market penetration rates – end 2012
Table 131 – Madagascar – fixed lines in service and teledensity – 2000 - 2012
Table 132 – Madagascar – Internet users and penetration rate – 2000 - 2012
Table 133 – Madagascar – Internet KPIs: international internet bandwidth, traffic and revenue – 2007 - 2010
Table 134 – Malawi – key national statistics – 2012
Table 135 - Malawi - estimated market penetration rates – end 2013
Table 136 – Malawi - fixed lines in service and teledensity – 1999 - 2013
Table 137 – Malawi - Internet users and penetration rate – 1999 - 2013
Table 138 – Malawi - Sotelma fixed-line statistics – 2008 - 2012
Table 139 – Malawi - Sotelma financial results – 2007 - 2008
Table 140 – Malawi - Sotelma financial results – 2009 – 2011 (after privatisation)
Table 141 – Malawi – Sotelma revenue – 2011 - 2012
Table 142 – Mali - fixed-lines in service and teledensity – 1999 - 2013
Table 143 – Mali – fixed lines in service and teledensity – 1999 - 2013
Table 144 – Mali – Sotelma financial results – 2004 - 2010
Table 145 – Mali – International internet bandwidth – 1999 - 2010
Table 146 – Mali – International broadband subscribers – 2004 - 2011
Table 147 – Mauritius – key national statistics – 2012
Table 148 - Mauritius - estimated market penetration rates – end 2012
Table 149 – Mauritius – fixed lines in service and teledensity – 1999 - 2012
Table 150 – Mauritius Telecom Group financial results – 2004 - 2010
Table 151 – Mauritius – Internet subscribers, users and penetration rate – 1999 - 2012
Table 152 – Mauritius – International internet bandwidth – 1999 - 2010
Table 153 – Mauritius – broadband subscribers – 2004 - 2011
Table 154 – Mauritius – MT ADSL versus dial-up subscribers – 2005 - 2010
Table 155 – Mauritius – My.T triple play pricing – 2008 – 2012
Table 156 – Morocco – key national statistics – 2011
Table 157 – Morocco - fixed and fixed-wireless lines in service and teledensity – 2000 - 2012
Table 158 – Morocco – Internet users and penetration rate – 2000 - 2012
Table 159 – Morocco – International Internet bandwidth – 1999 - 2010
Table 160 – Morocco – Internet subscribers by ISP and market share – September 2011
Table 161 – Morocco – Maroc Telecom Internet subscribers by access technology – 2003 - 2011
Table 162 – Morocco – Internet subscribers, ADSL vs total – 2003 - 2011
Table 163 – Morocco – distribution of ADSL access by speed – September 2011
Table 164 – Morocco – 3G mobile broadband subscribers by operator and market share – September 2011
Table 165 – Morocco – Meditel 3G+ broadband pricing – 2009 vs 2011
Table 166 – Morocco – Maroc Telecom 3G broadband pricing – 2009 vs 2010
Table 167 – Mozambique – key national statistics – 2013
Table 168 – Mozambique - estimated market penetration rates – end 2013
Table 169 – Mozambique - fixed lines in service and teledensity – 1995 - 2013
Table 170 – Mozambique - TDM financial results – 2006 - 2011
Table 171 – Mozambique - Internet users and penetration rate – 1996 - 2013
Table 172 – Mozambique - TDM ADSL pricing – 2012 vs. 2011
Table 173 – Mozambique - NetCabo cable broadband pricing – 2012 vs. 2011
Table 174 – Mozambique - TDM EV-DO broadband pricing – 2012 vs. 2010
Table 175 – Namibia – key national statistics – 2012
Table 176 - Namibia - estimated market penetration rates – end 2012
Table 177 – Namibia – fixed lines in service and teledensity – 1995 - 2012
Table 178 – Namibia – Internet users and penetration rate – 1996 - 2012
Table 179 – Nigeria – key national statistics – 2012
Table 180 – Nigeria – fixed lines in service and teledensity – 1999 - 2012
Table 181 – Nigeria – financial bids for Nitel/M-Tel, first and second round – 2010
Table 182 – Nigeria – Internet users and penetration rate – 2000 - 2012
Table 183 – Nigeria – international Internet bandwidth – 2001 - 2010
Table 184 – Nigeria – estimated market penetration rates – end 2012
Table 185 – Rwanda - fixed lines in service and teledensity – 1999 - 2012
Table 186 – Rwanda – key national statistics – 2012
Table 187 – Rwanda – Internet users and penetration rate – 1999 - 2012
Table 190 – Rwanda – Internet subscribers by ISP – September 2011
Table 191 - Senegal - estimated market penetration rates – end-2013
Table 192 - Senegal – key national statistics – 2013
Table 193 - Senegal – Fixed-lines in service and teledensity – 1999 - 2013
Table 194 - Senegal – Sonatel financial results and staff – 2004 - 2012
Table 195 - Senegal – Sonatel/Orange fixed-line ARPU – 2004 - 2012
Table 196 - Senegal – Expresso Senegal CDMA fixed-wireless access subscribers – 2009 - 2011
Table 197 – Senegal – Internet users and penetration rate – 1999 - 2013
Table 198 – Senegal – Internet subscribers – 2000 - 2012
Table 199 – Senegal – International Internet bandwidth – 2002 - 2011
Table 200 – Senegal – ADSL subscribers – 2004 - 2012
Table 201 – Senegal – Sonatel/Orange ADSL pricing – 2009; 2010; 2012
Table 202 – Sierra Leone – key national statistics – 2011
Table 203 - Sierra Leone - estimated market penetration rates – end-2011
Table 204 - Sierra Leone - fixed lines in service and teledensity – 1999 - 2012
Table 205 - Sierra Leone - Internet users and penetration rate – 1999 - 2012
Table 206 - Sierra Leone - icom.net wireless Internet pricing – November 2010
Table 207 - Somalia - estimated market penetration rates – end 2012
Table 208 – Somalia – key national statistics – 2012
Table 209 – Somalia – fixed lines in service and teledensity – 1999 - 2012
Table 210 – Somalia – Internet users and penetration rate – 1999 - 2012
Table 211 – South Africa - key national statistics – 2012
Table 212 – South Africa - fixed lines in service and teledensity – 1999 - 2012
Table 213 – South Africa - Telkom SA top five shareholders – December 2011
Table 214 – South Africa - Telkom SA’s fixed line data revenue – 2002 - 2011
Table 215 – South Africa - Telkom SA ISDN channels – 2000 - 2011
Table 216 – South Africa - Internet users and penetration rate – 1999 - 2012
Table 217 – South Africa - forecast Internet users – 2013; 2016
Table 218 – South Africa - broadband subscribers – 2004 - 2011
Table 219 – South Africa - WAPA industry survey – 2006 - 2008
Table 220 – South Africa - Telkom ADSL subscribers – 2003 - 2011
Table 221 – South Africa - Telkom SA WiMAX subscribers – 2008 - 2011
Table 222 – South Africa - Sentech MyWireless subscribers – 2005 - 2008
Table 223 – South Africa - iBurst subscribers – 2005 - 2011
Table 224 – South Africa - forecast broadband subscribers – 2013; 2016
Table 225 – South Africa - online advertising revenue – 2003; 2006 - 2010
Table 226 – South African unique monthly users of selected websites – June 2010
Table 227 - Sudan – key national statistics – 2012
Table 228 - Sudan - estimated market penetration rates – end 2012
Table 229 - Sudan – fixed lines in service and teledensity – 1994 - 2012
Table 230 - Sudan – Canar Home pricing – 2008 - 2012
Table 231 - Sudan – Internet users and penetration rate – 1997 - 2012
Table 232 - Sudan – Sudani mDSL pricing – 2012 vs. 2010
Table 233 – Swaziland – key national statistics – 2011
Table 234 - Swaziland - estimated market penetration rates – end-2011
Table 235 - Swaziland – fixed lines in service and teledensity – 1999 - 2012
Table 236 - Swaziland – SPTC financial results – 2004 - 2011
Table 237 - Swaziland – Internet users and penetration rate – 1999 - 2012
Table 238 - Swaziland – Africa Online business services pricing – 2009/10
Table 239 - Swaziland – Swazi.net Internet access pricing – 2009/10
Table 240 - Swaziland – Real Image ADSL pricing – November 2010
Table 241 - Swaziland – SPTC ADSL line rental pricing – November 2010
Table 242 – Tanzania – key national statistics – 2012
Table 243 - Tanzania – estimated market penetration rates – end 2012
Table 244 - Tanzania – fixed lines in service by operator and teledensity – 1999 - 2012
Table 245 - Tanzania – Internet users and penetration rate – 1999 - 2012
Table 246 - Tunisia – key national statistics – 2012
Table 247 - Tunisia – market penetration rates – March 2012
Table 248 - Tunisia – fixed lines in service and teledensity – 1995 - 2012
Table 249 - Tunisia – data service subscribers by technology – 2001 - 2012
Table 250 - Tunisia – international Internet bandwidth – 2001; 2006 - 2012
Table 251 - Tunisia – Internet subscribers, users and penetration rate– 1999 - 2012
Table 252 – Tunisia – PC penetration – 1999 - 2012
Table 253 – Tunisia – ADSL subscribers vs total Internet subscribers – 2002 - 2012
Table 254 - Uganda – key national statistics – 2012
Table 255 – Uganda - fixed lines in service and teledensity – 1995 - 2013
Table 256 - Uganda - fibre optic cable assets by operator – 2011
Table 257 – Uganda - Internet users and penetration rate – 1995 - 2013
Table 258 – Uganda - fixed vs. mobile Internet subscriptions – 2007 - 2011
Table 259 – Uganda - international Internet bandwidth – 1999 - 2011
Table 260 – Uganda Telecom ADSL and ISDN pricing – 2010 - 2012
Table 261 – Uganda Telecom WiMAX pricing – 2012
Table 262 – Uganda Telecom WiFi hotspot pricing – 2009 – 2012
Table 263 – MTN Uganda ADSL, WiMAX and Metro Ethernet pricing – 2012
Table 264 – Smile Telecom Uganda WiMAX and LTE pricing – 2012
Table 265 – Foris Telecom Uganda prepaid WiMAX pricing – 2012
Table 266 – Zambia – key national statistics – 2012
Table 267 – Zambia - estimated market penetration rates – end-2012
Table 268 – Zambia – fixed lines in service and teledensity – 1995 - 2012
Table 269 – Zambia – Internet users and penetration rate – 1995 - 2012
Table 270 – Zambia – Zamtel DSL pricing – 2012; 2011; 2008/09
Table 271 – Zimbabwe – key national statistics – 2012
Table 272 – Zimbabwe - estimated market penetration rates – end 2012
Table 273 – Zimbabwe – fixed lines in service and teledensity – 1995 - 2012
Table 274 – Zimbabwe – TelOne tariffs by call type – 2009 - 2012
Table 275 – Zimbabwe – Internet users and penetration rate – 2000 - 2012
Table 276 – Zimbabwe – DataOne leased-line tariffs – Feb. 2009
Table 277 – Zimbabwe – DataOne leased-line tariffs, dedicated and shared bandwidth – 2009 - 2012
Table 278 – Zimbabwe – ZOL broadband pricing – 2012 vs. 2009
Table 279 – Zimbabwe – TelOne ADSL pricing – 2012
Table 280 – Zimbabwe – ZOL WiFi hotspot pricing – 2012

Chart 1 – Algeria - fixed lines in service and penetration rate – 2002 - 2012
Chart 2 – Algeria - Internet users and penetration rate – 2002 - 2012
Chart 3 – Benin – fixed lines in service and teledensity – 2002 - 2012
Chart 4 – Benin – Internet users and penetration rate – 2002 - 2012
Chart 5 – Burundi – fixed lines in service and teledensity – 2002 - 2012
Chart 6 – Burundi – Internet users and penetration rate – 2002 - 2012
Chart 7 – Djibouti – fixed lines in service and teledensity – 2002 - 2012
Chart 8 – Djibouti – Internet users and penetration rate – 2002 - 2012
Chart 9 – Egypt – fixed lines in service and teledensity – 2000 - 2012
Chart 10 – Egypt – Internet users and penetration rate – 2002 - 2012
Chart 11 – Eritrea – fixed lines in service and teledensity – 2002 - 2012
Chart 12 – Eritrea – Internet users and penetration rate – 2002 - 2012
Chart 13 – Ghana – fixed lines in service and teledensity – 1999 - 2012
Chart 14 – Ghana – Internet users and penetration rate – 1999 - 2012
Chart 15 – Kenya – fixed lines in service and annual teledensity – 1999 - 2012
Chart 16 – Kenya – Internet users and penetration rate – 1999 - 2012
Chart 17 – Morocco – fixed lines in service and teledensity – 2002 - 2012
Chart 18 – Morocco – Internet users and penetration rate – 2002 - 2012
Chart 19 – Nigeria – fixed lines in service and teledensity – 2002 - 2012
Chart 20 – Nigeria – financial bids for Nitel/M-Tel, first and second round – 2010
Chart 21 – Nigeria – Internet users and penetration rate – 2000 - 2012
Chart 22 – Somalia – Internet users and penetration rate – 2002 - 2012
Chart 23 – South Africa – fixed lines in service and teledensity – 2002 - 2012
Chart 24 – South Africa – Internet users and penetration rate – 2002 - 2012
Chart 25 – Uganda – fixed lines in service and teledensity – 2002 - 2013
Chart 26 – Uganda – fixed/wireless access technologies market share – December 2011
Chart 27 – Uganda - Internet users and penetration rate – 2003 - 2013

Ordering: Order Online - http://www.researchandmarkets.com/reports/2368580/
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Africa - Fixed-line, Internet and Broadband Statistics (tables only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/2368580/">http://www.researchandmarkets.com/reports/2368580/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SC6IEZT3</td>
</tr>
</tbody>
</table>

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF)</td>
<td>USD 1750</td>
</tr>
<tr>
<td>Single User:</td>
<td></td>
</tr>
<tr>
<td>Hard Copy:</td>
<td>USD 1850 + USD 57 Shipping/Handling</td>
</tr>
<tr>
<td>Electronic (PDF)</td>
<td>USD 3500</td>
</tr>
<tr>
<td>1 - 10 Users:</td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF)</td>
<td>USD 5250</td>
</tr>
<tr>
<td>1 - 20 Users:</td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF)</td>
<td>USD 7000</td>
</tr>
<tr>
<td>Enterprisewide:</td>
<td></td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in **BLOCK CAPITALS**

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr [ ]</th>
<th>Mrs [ ]</th>
<th>Dr [ ]</th>
<th>Miss [ ]</th>
<th>Ms [ ]</th>
<th>Prof [ ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World