The Status of Teleaccess: Inside Africa

Teleaccess encapsulates how people communicate using fixed-line telephones, mobile telephones, and the Internet. Teleaccess underpins the development of an information-based society and its indicators help to map the contours of the 'digital divide' challenge to connect every village in the world through at least one of these information and communication technologies (ICTs) before the World Summit on the Information Society (WSIS) — by 2005.

This map shows the current status of connectivity for people in Africa, depicting fixed lines, mobile and local Internet access superimposed on population density. It shows the geographic and cultural patterns of ICT penetration and uptake in Africa, and helps to identify areas of high population density that remain unconnected. The circle in each country represents fixed lines. The size of the circle indicates, to exact size, teledensity in each country. The pie chart shows the split of fixed lines between the largest city (darker segment) and the rest of the country. The blue areas show the geographic extent of mobile GSM coverage. The small red and green dots show the locations of Internet points of presence (POPs) where Internet service providers have installed equipment for local access. The dots indicate at least one publicly accessible POP in the city or town, and do not include Internet access for private VSAT connections.

A total of 226 secondary cities and towns are now 'online' in Africa. Mobile subscribers have surpassed fixed lines (about 24m vs 20m in 2001) and mobile coverage has generally spread beyond the reach of fixed-line infrastructure. In most cases, fixed lines are concentrated in the capital city, leaving the vast majority of villages unconnected for Internet access due to the high cost of using mobile GSM phones. Internet growth is constrained by both these factors as well as the extent of the electricity grid, the availability of computer equipment, and low levels of literacy. Diversity of languages is also an important factor as there is little locally developed content — a 'chicken and egg' factor that will hopefully be addressed by the growing number of

e-government and indigenous content development initiatives. Cost is still the key issue: with low incomes per head, in many countries the bulk of users who can afford a computer, telephone, and ISP subscription have already obtained connectivity.



Sources: ESRI, GSM Association, ITU, Mike Jensen.



Sources: International Telecommunication Union (ITU), African Telecommunications Indicators, World Telecommunication Indicators Database (accessible from http://www.itu.int/ITU-D/ict/statistics). The sole responsibility for selecting extracts from these data lies with P Hamilton and is in no way attributed to the ITU. These data have been reproduced with the prior authorisation of ITU as the copyright holder. The complete original volumes of this work can be obtained from: International Telecommunication Union, Sales and Marketing Division, Place des Nations — CH-1211 GENEVA 20 (Switzerland). Tel: + 41 22 730 61 41. E-mail: sales@itu.int / http://www.itu.int/publications; GSM Association, Coversoft. Excerpted with kind permission from 'TheWorldwide GSM Coverage Map'. This map is intended to display the countries/areas throughout the world where GSM has been adopted by the members and provisional members of the GSM Association. The information contained herein is based upon data known to the GSM Association in January 2001 and February 2002, and whilst all reasonable efforts have been made to ensure that all such information is accurate, the GSM Association accepts no responsibility whatsoever for any errors or inaccuracies that may exist.





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