

# Commonwealth Telecommunications Organisation

## Country Page - Ghana

### ICT Sector Information

<b>Sector</b>	Communications
<b>Minister</b>	Dr Edward Omane Boamah
<b>Principal Institutions</b>	<a href="#">Ministry of Communications</a>
<b>Regulator</b>	<a href="#">National Communications Authority - NCA</a> Independent regulator and competition authority for the Ghana Communications Authority
<b>Other Deprtments/Agencies in the Portfolio</b>	<a href="#">National Information Technology Agency (NITA)</a> <a href="#">Ghana Investment Fund for Electronic Communications – GIFEC</a>

### Mobile Operators

Operator	Technology
MTN Ghana	GSM, UMTS
Vodafone	GSM, UMTS
Tigo	GSM, UMTS
Airtel	GSM, UMTS
Expresso Telecom	CDMA 2000 1X
Glo	GSM

### CTO Niche Areas

#### Broadband

<b>National Policy Documents</b>	<a href="#">Ghana National Telecom Policy of 2005 – NTP-05</a> <a href="#">The Ghana ICT For Accelerated Development (ICT4AD) Policy</a> <a href="#">Electronic Communications Act, 2008, Act 775</a>
<b>Agency</b>	<a href="#">National Communications Authority - NCA</a> <a href="#">Ghana Investment Fund for Electronic Communications – GIFEC</a>

<b>Projects</b>	<p>ICT Backbone Development Programme</p> <p>National Broadband Project</p> <p>Wiring Ghana Project</p> <p>Broadband Wireless Access Licensing</p> <p>Accelon Standard Trust Bank, ICT Education Support Africa Foundation: e-education package for schools – offers affordable financing for qualifying educational institutions towards broadband Internet access via VSAT anywhere in Ghana</p>
<b>Publications</b>	<p>A National Broadband Strategy for Economic Growth and Development (Workshop Version) - GhanaConnect</p> <p>Draft National Broadband Strategy</p>
<b>Other Resources</b>	<p><a href="#">GhanaConnect Website</a></p>

### **Broadband Indicators<sup>1</sup>**

<b>Indicators</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
<b>Mobile broadband subscriptions per 100 inhabitants</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	0.24			
<b>Fixed Broadband Subscriptions per 100 inhabitants</b>		0.00	0.00	0.00	0.00	0.01	0.06	0.07	0.10	0.12	0.21	0.25	0.25

### **Cybersecurity & Cybercrime**

<b>Policy</b>	<p>Electronic Transactions Act (Act 772)</p> <p>Regulation of Interception of Communication Act (RICA)</p>
<b>Agency</b>	<p>Commercial Crime Unit, Criminal Investigation Department of the Ghana Police Force</p>

<sup>1</sup> ITU statistics

<b>Related Publications</b>	<a href="#">Cyber Crime and Criminality in Ghana: Its Forms and Implications</a>
<b>Other Resources</b>	<a href="#">Cybersecurity Forum</a>

### **E-Education Skill Development and Entrepreneurship**

<b>Policy Documents</b>	<a href="#">The Ghana's Information and Communication Technology (ICT ) in Education Policy (Draft)</a> <a href="#">The Ghana ICT For Accelerated Development (ICT4AD) Policy</a>
<b>Agency</b>	Ministry of Education and Sports
<b>Indicators - Internet access in schools, Out of a 1–7 (best) scale<sup>2</sup></b>	3.2
<b>Projects</b>	<p>GeSci - expand the deployment of ICTs in schools in Ghana and to promote the effective use of these ICTs to achieve Ghana's educational and community development objectives</p> <p>Nepad E Schools</p> <p>Intel Elearning Center</p> <p>Microsoft Partners in Learning programme – supporting schools with technology and training</p>
<b>Publications</b>	ICT in Education in Ghana - Infodev

### **ICT For Disabilities**

<b>Policy Documents</b>	<a href="#">Electronic Communications Act, 2008, Act 775</a>
<b>Agency</b>	<a href="#">Ghana Investment Fund for Electronic Communications – GIFEC</a> Ministry of Employment and Social Welfare
<b>Projects</b>	GIFEC: The Disability Employment Project Ministry of Employment and Social Welfare: trains about 20,000 people with

<sup>2</sup> Out of a 1–7 (best) scale. This indicator is derived from the World Economic Forum's Executive Opinion Survey. [http://www3.weforum.org/docs/Global\\_IT\\_Report\\_2012.pdf](http://www3.weforum.org/docs/Global_IT_Report_2012.pdf)

	disabilities (PWDs) countrywide in ICT by the end of 2013
<b>Publications</b>	<a href="#">Ghana to Train Disabled in ICT</a> <a href="#">Ghana's 20,000 plus disabled people targeted for free ICT training by end of 2013</a>

### **Regulatory Environments including convergence and digital broadcasting switchover**

<b>Policy Documents</b>	<a href="#">Electronic Communications Act, 2008, Act 775</a>
<b>Agency</b>	<a href="#">National Communications Authority - NCA</a> <a href="#">Ghana Investment Fund for Electronic Communications – GIFEC</a>
<b>Projects</b>	<p>Analogue to Digital Broadcasting Migration</p> <p>Chip/SIM cards Identification</p> <p>Broadband Wireless Access Licencing</p> <p>Mobile Number Portability</p> <p>Award of Infrastructure Licences</p>
<b>Publications</b>	<a href="#">Ghana ICT Sector Performance Review 2009/2010 – Research ICT Africa</a>

### **Youth and ICTs**

<b>Policy Documents</b>	<a href="#">National Youth Policy of Ghana</a>
<b>Agency</b>	<a href="#">Ministry of Youth and Sports</a> <p>The National Youth Employment Programme (Nyep)</p> <p>The National Youth Council (Nyc)</p>
<b>Projects</b>	<a href="#">ARDYIS: Networking and knowledge sharing (2010)</a> – inform youth and consolidate their knowledge about opportunities to use ICTs in agriculture

	<p style="text-align: center;">and rural areas</p> <p style="text-align: center;">ARDYIS: Internship Opportunity: Information and Communication Technologies for Development (ICT4D) Programme – offers youths opportunities to work in ICT field for rural development activities</p> <p style="text-align: center;"><a href="#">OVF: Catch IT</a> – foster the development of ICT clubs throughout Ghana and prepare youth for ICT related jobs</p>
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### **ICT Sector Indicators**

#### **Indicators on ICT infrastructure and access - <sup>3</sup>**

<b>Indicators</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
<b>Fixed telephone subscriptions</b>	212,548	244,632	275,039	291,030	313,326	321,526	356,355	376,509	143,900	267,389	277,897	284,721	284,981
<b>Fixed telephone subscriptions per 100 inhabitants</b>	1.11	1.25	1.37	1.41	1.48	1.49	1.61	1.66	0.62	1.12	1.14	1.14	1.12
<b>Mobile cellular telephone subscriptions</b>	130,045	243,797	386,775	795,529	1,695,000	2,874,560	5,207,242	7,604,053	11,570,430	15,108,916	17,436,949	21,165,843	25,618,427
<b>Mobile cellular telephone subscriptions per 100 inhabitants</b>	0.68	1.24	1.92	3.86	8.03	13.28	23.49	33.48	49.73	63.42	71.49	84.78	100.28
<b>Estimated Internet Users per 100 inhabitants</b>	0.15	0.20	0.83	1.19	1.72	1.83	2.72	3.85	4.27	5.44	7.80	14.11	17.11

<sup>3</sup> ITU statistics

### World Economic Forum ICT Readiness Indicators<sup>4</sup>

<b>Laws relating to ICT, out of a 1–7 (best) scale</b>	3.6
<b>Mobile Network Coverage, % pop. covered</b>	84.9
<b>Broadband Internet subscriptions/100 pop</b>	0.3
<b>Mobile broadband subscriptions/100 pop</b>	47
<b>Households with personal computers, %</b>	9.1
<b>Use of virtual social networks, out of a 1–7 (best) scale</b>	5.1
<b>Impact of ICT on new services and products, out of a 1–7 (best) scale</b>	4.3
<b>Impact of ICT on new organisational models, out of a 1–7 (best) scale</b>	3.8
<b>Gov't Success in ICT Promotion, out of a 1–7 (best) scale</b>	4.6
<b>Importance of ICT to gov't vision, out of a 1–7 (best) scale</b>	4.0
<b>ICT use &amp; gov't efficiency, out of a 1–7 (best) scale</b>	3.8

<sup>4</sup> These indicators are derived from the World Economic Forum's Executive Opinion Survey. [http://www3.weforum.org/docs/WEF\\_GITR\\_Report\\_2013.pdf](http://www3.weforum.org/docs/WEF_GITR_Report_2013.pdf)

<b>Gov't Online Service Index, out of a 0-1 (best) scale</b>	0.30
<b>E-Participation Index, out of a 0-1 (best) scale</b>	0.11

#### **ICT Publications from Other International Organisations**

<b>Source Organisation</b>	<b>Title of Publication</b>
<b>InfoDev</b>	<a href="#">ICT in Education in Ghana</a>
<b>World Economic Forum</b>	<a href="#">The Global Information Technology Report 2013</a>