

# Commonwealth Telecommunications Organisation

## Country Page – Rwanda

### ICT Sector Information

<b>Sector</b>	Youth and Information and Communication Technology
<b>Minister</b>	Hon. Jean Philbert Nsengimana
<b>Principal Institutions</b>	<a href="#">Ministry of Youth and Information &amp; Communication Technology</a>
<b>Regulator</b>	<a href="#">Rwanda Utilities Regulatory Agency (RURA)</a>
<b>Partner Deprtments/Agencies</b>	<a href="#">Rwanda Development Board</a>

### Mobile Operators

Operator	Technology
MTN	GSM
Tigo	GSM, 3G
Bharti Airtel	GSM, 3G
Rwandatel	GSM, CdmaOne

### CTO Niche Areas

#### Broadband

<b>National Policy Documents</b>	<a href="#">National ICT Strategy and Plan NICI – 2010</a> <a href="#">National ICT Strategy and Plan NICI – 2015</a>
<b>Agency</b>	<a href="#">Rwanda Development Board</a> <a href="#">Rwanda Utilities Regulatory Agency (RURA)</a>
<b>Projects</b>	REGIONAL CONNECTIVITY INFRASTRUCTURE PROGRAM (RCIP) the National fiber optic backbone; wireless broadband (WIBRO) Rwanda Education and Research Network (RwEdNet) Access Network
<b>Publications</b>	<a href="#">Broadband and the development of Rwanda</a>

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

Indicators	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
<b>Mobile broadband subscriptions per 100 inhabitants</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15			
<b>Fixed Broadband Subscriptions per 100 inhabitants</b>		0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.01	0.02	0.02	0.03	0.02

### Cybersecurity & Cybercrime

<b>Policy</b>	<p>Enactment of a law governing electronic messages, electronic signatures, electronic transactions; data protection; cyber security and ICT usage in government administrative procedures, Law N° 18/2010 of 12/05/2010</p> <p style="text-align: center;">Telecommunications Law</p> <p style="text-align: center;">Interception law</p> <p style="text-align: center;">E-Transaction law</p> <p style="text-align: center;">ICT Bill</p>
<b>Agency</b>	<p>Rwanda Development Board</p> <p>Ministry of Youth and ICT</p> <p>RURA</p>
<b>Projects</b>	<p>Computer Emergency and Security Incident Response Team (RwCERT/CSIRT)</p> <p style="text-align: center;">Cyber Security Capacity Building</p> <p style="text-align: center;">Establish National Cyber Security Research Centre (NSRC)</p> <p style="text-align: center;">Establish Public Key Infrastructure (PKI)</p> <p style="text-align: center;">Establish an Information Infrastructure Security System</p> <p>Survey on Cybersecurity readiness for the government institutions</p>

<sup>1</sup> ITU statistics

<b>Related Publications</b>	The issue of cyber security and the level of preparedness in Rwanda Presentation by Eng, Justin RUGONDIHENE, Director, ICT Applications, Cybersecurity and postal service regulation
<b>Other Resources</b>	<a href="#">Cybersecurity Forum</a>

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

<b>Policy Documents</b>	<a href="#">National ICT Strategy and Plan NICI – 2010</a> <a href="#">National ICT Strategy and Plan NICI – 2015</a>
<b>Agency</b>	Ministry of Education
<b>Indicators - Internet access in schools, Out of a 1–7 (best) scale</b>	4.3
<b>Projects</b>	<p>Establish a national library network</p> <p>One Laptop per Child Project</p> <p>Develop a national programme to speed up the deployment and use of ICTs in higher education institutions (A specific component is the establishment of a Rwandan Academic Research Network that links all institutions and provides a gateway to the internet.)</p> <p>Develop a national electronic distance education and training programme that supplements and complements campus-based education at all levels, facilitates lifelong learning, and encourages in-service training in both the public and private sectors</p> <p>Rollout of computers to secondary schools</p>
<b>Publications</b>	<a href="#">ICT in Education in Rwanda – Infodev</a>

### **ICT For Disabilities**

<b>Policy Documents</b>	National Disability Action Plan Law to Protect the Rights of Persons with Disabilities (2007)
<b>Agency</b>	Rwanda National Decade Steering Committee (RNDSC) RURA

	Convention on the Rights of Persons with Disabilities (CRPD)
<b>Projects</b>	<a href="#">The National Disability Programme</a>

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

<b>Policy Documents</b>	LAW °39/2001 OF 13/09/2001 Establishing an agency for the regulation of certain public utilities  <a href="#">LAW ° 44/2001 OF 30/11/2001 Governing Telecommunications</a> <a href="#">National ICT Strategy and Plan NICI – 2010</a> <a href="#">National ICT Strategy and Plan NICI – 2015</a>
<b>Agency</b>	<a href="#">Rwanda Utilities Regulatory Agency (RURA)</a>
<b>Projects</b>	Rwanda Internet Exchange Point E Rwanda Project Digital Switchover
<b>Publications</b>	<a href="#">Managing the change from Analogue to Terrestrial Digital Broadcast in Rwanda – Research ICT Africa</a>

### **Youth and ICTs**

<b>Policy Documents</b>	<a href="#">National ICT Strategy and Plan NICI – 2010</a> <a href="#">National ICT Strategy and Plan NICI – 2015</a>
<b>Agency</b>	Ministry of Youth and ICT Ministry of Education
<b>Projects</b>	Computers in Schools – “Operation ICT Knowledge for the Youth” Program National Youth Training (YTS) Scheme

## ICT Sector Indicators

### Indicators on ICT infrastructure and access - <sup>2</sup>

Indicators	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
<b>Fixed telephone subscriptions</b>	17,568	21,500	25,105	25,565	22,972	23,601	23,362	23,123	16,770	33,451	39,664	38,901	44,363
<b>Fixed telephone subscriptions per 100 inhabitants</b>	0.22	0.25	0.29	0.29	0.25	0.26	0.25	0.24	0.17	0.32	0.37	0.36	0.39
<b>Mobile cellular telephone subscriptions</b>	39,000	65,000	82,391	130,720	137,271	222,978	314,201	635,137	1,322,637	2,429,252	3,548,761	4,446,194	5,690,751
<b>Mobile cellular telephone subscriptions per 100 inhabitants</b>	0.48	0.77	0.95	1.48	1.52	2.42	3.33	6.54	13.22	23.56	33.40	40.63	50.49
<b>Estimated Internet Users per 100 inhabitants</b>	0.06	0.24	0.29	0.36	0.43	0.56		2.12	4.50	7.70	8.00	7.00	8.02

### World Economic Forum ICT Readiness Indicators<sup>3</sup>

<b>Laws relating to ICT, out of a 1–7 (best) scale</b>	4.9
<b>Mobile Network Coverage, % pop. covered</b>	97.3

<sup>2</sup> ITU statistics

<sup>3</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>Broadband Internet subscriptions/100 pop</b>	0.0
<b>Mobile broadband subscriptions/100 pop</b>	1.0
<b>Households with personal computers, %</b>	1.3
<b>Use of virtual social networks, out of a 1–7 (best) scale</b>	4.4
<b>Impact of ICT on new services and products, out of a 1–7 (best) scale</b>	n/a
<b>Impact of ICT on new organisational models, out of a 1–7 (best) scale</b>	4.3
<b>Gov't Success in ICT Promotion, out of a 1–7 (best) scale,</b>	0.34
<b>Importance of ICT to gov't vision, out of a 1–7 (best) scale</b>	5.4
<b>ICT use &amp; gov't efficiency, out of a 1–7 (best) scale</b>	5.4
<b>Gov't Online Service Index, out of a 0-1 (best) scale</b>	0.34
<b>E-Participation Index, out of a 0-1 (best) scale</b>	0.03

#### ICT Publications from Other International Organisations

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