

Commonwealth Telecommunications Organisation

Country Page – Rwanda

ICT Sector Information

Sector	Youth and Information and Communication Technology
Minister	Hon. Jean Philbert Nsengimana
Principal Institutions	Ministry of Youth and Information & Communication Technology
Regulator	Rwanda Utilities Regulatory Agency (RURA)
Partner Deprtments/Agencies	Rwanda Development Board

Mobile Operators

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

CTO Niche Areas

Broadband

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

Broadband Indicators¹

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

Policy	<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>Telecommunications Law</p> <p>Interception law</p> <p>E-Transaction law</p> <p>ICT Bill</p>
Agency	<p>Rwanda Development Board</p> <p>Ministry of Youth and ICT</p> <p>RURA</p>
Projects	<p>Computer Emergency and Security Incident Response Team (RwCERT/CSIRT)</p> <p>Cyber Security Capacity Building</p> <p>Establish National Cyber Security Research Centre (NSRC)</p> <p>Establish Public Key Infrastructure (PKI)</p> <p>Establish an Information Infrastructure Security System</p> <p>Survey on Cybersecurity readiness for the government institutions</p>

¹ ITU statistics

Related Publications	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
Other Resources	Cybersecurity Forum

E-Education Skill Development and Entrepreneurship

Policy Documents	National ICT Strategy and Plan NICI – 2010 National ICT Strategy and Plan NICI – 2015
Agency	Ministry of Education
Indicators - Internet access in schools, Out of a 1–7 (best) scale	4.3
Projects	<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>
Publications	ICT in Education in Rwanda – Infodev

ICT For Disabilities

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

	Convention on the Rights of Persons with Disabilities (CRPD)
Projects	The National Disability Programme

Regulatory Environments including convergence and digital broadcasting switchover

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

Youth and ICTs

Policy Documents	National ICT Strategy and Plan NICI – 2010 National ICT Strategy and Plan NICI – 2015
Agency	Ministry of Youth and ICT Ministry of Education
Projects	Computers in Schools – “Operation ICT Knowledge for the Youth” Program National Youth Training (YTS) Scheme

ICT Sector Indicators

Indicators on ICT infrastructure and access - ²

Indicators	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Fixed telephone subscriptions	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
Fixed telephone subscriptions per 100 inhabitants	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
Mobile cellular telephone subscriptions	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
Mobile cellular telephone subscriptions per 100 inhabitants	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
Estimated Internet Users per 100 inhabitants	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 Indicators³

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

² ITU statistics

³ These indicators are derived from the World Economic Forum's Executive Opinion Survey. http://www3.weforum.org/docs/WEF_GITR_Report_2013.pdf

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

ICT Publications from Other International Organisations

Source Organisation	Title of Publication
InfoDev	ICT in Education in Rwanda – Infodev
World Economic Forum	The Global Information Technology Report 2013