

Commonwealth Telecommunications Organisation

Country Page – South Africa

ICT Sector Information

Sector	Communications
Minister	Mr Yunus Carrim
Principal Institutions	Department of Communications -
Regulator	Independent Communications Authority of South Africa (ICASA)
Other Departments/Agencies in the Portfolio	The Universal Service and Access Agency of South Africa (USAASA) SABC South African Post Office Sentech .zadna

Mobile Operators

Operator	Technology
Vodacom	GSM, GPRS, EDGE, UMTS, HSDPA, HSUPA, LTE, WiMAX, HSPA+
MTN	GSM, GPRS, EDGE, UMTS, HSDPA, HSUPA, HSPA+
Cell C	GSM, GPRS, EDGE, HSPA+ (Planned)
Telkom	HSDPA, HSUPA
Virgin Mobile (MVNO, uses Cell C)	GSM, GPRS, EDGE, HSPA+ (Planned)
8ta (rMVNO, using MTN)	GSM, GPRS, EDG, UMTS, HSDPA, HSUPA
Red Bull Mobile (rMVNO, using Cell C)	Nil

CTO Niche Areas

Broadband

National Policy Documents	<p style="text-align: center;">Broadband Policy For South Africa - Electronic Communications Act, No 36 of 2005</p> <p>Amendments in 2006 to the Electronic Communications Act – introduces a horizontal licensing framework for broadcasting service and electronic communications network service</p> <p>2001 Amendment act – allow the licensing of only one fixed-line operator</p> <p>2000 Independent Communications Authority of South Africa (ICASA) Act merged SATRA and Independent Broadcasting Authority (IBA)</p>
Agency	<p style="text-align: center;">Broadband Inter-Governmental Implementation Committee</p> <p style="text-align: center;">Independent Communications Authority of South Africa (ICASA)</p> <p style="text-align: center;">The Universal Service and Access Agency of South Africa (USAASA)</p>
Projects	<p style="text-align: center;">Wireless Broadband - roll out a National Wireless Broadband Network (NWBN) to provide a multimedia platform within the Consolidated National Broadband Network (CNBN)</p> <p style="text-align: center;">NEPAD ICT Broadband Infrastructure Network</p> <p style="text-align: center;">MTN's Rural Mobile Broadband Project</p>
Publications	<p style="text-align: center;">Analysis of the Broadband Policy of South Africa</p>

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	0.30	1.14	2.61	4.98	10.52			

¹ ITU statistics

Fixed Broadband Subscriptions per 100 inhabitants				0.01	0.04	0.13	0.35	0.69	0.77	0.86	0.97	1.48	1.80	2.18
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Cybersecurity & Cybercrime

Policy	<p>the National Cyber Security Policy Framework for South Africa.</p> <p>Criminal Procedures Act 51 of 1997</p> <p>National Convention Arms Control Act (Act 41 of 2002) ;</p> <p>Electronic Communications and Transactions Act (Act 25 of 2002);</p> <p>Electronic Communications Security (Pty) Ltd Act (Act 68 of 2002)</p> <p>Regulation of Interception of Communications and Provision of Communications Related Information Act (Act 70 of 2002) : Interception is for purpose of law enforcement and gathering of intelligence</p> <p>State Information Technology Agency Act (Act 88 of 1998):</p> <p>Conventional Arms Control Regulations (R7969 of 2004)</p> <p>Cryptographic regulations (R 8418, of 2006)</p>
Agency	<p>Ministry of Communications</p> <p>National Cybersecurity Advisory Council (NCAC) and CSIRT structure (to be created as recommended in the National Cybersecurity Framework)</p> <p>Cyber Inspectorate (yet to be created)</p>
Related Publications	<p><u>CYBER SECURITY POLICY AND LEGAL FRAMEWORK FROM A SOUTH AFRICAN PERSPECTIVE</u></p>
Other Resources	<p><u>Cybersecurity Forum</u></p>

E-Education Skill Development and Entrepreneurship

Policy Documents	South African education ICT policy document
Agency	Department of Education, South Africa
Indicators - Internet access in schools, Out of a 1–7 (best) scale	3.7
Projects	<p>Department of Communications and Department of Education – a network for education (EduNet) which connects all schools to each other and to the internet through multi-media laboratories</p> <p>SchoolNet SA – provides online, mentor-based in-service training to teachers to introduce ICT into the curriculum and management</p> <p>INTEL – ‘Teach to the Future’ Teacher Development Programme provides teacher training in ICT integration into and learning</p>
Publications	<p>Draft White Paper on e-Education: Transforming Learning and Teaching through ICT</p> <p>ICT in Education in South Africa (Infodev)</p> <p>The role of ICTs in higher education in South Africa: One strategy for addressing teaching and learning challenges - <i>International Journal of Education and Development using Information and Communication Technology (IJEDICT)</i>, 2007, Vol. 3, Issue 4, pp. 131-142.</p>

ICT For Disabilities

Policy Documents	South African Constitution Disability Strategy
Agency	<p>Department of Women, Children and People with Disabilities</p> <p>ICAASA</p> <p>The South African Federal Council on Disability (SAFCD)</p> <p>Meraka Institute</p>

Projects	National Accessibility Programme (NAP)
Publications	Accessibility to ICT Services by Persons with Disabilities – South African Perspective ICT and Accessibility for Persons with Disabilities in South Africa

Regulatory Environments including convergence and digital broadcasting switchover

Policy Documents	<p>Broadcasting Digital Migration Policy</p> <p>Electronic Communications Act, No 36 of 2005</p> <p>Amendments in 2006 to the Electronic Communications Act – introduces a horizontal licensing framework for broadcasting service and electronic communications network service</p> <p>2001 Amendment act – allow the licensing of only one fixed-line operator</p> <p>2000 Independent Communications Authority of South Africa (ICASA) Act merged SATRA and Independent Broadcasting Authority (IBA)</p>
Agency	<p>ICAASA</p> <p>Sentech - organisation responsible for rolling out the digital broadcasting network around the country</p> <p>South Africa Broadcasting Corporation (SABC)</p>
Projects	<p>Digital Switchover Project</p> <p>SABC: being assigned the spectrum freed up through the switchover ranging from 174-230 MHz and 470-862 MHz</p>
Publications	South African ICT Sector Performance Review 2009/2010

Youth and ICTs

Projects	NEPAD e-Africa Youth Programme – provides an opportunity to fulfill its dream of making sure the young explore the many ICT applications and uses
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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	4,961,743	4,924,458	4,844,000	4,821,000	4,850,000	4,729,000	4,642,000	4,532,000	4,425,000	4,319,800	4,225,000	4,127,000	4,031,000
Fixed telephone subscriptions per 100 inhabitants	11.09	10.85	10.53	10.34	10.27	9.89	9.60	9.28	8.97	8.68	8.43	8.18	7.94
Mobile cellular telephone subscriptions	8,339,000	10,787,000	13,702,000	16,860,000	20,839,000	33,959,958	39,662,000	42,300,000	45,000,000	46,436,000	50,372,000	64,000,000	68,394,000
Mobile cellular telephone subscriptions per 100 inhabitants	18.63	23.77	29.78	36.16	44.13	71.06	82.06	86.60	91.24	93.34	100.48	126.83	134.80
Estimated Internet Users per 100 inhabitants	5.35	6.35	6.71	7.01	8.43	7.49	7.61	8.07	8.43	10.00	24.00	33.97	41.00

World Economic Forum ICT Readiness Indicators³

Laws relating to ICT, out of a 1–7 (best) scale	5.0
Mobile Network Coverage, % pop. covered	99.8
Broadband Internet subscriptions/100 pop	1.8
Mobile broadband subscriptions/100	19.8

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

pop	
Households with personal computers, %	18.3
Use of virtual social networks, out of a 1–7 (best) scale	5.1
Impact of ICT on new services and products, out of a 1–7 (best) scale	4.8
Impact of ICT on new organisational models, out of a 1–7 (best) scale	4.4
Gov't Success in ICT Promotion, out of a 1–7 (best) scale	3.9
Importance of ICT to gov't vision, out of a 1–7 (best) scale	3.4
ICT use & gov't efficiency, out of a 1–7 (best) scale	3.8
Gov't Online Service Index, out of a 0-1 (best) scale	0.46
E-Participation Index, out of a 0-1 (best) scale	0.16

Related ICT Publications from International Organisations

Source Organisation	Title of Publication
InfoDev	ICT in Education in South Africa - infoDev
World Economic Forum	The Global Information Technology Report 2013