

Main telephone lines

World

	Main telephone lines			Main telephone lines per 100 inhabitants		
	(k)		CAGR (%)			CAGR (%)
	1995	2002	1995-02	1995	2002	1995-02
1 Algeria	1'176.3	1'908.0	7.2	4.19	6.10	5.5
2 Angola	52.7	85.0	7.1	0.49	0.61	3.2
3 Benin	28.2	59.3 [01]	13.2	0.52	0.92 [01]	10.1
4 Botswana	59.7	142.6 [01]	15.6	4.09	8.48 [01]	12.9
5 Burkina Faso	30.0	64.3	11.5	0.30	0.54	8.8
6 Burundi	17.3	22.1	3.6	0.28	0.32	1.5
7 Cameroon	65.6	101.4 [01]	7.5	0.49	0.66 [01]	5.0
8 Cape Verde	21.5	70.2	18.4	5.57	15.99	16.3
9 Central African Rep.	8.4	8.9 [01]	1.0	0.25	0.24 [01]	-1.1
10 Chad	5.3	11.8	12.1	0.08	0.15	9.1
11 Comoros	4.4	10.3	12.9	0.72	1.35	9.4
12 Congo	21.4	22.0	0.4	0.81	0.67	-2.6
13 Côte d'Ivoire	115.8	336.1	16.4	0.86	2.04	13.2
14 D.R. Congo	36.0	20.0 [01]	-9.3	0.08	0.04 [01]	-11.5
15 Djibouti	7.6	10.1	4.3	1.31	1.54	2.4
16 Egypt	2'716.2	7'430.0	15.5	4.67	11.32	13.5
17 Equatorial Guinea	2.5	8.8	19.6	0.63	1.80	16.3
18 Eritrea	17.5	35.9	10.8	0.49	0.90	9.1
19 Ethiopia	142.5	353.8	13.9	0.25	0.53	11.2
20 Gabon	32.0	32.1	-	2.98	2.47	-2.6
21 Gambia	19.2	38.4	10.4	1.75	2.80	6.9
22 Ghana	63.1	274.3	23.4	0.37	1.27	19.2
23 Guinea	10.9	26.0	13.3	0.16	0.34	11.7
24 Guinea-Bissau	7.4	11.2	6.2	0.69	0.89	3.8
25 Kenya	256.4	328.1	3.6	1.00	1.03	0.3
26 Lesotho	17.8	34.0	9.7	0.88	1.57	8.7
27 Libya	318.0	660.0 [01]	12.9	5.88	11.83 [01]	12.4
28 Madagascar	37.1	59.5	7.0	0.29	0.37	3.8
29 Malawi	34.3	73.1	11.4	0.37	0.70	9.7
30 Mali	17.2	49.7	16.4	0.19	0.47	14.0
31 Mauritania	9.2	31.5	19.1	0.41	1.18	16.1
32 Mauritius	148.2	327.2	12.0	13.21	27.03	10.8
33 Mayotte	5.3	10.0 [01]	11.3	4.66	6.98 [01]	7.0
34 Morocco	1'128.0	1'127.4	-	4.24	3.80	-1.5
35 Mozambique	59.8	83.7	4.9	0.40	0.46	2.1
36 Namibia	78.5	121.4	6.4	5.02	6.48	3.7
37 Niger	13.7	21.7 [01]	7.9	0.15	0.19 [01]	4.0
38 Nigeria	405.1	702.0	8.2	0.39	0.58	5.9
39 Rwanda	6.9	21.5 [01]	20.9	0.13	0.27 [01]	12.5
40 S. Tomé & Príncipe	2.5	6.2	14.0	1.97	4.13	11.2
41 Senegal	82.0	224.6	15.5	0.98	2.29	12.9
42 Seychelles	13.1	21.4 [01]	8.5	17.41	26.11 [01]	7.0
43 Sierra Leone	16.6	22.7 [01]	5.4	0.37	0.46 [01]	3.6
44 South Africa	4'002.2	4'844.0	2.8	10.14	10.66	0.7
45 Sudan	75.0	671.8	36.8	0.28	2.06	32.7
46 Swaziland	21.1	35.1	7.5	2.32	3.40	5.6
47 Tanzania	90.3	161.6	8.7	0.32	0.47	5.6
48 Togo	21.7	51.2	13.0	0.52	1.02	10.0
49 Tunisia	521.7	1'148.0	11.9	5.82	11.70	10.5
50 Uganda	39.0	55.0	5.0	0.20	0.22	1.4
51 Zambia	76.8	87.7	1.9	0.86	0.82	-0.7
52 Zimbabwe	152.5	287.9	9.5	1.42	2.47	8.3
Africa	12'311.4	22'350.7	8.9	1.80	2.78	6.4
53 Antigua & Barbuda	25.9	37.3 [01]	6.3	38.84	48.13 [01]	3.6
54 Argentina	5'622.5	8'009.4	5.2	16.53	21.88	4.1
55 Aruba	27.3	37.1 [01]	5.3	33.50	35.03 [01]	0.7
56 Bahamas	83.7	126.6	6.1	30.00	40.56	4.4
57 Barbados	90.1	129.0 [01]	6.2	34.09	48.06 [01]	5.9
58 Belize	28.9	31.3	1.1	13.75	12.37	-1.5
59 Bermuda	46.4	56.0	2.7	73.65	86.15	2.3
60 Bolivia	246.9	563.9	12.5	3.33	6.76	10.6
61 Brazil	13'263.0	38'810.0	16.6	8.51	22.32	14.8
62 Canada	17'567.0	19'962.1	1.8	61.57	63.55	0.5
63 Chile	1'818.0	3'467.0	9.7	12.74	23.04	8.8
64 Colombia	3'872.8	7'766.0	10.5	10.05	17.94	8.6
65 Costa Rica	478.9	1'038.0	11.7	14.38	25.05	8.3
66 Cuba	353.2	574.4 [01]	8.4	3.21	5.11 [01]	8.1
67 Dominica	17.8	25.4	5.2	24.13	32.58	4.4
68 Dominican Rep.	582.6	909.0	6.6	7.48	10.44	4.9

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	Main telephone lines			Main telephone lines per 100 inhabitants		
	(k)		CAGR (%)			CAGR (%)
	1995	2002	1995-02	1995	2002	1995-02
69 Ecuador	697.9	1'426.2	10.7	6.09	11.02	8.8
70 El Salvador	284.8	667.7	12.9	5.03	10.34	10.8
71 Grenada	23.2	33.5	5.4	26.02	31.65	2.8
72 Guadeloupe	165.3	210.0 [01]	4.1	38.98	45.65 [01]	2.7
73 Guatemala	286.4	846.0	16.7	2.87	7.05	13.7
74 Guyana	44.6	80.4	8.8	5.37	9.15	7.9
75 Haiti	60.0	130.0	11.7	0.84	1.57	9.4
76 Honduras	160.8	322.5	10.5	2.70	4.80	8.6
77 Jamaica	290.3	450.0	6.5	11.76	17.19	5.6
78 Martinique	160.9	172.0 [01]	1.1	41.68	43.00 [01]	0.5
79 Mexico	8'801.0	14'941.6	7.9	9.39	14.67	6.6
80 Nicaragua	96.6	171.6	8.6	2.22	3.20	5.4
81 Panama	303.9	366.7	2.7	11.56	12.20	0.8
82 Paraguay	166.9	273.2	7.3	3.46	4.73	4.6
83 Peru	1'109.2	1'766.1	6.9	4.71	6.60	4.9
84 Puerto Rico	1'195.9	1'329.5 [01]	1.8	32.65	34.64 [01]	1.0
85 St. Kitts and Nevis	14.4	23.5	7.2	33.83	50.00	5.7
86 St. Vincent	18.2	27.3	5.9	16.46	23.35	5.1
87 Suriname	54.1	77.4 [01]	6.1	13.21	17.58 [01]	4.9
88 Trinidad & Tobago	209.3	325.1	6.5	16.78	24.98	5.9
89 United States	159'735.2	190'000.0	2.5	60.38	65.89	1.3
90 Uruguay	622.0	946.5	6.2	19.50	27.96	5.3
91 Venezuela	2'463.2	2'841.8	2.1	11.38	11.27	-0.1
92 Virgin Islands (US)	58.3	69.4 [01]	2.9	54.86	63.49 [01]	2.5
Americas	221'147.7	299'040.6	4.4	28.71	35.17	2.9
93 Armenia	582.8	542.8	-1.0	15.45	14.28	-1.1
94 Azerbaijan	639.5	989.2	6.4	8.49	12.15	5.3
95 Bahrain	140.8	175.4	3.2	25.11	26.31	0.7
96 Bangladesh	286.6	682.0	13.2	0.24	0.51	11.5
97 Bhutan	5.2	19.6	20.7	0.90	2.84	17.8
98 Brunei Darussalam	68.1	88.4 [01]	4.4	23.99	25.86 [01]	1.3
99 Cambodia	8.5	35.4	22.6	0.08	0.26	17.5
100 China	40'705.7	214'420.0	26.8	3.30	16.69	26.0
101 Georgia	554.3	648.5	2.3	10.23	13.14	3.6
102 Hong Kong, China	3'277.9	3'842.9	2.3	53.25	56.74	0.9
103 India	11'978.0	41'215.3	19.3	1.29	3.96	17.3
104 Indonesia	3'290.9	7'750.0	13.0	1.69	3.65	11.6
105 Iran (I.R.)	5'090.4	12'200.2	13.3	8.60	18.66	11.7
106 Israel	2'342.6	3'100.0	4.1	41.69	46.72	1.6
107 Japan	62'292.0	71'149.0	1.9	49.61	55.83	1.7
108 Jordan	317.0	674.5	11.4	7.39	12.66	8.0
109 Kazakhstan	1'962.9	2'081.9	0.8	11.87	13.04	1.4
110 Korea (Rep.)	18'600.2	23'257.0	3.2	41.75	48.86	2.3
111 Kuwait	382.3	481.9	3.4	21.22	20.38	-0.6
112 Kyrgyzstan	357.0	394.8	1.4	7.92	7.75	-0.3
113 Lao P.D.R.	16.6	61.9	20.7	0.36	1.12	17.6
114 Lebanon	448.8	678.8	6.1	14.91	19.88	4.2
115 Macao, China	153.3	176.1	2.0	37.45	40.23	1.0
116 Malaysia	3'332.4	4'669.9	4.9	16.57	19.04	2.0
117 Maldives	13.9	28.7	10.9	5.67	10.20	8.8
118 Mongolia	77.7	128.0	7.4	3.50	5.27	6.0
119 Myanmar	157.8	295.2 [01]	11.0	0.36	0.61 [01]	9.3
120 Nepal	83.7	327.7	21.5	0.41	1.41	19.3
121 Oman	169.9	227.6	4.3	7.87	8.39	0.9
122 Pakistan	2'127.3	3'655.0	8.0	1.67	2.50	6.0
123 Palestine	80.0	298.5	20.7	3.45	8.64	14.0
124 Philippines	1'409.6	3'310.9	13.0	2.05	4.17	10.6
125 Qatar	122.7	176.5	5.3	22.27	28.94	3.8
126 Saudi Arabia	1'719.4	3'317.5	9.8	9.42	14.39	6.2
127 Singapore	1'428.6	1'927.2	4.4	40.52	46.29	1.9
128 Sri Lanka	205.9	883.1	23.1	1.18	4.66	21.7
129 Syria	958.5	2'099.3	11.9	6.77	12.32	8.9
130 Taiwan, China	9'174.8	13'099.4	5.2	42.96	58.33	4.5
131 Tajikistan	262.7	237.6	-1.4	4.50	3.73	-2.7
132 Thailand	3'482.0	6'499.8	9.3	6.06	10.50	8.2
133 Turkmenistan	320.3	387.6 [01]	3.2	7.14	8.02 [01]	1.9
134 United Arab Emirates	672.3	1'093.7	7.2	28.77	34.18	2.5
135 Uzbekistan	1'544.2	1'670.0	1.1	6.81	6.60	-0.4
136 Viet Nam	775.0	3'929.1	26.1	1.05	4.84	24.4

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	Main telephone lines			Main telephone lines per 100 inhabitants		
	(k)		CAGR (%)			CAGR (%)
	1995	2002	1995-02	1995	2002	1995-02
137 Yemen	186.7	542.2	16.5	1.21	2.78	12.6
Asia	181'807.2	433'470.4	13.2	5.47	11.99	11.9
138 Albania	42.1	220.0	26.6	1.17	5.46	24.6
139 Andorra	29.8	35.0 [01]	2.7	43.82	43.83 [01]	-
140 Austria	3'796.9	3'988.0	0.7	47.18	48.88	0.5
141 Belarus	1'968.4	2'967.2	6.0	19.34	29.94	6.4
142 Belgium	4'682.1	5'132.4	1.3	46.26	49.61	1.0
143 Bosnia	237.8	490.2	10.9	5.99	11.96	10.4
144 Bulgaria	2'562.9	2'922.0	1.9	30.47	37.46	3.0
145 Croatia	1'287.1	1'879.0	5.6	28.28	38.79	4.6
146 Cyprus	347.3	427.4	3.0	55.22	61.06	1.4
147 Czech Republic	2'444.2	3'675.5	6.0	23.65	36.23	6.3
148 Denmark	3'193.4	3'739.2	2.3	61.08	69.58	1.9
149 Estonia	411.7	475.0	2.1	27.74	35.06	3.4
150 Finland	2'810.0	2'850.0	0.2	54.28	54.73	0.1
151 France	32'400.0	33'994.4	0.7	56.01	57.00	0.3
152 Germany	42'000.0	53'720.0	3.6	51.33	65.09	3.4
153 Greece	5'162.8	5'607.7 [01]	1.4	49.40	52.92 [01]	1.2
154 Greenland	19.6	25.3	3.7	35.08	44.69	3.5
155 Guernsey	42.0	55.0 [01]	4.6	68.86	97.74 [01]	6.0
156 Hungary	2'157.2	3'666.4	7.9	21.05	36.12	8.0
157 Iceland	148.7	180.7	2.8	55.52	62.74	1.8
158 Ireland	1'310.0	1'975.0	6.0	36.33	50.24	4.7
159 Italy	24'845.0	27'452.0	1.4	43.33	48.62	1.7
160 Jersey	59.3	73.9 [01]	3.7	68.88	84.79 [01]	3.5
161 Latvia	704.5	701.2	-0.1	27.85	30.11	1.1
162 Lithuania	941.0	935.9	-0.1	25.35	27.05	0.9
163 Luxembourg	233.9	346.8 [01]	6.8	57.10	77.99 [01]	5.3
164 Malta	170.7	207.3	2.8	45.88	52.34	1.9
165 Moldova	566.5	639.2 [01]	2.0	13.02	14.56 [01]	1.9
166 Netherlands	8'124.0	10'000.0	3.0	52.43	61.75	2.4
167 Norway	2'476.5	3'325.0	4.3	56.67	72.98	3.7
168 Poland	5'728.5	11'400.0 [01]	12.2	14.84	29.51 [01]	12.1
169 Portugal	3'642.9	4'361.0	2.6	36.72	41.90	1.9
170 Romania	2'968.0	4'116.0 [01]	5.6	13.09	18.38 [01]	5.8
171 Russia	25'018.9	35'500.0	5.1	16.91	24.22	5.3
172 Serbia and Montenegro	2'017.1	2'493.0	3.1	19.15	23.26	2.8
173 Slovak Republic	1'118.5	1'402.7	3.3	20.84	26.08	3.3
174 Slovenia	614.8	811.4	4.0	30.93	40.65	4.0
175 Spain	15'095.4	18'705.6	3.1	38.50	45.98	2.6
176 Sweden	6'013.0	6'579.0	1.3	68.04	73.57	1.1
177 Switzerland	4'480.0	5'335.0	2.5	63.66	73.27	2.0
178 TFYR Macedonia	351.0	538.5 [01]	7.4	17.85	26.35 [01]	6.7
179 Turkey	13'215.7	18'914.9	5.3	21.44	28.12	3.9
180 Ukraine	8'311.0	10'669.6 [01]	4.3	16.09	21.21 [01]	4.7
181 United Kingdom	29'411.4	35'145.0	2.6	50.18	59.48	2.5
Europe	263'161.5	327'678.4	3.2	33.28	40.99	3.0
182 Australia	8'900.0	10'590.0	2.5	49.27	53.86	1.3
183 Fiji	64.8	97.5	6.0	8.43	11.69	4.8
184 French Polynesia	48.7	52.5	1.1	22.32	21.88	-0.3
185 Guam	69.2	80.0 [01]	2.4	48.19	50.89 [01]	0.9
186 Kiribati	2.0	3.6 [01]	10.2	2.61	4.21 [01]	8.3
187 Marshall Islands	3.2	4.4	4.7	6.64	7.74	2.2
188 Micronesia	7.9	10.1 [01]	4.2	7.37	8.67 [01]	2.7
189 New Caledonia	43.7	50.7 [01]	2.5	22.80	23.12 [01]	0.2
190 New Zealand	1'719.0	1'765.0	0.4	47.34	44.81	-0.8
191 Northern Marianas	15.5	21.0 [00]	6.3	32.21	39.59 [00]	4.2
192 Papua New Guinea	43.6	62.0 [01]	6.0	0.99	1.17 [01]	2.8
193 Samoa	7.8	10.3	4.0	4.64	5.70	3.0
194 Solomon Islands	6.5	6.6	0.2	1.78	1.49	-2.5
195 Tonga	6.6	11.2	7.8	6.80	11.31	7.5
196 Vanuatu	4.2	6.6	6.6	2.49	3.22	3.8
Oceania	10'942.7	12'771.5	2.2	38.41	40.43	0.7
World Geographic from WTDR	689'370.4	1'095'311.7	6.8	12.32	17.95	5.5

Note: For data comparability and coverage, see the technical notes.
 Figures in italics are estimates or refer to years other than those specified.

Source: ITU.

WORLD TELECOMMUNICATION INDICATORS



INTERNATIONAL TELECOMMUNICATION UNION

INTRODUCTION

Data are presented for 196 economies with populations greater than 40'000 and where sufficient data are available. Summary data for economies not listed in main tables are shown in Box 1.

Economies are grouped by 2000 United States dollar (US\$) income levels: *low*, Gross National Income (GNI) per capita of US\$ 755 or less; *lower middle*, US\$ 756–2'995; *upper middle*, US\$ 2'996–9'265; and *high*, US\$ 9'266 or more. The income level classification is based on World Bank methodology whereas the Gross Domestic Product (GDP) per capita shown in Table 1 is based on the methodology described in the *Technical notes*. Economies are shown in alphabetical order within their income group in the tables. See Table A for a list of economies in alphabetical order and their location in the tables.

The data cover the public telecommunications sector. Due to differing regulatory obligations for the provision of data, a complete measurement of the sector for some economies cannot be achieved. Data for major telecommunication operators covering at least 90 per cent of the market are shown for all economies. More detailed information about coverage and country specific notes together with a full time-series from 1960, 1965, 1970, 1975–2001 is contained in a CD-ROM version available separately.

Data refer to the reporting period that is closest to the end of year indicated. See Table A for the fiscal year reporting period used in each country.

Telecommunication data are supplied by annual questionnaire sent to telecommunication authorities and operating companies. These data are supplemented by annual reports and statistical yearbooks of telecommunication ministries, regulators, operators and industry associations. In some cases, estimates are derived from ITU background documents or other references; estimates are shown in *italic*. Broadcasting data are supplied by annual questionnaire sent to national broadcasting authorities or industry associations. Demographic and

macro-economic data are provided by the relevant international organizations identified in the *Technical notes*.

The following signs and symbols are used in the tables:

<i>italic</i>	Year other than that specified or estimate.
k	Thousands (i.e., 1'000).
M	Millions (i.e., 1'000'000).
B	Billions (i.e., 1'000'000'000).
US\$	United States dollars. See the <i>Technical notes</i> for how US\$ figures are obtained.
%	Per cent.
–	Zero or a quantity less than half the unit shown. Also used for data items that are not applicable.
...	Data not available.
CAGR	Compound Annual Growth Rate. See the <i>Technical notes</i> for how this is computed.

The absence of any sign or symbol indicates that data are in units.

Comments and suggestions relating to the World Telecommunication Indicators should be addressed to:

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Additional information about Telecommunication Indicators can be found at the ITU's World Wide Web site at <http://www.itu.int/ITU-D/ict/>.

TABLE A: LIST OF ECONOMIES

<i>Economy</i>	<i>Location</i>	<i>Fiscal year</i>	<i>Region</i>	<i>Economy</i>	<i>Location</i>	<i>Fiscal year</i>	<i>Region</i>
Albania	60	Ending 31.12	Europe	Equatorial Guinea	76	Ending 31.12	Africa
Algeria	61	Ending 31.12	Africa	Eritrea	17	Ending 31.12	Africa
Andorra	148	Ending 31.12	Europe	Estonia	123	Ending 31.12	Europe
Angola	1	Ending 31.12	Africa	Ethiopia	18	Ending 31.12	Africa
Antigua & Barbuda	113	Beginning 01.04	Americas	Fiji	77	Ending 31.12	Oceania
Argentina	114	Ending 30.09	Americas	Finland	160	Ending 31.12	Europe
Armenia	2	Ending 31.12	Asia	France	161	Ending 31.12	Europe
Aruba	149	Ending 31.12	Americas	French Polynesia	162	Ending 31.12	Oceania
Australia	150	Ending 30.06	Oceania	Gabon	124	Ending 31.12	Africa
Austria	151	Ending 31.12	Europe	Gambia	19	Beginning 01.04	Africa
Azerbaijan	3	Ending 31.12	Asia	Georgia	20	Ending 31.12	Asia
Bahamas	152	Ending 31.12	Americas	Germany	163	Ending 31.12	Europe
Bahrain	115	Ending 31.12	Asia	Ghana	21	Ending 31.12	Africa
Bangladesh	4	Ending 30.06	Asia	Greece	164	Ending 31.12	Europe
Barbados	153	Beginning 01.04	Americas	Greenland	165	Ending 31.12	Europe
Belarus	62	Ending 31.12	Europe	Grenada	125	Ending 31.12	Americas
Belgium	154	Ending 31.12	Europe	Guadeloupe	126	Ending 31.12	Americas
Belize	63	Beginning 01.04	Americas	Guam	166	Ending 31.12	Oceania
Benin	5	Ending 31.12	Africa	Guatemala	78	Ending 31.12	Americas
Bermuda	155	Beginning 01.04	Americas	Guernsey	167	Ending 31.12	Europe
Bhutan	6	Ending 31.12	Asia	Guinea	22	Ending 31.12	Africa
Bolivia	64	Ending 31.12	Americas	Guinea-Bissau	23	Ending 31.12	Africa
Bosnia	65	Ending 31.12.	Europe	Guyana	79	Ending 31.12	Americas
Botswana	116	Beginning 01.04	Africa	Haiti	24	Ending 31.12	Americas
Brazil	117	Ending 31.12	Americas	Honduras	80	Ending 31.12	Americas
Brunei Darussalam	156	Ending 31.12	Asia	Hongkong SAR	168	Beginning 01.04	Asia
Bulgaria	66	Ending 31.12	Europe	Hungary	127	Ending 31.12	Europe
Burkina Faso	7	Ending 31.12	Africa	Iceland	169	Ending 31.12	Europe
Burundi	8	Ending 31.12	Africa	India	25	Beginning 01.04	Asia
Cambodia	9	Ending 31.12	Asia	Indonesia	26	Ending 31.12	Asia
Cameroon	10	Ending 31.12	Africa	Iran (I.R.)	81	Beginning 22.03	Asia
Canada	157	Ending 31.12	Americas	Ireland	170	Beginning 01.04	Europe
Cape Verde	67	Ending 31.12	Africa	Israel	171	Ending 31.12	Asia
Central African Rep.	11	Ending 31.12	Africa	Italy	172	Ending 31.12	Europe
Chad	12	Ending 31.12	Africa	Jamaica	82	Beginning 01.04	Americas
Chile	118	Ending 31.12	Americas	Japan	173	Beginning 01.04	Asia
China	68	Ending 31.12	Asia	Jersey	174	Ending 31.12	Europe
Colombia	69	Ending 31.12.	Americas	Jordan	83	Ending 31.12	Asia
Comoros	13	Ending 31.12.	Africa	Kazakhstan	84	Ending 31.12	Asia
Congo	14	Ending 31.12	Africa	Kenya	27	Ending 30.06	Africa
Costa Rica	119	Ending 31.12	Americas	Kiribati	85	Ending 31.12	Oceania
Côte d'Ivoire	15	Ending 31.12	Africa	Korea (Rep.)	128	Ending 31.12	Asia
Croatia	120	Ending 31.12	Europe	Kuwait	175	Ending 31.12	Asia
Cuba	70	Ending 31.12	Americas	Kyrgyzstan	28	Ending 31.12	Asia
Cyprus	158	Ending 31.12	Europe	Lao P.D.R.	29	Ending 31.12	Asia
Czech Republic	121	Ending 31.12	Europe	Latvia	86	Ending 31.12	Europe
D. R. of Congo	16	Ending 31.12	Africa	Lebanon	129	Ending 31.12	Asia
Denmark	159	Ending 31.12	Europe	Lesotho	30	Beginning 01.04	Africa
Djibouti	71	Ending 31.12	Africa	Libya	130	Ending 31.12	Africa
Dominica	122	Beginning 01.04	Americas	Lithuania	87	Ending 31.12	Europe
Dominican Rep.	72	Ending 31.12	Americas	Luxembourg	176	Ending 31.12	Europe
Ecuador	73	Ending 31.12	Americas	Macao SAR	177	Ending 31.12	Asia
Egypt	74	Ending 30.06	Africa	Madagascar	31	Ending 31.12	Africa
El Salvador	75	Ending 31.12	Americas	Malawi	32	Ending 31.12	Africa

<i>Economy</i>	<i>Location</i>	<i>Fiscal year</i>	<i>Region</i>	<i>Economy</i>	<i>Location</i>	<i>Fiscal year</i>	<i>Region</i>
Malaysia	131	Ending 31.12	Asia	Senegal	46	Ending 31.12	Africa
Maldives	88	Ending 31.12	Asia	Seychelles	140	Beginning 01.04	Africa
Mali	33	Ending 31.12	Africa	Sierra Leone	47	Ending 31.12	Africa
Malta	178	Ending 31.12	Europe	Singapore	187	Beginning 01.04	Asia
Marshall Islands	89	Ending 31.12	Oceania	Slovak Republic	141	Ending 31.12	Europe
Martinique	179	Ending 31.12	Americas	Slovenia	188	Ending 31.12	Europe
Mauritania	34	Ending 31.12	Africa	Solomon Islands	48	Beginning 01.04	Oceania
Mauritius	132	Ending 31.12	Africa	South Africa	142	Beginning 01.04	Africa
Mayotte	133	Ending 31.12	Africa	Spain	189	Ending 31.12	Europe
Mexico	134	Ending 31.12	Americas	Sri Lanka	101	Ending 31.12	Asia
Micronesia	90	Ending 31.12	Oceania	St. Kitts and Nevis	143	Beginning 01.04	Americas
Moldova	35	Ending 31.12	Europe	St. Vincent	102	Beginning 01.04	Americas
Mongolia	36	Ending 31.12	Asia	Sudan	49	Ending 31.12	Africa
Morocco	91	Ending 31.12	Africa	Suriname	103	Ending 31.12	Americas
Mozambique	37	Ending 31.12	Africa	Swaziland	104	Beginning 01.04	Africa
Myanmar	38	Ending 31.12	Asia	Sweden	190	Ending 31.12	Europe
Namibia	92	Ending 30.09	Africa	Switzerland	191	Ending 31.12	Europe
Nepal	39	Ending 15.07	Asia	Syria	105	Ending 31.12	Asia
Netherlands	180	Ending 31.12	Europe	Taiwan-China	192	Ending 31.12	Asia
New Caledonia	181	Ending 31.12	Oceania	Tajikistan	50	Ending 31.12	Asia
New Zealand	182	Beginning 01.04	Oceania	Tanzania	51	Ending 31.12	Africa
Nicaragua	40	Ending 31.12	Americas	TFYR Macedonia	106	Ending 31.12	Europe
Niger	41	Ending 31.12	Africa	Thailand	107	Ending 30.09	Asia
Nigeria	42	Ending 31.12	Africa	Togo	52	Ending 31.12	Africa
Northern Marianas	183	Ending 31.12	Asia	Tonga	108	Ending 31.12	Oceania
Norway	184	Ending 31.12	Europe	Trinidad & Tobago	144	Beginning 01.04	Americas
Oman	135	Ending 31.12	Asia	Tunisia	109	Ending 31.12	Africa
Palestine	93	Ending 31.12	Asia	Turkey	145	Ending 31.12	Europe
Pakistan	43	Ending 30.06	Asia	Turkmenistan	110	Ending 31.12	Asia
Panama	136	Ending 31.12	Americas	Uganda	53	Ending 30.06	Africa
Papua New Guinea	94	Ending 31.12	Oceania	Ukraine	54	Ending 31.12	Europe
Paraguay	95	Ending 31.12	Americas	United Arab Emirates	193	Ending 31.12	Asia
Peru	96	Ending 31.12	Americas	United Kingdom	194	Beginning 01.04	Europe
Philippines	97	Ending 31.12	Asia	United States	195	Ending 31.12	Americas
Poland	137	Ending 31.12	Europe	Uruguay	146	Ending 31.12	Americas
Portugal	185	Ending 31.12	Europe	Uzbekistan	55	Ending 31.12	Asia
Puerto Rico	138	Ending 31.12.	Americas	Vanuatu	111	Ending 31.12	Oceania
Qatar	186	Ending 31.12	Asia	Venezuela	147	Ending 31.12	Americas
Romania	98	Ending 31.12	Europe	Viet Nam	56	Ending 31.12	Asia
Russia	99	Ending 31.12	Europe	Virgin Islands (US)	196	Ending 31.12	Americas
Rwanda	44	Ending 31.12	Africa	Yemen	57	Ending 31.12	Asia
S. Tomé&Principe	45	Ending 31.12	Africa	Yugoslavia	112	Ending 31.12	Europe
Samoa	100	Ending 31.12	Oceania	Zambia	58	Beginning 01.04	Africa
Saudi Arabia	139	Ending 31.12	Asia	Zimbabwe	59	Ending 30.06	Africa

Note: Countries for which recent data is not available are shown in italic. Key indicators for these countries have been estimated.

TECHNICAL NOTES

General methodology

The compound annual growth rate (CAGR) is computed by the formula:

$$[(P_v / P_0)^{(1/n)}] - 1$$

where P_v = Present value
 P_0 = Beginning value
 n = Number of periods

The result is multiplied by 100 to obtain a percentage.

United States dollar figures are reached by applying the average annual exchange rate (from the International Monetary Fund, IMF) to the figure reported in national currency. For countries where the IMF rate is unavailable or where the exchange rate typically applied to foreign exchange transactions differs markedly from the official IMF rate, a World Bank conversion rate is used. For the few countries where neither the IMF nor World Bank rates are available, a United Nations end-of-period rate was used.

Group figures are either *totals* or weighted *averages* depending on the indicator. For example, for main telephone lines, the total number of *main telephone lines* for each grouping is shown, while for *main lines per 100 inhabitants* the weighted average is shown. Group figures are shown in bold in the tables. In cases of significant missing data, group totals are not shown. Group growth rates generally refer to countries for which data is available for both years.

1. Basic indicators

The data for *Population* are mid-year estimates from the United Nations (UN). National statistics have been used for some countries. *Population Density* is based on land area data from the UN; the land area does not include any overseas dependencies but does include inland waters. The data for *Gross Domestic Product (GDP)* are generally from the IMF, the Organization for Economic Co-operation and Development (OECD) or the World Bank. They are current price data in national currency converted to United States dollars by the method identified above. Readers are advised to consult the publications of the international organisations listed in *Sources* for precise definitions of the demographic and macro-economic data. *Total telephone subscribers* refer to the sum of main telephone lines and cellular mobile subscribers. *Total telephone subscribers per 100 inhabitants* is calculated by dividing the total number of telephone subscribers by the population and multiplying by 100.

2. Main telephone lines

This table shows the number of *Main telephone lines* and *Main telephone lines per 100 inhabitants* for the years indicated and corresponding annual growth rates. *Main telephone lines* refer to telephone lines connecting a customer's equipment (e.g., telephone set, facsimile machine) to the Public Switched Telephone Network (PSTN) and which have a dedicated port on a telephone exchange. Note that for most countries, main lines also include public payphones. *Main telephone lines per 100 inhabitants* is calculated by dividing the number of main lines by the population and multiplying by 100.

8. Cellular subscribers

Cellular mobile telephone subscribers refer to users of portable telephones subscribing to an automatic public mobile telephone service using cellular technology that provides access to the PSTN. *Per 100 inhabitants* is obtained by dividing the number of cellular subscribers by the population and multiplying by 100. *% digital* is the number of mobile cellular subscribers who use a digital cellular service (e.g., GSM, CDMA, DAMPS, PCS, PHS) by the total number of cellular subscribers. *As a % of total telephone subscribers* is obtained by dividing the number of cellular subscribers by the total number of telephone subscribers (sum of the main telephone lines and the cellular subscribers) and multiplying by 100.

16. Information technology

Internet hosts refer to the number of computers in the economy that are directly linked to the worldwide Internet network. Note that Internet host computers are identified by a two digit country code or a three digit code generally reflecting the nature of the organization using the Internet computer. The number of hosts are assigned to countries based on the country code although this does not necessarily indicate that the host is actually physically in the country. In addition, all other hosts for which there is no country code identification are assigned to the United States. Therefore the number of Internet hosts shown for each country can only be considered an approximation. Data on Internet host computers come from Internet Software Consortium (<http://www.isc.org>) and RIPE (<http://www.ripe.net>). *Users* is based on reported estimates, derivations based on reported Internet Access Provider subscriber counts, or calculated by multiplying the number of hosts by an estimated multiplier. *Estimated PCs* shows the number of Personal Computers (PCs), both in absolute numbers and in terms of PC ownership per 100 inhabitants. These numbers are derived from the annual questionnaire supplemented by other sources.

22. Gender Internet

The indicator *Female Internet Users* refers to the number of women using the Internet compared to the total number of people using the Internet within a country. It is calculated by dividing the number of female Internet users by the total number of Internet users (as described in *Information Technology*) and then multiplied by 100. The numbers on which the indicator is based are derived from various sources, including national statistical agencies, government reports and analysis, media analysis and other Internet surveys, such as Nielsen/NetRatings.