

	<i>Internet</i>				<i>Estimated PCs</i>	
	<i>Hosts</i>	<i>Hosts per</i>	<i>Users</i>	<i>Users per</i>	<i>Total</i>	<i>Per 100</i>
	<i>Total</i>	<i>10'000 inhab.</i>	<i>(k)</i>	<i>10'000 inhab.</i>	<i>(k)</i>	<i>inhab.</i>
	<i>2002</i>	<i>2002</i>	<i>2002</i>	<i>2002</i>	<i>2002</i>	<i>2002</i>
1 Algeria	821	0.26	500.0	159.78	242	0.77
2 Angola	7	0.01	41.0	29.42	27	0.19
3 Benin	574	0.87	25.0 [01]	38.78	12	0.18
4 Botswana	1'617	9.40	50.0 [01]	297.47	70	4.07
5 Burkina Faso	409	0.34	25.0	20.90	19	0.16
6 Burundi	3	-	8.4	12.02	5	0.07
7 Cameroon	439	0.28	45.0 [01]	29.19	72	0.46
8 Cape Verde	48	1.09	16.0	364.46	35	7.97
9 Central African Rep.	6	0.02	3.0 [01]	7.93	8	0.20
10 Chad	11	0.01	15.0	19.06	13	0.17
11 Comoros	12	0.16	3.2	41.99	4	0.55
12 Congo	36	0.11	5.0	15.20	13	0.40
13 Côte d'Ivoire	4'397	2.67	90.0	54.58	154	0.93
14 D.R. Congo	134	0.03	20.0	3.80	...	...
15 Djibouti	498	7.59	4.5	68.60	10	1.52
16 Egypt	3'061	0.47	1'500.0	228.51	1'120	1.71
17 Equatorial Guinea	3	0.06	1.7	34.84	4	0.72
18 Eritrea	859	2.16	9.0	22.61	10	0.25
19 Ethiopia	41	0.01	50.0	7.42	100	0.15
20 Gabon	79	0.61	25.0	192.46	25	1.92
21 Gambia	568	4.14	18.0 [01]	134.63	19	1.38
22 Ghana	313	0.14	50.0	23.07	82	0.38
23 Guinea	251	0.33	35.0	45.66	42	0.55
24 Guinea-Bissau	20	0.16	5.0	39.90	...	...
25 Kenya	2'963	0.93	400.0	125.27	204	0.64
26 Lesotho	45	0.21	21.0	96.91	...	...
27 Libya	83	0.15	125.0	225.02	130	2.34
28 Madagascar	509	0.32	45.0	28.28	46	0.29
29 Malawi	17	0.02	27.0	25.87	14	0.13
30 Mali	158	0.15	32.0	30.11	15	0.14
31 Mauritania	79	0.29	10.0	37.28	29	1.08
32 Mauritius	3'462	28.60	180.0	1'487.00	141	11.65
33 Mayotte	-	-	...	...	...	...
34 Morocco	2'680	0.90	500.0	168.67	457	1.54
35 Mozambique	1'925	1.06	30.0 [01]	16.99	82	0.45
36 Namibia	3'709	19.78	50.0	266.67	133	7.09
37 Niger	119	0.10	12.0 [01]	10.69	7	0.06
38 Nigeria	1'030	0.09	200.0	16.66	853	0.71
39 Rwanda	1'233	1.51	20.0 [01]	25.16	...	...
40 S. Tomé & Príncipe	1'069	70.79	11.0	728.48	...	...
41 Senegal	761	0.78	105.0	107.12	200	2.04
42 Seychelles	266	32.05	9.0 [01]	1'098.90	13	15.66
43 Sierra Leone	277	0.56	8.0	16.16	...	...
44 South Africa	198'853	43.75	3'100.0	682.01	3'300	7.26
45 Sudan	-	-	84.0	25.82	200	0.61
46 Swaziland	1'329	12.88	20.0	193.80	25	2.42
47 Tanzania	1'731	0.50	80.0	23.14	144	0.42
48 Togo	80	0.16	200.0	398.64	150	2.99
49 Tunisia	341	0.35	505.5	515.03	300	3.06
50 Uganda	2'242	0.91	70.0	28.34	82	0.33
51 Zambia	1'621	1.52	52.4	49.01	80	0.75
52 Zimbabwe	2'382	2.05	500.0	429.75	600	5.16
Africa	243'171	3.02	8'941.7	111.25	9'291	1.26
53 Antigua & Barbuda	622	79.74	7.0 [01]	904.09	...	...
54 Argentina	495'920	135.50	4'100.0	1'120.22	3'000	8.20
55 Aruba	1'142	103.82	24.0 [01]	2'264.15	...	...
56 Bahamas	32	1.03	21.2	679.74	...	...
57 Barbados	160	5.95	15.0 [01]	559.08	28	10.41
58 Belize	1'498	59.21	22.0	869.57	35	13.83
59 Bermuda	6'533	1'005.08	30.0 [01]	4'643.96	34	52.31
60 Bolivia	1'413	1.69	270.0	323.70	190	2.28
61 Brazil	2'237'527	128.68	14'300.0	822.41	13'000	7.48
62 Canada	2'993'982	953.07	15'200.0	4'838.61	15'300	48.70
63 Chile	135'155	89.80	3'575.0	2'375.36	1'796	11.93
64 Colombia	55'626	12.85	1'982.0	457.84	2'133	4.93
65 Costa Rica	7'725	18.65	384.0 [01]	933.63	817	19.72
66 Cuba	1'133	1.00	120.0 [01]	106.79	359	3.18
67 Dominica	464	59.49	12.5	1'602.56	7	8.97
68 Dominican Rep.	45'508	52.26	300.0	344.53	...	...

	<i>Internet</i>				<i>Estimated PCs</i>	
	<i>Hosts</i>	<i>Hosts per</i>	<i>Users</i>	<i>Users per</i>	<i>Total</i>	<i>Per 100</i>
	<i>Total</i>	<i>10'000 inhab.</i>	<i>(k)</i>	<i>10'000 inhab.</i>	<i>(k)</i>	<i>inhab.</i>
69 Ecuador	2'648	2.05	503.3	388.92	403	3.11
70 El Salvador	269	0.42	300.0	464.58	163	2.52
71 Grenada	14	1.32	6.5	613.21	14	13.21
72 Guadeloupe	403	8.69	20.0 [01]	434.78	111	23.92
73 Guatemala	9'789	8.16	400.0	333.42	173	1.44
74 Guyana	63	0.72	125.0	1'422.07	24	2.73
75 Haiti	-	-	80.0	96.41	...	...
76 Honduras	160	0.24	200.0	297.97	91	1.36
77 Jamaica	1'276	4.87	600.0	2'291.83	141	5.39
78 Martinique	319	7.88	40.0 [01]	1'000.00	54	13.33
79 Mexico	1'107'795	108.74	4'663.4	457.74	8'353	8.20
80 Nicaragua	3'370	6.28	90.0	167.60	150	2.79
81 Panama	7'393	24.59	120.0 [01]	413.94	115	3.83
82 Paraguay	4'351	7.53	100.0	172.95	200	3.46
83 Peru	19'447	7.27	2'500.0	934.62	1'488	5.56
84 Puerto Rico	871	2.26	600.0 [01]	1'563.31	...	...
85 St. Kitts and Nevis	2	0.43	5.0	1'063.83	9	19.15
86 St. Vincent	-	-	7.0	598.29	14	11.97
87 Suriname	24	0.54	14.5 [01]	330.00	20 [01]	4.55
88 Trinidad & Tobago	7'209	55.39	138.0	1'060.32	104	7.95
89 United States	115'311'958	3'998.77	155'000.0	5'375.06	190'000	65.89
90 Uruguay	78'660	232.38	400.0 [01]	1'190.12	370 [01]	11.01
91 Venezuela	24'138	9.58	1'274.4	505.63	1'536	6.09
92 Virgin Islands (US)	3'924	356.73	30.0	2'727.27	...	...
Americas	122'568'523	1'441.36	207'579.8	2'441.76	240'231	28.98
93 Armenia	2'850	7.50	60.0	157.85	60	1.58
94 Azerbaijan	1'139	1.40	300.0	368.51	...	...
95 Bahrain	1'339	20.08	165.0	2'474.66	107	16.04
96 Bangladesh	2	-	204.0	15.32	450	0.34
97 Bhutan	1'242	17.98	10.0	144.75	10	1.45
98 Brunei Darussalam	8'668	246.25	35.0 [01]	1'023.39	27	7.67
99 Cambodia	1'391	1.01	30.0	21.76	27	0.20
100 China	156'531	1.22	59'100.0	460.09	35'500	2.76
101 Georgia	3'032	6.15	73.5	148.97	156	3.16
102 Hong Kong, China	398'151	587.85	2'918.8	4'309.46	2'864	42.29
103 India	78'595	0.75	16'580.0	159.14	7'500	0.72
104 Indonesia	61'279	2.89	8'000.0	377.16	2'519	1.19
105 Iran (I.R.)	3'491	0.53	3'168.0	484.64	4'900	7.50
106 Israel	146'791	221.22	2'000.0	3'014.05	1'610	24.26
107 Japan	9'260'117	726.65	57'200.0	4'488.56	48'700	38.22
108 Jordan	4'116	7.72	307.5	576.97	200	3.75
109 Kazakhstan	16'562	10.37	150.0 [01]	93.20	...	...
110 Korea (Rep.)	407'318	85.57	26'270.0	5'518.91	26'458	55.58
111 Kuwait	3'261	13.79	250.0	1'057.53	285	12.06
112 Kyrgyzstan	5'930	11.64	152.0	298.33	65	1.27
113 Lao P.D.R.	281	0.51	15.0	27.11	18	0.33
114 Lebanon	7'199	21.08	400.0	1'171.30	275	8.05
115 Macao, China	150	3.43	115.0	2'627.37	92	21.02
116 Malaysia	86'285	35.18	7'841.0	3'196.89	3'600	14.68
117 Maldives	-	-	15.0	533.81	20	7.12
118 Mongolia	127	0.52	50.0	205.85	69	2.84
119 Myanmar	2	-	10.0 [01]	2.07	58	0.12
120 Nepal	1'206	0.52	80.0	34.48	85	0.37
121 Oman	676	2.49	180.0	663.96	95	3.50
122 Pakistan	12'707	0.87	1'500.0	102.77	600 [01]	0.42
123 Palestine	...	...	105.0	303.91	125	3.62
124 Philippines	38'440	4.84	3'500.0	440.38	2'200	2.77
125 Qatar	171	2.80	70.0	1'147.54	110	18.03
126 Saudi Arabia	14'788	6.41	1'418.9	615.30	3'003	13.02
127 Singapore	338'349	812.62	2'247.0	5'396.64	2'100 [01]	50.83
128 Sri Lanka	2'335	1.23	200.0	105.56	250	1.32
129 Syria	11	0.01	220.0	129.11	330	1.94
130 Taiwan, China	2'170'233	966.39	8'590.0	3'825.09	8'887	39.57
131 Tajikistan	302	0.47	3.5	5.49	...	...
132 Thailand	100'132	16.18	4'800.0	775.61	2'461	3.98
133 Turkmenistan	2'020	4.16	8.0 [01]	16.55	...	...
134 United Arab Emirates	52'332	163.54	1'175.6	3'673.80	450	14.06
135 Uzbekistan	281	0.11	275.0	108.74	...	...
136 Viet Nam	529	0.07	1'500.0	184.62	800	0.98

	<i>Internet</i>				<i>Estimated PCs</i>	
	<i>Hosts</i>	<i>Hosts per</i>	<i>Users</i>	<i>Users per</i>	<i>Total</i>	<i>Per 100</i>
	<i>Total</i>	<i>10'000 inhab.</i>	<i>(k)</i>	<i>10'000 inhab.</i>	<i>(k)</i>	<i>inhab.</i>
137 Yemen	113	0.06	100.0	51.30	145	0.74
Asia	13'390'474	37.07	211'392.8	584.75	157'211	4.43
138 Albania	172	0.43	12.0	29.77	36	0.89
139 Andorra	2'778	338.78	7.0 [00]	897.44	...	...
140 Austria	367'933	450.95	3'340.0	4'093.64	3'013	36.93
141 Belarus	4'025	4.06	808.7	815.84	...	...
142 Belgium	336'604	325.35	3'400.0	3'286.29	2'500	24.16
143 Bosnia	5'702	13.91	100.0	243.90	...	...
144 Bulgaria	32'986	42.28	700.0	897.32	405	5.19
145 Croatia	29'644	61.20	789.0	1'628.82	760	15.69
146 Cyprus	2'692	38.46	210.0	3'000.00	193	27.57
147 Czech Republic	226'429	223.21	2'500.0	2'464.51	1'800	17.74
148 Denmark	836'631	1'556.74	2'500.0	4'651.81	3'100	57.68
149 Estonia	63'364	467.63	560.0	4'132.84	285	21.03
150 Finland	1'220'062	2'343.12	2'650.0	5'089.30	2'300	44.17
151 France	1'388'681	232.86	18'716.0	3'138.32	20'700	34.71
152 Germany	2'594'323	314.32	35'000.0	4'240.54	35'600	43.13
153 Greece	160'829	145.97	1'704.9	1'547.41	900	8.17
154 Greenland	2'914	514.15	25.0	4'411.04	...	...
155 Guernsey	1'634	291.79	30.0	5'357.14	...	...
156 Hungary	194'503	191.59	1'600.0	1'576.04	1'100	10.84
157 Iceland	68'261	2'370.17	175.0	6'076.39	130	45.14
158 Ireland	136'487	347.21	1'065.0	2'709.23	1'654	42.08
159 Italy	672'638	119.13	17'000.0	3'010.77	13'025	23.07
160 Jersey	1'712	195.43	8.0 [00]	921.87	...	...
161 Latvia	35'492	152.39	310.0	1'331.04	400	17.17
162 Lithuania	54'605	157.82	500.0	1'445.09	380	10.98
163 Luxembourg	17'260	384.41	165.0	3'674.83	265	59.02
164 Malta	7'355	185.73	99.0 [01]	2'525.51	101	25.51
165 Moldova	2'189	4.97	60.0 [01]	136.67	77	1.75
166 Netherlands	3'137'203	1'937.14	8'590.0	5'304.11	7'557	46.66
167 Norway	255'742	561.33	2'300.0	5'048.29	2'405	52.79
168 Poland	657'495	170.30	3'800.0 [01]	983.72	4'079	10.56
169 Portugal	164'711	158.24	3'700.0	3'554.62	1'394	13.39
170 Romania	40'971	18.35	1'800.0	806.09	898	4.02
171 Russia	409'229	27.92	6'000.0	409.32	13'000	8.87
172 Serbia and Montenegro	16'972	15.83	640.0	597.01	290	2.71
173 Slovak Republic	85'998	159.91	862.8	1'604.38	970	18.04
174 Slovenia	35'791	179.31	800.0	4'008.02	600	30.06
175 Spain	589'979	145.02	7'856.0	1'931.03	7'972	19.60
176 Sweden	849'174	949.54	5'125.0	5'730.74	5'556	62.13
177 Switzerland	560'902	770.34	2'375.0	3'261.79	4'225	58.03
178 TFYR Macedonia	3'167	15.34	100.0	484.50	...	...
179 Turkey	154'585	22.98	4'900.0	728.39	3'000	4.46
180 Ukraine	71'691	14.30	1'000.0	199.45	951	1.90
181 United Kingdom	2'865'930	485.03	24'000.0	4'061.74	23'972	40.57
Europe	18'367'445	229.72	167'883.4	2'099.69	165'593	21.14
182 Australia	2'564'339	1'304.16	8'400.0	4'272.03	11'111	56.51
183 Fiji	785	9.41	50.0	599.52	40	4.80
184 French Polynesia	3'661	152.51	35.0	1'458.08	70	29.16
185 Guam	129	8.06	48.0 [01]	3'053.44	...	...
186 Kiribati	35	4.00	2.0	228.36	1	1.14
187 Marshall Islands	5	0.88	1.3	220.97	3	5.30
188 Micronesia	636	53.94	6.0	508.85	...	...
189 New Caledonia	5'915	264.06	30.0	1'339.29	...	...
190 New Zealand	432'957	1'099.13	1'908.0	4'843.75	1'630	41.38
191 Northern Marianas	15	3.00	...	...	...	...
192 Papua New Guinea	517	0.95	75.0	137.26	321	5.87
193 Samoa	5'705	316.94	4.0	222.22	1	0.67
194 Solomon Islands	470	10.58	2.2	49.51	18	4.05
195 Tonga	19'485	1'968.18	2.9	292.93	2	2.02
196 Vanuatu	551	26.88	7.0	341.46	3	1.46
Oceania	3'035'205	955.54	10'571.4	3'333.60	13'200	42.29
World	157'604'818	258.38	606'369.1	994.01	585'525	9.87

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 (Internet host data; Network Wizards, RIPE).

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.