

1. Basic indicators

WTI

	Population		GDP		Total telephone subscribers	
	Total	Density	Total	per capita	Total	per 100
	(M)	(per km ²)	(B US\$)	(US\$)	(k)	inhabitants
	2005	2005	2004	2004	2005	2005
1 Algeria	32.85	14	66.2	2'085	16'861.0	51.32
2 Angola	15.94	13	10.0	715	1'188.4	7.45
3 Benin	7.50	67	4.0	556	151.3	2.02
4 Botswana	1.76	3	8.5	4'957	955.1	54.11
5 Burkina Faso	13.23	48	5.1	378	669.6	5.06
6 Burundi	7.55	271	0.7	96	128.3	1.82
7 Cameroon	16.32	34	10.6	670	1'636.0	10.04
8 Cape Verde	0.51	126	0.8	1'773	153.1	30.20
9 Central African Rep.	4.04	6	1.3	329	70.0	1.79
10 Chad	9.75	8	3.9	445	136.0	1.54
11 Comoros	0.80	429	0.2	303	33.0	4.14
12 Congo	4.00	12	4.3	1'114	397.5	10.41
13 Côte d'Ivoire	18.15	56	16.0	949	1'518.7	9.13
14 D.R. Congo	314.55	134	6.5	120	2'756.6	0.88
15 Djibouti	0.69	31	0.6	894	45.6	6.70
16 Egypt	74.03	74	78.2	1'118	24'025.8	32.45
17 Equatorial Guinea	0.50	18	5.2	10'295	106.9	21.25
18 Eritrea	4.40	36	0.6	146	78.2	1.78
19 Ethiopia	77.43	63	6.3	96	532.8	0.77
20 Gabon	1.38	5	7.1	5'310	688.9	49.78
21 Gambia	1.52	142	0.4	270	291.5	19.21
22 Ghana	22.11	93	7.6	358	2'008.3	9.39
23 Guinea	8.00	33	2.9	381	137.7	1.78
24 Guinea-Bissau	1.34	37	0.3	214	11.8	0.92
25 Kenya	34.26	59	16.1	496	4'893.7	14.29
26 Lesotho	1.79	59	1.1	524	293.0	16.32
27 Liberia	3.28	29	0.6	174	8.8	0.28
28 Libya	5.85	3	19.4	3'484	877.0	15.86
29 Madagascar	18.61	31	5.9	362	571.6	3.07
30 Malawi	12.88	137	1.9	152	532.0	4.13
31 Mali	11.35	9	4.8	435	944.6	8.33
32 Mauritania	3.07	3	1.0	365	561.4	18.84
33 Mauritius	1.25	668	6.3	5'146	1'072.3	86.13
34 Mayotte	0.17	444	...	...	30.3	18.91
35 Morocco	31.48	48	50.0	1'673	13'734.0	43.63
36 Mozambique	19.79	25	3.9	217	777.7	4.10
37 Namibia	2.03	2	2.9	1'523	414.0	20.59
38 Niger	13.96	12	3.0	244	172.4	1.39
39 Nigeria	131.53	142	64.4	506	19'820.0	15.07
40 Réunion	0.79	313	...	...	721.1	98.65
41 Rwanda	9.04	343	1.8	210	161.7	1.91
42 S. Tomé & Príncipe	0.16	163	0.1	331	11.8	7.76
43 Senegal	11.66	59	7.6	737	1'996.7	17.13
44 Seychelles	0.08	200	0.7	8'348	78.4	96.80
45 Sierra Leone	5.53	76	1.1	216	91.0	1.84
46 Somalia	12.00	19	...	...	600.0	5.00
47 South Africa	47.43	40	104.2	2'293	21'681.0	46.76
48 Sudan	36.23	14	17.3	500	2'077.5	6.02
49 Swaziland	1.03	59	2.0	1'871	235.0	22.75
50 Tanzania	38.33	41	9.7	282	2'090.4	5.55
51 Togo	6.14	108	2.0	404	280.6	5.61
52 Tunisia	10.05	61	28.0	2'821	6'937.7	69.06
53 Uganda	28.82	120	6.4	251	1'625.9	5.64
54 Zambia	11.67	16	3.7	338	556.1	5.09
55 Zimbabwe	11.90	30	7.4	654	1'027.0	8.63
Africa	1'160.50	38	620.5	746	139'456.8	12.25

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	(M)	(per km ²)	(B US\$)	(US\$)	(k)	inhabitants
	2005	2005	2004	2004	2005	2005
56 Antigua & Barbuda	0.08	174	0.7	9'103	92.0	119.48
57 Argentina	38.59	14	153.2	4'007	30'900.0	80.07
58 Aruba	0.11	570	1.9	17'375	90.1	85.03
59 Bahamas	0.32	23	4.8	15'442	325.9	102.82
60 Barbados	0.27	626	2.6	9'659	341.1	126.79
61 Belize	0.27	12	1.0	3'968	126.4	46.80
62 Bermuda	0.06	1'148	2.3	35'627	86.0	132.31
63 Bolivia	9.18	8	8.8	977	3'067.7	33.41
64 Brazil	186.41	22	602.9	3'338	107'987.2	59.78
65 Canada	32.27	3	737.3	23'213	34'876.4	108.08
66 Chile	15.59	21	94.1	6'108	14'005.5	89.82
67 Colombia	45.60	40	97.0	2'141	18'167.6	40.08
68 Costa Rica	4.33	85	17.5	4'193	2'489.5	57.53
69 Cuba	11.27	98	17.1	1'518	984.4	8.74
70 Dominica	0.07	95	0.3	3'669	62.8	88.08
71 Dominican Rep.	8.91	184	18.5	2'099	4'517.8	50.72
72 Ecuador	13.23	29	30.3	2'295	7'947.8	60.08
73 El Salvador	6.88	322	15.8	2'392	3'383.2	49.17
74 French Guiana	0.19	2	1.6	8'564	126.3	74.86
75 Grenada	0.10	299	0.4	3'908	76.0	73.80
76 Guadeloupe	0.45	263	3.5	7'990	502.5	116.60
77 Guatemala	12.60	116	26.8	2'117	4'300.4	33.97
78 Guyana	0.75	3	0.7	835	360.1	47.95
79 Haiti	8.53	307	3.7	445	540.0	6.58
80 Honduras	7.20	64	7.5	1'075	1'775.8	24.65
81 Jamaica	2.65	232	8.1	3'084	3'042.0	114.75
82 Martinique	0.40	359	6.1	15'596	458.1	118.44
83 Mexico	107.03	54	636.9	6'328	66'974.1	62.58
84 Neth. Antilles	0.22	278	2.5	11'011	...	...
85 Nicaragua	5.68	47	4.6	801	1'340.2	23.58
86 Panama	3.23	41	14.2	4'477	1'792.1	55.51
87 Paraguay	6.16	15	6.0	1'018	2'207.3	35.84
88 Peru	27.97	22	68.7	2'476	7'833.9	28.01
89 Puerto Rico	3.96	441	44.2	11'519	3'793.9	97.35
90 St. Kitts and Nevis	0.05	192	0.4	8'079	35.0	70.00
91 St. Lucia	0.16	261	0.8	5'017	65.4	40.90
92 St. Vincent	0.12	306	0.4	3'162	93.1	78.26
93 Suriname	0.45	3	1.0	2'054	313.8	69.90
94 Trinidad & Tobago	1.31	255	11.4	8'729	1'123.5	86.02
95 United States	298.21	32	10'445.6	36'273	360'347.0	122.71
96 Uruguay	3.24	17	13.2	4'078	1'600.0	49.37
97 Venezuela	26.75	29	109.0	4'164	16'101.2	60.19
98 Virgin Islands (US)	0.11	325	2.5	22'584	135.1	121.70
Americas	890.95	22	13'225.9	15'292	704'388.4	80.06

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	Total	Density	Total	per capita	Total	per 100	
	(M)	(per km ²)	(B US\$)	(US\$)	(k)	inhabitants	
	2005	2005	2004	2004	2005	2005	
99	Afghanistan	25.00	38	20.7	919	1'300.0	5.20
100	Armenia	3.80	127	3.6	935	785.8	20.67
101	Azerbaijan	8.41	97	8.5	1'023	3'333.4	39.63
102	Bahrain	0.73	1'025	10.9	15'199	945.2	130.02
103	Bangladesh	141.82	985	51.7	382	3'612.5	2.63
104	Bhutan	0.78	17	0.5	734	70.6	9.04
105	Brunei Darussalam	0.37	65	4.3	12'447	225.4	65.92
106	Cambodia	14.07	78	4.9	337	534.7	3.78
107	China	1'315.84	137	1'648.7	1'268	743'861.0	56.53
108	D.P.R. Korea	22.49	183	15.7	670	916.0	3.87
109	Georgia	4.47	64	3.3	673	1'523.8	30.03
110	Hong Kong, China	7.04	6'630	165.7	23'960	12'430.1	176.54
111	India	1'103.37	348	685.2	634	124'836.1	11.31
112	Indonesia	222.78	116	257.3	1'156	59'682.2	26.79
113	Iran (I.R.)	69.52	42	163.7	2'345	26'208.2	37.70
114	Iraq	26.07	59	...	...	1'608.2	6.22
115	Israel	6.90	312	116.9	17'040	10'762.0	155.97
116	Japan	128.08	339	3'991.8	31'324	153'525.0	119.86
117	Jordan	5.70	59	9.9	1'814	2'211.9	39.41
118	Kazakhstan	14.82	5	41.0	2'664	5'258.9	34.14
119	Korea (Rep.)	48.29	491	679.7	14'136	62'087.5	128.56
120	Kuwait	2.69	111	56.6	22'179	2'890.1	107.56
121	Kyrgyzstan	5.26	27	2.2	433	979.8	18.62
122	Lao P.D.R.	5.92	25	2.8	477	713.5	12.04
123	Lebanon	3.58	344	16.7	4'988	1'980.0	55.35
124	Macao, China	0.46	19'328	10.3	22'158	707.1	153.73
125	Malaysia	26.00	78	117.8	4'604	23'911.0	91.97
126	Maldives	0.33	1'101	0.6	2'258	185.7	56.61
127	Mongolia	2.65	2	1.2	483	713.3	26.95
128	Myanmar	54.00	80	10.3	193	659.6	1.22
129	Nepal	27.13	192	6.7	271	697.5	2.57
130	Oman	2.57	9	22.0	9'379	1'598.5	62.27
131	Pakistan	153.96	192	93.7	614	18'048.7	11.72
132	Palestine	3.70	615	3.0	873	1'443.6	39.00
133	Philippines	83.06	277	86.4	1'046	36'373.4	44.01
134	Qatar	0.78	68	20.4	28'920	922.1	118.56
135	Saudi Arabia	24.57	10	250.6	10'055	17'100.0	69.59
136	Singapore	4.33	6'335	106.8	24'759	6'229.0	144.02
137	Sri Lanka	20.74	316	20.1	1'031	4'605.8	22.20
138	Syria	19.04	103	19.4	1'133	5'853.1	30.73
139	Taiwan, China	22.86	635	305.3	13'455	35'786.1	156.56
140	Tajikistan	6.51	45	1.2	188	292.8	4.48
141	Thailand	62.02	121	163.5	2'638	23'193.6	37.40
142	Turkmenistan	4.83	10	4.4	988	385.3	7.92
143	United Arab Emirates	4.50	54	71.0	18'919	5'771.3	128.37
144	Uzbekistan	26.59	59	6.5	257	2'037.9	7.96
145	Viet Nam	84.24	256	45.4	551	24'780.0	29.42
146	Yemen	20.98	110	11.3	563	1'870.1	9.02
	Asia	3'843.67	124	9'340.3	2'487	1'435'447.7	37.39

		Population		GDP		Total telephone subscribers	
		Total (M)	Density (per km ²)	Total (B US\$)	per capita (US\$)	Total (k)	per 100 inhabitants
		2005	2005	2004	2004	2005	2005
147	Albania	3.13	109	4.1	1'332	1'355.0	44.10
148	Andorra	0.07	144	...	...	100.0	149.26
149	Austria	8.17	97	292.6	35'660	11'865.0	145.14
150	Belarus	9.76	47	22.9	2'323	7'382.3	75.67
151	Belgium	10.45	342	355.7	34'048	13'932.7	133.38
152	Bosnia	3.91	76	7.0	1'836	2'563.2	65.61
153	Bulgaria	7.73	70	24.1	3'100	8'728.2	112.97
154	Croatia	4.55	81	34.3	7'764	4'873.4	107.06
155	Cyprus	0.83	90	15.4	19'026	1'138.9	136.39
156	Czech Republic	10.22	130	107.7	10'551	14'993.2	146.70
157	Denmark	5.43	126	243.8	45'059	8'819.6	162.39
158	Estonia	1.33	29	11.2	8'585	1'887.3	142.01
159	Faroe Islands	0.05	34	1.1	24'102	66.4	137.83
160	Finland	5.25	14	184.9	35'442	7'351.0	140.05
161	France	60.50	111	2'035.0	33'674	83'758.4	138.45
162	Germany	82.69	232	2'735.4	33'156	134'246.0	162.35
163	Greece	11.12	84	206.4	18'801	16'346.1	147.00
164	Greenland	0.06	-	...	...	45.3	79.85
165	Guernsey	0.06	858	1.8	32'428	98.9	...
166	Hungary	10.10	109	100.3	9'935	12'676.1	125.53
167	Iceland	0.29	3	12.2	41'765	497.9	169.34
168	Ireland	4.15	60	144.4	35'726	6'243.0	150.51
169	Italy	58.09	193	1'668.3	28'764	96'584.0	166.26
170	Jersey	0.09	759	...	...	135.3	155.24
171	Latvia	2.31	36	13.6	5'940	2'511.7	108.87
172	Lithuania	3.43	53	22.5	6'518	5'154.6	150.48
173	Luxembourg	0.47	180	31.7	69'027	899.0	199.13
174	Malta	0.40	1'269	5.4	13'460	526.1	131.20
175	Moldova	4.21	125	2.6	609	2'019.2	48.02
176	Netherlands	16.30	396	603.3	37'176	23'434.0	143.78
177	Norway	4.62	14	250.1	54'939	6'883.4	148.96
178	Poland	38.53	123	209.4	5'427	35'554.1	92.23
179	Portugal	10.49	114	166.7	15'833	15'681.7	149.44
180	Romania	21.71	91	56.9	2'626	17'744.9	81.73
181	Russia	143.50	8	347.4	2'370	160'100.0	111.57
182	Serbia and Montenegro	8.17	80	15.6	1'916	7'415.0	90.95
183	Slovak Republic	5.40	110	41.1	7'630	5'737.4	106.23
184	Slovenia	1.97	97	32.5	16'403	2'575.6	130.94
185	Spain	42.69	85	1'033.7	23'930	59'649.9	139.72
186	Sweden	9.04	20	350.1	38'850	16'222.0	180.02
187	Switzerland	7.46	181	267.5	36'738	11'970.0	160.43
188	TFYR Macedonia	2.03	79	3.4	1'705	1'522.6	73.70
189	Turkey	73.19	94	302.0	4'176	62'587.2	85.51
190	Ukraine	46.48	77	64.7	1'344	25'877.0	53.74
191	United Kingdom	59.67	244	1'558.1	26'369	94'791.0	158.51
Europe		800.07	31	13'586.9	16'929	994'543.7	124.03

1. Basic indicators

WTI

		<i>Population</i>		<i>GDP</i>		<i>Total telephone subscribers</i>	
		<i>Total</i>	<i>Density</i>	<i>Total</i>	<i>per capita</i>	<i>Total</i>	<i>per 100</i>
		<i>(M)</i>	<i>(per km²)</i>	<i>(B US\$)</i>	<i>(US\$)</i>	<i>(k)</i>	<i>inhabitants</i>
		<i>2005</i>	<i>2005</i>	<i>2004</i>	<i>2004</i>	<i>2005</i>	<i>2005</i>
192	Australia	20.16	3	505.7	25'436	29'880.0	148.25
193	Fiji	0.85	46	1.0	1'164	211.9	25.66
194	French Polynesia	0.26	65	3.9	16'310	140.4	54.84
195	Guam	0.17	376	3.4	22'086	112.6	71.63
196	Kiribati	0.09	124	-	464	5.0	5.68
197	Marshall Islands	0.06	31	0.1	1'893	5.1	9.38
198	Micronesia	0.11	80	0.3	2'567	24.8	22.33
199	New Caledonia	0.24	12	3.1	13'940	189.6	79.99
200	New Zealand	4.03	15	77.3	19'290	4'827.5	123.62
201	Northern Marianas	0.08	161	...	...	...	...
202	Papua New Guinea	5.89	13	4.3	738	77.0	1.41
203	Samoa	0.19	65	0.3	1'428	23.8	13.05
204	Solomon Islands	0.48	16	0.3	616	13.4	2.80
205	Tonga	0.10	143	0.1	1'322	14.6	14.67
206	Vanuatu	0.22	15	0.2	1'113	17.3	8.10
Oceania		32.89	4	600.0	18'561	35'542.8	110.30

	<i>Population</i>		<i>GDP</i>		<i>Total telephone subscribers</i>	
	<i>Total</i>	<i>Density</i>	<i>Total</i>	<i>per capita</i>	<i>Total</i>	<i>per 100</i>
	<i>(M)</i>	<i>(per km²)</i>	<i>(B US\$)</i>	<i>(US\$)</i>	<i>(k)</i>	<i>inhabitants</i>
	2005	2005	2004	2004	2005	2005
WTI	6'728.08	50	37'373.5	5'944	3'309'379.4	49.45

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/ICT INDICATORS



May 2006

INTERNATIONAL TELECOMMUNICATION UNION

INTRODUCTION

Data are presented for 206 economies with populations greater than 40'000 and where sufficient data are available.

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, 1975-2004 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.

Communication data come from an 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. Other data are provided by the relevant international and national 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.
000s	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/ICT should be addressed to:

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Additional information about Telecommunication Indicators/ICT can be found 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>
Afghanistan	1	Ending 31.12	Asia	Estonia	124	Ending 31.12	Europe
Albania	59	Ending 31.12	Europe	Ethiopia	17	Ending 31.12	Africa
Algeria	60	Ending 31.12	Africa	Faroe Islands	164	Ending 31.12	Europe
Andorra	152	Ending 31.12	Europe	Fiji	78	Ending 31.12	Oceania
Angola	61	Ending 31.12	Africa	Finland	165	Ending 31.12	Europe
Antigua & Barbuda	113	Beginning 01.04	Americas	France	166	Ending 31.12	Europe
Argentina	114	Ending 30.09	Americas	French Guiana	167	Ending 31.12	Americas
Armenia	62	Ending 31.12	Asia	French Polynesia	168	Ending 31.12	Oceania
Aruba	153	Ending 31.12	Americas	Gabon	125	Ending 31.12	Africa
Australia	154	Ending 30.06	Oceania	Gambia	18	Beginning 01.04	Africa
Austria	155	Ending 31.12	Europe	Georgia	79	Ending 31.12	Asia
Azerbaijan	63	Ending 31.12	Asia	Germany	169	Ending 31.12	Europe
Bahamas	156	Ending 31.12	Americas	Ghana	19	Ending 31.12	Africa
Bahrain	157	Ending 31.12	Asia	Greece	170	Ending 31.12	Europe
Bangladesh	2	Ending 30.06	Asia	Greenland	171	Ending 31.12	Europe
Barbados	115	Beginning 01.04	Americas	Grenada	126	Ending 31.12	Americas
Belarus	64	Ending 31.12	Europe	Guadeloupe	127	Ending 31.12	Americas
Belgium	158	Ending 31.12	Europe	Guam	172	Ending 31.12	Oceania
Belize	116	Beginning 01.04	Americas	Guatemala	80	Ending 31.12	Americas
Benin	3	Ending 31.12	Africa	Guernsey	173	Ending 31.12	Europe
Bermuda	159	Beginning 01.04	Americas	Guinea	20	Ending 31.12	Africa
Bhutan	4	Ending 31.12	Asia	Guinea-Bissau	21	Ending 31.12	Africa
Bolivia	65	Ending 31.12	Americas	Guyana	81	Ending 31.12	Americas
Bosnia	66	Ending 31.12.	Europe	Haiti	22	Ending 31.12	Americas
Botswana	117	Beginning 01.04	Africa	Honduras	82	Ending 31.12	Americas
Brazil	67	Ending 31.12	Americas	Hong Kong, China	174	Beginning 01.04	Asia
Brunei Darussalam	160	Ending 31.12	Asia	Hungary	128	Ending 31.12	Europe
Bulgaria	68	Ending 31.12	Europe	Iceland	175	Ending 31.12	Europe
Burkina Faso	5	Ending 31.12	Africa	India	23	Beginning 01.04	Asia
Burundi	6	Ending 31.12	Africa	Indonesia	83	Ending 31.12	Asia
Cambodia	7	Ending 31.12	Asia	Iran (I.R.)	84	Beginning 22.03	Asia
Cameroon	8	Ending 31.12	Africa	Iraq	85	Ending 30.06	Asia
Canada	161	Ending 31.12	Americas	Ireland	176	Beginning 01.04	Europe
Cape Verde	69	Ending 31.12	Africa	Israel	177	Ending 31.12	Asia
Central African Rep.	9	Ending 31.12	Africa	Italy	178	Ending 31.12	Europe
Chad	10	Ending 31.12	Africa	Jamaica	86	Beginning 01.04	Americas
Chile	118	Ending 31.12	Americas	Japan	179	Beginning 01.04	Asia
China	70	Ending 31.12	Asia	Jersey	180	Ending 31.12	Europe
Colombia	71	Ending 31.12.	Americas	Jordan	87	Ending 31.12	Asia
Comoros	11	Ending 31.12.	Africa	Kazakhstan	88	Ending 31.12	Asia
Congo	12	Ending 31.12	Africa	Kenya	24	Ending 30.06	Africa
Costa Rica	119	Ending 31.12	Americas	Kiribati	89	Ending 31.12	Oceania
Côte d'Ivoire	13	Ending 31.12	Africa	Korea (Rep.)	181	Ending 31.12	Asia
Croatia	120	Ending 31.12	Europe	Kuwait	182	Ending 31.12	Asia
Cuba	72	Ending 31.12	Americas	Kyrgyzstan	25	Ending 31.12	Asia
Cyprus	162	Ending 31.12	Europe	Lao P.D.R.	26	Ending 31.12	Asia
Czech Republic	121	Ending 31.12	Europe	Latvia	129	Ending 31.12	Europe
D.P.R. Korea	14	Ending 31.12	Asia	Lebanon	130	Ending 31.12	Asia
D.R. Congo	15	Ending 31.12	Africa	Lesotho	27	Beginning 01.04	Africa
Denmark	163	Ending 31.12	Europe	Liberia	28	Ending 31.12	Africa
Djibouti	73	Ending 31.12	Africa	Libya	131	Ending 31.12	Africa
Dominica	122	Beginning 01.04	Americas	Lithuania	132	Ending 31.12	Europe
Dominican Rep.	74	Ending 31.12	Americas	Luxembourg	183	Ending 31.12	Europe
Ecuador	75	Ending 31.12	Americas	Macao, China	184	Ending 31.12	Asia
Egypt	76	Ending 30.06	Africa	Madagascar	29	Ending 31.12	Africa
El Salvador	77	Ending 31.12	Americas	Malawi	30	Ending 31.12	Africa
Equatorial Guinea	123	Ending 31.12	Africa	Malaysia	133	Ending 31.12	Asia
Eritrea	16	Ending 31.12	Africa	Maldives	90	Ending 31.12	Asia

<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>
Mali	31	Ending 31.12	Africa	Serbia and Montenegro	101	Ending 31.12	Europe
Malta	185	Ending 31.12	Europe	Seychelles	142	Beginning 01.04	Africa
Marshall Islands	91	Ending 31.12	Oceania	Sierra Leone	46	Ending 31.12	Africa
Martinique	186	Ending 31.12	Americas	Singapore	197	Beginning 01.04	Asia
Mauritania	32	Ending 31.12	Africa	Slovak Republic	143	Ending 31.12	Europe
Mauritius	134	Ending 31.12	Africa	Slovenia	198	Ending 31.12	Europe
Mayotte	135	Ending 31.12	Africa	Solomon Islands	47	Beginning 01.04	Oceania
Mexico	136	Ending 31.12	Americas	Somalia	48	Ending 31.12	Africa
Micronesia	92	Ending 31.12	Oceania	South Africa	144	Beginning 01.04	Africa
Moldova	33	Ending 31.12	Europe	Spain	199	Ending 31.12	Europe
Mongolia	34	Ending 31.12	Asia	Sri Lanka	102	Ending 31.12	Asia
Morocco	93	Ending 31.12	Africa	St. Kitts and Nevis	145	Beginning 01.04	Americas
Mozambique	35	Ending 31.12	Africa	St. Lucia	146	Beginning 01.04	Americas
Myanmar	36	Ending 31.12	Asia	St. Vincent	147	Beginning 01.04	Americas
Namibia	94	Ending 30.09	Africa	Sudan	49	Ending 31.12	Africa
Nepal	37	Ending 15.07	Asia	Suriname	103	Ending 31.12	Americas
Neth. Antilles	187	Ending 31.12	Americas	Swaziland	104	Beginning 01.04	Africa
Netherlands	188	Ending 31.12	Europe	Sweden	200	Ending 31.12	Europe
New Caledonia	189	Ending 31.12	Oceania	Switzerland	201	Ending 31.12	Europe
New Zealand	190	Beginning 01.04	Oceania	Syria	105	Ending 31.12	Asia
Nicaragua	38	Ending 31.12	Americas	Taiwan, China	202	Ending 31.12	Asia
Niger	39	Ending 31.12	Africa	Tajikistan	50	Ending 31.12	Asia
Nigeria	40	Ending 31.12	Africa	Tanzania	51	Ending 31.12	Africa
Northern Marianas	137	Ending 31.12	Oceania	TFYR Macedonia	106	Ending 31.12	Europe
Norway	191	Ending 31.12	Europe	Thailand	107	Ending 30.09	Asia
Oman	138	Ending 31.12	Asia	Togo	52	Ending 31.12	Africa
Pakistan	41	Ending 30.06	Asia	Tonga	108	Ending 31.12	Oceania
Palestine	95	Ending 31.12	Asia	Trinidad & Tobago	148	Beginning 01.04	Americas
Panama	139	Ending 31.12	Americas	Tunisia	109	Ending 31.12	Africa
Papua New Guinea	42	Ending 31.12	Oceania	Turkey	149	Ending 31.12	Europe
Paraguay	96	Ending 31.12	Americas	Turkmenistan	110	Ending 31.12	Asia
Peru	97	Ending 31.12	Americas	Uganda	53	Ending 30.06	Africa
Philippines	98	Ending 31.12	Asia	Ukraine	111	Ending 31.12	Europe
Poland	140	Ending 31.12	Europe	United Arab Emirates	203	Ending 31.12	Asia
Portugal	192	Ending 31.12	Europe	United Kingdom	204	Beginning 01.04	Europe
Puerto Rico	193	Ending 31.12	Americas	United States	205	Ending 31.12	Americas
Qatar	194	Ending 31.12	Asia	Uruguay	150	Ending 31.12	Americas
Réunion	195	Ending 31.12	Africa	Uzbekistan	54	Ending 31.12	Asia
Romania	99	Ending 31.12	Europe	Vanuatu	112	Ending 31.12	Oceania
Russia	141	Ending 31.12	Europe	Venezuela	151	Ending 31.12	Americas
Rwanda	43	Ending 31.12	Africa	Viet Nam	55	Ending 31.12	Asia
S. Tomé & Príncipe	44	Ending 31.12	Africa	Virgin Islands (US)	206	Ending 31.12	Americas
Samoa	100	Ending 31.12	Oceania	Yemen	56	Ending 31.12	Asia
Saudi Arabia	196	Ending 31.12	Asia	Zambia	57	Beginning 01.04	Africa
Senegal	45	Ending 31.12	Africa	Zimbabwe	58	Ending 30.06	Africa

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 national statistical offices or the United Nations (UN). *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. They are current price data in national currency converted to United States dollars by the method identified above. *Total telephone subscribers* refer to the sum of main telephone lines and cellular mobile subscribers (see below for definitions). *Total telephone subscribers per 100 inhabitants* is calculated by dividing the total 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. Many countries also include ISDN channels in main lines (see 9. ISDN and ADSL). *Main telephone lines per 100 inhabitants* is calculated by dividing the number of main lines by the population and multiplying by 100.

3. Mobile cellular subscribers

Mobile cellular 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. *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).

4. Information technology

Internet hosts refer to the number of computers directly connected 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 is assigned to economies based on the country code although this does not necessarily indicate that the host is actually physically located in the economy. In addition, all other hosts for which there are 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 are from Internet Software Consortium and RIPE (Réseaux IP Européens). *Internet Users* is based on nationally reported data. In some cases, surveys have been carried out that give a more precise figure for the number of Internet users. However surveys differ across countries in the age and frequency of use they cover. The reported figure for Internet users—which may refer to only users above a certain age—is divided by the total population and multiplied by 100 to obtain *users per 100 inhabitants*. Countries that do not have surveys generally base their estimates on derivations from reported Internet Service Provider subscriber counts, calculated by multiplying the number of subscribers by a multiplier. *PCs* shows the estimated number of Personal Computers (PCs), both in absolute numbers and in terms of PCs per 100 inhabitants. The figures for PCs come from the annual questionnaire supplemented by other sources.