The Little Data Book on Information and Communication Technology

Economic	and	social	context
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Sector structure

Sector efficiency and capacity

Sector performance

Access

Usage	
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Quality

Affordability

Trade

Applications





2017 THE LITTLE DATA BOOK ON INFORMATION AND COMMUNICATION TECHNOLOGY





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Contents

Acknowledgments
Prefacev
Data notes
Regional tables1
World 2
East Asia and Pacific
Europe and Central Asia 4
Latin America and the Caribbean5
Middle East and North Africa
North America
South Asia
Sub-Saharan Africa
Income group tables 10
Low income
Middle income
Lower middle income
Upper middle income
Low and middle income
High income
Country tables (in alphabetical order) 17
Notes
Glossary

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Preface

Since the late 1990s access to information and communication technologies (ICTs) has seen tremendous growth—driven primarily by the wireless technologies and liberalization of telecommunications markets. Mobile communications have evolved from simple voice and text services to diversified innovative applications and mobile broadband Internet. In 2016, there were more than 7.3 billion mobile-cellular subscriptions worldwide. Globally, 3.5 billion people were using the Internet, of which 2.5 billion were from developing countries. Mobile-broadband subscriptions have risen constantly to reach 3.6 billion, while the number of fixed-broadband subscriptions reached more than 884 million during the same period.

The impacts of ICTs cross all sectors. Research has shown that investment in information and communication technologies is associated with such economic benefits as higher productivity, lower costs, new economic opportunities, job creation, innovation, and increased trade. ICTs also help provide better services in health and education, and strengthen social cohesion.

The Little Data Book on Information and Communication Technology 2017 illustrates the progress of this revolution for 217 economies around the world. It provides comparable statistics on the sector for 2005 and 2015 across a range of indicators, enabling readers to readily compare economies. This book includes indicators covering the economic and social context, the structure of the information and communication technology sector, sector efficiency and capacity, and sector performance related to access, usage, quality, affordability, trade, and applications. The glossary contains definitions of the terms used in the tables.

For more information and other World Bank data publications, visit our data Web site at data.worldbank.org or the Web site of the Information and Communication Technologies Department at www.worldbank.org/ict.

For more statistics on information and communication technology infrastructure, access, and usage, as well as analytical reports such as the annual *Measuring the Information Society Report*, visit ITU's Web site at www.itu.int/en/ITU-D/Statistics/Pages/default.aspx and the ITU ICT Eye at www.itu.int/icteye.

Data notes

The data in this book are for 2010 and 2015 or the most recent year unless otherwise noted in the table or the glossary.

- Growth rates are proportional changes from the previous year unless otherwise noted.
- Regional aggregates include data for low- and middle-income economies only.
- Figures in italics indicate data for years or periods other than those specified.

Symbols used:

- . . indicates that data are not available or that aggregates cannot be calculated because of missing data.
- 0 or 0.0 indicates zero or small enough that the number would round to zero at the displayed number of decimal places.
 - \$ indicates current U.S. dollars.

Lettered notes on some country tables can be found in the notes on page 235.

Data are shown for economies with populations greater than 30,000 or for smaller economies if they are members of the World Bank or the ITU. The term country (used interchangeably with economy) does not imply political independence or official recognition by the World Bank or the ITU but refers to any economy for which the authorities report separate social or economic statistics.

Aggregates for groups of economies are based on the World Bank's regional and income classifications, and may differ from those published by the ITU. Because of missing data, aggregates should be treated as approximations of unknown totals or average values. The aggregation method for each indicator is noted in the glossary. Sums (s) are simple totals of available data. Weighted averages (w) are calculated using the value of the denominator or, in some cases, another indicator as the weight. Median (m) calculations are based on available data and exclude economies with populations below 1 million. For more information about aggregation methods visit datahelpdesk.worldbank.org.

The cutoff date for data is June 18, 2016.

Regional tables

The country composition of regions is based on the World Bank's analytical regions and may differ from common geographic usage.

East Asia and Pacific

American Samoa; Australia; Brunei Darussalam; Cambodia; China; Fiji; French Polynesia; Guam; Hong Kong SAR, China; Indonesia; Japan; Kiribati; Democratic People's Republic of Korea; Republic of Korea; Lao People's Democratic Republic; Macao SAR, China; Malaysia; Marshall Islands; Federated States of Micronesia; Mongolia; Myanmar; Nauru; New Caledonia; New Zealand; Northern Mariana Islands; Palau; Papua New Guinea; Philippines; Samoa; Singapore; Solomon Islands; Thailand; Timor-Leste; Tonga; Tuvalu; Vanuatu; Vietnam

Europe and Central Asia

Albania, Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Channel Islands, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Georgia, Germany, Gibraltar, Greece, Greenland, Hungary, Iceland, Ireland, Isle of Man, Italy, Kazakhstan, Kosovo, Kyrgyz Republic, Latvia, Liechtenstein, Lithuania, Luxembourg, former Yugoslav Republic of Macedonia, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, San Marino, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine, United Kingdom, Uzbekistan

Latin America and the Caribbean

Antigua and Barbuda, Argentina, Aruba, The Bahamas, Barbados, Belize, Bolivia, Brazil, British Virgin Islands, Cayman Islands, Chile, Colombia, Costa Rica, Cuba, Curaçao, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Sint Marrten (Dutch part), St. Kitts and Nevis, St. Lucia, St. Martin (French part), St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, Turks and Caicos Islands, Uruguay, República Bolivariana de Venezuela, Virgin Islands (U.S.)

Middle East and North Africa

Algeria, Bahrain, Djibouti, Arab Republic of Egypt, Islamic Republic of Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Malta, Morocco, Oman, Qatar, Saudi Arabia, Syrian Arab Republic, Tunisia, United Arab Emirates, West Bank and Gaza, Republic of Yemen

North America

Bermuda, Canada, United States

South Asia

Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka

Sub-Saharan Africa

Angola, Benin, Botswana, Burkina Faso, Burundi, Cabo Verde, Cameroon, Central African Republic, Chad, Comoros, Democratic Republic of Congo, Republic of Congo, Côte d'Ivoire, Equatorial Guinea, Eritrea, Ethiopia, Gabon, The Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, São Tomé and Príncipe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe

World

	2010	2015
Economic and social context		
Population (millions)	6,924	
Urban population (% of total) GNI per capita, World Bank Atlas method (\$)	9 355	54 10,433
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.3	2.6
Adult literacy rate (% ages 15 and older)	85	
Gross primary, secondary, and tertiary school enrollment (%)	71	74
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s) Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	2.7	2.4
Telecommunications investment (% of revenue)	18.4	18.8
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	17.8	14.3
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	76.5 7.9	98.6 11.3
Households with a computer (%)	36.0	44.9
Households with Internet access at home (%)	30.1	48.5
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	7.1	
Domestic mobile traffic (minutes/subscription/month)	207	166
Individuals using the Internet (%)	29.1	44.0
Quality		
Population covered by at least a 3G mobile network (%)		73
International Internet bandwidth (bit/s per Internet user)	30,636	57,311
Affordability		
Mobile-cellular sub-basket (\$ a month)	15.4 26.3	9.8 20.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	20.3 15.0	20.2
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	18.4	12.0
Trade		
ICT goods exports (% of total goods exports)	11.8	10.8
ICT goods imports (% of total goods imports)	12.7	11.6
ICT service exports (% of total service exports)	28.3	31.1
Applications		
Online service index (0-1, 1=highest presence)	0.26	0.36
Secure Internet servers (per million people)	154.4	208.7

East Asia & Pacific

Economic and social context 2,205 2,279 Urban population (millions) 2,205 2,279 Urban population (% of total) 52 57 GNI per capita, World Bank Atlas method (\$) 7,232 9,602 GOP growth, 2005-10 and 2010-15 (avg. annual %) 4.6 4.4 Adult literacy rate (% ages 15 and older) 95 Gross primary, secondary, and tertiary school enroliment (%) 72 77 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) Internet service Internet service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity 2.7 Telecommunications investment (% of fevenue) 19.1 Sector performance 2.2.3 17.3 Mobile-cellular telephone subscriptions (per 100 people) 73.3 17.4 Fixed-telephone subscriptions (per 100 people) 9.7 15.8 Households with a computer (%) 34.2 49.8 Usage 11.1 <th></th> <th>2010</th> <th>2015</th>		2010	2015
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Fixed-telephone subscriptions (per 100 people) 22.3 17.3 Mobile-cellular telephone subscriptions (per 100 people) 73.7 104.2 Fixed-broadband subscriptions (per 100 people) 9.7 15.8 Households with a computer (%) 37.3 47.7 Households with Internet access at home (%) 28.8 55.5 Usage Int'l. voice traffic, total (minutes/subscription/month) 3.2 2.2 Domestic mobile traffic (minutes/subscription/month) 34.2 49.8 Quality Population covered by at least a 3G mobile network (%) 65 International Internet bandwidth (bit/s per Internet user) 12,974 37,552 Affordability Mobile-cellular sub-basket (\$ a month) 8.8 6.8 Fixed-broadband sub-basket (\$ a month) 60 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 61 Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 10.7 ICT goods imports (% of total goods imports) 16.7 26.3 26.3 Applications 0.14 0.35	•		
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Individuals using the Internet (%) 34.2 49.8 Quality Population covered by at least a 3G mobile network (%) 65 International Internet bandwidth (bit/s per Internet user) 12,974 37,552 Affordability Mobile-cellular sub-basket (\$ a month) 8.8 6.8 Fixed-broadband sub-basket (\$ a month) 23.1 20.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 27.9 11.0 Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35			
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Population covered by at least a 3G mobile network (%) 65 International Internet bandwidth (bit/s per Internet user) 12,974 37,552 Affordability Mobile-cellular sub-basket (\$ a month) 8.8 6.8 Fixed-broadband sub-basket (\$ a month) 23.1 20.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 6.0 Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 16.7 26.3 Applications Online service index (0-1, 1=highest presence) 0.14 0.35 0.14 0.35	Individuals using the Internet (%)	34.2	49.8
International Internet bandwidth (bit/s per Internet user) 12,974 37,552 Affordability Mobile-cellular sub-basket (\$ a month) 8.8 6.8 Fixed-broadband sub-basket (\$ a month) 23.1 20.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 6.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 27.9 11.0 Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35			6E
Affordability 8.8 6.8 Mobile-cellular sub-basket (\$ a month) 23.1 20.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.0 Mobile-b'band, prepaid handset-based, 1 GB (\$ a month) 6.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 6.0 Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35		12.074	
Mobile-cellular sub-basket (\$ a month) 8.8 6.8 Fixed-broadband sub-basket (\$ a month) 23.1 20.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 27.9 11.0 Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35		12,974	37,332
Fixed-broadband sub-basket (\$ a month) 23.1 20.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 27.9 11.0 Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35		8.8	6.8
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 27.9 11.0 Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35		23.1	20.5
Trade ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35			6.0
ICT goods exports (% of total goods exports) 24.5 22.8 ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications Online service index (0-1, 1=highest presence) 0.14 0.35	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	27.9	11.0
ICT goods imports (% of total goods imports) 20.0 19.1 ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35			
ICT service exports (% of total service exports) 16.7 26.3 Applications 0.14 0.35			
Online service index (0-1, 1=highest presence) 0.14 0.35			
Online service index (0-1, 1=highest presence) 0.14 0.35	Applications		
		0.14	0.35

Europe & Central Asia

	2010	2015
Economic and social context		
Population (millions)	889	908
Urban population (% of total)	70	71
GNI per capita, <i>World Bank Atlas</i> method (\$)	24,350	,
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	1.0 99	1.0
Gross primary, secondary, and tertiary school enrollment (%)	88	92
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	2.1	1.7
Telecommunications investment (% of revenue)	16.2	19.1
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	37.5	32.7
Mobile-cellular telephone subscriptions (per 100 people)	120.1	126.9
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	19.0 63.7	24.7 76.3
Households with a computer (%) Households with Internet access at home (%)	58.2	77.4
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		
Domestic mobile traffic (minutes/subscription/month)	119	149
Individuals using the Internet (%)	56.1	71.7
Quality		
Population covered by at least a 3G mobile network (%)	85	88
International Internet bandwidth (bit/s per Internet user)	68,905	122,145
Affordability	21.3	9.7
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	21.3	9.7 14.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.8	6.6
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.9	8.3
Trade		
ICT goods exports (% of total goods exports)	5.4	4.4
ICT goods imports (% of total goods imports)	8.6	7.2
ICT service exports (% of total service exports)	32.3	35.4
Applications	0.00	
Online service index (0-1, 1=highest presence)	0.39	0.55
Secure Internet servers (per million people)	383.4	616.9

Latin America & Caribbean

Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3	99 78 39 .5 92 32 1 3	633 80 8,939 2.0 83 15.7
Urban population (% of total) 7,98 GNI per capita, World Bank Atlas method (\$) 7,98 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3 Adult literacy rate (% ages 15 and older) 9 Gross primary, secondary, and tertiary school enrollment (%) 8 Sector structure 5 Separate telecommunications/ICT regulator 5 Status of main fixed-line telephone operator 1 Level of competition (competition, partial comp., monopoly) 1 International gateway(s) Mobile telephone service Internet service 1 Foreign ownership (not allowed, restricted, allowed) 8 Sector efficiency and capacity 3 Telecommunications investment (% of GDP) 3 Telecommunications investment (% of revenue) 18	.1	80 8,939 2.0 83
GNI per capita, World Bank Atlas method (\$) 7,96 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3 Adult literacy rate (% ages 15 and older) 9 Gross primary, secondary, and tertiary school enrollment (%) 8 Sector structure 9 Separate telecommunications/ICT regulator 9 Status of main fixed-line telephone operator 1 Level of competition (competition, partial comp., monopoly) 1 International gateway(s) Mobile telephone service Internet service 1 Foreign ownership (not allowed, restricted, allowed) 8 Sector efficiency and capacity 7 Telecommunications investment (% of revenue) 18	.1	8,939 2.0 83
GDP growth, 2005-10 and 2010-15 (avg. annual %) 3 Adult literacy rate (% ages 15 and older) 3 Gross primary, secondary, and tertiary school enrollment (%) 3 Sector structure 5 Separate telecommunications/ICT regulator 5 Status of main fixed-line telephone operator 1 Level of competition (competition, partial comp., monopoly) 1 International gateway(s) Mobile telephone service Internet service 1 Foreign ownership (not allowed, restricted, allowed) 8 Sector efficiency and capacity 7 Telecommunications investment (% of GDP) 3 Telecommunications investment (% of revenue) 18	.5 32 .1	2.0 83
Adult literacy rate (% ages 15 and older) Sector structure Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18	.1	
Gross primary, secondary, and tertiary school enrollment (%) 8 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications investment (% of GDP) 3	.1	
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue)		 15.7
Sector efficiency and capacity Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
Telecommunications revenue (% of GDP) 3 Telecommunications investment (% of revenue) 18		 15.7
Telecommunications investment (% of revenue) 18		 15.7
	.3	15.7
Sector performance		
-		
Access		
Fixed-telephone subscriptions (per 100 people) 17		17.4
Mobile-cellular telephone subscriptions (per 100 people) 96	.4 .7	110.4 10.5
Fixed-broadband subscriptions (per 100 people)6Households with a computer (%)30		47.0
Households with a computer (%) 22		43.4
Usage Int'l. voice traffic, total (minutes/subscription/month)		
	90	
Individuals using the Internet (%) 34	.7	54.5
Quality		
Population covered by at least a 3G mobile network (%)		88
International Internet bandwidth (bit/s per Internet user) 13,43	30	43,386
Affordability		
	.9	13.6
Fixed-broadband sub-basket (\$ a month) 24	.9	21.2
	.9	12.9
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 17	.8	14.4
Trade		
	.4	6.3
	.4	11.1
ICT service exports (% of total service exports)		
Applications		
Online service index (0-1, 1=highest presence) 0.2		0.37
Secure Internet servers (per million people) 28	.3	56.6

Middle East & North Africa

Economic and social context Population (millions) 385 424 Urban population (% of total) 63 64 GNI per capital, World Bank Attas method (\$) 6,943 8,207 GDP growth, 2005-10 and 2010-15 (avg. annual %) 4,7 3.0 Adult Iteracy rate (% ages 15 and older) 80 Gross primary, secondary, and tertiary school enrollment (%) 74 78 Sector structure Separate telecommunications/ICI regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Nobile telephone service International gateway(s) Mobile telephone service International gateway(s) Nobile competition (competition (competition)) 2.9 2.2 Telecommunications revenue (% of GDP) 2.9 2.2 113.0 Fixed-telephone subscriptions (per 100 people) 16.7 15.3 Mobile-cellular telephone subscription/month) 7.1 12.7 Domestic mobile traffic, total (minutes/s		2010	2015
Urban population (% of total)6364GNI per capita, World Bank Atlas method (\$)6.9438.207GDP growth, 2005-10 and 2010-15 (avg. annual %)4.73.0Adult itteracy rate (% ages 15 and older)80Gross primary, secondary, and tertiary school enrollment (%)7478Sector structureSector structureSector structureSeparate telecommunications/ICT regulatorStatus of main fixed-line telephone operatorLevel of competition (competition, partial comp., monopoly)Internet serviceInternet serviceInternet serviceForeign ownership (not allowed, restricted, allowed)2.92.2Felecommunications revenue (% of GDP)2.92.2Telecommunications investment (% of revenue)20.8Sector performanceAccess7.115.3Mobile-cellular telephone subscriptions (per 100 people)16.715.3Mobile-cellular telephone subscriptions (per 100 people)2.67.1Int1. voice traffic, total (minutes/subscription/month)7.112.7Domestic mobile traffic (minutes/subscription/month)7.112.7Domestic mobile traffic (minutes/subscription/month)5.176International Internet bandwidth (bit/s per Internet user)8,88529,072AffordabilityMobile-cellular sub-basket (\$ a month)2.2.10.2Individuals using the Internet (%)5.176International Internet bandwidth (bit/s per Internet user)8,88529,072AffordabilityMobile-cellul	Economic and social context		
GNI per capita, World Bank Atlas method (\$) 6,943 8,207 GDP growth, 2005-10 and 2010-15 (avg, annual %) 4.7 3.0 Adult literacy rate (% ages 15 and older) 80 Gross primary, secondary, and tertiary school enroliment (%) 74 78 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service International gateway(s) Mobile telephone service International gateway(s) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity 2.9 2.2 2.2 Telecommunications investment (% of revenue) 20.8 Sector performance Access 115.3 Mobile-cellular telephone subscriptions (per 100 people) 9.2 113.0 Pixed-tradend subscriptions (per 100 people) 2.6 7.1 Households with a computer (%) 34.1 49.8 Households with laternet access at home (%) 25.0 48.5 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals usi	Population (millions)	385	424
GDP growth, 2005-10 and 2010-15 (avg. annual %) 4.7 3.0 Adult literacy rate (% ages 15 and older) 80 Gross primary, secondary, and tertiary school enrollment (%) 74 78 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) 2.9 2.2 Elecommunications investment (% of revenue) 20.8 Sector performance Access 5 Fixed-telephone subscriptions (per 100 people) 16.7 15.3 Mobile-cellular telephone subscriptions (per 100 people) 2.6 7.1 Households with a computer (%) 34.1 49.8 Households with a laternet access at home (%) 25.0 48.5 Usage Int'1. voice traffic, total (minutes/subscription/month) 7.1 12.7 Domestic mobile traffic (minutes/subscription/month) 7.1 12.7 12.7 Denglithon covered by at least a 3G mobile network (%)<	Urban population (% of total)	63	64
Adult literacy rate (% ages 15 and older) 80 Gross primary, secondary, and tertiary school enrollment (%) 74 78 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity 2.9 2.2 Telecommunications revenue (% of GDP) 2.9 2.2 Telecommunications investment (% of revenue) 20.8 . Sector performance Access . Access Fixed-telephone subscriptions (per 100 people) 16.7 15.3 Mobile-cellular telephones subscriptions (per 100 people) 2.6 7.1 Households with a computer (%) 34.1 49.8 Households with Internet access at home (%) 25.0 48.5 Usage Int'. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) 24.9 43.7 76 Muscholds with nement (%) 2.1 <t< td=""><td>GNI per capita, World Bank Atlas method (\$)</td><td>6,943</td><td>8,207</td></t<>	GNI per capita, World Bank Atlas method (\$)	6,943	8,207
Gross primary, secondary, and tertiary school enrollment (%) 74 78 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) 2.9 2.2 Telecommunications revenue (% of GDP) 2.9 2.2 Telecommunications investment (% of revenue) 20.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 16.7 15.3 Mobile-cellular telephone subscriptions (per 100 people) 2.6 7.1 Households with a computer (%) 25.0 48.5 Usage Int'l. voice traffic, total (minutes/subscription/month) 7.1 12.7 Domestic mobile traffic (minutes/subscription/month) Int'l. voice traffic, total (minutes/subscription/month) In'l. voice traffic (notal least a 3G mobile network (%) 51 76 <	GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.7	3.0
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 2.2 Telecommunications investment (% of revenue) 20.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 16.7 Fixed-telephone subscriptions (per 100 people) 2.6 Fixed-telephone subscriptions (per 100 people) 25.0 Aks 48.5 Usage 11.1 Int'l. voice traffic, total (minutes/subscription/month) 7.1 Domestic mobile traffic (minutes/subscription/month) 7.1 Internet ional Internet bandwidth (bit/s per Internet user) 8,885 Quality Population covered by at least a 3G mobile network (%) 51 76 International Internet bandwidth (bit/s per Internet user) 8,885 29,072 Affordability 10.2 10.2	Adult literacy rate (% ages 15 and older)		
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Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 2.2 Telecommunications investment (% of revenue) 20.8 Sector performance Access Mobile-cellular telephone subscriptions (per 100 people) 16.7 15.3 Mobile-cellular telephone subscriptions (per 100 people) 2.6 7.1 Households with a computer (%) 34.1 49.8 Households with internet access at home (%) 25.0 48.5 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) 24.9 43.7 43.7 Quality Population covered by at least a 3G mobile network (%) 51 76 International Internet bandwidth (bit/s per Internet user) 8.885 29	Sector structure		
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Online service index (0-1, 1=highest presence) 0.27 0.55			
Online service index (0-1, 1=highest presence) 0.27 0.55	Applications		
	••	0.27	0.55
	Secure Internet servers (per million people)	17.5	29.2

North America

	2010	2015
Economic and social context		
Population (millions)	343	357
Urban population (% of total)	81	82
GNI per capita, World Bank Atlas method (\$)	,	54,217
GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.5	2.0
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 96	 95
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	3.3	3.3
Telecommunications investment (% of revenue)	17.0	31.9
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	48.5	38.2
Mobile-cellular telephone subscriptions (per 100 people)	89.8	114.0
Fixed-broadband subscriptions (per 100 people)	27.5	32.0
Households with a computer (%)	76.2	87.1
Households with Internet access at home (%)	71.8	82.6
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	16.8	
Domestic mobile traffic (minutes/subscription/month)	348	324
Individuals using the Internet (%)	72.5	75.9
Quality		
Population covered by at least a 3G mobile network (%)	98	100
International Internet bandwidth (bit/s per Internet user)		89.316
	,	
Affordability	27.0	20.4
Mobile-cellular sub-basket (\$ a month)	37.3 23.1	30.4 32.9
Fixed-broadband sub-basket (\$ a month)	23.1 54.4	32.9
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	40.3	28.5
Trade	0.7	7.0
ICT goods exports (% of total goods exports)	8.7 13.4	7.3 12.0
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	13.4 24.9	24.4
	-	
Applications	0.01	0.02
Online service index (0-1, 1=highest presence)	0.91	0.93
Secure Internet servers (per million people)	1,425.8	1,010.7

South Asia

	2010	2015
Economic and social context		
Population (millions)	1,629	1,744
Urban population (% of total)	31	33
GNI per capita, <i>World Bank Atlas</i> method (\$)	1,191	1,533
GDP growth, 2005-10 and 2010-15 (avg. annual %)	7.1 67	6.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	63	 67
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	2.4	1.8
Telecommunications investment (% of revenue)	12.2	16.2
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	2.9	1.9 78.4
Mobile-cellular telephone subscriptions (per 100 people)	59.6 0.8	78.4 1.4
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.8 6.6	1.4
Households with Internet access at home (%)	4.2	19.0
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	7.1	9.0
Domestic mobile traffic (minutes/subscription/month)	129	174
Individuals using the Internet (%)	7.2	23.6
Quality		
Population covered by at least a 3G mobile network (%)	1	
International Internet bandwidth (bit/s per Internet user)	5,357	5,112
Affordability		
Mobile-cellular sub-basket (\$ a month)	2.8	2.3
Fixed-broadband sub-basket (\$ a month)	8.3	6.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	5.3	3.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.6	4.9
Trade		
ICT goods exports (% of total goods exports)	1.7	0.9
ICT goods imports (% of total goods imports)	5.7	6.0
ICT service exports (% of total service exports)	63.2	63.2
Applications		
Online service index (0-1, 1=highest presence)	0.24	0.33
Secure Internet servers (per million people)	1.8	5.8

Sub-Saharan Africa

	2010	2015
Economic and social context		
Population (millions)	874	1,001
Urban population (% of total)	35	38
GNI per capita, World Bank Atlas method (\$)	1,281	1,628
GDP growth, 2005–10 and 2010–15 (avg. annual %)	5.4	4.1
Adult literacy rate (% ages 15 and older)	60 58	
Gross primary, secondary, and tertiary school enrollment (%)	50	59
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	3.4	
Telecommunications investment (% of revenue)	23.1	
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	1.5	1.1
Mobile-cellular telephone subscriptions (per 100 people)	44.4	75.7
Fixed-broadband subscriptions (per 100 people)	0.2	0.5
Households with a computer (%)	5.6 4.3	10.0 14.5
Households with Internet access at home (%)	4.5	14.0
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	5.1	
Domestic mobile traffic (minutes/subscription/month)	56	68
Individuals using the Internet (%)	9.8	22.4
Quality		
Population covered by at least a 3G mobile network (%)		61
International Internet bandwidth (bit/s per Internet user)	30,798	26,590
Affordability		
Mobile-cellular sub-basket (\$ a month)	16.3	8.7
Fixed-broadband sub-basket (\$ a month)	50.1	31.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	19.7	8.5
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		14.0
Trade		
ICT goods exports (% of total goods exports)	0.5	0.8
ICT goods imports (% of total goods imports)	6.6	5.4
ICT service exports (% of total service exports)	15.7	17.7
Applications		
Online service index (0-1, 1=highest presence)	0.10	0.15
Secure Internet servers (per million people)	4.8	9.9
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Income group tables

For operational and analytical purposes the World Bank's main criterion for classifying economies is gross national income (GNI) per capita. Every economy in *The Little Data Book on Information and Communication Technology* is classified as low income, middle income, or high income. Note: Classifications are fixed during the World Bank's fiscal year (ending on June 30), thus countries remain in the categories in which they are classified irrespective of any revisions to their per capita income data.

Low-income economies are those with a GNI per capita of \$1,025 or less in 2015.

Lower middle-income economies are those with a GNI per capita between \$1,026 and \$4,035.

Upper middle-income economies are those with a GNI per capita between \$4,036 and \$12,475.

High-income economies are those with a GNI per capita of \$12,476 or more.

Low income

	2010	2015
Economic and social context		
Population (millions)	557	638
Urban population (% of total)	29	31
GNI per capita, World Bank Atlas method (\$)	502 5.8	620
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	5.8 57	5.4
Gross primary, secondary, and tertiary school enrollment (%)	58	60
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)		
Telecommunications investment (% of revenue)		
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	1.0	0.9
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	28.7 0.1	60.0 0.3
Households with a computer (%)	2.3	4.8
Households with Internet access at home (%)	1.7	7.1
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		
Domestic mobile traffic (minutes/subscription/month)	45	49
Individuals using the Internet (%)	3.3	9.5
Quality		54
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 1,753	51 4.245
	1,755	4,245
Affordability Mobile-cellular sub-basket (\$ a month)	14.2	9.4
Fixed-broadband sub-basket (\$ a month)	48.5	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.7	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		10.8
Trade		
ICT goods exports (% of total goods exports)		
ICT goods imports (% of total goods imports)	4.5	3.4
ICT service exports (% of total service exports)		
Applications	0.08	0.11
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.08	1.5
	0.0	

Middle income

	2010	2015
Economic and social context		
Population (millions)	5,212	5,521
Urban population (% of total)	48	51
GNI per capita, World Bank Atlas method (\$)	3,616	4,925
GDP growth, 2005–10 and 2010–15 (avg. annual %)	6.2	4.7
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	83 69	 73
Sector structure Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	2.6	2.1
Telecommunications investment (% of revenue)	19.2	
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	13.0	10.1
Mobile-cellular telephone subscriptions (per 100 people)	74.4	97.5
Fixed-broadband subscriptions (per 100 people)	4.5	8.3
Households with a computer (%)	24.2	34.7
Households with Internet access at home (%)	17.1	39.0
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	4.2	4.7
Domestic mobile traffic (minutes/subscription/month)	199	164
Individuals using the Internet (%)	22.3	39.8
Quality		
Population covered by at least a 3G mobile network (%)		68
International Internet bandwidth (bit/s per Internet user)	9,178	20,739
Affordability		
Mobile-cellular sub-basket (\$ a month)	11.9	8.0
Fixed-broadband sub-basket (\$ a month)	19.8	15.0
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.1 15.4	7.5 10.9
	10.1	10.0
Trade ICT goods exports (% of total goods exports)	14.6	13.9
ICT goods imports (% of total goods imports)	14.0	13.9
ICT service exports (% of total service exports)	25.9	27.0
Applications		
Online service index (0-1, 1=highest presence)	0.25	0.31
Secure Internet servers (per million people)	7.9	20.2

Lower middle income

	2010	2015
Economic and social context		
Population (millions)	2,719	2,927
Urban population (% of total)	37	39
GNI per capita, World Bank Atlas method (\$)	1,531	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	6.1 73	5.4
Gross primary, secondary, and tertiary school enrollment (%)	65	68
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	2.5	
Telecommunications investment (% of revenue)	20.6	
Sector performance		
Access	5.0	0.5
Fixed-telephone subscriptions (per 100 people)	5.6	3.5 90.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	67.6 1.0	90.5 1.9
Households with a computer (%)	1.0	1.9
Households with Internet access at home (%)	7.0	24.3
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	7.4	7.5
Domestic mobile traffic (minutes/subscription/month)	113	152
Individuals using the Internet (%)	11.8	28.6
Quality		
Population covered by at least a 3G mobile network (%)		
International Internet bandwidth (bit/s per Internet user)	5,468	10,372
Affordability		
Mobile-cellular sub-basket (\$ a month)	10.0	6.9
Fixed-broadband sub-basket (\$ a month)	26.7	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.9	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.0	10.0
Trade		
ICT goods exports (% of total goods exports)	3.9	5.7
ICT goods imports (% of total goods imports)	7.3	7.6
ICT service exports (% of total service exports)	44.1	48.0
Applications		
Online service index (0-1, 1=highest presence)	0.18	0.26
Secure Internet servers (per million people)	2.4	7.4
		_

Upper middle income

Economic and social context Population (millions) 2,493 2,594 Wrban population (% of total) 60 64 GNIP er capital, World Bank Aldas method (\$) 5,889 8,186 GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.2 4.5 Adult literacy rate (% ages 15 and older) 94 Gross primary, secondary, and tertiary school enrollment (%) 75 81 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications investment (% of GDP) 2.7 2.1 Telecommunications incyscriptions (per 100 people) 8.1 15.4 Mobile-cellular telephone subscriptions (per 100 people) 8.1 15.4 Households with internet access at home (%) 25.1 52.2 Usage Int!. voice traffic, total (minutes/subscription/month) 2.6 2.7 Individuals using the Internet (%) .		2010	2015
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Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.7 Telecommunications revenue (% of GDP) 2.9 Sector performance Access Fixed-telephone subscriptions (per 100 people) 81.7 Mobile-cellular telephone subscriptions (per 100 people) 81.7 Mobile-cellular telephone subscriptions (per 100 people) 81.7 Fixed-broadband subscriptions (per 100 people) 81.7 Mobile-cellular telephone subscription/month) 2.6 Usage 101. Int'l. voice traffic, total (minutes/subscription/month) 2.6 Quality . 69 Population covered by at least a 3G mobile network (%) . 69 International Internet bandwidth (bit/s per Internet user) 10,564 26,098 Affordability 18.5	Gross primary, secondary, and tertiary school enrollment (%)	75	81
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.7 Telecommunications investment (% of revenue) 18.4 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 81.7 Mobile-cellular telephone subscriptions (per 100 people) 81.7 Neuseholds with a computer (%) 35.7 Households with a computer (%) 35.7 Domestic mobile traffic (ninutes/subscription/month) 2.6 2.3 Domestic mobile traffic (ninutes/subscription/month) 2.6 2.3 Domestic mobile traffic (minutes/subscription/month) 2.6 2.7 Quality Population covered by at least a 3G mobile network (%) 69 International Internet bandwidth (bit/s per Internet user) 10,564 26,098 Afforclability Mobile-cellular sub-basket (Sector structure		
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Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.7 2.1 Telecommunications investment (% of revenue) 18.4 18.8 Sector performance Access 5 Fixed-telephone subscriptions (per 100 people) 81.7 105.1 Fixed-telephone subscriptions (per 100 people) 81.7 105.1 Fixed-telephone subscriptions (per 100 people) 81.7 105.1 Households with a computer (%) 35.7 48.7 Households with Internet access at home (%) 25.1 52.2 Usage 1nt'l. voice traffic, total (minutes/subscription/month) 2.6 2.3 Domestic mobile traffic (minutes/subscription/month) 2.6 2.3 Individuals using the Internet (%) 33.6 52.1 Quality . 69 International Internet bandwidth (bit/s per Internet user) 10,564 26,098 Affordability . 69 Mobile-cellular sub-basket (\$ a month) 15.4 8.5 Fixed-broadband sub-basket (\$ a month) 16.2 7.7 Mobile-cellular sub-basket (\$ a month) 16.2 7.7 Mobile-b'band, prepaid			
Telecommunications revenue (% of GDP) 2.7 2.1 Telecommunications investment (% of revenue) 18.4 18.8 Sector performance Access Access Fixed-telephone subscriptions (per 100 people) 20.9 17.3 Mobile-cellular telephone subscriptions (per 100 people) 81.7 105.1 Fixed-telphone subscriptions (per 100 people) 8.1 15.4 Households with a computer (%) 35.7 48.7 Households with Internet access at home (%) 25.1 52.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 2.6 2.3 Domestic mobile traffic (minutes/subscription/month) 273 173 Individuals using the Internet (%) 33.6 52.1 Quality . 69 Population covered by at least a 3G mobile network (%) . 69 International Internet bandwidth (bit/s per Internet user) 10.564 26,098 Affordability . 69 15.5 Mobile-cellular sub-basket (\$ a month) 15.4 8.5 Fixed-broadband sub-basket (\$ a month) 15.6 11.1 Trade . .	Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Telecommunications investment (% of revenue)18.418.8Sector performanceAccess20.917.3Fixed-telephone subscriptions (per 100 people)81.7105.1Fixed-broadband subscriptions (per 100 people)81.7105.1Fixed-broadband subscriptions (per 100 people)81.715.4Households with a computer (%)35.748.7Households with Internet access at home (%)25.152.2Usage111.262.3Domestic mobile traffic (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)2.62.3Quality910,56426,098Affordability69International Internet bandwidth (bit/s per Internet user)10,56426,098Affordability15.48.5Mobile-cellular sub-basket (\$ a month)15.48.5Nobile-b'band, prepaid handset-based, 500 MB (\$ a month)16.27.7Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)15.611.1Trade17.115.715.214.4ICT goods exports (% of total goods exports)15.125.7Applications15.125.725.7Applications0.280.37	Sector efficiency and capacity		
Sector performanceAccessFixed-telephone subscriptions (per 100 people)20.917.3Mobile-cellular telephone subscriptions (per 100 people)81.7105.1Fixed-broadband subscriptions (per 100 people)8.115.4Households with a computer (%)35.748.7Households with nternet access at home (%)25.152.2UsageInt'l. voice traffic, total (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)2.73173Individuals using the Internet (%)33.652.1Quality69International Internet bandwidth (bit/s per Internet user)10,56426,098Affordability15.48.5Fixed-broadband sub-basket (\$ a month)16.27.7Mobile-cellular sub-basket (\$ a month)16.27.7Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)15.611.1TradeInternational Internet (%)15.125.7Applications15.125.725.7Applications0.280.370.28Online service index (0-1, 1=highest presence)0.280.37	Telecommunications revenue (% of GDP)	2.7	2.1
AccessFixed-telephone subscriptions (per 100 people)20.917.3Mobile-cellular telephone subscriptions (per 100 people)81.7105.1Fixed-broadband subscriptions (per 100 people)81.115.4Households with a computer (%)35.748.7Households with Internet access at home (%)25.152.2Usage111.1100100Int'l. voice traffic, total (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)2.73173Individuals using the Internet (%)33.652.1Quality10,56426,098Affordability10,56426,098Affordability15.48.5Nobile-cellular sub-basket (\$ a month)15.48.5Fixed-broadband sub-basket (\$ a month)15.611.1Trade1015.611.1ICT goods exports (% of total goods exports)15.115.7ICT goods imports (% of total goods imports)15.125.7Applications0.280.37Online service index (0-1, 1=highest presence)0.280.37	Telecommunications investment (% of revenue)	18.4	18.8
Fixed-telephone subscriptions (per 100 people)20.917.3Mobile-cellular telephone subscriptions (per 100 people)81.7105.1Fixed-toradband subscriptions (per 100 people)8.115.4Households with a computer (%)35.748.7Households with Internet access at home (%)25.152.2UsageInt'l. voice traffic, total (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)273173Individuals using the Internet (%)33.652.1Quality69Population covered by at least a 3G mobile network (%)69International Internet bandwidth (bit/s per Internet user)10.56426.098AffordabilityMobile-cellular sub-basket (\$ a month)15.48.5Fixed-broadband sub-basket (\$ a month)16.27.7Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)15.611.1TradeICT goods exports (% of total goods exports)17.115.7ICT goods imports (% of total goods imports)15.125.7Applications0.280.37Online service index (0-1, 1=highest presence)0.280.37	Sector performance		
Mobile-cellular telephone subscriptions (per 100 people)81.7105.1Fixed-broadband subscriptions (per 100 people)8.115.4Households with a computer (%)35.748.7Households with Internet access at home (%)25.152.2UsageInt'l. voice traffic, total (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)273173Individuals using the Internet (%)33.652.1QualityPopulation covered by at least a 3G mobile network (%).Population covered by at least a 3G mobile network (%).69International Internet bandwidth (bit/s per Internet user)10,56426,098AffordabilityMobile-cellular sub-basket (\$ a month)15.48.5Nobile-b'band, prepaid handset-based, 500 MB (\$ a month)16.27.7Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)15.611.1TradeICT goods exports (% of total goods exports)17.115.7ICT goods imports (% of total goods imports)15.125.7Applications0.280.37Online service index (0-1, 1=highest presence)0.280.37	-		
Fixed-broadband subscriptions (per 100 people)8.115.4Households with a computer (%)35.748.7Households with Internet access at home (%)25.152.2UsageInt'l. voice traffic, total (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)2.73173Individuals using the Internet (%)33.652.1QualityPopulation covered by at least a 3G mobile network (%)International Internet bandwidth (bit/s per Internet user)10,56426,098AffordabilityMobile-cellular sub-basket (\$ a month)15.48.5Fixed-broadband sub-basket (\$ a month)16.27.7Mobile-b'band, prepaid handset-based, 10 GB (\$ a month)15.611.1TradeICT goods exports (% of total goods exports)17.115.7ICT goods imports (% of total goods imports)15.125.7ApplicationsOnline service index (0-1, 1=highest presence)0.280.37	Fixed-telephone subscriptions (per 100 people)	20.9	17.3
Households with a computer (%)35.748.7Households with Internet access at home (%)25.152.2Usage Int'L. voice traffic, total (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)273173Individuals using the Internet (%)33.652.1Quality933.652.1Population covered by at least a 3G mobile network (%)69International Internet bandwidth (bit/s per Internet user)10,56426,098Affordability Mobile-cellular sub-basket (\$ a month)15.48.5Fixed-broadband sub-basket (\$ a month)16.27.7Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)15.611.1Trade ICT goods exports (% of total goods exports)17.115.7ICT goods imports (% of total goods imports)15.125.7Applications Online service index (0-1, 1=highest presence)0.280.37	Mobile-cellular telephone subscriptions (per 100 people)	81.7	105.1
Households with Internet access at home (%)25.152.2Usage Int'l. voice traffic, total (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)273173Individuals using the Internet (%)33.652.1Quality Population covered by at least a 3G mobile network (%)69International Internet bandwidth (bit/s per Internet user)10,56426,098Affordability Mobile-cellular sub-basket (\$ a month)15.48.5Fixed-broadband sub-basket (\$ a month)16.27.7Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)16.27.7Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)15.611.1Trade ICT goods exports (% of total goods exports)15.115.7ICT goods imports (% of total goods imports)15.125.7Applications Online service index (0-1, 1=highest presence)0.280.37	Fixed-broadband subscriptions (per 100 people)	8.1	15.4
Usage 2.6 2.3 Int'l. voice traffic, total (minutes/subscription/month) 2.73 173 Individuals using the Internet (%) 33.6 52.1 Quality 33.6 52.1 Quality 10,564 26,098 Affordability 10,564 26,098 Affordability 10,564 26,098 Affordability 15.4 8.5 Fixed-broadband sub-basket (\$ a month) 15.4 8.5 Fixed-broadband sub-basket (\$ a month) 16.2 7.7 Mobile-cellular sub-basket (\$ a month) 16.2 7.7 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade 10 10 15.2 14.4 ICT goods imports (% of total goods imports) 15.1 25.7 Applications 0.28 0.37 Online service index (0-1, 1=highest presence) 0.28 0.37	Households with a computer (%)	35.7	48.7
Int'l. voice traffic, total (minutes/subscription/month)2.62.3Domestic mobile traffic (minutes/subscription/month)273173Individuals using the Internet (%)33.652.1QualityPopulation covered by at least a 3G mobile network (%)0 International Internet bandwidth (bit/s per Internet user)10,56426,098AffordabilityMobile-cellular sub-basket (\$ a month)15.48.5Fixed-broadband sub-basket (\$ a month)16.27.7Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)16.27.7Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)15.611.1TradeICT goods exports (% of total goods exports)17.115.7ICT goods imports (% of total goods imports)15.125.7ApplicationsOnline service index (0-1, 1=highest presence)0.280.37	Households with Internet access at home (%)	25.1	52.2
Domestic mobile traffic (minutes/subscription/month)273173Individuals using the Internet (%)33.652.1QualityPopulation covered by at least a 3G mobile network (%)69International Internet bandwidth (bit/s per Internet user)10,56426,098AffordabilityMobile-cellular sub-basket (\$ a month)15.48.5Fixed-broadband sub-basket (\$ a month)18.015.5Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)16.27.7Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)15.611.1TradeICT goods exports (% of total goods exports)17.115.7ICT goods imports (% of total goods imports)15.125.7Applications0.280.37Online service index (0-1, 1=highest presence)0.280.37	Usage		
Individuals using the Internet (%)33.652.1QualityPopulation covered by at least a 3G mobile network (%)69International Internet bandwidth (bit/s per Internet user)10,56426,098AffordabilityMobile-cellular sub-basket (\$ a month)15.48.5Fixed-broadband sub-basket (\$ a month)18.015.5Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)16.27.7Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)15.611.1TradeInternet goods imports)17.115.7ICT goods exports (% of total goods exports)15.125.7Applications0.280.37		2.6	2.3
Quality Population covered by at least a 3G mobile network (%) 69 International Internet bandwidth (bit/s per Internet user) 10,564 26,098 Affordability 15.4 8.5 Mobile-cellular sub-basket (\$ a month) 18.0 15.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.1 25.7 Applications 0.28 0.37	Domestic mobile traffic (minutes/subscription/month)	273	173
Population covered by at least a 3G mobile network (%) 69 International Internet bandwidth (bit/s per Internet user) 10,564 26,098 Affordability 15.4 8.5 Mobile-cellular sub-basket (\$ a month) 15.4 8.5 Kised-broadband sub-basket (\$ a month) 18.0 15.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.1 25.7 Applications 0nline service index (0-1, 1=highest presence) 0.28 0.37	Individuals using the Internet (%)	33.6	52.1
Population covered by at least a 3G mobile network (%) 69 International Internet bandwidth (bit/s per Internet user) 10,564 26,098 Affordability 15.4 8.5 Mobile-cellular sub-basket (\$ a month) 15.4 8.5 Kised-broadband sub-basket (\$ a month) 16.2 7.7 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.1 25.7 Applications 0nline service index (0-1, 1=highest presence) 0.28 0.37	Quality		
Affordability Mobile-cellular sub-basket (\$ a month) 15.4 8.5 Fixed-broadband sub-basket (\$ a month) 18.0 15.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade Image: Code section of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.1 25.7 Applications Online service index (0-1, 1=highest presence) 0.28 0.37			69
Mobile-cellular sub-basket (\$ a month) 15.4 8.5 Fixed-broadband sub-basket (\$ a month) 18.0 15.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.1 25.7 Applications Online service index (0-1, 1=highest presence) 0.28 0.37	International Internet bandwidth (bit/s per Internet user)	10,564	26,098
Mobile-cellular sub-basket (\$ a month) 15.4 8.5 Fixed-broadband sub-basket (\$ a month) 18.0 15.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.1 25.7 Applications Online service index (0-1, 1=highest presence) 0.28 0.37	Affordability		
Fixed-broadband sub-basket (\$ a month) 18.0 15.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade Image: CT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.1 25.7 Applications 0nline service index (0-1, 1=highest presence) 0.28 0.37		15.4	8.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.2 14.4 ICT service exports (% of total service exports) 15.1 25.7 Applications 0.28 0.37			
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 15.6 11.1 Trade ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.2 14.4 ICT service exports (% of total service exports) 15.1 25.7 Applications 0.28 0.37		16.2	7.7
ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.2 14.4 ICT service exports (% of total service exports) 15.1 25.7 Applications Online service index (0-1, 1=highest presence) 0.28 0.37		15.6	11.1
ICT goods exports (% of total goods exports) 17.1 15.7 ICT goods imports (% of total goods imports) 15.2 14.4 ICT service exports (% of total service exports) 15.1 25.7 Applications Online service index (0-1, 1=highest presence) 0.28 0.37	Trade		
ICT goods imports (% of total goods imports) 15.2 14.4 ICT service exports (% of total service exports) 15.1 25.7 Applications 0nline service index (0-1, 1=highest presence) 0.28 0.37		17 1	15.7
ICT service exports (% of total service exports) 15.1 25.7 Applications 0nline service index (0-1, 1=highest presence) 0.28 0.37			
Online service index (0-1, 1=highest presence) 0.28 0.37			
Online service index (0-1, 1=highest presence) 0.28 0.37	Applications		
	••	0.28	0.37
		13.9	34.7

Low and middle income

	2010	2015
Economic and social context		
Population (millions)	5,769	6,159
Urban population (% of total)	46	49
GNI per capita, World Bank Atlas method (\$)	3,315	4,479
GDP growth, 2005–10 and 2010–15 (avg. annual %)	6.2 81	4.7
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	67	 71
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	2.6	2.1
Telecommunications investment (% of revenue)	20.3	
Sector performance		
Access	11.0	0.1
Fixed-telephone subscriptions (per 100 people)	11.8 70.0	9.1 93.6
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	4.1	93.0 7.5
Households with a computer (%)	22.7	32.4
Households with Internet access at home (%)	16.0	36.5
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	4.3	4.7
Domestic mobile traffic (minutes/subscription/month)	217	158
Individuals using the Internet (%)	20.5	36.8
Quality		66
Population covered by at least a 3G mobile network (%)	0.070	20,323
International Internet bandwidth (bit/s per Internet user)	9,070	20,323
Affordability Mobile-cellular sub-basket (\$ a month)	13.4	8.1
Fixed-broadband sub-basket (\$ a month)	23.5	18.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.8	7.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	16.2	10.8
Trade		
ICT goods exports (% of total goods exports)	14.5	13.8
ICT goods imports (% of total goods imports)	13.2	12.7
ICT service exports (% of total service exports)	25.8	26.9
Applications	0.10	0.27
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.18 7.3	0.27 18.3
	1.3	10.0

High income

	2010	2015
Economic and social context		
Population (millions)	1,154	1,187
Urban population (% of total)	80	81
GNI per capita, World Bank Atlas method (\$)	39,538	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.8	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	99 92	 95
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity	0.7	0.5
Telecommunications revenue (% of GDP)	2.7	2.5
Telecommunications investment (% of revenue)	15.6	18.8
Sector performance		
Access	47.4	44.0
Fixed-telephone subscriptions (per 100 people)	47.4 108.8	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people)	26.3	31.0
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	76.6	83.2
Households with Internet access at home (%)	73.2	85.0
Usage Int'l. voice traffic, total (minutes/subscription/month)		
Domestic mobile traffic (minutes/subscription/month)		196
Individuals using the Internet (%)	72.2	81.0
Quality Population covered by at least a 3G mobile network (%)	93	99
International Internet bandwidth (bit/s per Internet user)	61,237	134,761
Affordability Mobile-cellular sub-basket (\$ a month)	22.3	14.2
Fixed-broadband sub-basket (\$ a month)	26.7	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	20.6	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	25.0	14.4
 Trade		
ICT goods exports (% of total goods exports)	10.5	9.5
ICT goods imports (% of total goods imports)	12.5	11.2
ICT service exports (% of total service exports)	28.9	32.0
Applications		
Online service index (0-1, 1=highest presence)	0.46	0.67
Secure Internet servers (per million people)	882.4	1,194.6

16

Country tables

China

Data for China do not include data for Hong Kong SAR, China; Macao SAR, China; or Taiwan, China.

Cyprus

GNI and GDP data and data calculated using GNI and GDP refer to the area controlled by the government of Cyprus.

Georgia

GNI, GDP, and population data and data calculated using GNI, GDP, and population exclude Abkhazia and South Ossetia.

Kosovo, Montenegro, and Serbia

Montenegro declared independence from Serbia and Montenegro on June 3, 2006. Where available, data for each country are shown separately. However, some indicators for Serbia prior to 2006 include data for Montenegro. Moreover, data for most indicators for Serbia from 1999 onward exclude data for Kosovo, which in 1999 became a territory under international administration pursuant to UN Security Council Resolution 1244 (1999). Kosovo became a member of the World Bank on June 29, 2009, and its data are shown where available.

Moldova

GNI, GDP, and population data and data calculated using GNI, GDP, and population exclude Transnistria.

Morocco

GNI and GDP data and data calculated using GNI and GDP include former Spanish Sahara.

South Sudan and Sudan

South Sudan declared its independence on July 9, 2011. Data are shown separately for South Sudan where available. Data reported for Sudan exclude South Sudan after 2011 unless otherwise noted.

Tanzania

GNI and GDP data and data calculated using GNI and GDP refer to mainland Tanzania only.

For more information, see World Development Indicators 2017 or data.worldbank.org.

Afghanistan

South Asia

Low income

	Country	y data	Low- income group
	2010	2015	2015
Economic and social context Population (millions)	28	33	638
Urban population (% of total)	25	27	31
GNI per capita, World Bank Atlas method (\$)	520	630	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	10.7	5.1	5.4
Adult literacy rate (% ages 15 and older)	32	38	
Gross primary, secondary, and tertiary school enrollment (%)	65	70	60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	Р		
Mobile telephone service	P P	P C	
Internet service	P A	A	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	ĉ	c	
	0	0	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.1	0.3	0.9
Mobile-cellular telephone subscriptions (per 100 people)	36.0	61.6	60.0
Fixed-broadband subscriptions (per 100 people)	0.0 1.9ª	0.0	0.3
Households with a computer (%)	1.9ª 1.5ª	2.9ª 3.9ª	
Households with Internet access at home (%)	1.54	3.94	1.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	 4.0ª		48.9
Individuals using the Internet (%)	4.0ª	8.3ª	9.5
Quality			
Population covered by at least a 3G mobile network (%)		40	51
International Internet bandwidth (bit/s per Internet user)	1,761	10,213	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	9.7	5.4	9.4
Fixed-broadband sub-basket (\$ a month)	53.5	20.8	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	6.9	5.8	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		5.8	10.8
Trade			
ICT goods exports (% of total goods exports)			
ICT goods imports (% of total goods imports)	0.4	0.1	3.4
ICT service exports (% of total service exports)	32.6	27.7	
Annliegtions			
Applications Online service index (0-1, 1=highest presence)	0.23	0.18	0.11
Secure Internet servers (per million people)	0.7	1.4	1.5

Albania

Europe & Central Asia

Upper middle income

			Upper middle-
	Country data		income group
	2010	2015	2015
Economic and social context			
Population (millions)	3	3	2,594
Urban population (% of total)	52	57	64
GNI per capita, <i>World Bank Atlas</i> method (\$)	4,360 5.3	4,290 1.8	8,186 4.5
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	5.5 97	1.0 98	4.5
Gross primary, secondary, and tertiary school enrollment (%)	78	88	81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	Р	C	
Mobile telephone service	P C	P C	
Internet service Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.6	1.7	2.1
Telecommunications investment (% of revenue)	17.2	32.0	18.8
Sector performance Access	10.6	7.1	17.3
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	85.5	106.4	
Fixed-broadband subscriptions (per 100 people)	3.4	7.6	105.1
Households with a computer (%)	15.6ª	25.7	
Households with Internet access at home (%)	13.7ª	35.5	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	21.8	28.2	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	141.8 45.0	165.6 63.3	173.1 52.1
Quality			
Population covered by at least a 3G mobile network (%)	86	99	69
International Internet bandwidth (bit/s per Internet user)	11,992	30,660	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	25.8 10.7	6.4 9.5	8.5 15.5
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	4.6	9.5 4.4	7.7
Mobile-b'band, prepaid nandsel-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.0 15.7	4.4	11.1
Trade			
ICT goods exports (% of total goods exports)	0.8	0.1	15.7
ICT goods imports (% of total goods imports)	4.1	1.0	14.4
ICT service exports (% of total service exports)	10.8	10.1	25.7
Applications	0.04	0.45	0.07
Online service index (0-1, 1=highest presence)	0.31	0.45	0.37
Secure Internet servers (per million people)	9.3	37.7	34.7

Algeria

Middle East & North Africa

Upper middle income

			Upper middle- income
	Countr 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	36	40	2,594
Urban population (% of total)	68	71	64
GNI per capita, World Bank Atlas method (\$)	4,470	4,870	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.5	3.3	4.5
Adult literacy rate (% ages 15 and older)	75	80	
Gross primary, secondary, and tertiary school enrollment (%)	79		81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	Р	М	
Mobile telephone service	Р	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	 A	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	A	
Sector efficiency and capacity	2.1	2.0	0.1
Telecommunications revenue (% of GDP)	3.1	2.9	2.1 18.8
Telecommunications investment (% of revenue)			10.0
Sector performance			
Access	7.9	8.0	17.3
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	88.4	0.0 113.0	105.1
Fixed-broadband subscriptions (per 100 people)	2.4	5.6	105.1
Households with a computer (%)	20.0ª	37.0	48.7
Households with Internet access at home (%)	9.0ª	31.9	52.2
llaara			
Usage Int'l. voice traffic, total (minutes/subscription/month)	4.4	4.9	2.3
Domestic mobile traffic (minutes/subscription/month)	164.3	166.6	
Individuals using the Internet (%)	12.5	38.24	52.1
Ouality			
Population covered by at least a 3G mobile network (%)		46	69
International Internet bandwidth (bit/s per Internet user)	7,771	30,119	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	13.8	10.2	8.5
Fixed-broadband sub-basket (\$ a month)	14.8	15.5	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		6.0	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		19.9	11.1
Trade			
ICT goods exports (% of total goods exports)	0.0	0.0	15.7
ICT goods imports (% of total goods imports)	3.0	5.1	14.4
ICT service exports (% of total service exports)	56.7	50.7	25.7
Applications			
	0.10	0.08	0.37
Online service index (0-1, 1=highest presence)			

American Samoa

East Asia & Pacific

Upper middle income

			Upper middle- income		
	Countr 2010			ountry data group	
Economic and social context					
Population (millions)	0.06	0.06	2,594		
Urban population (% of total)	88	87	64		
GNI per capita, World Bank Atlas method (\$)			8,186		
GDP growth, 2005–10 and 2010–15 (avg. annual %)			4.5		
Adult literacy rate (% ages 15 and older)					
Gross primary, secondary, and tertiary school enrollment (%)			81		
Sector structure					
Separate telecommunications/ICT regulator					
Status of main fixed-line telephone operator					
Level of competition (competition, partial comp., monopoly)					
International gateway(s)					
Mobile telephone service					
Internet service					
Foreign ownership (not allowed, restricted, allowed)					
Reg. treatment of VoIP (banned, closed, no framework, allowed)					
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.1		
Telecommunications investment (% of revenue)			18.8		
Sector performance					
Access	10.7	10.0	17.0		
Fixed-telephone subscriptions (per 100 people)	18.7	18.0	17.3		
Mobile-cellular telephone subscriptions (per 100 people)			105.1		
Fixed-broadband subscriptions (per 100 people)			15.4		
Households with a computer (%)			48.7		
Households with Internet access at home (%)			52.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)			2.3		
Domestic mobile traffic (minutes/subscription/month)			173.1		
Individuals using the Internet (%)			52.1		
Quality					
Population covered by at least a 3G mobile network (%)			69		
International Internet bandwidth (bit/s per Internet user)			26,098		
Affordability					
Mobile-cellular sub-basket (\$ a month)			8.5		
Fixed-broadband sub-basket (\$ a month)			15.5		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			7.7		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			11.1		
Trade					
ICT goods exports (% of total goods exports)			15.7		
ICT goods imports (% of total goods imports)			14.4		
ICT service exports (% of total service exports)			25.7		
Applications					
Applications Online service index (0-1, 1=highest presence)			0.37		
	 35.9	 72.0			
Secure Internet servers (per million people)					

Andorra

Europe & Central Asia

High income

	Countr	y data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	0.08	0.07	1,187
Urban population (% of total)	88	85	81
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	41,670 -3.3	43,270 -2.2	41,366 1.5
Adult literacy rate (% ages 15 and older)		2.2	1.5
Gross primary, secondary, and tertiary school enrollment (%)			95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly) International gateway(s)	м	М	
Mobile telephone service	M	M	
Internet service	М		
Foreign ownership (not allowed, restricted, allowed)	No	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.6	3.4	2.5 18.8
Telecommunications investment (% of revenue)			10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	49.0	48.0	41.2
Mobile-cellular telephone subscriptions (per 100 people)	84.1	88.1	124.5
Fixed-broadband subscriptions (per 100 people)	31.5	37.9	31.0
Households with a computer (%)	83.2ª	82.7ª	83.2
Households with Internet access at home (%)	67.2	84.8ª	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	91.9	67.2 52.4	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	57.6 81.0	52.4 96.9ª	195.9 81.0
	01.0	50.5	01.0
Quality Population covered by at least a 3G mobile network (%)	95	97	99
International Internet bandwidth (bit/s per Internet user)	36,447		134,761
A.C			
Affordability Mobile-cellular sub-basket (\$ a month)		31.0	14.2
Fixed-broadband sub-basket (\$ a month)		17.4	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		24.9	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	55.1	15.1	14.4
Trade			
ICT goods exports (% of total goods exports)	25.0	21.7	9.5
ICT goods imports (% of total goods imports)	7.1	6.7	11.2
ICT service exports (% of total service exports)			32.0
Applications	0.00	0.40	0.07
Online service index (0-1, 1=highest presence)	0.23 924.0	0.43 1,631.8	0.67 1,194.6
Secure Internet servers (per million people)	324.0	1,031.0	1,194.0

Angola

Sub-Saharan Africa

Upper middle income

			Upper middle- income
	Country 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	21	25	2,594
Urban population (% of total)	40	44	64
GNI per capita, World Bank Atlas method (\$)	3,570	4,180	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	12.4	5.0	4.5
Adult literacy rate (% ages 15 and older)		71	
Gross primary, secondary, and tertiary school enrollment (%)	60		81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M C	M C	
Mobile telephone service Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity	0.0	1.0	0.1
Telecommunications revenue (% of GDP)	2.2 34.2	1.8 18.9	2.1 18.8
Telecommunications investment (% of revenue)	34.2	10.9	10.0
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	1.4	1.2	17.3
Mobile-cellular telephone subscriptions (per 100 people)	48.1	60.8 0.7	105.1 15.4
Fixed-broadband subscriptions (per 100 people)	0.1 7.1ª	0.7 11.1 ^a	
Households with a computer (%) Households with Internet access at home (%)	7.1ª 5.7ª	10.2	
	5.1-	10.2	52.2
Usage	0.7	4.0	
Int'l. voice traffic, total (minutes/subscription/month)	3.7	4.8	2.3
Domestic mobile traffic (minutes/subscription/month)	87.2	112.5	173.1
Individuals using the Internet (%)	2.8ª	12.44	52.1
Quality			
Population covered by at least a 3G mobile network (%)	40	60	69
International Internet bandwidth (bit/s per Internet user)	2,192	6,518	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	19.2	15.4	8.5
Fixed-broadband sub-basket (\$ a month)	133.4	40.8	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	94.3	15.0	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		149.9	11.1
Trade			
ICT goods exports (% of total goods exports)			15.7
ICT goods imports (% of total goods imports)			14.4
ICT service exports (% of total service exports)	5.9	2.7	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.34	0.30	0.37
Secure Internet servers (per million people)	2.5	5.5	34.7
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Antigua and Barbuda

Latin America & Caribbean

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	0.09 26 12,620 -0.1 84	0.09 24 13,390 2.2 99	1,187 81 41,366 1.5 95
	01		
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	No Public M P A B	No Public P P A A A	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			2.5 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	41.6 192.6 8.2 48.9 ^a 40.0 ^a	13.1 137.2 13.1 57.6ª 56.3ª	
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	19.0 126.7 47.0ª	 148.9 65.2ª	 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	0 29,269	98 71,825	99 134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	25.3 54.9 27.8 29.3	23.4 54.9 9.3 30.7	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	2.2 3.1 6.4	2.2 3.8 6.7	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.12 1,100.5	0.42 305.0	0.67 1,194.6

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Argentina

Latin America & Caribbean

Upper middle income

	Country data		Upper middle- income group 2015
Economic and social context			
Population (millions)	41	43	2,594
Urban population (% of total)	91	92	64
GNI per capita, World Bank Atlas method (\$)	9,240	12,460	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.2	0.9	4.5
Adult literacy rate (% ages 15 and older)	 99	98 100	 81
Gross primary, secondary, and tertiary school enrollment (%)	99	100	61
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service	 C	 C	
Internet service	c	C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity	2.7	2.4	2.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	15.9	2.4 21.2	2.1 18.8
	10.0	21.2	10.0
Sector performance			
Access			47.0
Fixed-telephone subscriptions (per 100 people)	24.6	24.0 143.9	17.3 105.1
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	141.4 10.0	145.9	105.1
Households with a computer (%)	47.0	65.1ª	
Households with Internet access at home (%)	34.0ª	55.5ª	
Usage			2.3
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	 19.5	 119.2	173.1
Individuals using the Internet (%)	45.0ª	69.4ª	
Quality			
Population covered by at least a 3G mobile network (%)		90ª	
International Internet bandwidth (bit/s per Internet user)	31,373	46,145	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	41.1	30.8	8.5
Fixed-broadband sub-basket (\$ a month)	24.3	41.2	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		10.0	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	19.8	16.2	11.1
Trade			
ICT goods exports (% of total goods exports)	0.1	0.2	15.7
ICT goods imports (% of total goods imports)	9.0	7.4	14.4
ICT service exports (% of total service exports)	42.6	45.1	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.41	0.55	0.37
Secure Internet servers (per million people)	25.6	63.3	34.7
······			

Armenia

Europe & Central Asia

Lower middle income

	Countr	y data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	3	3	2,927
Urban population (% of total)	64	63	39
GNI per capita, World Bank Atlas method (\$)	3,370	3,880	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.3	4.4	5.4
Adult literacy rate (% ages 15 and older)	100	100	
Gross primary, secondary, and tertiary school enrollment (%)	78		68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)		С	
Mobile telephone service	Р	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)) A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.4	3.3	
Telecommunications investment (% of revenue)	29.0	22.1	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	20.0	18.4	3.5
Mobile-cellular telephone subscriptions (per 100 people)	130.4	115.1	90.5
Fixed-broadband subscriptions (per 100 people)	3.2	9.6	
Households with a computer (%)	20.0	64.7	
Households with Internet access at home (%)	13.6	56.24	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	23.1	17.9	7.5
Domestic mobile traffic (minutes/subscription/month)	98.9	210.1	152.0
Individuals using the Internet (%)	25.0ª	58.2	
Quality			
Population covered by at least a 3G mobile network (%)	93	100	
International Internet bandwidth (bit/s per Internet user)	14,236	67,871	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	8.8	7.0	6.9
Fixed-broadband sub-basket (\$ a month)	32.4	8.4	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.5	8.4	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	29.0	7.3	10.0
Trade			
ICT goods exports (% of total goods exports)	0.8	0.3	5.7
ICT goods imports (% of total goods imports)	4.7	3.5	7.6
ICT service exports (% of total service exports)	13.5	11.4	48.0
Applications			
		0.01	0.00
Online service index (0-1, 1=highest presence)	0.17	0.61	0.26

Aruba

Latin America & Caribbean

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.10	0.10	1,187
Urban population (% of total)	43	42	81
GNI per capita, World Bank Atlas method (\$)			41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	-3.9		1.5
Adult literacy rate (% ages 15 and older)	97	98	
Gross primary, secondary, and tertiary school enrollment (%)	87		95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.6		2.5
Telecommunications investment (% of revenue)	15.8		18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	34.5	33.7	41.2
Mobile-cellular telephone subscriptions (per 100 people)	129.7ª	135.7	124.5
Fixed-broadband subscriptions (per 100 people)	18.9	18.3	31.0
Households with a computer (%)	62.5	76.6ª	
Households with Internet access at home (%)	63.0		85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)	62.0ª	88.7ª	81.0
Quality			
Population covered by at least a 3G mobile network (%)		80ª	99
International Internet bandwidth (bit/s per Internet user)	81,283		134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade			
ICT goods exports (% of total goods exports)	0.4	0.9	9.5
ICT goods imports (% of total goods imports)	4.8	5.2	11.2
ICT service exports (% of total service exports)	14.0	13.0	32.0
Applications			
Applications Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	 364.2	 279.1	1,194.6
			,

Australia

East Asia & Pacific

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context Population (millions)	22	24	1,187
Urban population (% of total)	89	89	81
GNI per capita, World Bank Atlas method (\$)	46,530	60,070	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.9	2.7	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 111	 116	 95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	Р	С	
International gateway(s) Mobile telephone service	P C	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.3	2.5	2.5
Telecommunications investment (% of revenue)	16.5		18.8
Sector performance			
Access	47.4	20.0	11.0
Fixed-telephone subscriptions (per 100 people)	47.4 100.4	38.0 132.8	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	24.6	27.9	31.0
Households with a computer (%)	81.1ª		83.2
Households with Internet access at home (%)	74.1ª		85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	 70.03		195.9
Individuals using the Internet (%)	76.0ª	84.6	81.0
Quality Population covered by at least a 3G mobile network (%)	99	99	99
International Internet bandwidth (bit/s per Internet user)	41,110		134,761
Affordability Mobile-cellular sub-basket (\$ a month)	27.7	14.7	14.2
Fixed-broadband sub-basket (\$ a month)	36.9	37.5	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	20.7	15.0	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	41.4	18.8	14.4
Trade			
ICT goods exports (% of total goods exports)	1.0	1.1	9.5
ICT goods imports (% of total goods imports)	10.4	9.2	11.2
ICT service exports (% of total service exports)	17.7	19.1	32.0
Applications	0.77	0.00	0.07
Online service index (0-1, 1=highest presence)	0.77	0.93	0.67
Secure Internet servers (per million people)	1,784.6	1,400.9	1,194.6

Austria

Europe & Central Asia

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	8	9	1,187
Urban population (% of total)	66	66	81
GNI per capita, World Bank Atlas method (\$)	49,350	47,120	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.1	0.9	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 94	 95	 95
Sector structure			<u> </u>
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	C	
Mobile telephone service	С	C	
Internet service	C A	C R	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		No	
		NO	
Sector efficiency and capacity	1.0		0.5
Telecommunications revenue (% of GDP)	1.6 14.6	1.1 15.3	2.5 18.8
Telecommunications investment (% of revenue)	14.0	15.5	10.0
Sector performance			
Access	40.4	40.0	44.0
Fixed-telephone subscriptions (per 100 people)	40.4 145.7	42.2 157.4	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	24.4	28.6	31.0
Households with a computer (%)	76.2	82.1	83.2
Households with Internet access at home (%)	72.9	82.4	85.0
Usage	16.6	15.6	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	149.5	131.4	 195.9
Individuals using the Internet (%)	75.2	83.9	81.0
-			
Quality Population covered by at least a 3G mobile network (%)	96	98	99
International Internet bandwidth (bit/s per Internet user)	39,584		134,761
Affordability	13.9	6.7	14.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	39.3	23.5	14.2 25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	5.1	5.5	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	5.1	6.5	14.4
Trade			
ICT goods exports (% of total goods exports)	3.9	4.3	9.5
ICT goods imports (% of total goods imports)	5.8	5.3	11.2
ICT service exports (% of total service exports)	25.0	31.5	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.48	0.75	0.67
Secure Internet servers (per million people)	858.7	1,500.5	1,194.6

Azerbaijan

Europe & Central Asia

Upper middle income

			Upper middle-
	Countr 2010	y data 2015	income group 2015
Economic and social context	2020		2020
Population (millions)	9	10	2.594
Urban population (% of total)	53	55	,
GNI per capita, World Bank Atlas method (\$)	5,370	6,560	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	15.8	2.6	,
Adult literacy rate (% ages 15 and older)	100	100	
Gross primary, secondary, and tertiary school enrollment (%)	70	75	81
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	С	
Mobile telephone service	Р	С	
Internet service	С	C	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed	l) A	С	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.6	2.9	2.1
Telecommunications investment (% of revenue)	18.3	18.0	
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	16.6 100.1 5.2	18.7 111.3 19.8	105.1 15.4
Households with a computer (%) Households with Internet access at home (%)	30.3 37.4ª	62.4 76.7	
Usage	6.7	5.4	2.3
Int'l. voice traffic, total (minutes/subscription/month)	6.7 79.2	5.4 155.2	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	46.0	77.0	
Quality			
Population covered by at least a 3G mobile network (%)	69	97	
International Internet bandwidth (bit/s per Internet user)	9,083	35,127	26,098
Affordability	7.0		0.5
Mobile-cellular sub-basket (\$ a month)	7.3	8.0	
Fixed-broadband sub-basket (\$ a month)	12.5	9.8	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	5.1	3.9	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.5	6.8	11.1
Trade ICT goods exports (% of total goods exports)	0.0	0.0	15.7
ICT goods imports (% of total goods imports)	3.5	3.0	
ICT service exports (% of total service exports)	20.1	10.7	
Applications			
Online service index (0-1, 1=highest presence)	0.32	0.43	0.37
Secure Internet servers (per million people)	5.1	16.4	34.7

Bahamas, The

Latin America & Caribbean

High income

Z010 Z015 Z015 Economic and social context Population (millions) 0.36 0.39 1,187 Urban population (% of total) 83 83 81 66 GNIP er capita, World Bank Attas method (\$) 21,660 21,310 41,356 21,560 21,310 41,356 GDP growth, 2005-10 and 2010-15 (ayg, annual %) -0.7 1.0 1.5 Adult literacy rate (% ages 15 and older) 1		Count	Country data		ii Country data		Country data		Country data	High- income group
Population (millions) 0.36 0.39 1,187 Urban population (% of total) 83 83 81 GNI per capita, World Bank Atlas method (\$) 21,660 21,310 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) -0.7 1.0 1.5 Adult literacy rate (% ages 15 and older) - - - Gross primary, secondary, and tertiary school enrollment (%) - 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Mued Level of competition (competition, partial comp., monopoly) Internet service M - Internet service C C Foreign ownership (not allowed, restricted, allowed) A R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No A R Sector performance Access 18.8 80.3 12.4 1.2 Mobile-cellular telephone subscriptions (per 100 people) 11.8 80.3 12.4 5.5 Fixed-broadband subscriptions (per 100 people)		2010	2015							
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GNI per capita, World Bank Atlas method (\$) 21,660 21,310 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) -0.7 1.0 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Sector structure Suparate telecommunications/ICT regulator Yes Yes Sector structure Mobile telephone service M Internet service M Internet service M Foreign ownership (not allowed, restricted, allowed) A R Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Fleecommunications investment (% of GDP) 7.6 2.5 Fleecommunications investment (% of revenue) 8.4 18.8 Sector efformance Access 69.20.9 31.2 41.2				,						
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Online service index (0-1, 1=highest presence)0.230.340.67	ICT service exports (% of total service exports)			32.0						
Online service index (0-1, 1=highest presence)0.230.340.67	Applications									
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	Secure Internet servers (per million people)	352.0	337.6	1,194.6						

Bahrain

Middle East & North Africa

High income

Ground 2010 group 2010 2015 2015 Economic and social context Population (millions) 1 1 1.187 Urban population (% of total) 89 89 81 GNI per capita, World Bank Atlas method (\$) 18,660 20,350 41,366 GOP growth, 2005-10 and 2010-15 (avg, annual %) 5.6 3.9 1.5 Adult literacy rate (% ages 15 and older) 95 96 Gross primary, secondary, and tertiary school enrollment (%) 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mkked Mixed Level of competition (competition, partial comp., monopoly) Internet service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VolP (banned, closed, no framework, allowed) A Felecommunications revenue (% of GDP) 3.7 3.4 2.5 Telecommunications investment (% of rev		Counti	Country data		Country data		ا in Country data	
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Domestic mobile traffic (minutes/subscription/month)191.5228.5195.9Individuals using the Internet (%)55.093.581.0Quality1009899International Internet bandwidth (bit/s per Internet user)14,52847,205134,761Affordability15.011.114.22Mobile-cellular sub-basket (\$ a month)15.011.114.2Fixed-broadband sub-basket (\$ a month)26.613.325.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)6.78.010.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)13.318.614.4Trade2.83.811.2ICT goods exports (% of total goods exports)2.83.811.2ICT service exports (% of total service exports)23.121.632.0Applications0.730.940.67	Usage							
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QualityPopulation covered by at least a 3G mobile network (%)1009899International Internet bandwidth (bit/s per Internet user)14,52847,205134,761AffordabilityMobile-cellular sub-basket (\$ a month)15.011.114.2Fixed-broadband sub-basket (\$ a month)26.613.325.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)6.78.010.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)13.318.614.4TradeICT goods exports (% of total goods exports)0.31.79.5ICT goods imports (% of total goods imports)2.83.811.2ICT service exports (% of total service exports)23.121.632.0Applications0.730.940.67								
Population covered by at least a 3G mobile network (%) 100 98 99 International Internet bandwidth (bit/s per Internet user) 14,528 47,205 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 15.0 11.1 14.2 Fixed-broadband sub-basket (\$ a month) 26.6 13.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.7 8.0 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 13.3 18.6 14.4 Trade ICT goods exports (% of total goods exports) 0.3 1.7 9.5 ICT goods imports (% of total goods imports) 2.8 3.8 11.2 ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67	Individuals using the internet (%)	55.0	93.5	81.0				
International Internet bandwidth (bit/s per Internet user) 14,528 47,205 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 15.0 11.1 14.2 Fixed-broadband sub-basket (\$ a month) 15.0 11.1 14.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 26.6 13.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.7 8.0 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 13.3 18.6 14.4 Trade ICT goods exports (% of total goods exports) 0.3 1.7 9.5 ICT goods imports (% of total goods imports) 2.8 3.8 11.2 ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67		100	98	99				
Mobile-cellular sub-basket (\$ a month) 15.0 11.1 14.2 Fixed-broadband sub-basket (\$ a month) 26.6 13.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.7 8.0 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 13.3 18.6 14.4 Trade ICT goods exports (% of total goods exports) 0.3 1.7 9.5 ICT goods imports (% of total goods imports) 2.8 3.8 11.2 ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67								
Mobile-cellular sub-basket (\$ a month) 15.0 11.1 14.2 Fixed-broadband sub-basket (\$ a month) 26.6 13.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.7 8.0 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 13.3 18.6 14.4 Trade ICT goods exports (% of total goods exports) 0.3 1.7 9.5 ICT goods imports (% of total goods imports) 2.8 3.8 11.2 ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67	Affordability							
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 6.7 8.0 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 13.3 18.6 14.4 Trade 0.3 1.7 9.5 0.3 1.7 9.5 ICT goods exports (% of total goods exports) 0.3 1.7 9.5 0.7 2.8 3.8 11.2 ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67		15.0	11.1	14.2				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)13.318.614.4Trade ICT goods exports (% of total goods exports)0.31.79.5ICT goods imports (% of total goods imports)2.83.811.2ICT service exports (% of total service exports)23.121.632.0Applications Online service index (0-1, 1=highest presence)0.730.940.67		26.6	13.3	25.2				
Trade ICT goods exports (% of total goods exports) 0.3 1.7 9.5 ICT goods imports (% of total goods imports) 2.8 3.8 11.2 ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67	Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)							
ICT goods exports (% of total goods exports) 0.3 1.7 9.5 ICT goods imports (% of total goods imports) 2.8 3.8 11.2 ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.3	18.6	14.4				
ICT goods imports (% of total goods imports) 2.8 3.8 11.2 ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67		0.0	4 -	0.5				
ICT service exports (% of total service exports) 23.1 21.6 32.0 Applications 0.73 0.94 0.67								
Online service index (0-1, 1=highest presence) 0.73 0.94 0.67								
Online service index (0-1, 1=highest presence) 0.73 0.94 0.67	Annlications							
		0.73	0.94	0.67				
		97.5	187.3	1,194.6				

Bangladesh

South Asia

Lower middle income

			Lower middle-
	Countr	y data	income group
-	2010	2015	2015
Economic and social context			
Population (millions)	152	161	2,927
Urban population (% of total)	30	34	39
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	780 6.1	1,190 6.3	2,035 5.4
Adult literacy rate (% ages 15 and older)	0.1	61	
Gross primary, secondary, and tertiary school enrollment (%)	59		68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)		Р	
International gateway(s) Mobile telephone service	M C	P P	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	Ā	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.7	1.9	
Telecommunications investment (% of revenue)	4.0	29.3	
Sector performance			
Access	0.8	0.5	3.5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	44.9	83.4	
Fixed-broadband subscriptions (per 100 people)	0.3	2.4	
Households with a computer (%)	3.0	8.2	
Households with Internet access at home (%)	1.4	11.0	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	20.9	23.6	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	152.2 3.7ª	160.5 14.4	
Quality Population covered by at least a 3G mobile network (%)	1	71	
International Internet bandwidth (bit/s per Internet user)	1,431	6,181	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	2.3	1.5	6.9
Fixed-broadband sub-basket (\$ a month)	8.3	4.4	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	7.0 8.4	2.8 4.1	5.8 10.0
Trade			
ICT goods exports (% of total goods exports)	0.0		5.7
ICT goods imports (% of total goods imports)	4.0		7.6
ICT service exports (% of total service exports)	36.2	28.3	48.0
Applications			
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.36 0.3	0.35 1.3	0.26 7.4

Barbados

Latin America & Caribbean

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.28 32 15,860 0.4	31 14,800	1,187 81 41,366 1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 97		 95
Sector structure			
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service	Yes Mixed P	Mixed	
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	R A	C R	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)		5.0 12.1	2.5 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	49.0 124.8 20.0 56.0 46.9	116.5 27.2 70.8ª	
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 65.1	115.0	 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	20 21,694	98 247,474	99 134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.0 38.8 18.5 18.0	30.0 20.0	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	1.5 6.1 25.9	5.4	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.20 321.9		0.67 1,194.6

Belarus

Europe & Central Asia

Upper middle income

			Upper middle- income
	Countr 2010		group 2015
Economic and social context			
Population (millions)	9	10	2,594
Urban population (% of total)	75	77	64
GNI per capita, World Bank Atlas method (\$)	5,990	6,460	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	7.1	1.3	
Adult literacy rate (% ages 15 and older)	100		
Gross primary, secondary, and tertiary school enrollment (%)	97	99	81
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M C	M C	
Mobile telephone service Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	C	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.0	1.8	2.1
Telecommunications investment (% of revenue)	29.2		10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	43.6	49.0	17.3
Mobile-cellular telephone subscriptions (per 100 people)	108.9	123.6	105.1
Fixed-broadband subscriptions (per 100 people)	17.6	31.3	15.4
Households with a computer (%)	40.8		
Households with Internet access at home (%)	31.2	59.1	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	4.6 180.1	3.4 173.6	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	31.8	62.2	52.1
Quality			
Quality Population covered by at least a 3G mobile network (%)	67	96	69
International Internet bandwidth (bit/s per Internet user)	22,199	139,374	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	7.9		
Fixed-broadband sub-basket (\$ a month)	18.1	7.2	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	3.3		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.8	4.4	11.1
Trade	0.5	0.0	45 7
ICT goods exports (% of total goods exports)	0.5	0.6	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	2.4 17.9		
Applications	0.30	0.32	0.37
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	9.5	62.9	
	0.0	02.0	01.1

Belgium

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context Population (millions) Urban population (% of total)	11 98	98	1,187 81
GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	47,810 1.2 94	0.8	41,366 1.5 95
Gross primary, secondary, and tertiary school enronment (%)	94	119	90
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Mixed		
International gateway(s) Mobile telephone service Internet service	C C C	C C C	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) A	A No	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.2 14.2		2.5 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	42.4 111.1	115.7	41.2 124.5
Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	30.8 76.7 72.7	82.1	31.0 83.2 85.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 90.9 75.0		 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	97 109,676	100 241,805	99 134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	40.2 24.8 25.7 25.7	30.5 11.1	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	2.3 3.5 37.6	2.9	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.63 489.1	0.68 976.9	0.67 1,194.6

Belize

Latin America & Caribbean

Upper middle income

			Upper middle-
	Countre 2010	y data 2015	income group 2015
Economic and social context	2020		2010
Population (millions)	0.32	0.36	2,594
Urban population (% of total)	45	44	64
GNI per capita, World Bank Atlas method (\$)	3,970	4,420	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.4	2.7	4.5
Adult literacy rate (% ages 15 and older)		83	
Gross primary, secondary, and tertiary school enrollment (%)	76	77	81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	М	
Mobile telephone service	C C	C C	
Internet service Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	B	B	
Sector efficiency and capacity	5.0		
Telecommunications revenue (% of GDP)	5.2 41.7		2.1 18.8
Telecommunications investment (% of revenue)	41.7		10.0
Sector performance			
Access			. – .
Fixed-telephone subscriptions (per 100 people)	9.8	6.0	17.3
Mobile-cellular telephone subscriptions (per 100 people)	62.9	48.9	105.1
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	2.9 27.1	2.9 32.0ª	15.4 48.7
Households with a computer (%)	13.6	25.6	
	10.0	20.0	02.2
Usage	05.0		
Int'l. voice traffic, total (minutes/subscription/month)	35.9		2.3 173.1
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 28.2	 41.6ª	
	20.2	41.0	52.1
Quality			
Population covered by at least a 3G mobile network (%)			69
International Internet bandwidth (bit/s per Internet user)	9,193	35,970	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	31.0	31.2	8.5
Fixed-broadband sub-basket (\$ a month)	100.0	12.5	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		15.0	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		12.5	11.1
Trade			
ICT goods exports (% of total goods exports)	0.5	0.1	15.7
ICT goods imports (% of total goods imports)	3.6	2.9	14.4
ICT service exports (% of total service exports)	9.6	13.6	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.16	0.38	0.37
Secure Internet servers (per million people)	323.4	411.9	34.7
······			

Benin

Sub-Saharan Africa

Low income

	Country data		Low- income group
-	2010	2015	2015
Economic and social context			
Population (millions)	10	11	638
Urban population (% of total)	42	44	31
GNI per capita, World Bank Atlas method (\$)	760	860	620
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.0	5.5	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	29 68	38 73	 60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)	_		
International gateway(s)	Р	M	
Mobile telephone service	C P	C C	
Internet service Foreign ownership (not allowed, restricted, allowed)	P A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	C	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.7	5.3	
Telecommunications investment (% of revenue)	23.3	16.9	
Sector performance			
Access	1.4	1.8	0.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	74.4	85.6	60.0
Fixed-broadband subscriptions (per 100 people)	0.3	0.7	0.3
Households with a computer (%)	2.0	5.1ª	
Households with Internet access at home (%)	1.2ª	5.4ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	6.5	7.2	
Domestic mobile traffic (minutes/subscription/month)	32.6	40.9	48.9
Individuals using the Internet (%)	3.1	6.8ª	9.5
Quality Population covered by at least a 3G mobile network (%)	0	45	51
International Internet bandwidth (bit/s per Internet user)	2,090	3,002	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	15.5	8.5	9.4
Fixed-broadband sub-basket (\$ a month)	50.1	42.3	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	9.8	7.6	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	29.4	14.0	10.8
Trade ICT goods exports (% of total goods exports)	0.0	0.2	
ICT goods imports (% of total goods imports)	1.9	1.1	3.4
ICT service exports (% of total service exports)	23.0	18.8	
Applications			
Online service index (0-1, 1=highest presence)	0.12	0.11	0.11
Secure Internet servers (per million people)	0.1	3.9	1.5

Bermuda

North America

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.07	0.07	1,187
Urban population (% of total)	100	100	81
GNI per capita, World Bank Atlas method (\$)	110,440	106,140	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.3	-3.7	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 69	 65	 95
Sector structure			
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	89.0	18.3	41.2
Mobile-cellular telephone subscriptions (per 100 people)	135.8	57.9	124.5
Fixed-broadband subscriptions (per 100 people)	61.7	45.7	31.0
Households with a computer (%)	90.0 68.4ª	94.7ª 94.8ª	
Households with Internet access at home (%)	08.4ª	94.8ª	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			 195.9
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 84.2ª	 98.3ª	
individuals using the internet (%)	04.25	30.3*	01.0
Quality Population covered by at least a 3G mobile network (%)		99a	99
International Internet bandwidth (bit/s per Internet user)			134,761
international internet bandwidth (bit/3 per internet user)			104,701
Affordability Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade			
ICT goods exports (% of total goods exports)	6.6	12.6	9.5
ICT goods imports (% of total goods imports)	3.4	3.3	11.2
ICT service exports (% of total service exports)	42.0	38.9	32.0
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	5,850.4	7,204.7	1,194.6

Bhutan

South Asia

Lower middle income

South Asia	-ower minute mooning		
	Ocumtur		Lower middle- income
	Countr	-	group
	2010	2015	2015
Economic and social context			
Population (millions)	0.72	0.77	2,927
Urban population (% of total)	35	39	39
GNI per capita, World Bank Atlas method (\$)	1,990	2,370	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	9.4	4.5	5.4
Adult literacy rate (% ages 15 and older)	57	64	
Gross primary, secondary, and tertiary school enrollment (%)	65	68	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Contain afflictum and a surgetter			
Sector efficiency and capacity	2.4	2.3	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.4	2.3 42.2	
	21.1	72.2	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	3.7	2.8	3.5
Mobile-cellular telephone subscriptions (per 100 people)	55.0	87.1	90.5
Fixed-broadband subscriptions (per 100 people)	1.2	3.6	1.9
Households with a computer (%)	8.9ª	24.6	
Households with Internet access at home (%)	6.0ª	31.74	24.3
llaaga			
Usage Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)	44.6	15.2	152.0
Individuals using the Internet (%)	13.6	39.84	28.6
Quality			
Population covered by at least a 3G mobile network (%)	15	80	
International Internet bandwidth (bit/s per Internet user)	1,590	11,220	10,372
Affordability Mobile-cellular sub-basket (\$ a month)	4.5	2.6	6.9
Fixed-broadband sub-basket (\$ a month)	10.5	8.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	2.8	1.7	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	5.6	4.8	10.0
Trade			
ICT goods exports (% of total goods exports)	11.3		5.7
ICT goods imports (% of total goods imports)	2.5		7.6
ICT service exports (% of total service exports)	3.9	0.3	48.0
Applications	0.19	0.24	0.26
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	4.2	16.8	7.4
	7.2	10.0	4

Bolivia

Latin America & Caribbean

Lower middle income

			Lower middle-
	Countr	y data 2015	income group 2015
	2010	2015	2015
Economic and social context	10	11	2,927
Population (millions) Urban population (% of total)	66	69	2,927
GNI per capita, World Bank Atlas method (\$)	1.810	3,080	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.7	5.5	5.4
Adult literacy rate (% ages 15 and older)	92	95	
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service	 C	 C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	No		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	8.2	4.2	
Telecommunications investment (% of revenue)	16.7	33.2	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	8.4	8.0	3.5
Mobile-cellular telephone subscriptions (per 100 people)	70.7	92.2	
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.9 22.8ª	1.6 33.1	1.9 19.3
Households with Internet access at home (%)	22.8° 6.0ª	23.8	
	0.0	20.0	21.0
Usage Int'l. voice traffic, total (minutes/subscription/month)	8.8	4.1	7.5
Domestic mobile traffic (minutes/subscription/month)	36.0	35.2	
Individuals using the Internet (%)	22.4ª	45.1	
Quality			
Population covered by at least a 3G mobile network (%)	2	27	
International Internet bandwidth (bit/s per Internet user)	3,728	19,673	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	11.3	10.7	6.9
Fixed-broadband sub-basket (\$ a month)	35.0	14.3	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.9	5.8	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	17.2	7.2	10.0
Trade			
ICT goods exports (% of total goods exports)	0.0		5.7
ICT goods imports (% of total goods imports)	3.5	3.7	7.6
ICT service exports (% of total service exports)	11.1	8.5	48.0
Applications	0.00	0.00	0.00
Online service index (0-1, 1=highest presence)	0.30	0.39	0.26
Secure Internet servers (per million people)	8.0	15.8	7.4

Bosnia and Herzegovina

Europe & Central Asia

Upper middle income

	pporm		Upper middle-
		ountry data gro	
	2010	2015	2015
Economic and social context			
Population (millions)	4	4	2,594
Urban population (% of total)	39	40	64
GNI per capita, World Bank Atlas method (\$)	4,780	4,680	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.9	1.2	4.5
Adult literacy rate (% ages 15 and older)	 70	98 78	
Gross primary, secondary, and tertiary school enrollment (%)	73	78	81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service	С	Р	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.1	5.3	2.1
Telecommunications investment (% of revenue)	23.8	18.7	18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	26.0	20.2	17.3
Mobile-cellular telephone subscriptions (per 100 people)	80.9	90.2	105.1
Fixed-broadband subscriptions (per 100 people)	10.2	16.6	15.4
Households with a computer (%)	33.7ª	47.1ª	
Households with Internet access at home (%)	23.0ª	53.6ª	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	20.1	16.7	2.3
Domestic mobile traffic (minutes/subscription/month)	45.2	60.7	173.1
Individuals using the Internet (%)	42.8ª	65.1ª	52.1
Overlife			
Quality Population covered by at least a 3G mobile network (%)	60	96	69
International Internet bandwidth (bit/s per Internet user)	18,612	56,331	26,098
	,	,	,
Affordability			
Mobile-cellular sub-basket (\$ a month)	15.4	12.6	8.5
Fixed-broadband sub-basket (\$ a month)	13.4	6.6	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	49.3	5.7	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.4	6.6	11.1
Trade			
ICT goods exports (% of total goods exports)	0.1	0.2	15.7
ICT goods imports (% of total goods imports)	2.9	2.9	14.4
ICT service exports (% of total service exports)	7.4	7.7	25.7
Applications	0.00	0.00	0.07
Online service index (0-1, 1=highest presence)	0.28 15.6	0.28 42.8	0.37 34.7
Secure Internet servers (per million people)	10.0	42.8	34.7

Botswana

Sub-Saharan Africa

Upper middle income

			Upper
	Countr	v data	middle- income
-	2010	2015	group 2015
Economic and social context			
Population (millions)	2	2	2,594
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	56 5,480	57 6,510	64 8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.0	5.1	4.5
Adult literacy rate (% ages 15 and older)		88	
Gross primary, secondary, and tertiary school enrollment (%)	74	77	81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly) International gateway(s)	С	Р	
Mobile telephone service	č	P	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	A	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.7 21.0		2.1 18.8
	21.0		10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	7.0	7.8	17.3
Mobile-cellular telephone subscriptions (per 100 people)	120.0	169.0	105.1
Fixed-broadband subscriptions (per 100 people)	0.6	1.8	15.4
Households with a computer (%)	9.2ª	16.0ª	
Households with Internet access at home (%)	6.1ª	19.6ª	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	 22.8	 67.7	2.3 173.1
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	6.0	27.5ª	
	0.0	21.0	02.1
Quality Population covered by at least a 3G mobile network (%)	40	92	69
International Internet bandwidth (bit/s per Internet user)	6,559	11,379	26,098
Affordability			
Affordability Mobile-cellular sub-basket (\$ a month)	14.7	8.8	8.5
Fixed-broadband sub-basket (\$ a month)	29.7	28.6	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	50.5	14.7	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	78.7	66.4	11.1
Trade			
ICT goods exports (% of total goods exports)	0.3	0.1	15.7
ICT goods imports (% of total goods imports)	3.1 12.1	2.6 12.3	14.4 25.7
ICT service exports (% of total service exports)	12.1	12.3	20.7
Applications	0.00	0.24	0.27
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.20 8.3	0.31 17.2	0.37 34.7
	0.0	11.2	54.1

Brazil

Latin America & Caribbean

Upper middle income

			Upper middle-		
			Country data		income group
	2010	2015	2015		
Economic and social context					
Population (millions)	199	208	2,594		
Urban population (% of total)	84	86	64		
GNI per capita, World Bank Atlas method (\$)	9,650	9,850	8,186		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.3	1.2	4.5		
Adult literacy rate (% ages 15 and older)	90	93			
Gross primary, secondary, and tertiary school enrollment (%)	88	89	81		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Private	Private			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	С				
Mobile telephone service	С	С			
Internet service	С	С			
Foreign ownership (not allowed, restricted, allowed)	Α	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	A			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.2		2.1		
Telecommunications investment (% of revenue)	12.5		18.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	21.6	21.4	17.3		
Mobile-cellular telephone subscriptions (per 100 people)	100.9	126.6			
Fixed-broadband subscriptions (per 100 people)	7.2	12.2	15.4		
Households with a computer (%)	34.9	53.5			
Households with Internet access at home (%)	27.1	54.5	52.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	0.2		2.3		
Domestic mobile traffic (minutes/subscription/month)	60.4		173.1		
Individuals using the Internet (%)	40.7	59.14	52.1		
Quality					
Population covered by at least a 3G mobile network (%)	67	94	69		
International Internet bandwidth (bit/s per Internet user)	12,602	43,634	26,098		
Affordability					
Mobile-cellular sub-basket (\$ a month)	57.2	11.9	8.5		
Fixed-broadband sub-basket (\$ a month)	31.2	8.9	15.5		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	30.7	7.5	7.7		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	33.2	12.0	11.1		
Trada					
Trade ICT goods exports (% of total goods exports)	1.0	0.4	15.7		
ICT goods imports (% of total goods imports)	9.5	8.8	13.7		
ICT service exports (% of total service exports)	46.7	56.4	25.7		
Applications Online service index (0-1, 1=highest presence)	0.37	0.60	0.37		
	40.0	77.1	34.7		
Secure Internet servers (per million people)	40.0	11.1	34.7		

44

British Virgin Islands

Latin America & Caribbean

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.03	0.03	1,187
Urban population (% of total)	45	46	81
GNI per capita, World Bank Atlas method (\$)			41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)			1.5
Gross primary, secondary, and tertiary school enrollment (%)	 87		 95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity			0.5
Telecommunications revenue (% of GDP)	 4.6	 8.3	2.5
Telecommunications investment (% of revenue)	4.0	0.3	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	46.9	41.7	41.2
Mobile-cellular telephone subscriptions (per 100 people)	174.6	145.8	124.5
Fixed-broadband subscriptions (per 100 people)	25.3	24.3	31.0
Households with a computer (%)			83.2
Households with Internet access at home (%)			85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	139.8	84.7	
Domestic mobile traffic (minutes/subscription/month)	176.8	118.4	195.9
Individuals using the Internet (%)	37.0		81.0
Quality		91ª	99
Population covered by at least a 3G mobile network (%)	 37,131		99 134,761
International Internet bandwidth (bit/s per Internet user)	57,151		134,701
Affordability			14.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade			
ICT goods exports (% of total goods exports)			9.5
ICT goods imports (% of total goods imports)			11.2
ICT service exports (% of total service exports)			32.0
Applications			0.07
Online service index (0-1, 1=highest presence)	6 820 F	 5,312.6	0.67 1,194.6
Secure Internet servers (per million people)	0,002.0	3,312.0	1,134.0

Brunei Darussalam

East Asia & Pacific

High income

2010 2015 2015 Economic and social context Population (millions) 0.39 0.42 1,187 Urban population (% of total) 76 77 81 GNI per capita, World Bank Atlas method (\$) 32,190 41,366 GDP growth, 2005-10 and 2010-15 (ayg, annual %) 0.1 -0.4 1.5 Adult literacy rate (% ages 15 and older) 96 97 Gross primary, secondary, and tertiary school enrollment (%) 78 82 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Internat service M P P P Poreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) R N P Fixed-telephone subscriptions (per 100 people) 1.4 8.0 31.0		Country	y data	High- income group
Population (millions)0.390.421,187Urban population (% of total)767781GNI per capita, World Bank Atlas method (\$)32,19041,366GDP growth, 2005-10 and 2010-15 (avg. annual %)0.1-0.41.5Adult literacy rate (% ages 15 and older)9697Gross primary, secondary, and tertiary school enrollment (%)788295Sector structureSeparate telecommunications/ICT regulatorYesYesYesSeparate telecommunications/ICT regulatorPPPMobile telephone serviceMPPInternational gateway(s)MRRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)2.5Telecommunications revenue (% of foP)2.510.8.6108.1Itelecommunications nevenue (% of GDP)2.58.031.0Households with a computer (%)79.6*93.4*83.210.0Households with a computer (%)79.6*93.4*83.210.0Households with internet access at home (%)65.0*81.7*81.0UsageInt'l. voice traffic, total (minutes/subscription/month)UsageInt'l. voice traffic (minutes/subscription/month)UsageInt'l. voice traffic (minutes/subscription/month) <th></th> <th>2010</th> <th>2015</th> <th></th>		2010	2015	
Urban population (% of total) 76 77 81 GNI per capita, World Bank Attas method (\$) 32,190 41,366 GDP growth, 2005-10 and 2010-15 (awg. annual %) 0.1 -0.4 1.5 Adult literacy rate (% ages 15 and older) 96 97 Gross primary, secondary, and tertiary school enrollment (%) 78 82 95 Sector structure Sector structure Sector structure Public Public Public Sevel of competition, competition, partial comp., monopoly) International gateway(s) P P Internet service M P P P Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Elecommunications investment (% of GDP) .2.5 Telecommunications investment (% of revenue) .18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 19.9 9.0 41.2		0.30	0.42	1 1 97
GNI per capita, World Bank Atlas method (\$) $32,190$ $41,366$ GDP growth, 2005-10 and 2010-15 (avg, annual %)0.1-0.41.5Adult literacy rate (% ages 15 and older)9697Gross primary, secondary, and tertiary school enrollment (%)788295Sector structureSeparate telecommunications/ICT regulatorYesYesSparate telecommunications/ICT regulatorPesYesYesStatus of main fixed-line telephone operatorPublicPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)MPInternet serviceMPPForeign ownership (not allowed, restricted, allowed)RRRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity19.99.041.2Telecommunications investment (% of revenue)18.8Sector performanceAccess10.8.1124.5Kied-telephone subscriptions (per 100 people)108.6108.1124.5Households with a computer (%)79.6a93.4a83.2Households with laternet access at home (%)65.0a81.7a85.0UsageInternational Internet (%)53.0a71.2a81.0UsageInternational Internet (%)53.0a71.2a81.0UsageInternational Internet (%)53.0a71.2a81.0UsageInternational Internet (%)53.0a71.2				,
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
Gross primary, secondary, and tertiary school enrollment (%) 78 82 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) M P Mobile telephone service M P P Internet service P P Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity . . . Telecommunications revenue (% of GDP) . . . Sector performance Access . . . Fixed-telephone subscriptions (per 100 people) 19.9 9.0 41.2 Mobile-cellular telephone subscriptions (per 100 people) 19.4 83.0 Households with a computer (%) Domestic mobile traffic, total (minutes/subscription/month) Int'. voice traffic, total we	GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.1	-0.4	1.5
Sector structure Sector structure Sector structure Sector structure Subscription Level of competition (competition, partial comp., monopoly) Internet service P P Mobile telephone service Internet service P Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) A Sector efficiency and capacity Telecommunications revenue (% of GDP) . . Sector performance Access Fixed-telephone subscriptions (per 100 people) 19.9 9.0 41.2 Mobile cellular telephone subscriptions (per 100 people) 5.4 Robardolds with a computer (%) 79.6 ^a 93.4 ^a 83.2 Households with a computer (%) . . Domestic mobile traffic (notal (minutes/subscription/month) Population covered by at least a 3G mobile network (%) . 91 99 Int'. voice traffic, t	Adult literacy rate (% ages 15 and older)		97	
Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service M P P Internet service P P Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity - . . Telecommunications revenue (% of GDP) Sector performance A A A A Access Fixed-telephone subscriptions (per 100 people) 19.9 9.0 41.2 Mobile cellular telephone subscriptions (per 100 people) 5.4 8.0 31.0 Households with a computer (%) 79.6° 93.4° 83.2 Households with Internet access at home (%) 65.0° 81.7° 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Int'l. voice traffic (minute	Gross primary, secondary, and tertiary school enrollment (%)	78	82	95
Status of main fixed-line telephone operatorPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)PPInternational gateway(s)PPPMobile telephone serviceMPPForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity2.5Telecommunications revenue (% of GDP)2.5Telecommunications investment (% of revenue)18.8Sector performanceAccessNobile-cellular telephone subscriptions (per 100 people)108.6108.1124.5Fixed-broadband subscriptions (per 100 people)19.63.4°83.283.2Households with a computer (%)79.6°93.4°83.2Households with a computer (%)Domestic mobile traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Data and the transformational Internet bandwidth (bit/s per Internet user)23,55163,090134,761AfordabilityMobile-cellular sub-basket (\$ a month)19.59.014.2Fixed-broadband sub-basket (\$ a month)19.59.014.2Mobile-cb'band, prepaid handset-based, 500 MB (\$ a month)24.020.414.4TradeICIC9.014.2IC	Sector structure			
Level of competition (competition, partial comp., monopoly) P P International gateway(s) P P Mobile telephone service M P Internet service P P Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) . . Telecommunications revenue (% of revenue) . . 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 19.9 9.0 41.2 Mobile-cellular telephone subscriptions (per 100 people) 19.4 80.2 10.4 124.5 Fixed-telephone subscriptions (per 100 people) 54. 8.0 31.0 10.9 9.4 43.2 Households with a computer (%) 79.6 ^a 93.4 ^a 83.2 10.9 19.9 10.6 108.5 10.8 Usage Int'. voice traffic, total (minutes/subscription/month) <td></td> <td></td> <td></td> <td></td>				
International gateway(s)PPMobile telephone serviceMPInternet servicePPForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityImage: treatment of VoIP (banned, closed, no framework, allowed)ASector efficiency and capacityImage: treatment of VoIP (banned, closed, no framework, allowed)ASector efficiency and capacityImage: treatment of VoIP (banned, closed, no framework, allowed)ASector performanceAccessImage: treatment of VoIP (banned, closed, no framework, allowed)ASector performanceAccessImage: treatment of VoIP (banned, closed, no framework, allowed)AMobile-cellular telephone subscriptions (per 100 people)19.99.041.2Mobile-cellular telephone subscription (per 100 people)108.6108.1124.5Fixed-telephone subscriptions (per 100 people)5.48.031.0Households with a computer (%)79.6 ^a 93.4 ^a 83.2Households with Internet access at home (%)65.0 ^a 81.7 ^a 85.0UsageInt'l. voice traffic, total (minutes/subscription/month)Individuals using the Internet (%)53.0 ^a 71.2 ^a 81.0QualityPopulation covered by at least a 3G mobile network (%).9199International Internet bandwidth (bit/s per Internet user)23.55163.090134.761Affordability <td></td> <td>Public</td> <td>Public</td> <td></td>		Public	Public	
Mobile telephone serviceMPInternet servicePPForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)Telecommunications investment (% of revenue)Sector performanceAccessFixed-telephone subscriptions (per 100 people)19.99.0Mobile-cellular telephone subscriptions (per 100 people)5.48.0Households with a computer (%)79.6ª93.4ª83.2Households with a computer (%)Domestic mobile traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Population covered by at least a 3G mobile network (%).9199Mobile-cellular sub-basket (\$ a month)19.59.014.2Mobile-cellular sub-basket (\$ a month)Domestic mobile traffic, total goods exports)0.30.29.5ICT goods exports (% of total goods exports)0.30.29.5ICT goods imports (% of total goods imports).1.4TradeICT service exports (% of total service exports)21.4Domestic mobile service index				
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ICT goods exports (% of total goods exports) 0.3 0.2 9.5 ICT goods imports (% of total goods imports) 4.1 4.9 11.2 ICT service exports (% of total service exports) 21.4 32.0 Applications 0.28 0.36 0.67	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	24.0	20.4	14.4
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Online service index (0-1, 1=highest presence) 0.28 0.36 0.67	ICT service exports (% of total service exports)	21.4		32.0
Online service index (0-1, 1=highest presence) 0.28 0.36 0.67	Applications			
Secure Internet servers (per million people) 66.1 203.2 1,194.6		0.28	0.36	0.67
	Secure Internet servers (per million people)	66.1	203.2	1,194.6

Bulgaria

Europe & Central Asia

Upper middle income

			Upper middle-
	Count	Country data g	
	2010	2015	2015
Economic and social context			
Population (millions)	7	7	2,594
Urban population (% of total)	72	74	64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	6,840 3.1	7,220 1.4	
Adult literacy rate (% ages 15 and older)	98		
Gross primary, secondary, and tertiary school enrollment (%)	81		
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly) International gateway(s)	Р	Р	
Mobile telephone service	P		
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.4		
Telecommunications investment (% of revenue)	31.8	26.9	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	29.3	23.3	17.3
Mobile-cellular telephone subscriptions (per 100 people)	138.0		
Fixed-broadband subscriptions (per 100 people)	15.2	22.4	15.4
Households with a computer (%)	35.1		
Households with Internet access at home (%)	33.1	59.1	52.2
Usage	7.0	0.5	0.0
Int'l. voice traffic, total (minutes/subscription/month)	7.8 108.9		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	46.2	144.2 56.7	52.1
Quality			
Population covered by at least a 3G mobile network (%)	93	100	69
International Internet bandwidth (bit/s per Internet user)	68,091	145,170	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	32.9		
Fixed-broadband sub-basket (\$ a month)	13.4		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.1 6.6		
Trade ICT goods exports (% of total goods exports)	2.5	2.5	15.7
ICT goods imports (% of total goods imports)	5.6		
ICT service exports (% of total service exports)	14.9	21.1	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.41		
Secure Internet servers (per million people)	74.9	181.5	34.7

Burkina Faso

Sub-Saharan Africa

Low income

	Country	Country data		Country data		Country data	
	2010	2015	group 2015				
Economic and social context							
Population (millions)	16	18	638				
Urban population (% of total)	26	30	31				
GNI per capita, World Bank Atlas method (\$)	610	660	620				
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.9 29	4.8 38	5.4				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	29 40	38 47	60				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	Р	С					
Mobile telephone service	P P	P C					
Internet service Foreign ownership (not allowed, restricted, allowed)	P R	R					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	В					
Sector efficiency and capacity Telecommunications revenue (% of GDP)		5.0					
Telecommunications investment (% of revenue)		9.4					
······································							
Sector performance							
Access Fixed-telephone subscriptions (per 100 people)	0.9	0.4	0.9				
Mobile-cellular telephone subscriptions (per 100 people)	36.7	80.6	60.0				
Fixed-broadband subscriptions (per 100 people)	0.1	0.0	0.3				
Households with a computer (%)	2.1ª	5.2ª	4.8				
Households with Internet access at home (%)	2.0ª	12.5ª	7.1				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)		3.9					
Domestic mobile traffic (minutes/subscription/month)	28.4	32.3	48.9				
Individuals using the Internet (%)	2.4ª	11.4ª	9.5				
Quality Population covered by at least a 3G mobile network (%)	0		51				
International Internet bandwidth (bit/s per Internet user)	2,148	 2,862	4,245				
	2,110	2,002	1,2 10				
Affordability							
Mobile-cellular sub-basket (\$ a month)	21.7	9.7	9.4				
Fixed-broadband sub-basket (\$ a month)	83.1	37.2	33.6				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		8.5 8.5	8.0 10.8				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		8.5	10.8				
Trade							
ICT goods exports (% of total goods exports)	0.0	0.0					
ICT goods imports (% of total goods imports)	2.5	2.3	3.4				
ICT service exports (% of total service exports)	21.1	12.8					
Applications		:					
Online service index (0-1, 1=highest presence)	0.16	0.30	0.11				
Secure Internet servers (per million people)	0.3	0.7	1.5				

48

Burundi

Sub-Saharan Africa

Low income

	Country	Country data		ind		Low- incom	
	2010	2015	group 2015				
Economic and social context							
Population (millions)	9	11	638				
Urban population (% of total)	11	12	31				
GNI per capita, World Bank Atlas method (\$)	200	260	620				
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.5	3.4	5.4				
Adult literacy rate (% ages 15 and older)	87	85					
Gross primary, secondary, and tertiary school enrollment (%)	58	62	60				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Public	Public					
Level of competition (competition, partial comp., monopoly)	С	С					
International gateway(s) Mobile telephone service	C	C					
Internet service	C	C					
Foreign ownership (not allowed, restricted, allowed)	A	A					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	3.8	3.5					
Telecommunications investment (% of revenue)							
Contax northermonies							
Sector performance Access							
Fixed-telephone subscriptions (per 100 people)	0.4	0.2	0.9				
Mobile-cellular telephone subscriptions (per 100 people)	18.2ª	46.2	60.0				
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	0.3				
Households with a computer (%)	0.2ª	1.2ª	4.8				
Households with Internet access at home (%)	0.2ª	4.0ª	7.1				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	5.9	1.9					
Domestic mobile traffic (minutes/subscription/month)	23.9	1.5	48.9				
Individuals using the Internet (%)	1.0ª	4.9ª	9.5				
Quality							
Population covered by at least a 3G mobile network (%)	0		51				
International Internet bandwidth (bit/s per Internet user)	1,652	5,702	4,245				
Affordability							
Mobile-cellular sub-basket (\$ a month)		8.0	9.4				
Fixed-broadband sub-basket (\$ a month)		82.9	33.6				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			8.0				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.8				
Trade							
ICT goods exports (% of total goods exports)	0.4	0.6					
ICT goods imports (% of total goods imports)	5.8	4.5	3.4				
ICT service exports (% of total service exports)	3.5	14.1					
Applications							
Online service index (0-1, 1=highest presence)	0.04	0.02	0.11				
Secure Internet servers (per million people)	0.2	0.5	1.5				
······							

Cabo Verde

Sub-Saharan Africa

Lower middle income

		Lo		
			middle- income	
	Countr	y data	group	
	2010	2015	2015	
Economic and social context				
Population (millions)	0.49	0.52	2,927	
Urban population (% of total)	62	66	39	
GNI per capita, World Bank Atlas method (\$)	3,410	3,290	2,035	
GDP growth, 2005-10 and 2010-15 (avg. annual %)	6.1	2.1	5.4	
Adult literacy rate (% ages 15 and older)	85 74	88 77	 68	
Gross primary, secondary, and tertiary school enrollment (%)	14		00	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	С			
Mobile telephone service	С	С		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	A	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed) A	A		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	6.9	3.9		
Telecommunications investment (% of revenue)	32.4	20.7		
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	14.8	11.5	3.5	
Mobile-cellular telephone subscriptions (per 100 people)	76.3	127.2	90.5	
Fixed-broadband subscriptions (per 100 people)	3.3	3.0		
Households with a computer (%)	20.4 7.1	34.2ª 27.0ª		
Households with Internet access at home (%)	1.1	27.0	24.5	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	18.6	16.5		
Domestic mobile traffic (minutes/subscription/month)	65.9	81.1	152.0	
Individuals using the Internet (%)	30.0ª	43.0	28.6	
Quality				
Population covered by at least a 3G mobile network (%)	50	87		
International Internet bandwidth (bit/s per Internet user)	3,179	17,149	10,372	
Affordability	21.0	23.9	6.9	
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	31.6 31.5	23.9 10.0		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	5.8	3.5	5.8	
Mobile-b'band, postpaid computer-based, 300 MB (\$ a month)	18.5	16.0	10.0	
Trade				
ICT goods exports (% of total goods exports)			5.7	
ICT goods imports (% of total goods imports)	7.5	4.4	7.6	
ICT service exports (% of total service exports)	4.8	7.4	48.0	
Applications				
Online service index (0-1, 1=highest presence)	0.27	0.17	0.26	
Secure Internet servers (per million people)	14.3	51.9	7.4	

Cambodia

East Asia & Pacific

Lower middle income

			Lower middle- income
	Country 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	14	16	2,927
Urban population (% of total)	20	21	39
GNI per capita, World Bank Atlas method (\$)	750	1,070	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	6.4	7.2	5.4
Adult literacy rate (% ages 15 and older)	74	78	
Gross primary, secondary, and tertiary school enrollment (%)	63	••	68
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	P	C	
Mobile telephone service	C C	C C	
Internet service Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
	110		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	5.5		
Telecommunications revenue (% of GDP)	69.8		
	00.0		
Sector performance			
Access	2.5	1.6	3.5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	56.7	133.0	90.5
Fixed-broadband subscriptions (per 100 people)	0.2	0.5	1.9
Households with a computer (%)	4.3ª	16.0 ²	
Households with Internet access at home (%)	1.6ª	21.04	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		7.8	7.5
Domestic mobile traffic (minutes/subscription/month)		44.2	152.0
Individuals using the Internet (%)	1.3	19.0ª	28.6
Quality			
Population covered by at least a 3G mobile network (%)	43	70	
International Internet bandwidth (bit/s per Internet user)	27,625	17,792	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	7.7	6.8	6.9
Fixed-broadband sub-basket (\$ a month)	45.0	12.0	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		1.0	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		2.0	10.0
Trade			
ICT goods exports (% of total goods exports)	0.1	1.2	5.7
ICT goods imports (% of total goods imports)	2.5	1.5	7.6
ICT service exports (% of total service exports)	5.8	7.9	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.14	0.17	0.26
Secure Internet servers (per million people)	1.7	5.1	7.4
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Cameroon

Sub-Saharan Africa

Lower middle income

Sub-Saliarali Africa	Lowerm	iuuic i	
	Country	Country data	
	2010	2015	group 2015
Economic and social context			
Population (millions)	21	23	2,927
Urban population (% of total)	52	54	39
GNI per capita, World Bank Atlas method (\$)	1,170	1,330	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.9	5.3	5.4
Adult literacy rate (% ages 15 and older)	71	75	
Gross primary, secondary, and tertiary school enrollment (%)	62		68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)		Р	
Mobile telephone service	С	Р	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	А		
Reg. treatment of VoIP (banned, closed, no framework, allow	ed) B	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.5		
Telecommunications investment (% of revenue)	28.0		
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	2.6	4.5	3.5
Mobile-cellular telephone subscriptions (per 100 people)	41.9	71.8	90.5
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	1.9
Households with a computer (%)	7.2	12.7	19.3
Households with Internet access at home (%)	1.9	8.6	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	5.1		7.5
Domestic mobile traffic (minutes/subscription/month)	38.7		152.0
Individuals using the Internet (%)	4.3ª	20.74	28.6
Quality			
Population covered by at least a 3G mobile network (%)		504	·
International Internet bandwidth (bit/s per Internet user)	363	992	10,372
Affordability	10.0	10.0	
Mobile-cellular sub-basket (\$ a month)	18.8 80.2	10.3 50.6	6.9 14.3
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		50.6 10.1	14.3 5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		13.5	10.0
Trade	0.0		
ICT goods exports (% of total goods exports)	0.0	0.0	5.7
ICT goods imports (% of total goods imports)	2.6	4.2	7.6
ICT service exports (% of total service exports)	30.6	27.4	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.15	0.20	0.26
Secure Internet servers (per million people)	0.5	2.5	7.4

Canada

North America

High income

Z010 Z015 Z015 Economic and social context Population (millions) 34 36 1,187 Urban population (% of total) 81 82 81 GNI per capita, World Bank Atlas method (\$) 44,400 47,500 41,366 GNP growth, 2005-10 and 2010-15 (avg. annual %) 0.8 2.1 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICIT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) C C International gateway(s) C C C C C Foreign ownenship (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications investment (% of fevenue) 20.1 31.9		Country data		High- income group
Population (millions) 34 36 1,187 Urban population (% of total) 81 82 81 GNI per capita, World Bank Atlas method (\$) 44,400 47,500 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.8 2.1 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Sector structure Public Public Public Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) Internet service C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector performance Access Fixed-telephone subscriptions (per 100 people) 75.7 <		2010	2015	
Urban population (% of total) 81 82 81 GNI per capita, World Bank Atlas method (\$) 44,400 47,500 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.8 2.1 1.5 Adult literacy rate (% ages 15 and older)	Economic and social context			
GNI per capita, World Bank Atias method (\$)44,40047,50041,366GDP growth, 2005-10 and 2010-15 (avg, annual %)0.82.11.5Adult literacy rate (% ages 15 and older)Gross primary, secondary, and tertiary school enrollment (%)Sector structureSeparate telecommunications/ICT regulatorYesYesSparate telecommunications/ICT regulatorYesYesYesInternational gateway(s)CCCMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications investment (% of revenue)20.131.918.8Sector performanceAccessFixed-tralephone subscriptions (per 100 people)75.781.9124.5Fixed-talephone subscriptions (per 100 people)75.781.9124.5124.5Individuals using the Internet access at home (%)78.486.6a85.0UsageInternational subscription/month)Domestic mobile traffic (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month) <t< td=""><td>Population (millions)</td><td>34</td><td>36</td><td>1,187</td></t<>	Population (millions)	34	36	1,187
GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.8 2.1 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Sector structure Public Public Public Sector structure C C C C Mobile telephone service C C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VolP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 2.3 2.5 Telecommunications revenue (% of fore runue) 20.1 31.9 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-telephone subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-telephone subscriptions (per 100 people) 75.7 81.9 124.5 Indusidus wi				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) C C International gateway(s) C C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 2.3 2.5 Telecommunications investment (% of revenue) 20.1 31.9 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-bradband subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-bradband subscriptions (per 100 people) 78.4 86.6ª 8		,	,	
Gross primary, secondary, and tertiary school enrollment (%)	o ,			1.5
Separate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityItelecommunications investment (% of revenue)20.131.918.8Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)75.781.9124.5Fixed-telephone subscriptions (per 100 people)75.781.9124.5Fixed-telephone subscriptions (per 100 people)78.486.6a85.0UsageInt'l. voice traffic, total (minutes/subscription/month)Int'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Int'l. voice traffic, total (minutes/subscription/month)36.0409.0195.9134.761Mobile-cellular sub-basket (\$ a month)38.925.114.214.2Fixed-broadband sub-basket (\$ a month)26.249.425.210.4Mobile-cellular sub-basket (\$ a month)26.249.425.210.4Mobile-cellular sub-basket (\$ a month)26.249.425.210.4				95
Status of main fixed-line telephone operatorPublicPublicLevel of competition (competition, partial comp., monopoly)CCInternational gateway(s)CCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity2.52.32.5Telecommunications revenue (% of GDP)2.52.32.5Telecommunications investment (% of revenue)20.131.918.8Sector performanceAAAMobile-cellular telephone subscriptions (per 100 people)75.781.9124.5Fixed-broadband subscriptions (per 100 people)75.781.9124.5Fixed-broadband subscriptions (per 100 people)78.486.6ª85.0UsageIntil. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)36.049.0195.9Individuals using the Internet (%)8899.899.999International Internet bandwidth (bit/s per Internet user)54.738135.496134.761Mobile-cellular sub-basket (\$ a month)38.925.114.2Fixed-broadband sub-basket (\$ a month)26.249.425.210.4Mobile-cellular sub-basket (\$ a month) <t< td=""><td>Sector structure</td><td></td><td></td><td></td></t<>	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s)CCInternational gateway(s)CCCMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity Telecommunications revenue (% of GDP)2.52.32.5Telecommunications investment (% of revenue)20.131.918.8Sector performance Access Fixed-telephone subscriptions (per 100 people)75.781.9124.5Fixed-telephone subscriptions (per 100 people)75.781.9124.5Fixed-telephone subscriptions (per 100 people)75.781.9124.5Households with a computer (%)82.785.1ª83.2Households with a computer (%)82.785.1ª83.2Households with Internet access at home (%)78.486.6ª85.0Usage Intl' voice traffic, total (minutes/subscription/month)Individuals using the Internet (%)86.049.0195.914.2Mobile-cellular sub-basket (\$ a month)38.925.114.2International Internet bandwidth (bit/s per Internet user)54,738135,496134,761Affordability Mobile-cellular sub-basket (\$ a month)26.249.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month).22.5 <td< td=""><td></td><td></td><td></td><td></td></td<>				
International gateway(s)CCCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityElecommunications revenue (% of GDP)2.52.32.5Telecommunications investment (% of revenue)20.131.918.8Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)75.781.9124.5Fixed-telephone subscriptions (per 100 people)75.781.9124.5Fixed-telephone subscriptions (per 100 people)78.486.6ª85.0UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Individuals using the Internet (%)9899ª9999Individuals using the Internet (%)9899ª9999International Internet bandwidth (bit/s per Internet user)54,738135,496134,761AffordabilitySec.249.425.210.4Mobile-cellular sub-basket (\$ a month)26.249.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month).22.510.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)58.840.514.4TradeICICSec.249.91.2ICT good		Public	Public	
Mobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity2.52.32.5Telecommunications revenue (% of GDP)2.52.32.5Telecommunications investment (% of revenue)20.131.918.8Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)75.781.9124.5Fixed-broadband subscriptions (per 100 people)31.736.431.0Households with a computer (%)82.785.1ª83.2Households with a computer (%)78.486.6ª85.0UsageInt'l. voice traffic, total (minutes/subscription/month)Individuals using the Internet (%)80.388.5ª81.0QualityPopulation covered by at least a 3G mobile network (%)9899ª99International Internet bandwidth (bit/s per Internet user)54,738135,496134,761AffordabilityMobile-cellular sub-basket (\$ a month)26.249.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month).22.510.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month).22.510.4Mobile-b'band, prepaid computer-based, 1 GB (\$ a month)58.840.514.4TradeICT goods exports (% of total goods exports)2.8		c	C	
Internet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)2.52.32.5Telecommunications investment (% of revenue)20.131.918.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)53.944.341.2Mobile-cellular telephone subscriptions (per 100 people)75.781.9124.5Fixed-broadband subscriptions (per 100 people)31.736.431.0Households with a computer (%)82.785.1ª83.2Households with Internet access at home (%)78.486.6ª85.0UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)366.0409.0195.9Individuals using the Internet (%)80.388.5ª81.0QualityPopulation covered by at least a 3G mobile network (%)9899ª99International Internet bandwidth (bit/s per Internet user)54,738135,496134,761Affordability22.510.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)22.510.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)2.81.99.5 </td <td></td> <td></td> <td></td> <td></td>				
Reg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity Telecommunications revenue (% of GDP)2.52.32.5Telecommunications investment (% of revenue)20.131.918.8Sector performance Access Fixed-telephone subscriptions (per 100 people)53.944.341.2Mobile-cellular telephone subscriptions (per 100 people)75.781.9124.5Fixed-telephone subscriptions (per 100 people)75.781.9124.5Fixed-broadband subscriptions (per 100 people)36.431.0Households with a computer (%)82.785.1ª83.2Households with Internet access at home (%)78.486.6ª85.0Usage Individuals using the Internet (%)Quality Population covered by at least a 3G mobile network (%)9899a99a99aInternational Internet bandwidth (bit/s per Internet user)54,738135,496134,761Affordability Mobile-cellular sub-basket (\$ a month)22.510.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)22.510.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)28.840.514.4Trade ICT goods exports (% of total goods exports)2.81.99.512.210.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)84.6.911.212.210.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)2.81.99.5<	-			
Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 2.3 2.5 Telecommunications investment (% of GDP) 20.1 31.9 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-broadband subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-broadband subscriptions (per 100 people) 31.7 36.4 31.0 Households with a computer (%) 82.7 85.1ª 83.2 Households with Internet access at home (%) 78.4 86.6ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) 80.3 88.5ª 81.0 Quality Population covered by at least a 3G mobile network (%) 98 99 ^a 99 International Internet bandwidth (bit/s per Internet user) 54,738 134,761 Affordability 22.5 10.4 Mobile-cellular sub-basket (\$ a month)		R	R	
Telecommunications revenue (% of GDP) 2.5 2.3 2.5 Telecommunications investment (% of revenue) 20.1 31.9 18.8 Sector performance Access 124.5 124.5 Fixed-telephone subscriptions (per 100 people) 53.9 44.3 41.2 Mobile-cellular telephone subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-broadband subscriptions (per 100 people) 31.7 36.4 31.0 Households with a computer (%) 82.7 85.1ª 83.2 Households with Internet access at home (%) 78.4 86.6ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 80.3 88.5ª 81.0 . Quality Population covered by at least a 3G mobile network (%) 98 99ª 99 International Internet bandwidth (bit/s per Interne	Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Telecommunications investment (% of revenue) 20.1 31.9 18.8 Sector performance Access 53.9 44.3 41.2 Mobile-cellular telephone subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-broadband subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-broadband subscriptions (per 100 people) 31.7 36.4 31.0 Households with a computer (%) 82.7 85.1ª 83.2 Households with Internet access at home (%) 78.4 86.6ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 98 99a 99 International Internet bandwidth (bit/s per Internet user) 54,738 135,496 134,761 Affordability 22.5 10.4 Mobile-cellular sub-basket (\$ a month) 2				
Sector performanceAccessFixed-telephone subscriptions (per 100 people)53.944.341.2Mobile-cellular telephone subscriptions (per 100 people)75.781.9124.5Fixed-broadband subscriptions (per 100 people)31.736.431.0Households with a computer (%)82.785.1ª83.2Households with nermet access at home (%)78.486.6ª85.0UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Individuals using the Internet (%)80.388.5ª81.0QualityPopulation covered by at least a 3G mobile network (%)9899ª99International Internet bandwidth (bit/s per Internet user)54,738135,496134,761AffordabilityMobile-cellular sub-basket (\$ a month)2.510.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)22.510.4Mobile-b'band, prepaid computer-based, 1 GB (\$ a month)58.840.514.4TradeICT goods exports (% of total goods exports)2.81.99.51.2ICT goods imports (% of total goods imports)8.46.911.21.2ICT service exports (% of total service exports)42.740.632.0Applications </td <td></td> <td></td> <td></td> <td></td>				
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Fixed-telephone subscriptions (per 100 people) 53.9 44.3 41.2 Mobile-cellular telephone subscriptions (per 100 people) 75.7 81.9 124.5 Fixed-broadband subscriptions (per 100 people) 31.7 36.4 31.0 Households with a computer (%) 82.7 85.1ª 83.2 Households with Internet access at home (%) 78.4 86.6ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 80.3 88.5ª 81.0 Quality Population covered by at least a 3G mobile network (%) 98 99ª 99 International Internet bandwidth (bit/s per Internet user) 54,738 135,496 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 38.9 25.1 14.2 14.2 Fixed-broadband sub-basket (\$ a month) </td <td>-</td> <td></td> <td></td> <td></td>	-			
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Int'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)366.0409.0195.9Individuals using the Internet (%)80.388.5ª81.0QualityPopulation covered by at least a 3G mobile network (%)9899ª99International Internet bandwidth (bit/s per Internet user)54,738135,496134,761Affordability38.925.114.2Fixed-broadband sub-basket (\$ a month)38.925.114.2Mobile-cellular sub-basket (\$ a month)26.249.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)22.510.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)58.840.514.4TradeICT goods exports (% of total goods exports)2.81.99.5ICT goods imports (% of total goods imports)8.46.911.2ICT service exports (% of total service exports)42.740.632.0Applications0.880.910.67	Households with Internet access at home (%)	78.4	86.6ª	85.0
Domestic mobile traffic (minutes/subscription/month)366.0409.0195.9Individuals using the Internet (%)80.388.5ª81.0Quality999.199.199.1Population covered by at least a 3G mobile network (%)9899.899.9International Internet bandwidth (bit/s per Internet user)54,738135,496134,761Affordability38.925.114.2Mobile-cellular sub-basket (\$ a month)38.925.114.2Nobile-b'band, prepaid handset-based, 500 MB (\$ a month)22.510.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)58.840.514.4Trade2.81.99.5ICT goods exports (% of total goods exports)8.46.911.2ICT service exports (% of total service exports)42.740.632.0Applications0.880.910.67				
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International Internet bandwidth (bit/s per Internet user) 54,738 135,496 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 38.9 25.1 14.2 Fixed-broadband sub-basket (\$ a month) 26.2 49.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) . . 22.5 10.4 Mobile-b'band, prepaid nandset-based, 1 GB (\$ a month) . 28.8 40.5 14.4 Trade ICT goods exports (% of total goods exports) 2.8 1.9 9.5 ICT goods imports (% of total goods imports) 8.4 6.9 11.2 ICT service exports (% of total service exports) 42.7 40.6 32.0 Applications 0.88 0.91 0.67		98	99 a	99
Mobile-cellular sub-basket (\$ a month) 38.9 25.1 14.2 Fixed-broadband sub-basket (\$ a month) 26.2 49.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 22.5 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 22.5 10.4 Trade ICT goods exports (% of total goods exports) 2.8 1.9 9.5 ICT goods imports (% of total goods imports) 8.4 6.9 11.2 ICT service exports (% of total service exports) 42.7 40.6 32.0 Applications 0.98 0.91 0.67		54,738	135,496	134,761
Fixed-broadband sub-basket (\$ a month) 26.2 49.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 22.5 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 22.5 10.4 Trade ICT goods exports (% of total goods exports) 2.8 1.9 9.5 ICT goods imports (% of total goods imports) 8.4 6.9 11.2 ICT service exports (% of total service exports) 42.7 40.6 32.0 Applications 0.88 0.91 0.67	Affordability			
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)22.510.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)28.840.514.4TradeICT goods exports (% of total goods exports)2.81.99.5ICT goods imports (% of total goods imports)8.46.911.2ICT service exports (% of total service exports)42.740.632.0Applications0.880.910.67	Mobile-cellular sub-basket (\$ a month)	38.9		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)58.840.514.4Trade ICT goods exports (% of total goods exports)2.81.99.5ICT goods imports (% of total goods imports)8.46.911.2ICT service exports (% of total service exports)42.740.632.0Applications Online service index (0-1, 1=highest presence)0.880.910.67		26.2		
TradeICT goods exports (% of total goods exports)2.81.99.5ICT goods imports (% of total goods imports)8.46.911.2ICT service exports (% of total service exports)42.740.632.0Applications0.880.910.67				
ICT goods exports (% of total goods exports)2.81.99.5ICT goods imports (% of total goods imports)8.46.911.2ICT service exports (% of total service exports)42.740.632.0Applications0.880.910.67	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	58.8	40.5	14.4
ICT goods imports (% of total goods imports) 8.4 6.9 11.2 ICT service exports (% of total service exports) 42.7 40.6 32.0 Applications 0.88 0.91 0.67		20	10	05
ICT service exports (% of total service exports) 42.7 40.6 32.0 Applications 0.88 0.91 0.67				
Online service index (0-1, 1=highest presence)0.880.910.67				
Online service index (0-1, 1=highest presence)0.880.910.67	Applications			
Secure Internet servers (per million people) 1,242.7 1,308.8 1,194.6		0.88	0.91	0.67
	Secure Internet servers (per million people)	1,242.7	1,308.8	1,194.6

Cayman Islands

Latin America & Caribbean

High income

	Counti	y data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.06	0.06	1,187
Urban population (% of total)	100	100	81
GNI per capita, World Bank Atlas method (\$)			41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	 99		1.5
Gross primary, secondary, and tertiary school enrollment (%)			
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No		
Sector efficiency and capacity			0.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)		 21.5	2.5 18.8
		21.5	10.0
Sector performance			
Access	07.0		44.0
Fixed-telephone subscriptions (per 100 people)	67.3 181.2	55.9 155.5	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	34.0	45.7	31.0
Households with a computer (%)	73.8	72.1	83.2
Households with Internet access at home (%)	65.2	70.1	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)	66.0ª	77.0ª	81.0
Quality Population covered by at least a 3G mobile network (%)	100	100	99
International Internet bandwidth (bit/s per Internet user)			
Affordability			
Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade			
ICT goods exports (% of total goods exports)			9.5
ICT goods imports (% of total goods imports)			11.2 32.0
ICT service exports (% of total service exports)			52.0
Applications			0.67
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 1 927 6	 2,284.6	0.67
	1,321.0	2,204.0	1,134.0

54

Central African Republic

Sub-Saharan Africa

Low income

201020152015Economic and social contextPopulation (millions)4563Urban population (% of total)394033GNI per capita, World Bank Atlas method (\$)47032062GDP growth, 2005-10 and 2010-15 (avg. annual %)2.9-9.85Adult literacy rate (% ages 15 and older)373737Gross primary, secondary, and tertiary school enrollment (%)4266Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)CMobile telephone serviceCCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)CCCSector efficiency and capacityTelecommunications investment (% of GDP)2.42.7CTelecommunications investment (% of revenue)56.3CSector performanceAccessFixed-telephone subscriptions (per 100 people)0.0Mobile-cellular telephone subscriptions (per 100 people)0.00Households with a computer (%)2.1ª3.5ª4Households with internet access at home (%)1.6ª2.9ª7	Economic and social context Population (millions) 4 Urban population (% of total) 35 GNI per capita, World Bank Atlas method (\$) 470		group 2015
Population (millions)4563Urban population (% of total)394033GNI per capita, World Bank Atlas method (\$)47032062GDP growth, 2005-10 and 2010-15 (avg. annual %)2.9-9.855Adult literacy rate (% ages 15 and older)373737Gross primary, secondary, and tertiary school enrollment (%)4266Sector structureSector structureSector structureSector structure5Status of main fixed-line telephone operatorMixedPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)CMobile telephone serviceCCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)CCSector performanceAccessSector performanceAcceesAccees0.00.00Households with a computer (%)2.1ª3.5ª4Households with a computer (%)2.1ª3.5ª4Households with Internet access at home (%)1.6ª2.9ª7UsageUsageUsage	Population (millions)2Urban population (% of total)39GNI per capita, World Bank Atlas method (\$)470	4 5	
Urban population (% of total)394033GNI per capita, World Bank Atlas method (\$)47032062GDP growth, 2005-10 and 2010-15 (avg. annual %)2.9-9.85Adult literacy rate (% ages 15 and older)373767Gross primary, secondary, and tertiary school enrollment (%)4266Sector structureSector structureSector structure9Separate telecommunications/ICT regulatorYesYesYesLevel of competition (competition, partial comp., monopoly)111International gateway(s)CMobile telephone serviceCCInternet serviceCCCC1Foreign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)CCCSector efficiency and capacityTelecommunications investment (% of GDP)2.42.77Telecommunications investment (% of revenue)56.3SSector performanceAccess00.00Mobile-cellular telephone subscriptions (per 100 people)0.000Households with a computer (%)2.1ª3.5ª44Households with a computer (%)2.1ª3.5ª7Usage	Urban population (% of total) 38 GNI per capita, World Bank Atlas method (\$) 470	4 5	
GNI per capita, World Bank Atlas method (\$)47032062GDP growth, 2005-10 and 2010-15 (avg. annual %)2.9-9.85Adult literacy rate (% ages 15 and older)373737Gross primary, secondary, and tertiary school enrollment (%)426Sector structureSeparate telecommunications/ICT regulatorYesYesSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorMixedPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)CInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)CCSector performanceAccessAccessFixed-telephone subscriptions (per 100 people)0.00.0Mobile-cellular telephone subscriptions (per 100 people)0.00Households with a computer (%)2.1ª3.5ª4Households with a computer (%)2.1ª3.5ª7UsageUsage1.6ª2.9ª7	GNI per capita, <i>World Bank Atlas</i> method (\$) 470		638
GDP growth, 2005-10 and 2010-15 (avg. annual %) 2.9 -9.8 5 Adult literacy rate (% ages 15 and older) 37 37 37 Gross primary, secondary, and tertiary school enrollment (%) 42 66 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) C Internet service C C C Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) C C Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.4 2.7 Telecommunications investment (% of revenue) 56.3 Sector performance Access Access 0.0 0.0 Fixed-telephone subscriptions (per 100 people) 0.0 0 0 0 Households with a computer (%) 2.1 ^a 3.5 ^a 4 4 4		9 40	
Adult literacy rate (% ages 15 and older) 37 37 37 Gross primary, secondary, and tertiary school enrollment (%) 42 66 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C C Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) C C Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.4 2.7 Telecommunications investment (% of revenue) 56.3 Sector performance Access Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0 Households with a computer (%) 2.1ª 3.5ª 4 4 4 4 Usage Usage 1.6ª 2.9ª 7 4	GDP growth, 2005–10 and 2010–15 (avg. annual %) 2.9		
Gross primary, secondary, and tertiary school enrollment (%) 42 6 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) C C Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.4 2.7 Telecommunications revenue (% of GDP) 2.4 2.7 Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0 Households with a computer (%) 2.1 ^a 3.5 ^a 4 Households with Internet access at home (%) 1.6 ^a 2.9 ^a 7			
Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C C Mobile telephone service C C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) C C Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.4 2.7 Telecommunications investment (% of revenue) 56.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0 Households with a computer (%) 2.1 ^a 3.5 ^a 4 Households with Internet access at home (%) 1.6 ^a 2.9 ^a 7			
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Telecommunications investment (% of revenue) 56.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0 Mobile-cellular telephone subscriptions (per 100 people) 22.5 20.4 60 Fixed-broadband subscriptions (per 100 people) 0.0 0 Households with a computer (%) 2.1ª 3.5ª 4 Households with Internet access at home (%) 1.6ª 2.9ª 7 Usage	Sector efficiency and capacity		
Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0 Mobile-cellular telephone subscriptions (per 100 people) 22.5 20.4 60 Fixed-broadband subscriptions (per 100 people) 0.0 0 Households with a computer (%) 2.1 ^a 3.5 ^a 4 Households with Internet access at home (%) 1.6 ^a 2.9 ^a 7 Usage Usage Usage Usage Usage Usage			
Access 0.0 0.0 0.0 0.0 Fixed-telephone subscriptions (per 100 people) 0.2.5 20.4 60 Mobile-cellular telephone subscriptions (per 100 people) 22.5 20.4 60 Fixed-broadband subscriptions (per 100 people) 0.0 00 Households with a computer (%) 2.1ª 3.5ª 4 Households with Internet access at home (%) 1.6ª 2.9ª 7	Telecommunications investment (% of revenue) 56.3	3	
Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0 Mobile-cellular telephone subscriptions (per 100 people) 22.5 20.4 60 Fixed-broadband subscriptions (per 100 people) 0.0 00 Households with a computer (%) 2.1 ^a 3.5 ^a 4 Households with Internet access at home (%) 1.6 ^a 2.9 ^a 7	-		
Mobile-cellular telephone subscriptions (per 100 people) 22.5 20.4 60 Fixed-broadband subscriptions (per 100 people) 0.0 0 Households with a computer (%) 2.1ª 3.5ª 4 Households with Internet access at home (%) 1.6ª 2.9ª 7 Usage Usage Usage Usage Usage		n n n	0.9
Fixed-broadband subscriptions (per 100 people) 0.0 0 Households with a computer (%) 2.1 ^a 3.5 ^a 4 Households with Internet access at home (%) 1.6 ^a 2.9 ^a 7 Usage Usage Usage Usage Usage			
Households with a computer (%) 2.1 ^a 3.5 ^a 4 Households with Internet access at home (%) 1.6 ^a 2.9 ^a 7 Usage Usage Usage Usage Usage	······································	2	0.0
Usage			
	Households with Internet access at home (%) 1.6	6ª 2.9	a 7.1
Int'l. voice traffic, total (minutes/subscription/month) 4.5 2.8			
Individuals using the Internet (%) 2.0 ^a 4.6 ^a 9		J ^a 4.0	a 9.5
QualityPopulation covered by at least a 3G mobile network (%)0235) 23	51
Affordability	Affordability		
Mobile-cellular sub-basket (\$ a month) 12.9 11.5 9	Mobile-cellular sub-basket (\$ a month) 12.9		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,	5 488.6	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 10	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		10.8
Trade 0.2 0.0		, nn	
Second Se			
ICT service exports (% of total service exports)			
Applications	Applications		
		0.04	0.11
Secure Internet servers (per million people) 0.2 0.2 1	Secure Internet servers (per million people) 0.2	2 0.2	1.5

Chad

Sub-Saharan Africa

Low income

	Country	y data	Low- income group
	2010	2015	2015
Economic and social context			
Population (millions)	12	14	638
Urban population (% of total)	22	22	31
GNI per capita, World Bank Atlas method (\$)	910	880	620
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.5	5.3	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 43	40 	 60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service	С	C	
Foreign ownership (not allowed, restricted, allowed)	R B	A B	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.1	2.6	
Telecommunications investment (% of revenue)	2.1	2.0	
Sector performance			
Access	0.4	0.1	0.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	24.5	40.2	60.0
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	0.3
Households with a computer (%)	1.1ª	3.5ª	
Households with Internet access at home (%)	0.9ª	3.1ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	3.4	3.5	
Domestic mobile traffic (minutes/subscription/month)	31.1	41.2	48.9
Individuals using the Internet (%)	1.7ª	2.7ª	9.5
Quality		13	51
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 96	2,575	4.245
international internet bandwidth (bit/s per internet user)	50	2,515	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)		15.8	9.4
Fixed-broadband sub-basket (\$ a month)		500.8	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		8.5 17.4	8.0 10.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		17.4	10.0
Trade			
ICT goods exports (% of total goods exports)			 3.4
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)			5.4
יטי שנייוטב באטינש (אי טי נטנמי שנייוטב באטונש)			
Applications	0.00	0.05	
Online service index (0-1, 1=highest presence)	0.02	0.05	0.11
Secure Internet servers (per million people)		0.2	1.5

Channel Islands

Europe & Central Asia

High income

201020152015Economic and social contextPopulation (millions)0.160.161,18Urban population (% of total)31313131GNI per capita, World Bank Atlas method (\$)41,36GDP growth, 2005-10 and 2010-15 (avg. annual %)Aduit literacy rate (% ages 15 and older)Gross primary, secondary, and tertiary school enrollment (%)Sector structureSeparate telecommunications/ICT regulatorMobile telephone serviceInternet serviceMobile telephone serviceInternet serviceForeign ownership (not allowed, restricted, allowed) <td< th=""><th></th><th>Countr</th><th>y data</th><th>High- income group</th></td<>		Countr	y data	High- income group
Population (millions)0.160.160.161.18Urban population (% of total)3131318GNI per capita, World Bank Atlas method (\$)41,36GDP growth, 2005-10 and 2010-15 (avg. annual %)1.Adult literacy rate (% ages 15 and older)9Sector structure9Sector structureStatus of main fixed-line telephone operatorLevel of competition (competition, partial comp., monopoly)International gateway(s)Mobile telephone serviceInternet serviceForeign ownership (not allowed, restricted, allowed)2.Reg. treatment of VoIP (banned, closed, no framework, allowed)2.Telecommunications revenue (% of GDP)124.Fixed-telephone subscriptions (per 100 people)124.Fixed-telephone subscriptions (per 100 people)Households with a computer (%)Households with Internet access at home (%)Domestic mobile traffic (minutes/subscription/month)Individuals using the Internet (%) <th>-</th> <th>2010</th> <th>2015</th> <th></th>	-	2010	2015	
Urban population (% of total) 31	Economic and social context			
GNI per capita, World Bank Atlas method (\$)	Population (millions)	0.16		1,187
GDP growth, 2005-10 and 2010-15 (avg. annual %) 1. Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 9 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Itelecommunications investment (% of revenue) 1.1. Mobile-cellular telephone subscriptions (per 100 people) <	Urban population (% of total)	31	31	81
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications investment (% of GDP) Sector performance Mobile-cellular telephone subscriptions (per 100 people) Hive-broadband subscriptions (per 100 people)				41,366
Gross primary, secondary, and tertiary school enrollment (%) 9 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Internet cellular telephone subscriptions (per 100 people) Kixed-telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)				1.5
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Induscholds with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by at least a 3G mobile network (%) Mobile-cellular sub-basket (\$ a month) International Internet bandwidth (bit/s per Internet user) Individuals using the Internet (%) Mobile-cellular sub-basket (\$ a month) Individuals using the acception (§ a month) International Inter				
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with a computer (%) Int". voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) International Internet bandwidth (bit/s per Internet user) Individuals using the Internet (%) Usage Int". voice traffic, total (minutes/subscription/month)	Gross primary, secondary, and tertiary school enrollment (%)			95
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Int'l				
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Moseholds with a computer (%) Households with a computer (%) Moseholds with laternet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) Mobile-cellular sub-basket (\$ a month) International Internet bandwidth (bit/s per Internet user) Individuals using the Internet (\$ a month) Individuals using the internet bandwidth (bit/s per Internet				
International gateway(s)				
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Individuals using the Internet (%) Quality Population covered by at least a 3G mobile network (%) <				
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) 83: Households with laternet access at home (%) 85: Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Population covered by at least a				
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Households with a computer (%) 83. Households with a computer (%) 85. Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Quality Population covered by at least a 3G mobile network (%) Individuals using the Internet (%)	•			
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with a computer (%) Mosile craffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) Mobile-cellular sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Trade				
Telecommunications revenue (% of GDP) 2. Telecommunications investment (% of revenue) 18. Sector performance Access 14. Mobile-cellular telephone subscriptions (per 100 people) 124. Fixed-telephone subscriptions (per 100 people) 31. Households with a computer (%) 83. Households with internet access at home (%) 85. Usage 85. Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 81. Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) Affordability Mobile-cellular sub-ba	• • • • •			
Telecommunications revenue (% of GDP) 2. Telecommunications investment (% of revenue) 18. Sector performance Access 124. Fixed-telephone subscriptions (per 100 people) 124. Fixed-telephone subscriptions (per 100 people) 31. Households with a computer (%) 83. Households with internet access at home (%) 85. Usage 81. Domestic mobile traffic (minutes/subscription/month) 97. Individuals using the Internet (%) 134.76 Quality 134.76 Affordability 14. Fixed-broadband sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Mobile-cb'band, prepaid handset-based, 500 MB (\$ a month)	Sector efficiency and canacity			
Telecommunications investment (% of revenue) 18. Sector performance Access Fixed-telephone subscriptions (per 100 people) 41. Mobile-cellular telephone subscriptions (per 100 people) 124. Fixed-broadband subscriptions (per 100 people) 124. Households with a computer (%) 83. Households with a computer (%) 85. Usage 85. Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 81. Quality Population covered by at least a 3G mobile network (%) Affordability Mobile-cellular sub-basket (\$ a month) Mobile-b'band, pre				2.5
Access Fixed-telephone subscriptions (per 100 people)	. ,			18.8
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) Affordability 134,76 Affordability 14. Fixed-broadband sub-basket (\$ a month) 14. Fixed-broadband, prepaid handset-based, 500 MB (\$ a month) 14. Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14. Trade	Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%)			41.2 124.5 31.0 83.2 85.0
Population covered by at least a 3G mobile network (%) .9 International Internet bandwidth (bit/s per Internet user) .134,76 Affordability .144. Fixed-broadband sub-basket (\$ a month) .14. Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 10. Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14. Trade	Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)			 195.9 81.0
International Internet bandwidth (bit/s per Internet user) .134,76 Affordability .14. Mobile-cellular sub-basket (\$ a month) 14. Fixed-broadband sub-basket (\$ a month) 25. Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 10. Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14. Trade	Quality			
Affordability				99
Mobile-cellular sub-basket (\$ a month) 14. Fixed-broadband sub-basket (\$ a month) 25. Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 10. Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14. Trade	International Internet bandwidth (bit/s per Internet user)			134,761
Fixed-broadband sub-basket (\$ a month) 25. Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 10. Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14. Trade	•			14.0
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) .10. Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) .14. Trade				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14. Trade				
				10.4 14.4
	Trade			
	ICT goods exports (% of total goods exports)			9.5
8				11.2
				32.0
Applications	Applications			
Online service index (0-1, 1=highest presence) 0.6	Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people) 1,194.	Secure Internet servers (per million people)			1,194.6

Chile

Latin America & Caribbean

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	17	18	1,187
Urban population (% of total)	89	90	81
GNI per capita, World Bank Atlas method (\$)	10,800	14,060	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.2	3.8	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	97 90	97 96	 95
Sector structure Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.8	3.8	2.5
Telecommunications investment (% of revenue)	24.7	19.4	18.8
Sector performance			
Access	20.2	19.2	41.2
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	115.8	129.5	124.5
Fixed-broadband subscriptions (per 100 people)	10.4	15.2	31.0
Households with a computer (%)	46.8ª		
Households with Internet access at home (%)	35.0ª	59.7ª	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	2.3	1.6	
Domestic mobile traffic (minutes/subscription/month)	87.3	104.4	195.9
Individuals using the Internet (%)	45.0ª	64.3ª	81.0
Quality			
Population covered by at least a 3G mobile network (%)		90ª	
International Internet bandwidth (bit/s per Internet user)	19,099	129,825	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	23.7	20.0	14.2
Fixed-broadband sub-basket (\$ a month)	39.4	26.0	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	20.5 26.5	6.1 18.2	10.4 14.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.0	10.2	14.4
Trade	0.4	0.5	9.5
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	7.9	7.2	9.5 11.2
ICT service exports (% of total service exports)	20.2	30.4	32.0
A			
Applications Online service index (0-1, 1=highest presence)	0.61	0.82	0.67
Secure Internet servers (per million people)	53.1	145.1	1,194.6
	55.1	0.1	_,

China

East Asia & Pacific

Upper middle income

			Upper middle-
	Country	y data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	1,338	1,371	2,594
Urban population (% of total)	49	56	64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	4,300 11.1	7,820 7.7	8,186 4.5
Adult literacy rate (% ages 15 and older)	95	96	4.5
Gross primary, secondary, and tertiary school enrollment (%)	69	78	81
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly) International gateway(s)	Р	Р	
Mobile telephone service		P	
Internet service		С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	No	
Sector efficiency and capacity	0.0	1.0	0.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.2 35.6	1.8 34.6	2.1 18.8
	00.0	0 1.0	
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	21.6	16.5	17.3
Mobile-cellular telephone subscriptions (per 100 people)	63.2	93.2	105.1
Fixed-broadband subscriptions (per 100 people)	9.3 35.4ª	18.6	15.4 48.7
Households with a computer (%) Households with Internet access at home (%)	35.4ª 23.7ª	49.6ª 54.2ª	
		-	
Usage Int'l. voice traffic, total (minutes/subscription/month)	1.3	0.8	2.3
Domestic mobile traffic (minutes/subscription/month)	419.1	189.7	173.1
Individuals using the Internet (%)	34.3	50.3ª	52.1
Quality			
Population covered by at least a 3G mobile network (%)	 2.256	57 6 520	69
International Internet bandwidth (bit/s per Internet user)	2,356	6,530	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	6.0	4.0	8.5
Fixed-broadband sub-basket (\$ a month)	17.8	19.3 4.8	15.5 7.7
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 185.4	4.8 8.0	11.1
Trade			
Trade ICT goods exports (% of total goods exports)	29.1	25.9	15.7
ICT goods imports (% of total goods imports)	20.4	19.7	14.4
ICT service exports (% of total service exports)	-6.1	28.9	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.37	0.61	0.37
Secure Internet servers (per million people)	1.9	10.1	34.7

Colombia

Latin America & Caribbean

Upper middle income

			Upper
			middle- income
	2010	ry data 2015	group 2015
	2010	2013	2015
Economic and social context	46	48	2,594
Population (millions)	40 75	40 76	2,394
Urban population (% of total)	5,540	7,130	
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	5,540 4.4	4.6	
	4.4	4.0	
Adult literacy rate (% ages 15 and older)	93 89	90 88	
Gross primary, secondary, and tertiary school enrollment (%)	09	00	01
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	Р	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed) А	A	
Sector officiancy and conceity			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.2	5.0	2.1
Telecommunications investment (% of revenue)	17.8		
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	15.5 95.8 5.7 26.1	14.4 115.7 11.2 45.5	17.3 105.1 15.4 48.7
Households with Internet access at home (%)	19.3	41.8	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	6.2	7.8	2.3
Domestic mobile traffic (minutes/subscription/month)	323.2	364.7	173.1
Individuals using the Internet (%)	36.5	55.9	52.1
Quality			
Population covered by at least a 3G mobile network (%)	100	100	69
International Internet bandwidth (bit/s per Internet user)	10,212	105,050	26,098
Affordability	<u></u>	12.2	0 5
Mobile-cellular sub-basket (\$ a month)	22.2	13.3	8.5
Fixed-broadband sub-basket (\$ a month)	35.2	13.5	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	30.6	15.0	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	17.8	10.9	11.1
Trade			
ICT goods exports (% of total goods exports)	0.1	0.2	
ICT goods imports (% of total goods imports)	9.6	10.2	14.4
ICT service exports (% of total service exports)	17.1	13.9	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.71	0.79	0.37
Secure Internet servers (per million people)	14.4	57.3	34.7

Comoros

Sub-Saharan Africa

Low income

	Country	v data	Low- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	0.70	0.79	638
Urban population (% of total)	28	28	31
GNI per capita, World Bank Atlas method (\$)	760	790	620
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.4	2.9	5.4
Adult literacy rate (% ages 15 and older)		78	
Gross primary, secondary, and tertiary school enrollment (%)		65	60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly) International gateway(s)	М	М	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.5		
Telecommunications investment (% of revenue)	13.8		
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	3.1	3.1	0.9
Mobile-cellular telephone subscriptions (per 100 people)	24.2	54.8	60.0
Fixed-broadband subscriptions (per 100 people)	0.0	0.3	0.3 4.8
Households with a computer (%) Households with Internet access at home (%)	5.2ª 2.4ª	8.1ª 4.7ª	
	2.4-	4.75	7.1
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	42.1		48.9
Individuals using the Internet (%)	5.1ª	7.5ª	
Quality			
Quality Population covered by at least a 3G mobile network (%)			51
International Internet bandwidth (bit/s per Internet user)	4,765	11,664	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	13.5	8.9	9.4
Fixed-broadband sub-basket (\$ a month)	80.2	41.7	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		11.3	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		16.9	10.8
Trade			
ICT goods exports (% of total goods exports)	0.1	0.0	
ICT goods imports (% of total goods imports)	1.8	5.9	3.4
ICT service exports (% of total service exports)	22.2		
Applications	0.00	0.00	0.14
Online service index (0-1, 1=highest presence)	0.03 1.4	0.02 1.3	0.11 1.5
Secure Internet servers (per million people)	1.4	1.3	1.0

Congo, Dem. Rep.

Sub-Saharan Africa

Low income

	Country	y data	Low- income group
	2010	2015	2015
Economic and social context			
Population (millions)	66	77	638
Urban population (% of total)	40	42	31
GNI per capita, World Bank Atlas method (\$)	300	410	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.4 75	7.8 77	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	57	59	60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)	0	0	
International gateway(s) Mobile telephone service	C C	C C	
Internet service	c	C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	C	C	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.9	3.0	
Telecommunications investment (% of revenue)	20.3		
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	0.1	0.0	0.9
Mobile-cellular telephone subscriptions (per 100 people)	19.0	53.0	60.0
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	0.3
Households with a computer (%)	0.7ª	2.3ª	4.8
Households with Internet access at home (%)	0.6ª	2.4ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	3.2 55.1	2.1 33.0	 48.9
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	0.7	33.0 3.8ª	
Quality			
Population covered by at least a 3G mobile network (%)	0	20	51
International Internet bandwidth (bit/s per Internet user)	246	369	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	11.9	9.8	9.4
Fixed-broadband sub-basket (\$ a month)	400.2	397.7 15.0	33.6 8.0
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.0 50.0	20.0	10.8
Trade ICT goods exports (% of total goods exports)			
ICT goods imports (% of total goods imports)			3.4
ICT service exports (% of total service exports)	37.3	10.0	
Applications	0.00	0.05	0.44
Online service index (0-1, 1=highest presence)	0.09 0.1	0.05 0.3	0.11 1.5
Secure Internet servers (per million people)	0.1	0.3	1.5

62

Congo, Rep.

Sub-Saharan Africa

Lower middle income

			Lower middle- income
	Country	/ data 2015	group 2015
Economic and social context			
Population (millions)	4	5	2,927
Urban population (% of total)	63	65	39
GNI per capita, World Bank Atlas method (\$)	2,230	2,540	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.9	4.2	5.4
Adult literacy rate (% ages 15 and older)	79	79	
Gross primary, secondary, and tertiary school enrollment (%)	67		68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С		
Mobile telephone service	C C		
Internet service Foreign ownership (not allowed, restricted, allowed)	A	 R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	c	A	
	0		
Sector efficiency and capacity	25		
Telecommunications revenue (% of GDP)	3.5 17.7		
Telecommunications investment (% of revenue)	11.1		
Sector performance			
Access	0.3	0.4	3.5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	0.3 90.4	0.4	3.5 90.5
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	1.9
Households with a computer (%)	3.5 ^a	5.2ª	
Households with Internet access at home (%)	0.7ª	2.34	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	8.2		7.5
Domestic mobile traffic (minutes/subscription/month)	21.1		152.0
Individuals using the Internet (%)	5.0ª	7.64	28.6
Quality			
Population covered by at least a 3G mobile network (%)			
International Internet bandwidth (bit/s per Internet user)	117	185	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)		8.2	6.9
Fixed-broadband sub-basket (\$ a month)		81.8	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	24.5	5.0	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		16.9	10.0
Trade			
ICT goods exports (% of total goods exports)	0.0	0.0	5.7
ICT goods imports (% of total goods imports)	0.9	2.1	7.6
ICT service exports (% of total service exports)			48.0
Applications			
Online service index (0-1, 1=highest presence)	0.08	0.10	0.26
Secure Internet servers (per million people)	1.2	1.7	7.4
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Costa Rica

Latin America & Caribbean

Upper middle income

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	Counti	w data	Upper middle- income
	2010	2015	group 2015
	2010	2015	2015
Economic and social context	5	5	2,594
Population (millions) Urban population (% of total)	72	77	2,394
GNI per capita, World Bank Atlas method (\$)	7,100	10,210	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.2	3.9	,
Adult literacy rate (% ages 15 and older)	97	98	
Gross primary, secondary, and tertiary school enrollment (%)	90	94	81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	Р	С	
Mobile telephone service	М	Р	
Internet service	Р	С	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) A	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	1.1	3.2	2.1
Telecommunications investment (% of revenue)	68.9	28.9	18.8
Sector performance			
Access	00.7	17.0	47.0
Fixed-telephone subscriptions (per 100 people)	22.7	17.2	17.3
Mobile-cellular telephone subscriptions (per 100 people)	67.0 8.5	150.7 11.2	
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	41.3	53.2	
Households with Internet access at home (%)	24.1	60.2	
	2 1.1	00.2	
Usage	8.4	8.1	2.3
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	100.9	104.0	
Individuals using the Internet (%)	36.5	59.8	
	00.0	00.0	02.1
Quality	45	99	69
Population covered by at least a 3G mobile network (%)	45 12,657	99 61,746	
International Internet bandwidth (bit/s per Internet user)	12,057	01,740	20,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	3.4	3.9	8.5
Fixed-broadband sub-basket (\$ a month)	14.7 17.9	18.3 8.2	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	17.9	0.2 11.2	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	10.4	11.2	11.1
Trade	40.0	04.0	45 7
ICT goods exports (% of total goods exports)	19.9	21.9	
ICT goods imports (% of total goods imports)	17.7	18.5	
ICT service exports (% of total service exports)	36.5	44.9	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.30	0.61	0.37
Secure Internet servers (per million people)	110.4	103.6	34.7

Côte d'Ivoire

Sub-Saharan Africa

Lower middle income

			Lower middle-
	Country	/ data 2015	income group 2015
Economic and social context			
Population (millions)	20	23	2,927
Urban population (% of total)	51	54	39
GNI per capita, World Bank Atlas method (\$)	1,210	1,410	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.3	7.2	5.4
Adult literacy rate (% ages 15 and older)	41	43	
Gross primary, secondary, and tertiary school enrollment (%)		52	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	М	
Mobile telephone service	P	P	
Internet service	C A	C A	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	B	No	
	D	NU	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	6.4	5.8	
Telecommunications investment (% of revenue)	18.2	13.2	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	1.5	1.3	3.5
Mobile-cellular telephone subscriptions (per 100 people)	82.2	119.3	90.5
Fixed-broadband subscriptions (per 100 people)	0.1	0.5	1.9
Households with a computer (%)	1.8ª	8.8ª 17.2ª	
Households with Internet access at home (%)	1.1ª	17.29	4 24.5
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	5.9	4.7	7.5
Domestic mobile traffic (minutes/subscription/month)	43.9	67.9	
Individuals using the Internet (%)	2.7ª	21.0	28.6
Quality			
Population covered by at least a 3G mobile network (%)	0	71	
International Internet bandwidth (bit/s per Internet user)	7,807	5,194	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.1	14.2	6.9
Fixed-broadband sub-basket (\$ a month)	40.1	34.8	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	29.4	10.0	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	29.4	25.4	10.0
Trade			
ICT goods exports (% of total goods exports)	0.2	0.2	5.7
ICT goods imports (% of total goods imports)	3.3	2.5	7.6
ICT service exports (% of total service exports)	28.5	29.9	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.32	0.17	0.26
Secure Internet servers (per million people)	1.0	4.1	7.4
vi - P · P · Z			

Croatia

Europe & Central Asia

High income

	Country	Country data		Country data i	
	2010	2015	group 2015		
Economic and social context Population (millions)	4 58	4	1,187		
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	13,750 0.3	12,690 -0.7	81 41,366 1.5		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	99 84	99 90	 95		
Sector structure					
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Mixed	Yes Mixed			
International gateway(s) Mobile telephone service	C C	 C			
Internet service Foreign ownership (not allowed, restricted, allowed)	C A	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A			
Sector efficiency and capacity	4 7	0.0	0.5		
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	4.7 12.6	2.8 20.4	2.5 18.8		
Sector performance Access					
Fixed-telephone subscriptions (per 100 people)	43.0 113.6ª	34.7	41.2 124.5		
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	113.6ª 19.3	103.8 23.2	124.5 31.0		
Households with a computer (%)	60.0	76.8	83.2		
Households with Internet access at home (%)	56.5	76.7	85.0		
Usage	44.0	0.5			
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	11.6 99.0	8.5 158.5	 195.9		
Individuals using the Internet (%)	56.6	69.8	81.0		
Quality Population covered by at least a 3G mobile network (%)	79	99	99		
International Internet bandwidth (bit/s per Internet user)	22,420	72,381	134,761		
Affordability Mobile-cellular sub-basket (\$ a month)	17.1	9.7	14.2		
Fixed-broadband sub-basket (\$ a month)	18.2	14.8	25.2		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	8.5 	5.8 11.5	10.4 14.4		
Trade ICT goods exports (% of total goods exports)	2.1	2.0	9.5		
ICT goods imports (% of total goods imports)	5.5	4.9	11.2		
ICT service exports (% of total service exports)	12.8	13.0	32.0		
Applications Online service index (0-1, 1=highest presence)	0.42	0.46	0.67		
Secure Internet servers (per million people)	168.9	264.4	1,194.6		

Cuba

Latin America & Caribbean

Upper middle income

			Upper middle-
	Country data		income group
	2010	2015	2015
Economic and social context			
Population (millions)	11	11	2,594
Urban population (% of total)	77	77	64
GNI per capita, World Bank Atlas method (\$)	5,570	 2.9	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	5.1 100	2.9	4.5
Gross primary, secondary, and tertiary school enrollment (%)	97	81	81
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Private	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service	 M	M	
Internet service	P	P	
Foreign ownership (not allowed, restricted, allowed)	R	Ŕ	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	10.3	11.5	17.3
Mobile-cellular telephone subscriptions (per 100 people)	8.9	29.7	105.1
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	15.4
Households with a computer (%)	3.4ª	13.0	48.7
Households with Internet access at home (%)	1.9ª	5.6	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	15.2	12.0	2.3
Domestic mobile traffic (minutes/subscription/month)	29.2	57.7	
Individuals using the Internet (%)	15.9	31.14	52.1
Quality Population covered by at least a 3G mobile network (%)		0	69
International Internet bandwidth (bit/s per Internet user)	219	572	
Affordability			
Mobile-cellular sub-basket (\$ a month)	33.9	21.5	8.5
Fixed-broadband sub-basket (\$ a month)	1,752.7	180.0	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			11.1
Trade			45 7
ICT goods exports (% of total goods exports)			15.7
ICT goods imports (% of total goods imports)			14.4 25.7
ICT service exports (% of total service exports)			20.7
Applications Online service index (0-1, 1=highest presence)	0.24	0.23	0.37
Secure Internet servers (per million people)	0.24	0.25	34.7
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Curaçao

Latin America & Caribbean

High income

	Countr	Country data		Country data		in Country data		Country data	Country data		try data incon	High- income group
	2010	2015	2015									
Economic and social context												
Population (millions)	0.15	0.16	1,187									
Urban population (% of total)	90	89	81									
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)			41,366 1.5									
Adult literacy rate (% ages 15 and older)			1.0									
Gross primary, secondary, and tertiary school enrollment (%)		107	95									
Sector structure												
Separate telecommunications/ICT regulator												
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)												
International gateway(s)												
Mobile telephone service												
Internet service												
Foreign ownership (not allowed, restricted, allowed)												
Reg. treatment of VoIP (banned, closed, no framework, allowed)												
Sector efficiency and capacity			2.5									
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			18.8									
Sector performance												
Access												
Fixed-telephone subscriptions (per 100 people)	53.4	38.2	41.2									
Mobile-cellular telephone subscriptions (per 100 people)	138.3	114.2	124.5									
Fixed-broadband subscriptions (per 100 people)	21.0	24.3	31.0									
Households with a computer (%) Households with Internet access at home (%)	62.7 53.2		83.2 85.0									
	55.2											
Usage Int'l. voice traffic, total (minutes/subscription/month)												
Domestic mobile traffic (minutes/subscription/month)			 195.9									
Individuals using the Internet (%)			81.0									
Quality												
Population covered by at least a 3G mobile network (%)		82ª										
International Internet bandwidth (bit/s per Internet user)			134,761									
Affordability			44.0									
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			14.2 25.2									
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4									
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4									
Trade												
ICT goods exports (% of total goods exports)			9.5									
ICT goods imports (% of total goods imports)			11.2									
ICT service exports (% of total service exports)	21.2	22.2	32.0									
Applications			0.67									
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 39.5	 537.8	1,194.6									
	00.0	001.0	1,101.0									

Cyprus

Europe & Central Asia

High income

	Counti	Country data		Country data		H Country data	
	2010	2015	group 2015				
Economic and social context							
Population (millions)	1	1	1,187				
Urban population (% of total)	68	67	81				
GNI per capita, World Bank Atlas method (\$)	30,910	25,930	,				
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.4	-2.4	1.5				
Adult literacy rate (% ages 15 and older)	99	99					
Gross primary, secondary, and tertiary school enrollment (%)	79	83	95				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Public	Public					
Level of competition (competition, partial comp., monopoly)	0	0					
International gateway(s) Mobile telephone service	C P	C					
Internet service	r C	r C					
Foreign ownership (not allowed, restricted, allowed)	A	A					
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A					
Sector efficiency and capacity	0.7	2.1	25				
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.7 23.7	3.1 10.8	2.5 18.8				
neeconinumcations investment (% of revenue)	23.1	10.0	10.0				
Sector performance							
Access							
Fixed-telephone subscriptions (per 100 people)	37.4	27.8	41.2				
Mobile-cellular telephone subscriptions (per 100 people)	93.7	95.4	124.5				
Fixed-broadband subscriptions (per 100 people)	17.6 60.5	22.4 71.5	31.0 83.2				
Households with a computer (%) Households with Internet access at home (%)	53.7	71.5	85.0				
	00.1	11.2					
Usage	50.4	24.5					
Int'l. voice traffic, total (minutes/subscription/month)	52.4	31.5 214.1					
Domestic mobile traffic (minutes/subscription/month)	237.0 53.0	214.1 71.7	195.9 81.0				
Individuals using the Internet (%)	55.0	11.1	01.0				
Quality							
Population covered by at least a 3G mobile network (%)	85	90	99				
International Internet bandwidth (bit/s per Internet user)	51,638	89,791	134,761				
Affordability							
Mobile-cellular sub-basket (\$ a month)	7.7	6.9	14.2				
Fixed-broadband sub-basket (\$ a month)	34.8	17.8	25.2				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	38.6	22.2	10.4				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	23.5	16.6	14.4				
Trade							
ICT goods exports (% of total goods exports)	9.2	5.0					
ICT goods imports (% of total goods imports)	4.7	4.3	11.2				
ICT service exports (% of total service exports)	8.8	14.6	32.0				
Applications							
Online service index (0-1, 1=highest presence)	0.37	0.47	0.67				
Secure Internet servers (per million people)	838.1	677.1	1,194.6				

Czech Republic

Europe & Central Asia

High income

	Count	Country data in		H Country data		Country data in	
	2010	2015	group 2015				
Economic and social context							
Population (millions)	10	11	1,187				
Urban population (% of total)	73	73	81				
GNI per capita, World Bank Atlas method (\$)	19,210		41,366				
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.1	1.0	1.5				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 87	94					
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Private	Private					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)							
Mobile telephone service Internet service	 C	c					
Foreign ownership (not allowed, restricted, allowed)	R	A					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A					
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.1	1.8	2.5				
Telecommunications investment (% of revenue)	12.4		18.8				
Sector performance							
Access		10.1	44.0				
Fixed-telephone subscriptions (per 100 people)	22.4 122.6		41.2 124.5				
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	21.4		31.0				
Households with a computer (%)	64.1	78.9	83.2				
Households with Internet access at home (%)	60.5		85.0				
Usage Int'l. voice traffic, total (minutes/subscription/month)	9.7	10.9					
Domestic mobile traffic (minutes/subscription/month)	94.5		 195.9				
Individuals using the Internet (%)	68.8	81.3	81.0				
Que l'he							
Quality Population covered by at least a 3G mobile network (%)	90	99	99				
International Internet bandwidth (bit/s per Internet user)	68,842	119,841	134,761				
Affordahility							
Affordability Mobile-cellular sub-basket (\$ a month)	28.1	13.3	14.2				
Fixed-broadband sub-basket (\$ a month)	31.2	14.2	25.2				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	24.4	12.2	10.4				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	25.5	14.2	14.4				
Trade							
ICT goods exports (% of total goods exports)	15.0	13.4	9.5				
ICT goods imports (% of total goods imports)	17.8	14.1	11.2				
ICT service exports (% of total service exports)	27.8	31.6	32.0				
Applications							
Online service index (0-1, 1=highest presence)	0.45	0.37	0.67				
Secure Internet servers (per million people)	319.7	866.8	1,194.6				

Denmark

Europe & Central Asia

High income

	Country data		Country data		Country data ⁱ	Country data	
	2010	2015	group 2015				
Economic and social context							
Population (millions)	6	6	1,187				
Urban population (% of total)	87	88	81				
GNI per capita, World Bank Atlas method (\$)	60,820	,	41,366				
GDP growth, 2005–10 and 2010–15 (avg. annual %)	-0.4	0.5	1.5				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	100	 105	 95				
Sector structure							
Separate telecommunications/ICT regulator	Yes						
Status of main fixed-line telephone operator	Private	Private					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	C	C P					
Mobile telephone service Internet service	r C	r C					
Foreign ownership (not allowed, restricted, allowed)	A						
Reg. treatment of VoIP (banned, closed, no framework, allowed)							
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	2.3		2.5				
Telecommunications investment (% of revenue)	18.2	18.0	18.8				
Sector performance							
Access	47.1	20.0	41.0				
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	47.1 115.7		41.2 124.5				
Fixed-broadband subscriptions (per 100 people)	38.1		31.0				
Households with a computer (%)	88.0		83.2				
Households with Internet access at home (%)	86.1	91.7	85.0				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	18.8						
Domestic mobile traffic (minutes/subscription/month)	139.3 88.7	142.5 96.3	195.9 81.0				
Individuals using the Internet (%)	88.7	90.3	81.0				
Quality Population covered by at least a 3G mobile network (%)	70	100	99				
International Internet bandwidth (bit/s per Internet user)	142,137	328,018	134,761				
Affordability							
Mobile-cellular sub-basket (\$ a month)	7.9		14.2				
Fixed-broadband sub-basket (\$ a month)	43.9		25.2				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	85.5	44.6	10.4				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	17.1	7.3	14.4				
Trade ICT goods exports (% of total goods exports)	3.7	3.6	9.5				
ICT goods imports (% of total goods imports)	7.9		11.2				
ICT service exports (% of total service exports)		16.9	32.0				
Applications							
Online service index (0-1, 1=highest presence)	0.67		0.67				
Secure Internet servers (per million people)	1,872.1	1,975.9	1,194.6				

Djibouti

Middle East & North Africa

Lower middle income

	Countr	Quantum dista		L m Country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	0.83	0.89	2,927		
Urban population (% of total)	77	77	39		
GNI per capita, World Bank Atlas method (\$)			2,035		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.0	5.0	5.4		
Adult literacy rate (% ages 15 and older)					
Gross primary, secondary, and tertiary school enrollment (%)	37		68		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	М	М			
Mobile telephone service	М	М			
Internet service	М	М			
Foreign ownership (not allowed, restricted, allowed)	No	No			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	C			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	5.7				
Telecommunications investment (% of revenue)	14.3				
Sector performance					
Access	2.2	2.6	3.5		
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	19.9	34.7	90.5		
Fixed-broadband subscriptions (per 100 people)	1.0	2.3	1.9		
Households with a computer (%)	13.0ª	19.1			
Households with Internet access at home (%)	3.5ª	8.1			
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	124.9		7.5		
Domestic mobile traffic (minutes/subscription/month)	32.0		152.0		
Individuals using the Internet (%)	6.5ª	11.9	28.6		
Quality					
Population covered by at least a 3G mobile network (%)	0				
International Internet bandwidth (bit/s per Internet user)	15,439	10,255	10,372		
Affordability					
Mobile-cellular sub-basket (\$ a month)	13.0	11.3	6.9		
Fixed-broadband sub-basket (\$ a month)	41.8	31.6	14.3		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			5.8		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.0		
Trade					
ICT goods exports (% of total goods exports)	0.1		5.7		
ICT goods imports (% of total goods imports)	5.4		7.6		
ICT service exports (% of total service exports)	4.7		48.0		
Applications					
Online service index (0-1, 1=highest presence)	0.05	0.06	0.26		
Secure Internet servers (per million people)	6.0	9.0	7.4		

72

Dominica

Latin America & Caribbean

Upper middle income

			Upper middle-
	Count	ry data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.07	0.07	2,594
Urban population (% of total)	68	70	64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	6,700 3.5	6,760 1.1	8,186 4.5
Adult literacy rate (% ages 15 and older)		1.1	4.5
Gross primary, secondary, and tertiary school enrollment (%)			81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly) International gateway(s)	С	С	
Mobile telephone service	C	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	6.9		2.1
Telecommunications investment (% of revenue)	18.5		18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	21.8	20.8	17.3
Mobile-cellular telephone subscriptions (per 100 people)	148.3	106.3	105.1
Fixed-broadband subscriptions (per 100 people)	11.7	20.9	15.4
Households with a computer (%)	30.08	a 50.0ª	48.7
Households with Internet access at home (%)	28.04	58.44	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	14.6		2.3 173.1
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	112.1 47.5	 67.6ª	
individuals using the internet (%)	47.5	07.0	J2.1
Quality Population covered by at least a 3G mobile network (%)	0	604	69
International Internet bandwidth (bit/s per Internet user)		193,358	
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.7	21.1	8.5
Fixed-broadband sub-basket (\$ a month)	47.8	32.2	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		34.1	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		22.2	11.1
Trade	0.5		
ICT goods exports (% of total goods exports)	2.5		15.7
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.8 22.4	 21.0	14.4 25.7
Applications			
Applications Online service index (0-1, 1=highest presence)	0.05	0.19	0.37
Secure Internet servers (per million people)	309.1	454.0	34.7
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Dominican Republic

Latin America & Caribbean Upper middle income Upper middleincome Country data group 2010 2015 2015 Economic and social context 2,594 Population (millions) 10 11 Urban population (% of total) 74 79 64 5.280 6,130 8.186 GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) 5.6 4.9 4.5 90 92 Adult literacy rate (% ages 15 and older) 78 78 81 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Private Private Level of competition (competition, partial comp., monopoly) С С International gateway(s) С Ρ Mobile telephone service С С Internet service Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) No А Sector efficiency and capacity 2.1 2.9 21 Telecommunications revenue (% of GDP) 17.3 14.3 188 Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 10.1 12.3 17.3 Mobile-cellular telephone subscriptions (per 100 people) 88.8 82.6 105 1 39 64 15.4 Fixed-broadband subscriptions (per 100 people) Households with a computer (%) 16.4ª 30.1 48.7 10.2ª 23.6 52.2 Households with Internet access at home (%) Usage 30.2 12.9 2.3 Int'l. voice traffic, total (minutes/subscription/month) 23.3 30.8 173.1 Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 31 4a 519 521 Ouality Population covered by at least a 3G mobile network (%) 99 69 4,451 36,155 26,098 International Internet bandwidth (bit/s per Internet user) Affordability Mobile-cellular sub-basket (\$ a month) 16.9 14.0 8.5 20.1 15.5 Fixed-broadband sub-basket (\$ a month) 19.0 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 105.8 25.0 77 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 19.4 17.0 11.1 Trade 15.7 ICT goods exports (% of total goods exports) 2.0 1.0 4.8 3.7 14.4 ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) 6.9 5.1 25.7 Applications 0.37 0.37 0.39 Online service index (0-1, 1=highest presence) Secure Internet servers (per million people) 15.3 30.7 34.7

Ecuador

Latin America & Caribbean

Upper middle income

			Upper middle- income	
	Count		group	
	2010	2015	2015	
Economic and social context	15	10	0.504	
Population (millions) Urban population (% of total)	15 63	16 64	2,594 64	
GNI per capita, World Bank Atlas method (\$)	4,410	6,010	8,186	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.4	4.4	4.5	
Adult literacy rate (% ages 15 and older)	92	95		
Gross primary, secondary, and tertiary school enrollment (%)	84	89	81	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Public	Public		
Level of competition (competition, partial comp., monopoly) International gateway(s)	С	С		
Mobile telephone service	C	C		
Internet service	C	C		
Foreign ownership (not allowed, restricted, allowed)	A	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	A		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	3.4	2.9	2.1	
Telecommunications investment (% of revenue)	9.4	10.3	18.8	
Sector performance				
Access	13.9	15.5	17.3	
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	98.5	79.4		
Fixed-broadband subscriptions (per 100 people)	1.5	9.2	15.4	
Households with a computer (%)	27.0	40.8	48.7	
Households with Internet access at home (%)	11.5	32.8	52.2	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	5.3	5.1	2.3	
Domestic mobile traffic (minutes/subscription/month)	134.4	78.2	173.1	
Individuals using the Internet (%)	29.0	48.9	52.1	
Quality	66	92	69	
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	7,950	56,561	26,098	
Affordobility				
Affordability Mobile-cellular sub-basket (\$ a month)	17.1	17.2	8.5	
Fixed-broadband sub-basket (\$ a month)	22.6	20.2	15.5	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	21.3	20.0	7.7	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	24.0	22.4	11.1	
Trade				
ICT goods exports (% of total goods exports)	0.1	0.1	15.7	
ICT goods imports (% of total goods imports)	6.3	6.6	14.4	
ICT service exports (% of total service exports)			25.7	
Applications	0.32	0.48	0.37	
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.32 14.1	0.48 41.9	0.37 34.7	
	17.1	+1.5	54.1	

Egypt, Arab Rep.

Middle East & North Africa

Lower middle income

				Low	
	Countr	-	income group 2015		
	2010	2015	2015		
Economic and social context	00	00	0.007		
Population (millions)	82 43	92 43	2,927		
Urban population (% of total)	43 2,390		39 2,035		
GNI per capita, <i>World Bank Atlas</i> method (\$)	2,390	3,340 2.4			
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	0.2 72	2.4			
Gross primary, secondary, and tertiary school enrollment (%)	72	78			
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	Р	Р			
Mobile telephone service	С	С			
Internet service	C	C			
Foreign ownership (not allowed, restricted, allowed)	R	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	В			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.2	2.2			
Telecommunications investment (% of revenue)	50.7	33.8			
Sector performance					
Access	12.3	7.4	3.5		
Fixed-telephone subscriptions (per 100 people)	12.5 90.5	111.0			
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	1.9	4.5			
Households with a computer (%)	31.3	50.8			
Households with Internet access at home (%)	25.3	41.8			
Usage Int'l. voice traffic, total (minutes/subscription/month)	5.6	6.3	7.5		
Domestic mobile traffic (minutes/subscription/month)	122.0		152.0		
Individuals using the Internet (%)	21.6	35.9			
Quality					
Population covered by at least a 3G mobile network (%)	87	98			
International Internet bandwidth (bit/s per Internet user)	5,370	11,318	10,372		
Affordability					
Mobile-cellular sub-basket (\$ a month)	7.0	4.8	6.9		
Fixed-broadband sub-basket (\$ a month)	8.0	6.5	14.3		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	8.3	3.0	5.8		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.8	3.3	10.0		
Trade					
ICT goods exports (% of total goods exports)	0.1	2.8	5.7		
ICT goods imports (% of total goods imports)	3.7	4.2	7.6		
ICT service exports (% of total service exports)	8.8	10.5			
Applications					
Online service index (0-1, 1=highest presence)	0.53	0.59	0.26		
Secure Internet servers (per million people)	2.3	5.4	7.4		

76

El Salvador

Latin America & Caribbean

Lower middle income

			Lower middle-
	Countr	y data 2015	income group 2015
	2010	2015	2015
Economic and social context	6	6	2,927
Population (millions) Urban population (% of total)	64	67	2,927
GNI per capita, World Bank Atlas method (\$)	3.450	3,940	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.2	1.9	5.4
Adult literacy rate (% ages 15 and older)	84	88	
Gross primary, secondary, and tertiary school enrollment (%)	78	76	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	0		
International gateway(s)	C C	 C	
Mobile telephone service Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.8	6.4	
Telecommunications investment (% of revenue)	17.7	16.4	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	16.1	14.7	3.5
Mobile-cellular telephone subscriptions (per 100 people)	123.8	145.3	90.5
Fixed-broadband subscriptions (per 100 people)	2.8	5.5	1.9
Households with a computer (%)	13.3 8.0	28.1	
Households with Internet access at home (%)	0.0	15.04	4 24.3
Usage Int'l. voice traffic, total (minutes/subscription/month)	27.5	28.1	7.5
Domestic mobile traffic (minutes/subscription/month)	86.9	77.5	152.0
Individuals using the Internet (%)	15.9	26.94	
Quality			
Population covered by at least a 3G mobile network (%)		73	
International Internet bandwidth (bit/s per Internet user)	2,889	61,959	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.6	13.8	6.9
Fixed-broadband sub-basket (\$ a month)	24.9	21.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	10.0 15.0	14.0 14.0	5.8 10.0
	10.0	2.110	1010
Trade ICT goods exports (% of total goods exports)	0.3	0.4	5.7
ICT goods imports (% of total goods imports)	5.4	5.2	7.6
ICT service exports (% of total service exports)	13.2	11.1	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.43	0.54	0.26
Secure Internet servers (per million people)	13.7	25.8	7.4

Equatorial Guinea

Cub Cabanan Africa			
Sub-Saharan Africa	Upper m	Iddle I	
			Upper middle-
	0		income
	Country		group
	2010	2015	2015
Economic and social context	0.70	0.05	0 50 4
Population (millions)	0.73 39	0.85 40	2,594 64
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	7,880	7,790	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.6	-2.1	4.5
Adult literacy rate (% ages 15 and older)		95	
Gross primary, secondary, and tertiary school enrollment (%)			81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	Р		
International gateway(s) Mobile telephone service	C		
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access	1.0		17.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	1.9 57.4	1.4 66.7	17.3 105.1
Fixed-broadband subscriptions (per 100 people)	0.2	0.5	105.1
Households with a computer (%)	13.0ª	19.3ª	
Households with Internet access at home (%)	7.0ª	8.9ª	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month)			173.1
Individuals using the Internet (%)	6.0	21.3ª	52.1
Quality			
Population covered by at least a 3G mobile network (%)	 4,094	 1,320	69 26,098
International Internet bandwidth (bit/s per Internet user)	4,094	1,320	20,098
Affordability Mobile-cellular sub-basket (\$ a month)		20.7	8.5
Fixed-broadband sub-basket (\$ a month)		101.4	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			11.1
Trade			
ICT goods exports (% of total goods exports)			15.7
ICT goods imports (% of total goods imports)			14.4
ICT service exports (% of total service exports)			25.7
Applications			
Online service index (0-1, 1=highest presence)	0.03	0.03	0.37
Secure Internet servers (per million people)	2.7	3.6	34.7

²⁰¹⁶ The Little Data Book on Information and Communication Technology

Eritrea

Sub-Saharan Africa

Low income

	Country	y data	Low- income group
	2010	2015	2015
Economic and social context			
Population (millions)	5	5	638
Urban population (% of total)	21	23	31
GNI per capita, World Bank Atlas method (\$)	380		620
GDP growth, 2005–10 and 2010–15 (avg. annual %)	-1.3	 74	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 30		 60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	M P	
Mobile telephone service Internet service	P	P	
Foreign ownership (not allowed, restricted, allowed)	г 	г 	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.2		
Telecommunications investment (% of revenue)	10.4	42.9	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	0.9	1.0	0.9
Mobile-cellular telephone subscriptions (per 100 people)	3.2	7.0	60.0
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	0.3
Households with a computer (%)	0.8ª	2.8ª	4.8
Households with Internet access at home (%)	0.7ª	1.7ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	77.1	67.4	
Domestic mobile traffic (minutes/subscription/month)	115.5	11.3	48.9
Individuals using the Internet (%)	0.6ª	1.1ª	9.5
Quality Population covered by at least a 3G mobile network (%)	85	92	51
International Internet bandwidth (bit/s per Internet user)	857	1,391	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.1	13.0	9.4
Fixed-broadband sub-basket (\$ a month)	204.0	87.3	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.8
Trade			
ICT goods exports (% of total goods exports)			 3.4
ICT goods imports (% of total goods imports)			3.4
ICT service exports (% of total service exports)			
Applications Online service index (0-1, 1=highest presence)	0.02	0.00	0.11
Secure Internet servers (per million people)	0.02	0.00	1.5

Estonia

Europe & Central Asia

High income

Zoto Zoto Zoto Economic and social context Population (millions) 1 1 1,187 Urban population (% of total) 68 68 81 GNI per capita, World Bank Atlas method (\$) 14,580 18,480 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) -1.6 3.5 1.5 Adut literacy rate (% ages 15 and older) 100 100 Gross primary, secondary, and tertiary school enrollment (%) 94 97 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition, partial comp., monopoly) International gateway(s) C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A Fleecommunications revenue (% of GDP) 3.2 2.8 2.5 Telecommunications investment (% of revenue) 14.6 16.2 18.8 Sector performance		Country data		High- income group
Population (millions) 1 1 1,187 Urban population (% of total) 68 68 81 GNI per capita, World Bank Atlas method (\$) 14,580 18,480 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) -1.6 3.5 1.5 Adult literacy rate (% ages 15 and older) 100 100 Gross primary, secondary, and tertiary school enrollment (%) 94 97 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition, partial comp., monopoly) Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity Telecommunications investment (% of revenue) 14.6 16.2 18.8 Sector performance A A A A A Mobile-cellular telephone subscriptions (per 100 people) 37.1 30.3 41.2 Mobile-cellular telephone subscription/month) 9.6 8.7 85.0 <th></th> <th>2010</th> <th>2015</th> <th></th>		2010	2015	
GNI per capita, World Bank Atlas method (\$)14,58018,48041,366GDP growth, 2005-10 and 2010-15 (avg. annual %)-1.63.51.5Adult literacy rate (% ages 15 and older)100100Gross primary, secondary, and tertiary school enrollment (%)949795Sector structureSeparate telecommunications/ICT regulatorYesYesSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)CInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity14.616.218.8Sector performanceX14.616.218.8Sector performanceA14.514.5AccessFixed-telephone subscriptions (per 100 people)27.130.341.2Mobile-cellular telephone subscriptions (per 100 people)26.828.731.0Households with a computer (%)69.287.983.2Households with a computer (%)64.8Domestic mobile traffic (natules/subscription/month)9.68.3Domestic mobile traffic (total (minutes/subscription/month)9.68.3Domestic mobile traffic (minutes/subscription/month)9.613.47.61 <tr <tr="">Mobile-cellular su</tr>		-	1	1,187
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		25.8	26.7	32.0
Applications	Applications			
Applications Online service index (0-1, 1=highest presence) 0.50 0.77 0.67		0.50	0.77	0.67
Secure Internet servers (per million people) 437.1 1,145.6 1,194.6		437.1	1,145.6	1,194.6

Ethiopia

Sub-Saharan Africa

Low income

2010 2015 2015 Economic and social context Population (millions) 88 99 638 Urban population (% of total) 17 19 31 GNI per capital, World Bank Attas method (\$) 380 590 620 GDP growth, 2005-10 and 2010-15 (avg. annual %) 10.7 10.0 5.4 Adult literacy rate (% ages 15 and older) 39 49 Gross primary, secondary, and tertiary school enrollment (%) 53 60 Sector structure Separate telecommunications/ICIT regulator No No No Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) M Mobile relephone service M M Foreign ownership (not allowed, restricted, allowed) R No Resettement of Vol? (banned, closed, no framework, allowed) B C Sector performance Access Fixed-telephone subscriptions (per 100 people) 1.0 <th></th> <th>Country</th> <th>v data</th> <th>Low- income</th>		Country	v data	Low- income
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ICT goods imports (% of total goods imports) 8.4 4.6 3.4 ICT service exports (% of total service exports) 8.9 Applications		0.2	0.2	
ICT service exports (% of total service exports) 8.9 Applications				3.4
Online service index (0-1, 1=highest presence) 0.20 0.46 0.11				
	Online service index (0-1, 1=highest presence)			
Secure Internet servers (per million people) 0.1 0.2 1.5	Secure Internet servers (per million people)	0.1	0.2	1.5

Faroe Islands

Europe & Central Asia

High income

	Count	Country data		in		inco	High- income group
	2010	2015	2015				
Economic and social context							
Population (millions)	0.05	0.05	1,187				
Urban population (% of total)	41	42	81				
GNI per capita, World Bank Atlas method (\$)			41,366				
GDP growth, 2005-10 and 2010-15 (avg. annual %)			1.5				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 95				
Sector structure							
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator							
Level of competition (competition, partial comp., monopoly)							
International gateway(s)							
Mobile telephone service							
Internet service							
Foreign ownership (not allowed, restricted, allowed)							
Reg. treatment of VoIP (banned, closed, no framework, allowed)							
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)			2.5				
Telecommunications investment (% of revenue)			18.8				
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	40.7 119.9	34.3 127.3	41.2 124.5				
Fixed-broadband subscriptions (per 100 people)	32.6	36.4	31.0				
Households with a computer (%)			83.2				
Households with Internet access at home (%)			85.0				
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 82.1 75.2	 94.2ª	 195.9 81.0				
Quality Population covered by at least a 3G mobile network (%)			99				
International Internet bandwidth (bit/s per Internet user)			134,761				
Affordability Mobile-cellular sub-basket (\$ a month)			14.2				
Fixed-broadband sub-basket (\$ a month)			25.2				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4				
Trade							
ICT goods exports (% of total goods exports)	0.0		9.5				
ICT goods imports (% of total goods imports)	4.3		11.2				
ICT service exports (% of total service exports)	23.0		32.0				
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 926.6	 1,656.6	0.67 1,194.6				

Fiji

East Asia & Pacific

Upper middle income

	0		Upper middle- income
	Countr 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	0.86	0.89	2,594
Urban population (% of total)	52	54	64
GNI per capita, World Bank Atlas method (\$)	3,650	4,800	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.4	3.3	4.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C C	C C	
Mobile telephone service Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access	15.1	8.1	17.3
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	81.1	108.2	
Fixed-broadband subscriptions (per 100 people)	2.7	1.4	15.4
Households with a computer (%)	26.8ª	39.2	48.7
Households with Internet access at home (%)	18.8ª	31.3	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 20.0ª	46.3	173.1 52.1
	20.0-	40.5	52.1
Quality Population covered by at least a 3G mobile network (%)		68	69
International Internet bandwidth (bit/s per Internet user)	7,553	27,399	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	18.8	17.0	8.5
Fixed-broadband sub-basket (\$ a month)	18.3	16.8	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	14.0 22.8	8.6 12.0	7.7 11.1
Trade			
ICT goods exports (% of total goods exports)	0.2	4.3	15.7
ICT goods imports (% of total goods imports)	3.9	5.7	14.4
ICT service exports (% of total service exports)	2.9	4.4	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.18	0.39	0.37
Secure Internet servers (per million people)	30.2	51.6	34.7

Finland

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context Population (millions) Urban population (% of total)	5 84	5 84	1,187 81
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	49,330 0.4	-0.2	41,366 1.5
Gross primary, secondary, and tertiary school enrollment (%)	101	115	95
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Mixed	Yes Mixed	
International gateway(s) Mobile telephone service Internet service	C C C	C C C	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) A	A A	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.0 16.7	1.7 15.5	2.5 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	23.3 156.3 29.1 82.0 80.5	9.8 135.5 31.7 89.3 89.9	41.2 124.5 31.0 83.2 85.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 177.5 86.9		 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	95 107,204	100 208,526	99 134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.1 35.4 8.7 12.7	7.3	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	6.4 8.2 39.6	2.6 6.2 49.5	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.48 1,245.5	0.77 1,781.6	0.67 1,194.6

France

Europe & Central Asia

High income

	Count	Country data		Country data		Country data		inco	High- income group
	2010	2015	2015						
Economic and social context									
Population (millions)	65	67	1,187						
Urban population (% of total)	78	80	81						
GNI per capita, World Bank Atlas method (\$)	43,790	,	41,366						
GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.5	0.7	1.5						
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 94	 96	 95						
Sector structure			<u> </u>						
Separate telecommunications/ICT regulator	Yes	Yes							
Status of main fixed-line telephone operator	Mixed	Mixed							
Level of competition (competition, partial comp., monopoly)									
International gateway(s)	С	С							
Mobile telephone service	C C	C							
Internet service Foreign ownership (not allowed, restricted, allowed)	R	C A							
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A							
Sector efficiency and capacity									
Telecommunications revenue (% of GDP)	2.2	1.6	2.5						
Telecommunications investment (% of revenue)	14.5	20.5	18.8						
Sector performance									
Access	C4 0	59.9	41.2						
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	64.2 91.4		41.2 124.5						
Fixed-broadband subscriptions (per 100 people)	33.7	41.3	31.0						
Households with a computer (%)	76.4		83.2						
Households with Internet access at home (%)	73.6	82.6	85.0						
Usage									
Int'l. voice traffic, total (minutes/subscription/month)	19.5								
Domestic mobile traffic (minutes/subscription/month)	148.5 77.3	188.4 84.7	195.9 81.0						
Individuals using the Internet (%)	11.5	04.7	01.0						
Quality Population covered by at least a 3G mobile network (%)	91	99	99						
International Internet bandwidth (bit/s per Internet user)	71,626	129,973	134,761						
Affordability									
Mobile-cellular sub-basket (\$ a month)	49.5	33.7	14.2						
Fixed-broadband sub-basket (\$ a month)	30.1 15.4	23.3 22.2	25.2 10.4						
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.4 28.3		10.4						
Trade									
ICT goods exports (% of total goods exports)	4.4	3.9	9.5						
ICT goods imports (% of total goods imports)	7.3	6.2	11.2						
ICT service exports (% of total service exports)	34.4	40.5	32.0						
Applications	0.00	1.00	0.07						
Online service index (0-1, 1=highest presence)	0.68 296.4	1.00 809.3	0.67 1.194.6						
Secure Internet servers (per million people)	230.4	003.3	1,134.0						

French Polynesia

East Asia & Pacific

High income

	Countr	y data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.27	0.28	1,187
Urban population (% of total)	56	56	81
GNI per capita, World Bank Atlas method (\$)			41,366 1.5
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)			1.5
Gross primary, secondary, and tertiary school enrollment (%)			95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly) International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity			0.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			2.5 18.8
			10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	20.5	21.2	41.2
Mobile-cellular telephone subscriptions (per 100 people)	80.5	94.9	124.5
Fixed-broadband subscriptions (per 100 people)	12.0	18.4	31.0
Households with a computer (%)			83.2
Households with Internet access at home (%)			85.0
Usage	9.4	5.3	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	9.4 103.8	5.5 114.2	 195.9
Individuals using the Internet (%)	49.0	64.6ª	
Quality			
Population covered by at least a 3G mobile network (%)	45	85	99
International Internet bandwidth (bit/s per Internet user)	13,323		134,761
Affordability			14.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade			
ICT goods exports (% of total goods exports)	0.8	0.9	9.5
ICT goods imports (% of total goods imports)	6.0	5.0	11.2
ICT service exports (% of total service exports)	9.9	4.9	32.0
Applications Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	 85.8	 180.4	1,194.6
			,

Gabon

Sub-Saharan Africa

Upper middle income

			Upper middle-	
	Country	y data 2015	income group 2015	
Formation and applied context	2020	2020		
Economic and social context Population (millions)	2	2	2,594	
Urban population (% of total)	86	87	2,354	
GNI per capita, World Bank Atlas method (\$)	8,250	9,210	8,186	
GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.9	5.2	4.5	
Adult literacy rate (% ages 15 and older)	82	83		
Gross primary, secondary, and tertiary school enrollment (%)			81	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	С	C		
Mobile telephone service	C C	C C		
Internet service Foreign ownership (not allowed, restricted, allowed)	No	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		B		
	Л	D		
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.1	
Telecommunications investment (% of revenue)			18.8	
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	2.0	1.1	17.3	
Mobile-cellular telephone subscriptions (per 100 people)	103.5	168.9	105.1	
Fixed-broadband subscriptions (per 100 people)	0.3	0.6	15.4	
Households with a computer (%)	7.6ª	13.7		
Households with Internet access at home (%)	6.0ª	18.04	52.2	
Usage	1.6		2.3	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	1.0		2.3 173.1	
Individuals using the Internet (%)	7.2ª	 23.54		
Quality				
Population covered by at least a 3G mobile network (%)		95	69	
International Internet bandwidth (bit/s per Internet user)	6,888	8,505	26,098	
Affordability				
Mobile-cellular sub-basket (\$ a month)	23.3	16.7	8.5	
Fixed-broadband sub-basket (\$ a month)	31.8	23.7	15.5	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		16.1	7.7	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		23.7	11.1	
Trade				
ICT goods exports (% of total goods exports)	0.0		15.7	
ICT goods imports (% of total goods imports)	3.5		14.4	
ICT service exports (% of total service exports)			25.7	
Applications	0.00	0.00	0.27	
Online service index (0-1, 1=highest presence)	0.08 7.8	0.09 9.9	0.37 34.7	
Secure Internet servers (per million people)	1.0	5.5	54.7	

Gambia, The

Sub-Saharan Africa

Low income

	Country	y data	Low- income group
-	2010	2015	2015
Economic and social context			
Population (millions)	2	2	638
Urban population (% of total)	56	60	31
GNI per capita, World Bank Atlas method (\$)	590	460	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.9	2.4 56	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	56		60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service	M C	M C	
Internet service	c	C	
Foreign ownership (not allowed, restricted, allowed)	Ā	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)		9.2	
Telecommunications investment (% of revenue)		8.0	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	2.9	2.3	0.9
Mobile-cellular telephone subscriptions (per 100 people)	88.0	131.3	60.0
Fixed-broadband subscriptions (per 100 people)	0.0	0.2	0.3
Households with a computer (%)	5.7ª	8.9ª	4.8
Households with Internet access at home (%)	3.8ª	13.3ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		6.7	
Domestic mobile traffic (minutes/subscription/month)	 9.2	42.3 17.1ª	48.9 9.5
Individuals using the Internet (%)	9.2	17.10	9.0
Quality Population covered by at least a 3G mobile network (%)	50ª	86ª	51
International Internet bandwidth (bit/s per Internet user)	1,093	13,342	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	6.0	5.1	9.4
Fixed-broadband sub-basket (\$ a month)	280.3	21.0	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		4.1	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.8
Trade ICT goods exports (% of total goods exports)	0.1	0.1	
ICT goods imports (% of total goods imports)	1.4	2.2	3.4
ICT service exports (% of total goods imports)			
Applications			
Online service index (0-1, 1=highest presence)	0.08	0.20	0.11
Secure Internet servers (per million people)	3.0	5.5	1.5

Georgia

Europe & Central Asia

Upper middle income

			Upper middle- income
		Country data	
	2010	2015	2015
Economic and social context			
Population (millions)	4		,
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	53 3.000		64 8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.6	,	
Adult literacy rate (% ages 15 and older)		400	
Gross primary, secondary, and tertiary school enrollment (%)	73	83	81
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)	С	С	
International gateway(s) Mobile telephone service	C		
Internet service	C		
Foreign ownership (not allowed, restricted, allowed)	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.6		
Telecommunications investment (% of revenue)	15.9	25.5	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	25.3	22.1	17.3
Mobile-cellular telephone subscriptions (per 100 people)	90.6		
Fixed-broadband subscriptions (per 100 people)	4.2		
Households with a computer (%)	18.2	49.5	48.7
Households with Internet access at home (%)	16.6	44.8	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	7.7 65.3		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	26.9		52.1
Quality			
Population covered by at least a 3G mobile network (%)		99	69
International Internet bandwidth (bit/s per Internet user)	21,177	101,468	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	11.6	4.5	8.5
Fixed-broadband sub-basket (\$ a month)	8.4		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	6.1		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	9.1	2.2	11.1
Trade ICT goods exports (% of total goods exports)	0.2	0.6	15.7
ICT goods imports (% of total goods imports)	5.3		
ICT service exports (% of total service exports)	4.5		
Applications			
Online service index (0-1, 1=highest presence)	0.25	0.60	0.37
chille certice mask (c 1, 1 mg. cert precence)	13.5	63.3	34.7

Germany

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	82	81	1,187
Urban population (% of total)	74	75	81
GNI per capita, World Bank Atlas method (\$)	44,790 0.8	45,790 1.3	41,366 1.5
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	0.0	1.5	1.5
Gross primary, secondary, and tertiary school enrollment (%)		96	95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Mixed	Mixed	
International gateway(s)	С	С	
Mobile telephone service	C	C	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity	1 5	1.4	0.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	1.5 15.3	1.4 17.6	2.5 18.8
	15.5	17.0	10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	63.7	54.9	41.2
Mobile-cellular telephone subscriptions (per 100 people)	106.5	116.7	124.5
Fixed-broadband subscriptions (per 100 people)	31.5	37.2	31.0
Households with a computer (%)	85.7	91.0	83.2
Households with Internet access at home (%)	82.5	90.3	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	 96.5	 125.8	 195.9
Individuals using the Internet (%)	82.0	87.6	81.0
Quality Population covered by at least a 3G mobile network (%)	89	96	99
International Internet bandwidth (bit/s per Internet user)	73,449	117,540	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	22.3	11.1	14.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	39.4 12.8	38.8 11.0	25.2 10.4
Mobile-b'band, postpaid computer-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	25.7	16.0	10.4
Trade ICT goods exports (% of total goods exports)	5.1	4.5	9.5
ICT goods imports (% of total goods imports)	9.2	7.7	11.2
ICT service exports (% of total service exports)	36.6	39.5	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.55		0.67
Secure Internet servers (per million people)	872.0	1,762.7	1,194.6

Ghana

Sub-Saharan Africa

Lower Middle income

			Lower middle-
	Country	y data 2015	income group 2015
Economic and social context	2020	2020	2010
Population (millions)	24	27	2,927
Urban population (% of total)	51	54	39
GNI per capita, World Bank Atlas method (\$)	1,260	1,480	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	6.5	7.4	5.4
Adult literacy rate (% ages 15 and older)	71	77	
Gross primary, secondary, and tertiary school enrollment (%)	65	69	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	P P	Р	
Mobile telephone service Internet service	P C		
Foreign ownership (not allowed, restricted, allowed)	A	 A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	C	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.6		
Telecommunications investment (% of revenue)	65.5		
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	1.1	1.0	3.5
Mobile-cellular telephone subscriptions (per 100 people)	71.9	129.7	90.5
Fixed-broadband subscriptions (per 100 people)	0.2	0.3	1.9
Households with a computer (%)	7.9	43.5	
Households with Internet access at home (%)	5.0ª	34.14	24.3
Usage	8.0	4.2	7.5
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	89.5	4.2	152.0
Individuals using the Internet (%)	7.8	23.5ª	
Quality			
Population covered by at least a 3G mobile network (%)	36	75	
International Internet bandwidth (bit/s per Internet user)	90	2,841	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	7.7	2.9	6.9
Fixed-broadband sub-basket (\$ a month)	31.5	18.3	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	8.9	5.2	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.1	5.2	10.0
Trade		0.0	
ICT goods exports (% of total goods exports)	0.0 7.1	0.2 3.8	5.7 7.6
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	/.1 	3.8	7.0 48.0
Applications Online service index (0-1, 1=highest presence)	0.15	0.31	0.26
Secure Internet servers (per million people)	1.7	5.0	7.4

Gibraltar

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.03	0.03	1,187
Urban population (% of total)	100	100	81
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)			41,366 1.5
Adult literacy rate (% ages 15 and older)			1.5
Gross primary, secondary, and tertiary school enrollment (%)			95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly) International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.5 18.8
Telecommunications investment (% of revenue)			10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	82.0	79.8	41.2
Mobile-cellular telephone subscriptions (per 100 people)	102.6	129.5	124.5
Fixed-broadband subscriptions (per 100 people)	35.7	44.3	31.0
Households with a computer (%)			83.2
Households with Internet access at home (%)			85.0
Usage			
Int'I. voice traffic, total (minutes/subscription/month)	44.1		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	34.1 65.0		195.9 81.0
	00.0		01.0
Quality Population covered by at least a 3G mobile network (%)		100	99
	110,304		134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.4 14.4
Nobile-b balla, postpala computer-based, 1 GB (4 a month)			14.4
Trade ICT goods exports (% of total goods exports)			9.5
ICT goods imports (% of total goods imports)			11.2
ICT service exports (% of total service exports)			32.0
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	12,690.4	11,002.5	1,194.6

Greece

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	11	11	1,187
Urban population (% of total)	76	78	81
GNI per capita, World Bank Atlas method (\$)	27,680 -0.4	,	41,366 1.5
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	-0.4	-3.7	1.5
Gross primary, secondary, and tertiary school enrollment (%)	103	106	95
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly) International gateway(s)	С	С	
Mobile telephone service	P	P	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.1 15.5	3.0 17.5	2.5 18.8
	15.5	17.5	10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	53.1	46.5	41.2
Mobile-cellular telephone subscriptions (per 100 people)	110.6		124.5
Fixed-broadband subscriptions (per 100 people)	20.3	30.7	31.0
Households with a computer (%)	53.4	68.6	83.2
Households with Internet access at home (%)	46.4	68.1	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	12.8		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	45.0 44.4		195.9 81.0
individuals using the internet (%)	44.4	00.0	01.0
Quality Population covered by at least a 3G mobile network (%)	96	99	99
International Internet bandwidth (bit/s per Internet user)		100,861	
Affordability			
Mobile-cellular sub-basket (\$ a month)	39.2	7.8	14.2
Fixed-broadband sub-basket (\$ a month)	18.9	19.5	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	34.7	16.6	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	19.3	16.6	14.4
Trade		<u>.</u>	0.5
ICT goods exports (% of total goods exports)	2.0 4.8		9.5 11.2
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.8 7.6		32.0
Anniloshiana			
Applications Online service index (0-1, 1=highest presence)	0.36	0.61	0.67
Secure Internet servers (per million people)	126.4		1,194.6
,			

Greenland

Europe & Central Asia

High income

	Counti	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.06	0.06	1,187
Urban population (% of total)	84	86	81
GNI per capita, World Bank Atlas method (\$)	19,290		41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	1.5		1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access	20.0	07.0	44.0
Fixed-telephone subscriptions (per 100 people)	38.6 101.4	27.9 106.5	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	21.9	100.5	31.0
Households with a computer (%)	21.5		83.2
Households with Internet access at home (%)	66.6ª		85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	95.0 63.0	 67.6ª	195.9 81.0
Individuals using the Internet (%)	03.0	07.04	01.0
Quality Population covered by at least a 3G mobile network (%)	25		99
International Internet bandwidth (bit/s per Internet user)	12,632		134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade	0.1	0.0	9.5
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	6.1	0.0 4.5	9.5 11.2
ICT service exports (% of total service exports)		4.5	32.0
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	1,089.5	1,318.7	1,194.6

Grenada

Latin America & Caribbean

Upper middle income

			Upper middle-	
	Country data		a income group	
	2010	2015	2015	
Economic and social context				
Population (millions)	0.10	0.11	2,594	
Urban population (% of total)	36	36	64 9 196	
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	7,050 -0.6	8,430 2.2	8,186 4.5	
Adult literacy rate (% ages 15 and older)	0.0			
Gross primary, secondary, and tertiary school enrollment (%)	91		81	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Mixed	Mixed		
International gateway(s)				
Mobile telephone service	C	С		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	A	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No		
Sector efficiency and capacity	7.0	6.7	0.1	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	7.0 13.7	6.7 11.9	2.1 18.8	
	15.7	11.5		
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	27.1	25.3	17.3	
Mobile-cellular telephone subscriptions (per 100 people)	116.5	112.3	105.1	
Fixed-broadband subscriptions (per 100 people)	13.8		15.4	
Households with a computer (%)	35.0			
Households with Internet access at home (%)	28.0ª	42.8ª	52.2	
Usage	46.6	42.3	2.3	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	200.9	42.3	2.3 173.1	
Individuals using the Internet (%)	27.0ª			
Quality				
Population covered by at least a 3G mobile network (%)		100	69	
International Internet bandwidth (bit/s per Internet user)	123,838	191,597	26,098	
Affordability				
Mobile-cellular sub-basket (\$ a month)	16.7	26.2	8.5	
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	29.3	28.3 22.2	15.5 7.7	
Mobile-b'band, pistpaid randset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		17.0	11.1	
Trade				
ICT goods exports (% of total goods exports)	2.0		15.7	
ICT goods imports (% of total goods imports)	4.4		14.4	
ICT service exports (% of total service exports)	15.5	13.9	25.7	
Applications				
Online service index (0-1, 1=highest presence)	0.19	0.35	0.37	
Secure Internet servers (per million people)	86.0	46.8	34.7	

Guam

East Asia & Pacific

High income

County datagroup20102015201520102015Economic and social contextPopulation (millions)0.160.171,187Urban population (% of total)949581GNI per capita, World Bank Atlas method (\$)41,366GDP growth, 2005-10 and 2010-15 (avg. annual %)1.5Adult literacy rate (% ages 15 and older)100Gross primary, secondary, and tertiary school enrollment (%)95Sector structureSeparate telecommunications/ICT regulatorStatus of main fixed-line telephone operatorLevel of competition (competition, partial comp., monopoly)Internet serviceForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)2.5Telecommunications revenue (% of GDP)2.5Telecommunications investment (% of revenue)2.5
Population (millions) 0.16 0.17 1,187 Urban population (% of total) 94 95 81 GNI per capita, World Bank Atlas method (\$)
Urban population (% of total) 9.10 0.17 1,167 Urban population (% of total) 94 95 81 GNI per capita, World Bank Atlas method (\$) 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 1.5 Adult literacy rate (% ages 15 and older) 1.5 Adult literacy rate (% ages 15 and older) 100 Gross primary, secondary, and tertiary school enrollment (%) 100 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)
Urban population (% of total) 94 95 81 GNI per capita, <i>World Bank Atlas</i> method (\$) 94 95 81 GDP growth, 2005-10 and 2010-15 (avg. annual %) 15 Adult literacy rate (% ages 15 and older) 100 15 Gross primary, secondary, and tertiary school enrollment (%) 100 15 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) 100 Mobile telephone service Internet service 100 Foreign ownership (not allowed, restricted, allowed) 100 Reg. treatment of VoIP (banned, closed, no framework, allowed) 100 Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications revenue (% of ferenue) 100 2.5
GNI per capita, World Bank Atlas method (\$)
Adult literacy rate (% ages 15 and older) 1.3 Gross primary, secondary, and tertiary school enrollment (%) 100 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity 2.5 Telecommunications revenue (% of GDP) 2.5
Gross primary, secondary, and tertiary school enrollment (%) 100 95 Sector structure Separate telecommunications/ICT regulator 95 Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity 2.5 Telecommunications revenue (% of GDP) 2.5
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Elecommunications investment (% of revenue)
Separate telecommunications/ICT regulator
Status of main fixed-line telephone operator
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5
International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Lecommunications revenue (% of revenue) 2.5
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 2.5
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 2.5
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 2.5
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)
Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5
Telecommunications revenue (% of GDP)
Telecommunications investment (% of revenue) 2.3
Sector performance Access
Fixed-telephone subscriptions (per 100 people) 41.1 40.0 41.2
Mobile-cellular telephone subscriptions (per 100 people) 124.5
Fixed-broadband subscriptions (per 100 people) 1.9 1.8 31.0
Households with a computer (%)
Households with Internet access at home (%) 85.0
Usage
Int'l. voice traffic, total (minutes/subscription/month)
Domestic mobile traffic (minutes/subscription/month)
Individuals using the Internet (%) 54.0 ^a 73.1 ^a 81.0
Quality
Population covered by at least a 3G mobile network (%)
International Internet bandwidth (bit/s per Internet user) 134,761
Afferrad a hillion
Affordability Mobile-cellular sub-basket (\$ a month)
Fixed-broadband sub-basket (\$ a month)
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 10.4
Trade
ICT goods exports (% of total goods exports) 9.5 ICT goods imports (% of total goods imports)
ICT service exports (% of total service exports)
Applications
Online service index (0-1, 1=highest presence) 0.67
Secure Internet servers (per million people) 244.6 206.0 1,194.6

Guatemala

Latin America & Caribbean

Lower middle income

			Lower middle-
	Countr	y data 2015	income group 2015
Economic and social context			
Population (millions)	15	16	2,927
Urban population (% of total)	49	52	39
GNI per capita, World Bank Atlas method (\$)	2,680	3,590	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.6	3.8	5.4
Adult literacy rate (% ages 15 and older)	78	79	
Gross primary, secondary, and tertiary school enrollment (%)		69	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	A No	R A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	INO	А	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	10.4	10.6	3.5
Mobile-cellular telephone subscriptions (per 100 people)	126.0	111.5	
Fixed-broadband subscriptions (per 100 people)	1.8	2.8	
Households with a computer (%)	14.2ª	22.2	
Households with Internet access at home (%)	4.7ª	17.44	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	15.1	22.6	7.5
Domestic mobile traffic (minutes/subscription/month)	40.2	111.9	152.0
Individuals using the Internet (%)	10.5ª	27.14	28.6
Quality			
Population covered by at least a 3G mobile network (%)	53	92	
International Internet bandwidth (bit/s per Internet user)	3,984	24,676	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	7.8	27.4	6.9
Fixed-broadband sub-basket (\$ a month)	32.5	19.5	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	18.5	12.9	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	18.5	19.5	10.0
Toolo			
Trade ICT goods exports (% of total goods exports)	0.9	0.2	5.7
ICT goods imports (% of total goods imports)	6.8	5.9	7.6
ICT service exports (% of total service exports)	18.6	21.5	48.0
Applications	0.31	0.15	0.26
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	9.7	20.7	0.20 7.4
	5.1	20.1	4

Guinea

Sub-Saharan Africa

Low income

	Country	y data	Low- income group
	2010	2015	2015
Economic and social context Population (millions)	11	13	638
Urban population (% of total)	35	37	31
GNI per capita, World Bank Atlas method (\$)	390	470	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.2	2.1	5.4
Adult literacy rate (% ages 15 and older)	25	30	
Gross primary, secondary, and tertiary school enrollment (%)	51	53	60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C C	 C	
Mobile telephone service Internet service	c	C	
Foreign ownership (not allowed, restricted, allowed)	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		C	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.2	0.0	0.9
Mobile-cellular telephone subscriptions (per 100 people)	36.8	87.2	60.0
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	0.3
Households with a computer (%)	1.5ª	2.6ª	
Households with Internet access at home (%)	1.0ª	3.7ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			48.9
Individuals using the Internet (%)	1.0ª	4.7ª	9.5
Quality			
Population covered by at least a 3G mobile network (%)		39	51
International Internet bandwidth (bit/s per Internet user)	1,379	930	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	3.1	5.4	9.4
Fixed-broadband sub-basket (\$ a month)	502.5	51.1	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		3.3	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		9.4	10.8
Trade			
ICT goods exports (% of total goods exports)	0.0	0.0	
ICT goods imports (% of total goods imports)	5.2	3.2	3.4
ICT service exports (% of total service exports)	53.7	69.3	
Applications			
Online service index (0-1, 1=highest presence)	0.03	0.00	0.11
Secure Internet servers (per million people)	0.4	0.5	1.5

Guinea-Bissau

Sub-Saharan Africa

Low income

2010201520Economic and social contextPopulation (millions)22Urban population (% of total)4549GNI per capita, World Bank Atlas method (\$)540590GDP growth, 2005-10 and 2010-15 (avg, annual %)3.32.3Adult literacy rate (% ages 15 and older)60Gross primary, secondary, and tertiary school enrollment (%)Sector structureSetter structureYesSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)PPInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)BBSector performanceSector performanceAccessFixed-telephone subscriptions (per 100 people)0.00.0	638 31 620 5.4 60
Population (millions) 2 2 Urban population (% of total) 45 49 GNI per capita, World Bank Atlas method (\$) 540 590 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.3 2.3 Adult literacy rate (% ages 15 and older) 60 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications investment (% of GDP) Sector performance Access Ketelephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscri	31 620 5.4 60
Urban population (% of total) 45 49 GNI per capita, World Bank Atlas method (\$) 540 590 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.3 2.3 Adult literacy rate (% ages 15 and older) 60 Gross primary, secondary, and tertiary school enrollment (%) 60 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	31 620 5.4 60
GNI per capita, World Bank Atlas method (\$) 540 590 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.3 2.3 Adult literacy rate (% ages 15 and older) 60 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications investment (% of revenue) Sector performance Access Kacess Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	620 5.4 60
GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.3 2.3 Adult literacy rate (% ages 15 and older) 60 Gross primary, secondary, and tertiary school enrollment (%) 60 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) Internet service P Internet service P P Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector performance Aductions investment (% of revenue) Sector performance Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.0 Mobile	5.4 60
Adult literacy rate (% ages 15 and older) 60 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications investment (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P International gateway(s) P P Internet service C </td <td></td>	
Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P International gateway(s) P P P Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity . . Telecommunications revenue (% of GDP) . . Telecommunications investment (% of revenue) . . Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3 69.3	
Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P International gateway(s) P P P Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
International gateway(s) P P Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
AccessFixed-telephone subscriptions (per 100 people)0.0Mobile-cellular telephone subscriptions (per 100 people)42.769.3	
AccessFixed-telephone subscriptions (per 100 people)0.0Mobile-cellular telephone subscriptions (per 100 people)42.769.3	
Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 42.7 69.3	
Mobile-cellular telephone subscriptions (per 100 people)42.769.3	0.9
	60.0
	0.3
Households with a computer (%) 1.9 ^a 2.7 ^a	4.8
Households with Internet access at home (%) 1.3 ^a 2.1 ^a	7.1
Usage	
Int'l. voice traffic, total (minutes/subscription/month)	
Domestic mobile traffic (minutes/subscription/month)	48.9
Individuals using the Internet (%) 2.5 ^a 3.5 ^a	9.5
Quality	
Population covered by at least a 3G mobile network (%)	51
International Internet bandwidth (bit/s per Internet user) 2,573 2,923 4	1,245
Affordability	
Mobile-cellular sub-basket (\$ a month) 12.3	9.4
	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 58.3	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 58.3	10.8
Trade	
ICT goods exports (% of total goods exports)	
ICT goods imports (% of total goods imports)	3.4
ICT service exports (% of total service exports) 55.4 52.3	
Applications	
	0.11
Secure Internet servers (per million people) 0.6 1.6	1.5

Guyana

Latin America & Caribbean

Upper middle income

			Upper middle- income
	Countr 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	0.75	0.77	2,594
Urban population (% of total)	28	29	64
GNI per capita, World Bank Atlas method (\$)	2,900	4,090	
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.2	4.5	4.5
Adult literacy rate (% ages 15 and older)	85	88	
Gross primary, secondary, and tertiary school enrollment (%)	70		81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	М	
Mobile telephone service	Р	Р	
Internet service	Р	Р	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	 В	 C	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.3	4.6	2.1
Telecommunications investment (% of revenue)	19.1	10.7	
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	19.1	19.1	17.3
Mobile-cellular telephone subscriptions (per 100 people)	71.3	67.2	
Fixed-broadband subscriptions (per 100 people)	1.4	6.6	15.4
Households with a computer (%)	17.5ª	29.1	a 48.7
Households with Internet access at home (%)	15.7ª	26.1	a 52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	14.0	15.1	
Domestic mobile traffic (minutes/subscription/month)	36.3	30.2	
Individuals using the Internet (%)	29.9	38.2	a 52.1
Quality	0		00
Population covered by at least a 3G mobile network (%)	6,126	 25,607	69 26,098
International Internet bandwidth (bit/s per Internet user)	0,120	23,007	20,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	9.4	13.1	8.5
Fixed-broadband sub-basket (\$ a month)	46.8	24.2	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		13.6	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		15.5	11.1
Trade	0.1	0.1	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	2.9	2.3	
ICT service exports (% of total service exports)	32.1	2.3	
Applications			
Online service index (0-1, 1=highest presence)	0.18	0.24	0.37
	6.6	16.9	34.7

Haiti

Latin America & Caribbean

Low income

	Country	v data	Low- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	10	11	638
Urban population (% of total)	52	59	31
GNI per capita, World Bank Atlas method (\$)	650	820	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	1.2	3.4	5.4
Adult literacy rate (% ages 15 and older)	49	61	
Gross primary, secondary, and tertiary school enrollment (%)			60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	C	C	
Internet service	C R	C A	
Foreign ownership (not allowed, restricted, allowed)	No	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	INU	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.7		
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.5	0.4	0.9
Mobile-cellular telephone subscriptions (per 100 people)	40.4	69.9	60.0
Fixed-broadband subscriptions (per 100 people)	 5.9ª	0.0 9.4ª	0.3 4.8
Households with a computer (%) Households with Internet access at home (%)	5.9ª 2.7ª	9.4ª 4.4ª	
	2.1-	4.4-	7.1
Usage		0.0	
Int'l. voice traffic, total (minutes/subscription/month)		0.6	 48.9
Domestic mobile traffic (minutes/subscription/month)	 8.4ª	5.4 12.2ª	
Individuals using the Internet (%)	0.4 ⁴	12.20	9.0
Quality			
Population covered by at least a 3G mobile network (%)		40	51
International Internet bandwidth (bit/s per Internet user)			4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.6	9.3	9.4
Fixed-broadband sub-basket (\$ a month)	47.8	42.8	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	9.5	8.9	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	19.1	19.7	10.8
Trade			
ICT goods exports (% of total goods exports)			
ICT goods imports (% of total goods imports)			3.4
ICT service exports (% of total service exports)			
Applications			
Online service index (0-1, 1=highest presence)	0.02	0.11	0.11
Secure Internet servers (per million people)	1.0	2.1	1.5

Honduras

Latin America & Caribbean

Lower middle income

			Lower middle-
	Country data		income group
	2010	2015	2015
Economic and social context			
Population (millions)	8	8	2,927
Urban population (% of total)	52	55	39
GNI per capita, World Bank Atlas method (\$)	1,920	2,270	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.4	3.4	5.4
Adult literacy rate (% ages 15 and older)	85	88	
Gross primary, secondary, and tertiary school enrollment (%)	75	69	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)		Р	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	6.2	4.7	
Telecommunications investment (% of revenue)	10.1	12.8	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	8.8	5.9	3.5
Mobile-cellular telephone subscriptions (per 100 people)	124.7	95.5	90.5
Fixed-broadband subscriptions (per 100 people)	0.0	2.3	1.9
Households with a computer (%)	12.9ª	23.0	
Households with Internet access at home (%)	6.8ª	22.8	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	14.0	27.8	7.5
Domestic mobile traffic (minutes/subscription/month)	31.8	161.8	152.0
Individuals using the Internet (%)	11.1	20.4	28.6
Quality			
Population covered by at least a 3G mobile network (%)		83	
International Internet bandwidth (bit/s per Internet user)	5,916	23,617	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	14.2	14.1	6.9
Fixed-broadband sub-basket (\$ a month)	22.0	31.0	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	15.4	18.2	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.8	22.0	10.0
Trade			
ICT goods exports (% of total goods exports)	0.2	0.2	5.7
ICT goods imports (% of total goods imports)	5.9	5.2	7.6
ICT service exports (% of total service exports)	10.6	11.4	48.0
Applications			
Applications Online service index (0-1, 1=highest presence)	0.30	0.40	0.26

Hong Kong SAR, China

East Asia & Pacific

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	7	7	1,187
Urban population (% of total) GNI per capita, World Bank Atlas method (\$)	100 33,620		81 41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	3.4	2.8 93	1.5 95
Gross primary, secondary, and tertiary school enrollment (%) Sector structure	91	93	90
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator		Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)		С	
Mobile telephone service		С	
Internet service		С	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)) A	 C	
Sector efficiency and capacity	3.2		2.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.2 13.4		2.5 18.8
	10.1		10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	61.9		41.2
Mobile-cellular telephone subscriptions (per 100 people)	195.7	228.8	124.5
Fixed-broadband subscriptions (per 100 people)	30.7	31.9	31.0
Households with a computer (%)	77.9	80.4	83.2
Households with Internet access at home (%)	76.4	79.0	85.0
Usage Int'l. voice traffic, total (minutes/subscription/month)	63.8	56.2	
Domestic mobile traffic (minutes/subscription/month)	139.5	98.6	 195.9
Individuals using the Internet (%)	72.0	84.9	81.0
Quality	99	99	99
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)		4,155,651	
Affordability	,	, ,	,
Mobile-cellular sub-basket (\$ a month)	9.8	6.0	14.2
Fixed-broadband sub-basket (\$ a month)	19.1	51.3	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	42.3	9.8	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	27.9	27.9	14.4
Trade ICT goods exports (% of total goods exports)	44.2	45.5	9.5
ICT goods imports (% of total goods imports)	42.8	43.5	11.2
ICT service exports (% of total service exports)	16.4	15.1	32.0
Applications			0.67
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 456.3	 904.5	0.67 1,194.6
	100.0	507.0	1,107.0

Hungary

Europe & Central Asia

High income

	Countr	y data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	10	10	1,187
Urban population (% of total)	69	71	81
GNI per capita, World Bank Atlas method (\$)	13,090	12,990	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	-0.6	1.6	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 90	99 92	 95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly) International gateway(s)	С	С	
Mobile telephone service	P	P	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity	2.0	2.0	0.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.8 23.4	2.9 17.7	2.5 18.8
	20.4	11.1	10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	29.7	31.2	41.2
Mobile-cellular telephone subscriptions (per 100 people)	119.9	118.9	124.5
Fixed-broadband subscriptions (per 100 people)	21.6	27.4	31.0
Households with a computer (%)	66.4	75.0	83.2
Households with Internet access at home (%)	60.5	75.6	85.0
Usage	8.9		
Int'l. voice traffic, total (minutes/subscription/month)	8.9 121.1	 133.5	 195.9
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	65.0	72.8	81.0
• · · ·			
Quality Population covered by at least a 3G mobile network (%)	66	98	99
International Internet bandwidth (bit/s per Internet user)	9,985	55,410	134,761
Affordability	07.0	01 F	14.0
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	27.6 20.7	21.5 21.2	14.2 25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	8.9	7.1	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	8.9	11.7	14.4
Trade			
ICT goods exports (% of total goods exports)	25.6	12.0	9.5
ICT goods imports (% of total goods imports)	21.2	12.5	11.2
ICT service exports (% of total service exports)	28.6	29.1	32.0
Applications	0.50	0.56	0.67
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	166.2	366.3	1,194.6
	100.2	500.5	1,134.0

Iceland

Europe & Central Asia

	Country data		High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.32	0.33	1,187
Urban population (% of total)	94	94	81
GNI per capita, World Bank Atlas method (\$)	36,670	,	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.4	2.5	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 98		 95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	0	0	
International gateway(s) Mobile telephone service	C C	C C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	Â	
Reg. treatment of VoIP (banned, closed, no framework, allowed		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	1.9		2.5
Telecommunications investment (% of revenue)	17.2	16.4	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	60.9	49.9	41.2
Mobile-cellular telephone subscriptions (per 100 people)	107.2		124.5
Fixed-broadband subscriptions (per 100 people)	34.3	37.0	31.0
Households with a computer (%)	93.0	98.5ª	83.2
Households with Internet access at home (%)	92.0	96.5ª	85.0
Usage	10.0	117	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	19.0 176.3		 195.9
Individuals using the Internet (%)	93.4	98.2ª	
Quality			
Population covered by at least a 3G mobile network (%)	92	99	99
International Internet bandwidth (bit/s per Internet user)	297,960	725,806	134,761
Affordability	16.6	21.6	14.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	24.9		25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	2 1.0		10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	8.7	8.3	14.4
Trade			
ICT goods exports (% of total goods exports)	0.1	0.2	9.5
ICT goods imports (% of total goods imports)	4.3		11.2
ICT service exports (% of total service exports)		12.1	32.0
Applications Online service index (0-1, 1=highest presence)	0.40	0.61	0.67
Secure Internet servers (per million people)		3,406.7	1,194.6
······································			

India

South Asia

Lower middle income

	ower m		Lower middle-
	Country	y data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	1,231	1,311	2,927
Urban population (% of total)	31	33	39
GNI per capita, World Bank Atlas method (\$)	1,260	1,590	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	7.7	6.7	5.4
Adult literacy rate (% ages 15 and older)	69	72	
Gross primary, secondary, and tertiary school enrollment (%)	65	69	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	Р	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.1	1.8	
Telecommunications investment (% of revenue)	29.5	16.2	
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	2.9 62.4 0.9 6.7ª	2.0 78.8 1.3 14.1ª	3.5 90.5 1.9 19.3
Households with Internet access at home (%)	4.5	20.0	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	5.7	7.7	7.5
Domestic mobile traffic (minutes/subscription/month)	129.1	168.8	152.0
Individuals using the Internet (%)	7.5ª	26.04	28.6
Quality			
Population covered by at least a 3G mobile network (%)	0		
International Internet bandwidth (bit/s per Internet user)	5,917	5,725	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	3.9	2.8	6.9
Fixed-broadband sub-basket (\$ a month)	6.1	6.7	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	3.7	4.0	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.7	3.9	10.0
Trade			
ICT goods exports (% of total goods exports)	2.0	1.0	5.7
ICT goods imports (% of total goods imports)	6.3	6.3	7.6
ICT service exports (% of total service exports)	68.0	67.5	48.0
Applications	0.07	0.54	0.00
Online service index (0-1, 1=highest presence)	0.37	0.54	0.26
Secure Internet servers (per million people)	2.1	6.8	7.4

Indonesia

East Asia & Pacific

Lower middle income

			Lower middle-
	Count		income group
	2010	2015	2015
Economic and social context			
Population (millions)	242	258	,
Urban population (% of total)	50 2,530	54 3,440	39 2,035
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	2,550	3,440 5.5	2,035
Adult literacy rate (% ages 15 and older)	93	95	
Gross primary, secondary, and tertiary school enrollment (%)	74	77	
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	Р	
Mobile telephone service	С	Р	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)		R	
Reg. treatment of VoIP (banned, closed, no framework, allower	d) A	A	
Sector efficiency and capacity	1.0		
Telecommunications revenue (% of GDP)	1.8 20.6		
Telecommunications investment (% of revenue)	20.0		
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	17.0	8.8	3.5
Mobile-cellular telephone subscriptions (per 100 people)	87.8	132.3	
Fixed-broadband subscriptions (per 100 people)	0.9	1.1	
Households with a computer (%)	10.8	18.7	
Households with Internet access at home (%)	4.6	38.4	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		1.5	7.5
Domestic mobile traffic (minutes/subscription/month)			152.0
Individuals using the Internet (%)	10.9	22.0	28.6
Quality			
Population covered by at least a 3G mobile network (%)		60	
International Internet bandwidth (bit/s per Internet user)	2,473	6,584	10,372
Affordability	7.0	E 4	
Mobile-cellular sub-basket (\$ a month)	7.8	5.4 28.8	
Fixed-broadband sub-basket (\$ a month)	21.6 2.1	28.8 4.1	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.4	4.1	5.8 10.0
Trada			
Trade ICT goods exports (% of total goods exports)	5.0	3.5	5.7
ICT goods imports (% of total goods imports)	8.5	7.0	
ICT service exports (% of total service exports)	33.3	30.5	
Applications			
Applications Online service index (0-1, 1=highest presence)	0.24	0.36	0.26

The Little Data Book on Information and Communication Technology 2016

Iran, Islamic Rep.

Middle East & North Africa

Upper middle income

			Upper middle-
	Countr	-	income group
	2010	2015	2015
Economic and social context			
Population (millions)	74	79	2,594
Urban population (% of total)	71	73	64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	6,020 4.6	6,550 -1.0	8,186 4.5
Adult literacy rate (% ages 15 and older)	4.0	-1.0	4.5
Gross primary, secondary, and tertiary school enrollment (%)	72	88	81
	12	00	
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	М	
Mobile telephone service	С	С	
Internet service	С	Р	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)) C	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.1	1.8	2.1
Telecommunications investment (% of revenue)	91.4	1.0	18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	34.7	38.3	17.3
Mobile-cellular telephone subscriptions (per 100 people)	72.6	93.4	105.1
Fixed-broadband subscriptions (per 100 people)	1.3	10.9	15.4
Households with a computer (%)	35.2	53.44	
Households with Internet access at home (%)	21.4	52.2ª	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	2.8	1.8	2.3
Domestic mobile traffic (minutes/subscription/month)	210.4	147.6	173.1
Individuals using the Internet (%)	15.9	44.14	52.1
Quality	0	60	69
Population covered by at least a 3G mobile network (%)	2,264	8,502	26,098
International Internet bandwidth (bit/s per Internet user)	2,204	8,302	20,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	3.6	1.9	8.5
Fixed-broadband sub-basket (\$ a month)	16.6	3.8	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		3.8	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		3.8	11.1
Trade	0.0		15.7
ICT goods exports (% of total goods exports)	0.0 3.6		15.7 14.4
ICT goods imports (% of total goods imports)			25.7
ICT service exports (% of total service exports)			20.7
Applications			
Online service index (0-1, 1=highest presence)	0.27	0.37	0.37

Iraq

Middle East & North Africa

Upper middle income

			Upper middle-
	Country	y data 2015	income group 2015
Economic and social context			
Population (millions)	31	36	2,594
Urban population (% of total)	69	69	64
GNI per capita, World Bank Atlas method (\$)	4,410	5,550	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.5	5.6	4.5
Adult literacy rate (% ages 15 and older)		80	
Gross primary, secondary, and tertiary school enrollment (%)			81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	М	
Mobile telephone service	Р	Р	
Internet service	P	Р	
Foreign ownership (not allowed, restricted, allowed)	R B	 A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	D	А	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	5.6	5.6	17.3
Mobile-cellular telephone subscriptions (per 100 people)	75.1	93.8	
Fixed-broadband subscriptions (per 100 people)	0.0		15.4
Households with a computer (%)	20.6ª	27.2	
Households with Internet access at home (%)	11.6ª	18.7	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month)			173.1
Individuals using the Internet (%)	2.5	17.24	52.1
Quality			
Population covered by at least a 3G mobile network (%)		55ª	69
International Internet bandwidth (bit/s per Internet user)	103		26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.5	10.1	8.5
Fixed-broadband sub-basket (\$ a month)	211.3	28.3	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		10.3	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		12.8	11.1
Trade			
ICT goods exports (% of total goods exports)			15.7
ICT goods imports (% of total goods imports)			14.4
ICT service exports (% of total service exports)	4.5		25.7
A			
Applications	0.15	0.20	0.37
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.13	1.3	34.7

Ireland

Europe & Central Asia

High income

Country data	up
2010 2015 20	
Economic and social context	
	187
Urban population (% of total) 62 63	81
· · · · · · · · · · · · · · · · · · ·	366 1.5
GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.3 3.0 Adult literacy rate (% ages 15 and older)	1.5
Gross primary, secondary, and tertiary school enrollment (%) 104	95
Sector structure	
Separate telecommunications/ICT regulator Yes Yes	
Status of main fixed-line telephone operator Private Private	
Level of competition (competition, partial comp., monopoly)	
International gateway(s) C C Mobile telephone service C C	
Internet service C	
Foreign ownership (not allowed, restricted, allowed) R A	
Reg. treatment of VoIP (banned, closed, no framework, allowed) A A	
Sector efficiency and capacity	
Telecommunications revenue (% of GDP) 1.7 1.6	2.5
Telecommunications investment (% of revenue)15.718.8	18.8
Sector performance	
Access	
······································	41.2
······································	24.5 31.0
· ····································	33.2
	35.0
Usage	
Int'l. voice traffic, total (minutes/subscription/month)	
	95.9
Individuals using the Internet (%) 69.9 80.1	31.0
Quality	~~
Population covered by at least a 3G mobile network (%) 95 95	99 761
International Internet bandwidth (bit/s per Internet user) 64,090 155,521 134	/01
Affordability	
	14.2
((25.2
	10.4 14.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 38.6 14.4	14.4
TradeICT goods exports (% of total goods exports)7.55.7	9.5
	11.2
Sector when the (in the sector when the sector when the sector se	32.0
Applications	
	0.67
Secure Internet servers (per million people) 980.7 850.7 1,1	94.6

isle of Man

Europe & Central Asia

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.08	0.09	1,187
Urban population (% of total)	52	52	81
GNI per capita, World Bank Atlas method (\$)	72,040	83,920	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	7.1	5.3	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)			41.2
Mobile-cellular telephone subscriptions (per 100 people)			124.5
Fixed-broadband subscriptions (per 100 people)			31.0
Households with a computer (%)			83.2
Households with Internet access at home (%)			85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9 81.0
Individuals using the Internet (%)			01.0
Quality Population covered by at least a 3G mobile network (%)			99
International Internet bandwidth (bit/s per Internet user)			134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade			9.5
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)			9.5 11.2
ICT service exports (% of total service exports)			32.0
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	818.2	3,201.2	1,194.6

Israel

Middle East & North Africa

High income

	Counti	'y data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	8	8	1,187
Urban population (% of total)	92	92	81
GNI per capita, World Bank Atlas method (\$)	29,640	35,440	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.1	3.2	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 94	 94	 95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity	3.4	2.2	2.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	12.0	12.1	18.8
	12.0	12.1	10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	45.9	43.1	41.2
Mobile-cellular telephone subscriptions (per 100 people)	122.8	133.5	124.5
Fixed-broadband subscriptions (per 100 people)	23.7	27.4	31.0
Households with a computer (%)	76.6	83.5ª	83.2
Households with Internet access at home (%)	68.1	76.0ª	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)	67.5	78.9ª	81.0
Quality Population covered by at least a 3G mobile network (%)	99	99	99
International Internet bandwidth (bit/s per Internet user)	7,986		134,761
	1,000	00,000	101,101
Affordability			
Mobile-cellular sub-basket (\$ a month)	34.8	32.5	14.2
Fixed-broadband sub-basket (\$ a month)	8.8	33.2	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		15.4	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		32.1	14.4
Trade ICT goods exports (% of total goods exports)	12.3	11.2	9.5
ICT goods imports (% of total goods imports)	9.2	9.0	11.2
ICT service exports (% of total service exports)	56.1	65.1	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.58	0.87	0.67
Secure Internet servers (per million people)	396.7	288.8	1,194.6

Italy

Europe & Central Asia

	Countr	Country data		High- income try data group	
	2010	2015	2015		
Economic and social context					
Population (millions)	59	61	1,187		
Urban population (% of total)	68	69	81		
GNI per capita, World Bank Atlas method (\$)	37,700	32,790	41,366		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	-0.7	-1.0	1.5		
Adult literacy rate (% ages 15 and older)	99	99			
Gross primary, secondary, and tertiary school enrollment (%)	92	91	95		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Private			
Level of competition (competition, partial comp., monopoly)		0			
International gateway(s)	 P	C C			
Mobile telephone service Internet service	P C	C			
Foreign ownership (not allowed, restricted, allowed)	A	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A			
Sector efficiency and capacity	1.0	1.4	0.5		
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	1.9 20.0	1.4 27.7	2.5 18.8		
netecommunications investment (% of revenue)	20.0	21.1	10.0		
Sector performance					
Access	07.0	00.4			
Fixed-telephone subscriptions (per 100 people)	37.2 154.8	33.1 151.3	41.2 124.5		
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	21.6	23.8	31.0		
Households with a computer (%)	64.8	72.5	83.2		
Households with Internet access at home (%)	59.0	75.4	85.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	 102.6	 140.3	 195.9		
Individuals using the Internet (%)	53.7	65.6	81.0		
Quality	00	00	00		
Population covered by at least a 3G mobile network (%)	80 61,574	99 77 222	99 134,761		
International Internet bandwidth (bit/s per Internet user)	01,374	11,522	134,701		
Affordability					
Mobile-cellular sub-basket (\$ a month)	29.8	18.3	14.2		
Fixed-broadband sub-basket (\$ a month)	26.2	27.6	25.2		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.9 30.9	16.6 11.1	10.4 14.4		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	30.9	11.1	14.4		
Trade					
ICT goods exports (% of total goods exports)	2.2	1.7	9.5		
ICT goods imports (% of total goods imports)	7.7	4.8	11.2		
ICT service exports (% of total service exports)	30.8	30.5	32.0		
Applications					
Online service index (0-1, 1=highest presence)	0.29	0.75	0.67		
Secure Internet servers (per million people)	157.6	288.5	1,194.6		

Jamaica

Latin America & Caribbean

Upper middle income

		<u>.</u>	
	Countr		income group
	2010	2015	2015
Economic and social context		_	
Population (millions)	3	3	2,594
Urban population (% of total)	54	55	64
GNI per capita, World Bank Atlas method (\$)	4,570	5,010	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	-0.7	0.5 88	4.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)		00	 81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.3	4.2	2.1
Telecommunications investment (% of revenue)	26.7	26.1	18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	9.6 116.1 4.3	9.0 111.5 5.8	17.3 105.1 15.4
Households with a computer (%)	22.7	34.3ª	
Households with Internet access at home (%)	14.0	30.3	
Usage		70.4	
Int'l. voice traffic, total (minutes/subscription/month)	71.7	72.1	2.3
Domestic mobile traffic (minutes/subscription/month)	191.9	188.1	173.1
Individuals using the Internet (%)	27.7	43.24	52.1
Quality			
Population covered by at least a 3G mobile network (%)		90	69
International Internet bandwidth (bit/s per Internet user)	10,546	13,261	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.0	8.5	8.5
Fixed-broadband sub-basket (\$ a month)	29.0	23.4	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	19.7	15.0	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	16.9	12.8	11.1
Trade			
Trade ICT goods exports (% of total goods exports)	0.4	0.3	15.7
ICT goods imports (% of total goods imports)	3.9	3.7	14.4
ICT service exports (% of total service exports)	8.4	7.7	25.7
Applications	0.00		0.67
Online service index (0-1, 1=highest presence)	0.23	0.31	0.37
Secure Internet servers (per million people)	39.4	65.7	34.7

Japan

East Asia & Pacific

	Counti	Country data		Country data		Country data i		Country data		Country data	High- income
	2010	2015	group 2015								
Economic and social context											
Population (millions)	128	127	1,187								
Urban population (% of total)	91	93	81								
GNI per capita, World Bank Atlas method (\$)	41,980	36,680	41,366								
GDP growth, 2005-10 and 2010-15 (avg. annual %)	-0.2	0.7	1.5								
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 88	 90	 95								
	00										
Sector structure	Ν.	Ν.									
Separate telecommunications/ICT regulator	No Private	No Private									
Status of main fixed-line telephone operator	Private	Private									
Level of competition (competition, partial comp., monopoly) International gateway(s)	С	С									
Mobile telephone service	C	C									
Internet service	C	C									
Foreign ownership (not allowed, restricted, allowed)	Ā	Â									
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	А									
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.8		2.5								
Telecommunications investment (% of revenue)	11.1		2.5 18.8								
	11.1		10.0								
Sector performance											
Access		50.0									
Fixed-telephone subscriptions (per 100 people)	51.5	50.2	41.2								
Mobile-cellular telephone subscriptions (per 100 people)	96.8 26.8	125.1 30.5	124.5 31.0								
Fixed-broadband subscriptions (per 100 people)	20.8 83.4	30.5 80.0ª									
Households with a computer (%) Households with Internet access at home (%)	81.3	96.5ª									
	01.0	00.0									
Usage											
Int'l. voice traffic, total (minutes/subscription/month)	2.3										
Domestic mobile traffic (minutes/subscription/month)	98.1 78.2	 93.3ª	195.9 81.0								
Individuals using the Internet (%)	10.2	93.34	61.0								
Quality											
Population covered by at least a 3G mobile network (%)	100	100	99								
International Internet bandwidth (bit/s per Internet user)	15,730	62,618	134,761								
Affordability											
Mobile-cellular sub-basket (\$ a month)	52.8	29.4	14.2								
Fixed-broadband sub-basket (\$ a month)	23.1	18.0	25.2								
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		83.0	10.4								
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	61.9	43.7	14.4								
Trade											
ICT goods exports (% of total goods exports)	10.7	8.4	9.5								
ICT goods imports (% of total goods imports)	12.0	11.3	11.2								
ICT service exports (% of total service exports)	24.9	22.8	32.0								
Applications											
Online service index (0-1, 1=highest presence)	0.67	0.94	0.67								
Secure Internet servers (per million people)	646.7	971.0	1,194.6								

Jordan

Middle East & North Africa

Upper middle income

		Country data		
	2010	2015	2015	
Economic and social context				
Population (millions)	7	8	2,594	
Urban population (% of total)	82	84	64	
GNI per capita, World Bank Atlas method (\$)	3,820	4,680	8,186	
GDP growth, 2005-10 and 2010-15 (avg. annual %)	6.5	2.7	4.5	
Adult literacy rate (% ages 15 and older)	93 77	98	 81	
Gross primary, secondary, and tertiary school enrollment (%)	11		01	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Mixed	Private		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	С	С		
Mobile telephone service	Р	Р		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	Α	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) A	A		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	6.1	4.1	2.1	
Telecommunications investment (% of revenue)	19.2	15.4	18.8	
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)	7.5	4.8	17.3	
Mobile-cellular telephone subscriptions (per 100 people)	102.6	179.4	105.1	
Fixed-broadband subscriptions (per 100 people)	4.5	4.2	105.1	
Households with a computer (%)	46.7	47.04		
Households with Internet access at home (%)	21.6	75.94		
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	17.0	11.2	2.3	
Domestic mobile traffic (minutes/subscription/month)	230.2	256.6	173.1	
Individuals using the Internet (%)	27.2	53.44	52.1	
Quality				
Population covered by at least a 3G mobile network (%)	50	99	69	
International Internet bandwidth (bit/s per Internet user)	7,405	27,524	26,098	
Affordability				
Mobile-cellular sub-basket (\$ a month)	10.5	5.0	8.5	
Fixed-broadband sub-basket (\$ a month)	30.1	30.3	15.5	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	8.5	4.9	7.7	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	14.1	9.1	11.1	
Trade	1.0	1.0	157	
ICT goods exports (% of total goods exports)	1.3	1.9	15.7	
ICT goods imports (% of total goods imports)	4.3	3.2	14.4	
ICT service exports (% of total service exports)		5.6	25.7	
Applications				
	0.53	0.52	0.37	
Online service index (0-1, 1=highest presence)	0.00			

Kazakhstan

Europe & Central Asia

Upper middle income

		<u>.</u>	
	Country 0		income group 2015
	2010	2015	2013
Economic and social context Population (millions)	16	18	2,594
Urban population (% of total)	54	53	2,394
GNI per capita, World Bank Atlas method (\$)	7,440	11,580	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	5.7	4.7	4.5
Adult literacy rate (% ages 15 and older)	100	100	
Gross primary, secondary, and tertiary school enrollment (%)	86	92	81
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C P	C P	
Mobile telephone service Internet service	P C	P C	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	No	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.2	1.7	2.1
Telecommunications investment (% of revenue)	15.1	17.1	18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	25.5 121.9	24.7 187.2	17.3 105.1
Fixed-broadband subscriptions (per 100 people)	5.5	13.0	15.4
Households with a computer (%)	46.0ª	73.8	48.7
Households with Internet access at home (%)	44.0ª	82.2	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	2.9	3.8	
Domestic mobile traffic (minutes/subscription/month)	68.4	131.8	
Individuals using the Internet (%)	31.6	72.9	52.1
Quality		70	00
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 9,306	73 69,615	69 26,098
	0,000	00,010	20,000
Affordability	100	6.0	0 5
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	12.2 23.9	6.0 8.7	8.5 15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	6.6	4.5	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.6	4.5	11.1
Trade			
ICT goods exports (% of total goods exports)	0.0	0.8	15.7
ICT goods imports (% of total goods imports)	5.0	6.0	14.4
ICT service exports (% of total service exports)	11.6	11.1	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.53	0.75	0.37
Secure Internet servers (per million people)	5.2	17.6	34.7

Kenya

Sub-Saharan Africa

Lower middle income

	owerm			L	
	Countr	y data	income group		
	2010	2015	2015		
Economic and social context					
Population (millions)	40	46	2,927		
Urban population (% of total)	24	26	39		
GNI per capita, World Bank Atlas method (\$)	1,000	1,340	2,035		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.5	5.4	5.4		
Adult literacy rate (% ages 15 and older)	72	78			
Gross primary, secondary, and tertiary school enrollment (%)	67		68		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	С	С			
Mobile telephone service	С	С			
Internet service	С	С			
Foreign ownership (not allowed, restricted, allowed)	R	R			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	A			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.4	3.7			
Telecommunications investment (% of revenue)	52.2	30.2			
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	0.9 61.0 0.0 6.5ª 6.3ª	0.2 80.7 0.3 13.1ª 19.6ª			
	0.0-	13.0	24.5		
Usage Int'l. voice traffic, total (minutes/subscription/month)	3.3	2.6	7.5		
Domestic mobile traffic (minutes/subscription/month)	84.4	75.6	152.0		
Individuals using the Internet (%)	14.0	45.6ª			
Quality Population covered by at least a 3G mobile network (%)		69			
International Internet bandwidth (bit/s per Internet user)	3,529	40,067	 10,372		
Affordability					
Mobile-cellular sub-basket (\$ a month)	11.7	3.6	6.9		
Fixed-broadband sub-basket (\$ a month)	37.9	43.7	14.3		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	5.9	5.5	5.8		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.8	5.5	10.0		
Trade					
ICT goods exports (% of total goods exports)	1.4	0.8	5.7		
ICT goods imports (% of total goods imports)	7.2	5.3	7.6		
ICT service exports (% of total service exports)			48.0		
Applications	0.04	0.42	0.00		
Online service index (0-1, 1=highest presence)	0.24	0.43	0.26		
Secure Internet servers (per million people)	2.6	9.1	7.4		

Kiribati

East Asia & Pacific

Lower middle income

		Country data		-	
	2010	2015	2015		
Economic and social context					
Population (millions)	0.10	0.11	2,927		
Urban population (% of total)	44	44	39		
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	1,990 1.5	3,230 3.1	2,035 5.4		
Adult literacy rate (% ages 15 and older)	1.5				
Gross primary, secondary, and tertiary school enrollment (%)	72		68		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	 P	 P			
Mobile telephone service Internet service	Р С	P C			
Foreign ownership (not allowed, restricted, allowed)					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)					
Telecommunications investment (% of revenue)					
Sector performance					
Access	8.6	1.4	3.5		
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	10.8	38.8	90.5		
Fixed-broadband subscriptions (per 100 people)	0.9	0.1	1.9		
Households with a computer (%)		6.74	19.3		
Households with Internet access at home (%)		6.34	24.3		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)			7.5		
Domestic mobile traffic (minutes/subscription/month)			152.0		
Individuals using the Internet (%)	9.1	13.04	28.6		
Quality Population covered by at least a 3G mobile network (%)		63			
International Internet bandwidth (bit/s per Internet user)	2,256	2,916	 10,372		
Affordability					
Mobile-cellular sub-basket (\$ a month)	18.7	20.8	6.9		
Fixed-broadband sub-basket (\$ a month)	383.1	187.8	14.3		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		22.5	5.8		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		56.3	10.0		
Trade	7.3	0.0	5.7		
ICT goods exports (% of total goods exports)	7.3 1.8	0.0 5.0	5.7 7.6		
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	1.0	5.0	48.0		
Applications					
Online service index (0-1, 1=highest presence)	0.03	0.21	0.26		
Secure Internet servers (per million people)	9.7	8.9	7.4		
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Korea, Dem. People's Rep.

East Asia & Pacific

Low income

	Country	Country data		Country data		ind	Low- income group
	2010	2015	2015				
Economic and social context							
Population (millions)	25	25	638				
Urban population (% of total)	60	61	31				
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)			620 5.4				
Adult literacy rate (% ages 15 and older)	 100	100					
Gross primary, secondary, and tertiary school enrollment (%)	81		60				
Sector structure							
Separate telecommunications/ICT regulator	No	No					
Status of main fixed-line telephone operator	Public	Public					
Level of competition (competition, partial comp., monopoly) International gateway(s)							
Mobile telephone service							
Internet service							
Foreign ownership (not allowed, restricted, allowed)	No						
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	A					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)							
Sector performance							
Access	4.0	4 7	0.0				
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	4.8 1.8	4.7 12.9	0.9 60.0				
Fixed-broadband subscriptions (per 100 people)		12.0	0.3				
Households with a computer (%)			4.8				
Households with Internet access at home (%)			7.1				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)							
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 0.0ª		48.9 9.5				
individuals using the internet (%)	0.0-		5.5				
Quality Population covered by at least a 3G mobile network (%)			51				
International Internet bandwidth (bit/s per Internet user)			4,245				
Affordability Mobile-cellular sub-basket (\$ a month)			9.4				
Fixed-broadband sub-basket (\$ a month)			33.6				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			8.0				
Mobile-b'band, postpaid computer-based, 1 GB ($\$$ a month)			10.8				
Trade							
ICT goods exports (% of total goods exports)							
ICT goods imports (% of total goods imports)			3.4				
ICT service exports (% of total service exports)							
Applications	0.02	0.01	0.11				
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.02 0.0	0.01	0.11 1.5				
	0.0	0.0	1.0				

Korea, Rep.

East Asia & Pacific

group 2010 2015 2015 Economic and social context Population (millions) 49 51 1.187 Urban population (% of total) 82 82 81 GNI per capita, World Bank Atlas method (\$) 21,320 27,440 41,366 GDP growth, 2005-10 and 2010-15 (ag, anual %) 3.8 2.9 1.5 Adult fiteracy rate (% ages 15 and older) 98 . Gross primary, secondary, and tertiary school enrollment (%) 99 97 95 Sector structure Separate telecommunications/(CT regulator Yes Yes Yes International gateway(s) C C C Mobile telephone service P P International gateway(s) G C C C Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) R A 12.2 12.1 18.8 Sector efficiency and capacity Telecommunications investment (% of fevenue) 12.2 <th></th> <th>Count</th> <th colspan="2">Country data</th> <th colspan="2">H Country data</th> <th colspan="2">Country data in</th>		Count	Country data		H Country data		Country data in	
Population (millions) 49 51 1,187 Urban population (% of total) 82 82 81 GNI per capital, World Bank Atlas method (\$) 21,320 27,440 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 3.8 2.9 1.5 Adut literacy rate (% ages 15 and older) 98 Gross primary, secondary, and tertiary school enrollment (%) 99 97 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Private Private Private Private Level of competition (competition, partial comp., monopoly) Internet service P P Internet service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) R R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A 118.5 124.5 Telecommunications revenue (% of GDP) 4.1 3.8 2.5.5 40.2 31.0			-					
Population (millions) 49 51 1,187 Urban population (% of total) 82 82 81 GNI per capital, World Bank Atlas method (\$) 21,320 27,440 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 3.8 2.9 1.5 Adut literacy rate (% ages 15 and older) 98 Gross primary, secondary, and tertiary school enrollment (%) 99 97 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Private Private Private Private Level of competition (competition, partial comp., monopoly) Internet service P P Internet service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) R R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A 118.5 124.5 Telecommunications revenue (% of GDP) 4.1 3.8 2.5.5 40.2 31.0	Economic and social context							
GNI per capita, World Bank Atlas method (\$)21.32027.44041.366GDP growth, 2005-10 and 2010-15 (avg, annual %)3.82.91.5Adult literacy rate (% ages 15 and older)98Gross primary, secondary, and tertiary school enrollment (%)999795Sector structureSeparate telecommunications/ICT regulatorYesYesSparate telecommunications/ICT regulatorYesYesYesInternational gateway(s)CCCMobile telephone servicePPInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications investment (% of revenue)12.212.1Telecommunications investment (% of revenue)12.212.118.8Sector performanceAccess540.231.0Households with a computer (%)81.877.183.219.5Households with Internet access at home (%)96.898.885.0UsageInternational internet (%)83.789.981.0QualityPopulation covered by at least a 3G mobile network (%)999999Population covered by at least a 3G mobile network (%)999999International Internet bandwidth (bit/s per Internet user)11.81246.764134.761AccessInternational internet bandwidth (bit/s per Internet		49	51	1,187				
GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.8 2.9 1.5 Adut literacy rate (% ages 15 and older) 98 Gross primary, secondary, and tertiary school enrollment (%) 99 97 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Subtic of main fixed-line telephone operator Private Private Level of competition (competition, partial comp., monopoly) C C International gateway(s) C C C Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) R R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.1 3.8 2.5 Telecommunications investment (% of revenue) 12.2 12.1 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 58.9 58.1 41.2 Mobile-cellular telephone subscription/month) 3.5 2.5 D	Urban population (% of total)	82	82	81				
Adult literary rate (% ages 15 and older) 98 Gross primary, secondary, and tertiary school enrollment (%) 99 97 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Level of competition (competition, partial comp., monopoly) International gateway(s) C C C International gateway(s) C C C C C International gateway(s) C C C C C International gateway(s) C C C C C Internet service P P P International gateway(s) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.1 3.8 2.5 Telecommunications revenue (% of GDP) 14.1 3.8 2.5 40.2 31.0 Mobile-cellular telephone subscriptions (per 100 people) 104.8 118.5 124.5 14.2 Mobile-cellular telephone subscription/month 3.5 2.5 Households with a computer (%) 96.8 98.8 <	GNI per capita, World Bank Atlas method (\$)	21,320	27,440					
Gross primary, secondary, and tertiary school enrollment (%)999795Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorPrivatePrivateLevel of competition (competition, partial comp., monopoly)International gateway(s)CCMobile telephone servicePPPInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity12.212.118.8Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)58.958.141.2Mobile-cellular telephone subscriptions (per 100 people)104.8118.5124.5Fixed-telephone subscriptions (per 100 people)35.540.231.0Households with a computer (%)81.877.183.2Households with a computer (%)96.898.885.0UsageInt'l. voice traffic, total (minutes/subscription/month)175.6182.1195.9Individuals using the Internet (%)83.789.981.0QualityPopulation covered by at least a 3G mobile network (%)999999International Internet bandwidth (bit/s per Internet user)11,81246,764134,761AffordabilityMobile-cellular sub-basket (\$ a month)25.729.225.2Mobile-b'band, prepaid han			2.9	1.5				
Sector structure Yes Yes Separate telecommunications/ICT regulator Yes Yes Level of competition (competition, partial comp., monopoly) Private Private Internet service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.1 3.8 2.5 Telecommunications investment (% of revenue) 12.2 12.1 18.8 Sector performance A A A Access Fixed-telephone subscriptions (per 100 people) 58.9 58.1 41.2 Mobile cellular telephone subscriptions (per 100 people) 35.5 40.2 31.0 Households with Internet access at home (%) 96.8 98.8 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 3.5 2.5 Int'l. voice traffic, total (minutes/subscription/month) 3.5 2.5 Domestic mobile traffic (minutes/subscription/month)								
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Status of main fixed-line telephone operatorPrivatePrivateLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternational gateway(s)CCCMobile telephone servicePPPInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)4.13.82.5Telecommunications revenue (% of GDP)4.13.82.5Telecommunications investment (% of revenue)12.212.118.8Sector performanceAccessAccess41.2Mobile-cellular telephone subscriptions (per 100 people)104.8118.5124.5Fixed-broadband subscriptions (per 100 people)35.540.231.0Households with a computer (%)81.877.183.2Households with Internet access at home (%)96.898.885.0UsageInternational Internet (%)83.789.981.0QualityPopulation covered by at least a 3G mobile network (%)999999International Internet bandwidth (bit/s per Internet user)11.81246,764134,761Affordability25.518.014.214.2Mobile-cellular sub-basket (\$ a month)25.518.014.2Fixed-broadband sub-basket (\$ a month)22.518.014.2<								
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Fixed-telephone subscriptions (per 100 people) 58.9 58.1 41.2 Mobile-cellular telephone subscriptions (per 100 people) 104.8 118.5 124.5 Fixed-broadband subscriptions (per 100 people) 35.5 40.2 31.0 Households with a computer (%) 81.8 77.1 83.2 Households with Internet access at home (%) 96.8 98.8 85.0 Usage Int1. voice traffic, total (minutes/subscription/month) 3.5 2.5 Domestic mobile traffic (minutes/subscription/month) 3.5 2.5 Domestic mobile traffic (minutes/subscription/month) 175.6 182.1 195.9 Individuals using the Internet (%) 83.7 89.9 81.0 Quality Population covered by at least a 3G mobile network (%) 99 99 99 International Internet bandwidth (bit/s per Internet user) 11,812 46,764 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 4.9 10.4 Mobil	Sector performance							
Mobile-cellular telephone subscriptions (per 100 people) 104.8 118.5 124.5 Fixed-broadband subscriptions (per 100 people) 35.5 40.2 31.0 Households with a computer (%) 81.8 77.1 83.2 Households with internet access at home (%) 96.8 98.8 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 3.5 2.5 Domestic mobile traffic (minutes/subscription/month) 175.6 182.1 195.9 Individuals using the Internet (%) 83.7 89.9 81.0 Quality Population covered by at least a 3G mobile network (%) 99 99 99 International Internet bandwidth (bit/s per Internet user) 11,812 46,764 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 22.5 18.0 14.2 Fixed-broadband sub-basket (\$ a month) 23.4 9.7 14.4 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 4.9 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 23.4 9.7 14.4		50.0	50.4					
Fixed-broadband subscriptions (per 100 people) 35.5 40.2 31.0 Households with a computer (%) 81.8 77.1 83.2 Households with Internet access at home (%) 96.8 98.8 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 3.5 2.5 Domestic mobile traffic (minutes/subscription/month) 175.6 182.1 195.9 Individuals using the Internet (%) 83.7 89.9 81.0 Quality Population covered by at least a 3G mobile network (%) 99 99 99 International Internet bandwidth (bit/s per Internet user) 11.812 46,764 134,761 Affordability 25.5 18.0 14.2 Fixed-broadband sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-cellular sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 4.9 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 23.4 9.7 14.4 Trade 11.9 11.4 11.2 15.2 23.3 32.0 ICT go								
Households with a computer (%) 81.8 77.1 83.2 Households with Internet access at home (%) 96.8 98.8 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 3.5 2.5 Domestic mobile traffic (minutes/subscription/month) 175.6 182.1 195.9 Individuals using the Internet (%) 83.7 89.9 81.0 Quality 99 99 99 99 International Internet bandwidth (bit/s per Internet user) 11,812 46,764 134,761 Affordability 11,812 46,764 134,761 Affordability 22.5 18.0 14.2 Fixed-broadband sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-cellular sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-b'band, prepaid handset-based, 1 GB (\$ a month) 4.9 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 23.4 9.7 14.4 Trade 11.9 11.4 11.2 11.7 11.4 11.2 ICT goods imports (% of total goods exports) 15.2 23.3<								
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Domestic mobile traffic (minutes/subscription/month)175.6182.1195.9Individuals using the Internet (%)83.789.981.0QualityPopulation covered by at least a 3G mobile network (%)999999International Internet bandwidth (bit/s per Internet user)11.81246,764134,761Affordability22.518.014.2Mobile-cellular sub-basket (\$ a month)25.729.225.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)4.910.4Mobile-b'band, prepaid computer-based, 1 GB (\$ a month)23.49.714.4TradeIT.911.911.411.2ICT goods exports (% of total goods exports)15.223.332.0Applications0.0.11-highest presence)1.000.980.67		25	25					
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Population covered by at least a 3G mobile network (%) 99 99 99 International Internet bandwidth (bit/s per Internet user) 11,812 46,764 134,761 Affordability 11,812 46,764 134,761 Mobile-cellular sub-basket (\$ a month) 22.5 18.0 14.2 Fixed-broadband sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 4.9 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 23.4 9.7 14.4 Trade ICT goods exports (% of total goods exports) 21.4 19.8 9.5 ICT goods imports (% of total goods imports) 11.9 11.4 11.2 ICT service exports (% of total service exports) 15.2 23.3 32.0 Applications 0.01 0.98 0.67		00.1	00.0	01.0				
International Internet bandwidth (bit/s per Internet user) 11,812 46,764 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 22.5 18.0 14.2 Fixed-broadband sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 4.9 10.4 Mobile-b'band, prepaid handset-based, 1 GB (\$ a month) 4.9 10.4 Mobile-b'band, prepaid handset-based, 1 GB (\$ a month) 4.9 10.4 Trade ICT goods exports (% of total goods exports) 21.4 19.8 9.5 ICT goods imports (% of total goods imports) 11.9 11.4 11.2 ICT service exports (% of total service exports) 15.2 23.3 32.0 Applications 0.098 0.67 0.67		00	00	00				
AffordabilityMobile-cellular sub-basket (\$ a month)22.518.014.2Fixed-broadband sub-basket (\$ a month)25.729.225.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)4.910.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)23.49.714.4TradeICT goods exports (% of total goods exports)21.419.89.5ICT goods imports (% of total goods imports)11.911.411.2ICT service exports (% of total service exports)15.223.332.0ApplicationsOnline service index (0-1, 1-highest presence)1.000.980.67								
Mobile-cellular sub-basket (\$ a month) 22.5 18.0 14.2 Fixed-broadband sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 4.9 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 4.9 10.4 Trade ICT goods exports (% of total goods exports) 21.4 19.8 9.5 ICT goods imports (% of total goods imports) 11.9 11.4 11.2 ICT service exports (% of total service exports) 15.2 23.3 32.0 Applications 0.0 0.98 0.67	international internet bandwidth (bit/s per internet user)	11,012	40,704	134,701				
Fixed-broadband sub-basket (\$ a month) 25.7 29.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 4.9 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 23.4 9.7 14.4 Trade ICT goods exports (% of total goods exports) 21.4 19.8 9.5 ICT goods imports (% of total goods imports) 11.9 11.4 11.2 ICT service exports (% of total service exports) 15.2 23.3 32.0 Applications 0nline service index (0-1, 1=highest presence) 1.00 0.98 0.67	•							
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)4.910.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)23.49.714.4TradeICT goods exports (% of total goods exports)21.419.89.5ICT goods imports (% of total goods imports)11.911.411.2ICT service exports (% of total service exports)15.223.332.0Applications1.000.980.67								
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)23.49.714.4Trade ICT goods exports (% of total goods exports)21.419.89.5ICT goods imports (% of total goods imports)11.911.411.2ICT service exports (% of total service exports)15.223.332.0Applications Online service index (0-1, 1-highest presence)1.000.980.67								
Trade 21.4 19.8 9.5 ICT goods exports (% of total goods exports) 11.9 11.4 11.2 ICT service exports (% of total service exports) 15.2 23.3 32.0 Applications 0nline service index (0-1, 1=highest presence) 1.00 0.98 0.67								
ICT goods exports (% of total goods exports)21.419.89.5ICT goods imports (% of total goods imports)11.911.411.2ICT service exports (% of total service exports)15.223.332.0Applications1.000.980.67	Mobile-b balld, postpald computer-based, 1 db (4 a month)	23.4	5.1	14.4				
ICT goods imports (% of total goods imports)11.911.411.2ICT service exports (% of total service exports)15.223.332.0Applications1.000.980.67		04.4	10.0	0.5				
ICT service exports (% of total service exports) 15.2 23.3 32.0 Applications 0nline service index (0-1, 1=highest presence) 1.00 0.98 0.67								
Applications Online service index (0-1, 1=highest presence) 1.00 0.98 0.67								
Online service index (0-1, 1=highest presence)1.000.980.67	ICT SERVICE EXPORTS (% OF LOCAL SERVICE EXPORTS)	10.2	23.3	32.0				
Secure Internet servers (per million people) 1,128.1 2,319.6 1,194.6								
	Secure Internet servers (per million people)	1,128.1	2,319.6	1,194.6				

Kosovo

Europe & Central Asia

Lower middle income

		wer muule i		
	Country		income group	
	2010	2015	2015	
Economic and social context				
Population (millions)	2	2	2,927	
Urban population (% of total)			39	
GNI per capita, World Bank Atlas method (\$)	3,420	3,950	2,035	
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.2	3.0	5.4	
Adult literacy rate (% ages 15 and older)			68	
Gross primary, secondary, and tertiary school enrollment (%)			00	
Sector structure				
Separate telecommunications/ICT regulator				
Status of main fixed-line telephone operator				
Level of competition (competition, partial comp., monopoly)				
International gateway(s)				
Mobile telephone service				
Internet service				
Foreign ownership (not allowed, restricted, allowed)				
Reg. treatment of VoIP (banned, closed, no framework, allowed	d)			
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)				
Telecommunications investment (% of revenue)				
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	6.1 32.4 	 	3.5 90.5 1.9 19.3 24.3	
			24.0	
Usage			7 /	
Int'l. voice traffic, total (minutes/subscription/month)			7.5	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)			152.0 28.6	
			20.0	
Quality				
Population covered by at least a 3G mobile network (%)				
International Internet bandwidth (bit/s per Internet user)			10,372	
Affordability				
Mobile-cellular sub-basket (\$ a month)			6.9	
Fixed-broadband sub-basket (\$ a month)			14.3	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			5.8	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.0	
Trade				
ICT goods exports (% of total goods exports)			5.7	
ICT goods imports (% of total goods imports)			7.6	
ICT service exports (% of total service exports)	22.9	14.5	48.0	
Applications Online service index (0-1, 1=highest presence)			0.26	

Kuwait

Middle East & North Africa

	Countr	Country data		i Country data		Country data		Country data	High- income
	2010	2015	group 2015						
Economic and social context									
Population (millions)	3	4	1,187						
Urban population (% of total)	98	98	81						
GNI per capita, World Bank Atlas method (\$)	41,220	40,930	41,366						
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.0	2.7	1.5						
Adult literacy rate (% ages 15 and older)	96	96							
Gross primary, secondary, and tertiary school enrollment (%)		75	95						
Sector structure									
Separate telecommunications/ICT regulator	No	Yes							
Status of main fixed-line telephone operator	Public	Public							
Level of competition (competition, partial comp., monopoly)	М	М							
International gateway(s) Mobile telephone service	M	M							
Internet service	P	P							
Foreign ownership (not allowed, restricted, allowed)	R	R							
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В							
Sector efficiency and capacity									
Telecommunications revenue (% of GDP)			2.5						
Telecommunications investment (% of revenue)			18.8						
Sector performance									
Access									
Fixed-telephone subscriptions (per 100 people)	17.4	13.4	41.2						
Mobile-cellular telephone subscriptions (per 100 people)	133.0	231.8	124.5						
Fixed-broadband subscriptions (per 100 people)	1.5	1.4	31.0						
Households with a computer (%)	59.5ª	89.0ª							
Households with Internet access at home (%)	49.9ª	80.5ª	85.0						
Usage									
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)			 195.9						
Individuals using the Internet (%)	 61.4ª	 82.1ª							
	01.1	02.1	01.0						
Quality		100ª	99						
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	43,553		134,761						
	10,000	10,010	101,101						
Affordability	7.0								
Mobile-cellular sub-basket (\$ a month)	7.8 19.2	14.2 10.5	14.2 25.2						
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	28.6	10.5	23.2 10.4						
Mobile-b'band, prepaid nancset-based, Soo MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	25.0	36.6	10.4						
Trada									
Trade ICT goods exports (% of total goods exports)	0.3	0.1	9.5						
ICT goods imports (% of total goods imports)	6.4	7.2	11.2						
ICT service exports (% of total service exports)	39.5	45.0	32.0						
Applications									
Online service index (0-1, 1=highest presence)	0.46	0.57	0.67						
Secure Internet servers (per million people)	124.2	223.3	1,194.6						

Kyrgyz Republic

Europe & Central Asia

Lower middle income

	Country data		income group 2015
	2010	2013	2013
Economic and social context Population (millions)	5	6	2,927
Urban population (% of total)	э 35	36	2,927
GNI per capita, World Bank Atlas method (\$)	850	1,170	2.035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	5.1	5.0	2,000
Adult literacy rate (% ages 15 and older)	99	100	
Gross primary, secondary, and tertiary school enrollment (%)	73	79	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	C	
Internet service	C R	C	
Foreign ownership (not allowed, restricted, allowed)	No	A A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	INO	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	7.6	7.0	
Telecommunications investment (% of revenue)	18.6	3.5	
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	9.2 98.9 0.4 6.1 ^a 2.2 ^a	7.1 132.8 3.7 19.5ª 16.5ª	
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	6.9 78.7 16.3ª	16.0 252.4 30.2ª	7.5 152.0 28.6
Quality	32	59	
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	1,426	7,357	 10,372
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	2.9 48.1 12.1 16.3	3.2 8.9 4.7 3.1	6.9 14.3 5.8 10.0
Trade			
ICT goods exports (% of total goods exports)	0.6	0.1	5.7
ICT goods imports (% of total goods imports)	2.7	2.2	7.6
ICT service exports (% of total service exports)	27.7	14.4	48.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.32 1.1	0.28 11.4	0.26 7.4

Lao PDR

East Asia & Pacific

Lower middle income

Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure	Countr 2010 6 33 1,000 7.9 73 62	y data 2015 7 39 1,730 7.9 80 63	income group 2015 2,927 39 2,035 5.4
Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	6 33 1,000 7.9 73	7 39 1,730 7.9 80	2,927 39 2,035
Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	33 1,000 7.9 73	39 1,730 7.9 80	39 2,035
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	33 1,000 7.9 73	39 1,730 7.9 80	39 2,035
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	7.9 73	1,730 7.9 80	,
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	73	80	5.4
Gross primary, secondary, and tertiary school enrollment (%)			
	62	63	
Sector structure			68
Separate telecommunications/ICT regulator	Yes	No	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	М	
Mobile telephone service	P		
Internet service	P	M R	
Foreign ownership (not allowed, restricted, allowed)	R No	л С	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	INU	U	
Sector efficiency and capacity	1.9	3.2	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	20.9	3.2 0.7	
	20.5	0.7	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	1.6	13.7	3.5
Mobile-cellular telephone subscriptions (per 100 people)	62.6	53.1	90.5
Fixed-broadband subscriptions (per 100 people)	0.1	0.5	1.9
Households with a computer (%)	6.9ª	11.44	
Households with Internet access at home (%)	3.4ª	11.44	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	5.9	10.7	7.5
Domestic mobile traffic (minutes/subscription/month)	8.0	18.2	152.0
Individuals using the Internet (%)	7.0	18.24	28.6
Quality			
Population covered by at least a 3G mobile network (%)	17	65	
International Internet bandwidth (bit/s per Internet user)	1,117	16,795	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	6.3	6.8	6.9
Fixed-broadband sub-basket (\$ a month)	139.2	18.4	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		6.1	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.2	6.8	10.0
Trade			
ICT goods exports (% of total goods exports)			5.7
ICT goods imports (% of total goods imports)			7.6
ICT service exports (% of total service exports)			48.0
Applications			
Online service index (0-1, 1=highest presence)	0.08	0.14	0.26
Secure Internet servers (per million people)	0.8	2.5	7.4

Latvia

Europe & Central Asia

High income

	Count	Country data		i Country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	2	2	1,187		
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	68 12,600	67 14,900	81 41,366		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	-1.2	3.4	41,300		
Adult literacy rate (% ages 15 and older)	100	100	1.0		
Gross primary, secondary, and tertiary school enrollment (%)	90	93	95		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	 P	 P			
Mobile telephone service Internet service	P C	P C			
Foreign ownership (not allowed, restricted, allowed)	A	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.6	2.2	2.5		
Telecommunications investment (% of revenue)	25.9	26.4	18.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	25.5ª		41.2		
Mobile-cellular telephone subscriptions (per 100 people)	110.3ª		124.5		
Fixed-broadband subscriptions (per 100 people)	20.8		31.0		
Households with a computer (%) Households with Internet access at home (%)	62.8 59.8	76.1 76.0	83.2 85.0		
Usage Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)		222.2	 195.9		
Individuals using the Internet (%)	68.4	79.2	81.0		
• • •					
Quality Population covered by at least a 3G mobile network (%)			99		
International Internet bandwidth (bit/s per Internet user)	33,559	111,881	134,761		
Affordability					
Mobile-cellular sub-basket (\$ a month)	12.4	4.4	14.2		
Fixed-broadband sub-basket (\$ a month)	12.8	12.1	25.2		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		6.6	10.4		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	9.1	7.8	14.4		
Trade					
ICT goods exports (% of total goods exports)	5.8	9.8	9.5		
ICT goods imports (% of total goods imports)	6.4 20.3	9.0 24.3	11.2		
ICT service exports (% of total service exports)	20.3	24.3	32.0		
Applications	0.40	0.70	0.07		
Online service index (0-1, 1=highest presence)	0.42 185.0	0.70	0.67		
Secure Internet servers (per million people)	192.0	456.4	1,194.6		

Lebanon

Middle East & North Africa

Upper middle income

				Upp midd	
	Country data 2010 2015		income group 2015		
Economic and social context					
Population (millions)	4	6	2,594		
Urban population (% of total)	87	88	64		
GNI per capita, World Bank Atlas method (\$)	8,450	7,930	8,186		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	8.2	1.6	4.5		
Adult literacy rate (% ages 15 and older)	90 77	94 70	 81		
Gross primary, secondary, and tertiary school enrollment (%)	11	10	01		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	M			
Mobile telephone service	M	M			
Internet service	C R	С			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	 B			
	NO				
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)			2.1		
Telecommunications investment (% of revenue)			18.8		
Sector performance					
Access			. – –		
Fixed-telephone subscriptions (per 100 people)	19.3	19.2	17.3		
Mobile-cellular telephone subscriptions (per 100 people)	66.0	87.1	105.1		
Fixed-broadband subscriptions (per 100 people)	7.6 61.5ª	22.8 81.0ª	15.4 48.7		
Households with a computer (%) Households with Internet access at home (%)	50.7ª	69.0ª			
	50.1	00.0*	52.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	44.4		2.3		
Domestic mobile traffic (minutes/subscription/month)	189.4		173.1		
Individuals using the Internet (%)	43.7ª	74.0ª	52.1		
Quality					
Population covered by at least a 3G mobile network (%)	0	96ª			
International Internet bandwidth (bit/s per Internet user)	1,318	27,275	26,098		
Affordability					
Mobile-cellular sub-basket (\$ a month)	30.0	15.7	8.5		
Fixed-broadband sub-basket (\$ a month)	25.3	17.5	15.5		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		11.0	7.7		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		20.9	11.1		
Total					
Trade ICT goods exports (% of total goods exports)	7.1	1.0	15.7		
ICT goods imports (% of total goods imports)	2.8	2.5	14.4		
ICT service exports (% of total service exports)	26.7	23.2	25.7		
Applications	0.07	0.25	0.27		
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.27 27.9	0.35 48.2	0.37 34.7		
JEGUIE INTELLET SELVETS (DEL INTELLET DECOLE)	∠1.J	+0.Z	34.1		

The Little Data Book on Information and Communication Technology 2016

Lesotho

Sub-Saharan Africa

Lower middle income

	Lower III	ower midule moon			
	Countr	Country data		Low midd incor	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	2	2	2,927		
Urban population (% of total)	25	27	39		
GNI per capita, World Bank Atlas method (\$)	1,160	1.330	2,035		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.1	4.4	5.4		
Adult literacy rate (% ages 15 and older)	76	79			
Gross primary, secondary, and tertiary school enrollment (%) $% \left(\left({{{\bf{x}}_{i}}} \right) \right)$	65	63	68		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	С	Р			
Mobile telephone service	C	C			
Internet service	C	C			
Foreign ownership (not allowed, restricted, allowed)	A No.	A			
Reg. treatment of VoIP (banned, closed, no framework, allowe	ed) No	No			
Sector efficiency and capacity	2.0	2.0			
Telecommunications revenue (% of GDP)	3.0	3.8			
Telecommunications investment (% of revenue)	16.9	35.0			
Sector performance					
Access Fixed-telephone subscriptions (per 100 people)	1.9	2.1	3.5		
Mobile-cellular telephone subscriptions (per 100 people)	49.2	105.5	90.5		
Fixed-broadband subscriptions (per 100 people)	49.2	0.1	1.9		
Households with a computer (%)	5.0ª	7.5			
Households with Internet access at home (%)	2.5ª	11.5			
Usage Int'l. voice traffic, total (minutes/subscription/month)	1.9	5.4	7.5		
Domestic mobile traffic (minutes/subscription/month)	15.4	26.8			
Individuals using the Internet (%)	3.9ª	16.1	28.6		
Quality					
Population covered by at least a 3G mobile network (%)	32	95			
International Internet bandwidth (bit/s per Internet user)	335	3,862	10,372		
Affordability					
Mobile-cellular sub-basket (\$ a month)	24.1	8.7	6.9		
Fixed-broadband sub-basket (\$ a month)	51.0	7.8	14.3		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	26.8	7.8	5.8		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	31.7	17.2	10.0		
Trade					
ICT goods exports (% of total goods exports)	1.2		5.7		
ICT goods imports (% of total goods imports)	5.6		7.6		
ICT service exports (% of total service exports)	31.6	33.8	48.0		
Applications					
Online service index (0-1, 1=highest presence)	0.26	0.16	0.26		
Secure Internet servers (per million people)	0.5	4.2	7.4		

Liberia

Sub-Saharan Africa

Low income

	Country	Country data	
	2010	2015	group 2015
Economic and social context			
Population (millions)	4	5	638
Urban population (% of total)	48	50	31
GNI per capita, World Bank Atlas method (\$)	250	380	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	7.2	5.4	5.4
Adult literacy rate (% ages 15 and older)	43	48	
Gross primary, secondary, and tertiary school enrollment (%)			60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	Р	Р	
Internet service	C	С	
Foreign ownership (not allowed, restricted, allowed)	No C	 C	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	U	U	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	0.1 23.1		
Telecommunications investment (% of revenue)	23.1		
Sector performance			
Access	0.4	0.0	0.0
Fixed-telephone subscriptions (per 100 people)	0.1	0.2 81.1	0.9 60.0
Mobile-cellular telephone subscriptions (per 100 people)	39.7 0.0	0.2	0.3
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	1.1 ^a	0.2 2.4ª	
Households with Internet access at home (%)	0.9a	2.4° 2.7ª	
lleade			
Usage Int'l. voice traffic, total (minutes/subscription/month)	11.1	8.5	
Domestic mobile traffic (minutes/subscription/month)	51.6	52.4	48.9
Individuals using the Internet (%)	2.3	5.9ª	
Quality			
Quality Population covered by at least a 3G mobile network (%)	25	50	51
International Internet bandwidth (bit/s per Internet user)	604	7,522	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)		14.1	9.4
Fixed-broadband sub-basket (\$ a month)			33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		4.0	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		24.0	10.8
Trade			
ICT goods exports (% of total goods exports)			
ICT goods imports (% of total goods imports)			3.4
ICT service exports (% of total service exports)			
Applications			
Online service index (0-1, 1=highest presence)	0.06	0.08	0.11
Secure Internet servers (per million people)	0.8	3.6	1.5

Libya

Middle	East	&	North	Africa	

Upper middle income

		Country data	
	Countr		
	2010	2015	2015
Economic and social context			
Population (millions)	6	6	2,594
Urban population (% of total)	78	79	64
GNI per capita, World Bank Atlas method (\$)	12,250	6,030	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.6	-8.7	4.5
Adult literacy rate (% ages 15 and older)		91	
Gross primary, secondary, and tertiary school enrollment (%)			81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service	М	М	
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed) B	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.1
Telecommunications investment (% of revenue)			18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	20.3 ^a 180.4 ^a 1.2 14.6 ^a 9.2 ^a	10.0 157.0 1.0 22.0 ^a 20.4 ^a	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month)	 14.0ª	 19.0ª	173.1 52.1
Individuals using the Internet (%)	14.0 ^a	19.04	52.1
Quality			
Population covered by at least a 3G mobile network (%)			69
International Internet bandwidth (bit/s per Internet user)	11,825	11,238	26,098
Affordability Mobile-cellular sub-basket (\$ a month)		6.4	8.5
Fixed-broadband sub-basket (\$ a month)		21.7	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	41.2	36.2	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.9	10.9	11.1
Trade			
ICT goods exports (% of total goods exports)			15.7
ICT goods imports (% of total goods imports)	3.6		14.4
ICT service exports (% of total service exports)			25.7
Applications			
Online service index (0-1, 1=highest presence)	0.14	0.02	0.37
Secure Internet servers (per million people)	1.4	3.8	34.7

Liechtenstein

Europe & Central Asia

	Count	Country data		Country data		Hig Country data	
	2010	2015	2015				
Economic and social context Population (millions)	0.04	0.04	1,187				
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	14 115,530	14 	81 41,366				
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	3.0 86	 88	1.5 95				
Sector structure							
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Public	Yes Mixed					
International gateway(s) Mobile telephone service	M P	C C					
Internet service Foreign ownership (not allowed, restricted, allowed)	C A	C A					
Reg. treatment of VoIP (banned, closed, no framework, allowed)						
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)		 45.2	2.5 18.8				
Sector performance		-					
Access Fixed-telephone subscriptions (per 100 people)	54.3 98.3	45.9 108.8	41.2 124.5				
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	98.3 42.2 	42.7	31.0 83.2				
Households with Internet access at home (%)			85.0				
Usage Int'l. voice traffic, total (minutes/subscription/month)							
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	11.6 80.0ª		195.9 81.0				
Quality Population covered by at least a 3G mobile network (%)	98		99				
International Internet bandwidth (bit/s per Internet user)	6,022		134,761				
Affordability Mobile-cellular sub-basket (\$ a month)		30.1	14.2				
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 35.9	35.3 30.1	25.2 10.4 14.4				
Trade							
ICT goods exports (% of total goods exports)			9.5				
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)			11.2 32.0				
Applications Online service index (0-1, 1=highest presence)	0.52	0.51	0.67				
Secure Internet servers (per million people)	5,733.8	10,231.5	1,194.6				

Lithuania

Europe & Central Asia

High income

	Count	Country data		Country data		H Country data	
	2010	2015	2015				
Economic and social context Population (millions)	3	3	1,187				
Urban population (% of total)	67	67	81				
GNI per capita, World Bank Atlas method (\$)	12,430		41,366				
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.7	3.6	1.5				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	100 97	100 95	 95				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly) International gateway(s)		С					
Mobile telephone service	C	C					
Internet service	C	C					
Foreign ownership (not allowed, restricted, allowed)	A	Α					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	No					
Sector efficiency and capacity	0.1	10	0.5				
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.1 15.8	1.3 17.1	2.5 18.8				
	10.0	17.1	10.0				
Sector performance							
Access Fixed-telephone subscriptions (per 100 people)	24.6	18.7	41.2				
Mobile-cellular telephone subscriptions (per 100 people)	159.4		124.5				
Fixed-broadband subscriptions (per 100 people)	22.1	27.8	31.0				
Households with a computer (%)	59.2	67.6	83.2				
Households with Internet access at home (%)	60.6	68.3	85.0				
Usage	5.4	7.0					
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	5.4 115.4		 195.9				
Individuals using the Internet (%)	62.1	71.4	81.0				
Quality							
Population covered by at least a 3G mobile network (%)	46	100	99				
International Internet bandwidth (bit/s per Internet user)	49,203	158,030	134,761				
Affordability							
Mobile-cellular sub-basket (\$ a month)	9.6 10.3		14.2 25.2				
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.5	2.5	25.2 10.4				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	22.3	4.4	14.4				
Trade							
ICT goods exports (% of total goods exports)	2.7	2.9	9.5				
ICT goods imports (% of total goods imports)	4.1	4.1	11.2				
ICT service exports (% of total service exports)	9.7	12.4	32.0				
Applications	0.48	0.76	0.67				
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	188.6	243.6	0.67 1,194.6				
	100.0	240.0	1,134.0				

Luxembourg

Europe & Central Asia

	group
2010 201	5 2015
Economic and social context	
Population (millions) 0.51 0.5	7 1,187
Urban population (% of total) 89 9	0 81
GNI per capita, World Bank Atlas method (\$) 79,520 77,00	0 41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %) 1.9 2.	9 1.5
Adult literacy rate (% ages 15 and older)	
Gross primary, secondary, and tertiary school enrollment (%) 78	95
Sector structure	
Separate telecommunications/ICT regulator Yes Yes	
Status of main fixed-line telephone operator Public Publ	C
Level of competition (competition, partial comp., monopoly)	
	0
	0
	C A
i croigi chinerenip (net anoned) rectificed, anoned)	ч 4
Reg. treatment of VoIP (banned, closed, no framework, allowed) A	n
Sector efficiency and capacity	
Telecommunications revenue (% of GDP) 1.3 1. Telecommunications revenue (% of GDP) 1.0 1.2	
Telecommunications investment (% of revenue) 18.6 43.	2 18.8
Sector performance	
Access	
Fixed-telephone subscriptions (per 100 people)53.651.	
Mobile-cellular telephone subscriptions (per 100 people) 143.1 148.	
Fixed-broadband subscriptions (per 100 people) 33.2 36. Households with a computer (%) 90.2 95.	
Households with a computer (%)90.295.Households with Internet access at home (%)90.396.	
Usage	n
Int'l. voice traffic, total (minutes/subscription/month) 69.1 59. Domestic mobile traffic (minutes/subscription/month) 78.9 82.	
Individuals using the Internet (%) 90.6 97.	5 61.0
Quality	
Population covered by at least a 3G mobile network (%) 90 9	
International Internet bandwidth (bit/s per Internet user) 2,521,959 7,186,37	0 134,701
Affordability	
Mobile-cellular sub-basket (\$ a month) 25.8 22.	
Fixed-broadband sub-basket (\$ a month) 38.1 32. Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 39.	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 39. Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 11.	
	1 17.7
Trade	n 0 <i>5</i>
ICT goods exports (% of total goods exports) 2.9 2. ICT goods imports (% of total goods imports) 4.9 4.	
ICT goods imports (% of total goods imports)4.94.ICT service exports (% of total service exports)17.321.	
	5 52.0
Applications	o o o-
Online service index (0-1, 1=highest presence) 0.38 0.6	
Secure Internet servers (per million people) 1,412.4 2,913.	9 1,194.6

Macao SAR, China

East Asia & Pacific

High income

	Count	Country data		Country data		i Country data	
	2010	2015	group 2015				
Economic and social context Population (millions)	0.53	0.59	1,187				
Urban population (% of total)	100	100	81				
GNI per capita, World Bank Atlas method (\$)	45,890	76,300	41,366				
GDP growth, 2005-10 and 2010-15 (avg. annual %)	9.7	4.2	1.5				
Adult literacy rate (% ages 15 and older)	96	96					
Gross primary, secondary, and tertiary school enrollment (%)			95				
Sector structure							
Separate telecommunications/ICT regulator		 Dublis					
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)		Public					
International gateway(s)							
Mobile telephone service							
Internet service							
Foreign ownership (not allowed, restricted, allowed)							
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	Α					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	1.8	1.4	2.5				
Telecommunications investment (% of revenue)	10.2	11.5	18.8				
Sector performance							
Access							
Fixed-telephone subscriptions (per 100 people)	31.5	25.0	41.2				
Mobile-cellular telephone subscriptions (per 100 people)	209.9	324.4	124.5				
Fixed-broadband subscriptions (per 100 people)	24.7	29.1	31.0				
Households with a computer (%) Households with Internet access at home (%)	83.0 75.5	79.0 86.3	83.2 85.0				
	75.5	00.3	85.0				
Usage	25.0	07.0					
Int'l. voice traffic, total (minutes/subscription/month)	35.0		 195.9				
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 55.2	 77.6	81.0				
	00.2	11.0	01.0				
Quality	100	100	99				
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)		111,931					
	52,150	111,551	104,701				
Affordability							
Mobile-cellular sub-basket (\$ a month)	5.7	5.7	14.2				
Fixed-broadband sub-basket (\$ a month)	17.2	17.3	25.2				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	37.6 37.3	22.3 43.6	10.4 14.4				
Mobile-b balld, postpaid computer-based, 1 db (4 a month)	57.5	43.0	14.4				
Trade	4.6	12.2	9.5				
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	4.0	12.2	9.5 11.2				
ICT service exports (% of total service exports)	0.9	0.5	32.0				
· · · · · · · · · · · · · · · · · · ·							
Applications			0.67				
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 213.2	 466.3	0.67				
Secure miterier servers (per million people)	213.2	400.3	1,134.0				

Macedonia, FYR

Europe & Central Asia

Upper middle income

	ppern		
	Counti 2010	y data 2015	income group 2015
Economic and social context			
Population (millions)	2	2	2,594
Urban population (% of total)	57	57	64
GNI per capita, World Bank Atlas method (\$)	4,720	5,140	,
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.0	2.3	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 71	98	 81
Sector structure	Yes	Yes	
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	matou	instou	
International gateway(s)			
Mobile telephone service	C	C	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	 A	 A	
Sector efficiency and capacity	47	20	2.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	4.7 14.0	3.8 22.2	
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	19.7 102.4 12.3 53.6 46.1	17.7 105.4 17.2 68.4 69.4	105.1 15.4 48.7
Usage Int'l. voice traffic, total (minutes/subscription/month)	9.0	7.8	2.3
Domestic mobile traffic (minutes/subscription/month)	102.6	186.3	173.1
Individuals using the Internet (%)	51.9	70.4	52.1
Quality			
Population covered by at least a 3G mobile network (%)	67	98	
International Internet bandwidth (bit/s per Internet user)	16,498	53,890	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	23.4	10.6	
Fixed-broadband sub-basket (\$ a month)	12.8	10.8	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.2 6.2	5.4 5.4	
Nobile-b balla, postpala computer-based, 1 db (4 a month)	0.2	5.4	11.1
Trade	0.3	0.4	157
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	0.3 4.8	0.4 3.9	
ICT service exports (% of total service exports)	29.8	22.3	
Applications Online service index (0-1, 1=highest presence)	0.32	0.24	0.37
Secure Internet servers (per million people)	24.2	91.4	34.7
(F			

Madagascar

Sub-Saharan Africa

Low income

	Country	Country data		Country data		ا in Country data و	
	2010	2015	group 2015				
Economic and social context							
Population (millions)	21	24	638				
Urban population (% of total)	32	35	31				
GNI per capita, World Bank Atlas method (\$)	420	420	620				
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.0 64	2.6 65	5.4				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	66		60				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	 C	 C					
Mobile telephone service Internet service	C	C					
Foreign ownership (not allowed, restricted, allowed)	R	R					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	C					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	3.5	3.2					
Telecommunications investment (% of revenue)	29.0	19.4					
Sector performance							
Access	0.7	1.0	0.9				
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	36.6	46.0	60.0				
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	0.3				
Households with a computer (%)	1.4	5.3ª	4.8				
Households with Internet access at home (%)	1.3ª	5.8ª	7.1				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	1.7	1.0					
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	3.3 1.7ª	2.4 4.2ª	48.9 9.5				
Quality Population covered by at least a 3G mobile network (%)			51				
International Internet bandwidth (bit/s per Internet user)	728	12,420	4,245				
Affordability							
Mobile-cellular sub-basket (\$ a month)	15.4	15.2	9.4				
Fixed-broadband sub-basket (\$ a month)	90.6	50.8	33.6				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.6 21.0	10.2 15.2	8.0 10.8				
mobile-b balla, postpala computer-based, 1 db (4 a month)	21.0	15.2	10.0				
Trade ICT goods exports (% of total goods exports)	0.2	0.1					
ICT goods imports (% of total goods imports)	3.1	2.5	3.4				
ICT service exports (% of total service exports)	22.1	15.2					
Applications							
Online service index (0-1, 1=highest presence)	0.17	0.24	0.11				
Secure Internet servers (per million people)	0.5	1.7	1.5				

Malawi

Sub-Saharan Africa

Low income

	Country data		Low- income
	2010	2015	group 2015
Economic and social context	2010	2010	2010
Population (millions)	15	17	638
Urban population (% of total)	16	16	31
GNI per capita, World Bank Atlas method (\$)	440	350	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	7.7	4.2	5.4
Adult literacy rate (% ages 15 and older)	61	66	
Gross primary, secondary, and tertiary school enrollment (%)	68		60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	C	
Mobile telephone service	P P	C C	
Internet service	P R	R	
Foreign ownership (not allowed, restricted, allowed)	к С	B	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	U	D	
Sector efficiency and capacity	2.0	0.0	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.0	2.9	
Sector performance			
Access	1.0	0.3	0.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	20.8	35.3	60.0
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	0.3
Households with a computer (%)	2.8ª	5.8ª	
Households with Internet access at home (%)	5.0ª	9.1ª	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		3.9	
Domestic mobile traffic (minutes/subscription/month)	5.2	35.7	48.9
Individuals using the Internet (%)	2.3	9.3ª	9.5
Quality			
Population covered by at least a 3G mobile network (%)	2	32	51
International Internet bandwidth (bit/s per Internet user)	2,034	2,429	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	10.8	10.9	9.4
Fixed-broadband sub-basket (\$ a month)	492.6	10.3	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	9.4	5.2	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		7.9	10.8
Trade			
ICT goods exports (% of total goods exports)	0.4	0.6	
ICT goods imports (% of total goods imports)	5.2	3.4	3.4
ICT service exports (% of total service exports)	12.6	30.6	
Applications			
Online service index (0-1, 1=highest presence)	0.02	0.17	0.11
Secure Internet servers (per million people)	0.3	1.3	1.5

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Malaysia

East Asia & Pacific

Upper middle income

			middle-
	Counti 2010	y data 2015	income group 2015
Economic and social context	2020	2010	
Population (millions)	28	30	2.594
Urban population (% of total)	71	75	64
GNI per capita, World Bank Atlas method (\$)	8,280	10,570	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.1	5.3	
Adult literacy rate (% ages 15 and older)	93	95	
Gross primary, secondary, and tertiary school enrollment (%)	71	73	81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) A	A	
Sector efficiency and capacity	4.7	2.0	0.4
Telecommunications revenue (% of GDP)	4.7	3.8	
Telecommunications investment (% of revenue)	14.4	18.6	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	16.3	14.3	17.3
Mobile-cellular telephone subscriptions (per 100 people)	119.7	14.5	
Fixed-broadband subscriptions (per 100 people)	7.4	9.0	
Households with a computer (%)	61.8	67.6	
Households with Internet access at home (%)	55.6	70.1	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month)			173.1
Individuals using the Internet (%)	56.3	71.1	52.1
Quality			
Population covered by at least a 3G mobile network (%)	81	92	69
International Internet bandwidth (bit/s per Internet user)	11,495	34,119	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	8.8	5.2	8.5
Fixed-broadband sub-basket (\$ a month)	20.5	10.3	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		8.1	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.5	12.2	11.1
Trade	24.0	00 7	157
ICT goods exports (% of total goods exports)	34.0	28.7	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	29.8 20.2	23.1 23.7	14.4 25.7
Applications Online service index (0-1, 1=highest presence)	0.63	0.68	0.37
	41.9	103.8	34.7

Maldives

South Asia

Upper middle income

			Upper middle- income
	Countr	y data 2015	group 2015
	2010	2013	2013
Economic and social context	0.37	0.41	2 504
Population (millions) Urban population (% of total)	40	46	2,594 64
GNI per capita, World Bank Atlas method (\$)	5,360	6,670	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	7.9	4.7	4.5
Adult literacy rate (% ages 15 and older)	98	99	
Gross primary, secondary, and tertiary school enrollment (%)			81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	 P	 P	
Mobile telephone service Internet service	г 	r 	
Foreign ownership (not allowed, restricted, allowed)	Ä	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	8.7	6.1	17.3
Mobile-cellular telephone subscriptions (per 100 people)	151.8 4.8	206.7 6.5	105.1 15.4
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	4.0 55.5	68.5ª	
Households with a computer (%)	23.5	49.6	
Usage Int'l. voice traffic, total (minutes/subscription/month)	32.7	33.9	2.3
Domestic mobile traffic (minutes/subscription/month)	209.3	209.5	173.1
Individuals using the Internet (%)	26.5	54.54	
Quality			
Population covered by at least a 3G mobile network (%)	57	1004	69
International Internet bandwidth (bit/s per Internet user)	33,447	88,008	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	6.8	6.1	8.5
Fixed-broadband sub-basket (\$ a month)	9.3	20.7	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.4	6.4	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	10.4	19.5	11.1
Trade			15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	 6.5	4.4	15.7
ICT service exports (% of total service exports)		4.4 	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.16	0.36	0.37
Secure Internet servers (per million people)	46.3	102.6	34.7

Mali

Sub-Saharan Africa

Low income

	Country	y data	Low- income group
	2010	2015	2015
Economic and social context			
Population (millions)	15	18	638
Urban population (% of total)	36	40	31
GNI per capita, World Bank Atlas method (\$)	730	790	620
GDP growth, 2005–10 and 2010–15 (avg. annual %)	10.4	8.3	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	31 50	33	 60
Sector structure Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	mixed	mixed	
International gateway(s)	Р	Р	
Mobile telephone service	Р	P	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	Ā	Ā	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.3	6.2	
Telecommunications investment (% of revenue)	34.3	15.8	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.8	1.0	0.9
Mobile-cellular telephone subscriptions (per 100 people)	53.2	139.6	60.0
Fixed-broadband subscriptions (per 100 people)	0.1	0.0	0.3
Households with a computer (%)	1.8ª	3.3	4.8
Households with Internet access at home (%)	1.2ª	8.2	7.1
Usage	2.0	2.0	
Int'l. voice traffic, total (minutes/subscription/month)	3.9 2.6	3.9 15.6	 48.9
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	2.0 2.0ª	10.3ª	
	2.0	10.0	0.0
Quality Population covered by at least a 3G mobile network (%)			51
International Internet bandwidth (bit/s per Internet user)	2,771	1,279	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.9	12.4	9.4
Fixed-broadband sub-basket (\$ a month)	50.1	33.6	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	9.2	7.9	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	14.7	12.7	10.8
Trade			
ICT goods exports (% of total goods exports)	0.1		
ICT goods imports (% of total goods imports)	2.6		3.4
ICT service exports (% of total service exports)	33.9	42.5	
Applications			
Online service index (0-1, 1=highest presence)	0.18	0.13	0.11
Secure Internet servers (per million people)	0.7	1.3	1.5

Malta

Middle East & North Africa

High income

	Count	ry data	High- income
	2010	2015	group 2015
Economic and social context	2010	2010	2010
Population (millions)	0.41	0.43	1,187
Urban population (% of total)	95	95	81
GNI per capita, World Bank Atlas method (\$)	20,090	21,000	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.2	1.7	1.5
Adult literacy rate (% ages 15 and older)	93	94	
Gross primary, secondary, and tertiary school enrollment (%)	83	79	95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)	С	0	
International gateway(s) Mobile telephone service	C	C C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.2	2.8	2.5
Telecommunications investment (% of revenue)	15.8		18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	58.3	53.4	41.2
Mobile-cellular telephone subscriptions (per 100 people)	107.3	129.3	124.5
Fixed-broadband subscriptions (per 100 people)	29.6	37.8	31.0
Households with a computer (%)	73.1	81.1	83.2
Households with Internet access at home (%)	70.4	81.9	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	11.7		
Domestic mobile traffic (minutes/subscription/month)	68.4		195.9
Individuals using the Internet (%)	63.0	76.2	81.0
Quality			
Population covered by at least a 3G mobile network (%)		100	99
International Internet bandwidth (bit/s per Internet user)	464,099	1,220,570	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	20.6	19.7	14.2
Fixed-broadband sub-basket (\$ a month)	18.2	26.1	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	25.7	13.3	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	19.3	11.1	14.4
Trade	~~~~		0.5
ICT goods exports (% of total goods exports)	30.9		9.5
ICT goods imports (% of total goods imports)	15.4 19.1	6.9 25.8	11.2 32.0
ICT service exports (% of total service exports)	19.1	20.8	32.0
Applications	0.47	0.40	0.07
Online service index (0-1, 1=highest presence)	0.47	0.40	0.67
Secure Internet servers (per million people)	1,375.1	1,866.3	1,194.6

Marshall Islands

East Asia & Pacific	Upper m	niddle i	ncome
	Countr	v data	Upper middle- income
	2010	2015	group 2015
Economic and social context Population (millions) Urban population (% of total)	0.05	0.05 73	2,594 64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	3,720 0.7 98 	4,390 1.4 98 	8,186 4.5 <i>81</i>
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service	No Mixed <i>M</i>	No Mixed M	
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	M A ed) B	M A A	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			2.1 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	 	4.5 29.2 1.9 	17.3 105.1 15.4 48.7 52.2
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 7.0ª	 19.3ª	2.3 173.1 52.1
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 12,262	 75,844	69 26,098
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	22.2 50.0 	22.2 50.0 	8.5 15.5 7.7 11.1
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	 	 	15.7 14.4 25.7
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.03 114.4	<i>0.11</i> 113.2	0.37 34.7

Mauritania

Sub-Saharan Africa

Lower middle income

Economic and social context Population (millions) 4 Urban population (% of total) 57 GNI per capita, World Bank Atlas method (\$) 1,140 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.9 Adult literacy rate (% ages 15 and older) 46 Gross primary, secondary, and tertiary school enrollment (%) 46 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C Koreigen ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 Telecommunications investment (% of revenue) 19.4 Sector performance Access Fixed-telephone subscriptions (per 100 people) 2.0 Mobile-cellular telephone subscriptions (per 100 people) 0.2 Households with a computer (%) 3.0 ^a Households with a computer (%) 3.0 ^a Households with interne	data 2015 4 60 1,370 5.3 52 50 Yes Mixed C C C C C C A C C A C	income group 2015 2,927 39 2,035 5.4 68
Population (millions) 4 Urban population (% of total) 57 GNI per capita, World Bank Atlas method (\$) 1,140 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.9 Adult literacy rate (% ages 15 and older) 46 Gross primary, secondary, and tertiary school enrollment (%) 46 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C Internet service C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No No Sector performance C Fixed-telephone subscriptions (per 100 people) 2.0 Mobile-cellular telephone subscriptions (per 100 people) 0.2 Households with a computer (%) 3.0 ^a Households with a computer (%) 3.0 ^a Households with Internet access at home (%) 1.6 ^a Usage Int'1. voice traffic, total (minutes/subscription/month) 5.2 Domestic mobile traffic (minutes/subscription/month) 5.2	60 1,370 5.3 52 50 Yes Mixed C C C C A	39 2,035 5.4
Population (millions) 4 Urban population (% of total) 57 GNI per capita, World Bank Atlas method (\$) 1,140 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.9 Adult literacy rate (% ages 15 and older) 46 Gross primary, secondary, and tertiary school enrollment (%) 46 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C Internet service C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector performance C Access Fixed-telephone subscriptions (per 100 people) 2.0 Mobile-cellular telephone subscriptions (per 100 people) 0.2 Households with a computer (%) 3.0 ^a Households with Internet access at home (%) 1.6 ^a Usage Int'1. voice traffic, total (minutes/subscription/month) 5.2 Domestic mobile traffic (minutes/subscription/month)	60 1,370 5.3 52 50 Yes Mixed C C C C A	39 2,035 5.4
Urban population (% of total) 57 GNI per capita, World Bank Atlas method (\$) 1,140 GDP growth, 2005–10 and 2010–15 (avg. annual %) 3.9 Adult literacy rate (% ages 15 and older) 46 Gross primary, secondary, and tertiary school enrollment (%) 46 Sector structure Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C Internet service C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 Telecommunications investment (% of revenue) 19.4 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 Mobile-cellular telephone subscriptions (per 100 people) 0.2 Households with a computer (%) 3.0 ^a Households with Internet access at home (%) 1.6 ^a 1.6 ^a 1.6 ^a Usage Int1. voice traffic, total (minutes/subscription/month)<	1,370 5.3 52 50 Yes Mixed C C C C A	2,035 5.4
GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.9 Adult literacy rate (% ages 15 and older) 46 Gross primary, secondary, and tertiary school enrollment (%) 46 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C Internet service C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 Telecommunications investment (% of revenue) 19.4 Sector performance A Access Fixed-broadband subscriptions (per 100 people) 2.0 Mobile-cellular telephone subscriptions (per 100 people) 0.2 40 Households with a computer (%) 3.0 ^a 3.0 ^a Households with a computer (%) 3.0 ^a 3.0 ^a Households with Internet access at home (%) 1.6 ^a 58.7 Individuals using the Internet (%) <td>5.3 52 50 Yes Mixed C C C C A</td> <td>5.4</td>	5.3 52 50 Yes Mixed C C C C A	5.4
Adult literacy rate (% ages 15 and older) 46 Gross primary, secondary, and tertiary school enrollment (%) 46 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C Internet service C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 Telecommunications investment (% of revenue) 19.4 Sector performance A Access Fixed-telephone subscriptions (per 100 people) 76.9 Fixed-broadband subscriptions (per 100 people) 0.2 40 Households with a computer (%) 3.0 ^a 40 ^a Households with Internet access at home (%) 1.6 ^a 58.7 Individuals using the Internet (%) 4.0 ^a 40 ^a Quality Population covered by at least a 3G mobile network (%)	52 50 Yes Mixed C C C A	
Gross primary, secondary, and tertiary school enrollment (%) 46 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C Internet service C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 1 Telecommunications revenue (% of GDP) 5.1 1 19.4 Sector performance A A 19.4 Mobile-cellular telephone subscriptions (per 100 people) 2.0 0 0 Mobile-cellular telephone subscriptions (per 100 people) 0.2 0.2 0 0.30a Households with a computer (%) 3.0a 3.0a 1.6a 1.6a Usage Int'l. voice traffic, total (minutes/subscription/month) 5.2 20 Domestic mobile traffic (minutes/subscription/month) 5.8.7 1.0a 3.0a Households with Internet (%) 4.0a	50 Yes Mixed C C C A	
Sector structure Sector structure Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C International gateway(s) C Mobile telephone service C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 Telecommunications revenue (% of Fevenue) 19.4 Sector performance Access Access Fixed-telephone subscriptions (per 100 people) 2.0 Mobile-cellular telephone subscriptions (per 100 people) 0.2 Households with a computer (%) 3.0 ^a Households with Internet access at home (%) 1.6 ^a Usage Int'l. voice traffic, total (minutes/subscription/month) 5.2 Domestic mobile traffic (minutes/subscription/month) 5.8.7 Individuals using the Internet (%) 4.0 ^a Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet	Yes Mixed C C C A	68
Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C Internet service C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 Telecommunications revenue (% of Fevenue) 19.4 Sector performance A Access Fixed-telephone subscriptions (per 100 people) 2.0 Mobile-cellular telephone subscriptions (per 100 people) 76.9 Fixed-broadband subscriptions (per 100 people) 0.2 Households with a computer (%) 3.0 ^a Households with Internet access at home (%) 1.6 ^a Usage Int'l. voice traffic, total (minutes/subscription/month) 58.7 Individuals using the Internet (%) 4.0 ^a Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) 1,939 </td <td>Mixed C C C A</td> <td></td>	Mixed C C C A	
Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C Internet service C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 Telecommunications investment (% of revenue) 19.4 Sector performance A Access Fixed-telephone subscriptions (per 100 people) 76.9 Fixed-telephone subscriptions (per 100 people) 0.2 Households with a computer (%) 3.0 ^a Households with a computer (%) 3.0 ^a Households with Internet access at home (%) 1.6 ^a Usage Int'. voice traffic, total (minutes/subscription/month) 5.2 Domestic mobile traffic (minutes/subscription/month) 58.7 Individuals using the Internet (%) 4.0 ^a Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) 1,939	Mixed C C C A	
Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C Internet service C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.1 Telecommunications investment (% of revenue) 19.4 Sector performance A Access Fixed-telephone subscriptions (per 100 people) 76.9 Fixed-telephone subscriptions (per 100 people) 0.2 Households with a computer (%) 3.0 ^a Households with a computer (%) 3.0 ^a Households with Internet access at home (%) 1.6 ^a Usage Int'l. voice traffic, total (minutes/subscription/month) 5.2 Domestic mobile traffic (minutes/subscription/month) 58.7 Individuals using the Internet (%) 4.0 ^a Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) 1,939	C C C A	
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Individuals using the Internet (%) 4.0a Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) 1,939		7.5 152.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) 1,939	 15.2ª	
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) 1,939	15.2-	20.0
International Internet bandwidth (bit/s per Internet user) 1,939		
	 1 /151	 10 272
A Constant Without	1,451	10,372
Affordability		
Mobile-cellular sub-basket (\$ a month) 16.4	15.0	6.9
Fixed-broadband sub-basket (\$ a month) 23.5	10.8	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	31.5	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 50.6	31.5	10.0
Trade		
ICT goods exports (% of total goods exports)		5.7
ICT goods imports (% of total goods imports) 0.9	0.8	7.6
ICT service exports (% of total service exports) 46.8	F C C	48.0
Applications	56.9	
Online service index (0-1, 1=highest presence) 0.09		0.26
Secure Internet servers (per million people) 1.9	56.9 0.05 2.7	7.4

Mauritius

Sub-Saharan Africa

Upper middle income

	epper n	induite	Uppor
	Counti	v data	Upper middle- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	1	1	2,594
Urban population (% of total)	41	40	64
GNI per capita, World Bank Atlas method (\$)	7,970	9,610	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.6	3.4	4.5
Adult literacy rate (% ages 15 and older)	89	91	
Gross primary, secondary, and tertiary school enrollment (%)	78	83	81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowe	ed) A	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.4	2.4	
Telecommunications investment (% of revenue)	55.5		18.8
Sector performance			
Access	21 E	20.2	17.0
Fixed-telephone subscriptions (per 100 people)	31.5	30.3	
Mobile-cellular telephone subscriptions (per 100 people)	96.8 7.6	140.6 15.7	
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	37.7	57.0	
Households with a computer (%)	29.0	60.0	
	2010		
Usage	16.6	9.0	2.3
Int'l. voice traffic, total (minutes/subscription/month)	119.2	9.0 108.9	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	28.3	50.1	
	2010	0011	02.11
Quality		93	69
Population covered by at least a 3G mobile network (%)	 9,723	33,896	
International Internet bandwidth (bit/s per Internet user)	3,123	55,650	20,030
Affordability			
Mobile-cellular sub-basket (\$ a month)	6.8	5.0	
Fixed-broadband sub-basket (\$ a month)	16.4	2.9	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		5.6	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.6	8.5	11.1
Trade			
ICT goods exports (% of total goods exports)	1.1	11.8	
ICT goods imports (% of total goods imports)	5.1	9.7	
ICT service exports (% of total service exports)	31.9	30.1	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.30	0.47	0.37
Secure Internet servers (per million people)	88.8	175.8	34.7

Mexico

Latin America & Caribbean

Upper middle income

	ppern		Upper middle-
	Countr		income group
	2010	2015	2015
Economic and social context			
Population (millions)	119	127	2,594
Urban population (% of total)	78	79	64
GNI per capita, World Bank Atlas method (\$)	8,840	9,710	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	1.4 93	2.7 95	4.5
Gross primary, secondary, and tertiary school enrollment (%)	75	78	 81
	10	10	
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)		С	
Mobile telephone service	C	C	
Internet service	С	C	
Foreign ownership (not allowed, restricted, allowed)	R	A No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	INU	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.9	2.5	2.1
Telecommunications investment (% of revenue)	19.7	15.0	18.8
Sector performance Access	16.0	15.9	17.3
Fixed-telephone subscriptions (per 100 people)	16.9 77.5	85.3	105.1
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	9.0	11.6	105.1
Households with a computer (%)	29.8	44.9	48.7
Households with Internet access at home (%)	22.2	39.2	52.2
Usage			0.0
Int'l. voice traffic, total (minutes/subscription/month)	 91.6	 114.8	2.3 173.1
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	31.1	57.4	52.1
	51.1	57.4	52.1
Quality			
Population covered by at least a 3G mobile network (%)		89	69
International Internet bandwidth (bit/s per Internet user)	7,039	20,855	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	17.4	8.1	8.5
Fixed-broadband sub-basket (\$ a month)	17.3	22.0	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	17.9	14.9	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	18.9	15.7	11.1
Trade			
ICT goods exports (% of total goods exports)	20.2	16.0	15.7
ICT goods imports (% of total goods imports)	19.2	16.3	14.4
ICT service exports (% of total service exports)			25.7
Applications	0.44	0.66	0.37
Online service index (0-1, 1=highest presence)			
Secure Internet servers (per million people)	19.7	39.2	34.7

Micronesia, Fed. Sts.

East Asia & Pacific Lower middle income Lower middleincome Country data group 2010 2015 2015 Economic and social context Population (millions) 0.10 0.10 2,927 Urban population (% of total) 22 22 39 2.870 3.200 2.035 GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) -0.6 -1.2 5.4 Adult literacy rate (% ages 15 and older) 68 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator No No Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) Μ Μ International gateway(s) Mobile telephone service Μ М Internet service Μ Μ Foreign ownership (not allowed, restricted, allowed) R Reg. treatment of VoIP (banned, closed, no framework, allowed) No А Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 8.2 6.5 3.5 Mobile-cellular telephone subscriptions (per 100 people) 26.6 30.3 90.5 10 31 19 Fixed-broadband subscriptions (per 100 people) Households with a computer (%) 19.3 ... 24.3 Households with Internet access at home (%) ... Usage 7.5 Int'l. voice traffic, total (minutes/subscription/month) 152.0 Domestic mobile traffic (minutes/subscription/month) 20.0ª Individuals using the Internet (%) 31.5ª 28.6 Ouality Population covered by at least a 3G mobile network (%) 15 1,930 9,117 10.372 International Internet bandwidth (bit/s per Internet user) Affordability Mobile-cellular sub-basket (\$ a month) 9.1 25.8 6.9 40.0 33.0 14.3 Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 31.5 5.8 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 10.0 ... Trade ICT goods exports (% of total goods exports) 5.7 1.3 1.9 7.6 ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) 11.8 9.6 48.0 Applications 019 0.26 Online service index (0-1, 1=highest presence) 0.13

146

Secure Internet servers (per million people)

38.6

19.3

7.4

Moldova

Europe & Central Asia

Lower middle income

Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 69 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) C Mobile telephone service C Internet service C C Internet service C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.0 Telecommunications investment (% of revenue) 40.2 5 Sector performance Access Fixed-telephone subscriptions (per 100 people) 71.4 10 Fixed-broadband subscriptions (per 100 people) 7.6 1 Households with a computer (%) 37.0 4 Households with a computer (%) 37.0 4 Households with laternet access at home (%) 32.3° 4 Usage Int1. voice traffic (minutes/subscription/month) 20.7 1 1 Individuals using the Internet (%) 32.3° 4 4	ta group
Economic and social contextPopulation (millions)4Urban population (% of total)45GNI per capita, World Bank Atlas method (\$)1,820GDP growth, 2005-10 and 2010-15 (avg. annual %)2.9Adult literacy rate (% ages 15 and older)Gross primary, secondary, and tertiary school enrollment (%)69Sector structureSeparate telecommunications/ICT regulatorYesStatus of main fixed-line telephone operatorPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)CInternet serviceCInternet serviceCForeign ownership (not allowed, restricted, allowed)ANoSector efficiency and capacityTelecommunications investment (% of GDP)6.0Telecommunications investment (% of Ferenue)40.25Sector performanceAccess5Aixelelephone subscriptions (per 100 people)7.61Households with a computer (%)37.04Households with a computer (%)37.04Households with internet access at home (%)34.7ª4UsageInt'l. voice traffic, total (minutes/subscription/month)20.71Individuals using the Internet (%)32.3ª4QualityPopulation covered by at least a 3G mobile network (%)99International Internet bandwidth (bit/s per Internet user)81,450194,5AffordabilityMobile-cellular sub-basket (\$ a month)12.2Mobile-b'band, prepaid hands	Sloup
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GDP growth, 2005-10 and 2010-15 (avg. annual %) 2.9 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 69 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C Internet service C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.0 Telecommunications investment (% of revenue) 40.2 5 Sector performance Access S Mobile-cellular telephone subscriptions (per 100 people) 7.6 1 Households with a computer (%) 37.0 4 Households with Internet access at home (%) 34.7a 4 Usage Intividuals using the Internet (%) 32.3a 4 Usage Individuals using the Internet (%) 99 9	
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Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C C Internet service C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.0 Telecommunications investment (% of revenue) 40.2 5 Sector performance Access Fixed-telephone subscriptions (per 100 people) 71.4 10 Fixed-broadband subscriptions (per 100 people) 7.6 1 Households with a computer (%) 37.0 4 Households with a computer (%) 37.0 4 4 4 5 Usage Int'l. voice traffic, total (minutes/subscription/month) 20.7 1 1 Individuals using the Internet (%) 32.3ª 4 4 Usage Individuals using the Internet (%) 99 1 Individuals using the Internet (%) 32.3ª 4 4 </td <td>71 68</td>	71 68
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Level of competition (competition, partial comp., monopoly) International gateway(s) C Mobile telephone service C Internet service C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Elecommunications revenue (% of GDP) 6.0 Telecommunications revenue (% of GDP) 6.0 5 Sector performance Access 7.6 1 Fixed-telephone subscriptions (per 100 people) 7.6 1 Households with a computer (%) 37.0 4 Households with Internet access at home (%) 34.7a 4 Usage Int'l. voice traffic, total (minutes/subscription/month) 20.7 1 Domestic mobile traffic (minutes/subscription/month) 20.7 1 Individuals using the Internet (%) 32.3a 4 Quality 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,85 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 1 Mobile-broadband sub-basket (\$ a month) 12.2 1 1 </td <td>Yes</td>	Yes
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Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.0 Telecommunications investment (% of revenue) 40.2 5 Sector performance Access 5 Fixed-telephone subscriptions (per 100 people) 32.5 3 Mobile-cellular telephone subscriptions (per 100 people) 71.4 10 Fixed-broadband subscriptions (per 100 people) 7.6 1 Households with a computer (%) 37.0 4 Households with Internet access at home (%) 34.7ª 4 Usage Int'l. voice traffic, total (minutes/subscription/month) 20.7 1 Domestic mobile traffic (minutes/subscription/month) 115.5 12 Individuals using the Internet (%) 32.3ª 4 Quality 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,85 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 6 6 Fixed-broadband sub-basket (\$ a month) 12.2 6 6 6	No
Telecommunications revenue (% of GDP) 6.0 Telecommunications investment (% of revenue) 40.2 5 Sector performance Access Fixed-telephone subscriptions (per 100 people) 71.4 10 Fixed-broadband subscriptions (per 100 people) 7.6 1 Households with a computer (%) 37.0 4 Households with Internet access at home (%) 34.7a 4 Usage Int'l. voice traffic, total (minutes/subscription/month) 20.7 1 Domestic mobile traffic (minutes/subscription/month) 20.7 1 Individuals using the Internet (%) 32.3a 4 Quality 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,85 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 12.2 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 83.3 33.3 33.3	NU
Telecommunications investment (% of revenue) 40.2 5 Sector performance Access Fixed-telephone subscriptions (per 100 people) 32.5 3 Mobile-cellular telephone subscriptions (per 100 people) 71.4 10 Fixed-broadband subscriptions (per 100 people) 7.6 1 Households with a computer (%) 37.0 4 Households with Internet access at home (%) 34.7a 4 Usage Int'l. voice traffic, total (minutes/subscription/month) 20.7 1 Domestic mobile traffic (minutes/subscription/month) 20.7 1 Individuals using the Internet (%) 32.3a 4 Quality Population covered by at least a 3G mobile network (%) 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,85 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3 3.3	4.1
Access 32.5 3 Fixed-telephone subscriptions (per 100 people) 32.5 3 Mobile-cellular telephone subscriptions (per 100 people) 71.4 10 Fixed-broadband subscriptions (per 100 people) 76.6 1 Households with a computer (%) 37.0 4 Households with Internet access at home (%) 34.7° 4 Usage 1 115.5 12 Individuals using the Internet (%) 32.3° 4 Quality 99 115.5 12 Population covered by at least a 3G mobile network (%) 99 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,85 Affordability 12.6 1 1 Mobile-cellular sub-basket (\$ a month) 12.6 1 1 Fixed-broadband sub-basket (\$ a month) 12.2 1 1	4.1 52.0
Fixed-broadband subscriptions (per 100 people) 7.6 1 Households with a computer (%) 37.0 4 Households with a computer (%) 34.7a 4 Usage 1 1 Int'l. voice traffic, total (minutes/subscription/month) 20.7 1 Domestic mobile traffic (minutes/subscription/month) 115.5 12 Individuals using the Internet (%) 32.3a 4 Quality 32.3a 4 Population covered by at least a 3G mobile network (%) 99 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,85 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 Fixed-broadband sub-basket (\$ a month) 12.2 4	35.0 3.5 38.0 90.5
Households with a computer (%) 37.0 4 Households with Internet access at home (%) 34.7a 4 Usage Int'l. voice traffic, total (minutes/subscription/month) 20.7 1 Domestic mobile traffic (minutes/subscription/month) 115.5 12 Individuals using the Internet (%) 32.3a 4 Quality 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,8 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 12.2 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3 32.3 34	15.5 1.9
Usage 20.7 1 Domestic mobile traffic (minutes/subscription/month) 115.5 12 Individuals using the Internet (%) 32.3ª 4 Quality Population covered by at least a 3G mobile network (%) 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,8 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 Fixed-broadband sub-basket (\$ a month) 12.2 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3 3.3	46.4 ^a 19.3
Int'l. voice traffic, total (minutes/subscription/month) 20.7 1 Domestic mobile traffic (minutes/subscription/month) 115.5 12 Individuals using the Internet (%) 32.3° 4 Quality 32.3° 4 Population covered by at least a 3G mobile network (%) 99 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,8 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 Fixed-broadband sub-basket (\$ a month) 12.2 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3 12.2	19.0ª 24.3
Domestic mobile traffic (minutes/subscription/month) 115.5 12 Individuals using the Internet (%) 32.3° 4 Quality 32.3° 4 Population covered by at least a 3G mobile network (%) 99 International Internet bandwidth (bit/s per Internet user) 81,450 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 Fixed-broadband sub-basket (\$ a month) 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3	
Individuals using the Internet (%) 32.3° 4 Quality Population covered by at least a 3G mobile network (%) 99 International Internet bandwidth (bit/s per Internet user) 81,450 194,8 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 Fixed-broadband sub-basket (\$ a month) 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3	13.1 7.5
Population covered by at least a 3G mobile network (%) 99 International Internet bandwidth (bit/s per Internet user) 81,450 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 Fixed-broadband sub-basket (\$ a month) 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3	22.7 152.0 19.8ª 28.6
International Internet bandwidth (bit/s per Internet user) 81,450 194,8 Affordability Mobile-cellular sub-basket (\$ a month) 12.6 Fixed-broadband sub-basket (\$ a month) 12.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3	99
Mobile-cellular sub-basket (\$ a month)12.6Fixed-broadband sub-basket (\$ a month)12.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)8.3	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.3	6.9 6.9
	9.4 14.3
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 8.3	2.2 5.8
	4.3 10.0
Trade	0.0 5.7
Second Se	0.2 5.7 3.1 7.6
	3.1 7.6 25.4 48.0
Applications	
	0.53 0.26
Secure Internet servers (per million people) 13.5 6	61.6 7.4

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Monaco

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.04	0.04	1,187
Urban population (% of total)	100	100	81
GNI per capita, World Bank Atlas method (\$)	186,710		41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	10.3		1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Private	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	P M	P	
Mobile telephone service	M	M M	
Internet service Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	116.5	128.1	41.2
Mobile-cellular telephone subscriptions (per 100 people)	63.5	88.8	124.5
Fixed-broadband subscriptions (per 100 people)	37.5	47.5	31.0
Households with a computer (%)	69.6ª	74.9 ^a	83.2
Households with Internet access at home (%)	67.1ª	76.6ª	85.0
Usage	1110		
Int'l. voice traffic, total (minutes/subscription/month)	114.6 122.5	 137.7	 195.9
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	75.0	137.7 93.4ª	
Ouality			
Population covered by at least a 3G mobile network (%)	100	100	99
International Internet bandwidth (bit/s per Internet user)	47,044	64,287	134,761
Affordability		40.0	44.0
Mobile-cellular sub-basket (\$ a month)		40.0 55.3	14.2 25.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		12.2	10.4
Mobile-b'band, postpaid computer-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 57.1	43.3	14.4
Trade			
ICT goods exports (% of total goods exports)			9.5
ICT goods imports (% of total goods imports)			11.2
ICT service exports (% of total service exports)			32.0
Applications	0.14	0.22	0.67
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	2,442.7		0.67
	2,772.1	3,373.3	1,134.0

Mongolia

East Asia & Pacific

Lower middle income

			Lower middle-
	Count	ry data 2015	income group 2015
Economic and social context			
Population (millions)	3	3	2,927
Urban population (% of total)	68	72	39
GNI per capita, World Bank Atlas method (\$)	2,000	3,830	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	6.4	10.3	
Adult literacy rate (% ages 15 and older)	98	98	
Gross primary, secondary, and tertiary school enrollment (%)	89	86	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	Р		
Mobile telephone service	Р		
Internet service	C		
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.8		
Telecommunications investment (% of revenue)	19.1		
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	7.1	8.7	3.5
Mobile-cellular telephone subscriptions (per 100 people)	92.5		
Fixed-broadband subscriptions (per 100 people)	2.8		
Households with a computer (%)	22.3		
Households with Internet access at home (%)	7.7	24.5	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	4.5		7.5
Domestic mobile traffic (minutes/subscription/month)	121.6		152.0
Individuals using the Internet (%)	10.2	21.4	28.6
Quality			
Population covered by at least a 3G mobile network (%)	50	95	
International Internet bandwidth (bit/s per Internet user)	62,121	159,595	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	3.6	2.9	6.9
Fixed-broadband sub-basket (\$ a month)	8.5	6.6	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.3	5.6	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	8.8	5.1	10.0
Trade			
ICT goods exports (% of total goods exports)		0.1	5.7
ICT goods imports (% of total goods imports)		3.9	
ICT service exports (% of total service exports)	10.2	22.5	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.56	0.61	0.26
Secure Internet servers (per million people)	10.7	30.1	7.4

The Little Data Book on Information and Communication Technology 2016

Montenegro

Europe & Central Asia

Upper middle income

Europe & Central Asia	Obbei 1	induite i	licome
			Upper middle- income
		ry data	group
	2010	2015	2015
Economic and social context			
Population (millions)	0.62	0.62	2,594
Urban population (% of total)	63	64	64
GNI per capita, World Bank Atlas method (\$)	6,890	7,240	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.3 98	1.6 99	4.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%			 81
) 00		
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly))		
International gateway(s)	С		
Mobile telephone service	C	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allow	ved) A	A	
Sector officiancy and canacity			
Sector efficiency and capacity Telecommunications revenue (% of GDP)		5.5	2.1
Telecommunications investment (% of revenue)			18.8
			10.0
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	27.5		17.3
Mobile-cellular telephone subscriptions (per 100 people)	188.7	162.2	105.1
Fixed-broadband subscriptions (per 100 people)	10.4	18.1	15.4
Households with a computer (%)	38.0		
Households with Internet access at home (%)	35.94	61.1	52.2
lleage			
Usage Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month)		141.9	
Individuals using the Internet (%)	37.5		
0 ()			
Quality			
Population covered by at least a 3G mobile network (%)	72	97	69
International Internet bandwidth (bit/s per Internet user)	30,104	102,166	26,098
Affordability	10 5	0.7	0.5
Mobile-cellular sub-basket (\$ a month)	16.5 18.4	9.7 15.3	8.5 15.5
Fixed-broadband sub-basket (\$ a month)		13.2	7.7
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month Mobile-b'band, postpaid computer-based, 1 GB (\$ a month		7.2	11.1
)	1.2	11.1
Trade			
ICT goods exports (% of total goods exports)	0.3	0.6	15.7
ICT goods imports (% of total goods imports)	3.6	4.1	14.4
ICT service exports (% of total service exports)	8.0	9.1	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.31	0.53	0.37
Secure Internet servers (per million people)	25.8	72.3	34.7

Morocco

Middle East & North Africa

Lower middle income

	Country dat 2010 20:		income group 2015
Economic and social context			
Population (millions)	32	34	2,927
Urban population (% of total)	58	60	39
GNI per capita, World Bank Atlas method (\$)	2,950	3,040	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.9	3.8	5.4
Adult literacy rate (% ages 15 and older)	67	72	
Gross primary, secondary, and tertiary school enrollment (%)	65	72	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C C	C	
Mobile telephone service	C	C C	
Internet service Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		В	
	0	D	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.6	3.5	
Telecommunications investment (% of revenue)	17.0	19.9	
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	11.8	6.5	3.5
Mobile-cellular telephone subscriptions (per 100 people)	101.1	126.9	90.5
Fixed-broadband subscriptions (per 100 people)	1.6	3.4	
Households with a computer (%)	34.2	54.8	
Households with Internet access at home (%)	25.5	66.5	24.3
Usage	0.7	0.4	7.5
Int'l. voice traffic, total (minutes/subscription/month)	9.7 35.9	9.4 89.6	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	52.0	89.0 57.1	28.6
Quality Population covered by at least a 3G mobile network (%)	69	80	
International Internet bandwidth (bit/s per Internet user)	4,558	18,316	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	33.1	10.2	
Fixed-broadband sub-basket (\$ a month)	11.7	10.1	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	46.4	5.1	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.5	10.1	10.0
Trade		-	
ICT goods exports (% of total goods exports)	3.8	2.7	
ICT goods imports (% of total goods imports)	5.9	3.8	
ICT service exports (% of total service exports)	20.1	19.2	48.0
Applications	0.04	0.00	0.00
Online service index (0-1, 1=highest presence)	0.24	0.69 6.2	
Secure Internet servers (per million people)	3.0	0.2	1.4

Mozambique

Sub-Saharan Africa

Low income

	Country	Country data		Country data		in	Low- income group
	2010	2015	2015				
Economic and social context							
Population (millions)	24	28	638				
Urban population (% of total)	31	32	31				
GNI per capita, World Bank Atlas method (\$)	460	580	620				
GDP growth, 2005-10 and 2010-15 (avg. annual %)	7.3	7.1	5.4				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	51 61	59 59	 60				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	C	C					
Mobile telephone service Internet service	C C	C C					
Foreign ownership (not allowed, restricted, allowed)	R	A					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	5.6						
Telecommunications investment (% of revenue)	39.0						
Sector performance							
Access	0.4	0.3	0.9				
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	30.1	74.2	60.0				
Fixed-broadband subscriptions (per 100 people)	0.1	0.1	0.3				
Households with a computer (%)	4.9ª	6.1ª					
Households with Internet access at home (%)	2.4ª	13.2ª	7.1				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	0.8						
Domestic mobile traffic (minutes/subscription/month)	14.8 4.2	 9.0ª	48.9 9.5				
Individuals using the Internet (%)	4.2	9.04	9.0				
Quality Population covered by at least a 3G mobile network (%)		50	51				
International Internet bandwidth (bit/s per Internet user)	1,281	6,145	4,245				
Affordability							
Mobile-cellular sub-basket (\$ a month)	17.0	8.1	9.4				
Fixed-broadband sub-basket (\$ a month)	49.7	16.3	33.6				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	26.4 26.4	2.5 6.1	8.0 10.8				
Trade							
ICT goods exports (% of total goods exports)	0.1	0.0					
ICT goods imports (% of total goods imports)	1.8	4.0	3.4				
ICT service exports (% of total service exports)	19.7	6.3					
Applications	0.17	0.04					
Online service index (0-1, 1=highest presence)	0.17	0.31 2.2	0.11				
Secure Internet servers (per million people)	0.8	2.2	1.5				

Myanmar

East Asia & Pacific

Lower middle income

					Lowe		
	Country			Country data		incon	middle- income
	2010	2015	group 2015				
Economic and social context							
Population (millions)	52	54	2,927				
Urban population (% of total)	31	34	39				
GNI per capita, World Bank Atlas method (\$)		1,280	2,035				
GDP growth, 2005–10 and 2010–15 (avg. annual %)		8.0 93	5.4				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)		93	 68				
Sector structure Separate telecommunications/ICT regulator	No	No					
Status of main fixed-line telephone operator	Public	Public					
Level of competition (competition, partial comp., monopoly)	1 00110	1 40.10					
International gateway(s)	М	Μ					
Mobile telephone service	М	С					
Internet service	М	С					
Foreign ownership (not allowed, restricted, allowed)	Α	A					
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) C	No					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)							
Telecommunications investment (% of revenue)							
Sector performance							
Access							
Fixed-telephone subscriptions (per 100 people)	0.9	1.0	3.5				
Mobile-cellular telephone subscriptions (per 100 people)	1.1	76.7	90.5				
Fixed-broadband subscriptions (per 100 people)	0.0	0.3	1.9				
Households with a computer (%)	1.4ª 1.0ª	14.0ª 15.0ª					
Households with Internet access at home (%)	1.04	15.04	24.5				
Usage			7.5				
Int'l. voice traffic, total (minutes/subscription/month)			7.5 152.0				
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 0.3	 21.8ª					
individuals using the internet (%)	0.5	21.0	20.0				
Quality		70					
Population covered by at least a 3G mobile network (%)	 7 702	79	 10 272				
International Internet bandwidth (bit/s per Internet user)	7,702	3,676	10,372				
Affordability							
Mobile-cellular sub-basket (\$ a month)	12.8	1.9	6.9				
Fixed-broadband sub-basket (\$ a month)	28.5	18.2	14.3				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		2.4	5.8				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		7.3	10.0				
Trade	~ ~						
ICT goods exports (% of total goods exports)	0.0		5.7				
ICT goods imports (% of total goods imports)	1.7		7.6				
ICT service exports (% of total service exports)	19.8	11.1	48.0				
Applications							
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.08 0.1	0.02 0.7	0.26 7.4				

Namibia

Sub-Saharan Africa

Upper middle income

Sub-Saliarali Allica	opper initiale incom					
	Countr	Country data			U mi Country data	
	2010	2015	group 2015			
Formamic and assist contant	2010	2020	2020			
Economic and social context Population (millions)	2	2	2,594			
Urban population (% of total)	42	47	2,394			
GNI per capita, World Bank Atlas method (\$)	4,360	5,210	8,186			
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.1	5.6	4.5			
Adult literacy rate (% ages 15 and older)	89	91				
Gross primary, secondary, and tertiary school enrollment (%)			81			
Sector structure						
Separate telecommunications/ICT regulator	Yes	Yes				
Status of main fixed-line telephone operator	Public	Public				
Level of competition (competition, partial comp., monopoly)						
International gateway(s)	С	С				
Mobile telephone service	С	С				
Internet service	С	С				
Foreign ownership (not allowed, restricted, allowed)	R	R				
Reg. treatment of VoIP (banned, closed, no framework, allow	ed) No	A				
Sector efficiency and capacity						
Telecommunications revenue (% of GDP)	3.2	2.7	2.1			
Telecommunications investment (% of revenue)	12.7	11.8	18.8			
Sector performance						
Access	7.0	7.0	47.0			
Fixed-telephone subscriptions (per 100 people)	7.2	7.6	17.3			
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	89.5 0.4	102.1 1.7	105.1 15.4			
Households with a computer (%)	11.5	17.7				
Households with Internet access at home (%)	7.0ª					
Usage Int'l. voice traffic, total (minutes/subscription/month)	6.7	1.6	2.3			
Domestic mobile traffic (minutes/subscription/month)	96.2	103.8	173.1			
Individuals using the Internet (%)	11.6	22.3	52.1			
Quality						
Population covered by at least a 3G mobile network (%)	13	37	69			
International Internet bandwidth (bit/s per Internet user)	1,701	22,546	26,098			
Affordability						
Mobile-cellular sub-basket (\$ a month)	17.0	4.3	8.5			
Fixed-broadband sub-basket (\$ a month)	118.7	27.4	15.5			
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	30.5	10.1	7.7			
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	29.1	17.2	11.1			
Trade						
ICT goods exports (% of total goods exports)	0.5	0.9	15.7			
ICT goods imports (% of total goods imports)	3.6	3.0	14.4			
ICT service exports (% of total service exports)	11.8	46.3	25.7			
Applications						
Online service index (0-1, 1=highest presence)	0.07	0.32	0.37			
Secure Internet servers (per million people)	14.6	28.5	34.7			

Nauru

East Asia & Pacific

High income

	Country data		High- income group
-	2010	2015	2015
Economic and social context			
Population (millions)	0.01	0.01	1,187
Urban population (% of total)	100	100	81
GNI per capita, World Bank Atlas method (\$)			41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)			1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 56		 95
Sector structure	Ne	Na	
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	No Public	No	
Level of competition (competition, partial comp., monopoly)	FUDIIC		
International gateway(s)		С	
Mobile telephone service		c	
Internet service		C	
Foreign ownership (not allowed, restricted, allowed)		R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access	0.0	0.0	41.2
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	61.8	0.0	124.5
Fixed-broadband subscriptions (per 100 people)	9.5		31.0
Households with a computer (%)			83.2
Households with Internet access at home (%)	28.0		85.0
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)	54.0		81.0
Quality Population covered by at least a 3G mobile network (%)	98	98ª	99
International Internet bandwidth (bit/s per Internet user)	2,402		134,761
	, -		- , -
Affordability		19.3	14.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		19.5 60.1	14.2 25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade ICT goods exports (% of total goods exports)			9.5
ICT goods imports (% of total goods imports)			11.2
ICT service exports (% of total service exports)			32.0
			02.0
Applications	0.01		0.07
Online service index (0-1, 1=highest presence)	0.01		0.67 1.194.6
Secure Internet servers (per million people)			1,134.0

The Little Data Book on Information and Communication Technology 2016

Nepal

South Asia

Low income

	Country	Country data		Country data		in	Low- income group
	2010	2015	2015				
Economic and social context							
Population (millions)	27	29	638				
Urban population (% of total)	17	19	31				
GNI per capita, World Bank Atlas method (\$)	540	730	620				
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.5 60	4.4 65	5.4				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	75	65 74	 60				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	С	P P					
Mobile telephone service Internet service	C C	P C					
Foreign ownership (not allowed, restricted, allowed)	R	R					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	C	No					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)		4.5					
Telecommunications investment (% of revenue)							
Sector performance							
Access Fixed-telephone subscriptions (per 100 people)	3.1	3.0	0.9				
Mobile-cellular telephone subscriptions (per 100 people)	34.3	96.7	60.0				
Fixed-broadband subscriptions (per 100 people)	0.2	1.1	0.3				
Households with a computer (%)	4.2 ^a	8.9ª	4.8				
Households with Internet access at home (%)	2.1ª	6.3ª	7.1				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)			 48.9				
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 7.9	 17.6ª					
	1.5	17.0	5.5				
Quality Population covered by at least a 3G mobile network (%)	20		51				
International Internet bandwidth (bit/s per Internet user)	1,879	2,700	4,245				
Affordability							
Mobile-cellular sub-basket (\$ a month)	2.8	2.4	9.4				
Fixed-broadband sub-basket (\$ a month)	23.3	6.5	33.6				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.4 	6.1 7.7	8.0 10.8				
Trade							
ICT goods exports (% of total goods exports)	0.4	0.0					
ICT goods imports (% of total goods imports)	6.7	4.7	3.4				
ICT service exports (% of total service exports)	29.7	36.9					
Applications							
Online service index (0-1, 1=highest presence)	0.17	0.16	0.11				
Secure Internet servers (per million people)	1.7	3.8	1.5				

Netherlands

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	17	17	1,187
Urban population (% of total)	87	90	81
GNI per capita, World Bank Atlas method (\$)	53,530	,	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.1	0.4	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 101		 95
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	С	
Mobile telephone service	C C	C C	
Internet service Foreign ownership (not allowed, restricted, allowed)	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.0	1.9	2.5
Telecommunications investment (% of revenue)	14.8		18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people)	43.5	41.3	41.2
Mobile-cellular telephone subscriptions (per 100 people)	115.4		124.5
Fixed-broadband subscriptions (per 100 people)	38.1	41.7	31.0
Households with a computer (%)	92.0	96.2	83.2
Households with Internet access at home (%)	90.9	96.0	85.0
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	97.9		195.9
Individuals using the Internet (%)	90.7	93.1	81.0
Quality			
Population covered by at least a 3G mobile network (%)	99 154 212		99 124 761
International Internet bandwidth (bit/s per Internet user)	154,312	242,326	134,701
Affordability	22.0	00.0	110
Mobile-cellular sub-basket (\$ a month)	33.2 32.9		14.2 25.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	38.6		10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	38.6		14.4
Trade			
ICT goods exports (% of total goods exports)	12.5	10.8	9.5
ICT goods imports (% of total goods imports)	14.5		
ICT service exports (% of total service exports)	34.3	34.5	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.68		0.67
Secure Internet servers (per million people)	2,276.7	2,828.1	1,194.6

New Caledonia

East Asia & Pacific

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.25	0.27	1,187
Urban population (% of total)	67	70	81
GNI per capita, World Bank Atlas method (\$)			41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)		 97	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access	00.0	25.0	44.0
Fixed-telephone subscriptions (per 100 people)	29.3 89.6	35.0 93.5	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	15.5	23.9	31.0
Households with a computer (%)	56.3ª	20.0	83.2
Households with Internet access at home (%)	37.7		85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)	42.0ª	74.0ª	81.0
Quality Population covered by at least a 3G mobile network (%)	0		99
International Internet bandwidth (bit/s per Internet user)	17,395		134,761
A 66			
Affordability Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade			
ICT goods exports (% of total goods exports)	0.1	0.2	9.5
ICT goods imports (% of total goods imports)	3.3	3.4	11.2
ICT service exports (% of total service exports)	19.2	11.5	32.0
Applications			0.67
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 100.0	 476.2	0.67
	100.0	410.2	1,134.0

New Zealand

East Asia & Pacific

High income

Z010 Z015 Z015 Economic and social context Population (millions) 4 5 1,187 Urban population (% of total) 86 86 81 86 GNI per capita, World Bank Atlas method (\$) 29,340 40,080 41,306 5 1,87 Adult literacy rate (% ages 15 and older)		Count	Country data		Country data i		i Country data	
Population (millions) 4 5 1,187 Urban population (% of total) 86 86 81 GNI per capita, World Bank Atlas method (\$) 29,340 40,080 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 0.8 2.6 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 108 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Private Private Private Private Level of competition (competition, partial comp., monopoly) Internet service C C C Internet service C C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framwork, allowed) A A Sector performance Access Fixed-telephone subscriptions (per 100 people) 107.8 121.8<		2010	2015	group 2015				
Sector efficiency and capacity Sector performance Access C C Sector performance Access Access Fixed-telephone subscriptions (per 100 people) 107.8 12.8 Sector structure Sector structure Sector structure Separate telecommunications/ICT regulator Yes Yes Sector structure Sector structure Private Private Evel of competition, partial comp., monopoly International gateway(s) C C International gateway(s) C C C C Sector efficiency and capacity Telecommunications reverse C C C Fixed-telephone subscriptions (per 100 people) 43.0 40.2 41.2 Mobile-cellular telephone subscriptions (per 100 people) 107.8 12.1.8 124.5 Fixed-telephone subscriptions (per 100 people) 43.0 40.2 41.2 Mobile-cellular telephone subscription/month) Fixed-telephone subscriptions (per 100 people) 43.0 40.2 41.2 Mobile-ce	Economic and social context							
GNI per capita, World Bark Atlas method (\$) 29,340 40,080 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 0.8 2.6 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 108 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Separate telecommunications/ICT regulator Yes Yes Yes Yes Sector structure C C C International gateway(s) C C C Mobile telephone service C C C C International gateway(s) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No Sector performance Access Fixed-trelephone subscriptions (per 100 people) 107.8 121.8 121.8 Fixed-tradehad subscriptions (per 100 people) 25.0 31.5 31.0 40.2 41.2	Population (millions)	4	5	1,187				
GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.8 2.6 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 108 105 95 Sector structure Sector structure Private Private Private Level of competition (competition, partial comp., monopoly) C C C International gateway(s) Mobile telephone service C C C Mobile telephone service C C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No Sector efficiency and capacity Telecommunications investment (% of revenue) 31.3 32.7 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 107.8 12.18 12.4 Households with a computer (%) 70.5* 82.3* 83.2 Households with internet access at home (%) 76.8* 82.8* 85.0 Usage Intra torefi	Urban population (% of total)	86	86	81				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 108 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Internet service C	GNI per capita, World Bank Atlas method (\$)	29,340	40,080	41,366				
Gross primary, secondary, and tertiary school enrollment (%) 108 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Private Private Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Mobile telephone service C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No No Sector efficiency and capacity Ilecommunications revenue (% of GDP) 2.4 2.1 2.5 Telecommunications revenue (% of GDP) 2.4 2.1 2.5 102 Sector performance Access Fixed-telephone subscriptions (per 100 people) 107.8 121.8 124.5 Fixed-telephone subscriptions (per 100 people) 43.0 40.2 41.2 Mobile-cellular telephone subscriptions (per 100 people) 107.8 28.a 85.0 Usage Int'1. voice traffic, total (minutes/subscription/month) Int		0.8	2.6	1.5				
Sector structure Yes Yes Yes Separate telecommunications/ICT regulator Private Private Private Level of competition (competition, partial comp., monopoly) Internets revice C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.4 2.1 2.5 Telecommunications investment (% of revenue) 31.3 32.7 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 107.8 121.8 124.5 Fixed-telephone subscriptions (per 100 people) 107.8 121.8 124.5 Fixed-telephone subscriptions (per 100 people) 25.0 31.5 31.0 Households with Internet access at home (%) 76.8* 82.8* 85.0 Usage Int't. voice traffic, total (minutes/subscription/month) Int't. voice traffic, total (minutes/subscription/month)								
Separate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorPrivatePrivateLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityImage: Communications revenue (% of GDP)2.42.12.5Telecommunications revenue (% of GDP)2.42.12.5Telecommunications investment (% of revenue)31.332.718.8Sector performanceAAAAccessFixed-telephone subscriptions (per 100 people)107.8121.8124.5Fixed-broadband subscriptions (per 100 people)25.031.531.010.0Households with a computer (%)79.5*82.3*83.283.2Households with Internet access at home (%)76.8*88.6*195.9Individuals using the Internet (%)80.5*88.2*81.0QualityPopulation covered by at least a 3G mobile network (%)979899International Internet bandwidth (bit/s per Internet user)34.143108,506134,761AffordabilityMobile-cellular sub-basket (\$ a month)47.213.214.2Mobile-cellular sub-basket (\$ a month)47.213.214.4Mobile-cel	Gross primary, secondary, and tertiary school enrollment (%)	108	105	95				
Status of main fixed-line telephone operatorPrivatePrivateLevel of competition (competition, partial comp., monopoly)CCInternational gateway(s)CCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacity2.42.12.5Telecommunications revenue (% of GDP)2.42.12.5Telecommunications investment (% of revenue)31.332.718.8Sector performanceAA2.42.1Mobile-cellular telephone subscriptions (per 100 people)107.8121.8124.5Fixed-broadband subscriptions (per 100 people)107.8121.8124.5Households with a computer (%)79.5ª82.3ª83.2Households with Internet access at home (%)76.8ª82.8ª85.0UsageInternational Internet (%)80.5ª88.2ª81.0QualityPopulation covered by at least a 3G mobile network (%)979899International Internet bandwidth (bit/s per Internet user)34.143108.506134.761AffordabilityMobile-cbluad sub-basket (\$ a month)47.213.210.4Mobile-cb'band, prepaid handset-based, 500 MB (\$ a month)47.213.210.4Mobile-cb'band, prepaid handset-based, 500 MB (\$ a month) <td></td> <td></td> <td></td> <td></td>								
Level of competition (competition, partial comp., monopoly) International gateway(s)CCCInternational gateway(s)CCCMobile telephone serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityTelecommunications revenue (% of GDP)2.42.12.5Telecommunications revenue (% of revenue)31.332.718.8Sector performanceAAAAccessFixed-telephone subscriptions (per 100 people)107.8121.8124.5Fixed-telephone subscriptions (per 100 people)107.8121.8124.5Households with a computer (%)79.5°82.3°83.2Households with a computer (%)79.5°82.8°85.0UsageInt'. voice traffic, total (minutes/subscription/month)Individuals using the Internet (%)80.5°88.2°81.0QualityPopulation covered by at least a 3G mobile network (%)979899International Internet bandwidth (bit/s per Internet user)34,143108,506134,761AffordabilityMobile-cellular sub-basket (\$ a month)47.213.214.2Fixed-broadband sub-basket (\$ a month)40.521.614.4TradeIC12.99.515.313.032.0Applications8.36.911.212.99.5ICT								
International gateway(s)CCCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityImage: treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityImage: treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityImage: treatment of VoIP (banned, closed, no framework, allowed)ANoSector performanceAccessFixed-telephone subscriptions (per 100 people)107.8121.8124.5Fixed-telephone subscriptions (per 100 people)107.8121.8124.531.0Households with a computer (%)79.5°82.3°83.2Households with internet access at home (%)76.8°82.8°85.0UsageInt'. voice traffic, total (minutes/subscription/month)Individuals using the Internet (%)80.5°88.2°81.0QualityPopulation covered by at least a 3G mobile network (%)979899International Internet bandwidth (bit/s per Internet user)34,143108,506134,761AffordabilityMobile-cellular sub-basket (\$ a month)40.521.614.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)40.521.614.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)40.521.6<		Private	Private					
Mobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityTelecommunications revenue (% of GDP)2.42.12.5Telecommunications investment (% of revenue)31.332.718.8Sector performanceAccessFixed-broadband subscriptions (per 100 people)107.8121.8124.5Fixed-broadband subscriptions (per 100 people)107.8121.8124.5Fixed-broadband subscriptions (per 100 people)25.031.531.0Households with a computer (%)79.5°82.3°83.2Households with nermet access at home (%)76.8°82.8°85.0UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)78.686.6195.9Individuals using the Internet (%)80.5°88.2°81.0QualityPopulation covered by at least a 3G mobile network (%)979899International Internet bandwidth (bit/s per Internet user)34,143108,506134,761AffordabilityMobile-cellular sub-basket (\$ a month)41.213.210.4Mobile-b'band, prepaid handset-based, 500 MB (\$		0	0					
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Fixed-broadband sub-basket (\$ a month) 36.1 45.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 24.3 13.2 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 24.3 13.2 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 40.5 21.6 14.4 Trade ICT goods exports (% of total goods exports) 1.2 0.9 9.5 ICT goods imports (% of total goods imports) 8.3 6.9 11.2 ICT service exports (% of total service exports) 15.3 13.0 32.0 Applications Online service index (0-1, 1=highest presence) 0.64 0.84 0.67	•	47.0	40.0	110				
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ICT goods imports (% of total goods imports) 8.3 6.9 11.2 ICT service exports (% of total service exports) 15.3 13.0 32.0 Applications 0.64 0.84 0.67		4.0	0.0	0.5				
ICT service exports (% of total service exports) 15.3 13.0 32.0 Applications 0.64 0.84 0.67								
Applications Online service index (0-1, 1=highest presence) 0.64 0.84 0.67								
Online service index (0-1, 1=highest presence) 0.64 0.84 0.67	ICT SETVICE EXPORTS (% OF LOCAL SETVICE EXPORTS)	15.3	13.0	32.0				
Secure Internet servers (per million people) 1,495.4 1,298.6 1,194.6								
	Secure Internet servers (per million people)	1,495.4	1,298.6	1,194.6				

Nicaragua

Latin America & Caribbean

Lower middle income

	Countr	eteb v	Lower middle- income	
	2010	2015	group 2015	
	2010	2013	2013	
Economic and social context Population (millions)	6	6	2,927	
Urban population (% of total)	57	59	39	
GNI per capita, World Bank Atlas method (\$)	1,480	1,940	2,035	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.3	5.1	5.4	
Adult literacy rate (% ages 15 and older)	78	82		
Gross primary, secondary, and tertiary school enrollment (%)			68	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Private	Private		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	М	М		
Mobile telephone service	С	С		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	R	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)				
Telecommunications investment (% of revenue)				
Sector performance				
Access	4.4	5.7	3.5	
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	68.1	116.1	90.5	
Fixed-broadband subscriptions (per 100 people)	1.3	1.9	1.9	
Households with a computer (%)	8.2ª	11.84		
Households with Internet access at home (%)	3.8ª	14.04		
Usage				
Int'l. voice traffic, total (minutes/subscription/month)			7.5	
Domestic mobile traffic (minutes/subscription/month)			152.0	
Individuals using the Internet (%)	10.0ª	19.74	28.6	
Quality				
Population covered by at least a 3G mobile network (%)		754	·	
International Internet bandwidth (bit/s per Internet user)	8,588	21,090	10,372	
Affordability				
Mobile-cellular sub-basket (\$ a month)	16.9	27.0	6.9	
Fixed-broadband sub-basket (\$ a month)	34.4	24.0	14.3	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	17.0	11.0	5.8	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.8	12.0	10.0	
Trade				
ICT goods exports (% of total goods exports)	0.1	0.1	5.7	
ICT goods imports (% of total goods imports)	4.8	5.2	7.6	
ICT service exports (% of total service exports)	13.3	11.7	48.0	
Applications				
Applications Online service index (0-1, 1=highest presence)	0.25	0.09	0.26	
Secure Internet servers (per million people)	7.8	14.3	7.4	
	1.0	11.0		

Niger

Sub-Saharan Africa

Low income

	Country data		Low- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	16	20	638
Urban population (% of total)	18	19	31
GNI per capita, World Bank Atlas method (\$)	360	390	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.0	6.5	5.4
Adult literacy rate (% ages 15 and older)	15	19	
Gross primary, secondary, and tertiary school enrollment (%)	33		60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)		 C	
Mobile telephone service Internet service	C M	M	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		B	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.6		
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.5	0.6	0.9
Mobile-cellular telephone subscriptions (per 100 people)	23.1	46.5	60.0 0.3
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.0 1.2ª	0.1 2.7ª	
Households with Internet access at home (%)	0.6 ^a	2.7° 2.6ª	
	0.0	2.0	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
	18,471.9 0.8ª	 2.2ª	48.9
Individuals using the Internet (%)	0.0"	2.20	9.5
Quality			
Population covered by at least a 3G mobile network (%)			51
International Internet bandwidth (bit/s per Internet user)	1,440	2,688	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.6	9.5	9.4
Fixed-broadband sub-basket (\$ a month)	59.6	50.3	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	29.4	8.0	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		8.5	10.8
Trade			
ICT goods exports (% of total goods exports)	0.3	0.4	
ICT goods imports (% of total goods imports)	1.9	2.9	3.4
ICT service exports (% of total service exports)	5.4	49.2	
Applications			
Online service index (0-1, 1=highest presence)	0.04	0.13	0.11
Secure Internet servers (per million people)	0.2	0.3	1.5

Nigeria

Sub-Saharan Africa

Lower middle income

-	Country data		income group	
	2010	2015	2015	
Economic and social context				
Population (millions)	159	182	2,927	
Urban population (% of total)	43	48	39	
GNI per capita, World Bank Atlas method (\$)	1,460	2,820	2,035	
GDP growth, 2005-10 and 2010-15 (avg. annual %)	7.0	4.9	5.4	
Adult literacy rate (% ages 15 and older)	51	60		
Gross primary, secondary, and tertiary school enrollment (%)			68	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Mixed	Private		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	С	С		
Mobile telephone service	C	C		
Internet service	C	C		
Foreign ownership (not allowed, restricted, allowed)	Ā	Ā		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A		
Sector efficiency and capacity	1.0			
Telecommunications revenue (% of GDP)	1.8			
Telecommunications investment (% of revenue)	22.9			
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	0.7	0.1	3.5	
Mobile-cellular telephone subscriptions (per 100 people)	54.7	82.2	90.5	
Fixed-broadband subscriptions (per 100 people)	0.1	0.0	1.9	
Households with a computer (%)	7.6	9.8		
Households with Internet access at home (%)	6.1	11.44	24.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	4.6		7.5	
Domestic mobile traffic (minutes/subscription/month)	60.0	85.7	152.0	
Individuals using the Internet (%)	24.0ª	47.44		
-				
Quality		07/		
Population covered by at least a 3G mobile network (%)		674		
International Internet bandwidth (bit/s per Internet user)	2,348	2,986	10,372	
Affordability				
Mobile-cellular sub-basket (\$ a month)	15.4	5.3	6.9	
Fixed-broadband sub-basket (\$ a month)	53.1	32.7	14.3	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.8	10.9	5.8	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	19.1	18.2	10.0	
Trade				
ICT goods exports (% of total goods exports)	0.0	0.0	5.7	
ICT goods imports (% of total goods imports)	6.6	3.9	7.6	
	2.1	7.7	48.0	
ICT service exports (% of total service exports)				
ICT service exports (% of total service exports)				
	0.10	0.31	0.26	

Northern Mariana Islands

East Asia & Pacific

High income

	Countr	'y data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.05	0.06	1,187
Urban population (% of total)	89	89	81
GNI per capita, World Bank Atlas method (\$)			41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)			1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	47.3	39.9	41.2
Mobile-cellular telephone subscriptions (per 100 people)			124.5
Fixed-broadband subscriptions (per 100 people)			31.0
Households with a computer (%)			83.2
Households with Internet access at home (%)			85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)			81.0
Quality Population covered by at least a 3G mobile network (%)			99
International Internet bandwidth (bit/s per Internet user)			134.761
			154,701
Affordability Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade			
ICT goods exports (% of total goods exports)			9.5
ICT goods imports (% of total goods imports)			11.2
ICT service exports (% of total service exports)			32.0
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	92.8	54.5	1,194.6

Norway

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	5 79 88,430	· ·	1,187 81 41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	0.8 98	1.8 98	1.5 95
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Mixed	Yes Mixed	
International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed)	C C C A	C C C A No	
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	1.3 24.3	1.0	2.5 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	33.7 114.5 35.2 90.9 89.8		41.2 124.5 31.0 83.2 85.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 170.4 93.4	 179.3 96.8	 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	90 109,459	99 220,937	99 134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	17.1 49.1 68.6 34.2	18.1 40.8 6.1 16.0	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	1.4 7.5 36.4	0.9 6.9 31.9	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.74 1,651.2	0.76 2,030.4	0.67 1,194.6

Oman

Middle East & North Africa

High income

group201020152015201020152015201020152015Population (millions)341,187Urban population (% of total)757883GNI per capita, World Bank Atlas method (\$)18,77016,92041,366GDP growth, 2005-10 and 2010-15 (avg. annual %)6.03.61.5Adult literacy rate (% ages 15 and older)8794.Gross primary, secondary, and tertiary school enrollment (%)7795Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCPInternet serviceCForeign ownership (not allowed, restricted, allowed)AAASector efficiency and capacityTelecommunications revenue (% of GDP)2.82.62.5Telecommunications revenue (% of revenue)27.227.218.6Sector performanceAccessPixed-telephone subscriptions (per 100 people)10.110.541.2Households with a computer (%)54.387.5°83.2Households with internet access at home (%)35.584.0°85.0UsageInt1. voice traffic, total (minutes/subscription/month)17.2<		Countr	v data	High- income
Population (millions)341,185Urban population (% of total)757883GNI per capita, World Bank Atlas method (\$)18,77016,92041,366GDP growth, 2005-10 and 2010-15 (avg. annual %)6.03.61.5Adult literacy rate (% ages 15 and older)8794.Gross primary, secondary, and tertiary school enrollment (%)7795Sector structureSector structureSector structureSeparate telecommunications/ICT regulatorYesYesYesInternational gateway(s)CCCPInternational gateway(s)CCCPInternet serviceCCPInternet serviceCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacity10.110.541.2Telecommunications revenue (% of GDP)2.82.62.5Telecommunications investment (% of revenue)27.227.218.6Sector performanceAAAAccessIntil telephone subscriptions (per 100 people)10.110.541.2Households with a computer (%)54.387.5*83.243.0*Households with Internet access at home (%)35.584.0*85.0UsageIntil telephone subscription/month)17.216.7.Domestic mobile traffic (minutes/subscription/month) </th <th></th> <th></th> <th>-</th> <th>group 2015</th>			-	group 2015
Urban population (% of total)757881GNI per capita, World Bank Atlas method (\$)18,77016,92041,366GDP growth, 2005–10 and 2010–15 (avg. annual %)6.03.61.5Adult literacy rate (% ages 15 and older)8794.Gross primary, secondary, and tertiary school enrollment (%)77.95Sector structureSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorMixedMixedMixedLevel of competition (competition, partial comp., monopoly)CCCInternet serviceCPInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)NoAASector performanceAccess10.110.541.26AccessFixed-telephone subscriptions (per 100 people)10.110.541.26Households with a computer (%)54.387.5ª83.2Households with a computer (%)54.387.5ª83.2Individuals using the Internet (%)35.584.0ª85.0UsageIntrinsitic (minutes/subscription/month)17.216.716.7Domestic mobile traffic (total (minutes/subscription/month)17.216.716.9Domestic mobile traffic (minutes/subscription/month)81.787.9195.5Individuals using the Internet (%)35.874.2ª81.0<	Economic and social context			
GNI per capita, World Bank Atlas method (\$)18,77016,92041,366GDP growth, 2005-10 and 2010-15 (avg. annual %)6.03.61.5Adult literacy rate (% ages 15 and older)8794.Gross primary, secondary, and tertiary school enrollment (%)7795Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)CCMobile telephone serviceCPInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector performanceAccessFixed-broadband subscriptions (per 100 people)10.110.541.2Mobile-cellular telephone subscriptions (per 100 people)164.3159.9124.5Fixed-broadband subscriptions (per 100 people)164.387.5*83.2Households with a computer (%)54.387.5*83.2Households with Internet access at home (%)35.584.0*85.0UsageInt1. voice traffic, (total (minutes/subscription/month)17.216.7.Domestic mobile traffic (minutes/subscription/month)81.787.9195.5Individuals using the Internet (%)35.874.2*81.0Ouseholds with Internet bandwidth (bit/s per Internet user)5,58259,784134.761<	Population (millions)	3	4	1,187
GDP growth, 2005-10 and 2010-15 (avg. annual %)6.03.61.5Adult literacy rate (% ages 15 and older)879494Gross primary, secondary, and tertiary school enrollment (%)7792Sector structureSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorMixedMixedMixedLevel of competition (competition, partial comp., monopoly)CCCInternational gateway(s)CCCPMobile telephone serviceCPInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityTelecommunications investment (% of revenue)27.227.218.6Sector performanceAccessFixed-telephone subscriptions (per 100 people)10.110.541.2Households with a computer (%)54.387.5°83.2Households with a computer (%)35.584.0°85.0UsageInt'l. voice traffic, total (minutes/subscription/month)17.216.716.7OurietySiss74.2°81.081.085.095.095.095.0164.3159.9195.5Industoids with Internet access at home (%)35.584.0°85.095.095.010.110.71.6.7Domestic mobile traffic, (minu	Urban population (% of total)	75	78	81
Adult literacy rate (% ages 15 and older)879494Gross primary, secondary, and tertiary school enrollment (%)7795Sector structureSeparate telecommunications/ICT regulatorYesYesYesSeparate telecommunications/ICT regulatorYesYesYesLevel of competition (competition, partial comp., monopoly)CCCInternational gateway(s)CCCPInternet serviceCPCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityTelecommunications revenue (% of GDP)2.82.62.5Fixed-telephone subscriptions (per 100 people)10.110.541.2Mobile -cellular telephone subscriptions (per 100 people)164.3159.9124.5Fixed-broadband subscriptions (per 100 people)164.3159.9124.5Fixed-broadband subscriptions (per 100 people)164.385.584.0ªHouseholds with a computer (%)54.387.5ª83.2Households with Internet access at home (%)35.584.0ª85.6UsageInt'. voice traffic, total (minutes/subscription/month)17.216.7.1Domestic mobile traffic (minutes/subscription/month)81.787.9195.5Individuals using the Internet (%)35.874.2ª81.6QualityPopulation covered by at least a 3G mobile network (%)<		,	,	41,366
Gross primary, secondary, and tertiary school enrollment (%) 77 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Mixed Mixed Level of competition (competition, partial comp., monopoly) C C P International gateway(s) C C P Internet service C P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.8 2.6 2.5 Telecommunications investment (% of revenue) 27.2 27.2 18.6 Sector performance A A A Access Fixed-telephone subscriptions (per 100 people) 10.1 10.5 41.2 Mobile-cellular telephone subscriptions (per 100 people) 2.1 5.6 31.0 Households with a computer (%) 54.3 87.5 ^a 83.2 Households with Internet access at home (%)				1.5
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Access Fixed-telephone subscriptions (per 100 people) 10.1 10.5 41.2 Mobile-cellular telephone subscriptions (per 100 people) 164.3 159.9 124.5 Fixed-broadband subscriptions (per 100 people) 2.1 5.6 31.0 Households with a computer (%) 54.3 87.5ª 83.2 Households with Internet access at home (%) 35.5 84.0ª 85.5 Usage Int1. voice traffic, total (minutes/subscription/month) 17.2 16.7 . Domestic mobile traffic (minutes/subscription/month) 17.2 16.7 . . Individuals using the Internet (%) 35.8 74.2ª 81.0 . Quality Population covered by at least a 3G mobile network (%) 49 95 95 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,763 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 13.0 10.4	,			
Fixed-telephone subscriptions (per 100 people) 10.1 10.5 41.2 Mobile-cellular telephone subscriptions (per 100 people) 164.3 159.9 124.5 Fixed-broadband subscriptions (per 100 people) 164.3 159.9 124.5 Households with a computer (%) 54.3 87.5 ^a 83.2 Households with Internet access at home (%) 35.5 84.0 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 17.2 16.7 . Domestic mobile traffic (minutes/subscription/month) 17.2 16.7 . Individuals using the Internet (%) 35.8 74.2 ^a 81.0 Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,763 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4	-			
Mobile-cellular telephone subscriptions (per 100 people) 164.3 159.9 124.5 Fixed-broadband subscriptions (per 100 people) 2.1 5.6 31.0 Households with a computer (%) 54.3 87.5 ^a 83.2 Households with lnternet access at home (%) 35.5 84.0 ^a 85.0 Usage Introduction 17.2 16.7 .0 Individuals using the Internet (%) 35.8 74.2 ^a 81.0 ^a 85.0 Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,763 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 9.1 8.7 14.2 Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 9.1		10.1	10 5	41.2
Fixed-broadband subscriptions (per 100 people) 2.1 5.6 31.0 Households with a computer (%) 54.3 87.5 ^a 83.2 Households with Internet access at home (%) 35.5 84.0 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 17.2 16.7 Domestic mobile traffic (minutes/subscription/month) 17.2 16.7 Individuals using the Internet (%) 35.8 74.2 ^a 81.0 Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 9.1 8.7 14.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4				
Households with a computer (%) 54.3 87.5 ^a 83.2 Households with Internet access at home (%) 35.5 84.0 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 17.2 16.7 Domestic mobile traffic (minutes/subscription/month) 17.2 16.7 Individuals using the Internet (%) 35.8 74.2 ^a 81.0 Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 9.1 8.7 14.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4			5.6	31.0
Households with Internet access at home (%) 35.5 84.0a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 17.2 16.7 . Domestic mobile traffic (minutes/subscription/month) 81.7 87.9 195.5 Individuals using the Internet (%) 35.8 74.2a 81.0 Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,763 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4		54.3	87.5ª	83.2
Int'l. voice traffic, total (minutes/subscription/month) 17.2 16.7 Domestic mobile traffic (minutes/subscription/month) 81.7 87.9 195.9 Individuals using the Internet (%) 35.8 74.2ª 81.0 Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4		35.5	84.0ª	85.0
Int'l. voice traffic, total (minutes/subscription/month) 17.2 16.7 Domestic mobile traffic (minutes/subscription/month) 81.7 87.9 195.9 Individuals using the Internet (%) 35.8 74.2ª 81.0 Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4	llsade			
Individuals using the Internet (%) 35.8 74.2ª 81.0 Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4		17.2	16.7	
Quality Population covered by at least a 3G mobile network (%) 49 95 99 International Internet bandwidth (bit/s per Internet user) 5,582 59,784 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4	Domestic mobile traffic (minutes/subscription/month)	81.7	87.9	195.9
Population covered by at least a 3G mobile network (%)499595International Internet bandwidth (bit/s per Internet user)5,58259,784134,761Affordability9.18.714.2Mobile-cellular sub-basket (\$ a month)9.18.714.2Fixed-broadband sub-basket (\$ a month)33.618.225.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)13.010.4	Individuals using the Internet (%)	35.8	74.2ª	81.0
Population covered by at least a 3G mobile network (%)499595International Internet bandwidth (bit/s per Internet user)5,58259,784134,761Affordability9.18.714.2Mobile-cellular sub-basket (\$ a month)9.18.714.2Fixed-broadband sub-basket (\$ a month)33.618.225.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)13.010.4	Quality			
AffordabilityMobile-cellular sub-basket (\$ a month)9.18.714.2Fixed-broadband sub-basket (\$ a month)33.618.225.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)13.010.4		49	95	99
Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4	International Internet bandwidth (bit/s per Internet user)	5,582	59,784	134,761
Mobile-cellular sub-basket (\$ a month) 9.1 8.7 14.2 Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4	Affordability			
Fixed-broadband sub-basket (\$ a month) 33.6 18.2 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4		9.1	8.7	14.2
		33.6	18.2	25.2
	Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		13.0	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 13.0 13.0 14.4	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.0	13.0	14.4
Trade	Trade			
	ICT goods exports (% of total goods exports)			9.5
				11.2
ICT service exports (% of total service exports) 26.2 16.5 32.0	ICT service exports (% of total service exports)	26.2	16.5	32.0
Applications	Applications			
Online service index (0-1, 1=highest presence) 0.37 0.73 0.67				0.67
Secure Internet servers (per million people) 26.2 87.7 1,194.6	Secure Internet servers (per million people)	26.2	87.7	1,194.6

Pakistan

South Asia

Lower middle income

	owerm		Lower middle-
	Countr	y data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	170	189	2,927
Urban population (% of total)	37	39	
GNI per capita, World Bank Atlas method (\$)	1,080	1,440	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.3	4.2	
Adult literacy rate (% ages 15 and older)	55	56	
Gross primary, secondary, and tertiary school enrollment (%)	46	49	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.3	1.9	
Telecommunications investment (% of revenue)	0.1	40.4	
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	3.5 57.3 0.5 9.7ª 5.7ª	1.6 66.9 1.0 19.0 24.0	90.5 1.9 19.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	7.6	4.5	
Domestic mobile traffic (minutes/subscription/month)	66.2	227.6	
Individuals using the Internet (%)	8.0ª	18.0	28.6
Quality			
Population covered by at least a 3G mobile network (%)	0	46	
International Internet bandwidth (bit/s per Internet user)	4,332	11,907	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	3.0	2.1	
Fixed-broadband sub-basket (\$ a month)	14.2	6.6	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	2.7	1.9	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	22.5	5.7	10.0
Trade			
ICT goods exports (% of total goods exports)	0.2	0.2	5.7
ICT goods imports (% of total goods imports)	3.3	4.6	7.6
ICT service exports (% of total service exports)	16.4	29.3	48.0
Applications			
Applications Online service index (0-1, 1=highest presence)	0.25	0.32	0.26

Palau

East Asia & Pacific

Upper middle income

			Upper middle-
	Countr	y data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.02	0.02	2,594
Urban population (% of total)	83	87	64
GNI per capita, World Bank Atlas method (\$)	8,910	12,180	
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	-3.5	3.1 100	4.5
Gross primary, secondary, and tertiary school enrollment (%)		98	
Sector structure			
Separate telecommunications/ICT regulator		No	
Status of main fixed-line telephone operator	Public		
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity Telecommunications revenue (% of GDP)		4.5	2.1
Telecommunications investment (% of revenue)		44.8	
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	34.1	33.8	17.3
Mobile-cellular telephone subscriptions (per 100 people)	70.9	111.5	105.1
Fixed-broadband subscriptions (per 100 people)	1.2	5.7	15.4
Households with a computer (%)			48.7
Households with Internet access at home (%)	19.0		52.2
Usage	20.0	00.0	0.0
Int'l. voice traffic, total (minutes/subscription/month)	30.6	20.0	2.3 173.1
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)			52.1
individuals using the internet (%)			52.1
Quality Population covered by at least a 3G mobile network (%)		88	69
International Internet bandwidth (bit/s per Internet user)			26,098
A 66			
Affordability Mobile-cellular sub-basket (\$ a month)			8.5
Fixed-broadband sub-basket (\$ a month)			15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			11.1
Trade			
ICT goods exports (% of total goods exports)	1.0	4.4	15.7
ICT goods imports (% of total goods imports)	3.3	4.4	
ICT service exports (% of total service exports)	4.2	2.9	25.7
Applications		a	
Online service index (0-1, 1=highest presence)	0.05	0.17	
Secure Internet servers (per million people)	48.9	140.9	34.7

Panama

Latin America & Caribbean

Upper middle income

			Upper middle-
	Countr	-	income group
	2010	2015	2015
Economic and social context			
Population (millions)	4	4	2,594
Urban population (% of total)	65	67	64
GNI per capita, World Bank Atlas method (\$)	7,010	12,050	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	8.0	7.7	4.5
Adult literacy rate (% ages 15 and older)	94 77	95 76	
Gross primary, secondary, and tertiary school enrollment (%)	11	70	81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	Р	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.9	1.6	2.1
Telecommunications investment (% of revenue)	32.0	32.2	18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Hourobeldke with a computer (%)	14.7 180.7 7.0	15.6 174.2 7.9	17.3 105.1 15.4
Households with a computer (%) Households with Internet access at home (%)	27.9 20.3	39.6 52.7	48.7 52.2
Usage Int'l. voice traffic, total (minutes/subscription/month)	5.3	7.6	2.3
Domestic mobile traffic (minutes/subscription/month)	48.0	69.9	173.1
Individuals using the Internet (%)	40.1	51.2	52.1
0			
Quality Population covered by at least a 3G mobile network (%)		79ª	69
International Internet bandwidth (bit/s per Internet user)	16,950	75,906	26,098
		,	,
Affordability			
Mobile-cellular sub-basket (\$ a month)	10.1	12.6	8.5
Fixed-broadband sub-basket (\$ a month)	16.6	16.0	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	15.0	15.0	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.0	20.0	11.1
Trade			
ICT goods exports (% of total goods exports)	9.6		15.7
ICT goods imports (% of total goods imports)	9.6	4.9	14.4
ICT service exports (% of total service exports)	8.7	6.7	25.7
Applications	0.28	0.37	0.37
Online service index (0-1, 1=highest presence)	123.2	121.9	34.7
Secure Internet servers (per million people)	123.2	121.9	34.1

Papua New Guinea

East Asia & Pacific

Lower middle income

			Lower middle- income
-	Country 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	7	8	2,927
Urban population (% of total)	13	13	39
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	1,270 6.1	2,240 7.9	2,035 5.4
Adult literacy rate (% ages 15 and older)	0.1	63	
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly) International gateway(s)			
Mobile telephone service	M	М	
Internet service	Р	Р	
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	1.8	2.0	3.5
Mobile-cellular telephone subscriptions (per 100 people)	27.8	46.6	
Fixed-broadband subscriptions (per 100 people)	0.1	0.2	1.9
Households with a computer (%)	2.8ª	3.8	19.3
Households with Internet access at home (%)	2.2ª	5.34	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			7.5 152.0
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 1.3	 7.9ª	
	1.5	1.5	20.0
Quality Population covered by at least a 3G mobile network (%)			
International Internet bandwidth (bit/s per Internet user)	3,166	9,122	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	30.5	22.5	6.9
Fixed-broadband sub-basket (\$ a month)	136.1	21.7	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	60.0	23.8	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		39.3	10.0
Trade	0.0		5.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	2.9		5.7 7.6
ICT service exports (% of total service exports)	49.3	63.5	48.0
Applications			
Applications Online service index (0-1, 1=highest presence)	0.07	0.01	0.26

The Little Data Book on Information and Communication Technology 2016

Paraguay

Latin America & Caribbean

Upper middle income

			Upper middle-
	Countr 2010	y data 2015	income group 2015
Economic and social context	2020	2010	2020
Population (millions)	6	7	2,594
Urban population (% of total)	58	60	2,354
GNI per capita, World Bank Atlas method (\$)	2,930	4,220	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.4	5.3	4.5
Adult literacy rate (% ages 15 and older)	94	96	
Gross primary, secondary, and tertiary school enrollment (%)	72		81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)	0	С	
International gateway(s)	C C	C	
Mobile telephone service Internet service	c	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.7		2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access	5.0		47.0
Fixed-telephone subscriptions (per 100 people)	5.6 91.7	5.5 105.4	17.3 105.1
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	1.4	3.1	105.1
Households with a computer (%)	19.3	34.1	
Households with Internet access at home (%)	13.8	27.4	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	7.2	3.9	2.3
Domestic mobile traffic (minutes/subscription/month)	81.6	93.5	173.1
Individuals using the Internet (%)	19.8	44.4	52.1
Quality			
Population covered by at least a 3G mobile network (%)		66	
International Internet bandwidth (bit/s per Internet user)	8,295	17,922	26,098
Affordability	0.0	4.0	0 5
Mobile-cellular sub-basket (\$ a month)	8.6 19.0	4.9 28.6	8.5 15.5
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	19.0	28.0	15.5
Mobile-b'band, postpaid computer-based, 500 MB (\$ a month)	13.6	14.4	11.1
Trade			
ICT goods exports (% of total goods exports)	0.1	0.1	15.7
ICT goods imports (% of total goods imports)	27.0	14.6	14.4
ICT service exports (% of total service exports)	3.1	1.9	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.26	0.23	0.37
	6.9	27.9	34.7

Peru

Latin America & Caribbean

Upper middle income

Economic and social context Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	299 77 4,380 6.8 94 84 Yes Mixed C C C A A 3.0	ry data 2015 31 79 6,200 4.8 94 Yes Private C C R No 3.0	4.5
Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) 4 GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	29 77 4,380 6.8 94 84 Yes Mixed C C C A A 3.0	31 79 6,200 4.8 94 Yes Private C C C C R No	2,594 64 8,186 4.5 81
Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	77 4,380 6.8 94 84 Yes Mixed C C A A 3.0	79 6,200 4.8 94 Yes Private C C C R No	64 8,186 4.5 81
Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	77 4,380 6.8 94 84 Yes Mixed C C A A 3.0	79 6,200 4.8 94 Yes Private C C C R No	64 8,186 4.5 81
GNI per capita, <i>World Bank Atlas</i> method (\$) 4 GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	6.8 94 84 Yes Mixed C C A A 3.0	4.8 94 Private C C C R No	4.5 81
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	94 84 Yes Mixed C C A A A 3.0	94 Private C C C R No	
Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	84 Yes Mixed C C A A 3.0	Yes Private C C R No	81
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	Yes Mixed C C A A 3.0	Private C C R No	
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	Mixed C C A A 3.0	Private C C R No	
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	Mixed C C A A 3.0	Private C C R No	
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	 C A A 3.0	C C R No	
International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	C C A A 3.0	C R No	
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	C C A A 3.0	C R No	
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	C A A 3.0	C R No	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	A A 3.0	R No	
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity	A 3.0	No	
Sector efficiency and capacity	3.0		
		3.0	
			2.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	19.3	20.7	
		-	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	10.8	9.3	17.3
Mobile-cellular telephone subscriptions (per 100 people)	99.5	109.9	
Fixed-broadband subscriptions (per 100 people)	3.2	6.4	
Households with a computer (%)	22.6	32.4	48.7
Households with Internet access at home (%)	13.0	23.2	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	9.5		2.3
Domestic mobile traffic (minutes/subscription/month)	58.6		173.1
Individuals using the Internet (%)	34.8	40.9	52.1
Quality			
Population covered by at least a 3G mobile network (%)	55	91	69
International Internet bandwidth (bit/s per Internet user)	8,319	43,154	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	43.2	11.0	8.5
Fixed-broadband sub-basket (\$ a month)	42.2	11.0	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	15.2	9.4	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	7.6	14.1	11.1
Trade			
ICT goods exports (% of total goods exports)	0.1	0.1	
ICT goods imports (% of total goods imports)	7.5	9.0	
ICT service exports (% of total service exports)	14.0	10.6	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.41	0.63	0.37
Secure Internet servers (per million people)	14.1	32.4	34.7

Philippines

East Asia & Pacific

Lower middle income

			Lower middle-
	Counti 2010	y data 2015	income group 2015
	2010	2015	2015
Economic and social context	00	101	0.007
Population (millions)	93 45	101 44	2,927
Urban population (% of total)	45 2,750	44 3,540	39 2,035
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	2,750	5,540 6.1	2,035
	4.7	97	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	78	85	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)) A	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.6	1.9	
Telecommunications investment (% of revenue)	24.4	30.6	
Sector performance			
Access			0.5
Fixed-telephone subscriptions (per 100 people)	3.6	3.0	3.5
Mobile-cellular telephone subscriptions (per 100 people)	89.0	118.1	90.5
Fixed-broadband subscriptions (per 100 people)	1.9	3.4	1.9
Households with a computer (%)	13.6 9.5	27.0	
Households with Internet access at home (%)	9.0	28.3	24.3
Usage			7.5
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)			152.0
Individuals using the Internet (%)	 25.0	40.7	
Quality			
Quality Population covered by at least a 3G mobile network (%)	69	78	
International Internet bandwidth (bit/s per Internet user)	10,702	37,409	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	10.1	10.0	6.9
Fixed-broadband sub-basket (\$ a month)	22.1	22.0	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	11.8	4.4	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	23.7	19.7	10.0
Trade			
ICT goods exports (% of total goods exports)	26.8	34.6	5.7
ICT goods imports (% of total goods imports)	31.6	20.9	7.6
ICT service exports (% of total service exports)	74.9	71.4	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.39	0.48	0.26
Secure Internet servers (per million people)	6.7	13.7	7.4

Poland

Europe & Central Asia

High income

	Counti	y data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	38	38	1,187
Urban population (% of total)	61	61	81
GNI per capita, World Bank Atlas method (\$)	12,710	13,370	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.7	2.7	1.5
Adult literacy rate (% ages 15 and older)		100	
Gross primary, secondary, and tertiary school enrollment (%)	89	97	95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)	С	С	
International gateway(s) Mobile telephone service	P	C	
Internet service	C	c	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.0	2.3	2.5
Telecommunications investment (% of revenue)	16.5	17.0	18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	20.1	11.1	41.2
Mobile-cellular telephone subscriptions (per 100 people)	122.9	148.7	124.5
Fixed-broadband subscriptions (per 100 people)	15.3	19.5	31.0
Households with a computer (%)	69.0	77.9	83.2
Households with Internet access at home (%)	63.4	75.8	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	101.4	119.9	195.9
Individuals using the Internet (%)	62.3	68.0	81.0
Quality			
Population covered by at least a 3G mobile network (%)	61	100	99
International Internet bandwidth (bit/s per Internet user)	37,806	86,573	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	15.8	7.6	14.2
Fixed-broadband sub-basket (\$ a month)	18.0	10.3	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	7.7	2.7	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	30.7	8.0	14.4
Trade	9.6	7.7	9.5
ICT goods exports (% of total goods exports)	9.6 9.8	7.7 8.9	9.5 11.2
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	9.8 33.0	8.9 33.0	32.0
Applications	0.20	0.54	0.67
Online service index (0-1, 1=highest presence)	0.39 211.6	0.54 547.1	0.67 1,194.6
Secure Internet servers (per million people)	211.0	547.1	1,194.0

Portugal

Europe & Central Asia

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context Population (millions)	11	10	1.187
Urban population (% of total)	61	63	81
GNI per capita, World Bank Atlas method (\$)	22,960	20,530	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.4	-1.1	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	94 96	95 99	 95
Sector structure Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed) A	No	
Sector efficiency and capacity	4.2	2.7	2.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	4.2 14.2		2.5 18.8
	17.2	10.4	10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	42.4	44.1	41.2
Mobile-cellular telephone subscriptions (per 100 people)	115.3		124.5
Fixed-broadband subscriptions (per 100 people)	20.1	29.6	31.0
Households with a computer (%)	59.5	^a 71.1	83.2
Households with Internet access at home (%)	53.7	70.2	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	130.3		195.9
Individuals using the Internet (%)	53.3	68.6	81.0
Quality	84	99	99
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)		232,080	
international internet bandwidth (bit/s per internet user)	141,754	232,000	134,701
Affordability			
Mobile-cellular sub-basket (\$ a month)	22.9	14.2	14.2
Fixed-broadband sub-basket (\$ a month)	26.3	24.4	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.8 19.3	8.3 14.4	10.4 14.4
	10.0	14.4	14.4
Trade ICT goods exports (% of total goods exports)	4.0	2.3	9.5
ICT goods imports (% of total goods imports)	4.0	2.3 4.7	9.5 11.2
ICT service exports (% of total service exports)	18.4	22.5	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.39	0.64	0.67
Secure Internet servers (per million people)	174.7	315.9	1,194.6

Puerto Rico

Latin America & Caribbean

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	4	3	1,187
Urban population (% of total)	94	94	81
GNI per capita, World Bank Atlas method (\$)	16,640	19,320	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	-2.3	-1.9	1.5
Adult literacy rate (% ages 15 and older)	92	93	
Gross primary, secondary, and tertiary school enrollment (%)	95	85	95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.1	2.0	2.5
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	24.0	22.1	41.2
Mobile-cellular telephone subscriptions (per 100 people)	79.1	87.1	124.5
Fixed-broadband subscriptions (per 100 people)	14.9	18.0	31.0
Households with a computer (%)	55.0	57.3ª	
Households with Internet access at home (%)	50.0	51.8ª	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)	45.3	79.5ª	81.0
Quality			
Population covered by at least a 3G mobile network (%)		99	99
International Internet bandwidth (bit/s per Internet user)	136,866		134,761
Affordability			14.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4
Trade ICT goods exports (% of total goods exports)			9.5
ICT goods imports (% of total goods imports)			11.2
ICT service exports (% of total service exports)			32.0
			52.0
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	89.5	139.0	1,194.6

Qatar

Middle East & North Africa

High income

	Counti	Country data		Country data		ا ir Country data	
	2010	2015	group 2015				
Economic and social context			4 4 0 7				
Population (millions) Urban population (% of total)	2 99	2 99	1,187 81				
GNI per capita, World Bank Atlas method (\$)	66.890	85,430	41,366				
GDP growth, 2005–10 and 2010–15 (avg. annual %)	17.8	5.6	1.5				
Adult literacy rate (% ages 15 and older)	96	98					
Gross primary, secondary, and tertiary school enrollment (%)	57		95				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly)	Р	Р					
International gateway(s) Mobile telephone service	P	P P					
Internet service	P	P					
Foreign ownership (not allowed, restricted, allowed)	R	R					
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	1.4	1.2	2.5				
Telecommunications investment (% of revenue)	20.4	18.8	18.8				
Sector performance							
Access							
Fixed-telephone subscriptions (per 100 people)	15.4	18.2	41.2				
Mobile-cellular telephone subscriptions (per 100 people)	125.0 8.3	153.6 10.1	124.5 31.0				
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	87.0	88.3	83.2				
Households with Internet access at home (%)	81.8	95.8	85.0				
llaarte							
Usage Int'l. voice traffic, total (minutes/subscription/month)							
Domestic mobile traffic (minutes/subscription/month)			195.9				
Individuals using the Internet (%)	69.0	92.9	81.0				
Quality							
Population covered by at least a 3G mobile network (%)	98	98	99				
International Internet bandwidth (bit/s per Internet user)	20,295	71,566	134,761				
Affordability							
Mobile-cellular sub-basket (\$ a month)	18.4	18.7	14.2				
Fixed-broadband sub-basket (\$ a month)	54.9	64.0	25.2				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	27.5	22.0	10.4				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	27.5	16.5	14.4				
Trade	0.0	0.0	0.5				
ICT goods exports (% of total goods exports)	0.0 4.3	0.0 5.6	9.5 11.2				
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.5	5.0	32.0				
Applications	0.20	0.65	0.67				
Online service index (0-1, 1=highest presence)	0.28 85.0	0.65 296.6	0.67 1,194.6				
Secure Internet servers (per million people)	00.0	230.0	1,134.0				

Romania

Europe & Central Asia

Upper middle income

			Upper middle-
	Count	ry data 2015	income group 2015
Economic and social context			
Population (millions)	20	20	2,594
Urban population (% of total)	54	55	64
GNI per capita, World Bank Atlas method (\$)	8,590	9,500	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.0 99	2.4 99	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	99 90		 81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C C	C C	
Mobile telephone service Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.2	1.7	
Telecommunications investment (% of revenue)	23.8	19.1	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	20.6	19.8	17.3
Mobile-cellular telephone subscriptions (per 100 people)	111.4	107.1	105.1
Fixed-broadband subscriptions (per 100 people)	13.7	19.8	15.4
Households with a computer (%)	47.9	68.7	48.7
Households with Internet access at home (%)	42.2	67.7	52.2
Usage	0.0	175	0.0
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	8.9 177.9	17.5 243.4	
Individuals using the Internet (%)	39.9	55.8	
Quality			
Population covered by at least a 3G mobile network (%)	91	100	69
International Internet bandwidth (bit/s per Internet user)	50,405	146,012	26,098
Affordability		0.7	0.5
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	21.8 9.1	6.7 7.2	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.8		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.3		11.1
Trade			
ICT goods exports (% of total goods exports)	8.4		
ICT goods imports (% of total goods imports)	9.3	7.1	14.4
ICT service exports (% of total service exports)	35.0	36.7	25.7
Applications	0.40	0.44	0.37
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.42 42.2	0.44 229.3	0.37 34.7
	r∠.∠	220.0	54.1

Russian Federation

Europe & Central Asia Upper middle income Upper middleincome Country data group 2010 2015 2015 Economic and social context 144 2,594 Population (millions) 143 Urban population (% of total) 74 74 64 9,980 11.400 8.186 GNI per capita, World Bank Atlas method (\$) 3.1 1.3 4.5 GDP growth, 2005-10 and 2010-15 (avg. annual %) 100 100 Adult literacy rate (% ages 15 and older) 88 92 81 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator No No Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) С С Mobile telephone service Internet service ... Foreign ownership (not allowed, restricted, allowed) R Reg. treatment of VoIP (banned, closed, no framework, allowed) No А Sector efficiency and capacity 2.7 21 19 Telecommunications revenue (% of GDP) 15.3 19.6 188 Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 31.3 25.7 17.3 Mobile-cellular telephone subscriptions (per 100 people) 165.5 160.0 105 1 10.9 188 154Fixed-broadband subscriptions (per 100 people) Households with a computer (%) 55.0 72.5 48.7 41.3 72.1 52.2 Households with Internet access at home (%) Usage 2.3 Int'l. voice traffic, total (minutes/subscription/month) 173.1 Domestic mobile traffic (minutes/subscription/month) 1122 1511 Individuals using the Internet (%) 43.0 734 521 Ouality Population covered by at least a 3G mobile network (%) 73 69 17,812 26,845 26,098 International Internet bandwidth (bit/s per Internet user) Affordability Mobile-cellular sub-basket (\$ a month) 9.2 3.7 8.5 9.9 6.6 15.5 Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 16.2 3.3 77 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 16.2 5.7 11.1 Trade 15.7 ICT goods exports (% of total goods exports) 0.2 0.8 8.5 7.9 14.4 ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) 30.4 32.0 25.7 Applications 0.37 0.33 071 Online service index (0-1, 1=highest presence)

178

Secure Internet servers (per million people)

20.2

126.4

34.7

Rwanda

Sub-Saharan Africa

Low income

	Country	Country data		Lo inc country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	10	12	638		
Urban population (% of total)	24	29	31		
GNI per capita, World Bank Atlas method (\$)	550	700	620		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	8.4	6.9	5.4		
Adult literacy rate (% ages 15 and older)	66	71			
Gross primary, secondary, and tertiary school enrollment (%)	69	73	60		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed				
Level of competition (competition, partial comp., monopoly)	Р	Р			
International gateway(s) Mobile telephone service	P C	P C			
Internet service	c	C			
Foreign ownership (not allowed, restricted, allowed)	A	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)		No			
	110	110			
Sector efficiency and capacity	2.0	20			
Telecommunications revenue (% of GDP)	2.9 108.6	2.8 28.9			
Telecommunications investment (% of revenue)	100.0	20.9			
Sector performance					
Access	0.4	0.1	0.0		
Fixed-telephone subscriptions (per 100 people)	0.4	0.1 70.5	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	32.7 0.0	70.5 0.2	60.0 0.3		
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	1.3	0.2 4.0ª			
Households with a computer (%)	1.3 ^a	4.0 ⁴			
Usage Int'l. voice traffic, total (minutes/subscription/month)	3.7	1.7			
Domestic mobile traffic (minutes/subscription/month)	50.5	79.5	48.9		
Individuals using the Internet (%)	8.0	18.0ª			
Quality Population covered by at least a 3G mobile network (%)		88	51		
International Internet bandwidth (bit/s per Internet user)	 1.895	5,661	4,245		
	1,000	0,001	1,210		
Affordability	447	5.0	0.4		
Mobile-cellular sub-basket (\$ a month)	<i>14.7</i> 163.5	5.9 97.1	9.4 33.6		
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	8.1	1.4	8.0		
Mobile-b'band, postpaid computer-based, 500 MB (\$ a month)	0.1	8.2	10.8		
		0.2	1010		
Trade	0.6	1.1			
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	7.1	9.2	 3.4		
ICT service exports (% of total service exports)	2.1	3.2			
· · · · · · · · · · · · · · · · · · ·					
Applications	0.17	0.51	0.14		
Online service index (0-1, 1=highest presence)	0.17 0.7	0.51 4.1	0.11 1.5		
Secure Internet servers (per million people)	0.1	4.1	1.5		

Samoa

East Asia & Pacific

Lower middle income

			Lower middle- income
	Country	ry data grou	
	2010	2015	2015
Economic and social context			
Population (millions)	0.19	0.19	2,927
Urban population (% of total)	20	19	39
GNI per capita, World Bank Atlas method (\$)	3,230	3,930	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.9	0.9	5.4
Adult literacy rate (% ages 15 and older)	99	99	
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	4.3	5.6	3.5
Mobile-cellular telephone subscriptions (per 100 people)	48.4	58.5	90.5
Fixed-broadband subscriptions (per 100 people)	0.1	1.1	1.9
Households with a computer (%)	13.0 ^a	22.6	
Households with Internet access at home (%)	10.0ª	25.5	24.3
llaaga			
Usage Int'l. voice traffic, total (minutes/subscription/month)	20.8	21.1	7.5
Domestic mobile traffic (minutes/subscription/month)	2010		152.0
Individuals using the Internet (%)	7.0ª	25.4	
Quality			
Population covered by at least a 3G mobile network (%)		1	
International Internet bandwidth (bit/s per Internet user)	3,840	7,842	10,372
A 66			
Affordability	17.6	16.5	6.9
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	60.0	16.5 38.7	6.9 14.3
	39.3	30.7 19.5	14.3 5.8
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	39.3 32.7	20.2	5.8 10.0
moone o band, postpaid computer-based, 1 db (¢ a III0IItii)	52.1	20.2	10.0
Trade			
ICT goods exports (% of total goods exports)	0.1	0.4	5.7
ICT goods imports (% of total goods imports)	2.4	3.8	7.6
ICT service exports (% of total service exports)	10.1	9.5	48.0
Applications	0.14	· ·	
Online service index (0-1, 1=highest presence)	0.14	0.24	0.26
Secure Internet servers (per million people)	21.5	41.4	7.4

San Marino

Europe & Central Asia

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.03 94 52,140 3.1	0.03 94 	1,187 81 41,366 1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			95
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s)	No Mixed	No Private	
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed)	C 	C 	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			2.5 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	63.4 99.1 19.4 	52.0 115.2 36.6 	41.2 124.5 31.0 83.2 85.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 49.6		 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 649,359	86 	99 134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 25.7 37.3	24.1 18.5 27.7 11.1	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)			9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.18 1,270.8	<i>0.28</i> 1,636.2	0.67 1,194.6

São Tomé and Príncipe

Sub-Saharan Africa Lower middle income Lower middleincome Country data group 2010 2015 2015 Economic and social context Population (millions) 0.17 0.19 2,927 Urban population (% of total) 62 65 39 1.190 1.670 2.035 GNI per capita, World Bank Atlas method (\$) 5.7 4.5 5.4 GDP growth, 2005-10 and 2010-15 (avg. annual %) 90 92 Adult literacy rate (% ages 15 and older) 69 80 68 Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Yes Yes Mixed Mixed Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Μ М Internet service Μ М Foreign ownership (not allowed, restricted, allowed) ... Reg. treatment of VoIP (banned, closed, no framework, allowed) No No Sector efficiency and capacity 86 Telecommunications revenue (% of GDP) 60.0 Telecommunications investment (% of revenue) Sector performance Access 4.4 3.5 3.5 Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) 576 65 1 90.5 0.3 0.5 19 Fixed-broadband subscriptions (per 100 people) Households with a computer (%) 19.3 ... 24.3 Households with Internet access at home (%) ... Usage 9.1 7.5 Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 26.2 1520 Individuals using the Internet (%) 188 25 8a 28.6 Ouality Population covered by at least a 3G mobile network (%) 2 8.594 10.372 International Internet bandwidth (bit/s per Internet user) 1,197 Affordability Mobile-cellular sub-basket (\$ a month) 12.7 11.7 6.9 285.4 27.7 14.3 Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 163.9 45 5.8 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 115.5 29.1 10.0 Trade 5.7 ICT goods exports (% of total goods exports) 0.7 0.1 5.8 4.3 7.6 ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) 9.9 19.3 48.0

ApplicationsOnline service index (0-1, 1=highest presence)0.090.010.26Secure Internet servers (per million people)17.610.57.4

Saudi Arabia

Middle East & North Africa

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	28	32	1,187
Urban population (% of total)	82	83	81
GNI per capita, World Bank Atlas method (\$)	18,470	23,550	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	5.4	4.6	1.5
Adult literacy rate (% ages 15 and older)		95	
Gross primary, secondary, and tertiary school enrollment (%)	79	96	95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	 P		
Mobile telephone service Internet service	P C	C C	
Foreign ownership (not allowed, restricted, allowed)	No	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		C	
		-	
Sector efficiency and capacity	2.1	0.1	0.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.1 19.1	2.1 13.5	2.5 18.8
nelecommunications investment (% of revenue)	15.1	15.5	10.0
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	15.3	12.5	41.2
Mobile-cellular telephone subscriptions (per 100 people)	189.2	176.6	124.5
Fixed-broadband subscriptions (per 100 people)	6.3 57.3ª	12.0 67.0	31.0 83.2
Households with a computer (%) Households with Internet access at home (%)	54.4ª	94.0	85.0
	54.4	54.0	
Usage		05.0	
Int'l. voice traffic, total (minutes/subscription/month)	29.2 101.5	35.9 106.5	 195.9
Domestic mobile traffic (minutes/subscription/month)	41.0	106.5 69.6	195.9 81.0
Individuals using the Internet (%)	41.0	09.0	01.0
Quality			
Population covered by at least a 3G mobile network (%)	90	97	99
International Internet bandwidth (bit/s per Internet user)	11,095	88,669	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	15.4	14.1	14.2
Fixed-broadband sub-basket (\$ a month)	26.6	39.7	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	18.7	18.7	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	26.4	11.7	14.4
Trade			
ICT goods exports (% of total goods exports)	0.1	0.2	9.5
ICT goods imports (% of total goods imports)	7.2	7.4	11.2
ICT service exports (% of total service exports)	3.4	1.9	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.31	0.77	0.67
Secure Internet servers (per million people)	17.1	53.7	1,194.6

Senegal

Sub-Saharan Africa

Low income

	Country data		Low- income group
-	2010	2015	2015
Economic and social context			
Population (millions)	13	15	638
Urban population (% of total)	42	44	31
GNI per capita, World Bank Atlas method (\$)	1,040	1,000	620
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	3.6 52	4.1 56	5.4
Gross primary, secondary, and tertiary school enrollment (%)	47		60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	Р	С	
International gateway(s) Mobile telephone service	P	C	
Internet service	P	c	
Foreign ownership (not allowed, restricted, allowed)	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	9.9	9.7	
Telecommunications investment (% of revenue)	25.5	12.3	
Sector performance			
Access	2.6	2.0	0.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	64.4	99.9	60.0
Fixed-broadband subscriptions (per 100 people)	0.6	0.7	0.3
Households with a computer (%)	5.7ª	12.9ª	4.8
Households with Internet access at home (%)	4.2ª	15.7ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	13.5	7.6	
Domestic mobile traffic (minutes/subscription/month)	69.9 8.0ª	96.3 21.7ª	48.9 9.5
Individuals using the Internet (%)	8.0ª	21.7ª	9.5
Quality Population covered by at least a 3G mobile network (%)			51
International Internet bandwidth (bit/s per Internet user)	5,212	6,931	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	13.7	13.8	9.4
Fixed-broadband sub-basket (\$ a month)	36.1	30.4	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	29.4	8.0	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		8.5	10.8
Trade	0.4	0.4	
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	3.3	2.8	3.4
ICT service exports (% of total service exports)	33.6		
Applications			
Online service index (0-1, 1=highest presence)	0.18	0.31	0.11
Secure Internet servers (per million people)	1.1	5.2	1.5

Serbia

Europe & Central Asia

Upper middle income

					Upper middle- income
	Country data 2010 2015		group		
Economic and social context					
Population (millions)	7	7	2,594		
Urban population (% of total)	55	56	64		
GNI per capita, World Bank Atlas method (\$)	5,850	5,500	8,186		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.7	0.3			
Adult literacy rate (% ages 15 and older)	98	98			
Gross primary, secondary, and tertiary school enrollment (%)	79	84	81		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)					
Mobile telephone service	C	С			
Internet service	C A	C R			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A			
	А	А			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	4.9	4.6	2.1		
Telecommunications investment (% of revenue)	18.4	12.4	18.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	39.3	36.5			
Mobile-cellular telephone subscriptions (per 100 people)	125.3	120.5			
Fixed-broadband subscriptions (per 100 people)	10.9	16.8			
Households with a computer (%)	50.9ª 40.2ª	64.4 63.8			
Households with Internet access at home (%)	40.2ª	03.8	52.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	8.6	7.0			
Domestic mobile traffic (minutes/subscription/month)	73.3	131.3			
Individuals using the Internet (%)	40.9	65.3	52.1		
Quality					
Population covered by at least a 3G mobile network (%)	69	97	69		
International Internet bandwidth (bit/s per Internet user)	45,597	20,478	26,098		
Affordability					
Mobile-cellular sub-basket (\$ a month)	8.6	14.3	8.5		
Fixed-broadband sub-basket (\$ a month)	15.3	14.2			
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	6.9	4.6	7.7		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.6	6.4	11.1		
Trade					
ICT goods exports (% of total goods exports)	1.6	1.4	15.7		
ICT goods imports (% of total goods imports)	4.2	3.2			
ICT service exports (% of total service exports)	34.0	36.7	25.7		
Annilastiana					
Applications Online service index (0-1, 1=highest presence)	0.22	0.39	0.37		
Secure Internet servers (per million people)	19.9	63.5	34.7		

Seychelles

Sub-Saharan Africa

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context Population (millions)	0.09	0.09	1,187
Urban population (% of total)	52	54	81
GNI per capita, World Bank Atlas method (\$)	10,190	14,760	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.6	5.4	1.5
Adult literacy rate (% ages 15 and older)	94	95	
Gross primary, secondary, and tertiary school enrollment (%)	71	77	95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	C C	
Mobile telephone service Internet service	Р С	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
,,			
Sector efficiency and capacity	3.8		2.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	5.0		18.8
			10.0
Sector performance			
Access	04.0	00.0	44.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	24.2 128.9	22.8 158.1	41.2 124.5
Fixed-broadband subscriptions (per 100 people)	7.4	138.1	31.0
Households with a computer (%)	37.8	66.8ª	
Households with Internet access at home (%)	26.1	59.4ª	
Usage Int'l. voice traffic, total (minutes/subscription/month)	9.1	4.1	
Domestic mobile traffic (minutes/subscription/month)	42.3	59.9	195.9
Individuals using the Internet (%)	41.0ª	58.1ª	81.0
Quality			
Population covered by at least a 3G mobile network (%)	90	90	99
International Internet bandwidth (bit/s per Internet user)	4,961	38,395	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	15.9	13.2	14.2
Fixed-broadband sub-basket (\$ a month)	48.1	15.1	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	29.9	16.9	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	21.8	18.7	14.4
Trade			
ICT goods exports (% of total goods exports)	0.0		9.5
ICT goods imports (% of total goods imports)	2.1		11.2
ICT service exports (% of total service exports)	7.5	28.1	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.06	0.33	0.67
Secure Internet servers (per million people)	1,114.0	484.4	1,194.6

Sierra Leone

Sub-Saharan Africa

Low income

	Country	Country data		Lo inc country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	6	6	638		
Urban population (% of total)	38	40	31		
GNI per capita, World Bank Atlas method (\$)	470	630	620		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.8	6.9	5.4		
Adult literacy rate (% ages 15 and older)		48			
Gross primary, secondary, and tertiary school enrollment (%)			60		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s) Mobile telephone service	P P	P P			
Internet service	Р	r P			
Foreign ownership (not allowed, restricted, allowed)					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)					
Telecommunications investment (% of revenue)					
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	0.2	0.3	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	34.8	89.5	60.0		
Fixed-broadband subscriptions (per 100 people)			0.3		
Households with a computer (%)			4.8 7.1		
Households with Internet access at home (%)			1.1		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)			 48.9		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 0.6ª	 2.5ª			
individuals using the internet (70)	0.0*	2.0	0.0		
Quality Population covered by at least a 3G mobile network (%)			51		
International Internet bandwidth (bit/s per Internet user)	5,096		4,245		
	5,050		7,275		
Affordability		12.0	9.4		
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		24.4	33.6		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	28.3	13.6	8.0		
Mobile-b'band, postpaid computer-based, 500 MD (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		22.8	10.8		
Trade					
ICT goods exports (% of total goods exports)		0.0			
ICT goods imports (% of total goods imports)		1.8	3.4		
ICT service exports (% of total service exports)	5.8	60.1			
Applications					
Online service index (0-1, 1=highest presence)	0.00	0.05	0.11		
Secure Internet servers (per million people)	0.2	0.9	1.5		

Singapore

East Asia & Pacific

High income

2010 2015 Economic and social context Population (millions) 5 6 1,187 Urban population (% of total) 100 100 816 GNP growth, 2005-10 and 2010-15 (avg. annual %) 5.7 4.0 1.5 Adult literacy rate (% ages 15 and older) 96 97 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C C Mobile telephone service C C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VolP (banned, closed, no framework, allowed) A A Recess Fixed-telephone subscriptions (per 100 people) 3.5 3.6.0 41.2 Mobile-cellulat telephone subscriptions (per 100 people) 145.4 146.1 124.5 Fixed-telephone subscriptions (per 100 people) 26.4 26.5 31.0		Count	ry data	High- income group
Population (millions) 5 6 1,187 Urban population (% of total) 100 100 81 GNI per capita, World Bank Atlas method (\$) 44,790 52,090 41,366 GOP growth, 2005–10 and 2010–15 (avg. annual %) 5.7 4.0 1.5 Adult literacy rate (% ages 15 and older) 96 97 Gross primary, secondary, and tertiary school enrollment (%) 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.5 3.6 2.5 Telecommunications investment (% of revenue) 18.8 Sector efformance Access Fixed-telephone subscriptions (per 100 people)		2010	2015	
Urban population (% of total) 100 100 81 GNI per capita, World Bank Attas method (\$) 44,790 52,090 41,366 GPP growth, 2005-10 and 2010-15 (ag. annual %) 5.7 4.0 1.5 Adult literacy rate (% ages 15 and older) 96 97 Gross primary, secondary, and tertiary school enrollment (%) 95 Sector structure Sector structure Sector structure Sector structure Sector structure Sector structure Sector structure C C C Internet service C C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity Telecommunications investment (% of revenue) 18.8 Sector performance A A A Sector performance Access Fixed-telephone subscriptions (per 100 people) 145.4 146.1 124.5 Fixed-telephone subscriptions (per 100 people) 26.4 26.5 31.0 <		5	6	1 107
GNI per capita, World Bank Attas method (\$) 44,790 52,090 41,366 GNI per capita, World Bank Attas method (\$) 96 97 Adult literacy rate (% ages 15 and older) 96 97 Sector structure Separate telecommunications/ICT regulator Yes Yes Settus of main fixed-line telephone operator Mixed Mixed Mixed Level of competition, partial comp., monopoly) International gateway(s) C C C Mobile telephone service C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A A Sector efficiency and capacity Itelecommunications investment (% of revenue) 18.8 Sector performance Access A A A Moselie-cellephone subscriptions (per 100 people) 39.3 36.0 41.2 Mobile-cellular telephone subscriptions (per 100 people) 145.4 146.1 124.5 Fixed-trelephone subscriptions (per 100 people) 26.4 26.5 31.0 Moseholds with Internet access at home		-	-	,
GDP growth, 2005-10 and 2010-15 (avg. annual %) 5.7 4.0 1.5 Adult literacy rate (% ages 15 and older) 96 97 Gross primary, secondary, and tertiary school enrollment (%) 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C C C International gateway(s) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.5 3.6 2.5 Telecommunications investment (% of revenue) 18.8 Sector performance Access Access Fixed-telephone subscriptions (per 100 people) 34.3 36.0 41.2 Mobile-cellular telephone subscriptions (per 100 people) 26.4 26.5 31.0 Households with a computer (%) 84.0 87.5 ^a 83.2 Hixed broadband subscriptions (per 100 people) 145.4 146.1 124.5 Fixed-broadband subscription/month) 89.1 7.9.2				
Gross primary, secondary, and tertiary school enrollment (%) .		5.7	4.0	1.5
Sector structure Yes Yes Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C C International gateway(s) C C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.5 3.6 2.5 Telecommunications investment (% of revenue) 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 145.4 146.1 124.5 Fixed-broadband subscriptions (per 100 people) 26.4 26.5 31.0 Households with a computer (%) 82.0 89.5 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 195.9 Ind'ividuals using the Internet (%) 71.0 82	Adult literacy rate (% ages 15 and older)	96	97	
Separate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternational gateway(s)CCCMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)3.53.62.5Telecommunications investment (% of revenue)18.8Sector performanceAAAccessFixed-troadband subscriptions (per 100 people)145.4146.1124.5Mobile-cellular telephone subscriptions (per 100 people)145.4146.1124.5Households with a computer (%)84.087.5ª83.2Households with Internet access at home (%)82.089.5ª85.0UsageIntrivioue traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)89.179.2Domestic mobile traffic (at a add mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)172,404737,006134,761AffordabilityStat a add mobile -ellular sub-basket (\$ a month).7.310.4Mobile-cellular sub-basket (\$ a month	Gross primary, secondary, and tertiary school enrollment (%)			95
Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C C Mobile telephone service C C C Mobile telephone service C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity - . . Telecommunications revenue (% of GDP) 3.5 3.6 2.5 Telecommunications investment (% of revenue) Sector performance Access Fixed-trelephone subscriptions (per 100 people) 145.4 146.1 124.5 . <t< td=""><td>Sector structure</td><td></td><td></td><td></td></t<>	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s) C C Internet and gateway(s) C C C Mobile telephone service C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications investment (% of GDP) 3.5 3.6 2.5 Telecommunications investment (% of revenue) . . 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 145.4 146.1 124.5 Fixed-telephone subscriptions (per 100 people) 26.4 26.5 31.0 Households with a computer (%) 84.0 87.5 ^a 83.2 Households with Internet access at home (%) 89.1 79.2 . Domestic mobile traffic (minutes/subscription/month) . . 195.9 Individuals using the Internet (%) 100 100 99 International Internet bandwidth (bit/s per Internet user) 172,404				
International gateway(s)CCCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)3.53.62.5Telecommunications investment (% of revenue)18.8Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)145.4146.1124.5Nobile-cellular telephone subscriptions (per 100 people)26.426.531.0Households with a computer (%)84.087.5ª83.2Households with a computer (%)82.089.5ª85.0UsageInt'l. voice traffic, total (minutes/subscription/month)9.179.2.Ind'l voice traffic, total (minutes/subscription/month)10010099International Internet bandwidth (bit/s per Internet user)172,404737,006134,761Affordability81.88.014.2Mobile-c'broadband sub-basket (\$ a month)26.729.025.2Aboile-c'broadband sub-basket (\$ a month).7.310.4Mobile-c'brand, prepaid handset-based, 500 MB (\$ a month).14.514.4TradeICT goods exports (% of total goods imports)27.924.511.2ICT goods exports (% of total goods imports)27.924.511.2ICT service export		Mixed	Mixed	
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Fixed-broadband subscriptions (per 100 people) 26.4 26.5 31.0 Households with a computer (%) 84.0 87.5ª 83.2 Households with Internet access at home (%) 82.0 89.5ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 89.1 79.2 Domestic mobile traffic (minutes/subscription/month) 195.9 Individuals using the Internet (%) 71.0 82.1ª 81.0 Quality Population covered by at least a 3G mobile network (%) 100 100 99 International Internet bandwidth (bit/s per Internet user) 172,404 737,006 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 8.1 8.0 14.2 Fixed-broadband sub-basket (\$ a month) 7.3 10.4 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 7.3 10.4 ICT goods exports (% of total goods exports) 34.3 30.0 9.5 102 92.4.5 11.2 ICT goods imports (% of total goods imports) 27.9 24.5 11.2 107 32.0				
Households with a computer (%) 84.0 87.5ª 83.2 Households with Internet access at home (%) 82.0 89.5ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 89.1 79.2 Domestic mobile traffic (minutes/subscription/month) 9.1 79.2 195.9 Individuals using the Internet (%) 71.0 82.1ª 81.0 Quality Population covered by at least a 3G mobile network (%) 100 100 99 International Internet bandwidth (bit/s per Internet user) 172,404 737,006 134,761 Affordability Nobile-cellular sub-basket (\$ a month) 8.1 8.0 14.2 Fixed-broadband sub-basket (\$ a month) 26.7 29.0 25.2 Mobile-cb'band, postpaid computer-based, 500 MB (\$ a month) 7.3 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14.5 14.4 Trade ICT goods imports (% of total goods imports) 27.9 24.5 11.2 ICT goods imports (% of total service exports) 22.9 27.7 32.0				
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Int'l. voice traffic, total (minutes/subscription/month)89.179.2Domestic mobile traffic (minutes/subscription/month)195.9Individuals using the Internet (%)71.082.1ª81.0QualityPopulation covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)172,404737,006134,761AffordabilityMobile-cellular sub-basket (\$ a month)8.18.014.2Fixed-broadband sub-basket (\$ a month)7.310.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)7.310.4ICT goods exports (% of total goods exports)34.330.09.5ICT goods imports (% of total goods imports)27.924.511.2ICT service exports (% of total service exports)22.927.732.0	lleage			
Domestic mobile traffic (minutes/subscription/month)195.9Individuals using the Internet (%)71.082.1ª81.0QualityPopulation covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)172,404737,006134,761Affordability8.18.014.2Fixed-broadband sub-basket (\$ a month)8.18.014.2Kobile-b'band, prepaid handset-based, 500 MB (\$ a month)7.310.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)14.514.4TradeICT goods exports (% of total goods exports)24.330.09.5ICT goods imports (% of total goods imports)27.924.511.2ICT service exports (% of total service exports)22.927.732.0		89.1	79.2	
Individuals using the Internet (%) 71.0 82.1ª 81.0 Quality Population covered by at least a 3G mobile network (%) 100 100 199 International Internet bandwidth (bit/s per Internet user) 172,404 737,006 134,761 Affordability Nobile-biband, basket (\$ a month) 8.1 8.0 14.2 Fixed-broadband sub-basket (\$ a month) 26.7 29.0 25.2 Mobile-biband, prepaid handset-based, 500 MB (\$ a month) 7.3 10.4 Mobile-biband, postpaid computer-based, 1 GB (\$ a month) 14.5 14.4 Trade ICT goods exports (% of total goods exports) 34.3 30.0 9.5 ICT goods imports (% of total goods imports) 27.9 24.5 11.2 ICT service exports (% of total service exports) 22.9 27.7 32.0				195.9
Population covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)172,404737,006134,761Affordability Mobile-cellular sub-basket (\$ a month)8.18.014.2Fixed-broadband sub-basket (\$ a month)26.729.025.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)7.310.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)14.514.4TradeICT goods exports (% of total goods exports)27.924.511.2ICT service exports (% of total service exports)22.927.732.0		71.0	82.1ª	81.0
Population covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)172,404737,006134,761Affordability Mobile-cellular sub-basket (\$ a month)8.18.014.2Fixed-broadband sub-basket (\$ a month)26.729.025.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)7.310.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)14.514.4TradeICT goods exports (% of total goods exports)27.924.511.2ICT service exports (% of total service exports)22.927.732.0	Quality			
AffordabilityMobile-cellular sub-basket (\$ a month)8.18.014.2Fixed-broadband sub-basket (\$ a month)26.729.025.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)7.310.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)14.514.4TradeICT goods exports (% of total goods exports)34.330.09.5ICT goods imports (% of total goods imports)27.924.511.2ICT service exports (% of total service exports)22.927.732.0		100	100	99
Mobile-cellular sub-basket (\$ a month) 8.1 8.0 14.2 Fixed-broadband sub-basket (\$ a month) 26.7 29.0 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 7.3 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14.5 14.4 Trade ICT goods exports (% of total goods exports) 34.3 30.0 9.5 ICT goods imports (% of total goods imports) 27.9 24.5 11.2 ICT service exports (% of total service exports) 22.9 27.7 32.0	International Internet bandwidth (bit/s per Internet user)	172,404	737,006	134,761
Mobile-cellular sub-basket (\$ a month) 8.1 8.0 14.2 Fixed-broadband sub-basket (\$ a month) 26.7 29.0 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 7.3 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14.5 14.4 Trade ICT goods exports (% of total goods exports) 34.3 30.0 9.5 ICT goods imports (% of total goods imports) 27.9 24.5 11.2 ICT service exports (% of total service exports) 22.9 27.7 32.0	Affordability			
Fixed-broadband sub-basket (\$ a month) 26.7 29.0 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 7.3 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14.5 14.4 Trade ICT goods exports (% of total goods exports) 34.3 30.0 9.5 ICT goods imports (% of total goods imports) 27.9 24.5 11.2 ICT service exports (% of total service exports) 22.9 27.7 32.0		8.1	8.0	14.2
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)14.514.4TradeICT goods exports (% of total goods exports)34.330.09.5ICT goods imports (% of total goods imports)27.924.511.2ICT service exports (% of total service exports)22.927.732.0		26.7	29.0	25.2
TradeICT goods exports (% of total goods exports)34.330.09.5ICT goods imports (% of total goods imports)27.924.511.2ICT service exports (% of total service exports)22.927.732.0	Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		7.3	10.4
ICT goods exports (% of total goods exports) 34.3 30.0 9.5 ICT goods imports (% of total goods imports) 27.9 24.5 11.2 ICT service exports (% of total service exports) 22.9 27.7 32.0	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		14.5	14.4
ICT goods imports (% of total goods imports)27.924.511.2ICT service exports (% of total service exports)22.927.732.0	Trade			
ICT service exports (% of total service exports) 22.9 27.7 32.0	ICT goods exports (% of total goods exports)	34.3	30.0	9.5
	ICT goods imports (% of total goods imports)			
	ICT service exports (% of total service exports)	22.9	27.7	32.0
Applications	Applications			
Online service index (0-1, 1=highest presence) 0.69 0.99 0.67		0.69	0.99	0.67
Secure Internet servers (per million people) 529.7 932.1 1,194.6	Secure Internet servers (per million people)	529.7	932.1	1,194.6

Sint Maarten (Dutch part)

Latin America & Caribbean

High income

	Countr	Country data		ii Country data		Country data		in	in	in	High- income group
	2010	2015	2015								
Economic and social context											
Population (millions)	0.04	0.04	1,187								
Urban population (% of total)	100	100	81								
GNI per capita, World Bank Atlas method (\$)			41,366								
GDP growth, 2005–10 and 2010–15 (avg. annual %)			1.5								
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 95								
Sector structure											
Separate telecommunications/ICT regulator											
Status of main fixed-line telephone operator											
Level of competition (competition, partial comp., monopoly)											
International gateway(s)											
Mobile telephone service											
Internet service											
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)											
Sector efficiency and capacity			2.5								
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			2.5 18.8								
			10.0								
Sector performance											
Access			41.2								
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	 155.2		41.2 124.5								
Fixed-broadband subscriptions (per 100 people)			31.0								
Households with a computer (%)			83.2								
Households with Internet access at home (%)			85.0								
Usage			<u> </u>								
Int'l. voice traffic, total (minutes/subscription/month)											
Domestic mobile traffic (minutes/subscription/month)			195.9								
Individuals using the Internet (%)			81.0								
Quality Population covered by at least a 3G mobile network (%)			99								
International Internet bandwidth (bit/s per Internet user)			134,761								
Affordability Mobile-cellular sub-basket (\$ a month)			14.2								
Fixed-broadband sub-basket (\$ a month)			25.2								
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			10.4								
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			14.4								
Trade											
ICT goods exports (% of total goods exports)			9.5								
ICT goods imports (% of total goods imports)			11.2								
ICT service exports (% of total service exports)	14.3	13.1	32.0								
Applications											
Online service index (0-1, 1=highest presence)			0.67								
Secure Internet servers (per million people)		180.3	1,194.6								

Slovak Republic

Europe & Central Asia

High income

	Countr	Country data		Country data		Country data		Country data		Country data	Country data	High- income group
	2010	2015	2015									
Economic and social context												
Population (millions)	5	5	1,187									
Urban population (% of total)	55	54	81									
GNI per capita, World Bank Atlas method (\$)	17,590	17,310	41,366									
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	4.4	2.2	1.5									
Gross primary, secondary, and tertiary school enrollment (%)	82	82	95									
Sector structure												
Separate telecommunications/ICT regulator	Yes	Yes										
Status of main fixed-line telephone operator	Mixed	Mixed										
Level of competition (competition, partial comp., monopoly) International gateway(s)	Р	С										
Mobile telephone service	г Р	c										
Internet service	C	C										
Foreign ownership (not allowed, restricted, allowed)	Α	А										
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	No										
Sector efficiency and capacity												
Telecommunications revenue (% of GDP)	2.9 18.1	2.2 18.7	2.5 18.8									
Telecommunications investment (% of revenue)	10.1	10.7	10.0									
Sector performance												
Access Fixed-telephone subscriptions (per 100 people)	20.2	15.9	41.2									
Mobile-cellular telephone subscriptions (per 100 people)	109.0	122.3	124.5									
Fixed-broadband subscriptions (per 100 people)	16.1	23.3	31.0									
Households with a computer (%)	72.2	85.2ª	83.2									
Households with Internet access at home (%)	67.5	78.8ª	85.0									
Usage	44.0	10.0										
Int'l. voice traffic, total (minutes/subscription/month)	11.2 113.0	13.6	 195.9									
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	75.7	129.6 85.0ª										
individuals using the internet (\hbar)	15.1	00.0-	01.0									
Quality Population covered by at least a 3G mobile network (%)	69	93	99									
International Internet bandwidth (bit/s per Internet user)	12,155	17,240	134,761									
Affordability												
Mobile-cellular sub-basket (\$ a month)	38.2	13.4	14.2									
Fixed-broadband sub-basket (\$ a month)	25.9	16.6	25.2									
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.3 21.2	7.8 11.1	10.4 14.4									
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	21.2	11.1	14.4									
Trade ICT goods exports (% of total goods exports)	19.1	17.6	9.5									
ICT goods imports (% of total goods imports)	15.6	14.5	11.2									
ICT service exports (% of total service exports)	19.9	29.8	32.0									
Applications												
Online service index (0-1, 1=highest presence)	0.35	0.49	0.67									
Secure Internet servers (per million people)	128.5	392.5	1,194.6									

Slovenia

Europe & Central Asia

High income

	Count	Country data		Country data		Country data ⁱⁱ	
	2010	2015	group 2015				
Economic and social context							
Population (millions)	2	2	1,187				
Urban population (% of total)	50	50	81				
GNI per capita, World Bank Atlas method (\$)	24,540	,	41,366				
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	1.5	0.3 100	1.5				
Gross primary, secondary, and tertiary school enrollment (%)	95	98					
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly)	С	С					
International gateway(s) Mobile telephone service	C	C					
Internet service	C	C					
Foreign ownership (not allowed, restricted, allowed)	Ā	Ă					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	А					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	2.2	2.1	2.5				
Telecommunications investment (% of revenue)	18.7	22.9	18.8				
Sector performance							
Access Fixed-telephone subscriptions (per 100 people)	44.3	36.2	41.2				
Mobile-cellular telephone subscriptions (per 100 people)	103.3		124.5				
Fixed-broadband subscriptions (per 100 people)	22.9		31.0				
Households with a computer (%)	70.5	77.8	83.2				
Households with Internet access at home (%)	68.1	77.6	85.0				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	11.2						
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	140.2 70.0	142.3 73.1	195.9 81.0				
	10.0	10.1	01.0				
Quality Population covered by at least a 3G mobile network (%)	85	100	99				
International Internet bandwidth (bit/s per Internet user)	55,634	154,627	134,761				
Affordability							
Mobile-cellular sub-basket (\$ a month)	20.8		14.2				
Fixed-broadband sub-basket (\$ a month)	34.2	21.1	25.2				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.4 14.1	8.9 7.7	10.4 14.4				
Trade							
ICT goods exports (% of total goods exports)	2.2	1.9	9.5				
ICT goods imports (% of total goods imports)	4.7	3.7	11.2				
ICT service exports (% of total service exports)	21.0	22.3	32.0				
Applications	a (-		a 4-				
Online service index (0-1, 1=highest presence)	0.40		0.67				
Secure Internet servers (per million people)	303.6	806.8	1,194.6				

Solomon Islands

East Asia & Pacific	Lower m	iddle i	ncome
	Country	y data	Lower middle- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	0.53	0.58	2,927
Urban population (% of total)	20	22	39
GNI per capita, World Bank Atlas method (\$)	910 4.3	1,940 4.4	2,035 5.4
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	4.5	4.4	
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly) International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) B	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access	1.0	1.0	2.5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	1.6 21.9	1.3 72.7	3.5 90.5
Fixed-broadband subscriptions (per 100 people)	0.5	0.2	1.9
Households with a computer (%)	3.8ª	6.7ª	19.3
Households with Internet access at home (%)	2.9ª	6.3ª	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)			152.0
Individuals using the Internet (%)	5.0ª	10.0ª	28.6
Quality			
Population covered by at least a 3G mobile network (%)		12	
International Internet bandwidth (bit/s per Internet user)	3,799	4,277	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	14.5 259.2	15.6 275.2	6.9 14.3
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	209.2	31.6	14.5 5.8
Mobile-b'band, prepaid randset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		72.6	10.0
Trada			
Trade ICT goods exports (% of total goods exports)	0.0	0.0	5.7
ICT goods imports (% of total goods imports)	1.9	2.1	7.6
ICT service exports (% of total service exports)	5.3	19.0	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.04	0.06	0.26
Secure Internet servers (per million people)	3.8	10.3	7.4

Somalia

Sub-Saharan Africa

Low income

	Country	Country data		Lo inco ountry data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	10	11	638		
Urban population (% of total)	37	40	31		
GNI per capita, World Bank Atlas method (\$)			620		
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)			5.4		
Gross primary, secondary, and tertiary school enrollment (%)			60		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Private				
Level of competition (competition, partial comp., monopoly) International gateway(s)					
Mobile telephone service		 C			
Internet service		C			
Foreign ownership (not allowed, restricted, allowed)					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	В			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)					
Telecommunications investment (% of revenue)					
Sector performance					
Access Fixed-telephone subscriptions (per 100 people)	1.0	0.5	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	6.7	52.5	60.0		
Fixed-broadband subscriptions (per 100 people)	0.4	0.7	0.3		
Households with a computer (%)			4.8		
Households with Internet access at home (%)			7.1		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)	 1.3ª	 1.8ª	48.9 9.5		
Individuals using the Internet (%)	1.5"	1.04	9.0		
Quality Population covered by at least a 3G mobile network (%)	0		51		
International Internet bandwidth (bit/s per Internet user)	356	1,022	4,245		
Affordability					
Mobile-cellular sub-basket (\$ a month)		2.9	9.4		
Fixed-broadband sub-basket (\$ a month)		30.0	33.6		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		15.4	8.0		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		25.0	10.8		
Trade					
ICT goods exports (% of total goods exports)					
ICT goods imports (% of total goods imports)			3.4		
ICT service exports (% of total service exports)					
Applications	0.00	0.02	0.11		
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.00	0.02	1.5		
	0.1	0.1	1.5		

South Africa

Sub-Saharan Africa	Upper n	niddle i	ncome
	Count	ry data	Upper middle- income
	2010	2015	group 2015
Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	51 62 6,250 2.9 93 74	55 65 6,050 2.1 95 75	2,594 64 8,186 4.5 81
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	Yes Mixed P C C R ed) A	Yes Mixed M C C C R No	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	4.5 10.7		2.1 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	9.4 97.9 1.4 18.3ª 10.1	7.7 159.3 5.3 23.4ª 50.6ª	
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 24.0ª	3.4 79.7 51.9ª	2.3 173.1 52.1
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 202,453	98 147,630	69 26,098
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	23.3 27.4 19.4 30.3	7.1 12.9 7.8 6.7	8.5 15.5 7.7 11.1
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	1.2 9.2 13.2	1.6 7.8 16.9	15.7 14.4 25.7
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.31 61.6	<i>0.39</i> 130.0	0.37 34.7

194

South Sudan

Sub-Saharan Africa

Low income

	Countr	Country data		Lov inco country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	10	12	638		
Urban population (% of total)	18	19	31		
GNI per capita, World Bank Atlas method (\$)	1,060	790	620		
GDP growth, 2005-10 and 2010-15 (avg. annual %)		-11.1	5.4		
Adult literacy rate (% ages 15 and older)	27	32			
Gross primary, secondary, and tertiary school enrollment (%)			60		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Mixed				
Level of competition (competition, partial comp., monopoly)					
International gateway(s)					
Mobile telephone service Internet service					
Foreign ownership (not allowed, restricted, allowed)					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	 C	 C			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)		2.9			
Telecommunications investment (% of revenue)		21.1			
Sector performance					
Access Fixed-telephone subscriptions (per 100 people)	0.0	0.0	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	14.4	23.9			
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	0.3		
Households with a computer (%)	4.0 ^a	11.7			
Households with Internet access at home (%)	3.0ª	11.24			
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	4.3				
Domestic mobile traffic (minutes/subscription/month)	6.7	42.1	48.9		
Individuals using the Internet (%)	7.0ª	17.94	9.5		
Quality					
Population covered by at least a 3G mobile network (%)		204	51		
International Internet bandwidth (bit/s per Internet user)	4	28	4,245		
Affordability					
Mobile-cellular sub-basket (\$ a month)		7.0	9.4		
Fixed-broadband sub-basket (\$ a month)		7.7	33.6		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		20.3	8.0		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		42.9	10.8		
Trade					
ICT goods exports (% of total goods exports)					
ICT goods imports (% of total goods imports)			3.4		
ICT service exports (% of total service exports)		20.4			
Applications					
Online service index (0-1, 1=highest presence)	0.14	0.01	0.11		
Secure Internet servers (per million people)		0.2	1.5		

Spain

Europe & Central Asia

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	47	46	1,187
Urban population (% of total)	78		81
GNI per capita, World Bank Atlas method (\$)	32,130		41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.9 98	-0.4 98	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	104	109	
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)	0	0	
International gateway(s) Mobile telephone service	C C	C C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	А	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.5	1.8	2.5
Telecommunications investment (% of revenue)	14.7	24.8	18.8
Sector performance			
Access	40.7	40.0	11.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	43.7 111.3		41.2 124.5
Fixed-broadband subscriptions (per 100 people)	23.1	28.3	31.0
Households with a computer (%)	68.7	75.9	83.2
Households with Internet access at home (%)	59.1	78.7	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	115.8		195.9
Individuals using the Internet (%)	65.8	78.7	81.0
Quality Population covered by at least a 3G mobile network (%)	95	99	99
International Internet bandwidth (bit/s per Internet user)		105,006	
Affordability			
Mobile-cellular sub-basket (\$ a month)	47.0	31.6	14.2
Fixed-broadband sub-basket (\$ a month)	30.9	26.7	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	37.3	7.8	10.4
Mobile-b'band, postpaid computer-based, 1 GB ($\$$ a month)	31.1	14.4	14.4
Trade	-		
ICT goods exports (% of total goods exports)	2.2	1.1	9.5
ICT goods imports (% of total goods imports)	6.7	4.6	11.2
ICT service exports (% of total service exports)		27.1	32.0
Applications	0.77	0.04	0.07
Online service index (0-1, 1=highest presence)	0.77 230.9	0.94 362.5	0.67 1,194.6
Secure Internet servers (per million people)	230.9	302.3	1,194.0

Sri Lanka

South Asia

Lower middle income

			Lower middle-
	Country	y data	income group 2015
Economic and social context			
Population (millions)	20	21	2,927
Urban population (% of total)	18	18	39
GNI per capita, World Bank Atlas method (\$)	2,430	3,800	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	6.1	5.9	5.4
Adult literacy rate (% ages 15 and older)	91	93	
Gross primary, secondary, and tertiary school enrollment (%)	76	79	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	Р	Р	
Mobile telephone service	Р	Р	
Internet service	P	P	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	1.7	1.7	
Telecommunications investment (% of revenue)	33.4		
Sector performance			
Access	17.2	12.0	3.5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	83.6	112.0	90.5
Fixed-broadband subscriptions (per 100 people)	1.1	3.1	1.9
Households with a computer (%)	12.3ª	24.2ª	
Households with Internet access at home (%)	5.9ª	18.1ª	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	10.0	9.6	7.5
Domestic mobile traffic (minutes/subscription/month)	160.5	158.7	152.0
Individuals using the Internet (%)	12.0	30.0ª	28.6
Quality			
Population covered by at least a 3G mobile network (%)	72	74ª	
International Internet bandwidth (bit/s per Internet user)	3,332	13,886	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	1.9	0.9	6.9
Fixed-broadband sub-basket (\$ a month)	5.0	4.1	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	2.9	1.4	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	2.9	1.6	10.0
Trade			
ICT goods exports (% of total goods exports)	0.5	0.6	5.7
ICT goods imports (% of total goods imports)	2.9	3.4	7.6
ICT service exports (% of total service exports)	24.0	13.2	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.26	0.65	0.26
Secure Internet servers (per million people)	4.6	13.8	7.4
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The Little Data Book on Information and Communication Technology 2016

St. Kitts and Nevis

Latin America & Caribbean

High income

	Count	ry data	High- income
	2010	2015	group 2015
Economic and social context Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	0.05 32 12,650 0.7 75	32	1,187 81 41,366 1.5 95
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	No Private No		
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	6.2 12.1	4.8 6.3	2.5 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	37.8 152.8 27.9 64.0 56.5		
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	63.5 32.3 63.0		 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 81,863	100 131,203	99 134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.1 36.7 	19.0 35.2 13.7 14.4	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	19.3 4.5 14.7	 10.7	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.10 1,260.7	0.13 449.9	0.67 1,194.6

St. Lucia

Latin America & Caribbean

Upper middle income

			Upper middle- income	
	Count	ry data 2015	group	
	2010	2015	2015	
Economic and social context	0.10	0.18	2 504	
Population (millions) Urban population (% of total)	0.18 18	19	2,594 64	
GNI per capita, World Bank Atlas method (\$)	6,600	7,390	8,186	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.6	0.2	4.5	
Adult literacy rate (% ages 15 and older)				
Gross primary, secondary, and tertiary school enrollment (%)			81	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Private	Private		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	С	С		
Mobile telephone service Internet service	C C	C C		
Foreign ownership (not allowed, restricted, allowed)	A	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	7.3	6.3	2.1	
Telecommunications investment (% of revenue)	7.8	20.4	18.8	
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)	21.1	18.9	17.3	
Mobile-cellular telephone subscriptions (per 100 people)	111.7	101.5	105.1	
Fixed-broadband subscriptions (per 100 people)	11.6	15.4	15.4	
Households with a computer (%)	38.6	41.1ª	48.7	
Households with Internet access at home (%)	26.5	39.7ª	52.2	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	30.1		2.3	
Domestic mobile traffic (minutes/subscription/month)	102.2 43.3	75.1 52.4ª	173.1 52.1	
Individuals using the Internet (%)	43.3	JZ.4ª	52.1	
Quality	0	05		
Population covered by at least a 3G mobile network (%)	0 52.075	65ª		
International Internet bandwidth (bit/s per Internet user)	52,075	134,277	26,098	
Affordability				
Mobile-cellular sub-basket (\$ a month)	22.2	27.5	8.5	
Fixed-broadband sub-basket (\$ a month)	29.3	36.2 14.8	15.5 7.7	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		14.0	11.1	
Trade ICT goods exports (% of total goods exports)	4.2	11.7	15.7	
ICT goods imports (% of total goods imports)	3.9		14.4	
ICT service exports (% of total service exports)	8.6		25.7	
Annlications				
Applications Online service index (0-1, 1=highest presence)	0.11	0.24	0.37	
Secure Internet servers (per million people)	124.0	86.5	34.7	
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St. Martin (French part)

Latin America & Caribbean

High income

	Country data		High- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	0.03	0.03	1,187
Urban population (% of total)			81
GNI per capita, World Bank Atlas method (\$)			41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)			1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	 	 	41.2 124.5 31.0 83.2 85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)			 195.9
Individuals using the Internet (%)			81.0
Quality			
Population covered by at least a 3G mobile network (%)			99
International Internet bandwidth (bit/s per Internet user)			134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 	 	14.2 25.2 10.4 14.4
Trade			
ICT goods exports (% of total goods exports)			9.5
ICT goods imports (% of total goods imports)			11.2
ICT service exports (% of total service exports)			32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 98.0	 31.5	0.67 1,194.6

St. Vincent and the Grenadines

Latin America & Caribbean

Upper middle income

			Upper middle-
		ry data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.11	0.11	2,594
Urban population (% of total)	49	51	64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	6,030 1.4	6,670 1.0	8,186 4.5
Adult literacy rate (% ages 15 and older)	1.4	1.0	4.5
Gross primary, secondary, and tertiary school enrollment (%)			81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)	0	0	
International gateway(s)	C C	C C	
Mobile telephone service Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	7.3	6.1	2.1
Telecommunications investment (% of revenue)	8.2	23.1	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	19.9	22.7	17.3
Mobile-cellular telephone subscriptions (per 100 people)	120.6	103.7	105.1
Fixed-broadband subscriptions (per 100 people)	11.4	15.5	15.4
Households with a computer (%)	50.5ª	61.8	48.7
Households with Internet access at home (%)	37.1ª	49.44	52.2
Usage	04.7	21.0	0.0
Int'l. voice traffic, total (minutes/subscription/month)	34.7 82.2	31.8 92.0	2.3 173.1
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	33.7ª		
Quality			
Population covered by at least a 3G mobile network (%)	0	100	69
International Internet bandwidth (bit/s per Internet user)	81,434	194,268	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.8	25.8	8.5
Fixed-broadband sub-basket (\$ a month)	33.6	40.4	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		14.8 18.5	7.7 11.1
Trade			
ICT goods exports (% of total goods exports)	1.4		15.7
ICT goods imports (% of total goods imports)	3.7		14.4
ICT service exports (% of total service exports)	26.6	25.1	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.13	0.16	0.37
Secure Internet servers (per million people)	109.8	210.1	34.7

The Little Data Book on Information and Communication Technology 2016

Sudan

Sub-Saharan Africa

Lower middle income

	Country	v data	Lower middle- income	
	2010	2015	group 2015	
Economic and social context				
Population (millions) ^b	36	40	2,927	
Urban population (% of total) ^b	33	34	39	
GNI per capita, World Bank Atlas method (\$)	1,200	1,840	2,035	
GDP growth, 2005-10 and 2010-15 (avg. annual %) ^c	7.3	1.2	5.4	
Adult literacy rate (% ages 15 and older) ^b		59		
Gross primary, secondary, and tertiary school $enrollment^b(\%)$	47	48	68	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	Р	Р		
Mobile telephone service	Р	Р		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	R	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed	ed) No	С		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	3.3	1.6		
Telecommunications investment (% of revenue)	291.8	39.7		
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	1.3	0.3	3.5	
Mobile-cellular telephone subscriptions (per 100 people)	41.5	70.5	90.5	
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	1.9	
Households with a computer (%)	9.0ª 15.0ª	17.9ª 33.5ª		
Households with Internet access at home (%)	15.04	33.0	24.3	
Usage	6.2	6.7	7.5	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	55.3	76.9		
Individuals using the Internet (%)	16.7ª	26.6		
Quality Population covered by at least a 3G mobile network (%)	42	46		
International Internet bandwidth (bit/s per Internet user)	1,829	2,189	10,372	
Affordability				
Mobile-cellular sub-basket (\$ a month)	7.1	3.2	6.9	
Fixed-broadband sub-basket (\$ a month)	28.6	4.1	14.3	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	5.6	3.3	5.8	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) $% \left(\left({\left({\left({\left({\left({\left({\left({\left({\left({$	18.2	9.1	10.0	
Trade				
ICT goods exports (% of total goods exports)	0.0		5.7	
ICT goods imports (% of total goods imports)	4.0		7.6	
ICT service exports (% of total service exports)	31.0	5.7	48.0	
Applications				
Online service index (0-1, 1=highest presence)	0.16	0.29	0.26	
Secure Internet servers (per million people)	0.0	0.1	7.4	

Suriname

Latin America & Caribbean

Upper middle income

Country data Information 2010 2015 2015 2010 2015 2015 2010 2015 2015 2010 2015 2015 2010 2015 2015 2010 2015 2015 2010 2016 2,594 2010 2017 9,300 2010 2017 9,300 2010 2017 2,88 2010 2017 9,300 2010 2017 9,300 2010 2017 9,596 2010 2017 9,596 2010 2017 Yes 2010 2017 Yes 2010 2017 Yes 2010 2018 Yes 2010 2018 Yes 2010 2018 Yes 2010 2018 Yes 2011 Yes Yes 2011 Yes Yes				Upper middle- income
Economic and social context 0.52 0.54 2,594 Population (millions) 0.52 0.54 2,594 Urban population (% of total) 66 66 64 GNI per capita, World Bank Atlas method (\$) 7,780 9,300 8,186 GOP growth, 2005-10 and 2010-15 (avg. annual %) 4.2 2.8 4.5 Adult literacy rate (% ages 15 and older) 95 96 81 Sector structure Sector structure Public Public 1.0 81 Sector structure C C C C International gateway(s) C C C Internet service C C C Internet service C			-	group
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Urban population (% of total) 66 66 64 GNI per capita, World Bank Atlas method (\$) 7,780 9,300 8,186 GDP growth, 2005-10 and 2010-15 (avg. annual %) 4.2 2.8 4.5 Adult literacy rate (% ages 15 and older) 95 96 Gross primary, secondary, and tertiary school enrollment (%) 81 Sector structure Sector structure Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition, competition, partial comp., monopoly) International gateway(s) C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.6 2.1 15.5 17.3 Mobile-cellular telephone subscriptions (per 100 people) 16.2 15.5 17.3 Mobile-cellular telephone subscription (per 100 people) 9.3 180.7 10		0.52	0.54	2 594
GNI per capita, World Bank Atlas method (\$)7,7809,3008,186GDP growth, 2005-10 and 2010-15 (avg. annual %)4.22.84.5Adult literacy rate (% ages 15 and older)9596Gross primary, secondary, and tertiary school enrollment (%)81Sector structureSeparate telecommunications/ICT regulatorYesYesSeparate telecommunications/ICT regulatorYesYesYesInternational gateway(s)CCCMobile telephone serviceCCCInternational gateway(s)RRRReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityTelecommunications revenue (% of GDP)5.6Telecommunications revenue (% of GDP)5.62.1Telecommunications revenue (% of GDP)9.3180.7105.1Tisce-broadband subscriptions (per 100 people)9.915.444.2Households with a computer (%)29.045.2ª48.7Households with a computer (%)29.02.32.3Domestic mobile traffic, total (minutes/subscription/month)29.02.3Domestic mobile traffic (minutes/subscription/month)29.02.3Domestic mobile traffic (minutes/subscription/month)29.02.3Domestic mobile traffic (minutes/subscription/month)29.02.3Domestic mobile traffic (minutes/subscription/month)29.0<				,
Adult literacy rate (% ages 15 and older) 95 96 81 Gross primary, secondary, and tertiary school enrollment (%) 81 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Internet service C C C C C C Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.6 2.1 Telecommunications investment (% of revenue) 8.8 18.8 Sector performance Access 16.2 15.5 17.3 Mobile cellular telephone subscriptions (per 100 people) 16.2 15.4 40.24.24 52.2 Households with a computer (%) 29.0 45.22 48.7 48.7 House		7,780	9,300	8,186
Gross primary, secondary, and tertiary school enrollment (%) 81 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Mobile telephone service C C C C C Internet service C C C C C Foreign ownership (not allowed, restricted, allowed) R R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No No No Sector efficiency and capacity Telecommunications investment (% of GDP) 5.6 2.1 Telecommunications investment (% of revenue) 8.8 18.8 Sector performance Access 15.4 40.2 52.2 48.7 Households with a computer (%) 29.0 45.2 48.7 40.2 52.2 Usage 17.3.1 Individuals using the Inte	GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.2	2.8	4.5
Sector structure Yes Yes Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) C C Internet service C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.6 Telecommunications investment (% of revenue) 8.8 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 16.2 15.5 17.3 Mobile-cellular telephone subscriptions (per 100 people) 29.0 45.2 ^a 48.7 Households with Internet access at home (%) 14.4 44.2 ^a 52.2 Usage Int'. voice traffic, total (minutes/subscription/month) 29.0 2.3 Domestic mobile traffic (minutes/subscription/month) 29.0 2.3 Dome		95	96	
Separate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorPublicPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityTelecommunications revenue (% of GDP)5.6.Telecommunications revenue (% of GDP)5.6.2.1Telecommunications investment (% of revenue)8.8.18.8Sector performanceAccessNoNoAccessNobile-cellular telephone subscriptions (per 100 people)16.215.517.3Households with a computer (%)29.045.2ª48.7Households with a computer (%)29.0.2.3Domestic mobile traffic (minutes/subscription/month)29.0.2.3Domestic mobile traffic (minutes/subscription/month)69.8173.1Individuals using the Internet (%)1280ª69International Internet bandwidth (bit/s per Internet user)3,09951,16426,098AffordabilityMobile-cellular sub-basket (\$ a month)42.137.115.5International Internet bandwidth (bit/s per Internet user)3,09951,16426,098AffordabilityMobile-cellular sub-basket	Gross primary, secondary, and tertiary school enrollment (%)			81
Status of main fixed-line telephone operatorPublicPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternational gateway(s)CCCMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityTelecommunications revenue (% of GDP)5.6Telecommunications investment (% of revenue)8.818.8Sector performanceAccessAccessFixed-telephone subscriptions (per 100 people)16.215.517.3Mobile-cellular telephone subscriptions (per 100 people)9.9180.7105.1Fixed-broadband subscriptions (per 100 people)29.045.2ª48.7Households with a computer (%)29.045.2ª48.7Households with Internet access at home (%)14.444.2ª52.2UsageIntrinsition (minutes/subscription/month)69.817.3.1Individuals using the Internet (%)31.642.8ª52.1QualityPopulation covered by at least a 3G mobile network (%)1280ª69International Internet bandwidth (bit/s per Internet user)3,09951,16426,098AffordabilityMobile-Cellular sub-basket (\$ a month)42.137.115.5Mobile-Celband, prepaid handset-base	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s) C C International gateway(s) C C C Mobile telephone service C C C Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 5.6 . 2.1 Telecommunications revenue (% of foP) 5.6 . 2.1 Telecommunications investment (% of revenue) 8.8 . 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 16.2 15.5 17.3 Mobile-cellular telephone subscriptions (per 100 people) 2.9 9.5 15.4 Households with a computer (%) 29.0 45.2ª 48.7 Households with Internet access at home (%) 14.4 44.2ª 52.2 Usage Int'l. voice traffic, (minutes/subscription/month) 29.0 . 2.3 Domestic mobile traffic (minutes/subscription/month) 29.0 . 2.3 Domestic mobile traffic (minutes/subscrip	Separate telecommunications/ICT regulator	Yes	Yes	
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Telecommunications revenue (% of GDP) 5.6 2.1 Telecommunications investment (% of revenue) 8.8 18.8 Sector performance Access 18.7 105.1 Fixed-telephone subscriptions (per 100 people) 16.2 15.5 17.3 Mobile-cellular telephone subscriptions (per 100 people) 2.9 9.5 15.4 Households with a computer (%) 29.0 45.2ª 48.7 Households with Internet access at home (%) 14.4 44.2ª 52.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 29.0 2.3 Domestic mobile traffic (minutes/subscription/month) 29.0 173.1 Individuals using the Internet (%) 31.6 42.8ª 52.1 Quality Population covered by at least a 3G mobile network (%) 12 80ª 69 International Internet bandwidth (bit/s per Internet user) 3,099 51,164 26,098 Affordability Mobile-cellular sub-basket (\$ a month) 44.3 17.0 8.5 Fixed-broadband sub-basket (\$ a month) 14.3 17.0 8.5 Fixed-broadband s		NO	110	
Telecommunications investment (% of revenue) 8.8 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 16.2 15.5 17.3 Mobile-cellular telephone subscriptions (per 100 people) 9.3 180.7 105.1 Fixed-broadband subscriptions (per 100 people) 2.9 9.5 15.4 Households with a computer (%) 29.0 45.2ª 48.7 Households with Internet access at home (%) 14.4 44.2ª 52.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 29.0 2.3 Domestic mobile traffic (minutes/subscription/month) 29.0 173.1 Individuals using the Internet (%) 31.6 42.8ª 52.1 Quality Population covered by at least a 3G mobile network (%) 12 80ª 69 International Internet bandwidth (bit/s per Internet user) 3,099 51,164 26,098 Affordability Mobile-cellular sub-basket (\$ a month) 14.3 17.0 8.5 Fixed-broadband sub-basket (\$ a month) 14.3 17.0		5.0		0.1
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Fixed-broadband subscriptions (per 100 people)2.99.515.4Households with a computer (%)29.045.2ª48.7Households with Internet access at home (%)14.444.2ª52.2UsageInt'l. voice traffic, total (minutes/subscription/month)29.02.3Domestic mobile traffic (minutes/subscription/month)69.8173.1Individuals using the Internet (%)31.642.8ª52.1QualityPopulation covered by at least a 3G mobile network (%)1280ª69International Internet bandwidth (bit/s per Internet user)3,09951,16426,098AffordabilityMobile-cellular sub-basket (\$ a month)14.317.08.5Fixed-broadband sub-basket (\$ a month)42.137.115.5Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)29.625.47.7Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)3.04.214.4ICT goods exports (% of total goods exports)0.10.015.7ICT goods imports (% of total goods imports)3.04.214.4ICT service exports (% of total service exports)44.224.525.7Applications0.020.140.37Online service index (0-1, 1=highest presence)0.020.140.37				
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Mobile-cellular sub-basket (\$ a month) 14.3 17.0 8.5 Fixed-broadband sub-basket (\$ a month) 42.1 37.1 15.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 29.6 25.4 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 37.9 21.2 11.1 Trade ICT goods exports (% of total goods exports) 0.1 0.0 15.7 ICT goods imports (% of total goods imports) 3.0 4.2 14.4 ICT service exports (% of total service exports) 44.2 24.5 25.7 Applications 0.02 0.14 0.37	international internet bandwidth (bit/s per internet user)	3,099	51,104	20,098
Fixed-broadband sub-basket (\$ a month) 42.1 37.1 15.5 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 29.6 25.4 7.7 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 37.9 21.2 11.1 Trade ICT goods exports (% of total goods exports) 0.1 0.0 15.7 ICT goods imports (% of total goods imports) 3.0 4.2 14.4 ICT service exports (% of total service exports) 44.2 24.5 25.7 Applications 0.02 0.14 0.37				
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ICT goods exports (% of total goods exports) 0.1 0.0 15.7 ICT goods imports (% of total goods imports) 3.0 4.2 14.4 ICT service exports (% of total service exports) 44.2 24.5 25.7 Applications 0.02 0.14 0.37	Mobile-b balld, postpald computer-based, 1 GB (\$ a month)	57.9	21.2	11.1
ICT goods imports (% of total goods imports) 3.0 4.2 14.4 ICT service exports (% of total service exports) 44.2 24.5 25.7 Applications 0.02 0.14 0.37		~ /		
ICT service exports (% of total service exports) 44.2 24.5 25.7 Applications 0.02 0.14 0.37				
Applications 0.02 0.14 0.37 Online service index (0-1, 1=highest presence) 0.02 0.14 0.37				
Online service index (0-1, 1=highest presence)0.020.140.37	ICT SERVICE EXPORTS (% OF TOTAL SERVICE EXPORTS)	44.2	24.5	25.7
Secure Internet servers (per million people) 21.2 81.0 34.7				
	Secure Internet servers (per million people)	21.2	81.0	34.7

Swaziland

Sub-Saharan Africa

Lower middle income

Sub-Sanaran Africa	Lower m	idale i	ncome
	Country		Lower middle- income group
	2010	2015	2015
Economic and social context			
Population (millions)	1	1	2,927
Urban population (% of total)	21	21	39
GNI per capita, World Bank Atlas method (\$)	2,600	3,230	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.4	2.4	5.4
Adult literacy rate (% ages 15 and older)	83	87	
Gross primary, secondary, and tertiary school enrollment (%)	67	67	68
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	М	
Mobile telephone service	М	М	
Internet service	Р	Р	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) B	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.0		
Telecommunications investment (% of revenue)	17.5		
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	4.4	3.3	3.5
Mobile-cellular telephone subscriptions (per 100 people)	60.8	73.2	90.5
Fixed-broadband subscriptions (per 100 people)	0.3	0.5	1.9
Households with a computer (%)	8.3ª	19.8	
Households with Internet access at home (%)	6.2ª	22.3	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	38.0		7.5
Domestic mobile traffic (minutes/subscription/month)	36.5		152.0
Individuals using the Internet (%)	11.0	30.44	28.6
Quality			
Population covered by at least a 3G mobile network (%)	0		
International Internet bandwidth (bit/s per Internet user)	1,215	2,053	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	25.5	12.1	6.9
Fixed-broadband sub-basket (\$ a month)	874.6	49.1	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		17.9	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		31.3	10.0
Trade			
ICT goods exports (% of total goods exports)			5.7
ICT goods imports (% of total goods imports)			7.6
ICT service exports (% of total service exports)	29.0	 54.5	48.0
Applications			
Applications Online service index (0-1, 1=highest presence)	0.00	0 13	0.26
			7.4
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.00 10.1	0.13 15.5	

Sweden

Europe & Central Asia

High income

201020152015201020152010201520152010201520152010201520152010201520102015201520152016		Country data		Hig Country data		
Population (millions) 9 10 1,187 Urban population (% of total) 85 86 81 GNI per capital, World Bank Atlas method (\$) 53,900 57,810 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 0.9 1.7 1.5 Adut literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 93 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C C C C Mobile telephone service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector performance Access Access Fixed-telephone subscriptions (per 100 people) 17.2 130.4 Households with acomputer (%) Mobile cellulura telephone sub		2010	2015			
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GNI per capita, World Bank Atlas method (\$) 53,900 57,810 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 0.9 1.7 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 93 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Mixed Mixed Level of competition, partial comp., monopoly) International gateway(s) C C C International gateway(s) A A Reg. treatment of VolP (banned, closed, no framework, allowed) A A Reg. treatment of VolP (banned, closed, no framework, allowed) A No Sector performance Access Fixed-treatelephone subscriptions (per 100 people) 117.2 130.4 124.5 Fixed-broadband subscriptions (per 100 people) 13.5 20.6 18.8 32.2 Felecommunications revenue (% of GDP) 12.2 130.4 124.5 Fixed-broadband subscription (people) 17.2 130.4 124.5		-		,		
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Gross primary, secondary, and tertiary school enrollment (%) 93 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Mixed Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Mobile telephone service C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 1.5 1.3 2.5 Telecommunications investment (% of revenue) 13.5 20.6 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 50.5 36.7 41.2 Mobile-cellular telephone subscriptions (per 100 people) 32.0 36.1 31.0 Households with a computer (%) 89.5 88.3 83.2 83.2 Households with internet access at home (%) 88.3 91.0 85.0 Usage Int1. voice traffic, total (minutes/subscriptio	GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.9	1.7	1.5		
Sector structure Yes Yes Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) Internetservice C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No Sector efficiency and capacity Telecommunications investment (% of GDP) 1.5 1.3 2.5 Telecommunications investment (% of Fevenue) 13.5 20.6 18.8 Sector performance Access A 12.4 124.5 Fixed-telephone subscriptions (per 100 people) 50.5 36.7 41.2 Mobile-cellular telephone subscriptions (per 100 people) 117.2 130.4 124.5 Fixed-broadband subscriptions (per 100 people) 32.0 36.1 31.0 Households with Internet access at home (%) 88.3 91.0 85.0 Usage Int't voice traffic (ninutes/subscription/month)	Adult literacy rate (% ages 15 and older)					
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Applications Online service index (0-1, 1=highest presence) 0.53 0.70 0.67						
Online service index (0-1, 1=highest presence)0.530.700.67	ICT service exports (% of total service exports)	46.0	45.6	32.0		
	Applications					
Secure Internet servers (per million people) 1,268.4 1,755.4 1,194.6						
	Secure Internet servers (per million people)	1,268.4	1,755.4	1,194.6		

Switzerland

Europe & Central Asia

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context	8	8	1 107
Population (millions) Urban population (% of total)	0 74	8 74	1,187 81
GNI per capita, World Bank Atlas method (\$)	77,360		41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.0		1.5
Adult literacy rate (% ages 15 and older)			
Gross primary, secondary, and tertiary school enrollment (%)	86	88	95
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	C	
Mobile telephone service Internet service	C C	C C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.3	2.3	2.5
Telecommunications investment (% of revenue)	15.2		2.5 18.8
	1012	2012	10.0
Sector performance			
Access	62.7	50.3	41.2
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	123.2		41.2 124.5
Fixed-broadband subscriptions (per 100 people)	37.2	44.8	31.0
Households with a computer (%)	83.7		
Households with Internet access at home (%)	80.7	84.7ª	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	82.3	80.9	195.9
Individuals using the Internet (%)	83.9	88.0	81.0
Quality			
Population covered by at least a 3G mobile network (%)	96	100	99
International Internet bandwidth (bit/s per Internet user)	152,211	275,957	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	45.2	34.3	14.2
Fixed-broadband sub-basket (\$ a month)	32.7	35.3	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	22.4	19.7	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	40.5	40.5	14.4
Trade			
ICT goods exports (% of total goods exports)	1.6		9.5
ICT goods imports (% of total goods imports)	5.9		11.2
ICT service exports (% of total service exports)	21.5	29.5	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.44	0.50	0.67
Secure Internet servers (per million people)	1,867.6	3,100.0	1,194.6

Syrian Arab Republic

Middle East & North Africa

Lower middle income

			Lower middle- income
	Country 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	21	19	2,927
Urban population (% of total)	56	58	39
GNI per capita, World Bank Atlas method (\$)			2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)			5.4
Adult literacy rate (% ages 15 and older)	 73	86 54	 68
Gross primary, secondary, and tertiary school enrollment (%)	15	54	00
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)		М	
International gateway(s) Mobile telephone service	 P	NI P	
Internet service	P	'	
Foreign ownership (not allowed, restricted, allowed)	No	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		В	
Sector efficiency and capacity Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)	17.1	5.1	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	18.9	18.3	3.5
Mobile-cellular telephone subscriptions (per 100 people)	54.3	62.4	90.5
Fixed-broadband subscriptions (per 100 people)	0.3	3.1	1.9
Households with a computer (%)	40.4ª	49.9ª	19.3
Households with Internet access at home (%)	35.2ª	42.3	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	11.7	13.8	7.5
Domestic mobile traffic (minutes/subscription/month)	83.3	64.6	152.0
Individuals using the Internet (%)	20.7	30.04	28.6
Quality			
Population covered by at least a 3G mobile network (%)	1	70	
International Internet bandwidth (bit/s per Internet user)	1,287	3,146	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	21.3	95.3	6.9
Fixed-broadband sub-basket (\$ a month)	21.6	80.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		267.3	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	89.1	133.6	10.0
Trade			
ICT goods exports (% of total goods exports)	0.0		5.7
ICT goods imports (% of total goods imports)	2.2		7.6
ICT service exports (% of total service exports)	2.5		48.0
Annellandlana			
ADDIICATIONS			
Applications Online service index (0-1, 1=highest presence)	0.04	0.16	0.26

Tajikistan

Europe & Central Asia

Lower middle income

Europe & Central Asia	Lower m		ncome
	Countr	y data	Lower middle- income group
	2010	2015	2015
Economic and social context			
Population (millions)	8	8	2,927
Urban population (% of total)	27	27	39
GNI per capita, World Bank Atlas method (\$)	730	1,240	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	6.6	6.8	5.4
Adult literacy rate (% ages 15 and older)		100	
Gross primary, secondary, and tertiary school enrollment (%)	69	70	68
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Mixed	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allow		A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	4.8	5.3	3.5
Mobile-cellular telephone subscriptions (per 100 people)	77.9	98.6	90.5
Fixed-broadband subscriptions (per 100 people)	0.1	0.1	1.9
Households with a computer (%) Households with Internet access at home (%)	2.9ª 2.3ª	11.5ª 8.8ª	
Households with internet access at nome (%)	2.3"	0.0	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)	 11.6ª	 19.0ª	152.0 28.6
Individuals using the Internet (%)	11.04	19.04	20.0
Quality			
Population covered by at least a 3G mobile network (%)			
International Internet bandwidth (bit/s per Internet user)	1,249	4,283	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	8.5	4.3	6.9
Fixed-broadband sub-basket (\$ a month)	362.5	11.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	15.4	11.1	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.4	11.1	10.0
Trade			
ICT goods exports (% of total goods exports)			5.7
			7.6
ICT goods imports (% of total goods imports)			
	 75.1	6.0	48.0
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)		6.0	48.0
ICT goods imports (% of total goods imports)		6.0 0.06	48.0 0.26

Tanzania

Sub-Saharan Africa

Low income

	Country data		Low- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	46	53	638
Urban population (% of total)	28	32	31
GNI per capita, World Bank Atlas method (\$)	700	910	620
GDP growth, 2005-10 and 2010-15 (avg. annual %)	6.2	6.8	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	68 56	80 52	 60
dioss printary, secondary, and tertiary school enrollment (%)	50	52	
Sector structure		V	
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly) International gateway(s)	М	С	
Mobile telephone service	C	C	
Internet service	c	C	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	No	
Sector officiancy and conscity			
Sector efficiency and capacity Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.4	0.3	0.9
Mobile-cellular telephone subscriptions (per 100 people)	46.7	75.9	60.0
Fixed-broadband subscriptions (per 100 people)	0.0	0.2	0.3
Households with a computer (%)	2.6ª	4.0ª	4.8
Households with Internet access at home (%)	2.1ª	4.5ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	0.7	1.9	
Domestic mobile traffic (minutes/subscription/month)	56.7	108.9	48.9
Individuals using the Internet (%)	2.9ª	5.4ª	9.5
Quality			
Quality Population covered by at least a 3G mobile network (%)	70	85	51
International Internet bandwidth (bit/s per Internet user)	2,652	4,107	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.4	6.7	9.4
Fixed-broadband sub-basket (\$ a month)	31.3	22.6	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	5.1	7.5	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		4.5	10.8
Trade			
ICT goods exports (% of total goods exports)	0.4	0.4	
ICT goods imports (% of total goods imports)	3.8	3.1	3.4
ICT service exports (% of total service exports)	12.5	10.3	
Applications			
Online service index (0-1, 1=highest presence)	0.17	0.30	0.11
Secure Internet servers (per million people)	0.4	2.0	1.5
v · · · · · · · · · ·			

Thailand

East Asia & Pacific

Upper middle income

			Upper middle-
	Country data gro		income group 2015
	2010	2015	2015
Economic and social context	07		0.504
Population (millions)	67	68 50	2,594
Urban population (% of total)	44	5,620	64 8,186
GNI per capita, <i>World Bank Atlas</i> method (\$)	4,610 3.3	3.0	0,100 4.5
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	3.3 96	3.0 94	4.5
Gross primary, secondary, and tertiary school enrollment (%)	78	54 79	
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	Р	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed) A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.1	2.3	2.1
Telecommunications investment (% of revenue)	17.3	22.3	18.8
Sector performance			
Access	10.2	7.0	17.0
Fixed-telephone subscriptions (per 100 people)	10.3	7.9 125.8	17.3 105.1
Mobile-cellular telephone subscriptions (per 100 people)	108.0 4.9	9.2	105.1
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	22.8	9.2 29.5	48.7
Households with Internet access at home (%)	11.4	52.2	52.2
	11.4	JZ.Z	JZ.Z
Usage Int'l. voice traffic, total (minutes/subscription/month)	1.4	1.5	2.3
Domestic mobile traffic (minutes/subscription/month)	43.1	81.2	173.1
Individuals using the Internet (%)	22.4	39.3	52.1
Quality			
Population covered by at least a 3G mobile network (%)		97	69
International Internet bandwidth (bit/s per Internet user)	12,791	64,907	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	8.7	4.5	8.5
Fixed-broadband sub-basket (\$ a month)	18.9	18.7	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		5.8	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		5.8	11.1
Trade			
ICT goods exports (% of total goods exports)	18.9	16.0	
ICT goods imports (% of total goods imports)	14.2	12.6	14.4
ICT service exports (% of total service exports)	20.5	15.4	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.33	0.44	0.37
Secure Internet servers (per million people)	13.7	30.4	34.7

Timor-Leste

East Asia & Pacific

Lower middle income

			Lower middle- income
	Country	y data 2015	group 2015
Economic and social context			
Population (millions)	1	1	2,927
Urban population (% of total)	30	33	39
GNI per capita, World Bank Atlas method (\$)	2,770	1,920	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	9.5	5.4	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	58 82	64	 68
Sector structure	No	Yes	
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	110	Mixed	
Level of competition (competition, partial comp., monopoly)		WINCO	
International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	 B	 C	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	6.1	6.8	
Telecommunications investment (% of revenue)	28.6		
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	0.3 43.8 0.0 2.0 0.7	0.2 117.4 0.1 18.9 21.7	90.5 1.9 19.3
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 36.8 0.2ª	 94.5 13.4	
Quality Population covered by at least a 3G mobile network (%)		96	
International Internet bandwidth (bit/s per Internet user)	25,145	2,546	
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	16.6 99.0 99.0	14.0 49.0 10.0 12.5	
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)		11.0 6.4	
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.13 0.9	0.20 3.2	0.26

The Little Data Book on Information and Communication Technology 2016

Togo

Sub-Saharan Africa

Low income

	Country	Country data		Country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	6	7	638		
Urban population (% of total)	38	40	31		
GNI per capita, World Bank Atlas method (\$)	450	540	620		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.0	5.0	5.4		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	60 72	67 	 60		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)		_			
International gateway(s)	Р	P			
Mobile telephone service	C C	C C			
Internet service Foreign ownership (not allowed, restricted, allowed)	R	R			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	No			
Sector efficiency and capacity	9.9	8.5			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	9.9 30.6	8.5 10.1			
	30.0	10.1			
Sector performance					
Access	1.0	0.7	0.0		
Fixed-telephone subscriptions (per 100 people)	1.0 41.3	0.7 64.9	0.9 60.0		
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	41.3 0.4	04.9	0.3		
Households with a computer (%)	0.4 2.1ª	0.9 3.4ª			
Households with Internet access at home (%)	1.0	6.2ª			
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	8.8	6.3			
Domestic mobile traffic (minutes/subscription/month)	21.0	30.8	48.9		
Individuals using the Internet (%)	3.0ª	7.1ª	9.5		
Quality					
Population covered by at least a 3G mobile network (%)	0	50	51		
International Internet bandwidth (bit/s per Internet user)	7,337	7,310	4,245		
Affordability		40.0			
Mobile-cellular sub-basket (\$ a month)	20.9	13.3 37.7	9.4 33.6		
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	165.6	8.5	33.0 8.0		
Mobile-b'band, prepaid randset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 30.9	8.5	10.8		
Trade	0.0	0.0			
ICT goods exports (% of total goods exports)	0.2 5.1	0.0 1.3	 3.4		
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	23.2	1.5			
· · · · · · · · · · · · · · · · · · ·					
Applications	0.0-				
Online service index (0-1, 1=highest presence)	0.07	0.11	0.11		
Secure Internet servers (per million people)	1.9	6.3	1.5		

Tonga

East Asia & Pacific

Lower middle income

			Lower middle-
	Countr	y data	income
-	2010	2015	2015
Economic and social context			
Population (millions)	0.10	0.11	2,927
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	23 3.550	24 4,260	39 2.035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.2	4,200	2,033
Adult literacy rate (% ages 15 and older)	99	99	
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)	0	0	
International gateway(s) Mobile telephone service	C C	C C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	29.8	12.4	
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	52.2 1.1	65.6 1.9	
Households with a computer (%)	23.3ª	37.1	
Households with Internet access at home (%)	10.0ª	39.5	a 24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)			
Individuals using the Internet (%)	16.0ª	45.0	a 28.6
Quality			
Population covered by at least a 3G mobile network (%)		70	
International Internet bandwidth (bit/s per Internet user)	3,002	14,623	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	11.0	11.7	6.9
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	62.3	32.2 8.2	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		0.2	10.0
Trada			
Trade ICT goods exports (% of total goods exports)	0.0	0.8	5.7
ICT goods imports (% of total goods imports)	6.4	10.2	7.6
ICT service exports (% of total service exports)	9.4	13.0	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.07	0.35	0.26
			7.4

Trinidad and Tobago

Latin America & Caribbean

High income

	Count	ry data	High- income
	2010	2015	group 2015
Economic and social context Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	1 9 15,770 2.7 	1 8 18,600 1.1 99	1,187 81 41,366 1.5 95
Sector structure			
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	Yes Mixed P P A No	Yes Mixed C C C A No	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.5 8.7	2.5 9.2	2.5 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	22.1 142.6 12.3 53.1 ^a 29.0 ^a		41.2 124.5 31.0 83.2 85.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	20.9 225.6 48.5	18.4 175.4 69.2ª	 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	75 29,808	75 122,703	99 134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.7 12.5 21.3 15.4	16.5 21.8 26.9 8.8	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	0.1 3.1 6.5		9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.34 73.0	0.33 127.2	0.67 1,194.6

Tunisia

Middle East & North Africa

Lower middle income

			Lower middle-
	Countre 2010	y data 2015	income group 2015
	2010	2013	2015
Economic and social context	11	11	2 0 2 7
Population (millions) Urban population (% of total)	11 66	11 67	2,927 39
GNI per capita, World Bank Atlas method (\$)	4,170	3,970	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.6	1.7	5.4
Adult literacy rate (% ages 15 and older)	79	81	
Gross primary, secondary, and tertiary school enrollment (%)	78	80	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	P C	P C	
Mobile telephone service	C	C	
Internet service Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.4	3.4	
Telecommunications investment (% of revenue)	21.2	16.5	
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	12.1 104.5 4.5 19.1	8.4 129.9 4.3 38.7	
Households with Internet access at home (%)	11.4	36.14	24.3
Usage Int'l. voice traffic, total (minutes/subscription/month)	5.8 61.7	5.2 151.8	7.5 152.0
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	36.8	48.5ª	
Quality			
Population covered by at least a 3G mobile network (%)	65	94 22 012	 10 272
International Internet bandwidth (bit/s per Internet user)	13,086	33,812	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	10.0	3.4	6.9
Fixed-broadband sub-basket (\$ a month)	10.5	4.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	3.2	4.6	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.4	6.4	10.0
Trade	6.5	5.8	5.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	6.3	5.0	7.6
ICT service exports (% of total service exports)	8.2	10.1	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.48	0.64	0.26
Secure Internet servers (per million people)	14.1	13.2	7.4
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Turkey

Europe & Central Asia

Upper middle income

			Upper middle-	
	Country data		_ group	
Economic and social context				
Population (millions)	72	79	2.594	
Urban population (% of total)	71	73	2,354	
GNI per capita, World Bank Atlas method (\$)	9,960	9,950	8,186	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.3	4.1	4.5	
Adult literacy rate (% ages 15 and older)	93	96		
Gross primary, secondary, and tertiary school enrollment (%)	81	96	81	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)				
Mobile telephone service		Р		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	No	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) No	No		
Sector efficiency and capacity	2.0	1.0	2.1	
Telecommunications revenue (% of GDP)	2.0 17.3	1.9 16.8	2.1 18.8	
Telecommunications investment (% of revenue)	17.5	10.0	10.0	
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	22.5	15.0	17.3	
Mobile-cellular telephone subscriptions (per 100 people)	85.6	96.0	105.1	
Fixed-broadband subscriptions (per 100 people)	9.8	12.4	15.4	
Households with a computer (%)	44.2	55.6	48.7	
Households with Internet access at home (%)	41.6	69.5	52.2	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	5.6	5.8	2.3	
Domestic mobile traffic (minutes/subscription/month)	169.7	237.8	173.1	
Individuals using the Internet (%)	39.8	53.7	52.1	
Quality				
Population covered by at least a 3G mobile network (%)	0	95		
International Internet bandwidth (bit/s per Internet user)	13,577	59,034	26,098	
Affordability	40.0	40.0	0.5	
Mobile-cellular sub-basket (\$ a month)	43.9 19.2	18.2	8.5 15.5	
Fixed-broadband sub-basket (\$ a month)	19.2 16.2	8.8 5.1	15.5 7.7	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.2 11.1	5.1 7.3	11.1	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.1	1.3	11.1	
Trade	1.8	1.5	15.7	
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	1.8 4.5	5.1	15.7	
ICT service exports (% of total service exports)	4.5 2.0	1.0	14.4 25.7	
Annilestions				
Applications Online service index (0-1, 1=highest presence)	0.35	0.56	0.37	

Turkmenistan

Europe & Central Asia

Upper middle income

	pperm		Upper middle-
	Country	/ data	income
-	2010	2015	group 2015
Economic and social context			
Population (millions)	5	5	2,594
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	48 4,110	50 7,510	64 8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	10.5	10.5	4.5
Adult literacy rate (% ages 15 and older)		100	
Gross primary, secondary, and tertiary school enrollment (%)		61	81
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Public	Public	
International gateway(s)			
Mobile telephone service	С	С	
Internet service			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	 B	 B	
		0	
Sector efficiency and capacity			2.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			2.1 18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	10.3 63.4 0.0 7.0 ^a 4.0 ^a	12.1 145.9 0.1 	17.3 105.1 15.4 48.7 52.2
Usage Int'I. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 3.0ª	 15.04	2.3 173.1 52.1
Quality Population covered by at least a 3G mobile network (%)			69
International Internet bandwidth (bit/s per Internet user)	2,578		26,098
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 	4.9 14.6 8.6 15.7	8.5 15.5 7.7 11.1
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	 	 	15.7 14.4 25.7
Applications Online service index (0-1, 1-highest presence) Secure Internet servers (per million people)	0.03 0.2	0.09 0.7	0.37 34.7

Turks and Caicos Islands

Latin America & Caribbean

High income

	Countr	y data	High- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	0.03	0.03	1,187
Urban population (% of total)	90	92	81
GNI per capita, World Bank Atlas method (\$)			41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)			1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 95
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	11.9 	11.6 	41.2 124.5 31.0 83.2 85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)			81.0
Quality Population covered by at least a 3G mobile network (%)			99
International Internet bandwidth (bit/s per Internet user)			134,761
Affordability Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 	 	14.2 25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports)	1.7		9.5
ICT goods imports (% of total goods imports)	2.6		11.2
ICT service exports (% of total service exports)	2.0		32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 419.4	 291.2	0.67 1,194.6

Tuvalu

East Asia & Pacific

Upper middle income

			Upper middle-		
	Country	Country data		y data group	
	2010	2015	2015		
Economic and social context					
Population (millions)	0.01	0.01	2,594		
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	55 4,720	60 5,720	64 8,186		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	2.3	2.5	4.5		
Adult literacy rate (% ages 15 and older)					
Gross primary, secondary, and tertiary school enrollment (%)			81		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly) International gateway(s)					
Mobile telephone service					
Internet service	М	М			
Foreign ownership (not allowed, restricted, allowed)	R	R			
Reg. treatment of VoIP (banned, closed, no framework, allowed)					
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)			2.1		
Telecommunications investment (% of revenue)			18.8		
Sector performance					
Access	12.2	20.2	17.3		
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	12.2	40.3	105.1		
Fixed-broadband subscriptions (per 100 people)	2.4	10.1	15.4		
Households with a computer (%)	18.3ª		48.7		
Households with Internet access at home (%)	14.0ª		52.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)			2.3		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 25.0ª	 42.7ª	173.1 52.1		
individuals using the internet (%)	20.0-	42.1	J2.1		
Quality			69		
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 1,628		26,098		
	,		-,		
Affordability		20.4	0.5		
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		38.1 40.2	8.5 15.5		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		40.2	7.7		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			11.1		
Trade					
ICT goods exports (% of total goods exports)			15.7		
ICT goods imports (% of total goods imports)			14.4		
ICT service exports (% of total service exports)	10.3	10.7	25.7		
Applications					
Online service index (0-1, 1=highest presence)	0.01	0.04	0.37		
Secure Internet servers (per million people)	102.2		34.7		

Uganda

Sub-Saharan Africa

Low income

	Country data		Low- income group
	2010	2015	2015
Economic and social context			
Population (millions)	33	39	638
Urban population (% of total)	14	16	31
GNI per capita, World Bank Atlas method (\$)	550	670	620
GDP growth, 2005–10 and 2010–15 (avg. annual %)	8.1	5.0	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	73 67	74	 60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	С	
Mobile telephone service	C	С	
Internet service	C A	C A	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.1		
Telecommunications investment (% of revenue)	15.9		
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	1.0 37.7	0.8 50.4	0.9 60.0
Mobile-cellular telephone subscriptions (per 100 people)	0.0	0.3	0.3
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.0 2.2ª	0.3 6.7ª	
Households with Internet access at home (%)	1.9ª	7.2ª	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	65.2	60.9	48.9
Individuals using the Internet (%)	12.5	19.2ª	9.5
Quality Population covered by at least a 3G mobile network (%)	42	45	51
International Internet bandwidth (bit/s per Internet user)	849	4,633	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	13.4	6.1	9.4
Fixed-broadband sub-basket (\$ a month)	16.3	300.0	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	10.0	6.2	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		10.8	10.8
Trade ICT goods exports (% of total goods exports)	5.7	0.7	
ICT goods imports (% of total goods imports)	7.4	4.3	3.4
ICT service exports (% of total service exports)	13.0	18.2	
Applications			
Online service index (0-1, 1=highest presence)	0.10	0.15	0.11
Secure Internet servers (per million people)	0.9	1.9	1.5

Ukraine

Europe & Central Asia

Lower middle income

			Lower middle-
	Countr	y data	income group 2015
Economic and social context			
Population (millions)	46	45	2,927
Urban population (% of total)	69	70	39
GNI per capita, World Bank Atlas method (\$)	2,990	2,620	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.3	-2.3	5.4
Adult literacy rate (% ages 15 and older)		100	
Gross primary, secondary, and tertiary school enrollment (%)	94	96	68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	С	
Mobile telephone service	C C	C	
Internet service Foreign ownership (not allowed, restricted, allowed)	A	C A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	No	
		110	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.0	2.6	
Telecommunications investment (% of revenue)	13.6	13.7	
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	28.1	21.6	3.5
Mobile-cellular telephone subscriptions (per 100 people)	117.1	144.0	90.5
Fixed-broadband subscriptions (per 100 people)	6.4	11.8	1.9
Households with a computer (%)	25.2	59.2ª	
Households with Internet access at home (%)	22.2	51.1ª	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)			152.0
Individuals using the Internet (%)	23.3	49.3ª	28.6
Quality			
Population covered by at least a 3G mobile network (%)	1	35ª	·
International Internet bandwidth (bit/s per Internet user)	14,912	45,743	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	6.5	3.0	6.9
Fixed-broadband sub-basket (\$ a month)	7.6	2.7	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		2.5	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		2.7	10.0
Trade			
ICT goods exports (% of total goods exports)	1.1	1.0	5.7
ICT goods imports (% of total goods imports)	3.2	3.6	7.6
ICT service exports (% of total service exports)	17.3	31.6	48.0
Applications			
Applications Online service index (0-1, 1=highest presence)	0.35	0.27	0.26
Secure Internet servers (per million people)	13.2	65.5	7.4
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The Little Data Book on Information and Communication Technology 2016

United Arab Emirates

Middle East & North Africa

High income

	Count	ry data	High- income
	2010	2015	group 2015
Economic and social context Population (millions)	8	9	1,187
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	84 34,140 1.9	86 43,170 4.9	81 41,366 1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	90	93	
Sector structure			
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Mixed	Yes Mixed	
International gateway(s) Mobile telephone service	P P	P P	
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	P R B	P A C	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.4 30.8	2.3 15.7	2.5 18.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	17.5 129.4 9.3	23.1 187.3 12.8	41.2 124.5 31.0
Households with a computer (%) Households with Internet access at home (%)	76.0 65.0	89.3ª 95.4ª	83.2
Usage Int'l. voice traffic, total (minutes/subscription/month)	53.1	52.9	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	128.0 68.0	95.7 91.2ª	195.9 81.0
Quality Population covered by at least a 3G mobile network (%)	100	100	99
International Internet bandwidth (bit/s per Internet user)	18,309	107,904	134,761
Affordability Mobile-cellular sub-basket (\$ a month)	8.6	6.7	14.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	40.6 27.0 39.5	40.6 16.3 27.0	25.2 10.4 14.4
	00.0	21.0	14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	2.0 4.5		9.5 11.2
ICT service exports (% of total service exports)			32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.25 137.5	0.88 354.7	0.67 1,194.6

United Kingdom

Europe & Central Asia

High income

	Count	ry data	High- income
	2010	2015	group 2015
Economic and social context Population (millions)	63		1,187
Urban population (% of total)	81		81
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	40,480 0.1	2.1	41,366 1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 90	100	 95
Sector structure	Yes	Yes	
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	Private		
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service	С	С	
Internet service Foreign ownership (not allowed, restricted, allowed)	 A	C A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.0 11.5		2.5 18.8
Telecommunications investment (% of revenue)	11.5		10.0
Sector performance			
Access	52.0	F0.0	41.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	53.8 123.6		41.2 124.5
Fixed-broadband subscriptions (per 100 people)	30.9		31.0
Households with a computer (%)	82.6	89.9	83.2
Households with Internet access at home (%)	79.6	91.3	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	 135.4		 195.9
Individuals using the Internet (%)	85.0		81.0
-			
Quality Population covered by at least a 3G mobile network (%)	95	99	99
International Internet bandwidth (bit/s per Internet user)	132,685	374,554	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	34.9		14.2
Fixed-broadband sub-basket (\$ a month)	24.6 9.5		25.2 10.4
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	9.5 16.1		10.4
	10.1	10.0	11.1
Trade ICT goods exports (% of total goods exports)	5.8	4.2	9.5
ICT goods imports (% of total goods imports)	9.5		11.2
ICT service exports (% of total service exports)	34.5	38.3	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.77	0.90	0.67
Secure Internet servers (per million people)	1,384.1	1,382.6	1,194.6

United States

North America

High income

	Countr	'y data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	309	321	1,187
Urban population (% of total)	81	82	81
GNI per capita, World Bank Atlas method (\$)	48,950	54,960	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.4	2.0	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 97	 96	 95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	С	
Mobile telephone service	C C	C C	
Internet service Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity	2.4	2.4	0.5
Telecommunications revenue (% of GDP)	3.4 13.9	3.4	2.5 18.8
Telecommunications investment (% of revenue)	15.9		10.0
Sector performance			
Access	47.9	37.5	41.2
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	91.3	117.6	124.5
Fixed-broadband subscriptions (per 100 people)	27.1	31.5	31.0
Households with a computer (%)	75.5ª		
Households with Internet access at home (%)	71.1	82.2ª	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	16.8		
Domestic mobile traffic (minutes/subscription/month)	347.6 71.7	316.6 74.6	195.9 81.0
Individuals using the Internet (%)	/1./	74.0	01.0
Quality Population covered by at least a 3G mobile network (%)	99	100	99
International Internet bandwidth (bit/s per Internet user)	40,206		134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	35.7	35.7	14.2
Fixed-broadband sub-basket (\$ a month)	20.0	16.3	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	54.4	38.1	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	21.8	16.5	14.4
Trade	10.6	9.0	9.5
ICT goods exports (% of total goods exports)	10.0	9.0 13.1	9.5 11.2
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	22.4	22.7	32.0
			02.0
Applications	0.94	0.04	0.67
Online service index (0-1, 1=highest presence)	0.94	0.94 1,649.9	0.67 1,194.6
Secure Internet servers (per million people)	1,440.0	1,043.3	1,134.0

Uruguay

Latin America & Caribbean

High income

Group group 2010 2015 Economic and social context Population (millions) 3 3 2016 2015 Economic and social context Population (% of total) 94 95 Group and 2010-15 (avg. annual %) 6.0 3.6 Group and 2010-15 (avg. annual %) 6.0 3.6 Sector structure Sector structure Sector structure Sector structure Ves Yes Sector structure C C C C C C C C C C C C C C		Countr	Country data	
Population (millions) 3 3 1,187 Urban population (% of total) 94 95 81 GNI per capital, World Bank Atlas method (\$) 10,390 15,720 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 6.0 3.6 1.5 Adut literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enrollment (%) 90 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Luberol Level of competition (competition, partial comp., monopoly) Internet service C C C Internet service P C Foreign ownership (not allowed, restricted, allowed) Telecommunications revenue (% of GDP) 2.9 2.4 2.5 Telecommunications (per 100 people) 13.6 160.2 124.5 Fixed-broadband		2010	2015	
Urban population (% of total) 94 95 81 GNI per capita, World Bank Atlas method (\$) 10,390 15,720 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.0 3.6 1.5 Adult literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enrollment (%) 90 95 Sector structure Sector structure Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) Internet service P C C C C Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) No No No Sector efficiency and capacity Telecommunications investment (% of GDP) 2.9 2.4 2.5 Telecohmunications investment (% of revenue) 50.1 47.9 18.8 Sector performance Access 32.3 41.2 Nobile-cellular tele	Economic and social context			
GNI per capita, World Bank Atlas method (\$) 10,390 15,720 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 6.0 3.6 1.5 Adult literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enroliment (%) 90 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Public Level of competition (competition, partial comp., monopoly) Internet service P C C C Internet service P C Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) No No No Sector performance Access Fixed-trackand subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-		3	3	1,187
GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.0 3.6 1.5 Adult literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enrollment (%) 90 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) Internet service P C C Internet service P C Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) No No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 2.4 2.5 Telecommunications investment (% of revenue) 50.1 47.9 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 13.6 160.2 12.4.5 Fixed-telephone subscriptions (per 100 people) 13.6 160.2 <	Urban population (% of total)	94	95	
Adult literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enroliment (%) 90 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) Internet service P C C C Internet service P C C C Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 2.4 2.5 Telecommunications investment (% of revenue) 50.1 47.9 18.8 Sector performance Access 11.4 26.3 31.0 Households with a computer (%) 53.4 68.0 83.2 Households with a computer (%) 33.5 59.7 85.0 Usage Int'l. voice traffic, total (minutes			,	,
Gross primary, secondary, and tertiary school enrollment (%)9095Sector structureSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorPublicPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)Mobile telephone servicePCCCInternet servicePCCForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)NoNoNoSector efficiency and capacity2.92.42.5Telecommunications revenue (% of GDP)2.92.42.5Telecommunications investment (% of revenue)50.147.918.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)13.6160.2124.5Fixed-telephone subscriptions (per 100 people)13.468.083.2Households with a computer (%)53.468.083.2Households with a computer (%)53.468.083.2Jomestic mobile traffic, total (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)89.592.7195.9Individuals using the Internet (%)90.899International Internet bandwidth (bit/s per Internet user)24,11573,151134,76				
Separate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)Mobile telephone serviceCCCInternet servicePCCForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityElecommunications investment (% of fevenue)50.147.918.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)28.532.341.2Mobile-cellular telephone subscriptions (per 100 people)131.6160.2124.5Fixed-telephone subscriptions (per 100 people)134.468.083.2Households with a computer (%)53.468.083.2Households with a computer (%)53.464.681.0UsageInt'l. voice traffic, total (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)89.592.7195.9Individuals using the Internet (%)46.464.681.0QualityPopulation covered by at least a 3G mobile network (%)90.8Population covered by at least a 3G mobile network (%)90.899International Internet bandwidth (bit/s per Internet user)24,11573.151134.761Affordability<				
Status of main fixed-line telephone operatorPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)Mobile telephone servicePCForeign ownership (not allowed, restricted, allowed)NoNoReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacity2.92.42.5Telecommunications revenue (% of GDP)2.92.42.5Telecommunications investment (% of revenue)50.147.918.8Sector performanceAccessFixed-broadband subscriptions (per 100 people)131.6160.2124.5Sized-broadband subscriptions (per 100 people)133.559.785.031.0Households with a computer (%)53.468.083.241.2Households with Internet access at home (%)33.559.785.0UsageInternet (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)9.464.681.0Quality9911.417.014.2Population covered by at least a 3G mobile network (%)90.39.9International Internet bandwidth (bit/s per Internet user)24.11573.151134.761Affordability13.46.913.710.4Mobile-cellular sub-basket (\$ a month)9.3710.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)9.37 <td>Sector structure</td> <td></td> <td></td> <td></td>	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s)Mobile telephone serviceCCForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacity Telecommunications revenue (% of GDP)2.92.42.5Telecommunications revenue (% of revenue)50.147.918.8Sector performance Access 	Separate telecommunications/ICT regulator	Yes	Yes	
International gateway(s)Mobile telephone serviceCCInternet servicePCForeign ownership (not allowed, restricted, allowed)NoNoReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityElecommunications revenue (% of GDP)2.92.42.5Telecommunications investment (% of revenue)50.147.918.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)131.6160.2124.5Fixed-telephone subscriptions (per 100 people)131.6160.2124.5124.5Fixed-telephone subscriptions (per 100 people)11.426.331.0Households with a computer (%)53.468.083.2Households with lnternet access at home (%)33.559.785.0UsageInt'l. voice traffic, total (minutes/subscription/month)6.44.5Individuals using the Internet (%)46.464.664.681.0QualityPopulation covered by at least a 3G mobile network (%)90a99International Internet bandwidth (bit/s per Internet user)24,11573,151134,761AffordabilityMobile-cellular sub-basket (\$ a month)19.317.925.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.88.014.4TradeICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)	Status of main fixed-line telephone operator	Public	Public	
Mobile telephone serviceCCCInternet servicePCForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityTelecommunications revenue (% of GDP)2.92.42.5Telecommunications investment (% of revenue)50.147.918.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)131.6160.2124.5Sixed-broadband subscriptions (per 100 people)131.6160.2124.5Fixed-broadband subscriptions (per 100 people)134.468.083.2Households with a computer (%)53.468.083.2Households with Internet access at home (%)33.559.785.0UsageInt'l. voice traffic, total (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)6.464.681.0QualityPopulation covered by at least a 3G mobile network (%)90 ^a 99International Internet bandwidth (bit/s per Internet user)24,11573,151134,761AffordabilityMobile-cillular sub-basket (\$ a month)19.317.925.2Mobile-cillular sub-basket (\$ a month)9.3710.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.88.014.4TradeICT goods exports (% of total goods				
Internet servicePCForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityTelecommunications revenue (% of GDP)2.92.42.5Telecommunications investment (% of revenue)50.147.918.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)28.532.341.2Mobile-cellular telephone subscriptions (per 100 people)13.6160.2124.5Fixed-broadband subscriptions (per 100 people)13.468.083.2Households with a computer (%)53.468.083.2Households with Internet access at home (%)33.559.785.0UsageInternet fic, total (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)89.592.7195.9Individuals using the Internet (%)46.464.681.0QualityMobile-cellular sub-basket (\$ a month)21.417.014.2Fixed-broadband sub-basket (\$ a month)19.317.925.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.83.014.4TradeICT goods exports)0.00.19.5ICT goods exports (% of total goods exports)0.00.19.512.2ICT goods imports (% of total goods exports)19.124.332.0Applications0.00.19.512.2<				
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Reg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacity Telecommunications investment (% of GDP)2.92.42.5Telecommunications investment (% of revenue)50.147.918.8Sector performance Access Fixed-telephone subscriptions (per 100 people)28.532.341.2Mobile-cellular telephone subscriptions (per 100 people)13.6160.2124.5Fixed-broadband subscriptions (per 100 people)13.468.083.2Households with a computer (%)53.468.083.2Households with a computer (%)33.559.785.0Usage Int'l. voice traffic, total (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)6.446.681.0Quality Population covered by at least a 3G mobile network (%)90 ^a 99International Internet bandwidth (bit/s per Internet user)24.11573,151134,761Affordability Mobile-cellular sub-basket (\$ a month)19.317.925.2Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)9.88.014.4Trade ICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods exports)19.124.332.0Applications Online service index (0-1, 1=highest presence)0.480.850.67				
Telecommunications revenue (% of GDP) 2.9 2.4 2.5 Telecommunications investment (% of revenue) 50.1 47.9 18.8 Sector performance Access 1 147.9 18.8 Fixed-telephone subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-telephone subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-broadband subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-broadband subscriptions (per 100 people) 131.6 160.2 124.5 Households with a computer (%) 53.4 68.0 83.2 Households with Internet access at home (%) 33.5 59.7 85.0 Usage Intil. voice traffic, total (minutes/subscription/month) 6.4 4.5 . Domestic mobile traffic (minutes/subscription/month) 89.5 92.7 195.9 Individuals using the Internet (%) 46.4 64.6 81.0 Quality 90° 99 International Internet bandwidth (bit/s per Internet user) 24.115 73.151 134.761 </td <td></td> <td></td> <td></td> <td></td>				
Telecommunications investment (% of revenue) 50.1 47.9 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 28.5 32.3 41.2 Mobile-cellular telephone subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-broadband subscriptions (per 100 people) 11.4 26.3 31.0 Households with a computer (%) 53.4 68.0 83.2 Households with Internet access at home (%) 33.5 59.7 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 6.4 4.5 . Domestic mobile traffic (minutes/subscription/month) 89.5 92.7 195.9 Individuals using the Internet (%) 46.4 64.6 81.0 Quality . 90a 99 International Internet bandwidth (bit/s per Internet user) 24.115 73,151 134,761 Affordability . . 90a 99 International Internet bandwidth (bit/s per Internet user) 24.115 73,151 134,761 Affordability .	Sector efficiency and capacity			
Sector performance Access Fixed-telephone subscriptions (per 100 people) 28.5 32.3 41.2 Mobile-cellular telephone subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-toradband subscriptions (per 100 people) 11.4 26.3 31.0 Households with a computer (%) 53.4 68.0 83.2 Households with Internet access at home (%) 33.5 59.7 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 6.4 4.5 Domestic mobile traffic (minutes/subscription/month) 6.4 64.6 81.0 Quality Population covered by at least a 3G mobile network (%) 90 ^a 99 International Internet bandwidth (bit/s per Internet user) 24,115 73,151 134,761 Affordability				
Access Fixed-telephone subscriptions (per 100 people) 28.5 32.3 41.2 Mobile-cellular telephone subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-broadband subscriptions (per 100 people) 11.4 26.3 31.0 Households with a computer (%) 53.4 68.0 83.2 Households with Internet access at home (%) 33.5 59.7 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 6.4 4.5 Domestic mobile traffic (minutes/subscription/month) 89.5 92.7 195.9 Individuals using the Internet (%) 46.4 64.6 81.0 Quality 90 ^a 99 International Internet bandwidth (bit/s per Internet user) 24,115 73,151 134,761 Affordability 90 ^a 99 3.7 10.4 Mobile-cellular sub-basket (\$ a month) 19.3 17.9 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 9.8 8.0 14.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)<	Telecommunications investment (% of revenue)	50.1	47.9	18.8
Fixed-telephone subscriptions (per 100 people) 28.5 32.3 41.2 Mobile-cellular telephone subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-broadband subscriptions (per 100 people) 11.4 26.3 31.0 Households with a computer (%) 53.4 68.0 83.2 Households with Internet access at home (%) 33.5 59.7 85.0 Usage Int1. voice traffic, total (minutes/subscription/month) 6.4 4.5 Domestic mobile traffic (minutes/subscription/month) 89.5 92.7 195.9 Individuals using the Internet (%) 46.4 64.6 81.0 Quality 90° 99 International Internet bandwidth (bit/s per Internet user) 24,115 73,151 134,761 Affordability 90° 99 3.7 10.4 Mobile-cellular sub-basket (\$ a month) 19.3 17.9 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 9.9 3.7 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 9.8 8.0 14.4 Trade <td< td=""><td>-</td><td></td><td></td><td></td></td<>	-			
Mobile-cellular telephone subscriptions (per 100 people) 131.6 160.2 124.5 Fixed-broadband subscriptions (per 100 people) 11.4 26.3 31.0 Households with a computer (%) 53.4 68.0 83.2 Households with internet access at home (%) 33.5 59.7 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 6.4 4.5 Domestic mobile traffic (minutes/subscription/month) 89.5 92.7 195.9 Individuals using the Internet (%) 46.4 64.6 81.0 Quality Population covered by at least a 3G mobile network (%) 90 ^a 99 International Internet bandwidth (bit/s per Internet user) 24,115 73,151 134,761 Affordability 90 ^a 99 10.4 Mobile-cellular sub-basket (\$ a month) 21.4 17.0 14.2 Fixed-broadband sub-basket (\$ a month) 9.9 3.7 10.4 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 9.8 8.0 14.4 Trade		20 E	22.2	11.2
Fixed-broadband subscriptions (per 100 people)11.426.331.0Households with a computer (%)53.468.083.2Households with Internet access at home (%)33.559.785.0UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)89.592.7195.9Individuals using the Internet (%)46.464.681.0QualityPopulation covered by at least a 3G mobile network (%)90a99International Internet bandwidth (bit/s per Internet user)24,11573,151134,761AffordabilityMobile-cellular sub-basket (\$ a month)19.317.925.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.93.710.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)9.88.014.4TradeICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods exports)19.124.332.0ApplicationsOnline service index (0-1, 1=highest presence)0.480.850.67				
Households with a computer (%)53.468.083.2Households with Internet access at home (%)33.559.785.0Usage Int'I. voice traffic, total (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)89.592.7195.9Individuals using the Internet (%)46.464.681.0Quality Population covered by at least a 3G mobile network (%)90 ^a 99International Internet bandwidth (bit/s per Internet user)24,11573,151134,761Affordability Mobile-cellular sub-basket (\$ a month)21.417.014.2Fixed-broadband sub-basket (\$ a month)9.93.710.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)9.88.014.4Trade ICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications Online service index (0-1, 1=highest presence)0.480.850.67				
Households with Internet access at home (%)33.559.785.0Usage Int'I. voice traffic, total (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)89.592.7195.9Individuals using the Internet (%)46.464.681.0Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)90 ^a 99International Internet bandwidth (bit/s per Internet user)24,11573,151134,761Affordability Nobile-cellular sub-basket (\$ a month)21.417.014.2Fixed-broadband sub-basket (\$ a month)9.93.710.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)9.88.014.4Trade ICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications Online service index (0-1, 1=highest presence)0.480.850.67				
Int'l. voice traffic, total (minutes/subscription/month)6.44.5Domestic mobile traffic (minutes/subscription/month)89.592.7195.9Individuals using the Internet (%)46.464.681.0QualityPopulation covered by at least a 3G mobile network (%)90°99International Internet bandwidth (bit/s per Internet user)24,11573,151134,761Affordability21.417.014.2Fixed-broadband sub-basket (\$ a month)19.317.925.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.93.710.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)9.88.014.4TradeICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications0.480.850.67				85.0
Domestic mobile traffic (minutes/subscription/month)89.592.7195.9Individuals using the Internet (%)46.464.681.0Quality90pulation covered by at least a 3G mobile network (%)90a99International Internet bandwidth (bit/s per Internet user)24,11573,151134,761Affordability21.417.014.2Mobile-cellular sub-basket (\$ a month)19.317.925.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.93.710.4Mobile-b'band, prepaid computer-based, 1 GB (\$ a month)9.88.014.4Trade0.00.19.5ICT goods exports (% of total goods exports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications0.480.850.67				
Individuals using the Internet (%)46.464.681.0Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)90³99Affordability Mobile-cellular sub-basket (\$ a month)21.417.014.2Fixed-broadband sub-basket (\$ a month)19.317.925.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.93.710.4Mobile-b'band, prepaid computer-based, 1 GB (\$ a month)9.88.014.4Trade ICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications Online service index (0-1, 1=highest presence)0.480.850.67				
QualityPopulation covered by at least a 3G mobile network (%)90° 99International Internet bandwidth (bit/s per Internet user)24,11573,151134,761AffordabilityMobile-cellular sub-basket (\$ a month)21.417.014.2Fixed-broadband sub-basket (\$ a month)19.317.925.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.93.710.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)9.88.014.4TradeICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications0.480.850.67				
Population covered by at least a 3G mobile network (%) 90a 99 International Internet bandwidth (bit/s per Internet user) 24,115 73,151 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 21.4 17.0 14.2 Fixed-broadband sub-basket (\$ a month) 19.3 17.9 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 9.9 3.7 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 9.8 8.0 14.4 Trade ICT goods exports (% of total goods exports) 0.0 0.1 9.5 ICT goods imports (% of total goods imports) 5.6 6.9 11.2 ICT service exports (% of total service exports) 19.1 24.3 32.0 Applications 0.48 0.85 0.67	Individuals using the Internet (%)	46.4	64.6	81.0
International Internet bandwidth (bit/s per Internet user) 24,115 73,151 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 21.4 17.0 14.2 Fixed-broadband sub-basket (\$ a month) 19.3 17.9 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 9.9 3.7 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 9.8 8.0 14.4 Trade 0.0 0.1 9.5 10.7 ICT goods exports (% of total goods exports) 5.6 6.9 11.2 12.3 32.0 Applications 0.01 9.5 0.4 32.0 32.0 32.0			904	99
Mobile-cellular sub-basket (\$ a month) 21.4 17.0 14.2 Fixed-broadband sub-basket (\$ a month) 19.3 17.9 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 9.9 3.7 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 9.8 8.0 14.4 Trade ICT goods exports (% of total goods exports) 0.0 0.1 9.5 ICT goods imports (% of total goods imports) 5.6 6.9 11.2 ICT service exports (% of total service exports) 19.1 24.3 32.0 Applications 0.48 0.85 0.67		 24,115		
Mobile-cellular sub-basket (\$ a month) 21.4 17.0 14.2 Fixed-broadband sub-basket (\$ a month) 19.3 17.9 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 9.9 3.7 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 9.8 8.0 14.4 Trade ICT goods exports (% of total goods exports) 0.0 0.1 9.5 ICT goods imports (% of total goods imports) 5.6 6.9 11.2 ICT service exports (% of total service exports) 19.1 24.3 32.0 Applications 0.48 0.85 0.67	Affordability			
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.93.710.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)9.88.014.4TradeICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications0.480.850.67		21.4	17.0	14.2
Mobile-b'band, postpaid tamoro obset, or and (or moth)9.88.014.4Trade ICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications Online service index (0-1, 1-highest presence)0.480.850.67	Fixed-broadband sub-basket (\$ a month)	19.3	17.9	25.2
TradeICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0ApplicationsOnline service index (0-1, 1=highest presence)0.480.850.67				
ICT goods exports (% of total goods exports)0.00.19.5ICT goods imports (% of total goods imports)5.66.911.2ICT service exports (% of total service exports)19.124.332.0Applications0.480.850.67	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	9.8	8.0	14.4
ICT goods imports (% of total goods imports) 5.6 6.9 11.2 ICT service exports (% of total service exports) 19.1 24.3 32.0 Applications 0.48 0.85 0.67		0.0	0.1	0.5
ICT service exports (% of total service exports) 19.1 24.3 32.0 Applications 0.48 0.85 0.67	• • • • • •			
Online service index (0-1, 1=highest presence) 0.48 0.85 0.67				
Online service index (0-1, 1=highest presence) 0.48 0.85 0.67	Applications			
Secure Internet servers (per million people) 44.7 106.7 1,194.6		0.48	0.85	0.67
	Secure Internet servers (per million people)	44.7	106.7	1,194.6

Uzbekistan

Europe & Central Asia

Lower middle income

	Country	v data	Lower middle- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	29	31	2,927
Urban population (% of total)	36	36	,
GNI per capita, World Bank Atlas method (\$)	1,300	2,150	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	8.7	8.1	
Adult literacy rate (% ages 15 and older)		100	
Gross primary, secondary, and tertiary school enrollment (%)	68		68
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service	С	С	
Internet service			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allow	 ved) No	 No	
reg. treatment of voir (baimed, closed, no namework, anow	eu) No	NU	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.9	2.2	
Telecommunications investment (% of revenue)	17.3	24.3	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	6.8	8.4	
Mobile-cellular telephone subscriptions (per 100 people)	75.5 0.4	73.3 3.6	
Fixed-broadband subscriptions (per 100 people)	0.4 17.0ª	3.0 43.2	
Households with a computer (%) Households with Internet access at home (%)	21.0ª	43.2 52.6	
	21.0	02.0	2 1.0
Usage	00.4	0.4	7.5
Int'l. voice traffic, total (minutes/subscription/month)	22.1 154.3	9.4 48.2	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	154.3 15.9ª	48.2	
individuals using the internet (%)	15.5*	42.0	- 20.0
Quality			
Population covered by at least a 3G mobile network (%)	40	44	
International Internet bandwidth (bit/s per Internet user)	580	2,075	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	3.4	4.5	
Fixed-broadband sub-basket (\$ a month)	200.0	6.6	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.3	10.0	10.0
Trade			
ICT goods exports (% of total goods exports)			
ICT goods imports (% of total goods imports)			
ICT service exports (% of total service exports)			48.0
Applications			
		0.45	0.26
Online service index (0-1, 1=highest presence)	0.38	0.45	0.20
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)) 6.0 6.3 	10.0 10.0 	5. 10. 5. 7.

Vanuatu

East Asia & Pacific

Lower middle income

			Lower middle-
	Country	/ data 2015	income group 2015
	2010	2013	2015
Economic and social context Population (millions)	0.24	0.26	2,927
Urban population (% of total)	25	26	39
GNI per capita, World Bank Atlas method (\$)	2,690	3,160	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.0	1.8	5.4
Adult literacy rate (% ages 15 and older)		85	
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	С	C	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.1	4.8	
Telecommunications investment (% of revenue)	36.5		
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	3.0	1.8	3.5
Mobile-cellular telephone subscriptions (per 100 people)	71.9	66.2	90.5
Fixed-broadband subscriptions (per 100 people)	0.2	1.6	1.9
Households with a computer (%)	8.7ª	24.8	19.3
Households with Internet access at home (%)	5.4ª	34.54	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)	73.6		152.0
Individuals using the Internet (%)	8.0	22.44	28.6
Quality			
Population covered by at least a 3G mobile network (%)	23	514	·
International Internet bandwidth (bit/s per Internet user)	2,804	8,477	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	23.3	21.9	6.9
Fixed-broadband sub-basket (\$ a month)	171.0	54.9	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		7.8	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		36.9	10.0
Trade			
ICT goods exports (% of total goods exports)	0.4		5.7
ICT goods imports (% of total goods imports)	5.4		7.6
ICT service exports (% of total service exports)	4.1	2.8	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.01	0.08	0.26
Secure Internet servers (per million people)	215.8	71.8	7.4
·····			

The Little Data Book on Information and Communication Technology 2016

Venezuela, RB

Latin America & Caribbean l	Jpper m	ncome	
	Countr	v data	Upper middle- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	29	31	2,594
Urban population (% of total)	89	89	64
GNI per capita, World Bank Atlas method (\$)	11,530	11,780	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.7	0.4	4.5
Adult literacy rate (% ages 15 and older)	95	95	
Gross primary, secondary, and tertiary school enrollment (%)	88		81
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)		С	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed) C	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.3	3.0	2.1
Telecommunications investment (% of revenue)	11.2	17.5	18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	24.4	24.9	17.3
Mobile-cellular telephone subscriptions (per 100 people)	96.0	93.0	105.1
Fixed-broadband subscriptions (per 100 people)	5.8	8.2	15.4
Households with a computer (%)	19.4ª	46.9ª	
Households with Internet access at home (%)	14.3ª	34.7ª	52.2
Usage	2.0		0.0
Int'l. voice traffic, total (minutes/subscription/month)	3.8	4.4	2.3
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	99.5 37.4	118.0 61.9ª	173.1 52.1
-			
Quality			<u></u>
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 6,450	 16,310	69 26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	22.3	12.7	8.5
Fixed-broadband sub-basket (\$ a month)	14.2	23.1	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	13.8	36.7	7.7
Mobile b'hand, prepaid handset-based, 500 MD (\$ a month)	10.0	E0 /	11.1

Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	18.4	58.4	11.1
Trade	0.0	0.0	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	0.0 7.6	0.0 4.2	15.7 14.4
ICT service exports (% of total service exports)	10.6	13.0	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.30	0.55	0.37
Secure Internet servers (per million people)	7.4	12.7	34.7

Vietnam

East Asia & Pacific

Lower middle income

Economic and social context	Countr		Incomo
	2010	2015	income group 2015
Population (millions)	87	92	2,927
Urban population (% of total)	30	34	39
GNI per capita, World Bank Atlas method (\$)	1,270	1,980	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	6.2	5.8	5.4
Adult literacy rate (% ages 15 and older)	94	95	
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	C	
Mobile telephone service	С	C	
Internet service	С	C	
Foreign ownership (not allowed, restricted, allowed)	R A	A C	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	U	
Sector efficiency and capacity	0.5		
Telecommunications revenue (% of GDP)	6.5		
Telecommunications investment (% of revenue)			
Sector performance			
Access	16.1	6.2	2 5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	16.1 125.3	6.3 130.6	
Fixed-broadband subscriptions (per 100 people)	4.1	8.1	1.9
Households with a computer (%)	14.2ª		
Households with Internet access at home (%)	12.5ª		
llaaga			
Usage Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)			152.0
Individuals using the Internet (%)	30.7	52.7	28.6
Quality			
Population covered by at least a 3G mobile network (%)			
International Internet bandwidth (bit/s per Internet user)	4,925	24,374	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	5.6	4.4	6.9
Fixed-broadband sub-basket (\$ a month)	10.5	2.8	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	1.9	3.5	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	38.4	5.5	10.0
Trade			
ICT goods exports (% of total goods exports)	7.9	24.0	5.7
ICT goods imports (% of total goods imports)	8.4	19.1	7.6
ICT service exports (% of total service exports)			48.0
Applications			
Online service index (0-1, 1=highest presence)	0.30	0.42	0.26
Secure Internet servers (per million people)	3.1	14.8	7.4

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Virgin Islands (U.S.)

Latin America & Caribbean

High income

201020152015201020152015Economic and social contextPopulation (% of total)959581GNI per capital, World Bank Atlas method (\$)<		Country	Country data		Country data		ii Country data		ir Country data	High- income group
Population (millions) 0.11 0.10 1.187 Urban population (% of total) 95 95 81 GNI per capita, World Bank Atlas method (\$) 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Internet service Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Fixed-telephone subscriptions (per 100 people) Mobile cellular telephones subscription/month) Fixed-telephone subscriptions (per 100 people)		2010	2015							
Urban population (% of total)959581GNI per capita, World Bank Atlas method (\$)41,366GDP growth, 2005-10 and 2010-15 (arg. annual %)1.5Adult literacy rate (% ages 15 and older)Gross primary, secondary, and tertiary school enrollment (%)Sector structureSector structureSector structureSeparate telecommunications/ICT regulatorStatus of main fixed-line telephone operatorLevel of competition (competition, partial comp., monopoly)Internet serviceForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)2.5Telecommunications revenue (% of GDP)Sector performanceAccessFixed-telephone subscriptions (per 100 people)Households with a computer (%)<	Economic and social context									
GNI per capita, World Bark Atlas method (\$)	Population (millions)	0.11	0.10	1,187						
GDP growth, 2005-10 and 2010-15 (avg. annual %) . . 1.5 Adult literacy rate (% ages 15 and older) . . . Gross primary, secondary, and tertiary school enrollment (%) . . . Sector structure Separate telecommunications/ICT regulator Level of competition (competition, partial comp., monopoly) International gateway(5) . </td <td>Urban population (% of total)</td> <td>95</td> <td>95</td> <td>81</td>	Urban population (% of total)	95	95	81						
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition, competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access <				,						
Gross primary, secondary, and tertiary school enrollment (%) .				1.5						
Sector structure Separate telecommunications/ICT regulator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Icecoses Fixed-telephone subscriptions (per 100 people) 71.3 Fixed-telephone subscriptions (per 100 people) Mobile cellular telephone subscriptions (per 100 people) Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Level-broadband sub-basket (\$ a month) Mobile-cellular telephone subscription/month) Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Int'l. voice traffic (ba month)										
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International Internet bandwidth (bit/s per Internet user)	Ouality									
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Mobile-cellular sub-basket (\$ a month) 14.2 Fixed-broadband sub-basket (\$ a month) 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 10.4 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 14.4 Trade 9.5 ICT goods exports (% of total goods exports) .1.2 ICT service exports (% of total service exports) 32.0 Applications 0.67										
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Applications Online service index (0-1, 1=highest presence) 0.67										
Online service index (0-1, 1=highest presence) 0.67	ICT service exports (% of total service exports)			32.0						
Online service index (0-1, 1=highest presence) 0.67	Applications									
				0.67						
		385.8	453.8	1,194.6						

West Bank and Gaza

Middle East & North Africa

Lower middle income

			Lower middle-
	Country	y data 2015	income group 2015
	2010	2015	2015
Economic and social context Population (millions)	4	4	2,927
Urban population (% of total)	74	75	2,321
GNI per capita, World Bank Atlas method (\$)	2,310	3,090	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	1.3	4.6	5.4
Adult literacy rate (% ages 15 and older)	95	97	
Gross primary, secondary, and tertiary school enrollment (%)	78	75	68
Sector structure			
Separate telecommunications/ICT regulator			
Status of main fixed-line telephone operator			
Level of competition (competition, partial comp., monopoly)			
International gateway(s)			
Mobile telephone service			
Internet service			
Foreign ownership (not allowed, restricted, allowed)	 A	 A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	~	~	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	9.0	8.9	3.5
Mobile-cellular telephone subscriptions (per 100 people)	64.9	77.6	90.5
Fixed-broadband subscriptions (per 100 people)	3.8	6.0	1.9
Households with a computer (%)	50.1ª 29.4ª	66.7ª 52.4ª	
Households with Internet access at home (%)	29.44	JZ.4°	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)	 37.4ª	 57.4ª	152.0 28.6
Individuals using the Internet (%)	57.4ª	57.45	20.0
Quality			
Population covered by at least a 3G mobile network (%)	0	0	
International Internet bandwidth (bit/s per Internet user)	10,906	13,399	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)		14.5	6.9
Fixed-broadband sub-basket (\$ a month)		17.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		14.6	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		12.6	10.0
Trade			
ICT goods exports (% of total goods exports)	1.3	0.4	5.7
ICT goods imports (% of total goods imports)	2.8	2.6	7.6
ICT service exports (% of total service exports)	9.1	28.6	48.0
Applications			
Online service index (0-1, 1=highest presence)			0.26
Secure Internet servers (per million people)	3.9	5.7	7.4
			-

Yemen, Rep.

Middle East & North Africa

Lower middle income

WILLUIE East & NORTH AIRCA	Lowerm	iuule i	ncome
	Country	y data	Lower middle- income group
	2010	2015	2015
Economic and social context			
Population (millions)	24	27	2.927
Urban population (% of total)	32	35	39
GNI per capita, World Bank Atlas method (\$)	1,250	1,300	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.7	-2.7	5.4
Adult literacy rate (% ages 15 and older)		70	
Gross primary, secondary, and tertiary school enrollment (%)	53		68
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	М	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allow	ed) B	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.9		
Telecommunications investment (% of revenue)	29.4		
Sector performance			
Access	4.6	4.7	3.5
Fixed-telephone subscriptions (per 100 people)	48.7	68.0	90.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	0.4	1.5	1.9
Households with a computer (%)	4.0 ^a	6.5	
Households with Internet access at home (%)	2.9ª	5.54	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	13.4		7.5
Domestic mobile traffic (minutes/subscription/month)			152.0
Individuals using the Internet (%)	12.4	25.14	28.6
Quality Population covered by at least a 3G mobile network (%)			
International Internet bandwidth (bit/s per Internet user)	1,138	2,496	 10.372
international internet bandwidth (bit/s per internet user)	1,100	2,400	10,572
Affordability			
Mobile-cellular sub-basket (\$ a month)	9.8	8.4	6.9
Fixed-broadband sub-basket (\$ a month)	16.7	7.3	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	23.3	13.5	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		13.5	10.0
Trade			
ICT goods exports (% of total goods exports)	0.0	0.1	5.7
ICT goods imports (% of total goods imports)	1.3	1.3	7.6
ICT service exports (% of total service exports)	7.3	13.1	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.05	0.31	0.26
Secure Internet servers (per million people)	0.3	0.6	7.4

Zambia

Sub-Saharan Africa

Lower middle income

			Lower middle-
	Country data		income group
	2010	2015	2015
Economic and social context			
Population (millions)	14	16	2,927
Urban population (% of total)	39	41	39
GNI per capita, World Bank Atlas method (\$)	1,310	1,500	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	8.6 83	5.5 85	5.4
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C C	C P	
Mobile telephone service Internet service	C	P C	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	0.1	2.0	
Telecommunications investment (% of revenue)		4.2	
Sector performance			
Access	0.9	0.7	3.5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	41.2	74.5	90.5
Fixed-broadband subscriptions (per 100 people)	0.1	0.1	1.9
Households with a computer (%)	3.7	7.44	19.3
Households with Internet access at home (%)	3.1ª	12.7	24.3
Usage	10		
Int'l. voice traffic, total (minutes/subscription/month)	1.9 47.3	2.1	7.5 152.0
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	10.0	83.8 21.0ª	
Quality			
Population covered by at least a 3G mobile network (%)	15	53	
International Internet bandwidth (bit/s per Internet user)	378	3,187	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.9	8.0	6.9
Fixed-broadband sub-basket (\$ a month)	58.0	29.0	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.4 	9.3 14.0	5.8 10.0
Trade			
ICT goods exports (% of total goods exports)	0.0	0.1	5.7
ICT goods imports (% of total goods imports)	2.3	2.5	7.6
ICT service exports (% of total service exports)	4.7	4.2	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.10	0.14	0.26
Secure Internet servers (per million people)	1.1	4.3	7.4

The Little Data Book on Information and Communication Technology 2016

Zimbabwe

Sub-Saharan Africa

Low income

	Country data		Low- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	14	16	638
Urban population (% of total)	33	32	31
GNI per capita, World Bank Atlas method (\$)	500	850	620
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	-3.4 84	6.2 87	5.4
Gross primary, secondary, and tertiary school enrollment (%)	60	59	60
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)	Р	Р	
International gateway(s) Mobile telephone service	P	P	
Internet service	c	Ċ	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)		8.8	
Telecommunications investment (% of revenue)		15.8	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	2.9	2.2	0.9
Mobile-cellular telephone subscriptions (per 100 people)	58.9	84.8	60.0
Fixed-broadband subscriptions (per 100 people)	0.3	1.1	0.3
Households with a computer (%)	5.3	11.8ª	4.8
Households with Internet access at home (%)	4.0	18.1ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	4.9	3.7	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	36.0 6.4ª	29.0 16.4ª	48.9 9.5
individuals using the internet (δ)	0.4-	10.4*	5.5
Quality Population covered by at least a 3G mobile network (%)	5	55	51
International Internet bandwidth (bit/s per Internet user)	519	6,380	4,245
Affordability			
Mobile-cellular sub-basket (\$ a month)	20.6	12.9	9.4
Fixed-broadband sub-basket (\$ a month)	30.0	15.0	33.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	54.0	10.0	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	90.0	80.0	10.8
Trade ICT goods exports (% of total goods exports)	0.0	0.1	
ICT goods imports (% of total goods imports)	5.5	3.9	 3.4
ICT service exports (% of total service exports)			
Applications			
Online service index (0-1, 1=highest presence)	0.13	0.31	0.11
Secure Internet servers (per million people)	0.9	6.6	1.5

Notes

- a. ITU estimate.
- b. Excludes South Sudan.
- c. Excludes South Sudan after July 9, 2011.

Adult literacy rate is the percentage of people ages 15 and older who can, with understanding, read and write a short, simple statement about their everyday life. (United Nations Educational, Scientific, and Cultural Organization Institute for Statistics) (w)

Domestic mobile traffic refers to the total number of minutes of calls made by mobile subscribers within a country (including minutes to fixed-telephone and minutes to mobile-phone subscribers). Data listed for 2015 are for 2014. (International Telecommunication Union) (w)

Fixed-broadband sub-basket refers to the price of the monthly subscription to an entry-level fixed broadband plan. For comparability reasons, the fixed broadband sub-basket is based on a monthly usage of (a minimum of) 1 gigabyte (GB). For plans that limit the monthly amount of data transferred by including caps below 1 GB, the cost for additional bytes is added to the sub-basket. The minimum speed of a broadband connection is 256 kbit/s. (International Telecommunication Union) (m)

Fixed-broadband subscriptions refers to fixed subscriptions to high-speed access to the public Internet (a TCP/IP connection), at downstream speeds equal to, or greater than, 256 kbit/s. This includes cable modem, DSL, fiber-to-the-home/building, other fixed (wired)-broadband subscriptions, satellite broadband, and terrestrial fixed wireless broadband. This total is measured irrespective of the method of payment. It excludes subscriptions that have access to data communications (including the Internet) via mobile-cellular networks. It should include fixed WiMAX and any other fixed wireless technologies. It includes both residential subscriptions and subscriptions for organization (International Telecommunication Union) (w)

Fixed-telephone subscriptions refers to the sum of active number of analog fixed-telephone lines, Voice over Internet Protocol (VoIP) subscriptions, fixed wireless local loop (WLL) subscriptions, ISDN voice-channel equivalents, and fixed public payphones. (International Telecommunication Union) (w)

Foreign ownership refers to the allowance of foreign participation or ownership in facility-based and spectrum-based operators as well as in Internet Service Providers (ISPs). (No = not allowed, R = allowed with restrictions, A = allowed without restrictions). Data are based on self-reported information submitted by country administrations. (International Telecommunication Union)

GDP growth is the annual percentage growth rate of gross domestic product (GDP) at market prices based on constant local currency. Aggregates are based on constant 2010 U.S. dollars. GDP is the sum of gross value added by all resident producers in the economy plus any product taxes and minus any subsidies not included in the value of the products. It is calculated without making deductions for depreciation of fabricated assets or for depletion and degradation of natural resources. (World Bank and Organisation for Economic Co-operation and Development) (w)

GNI per capita, *World Bank Atlas* **method**, is gross national income (GNI) converted to U.S. dollars using the *World Bank Atlas* method divided by the midyear population. GNI is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net receipts of primary income (compensation of employees and property income) from abroad. GNI, calculated in national currency, is usually converted to U.S. dollars at official exchange rates for comparisons across economies. The *World Bank Atlas* method is used to smooth fluctuations in prices and exchange rates. It averages the exchange rate for a given year and the two preceding years, adjusted for differences in rates of inflation between the country and the Euro area, Japan, the United Kingdom, and the United States. (World Bank) (w)

Gross primary, secondary, and tertiary school enrollment is the combined number of students enrolled in primary, secondary, and tertiary levels of education, regardless of age, as a percentage of the population of official school age for the three levels. (United Nations Educational, Scientific and Cultural Organization Institute for Statistics) (w)

Households with a computer refers to the percentage of households with a computer at home. A computer includes a desktop computer, a laptop (portable) computer, or a tablet (or similar handheld computer). It does not include equipment with some embedded computing abilities such as smart TV sets, and devices with telephony as their primary function, such as smartphones. (International Telecommunication Union) (w)

Households with Internet access at home refers to the percentage of households with Internet access at home. Access is not assumed to be only via a computer—it may also be by mobile phone, tablet, PDA, games machine, digital TV, etc. (International Telecommunication Union) (w)

ICT goods exports and imports are goods that are intended to fulfill the function of information processing and communication by electronic means, including transmission and display, or that use electronic processing to detect, measure, or record physical phenomena or to control a physical process. They include computers and peripheral equipment, communication equipment, consumer electronic equipment, electronic components, and other information and technology goods. Software is generally excluded. Re-exports (exports of foreign goods in the same state as previously imported) are included. Data listed for 2015 are for 2014. (United Nations Conference on Trade and Development) (w)

ICT service exports comprise communications services (telecommunications, business network services, teleconferencing, support services, and postal services) and computer and information services (database, data processing, software design and development, maintenance and repair, and news-related service transactions). (International Monetary Fund) (w)

Individuals using the Internet refers to the percentage of individuals who have used the Internet (from any location) in the last three months. Internet

can be used via a computer, mobile phone, personal digital assistant, games machine, digital TV, etc. (International Telecommunication Union) (w)

International Internet bandwidth refers to the total used capacity of international Internet bandwidth, in bits per second per Internet user. Used international Internet bandwidth refers to the average traffic load (expressed in Mbit/s) of international fiber-optic cables and radio links for carrying Internet traffic. The average should be calculated over the 12-month period of the reference year, and should take into consideration the traffic of all international Internet links. If the traffic is asymmetric (i.e., more incoming [downlink] than outgoing [uplink] traffic), then the average incoming (downlink) traffic load should be provided. The combined average traffic load of different international Internet links can be reported as the addition of the average traffic load of each link. (International Telecommunication Union) (w)

International voice traffic, total is the sum of international incoming and outgoing telephone fixed and mobile telephone traffic (in minutes). Data listed for 2015 are for 2014. (International Telecommunication Union) (w)

Level of competition, international gateway, is the level of competition for international gateway(s). International gateway is any facility that provides an interface to send and receive electronic communications traffic (i.e., voice, data, and multimedia images/video) between one country's domestic network facilities and those in another country. (C = full competition, M = monopoly, P = partial competition). Data are based on self-reported information submitted by country administrations. (International Telecommunication Union)

Level of competition, Internet service, is the level of competition for retail Internet access service. (C = full competition, M = monopoly, P = partial competition). Data are based on self-reported information submitted by country administrations. (International Telecommunication Union)

Level of competition, mobile telephone service, is the level of competition for digital cellular mobile services. (C = full competition, M = monopoly, P = partial competition). Data are based on self-reported information submitted by country administrations. (International Telecommunication Union)

Mobile-broadband, prepaid handset-based 500MB: This basket refers to the price of a plan for a mobile-broadband handset-based prepaid usage of 500 MB of data per month. Data listed for 2010 refer to 2012. (International Telecommunication Union)

Mobile-broadband, postpaid computer-based (USB/dongle) 1GB: This basket refers to the price of a plan for a mobile-broadband computer-based postpaid usage of 1GB of data per month. Data listed for 2010 refer to 2012. (International Telecommunication Union)

Mobile-cellular sub-basket refers to the price of a standard basket of mobile monthly usage for 30 outgoing calls per month (on-net, off-net,

to a fixed line, and for peak and off-peak times) in predetermined ratios, plus 100 short message service (SMS) messages. The mobile-cellular subbasket is based on prepaid tariffs although postpaid tariffs may be used for countries where prepaid subscriptions make up less than 3 percent of all mobile-cellular subscriptions. The mobile-cellular prepaid sub-basket is largely based, but does not entirely follow, the 2009 methodology of the OECD low-user basket. (International Telecommunication Union) (m)

Mobile-cellular telephone subscriptions refers to the number of subscriptions to a public mobile-telephone service that provide access to the PSTN (public switched telephone network) using cellular technology. The indicator includes (and is split into) the number of postpaid subscriptions and the number of active prepaid accounts (i.e., that have been used during the last three months). The indicator applies to all mobile-cellular subscriptions that offer voice communications. It excludes subscriptions via data cards or USB modems, subscriptions to public mobile data services, private trunked mobile radio, telepoint, radio paging, and telemetry services. (International Telecommunication Union) (w)

Online service index is one of the three component indicators for the United Nation's e-Government Development Index (EGDI). Online service index measures the level of sophistication and usability of each country's national website, including the national portal, e-service portal, e-participation portal, and government ministries' websites. Given the global trends of citizen-centric approach, the score takes account of the demand side of e-service (user uptake). A value of 0 indicates the lowest presence, a value of 1 the highest. Data listed for 2015 are for 2016. (United Nations Department of Economic and Social Affairs and United Nations Division for Public Administration and Development Management) (m)

Population is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship. Data are midyear estimates. (World Bank) (s)

Population covered by at least a 3G mobile network refers to the percentage of inhabitants that are within range of at least a 3G mobile-cellular signal, irrespective of whether or not they are subscribers. This is calculated by dividing the number of inhabitants that are covered by at least a 3G mobile-cellular signal by the total population and multiplying by 100. (International Telecommunication Union) (w)

Regulatory treatment of VoIP indicates whether the country has any regulatory treatment on Voice over Internet Protocol (VoIP). The status is categorized as banned, closed, no framework, or allowed. "Closed" means that wholesale IP voice is permitted, but retail VoIP is banned, as well as cases where only the incumbent is licensed to provide VoIP. (A = allowed, B = banned, C = closed, No = no framework). Data are based on self-reported information submitted by country administrations. (International Telecommunication Union)

Secure Internet servers are the number of servers using encryption technology for Internet transactions. (Netcraft) (w)

Separate telecommunications/ICT regulator indicates whether the country has a separate telecommunications/ICT regulatory authority independent in terms of finance, structure, and decision making from the operators and the sector ministry. Data are based on self-reported information submitted by country administrations. (International Telecommunication Union)

Status of main fixed-line telephone operator indicates whether the incumbent fixed-line operator is a public or private entity. Public refers to a fully state-owned operator that has remained 100 percent government-owned since its creation or has been re/nationalized; private refers to an operator that is 100 percent private, either as a result of a privatization or created as such; and mixed refers to a partially private operator that has a portion of its shares sold to either a private operator or to the public (e.g., through initial public offerings or employee stock ownership plan), with the government remaining one of its shareholders. Data are based on selfreported information submitted by country administrations. (International Telecommunication Union)

Telecommunications investment refers to the investment during the financial year in telecommunication services (including fixed, mobile, and Internet services) for acquiring or upgrading property and networks. Property includes tangible assets such as plant, intellectual, and nontangible assets such as computer software. The indicator is a measure of investment in telecommunication infrastructure in the country, and includes expenditure on initial installations and additions to existing installations where the usage is expected to be over an extended period. It excludes expenditure on research and development (R&D), annual fees for operating licenses, and the use of radio spectrum. Data listed for 2015 are for 2014. (International Telecommunication Union) (m)

Telecommunications revenue refers to revenue earned from retail fixed telephone, mobile-cellular, Internet, and data services offered by telecommunication operators (both network and virtual) offering services within the country. Revenue (turnover) consists of retail telecommunication service earnings (therefore excluding revenue from wholesaling activities) during the financial year under review. It is calculated as percentage of GDP. Data listed for 2015 are for 2014. (International Telecommunication Union) (w)

Urban population refers to people living in urban areas as defined by national statistical offices. It is calculated using World Bank population estimates and urban ratios from the United Nations World Urbanization Prospects. Aggregation of urban and rural population may not add up to total population because of different country coverages. (United Nations) (s)

VoIP is Voice over Internet Protocol, a generic term to describe the techniques used to carry voice traffic over IP.





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