The Little Data Book on Information and Communication Technology

Econom	ic and	social	context

Sector structure

Sector efficiency and capacity

Sector performance

Access

U	s	a	g	e
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Quality

Affordability

Trade

Applications





International Telecommunication Union

2017 THE LITTLE DATA BOOK ON INFORMATION AND COMMUNICATION TECHNOLOGY





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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	7,347
Urban population (% of total)	51	54
GNI per capita, <i>World Bank Atlas</i> method (\$)	9,355	10,433 2.6
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	2.3	2.0
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	0.7	0.4
Telecommunications revenue (% of GDP)	2.7 18.4	2.4 18.8
Telecommunications investment (% of revenue)	10.4	10.0
Sector performance		
Access	17.8	14.3
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	76.5	14.5 98.6
Fixed-broadband subscriptions (per 100 people)	70.5	98.0 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	9.8
Fixed-broadband sub-basket (\$ a month)	26.3	20.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	15.0	8.0
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

	2010	2015
Economic and social context		
Population (millions)	2,205	2,279
Urban population (% of total)	52	57
GNI per capita, World Bank Atlas method (\$)	7,232	9,602
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.6 95	4.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	95 72	77
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	
Telecommunications investment (% of revenue)	19.1	
Sector performance		
Access	22.3	17.3
Fixed-telephone subscriptions (per 100 people) 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)	338	176
Individuals using the Internet (%)	34.2	49.8
Quality		65
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 12 974	37,552
	12,014	51,552
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 19.1
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	20.0 16.7	26.3
	20.1	
Applications Online service index (0-1, 1=highest presence)	0.14	0.35
Secure Internet servers (per million people)	91.4	143.0
· · · · · · · · · · · · · · · · · · ·		

Europe & Central Asia

Economic and social context Population (millions) 889 900 Urban population (% of total) 70 77 GNI per capita, World Bank Atlas method (\$) 24,350 24,14 GDP growth, 2005-10 and 2010-15 (avg. annual %) 1.0 1.0 Adult literacy rate (% ages 15 and older) 99 99 Gross primary, secondary, and tertiary school enrollment (%) 88 92 Sector structure Separate telecommunications/ICT regulator 54 Status of main fixed-line telephone operator 54 54
Urban population (% of total) 70 7 GNI per capita, World Bank Atlas method (\$) 24,350 24,14 GDP growth, 2005–10 and 2010–15 (avg. annual %) 1.0 1.0 Adult literacy rate (% ages 15 and older) 99 Gross primary, secondary, and tertiary school enrollment (%) 88 9 Sector structure 9 Separate telecommunications/ICT regulator 10 10
GNI per capita, World Bank Atias method (\$) 24,350 24,14 GDP growth, 2005-10 and 2010-15 (avg. annual %) 1.0 1.1 Adult literacy rate (% ages 15 and older) 99 Gross primary, secondary, and tertiary school enrollment (%) 88 9. Sector structure Separate telecommunications/ICT regulator
GDP growth, 2005-10 and 2010-15 (avg. annual %) 1.0 1.1 Adult literacy rate (% ages 15 and older) 99 Gross primary, secondary, and tertiary school enrollment (%) 88 9. Sector structure Separate telecommunications/ICT regulator 90
Adult literacy rate (% ages 15 and older) 99 Gross primary, secondary, and tertiary school enrollment (%) 88 9. Sector structure Separate telecommunications/ICT regulator
Gross primary, secondary, and tertiary school enrollment (%) 88 9. Sector structure Separate telecommunications/ICT regulator
Sector structure Separate telecommunications/ICT regulator
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.
Telecommunications investment (% of revenue) 16.2 19.
Sector performance
Access
Fixed-telephone subscriptions (per 100 people) 37.5 32.
Mobile-cellular telephone subscriptions (per 100 people)120.1120.1126.1
Fixed-broadband subscriptions (per 100 people) 19.0 24.
Households with a computer (%) 63.7 76.3
Households with Internet access at home (%) 58.2 77.
Usage
Int'l. voice traffic, total (minutes/subscription/month)
Domestic mobile traffic (minutes/subscription/month) 119 14
Individuals using the Internet (%) 56.1 71.
Quality
Population covered by at least a 3G mobile network (%) 85 85
International Internet bandwidth (bit/s per Internet user) 68,905 122,14
Affordability
Mobile-cellular sub-basket (\$ a month) 21.3 9.
Fixed-broadband sub-basket (\$ a month) 22.8 14.
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 12.8 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
Online service index (0-1, 1=highest presence) 0.39 0.55
Secure Internet servers (per million people) 383.4 616.1

Latin America & Caribbean

	2010	2015
Economic and social context		
Population (millions)	599	633
Urban population (% of total)	78	80
GNI per capita, World Bank Atlas method (\$)	7,989	8,939
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.5	2.0
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	92 82	 83
	02	
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)	3.1	
Telecommunications investment (% of revenue)	18.3	15.7
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	17.9	17.4
Mobile-cellular telephone subscriptions (per 100 people)	96.4	110.4
Fixed-broadband subscriptions (per 100 people)	6.7	10.5
Households with a computer (%)	30.8	47.0
Households with Internet access at home (%)	22.4	43.4
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		
Domestic mobile traffic (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)	13,430	43,386
Affordability		
Mobile-cellular sub-basket (\$ a month)	16.9	13.6
Fixed-broadband sub-basket (\$ a month)	24.9	21.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	17.9 17.8	12.9 14.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	17.8	14.4
Trade		<u> </u>
ICT goods exports (% of total goods exports)	7.4	6.3
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	12.4	11.1
Applications	0.00	0.27
Online service index (0-1, 1=highest presence)	0.28 28.3	0.37 56.6
Secure Internet servers (per million people)	20.3	50.0

Middle East & North Africa

	2010	2015
Economic and social context		
Population (millions)	385	424
Urban population (% of total)	63	64
GNI per capita, World Bank Atlas method (\$)	6,943	8,207
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.7 80	3.0
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	80 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		
Telecommunications revenue (% of GDP)	2.9	2.2
Telecommunications investment (% of revenue)	20.8	
Sector performance		
Access	16.7	15.3
Fixed-telephone subscriptions (per 100 people)	92.9	15.3
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband 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)	7.1	12.7
Domestic mobile traffic (minutes/subscription/month)		
Individuals using the Internet (%)	24.9	43.7
Quality Population covered by at least a 3G mobile network (%)	51	76
International Internet bandwidth (bit/s per Internet user)		29.072
	0,000	20,012
Affordability	12.2	10.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	25.3	10.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	23.3	17.5
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	13.7	13.0
Trade		
ICT goods exports (% of total goods exports)	1.7	
ICT goods imports (% of total goods imports)	5.2	
ICT service exports (% of total service exports)		
Applications	0.07	0 55
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.27 17.5	0.55 29.2
Secure internet servers (per minion people)	11.0	23.2

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	
Telecommunications investment (% of revenue)	17.0	31.9
Sector performance		
Access	48.5	38.2
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	48.5	
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)	41,790	89,316
Affordability		
Mobile-cellular sub-basket (\$ a month)	37.3	30.4
Fixed-broadband sub-basket (\$ a month)	23.1	32.9
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	54.4	30.3
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	
Augliophicus		
Applications Online service index (0-1, 1=highest presence)	0.91	0.93
Secure Internet servers (per million people)	1,425.8	
	1,720.0	1,010.1

South Asia

	2010	2015
Economic and social context		
Population (millions)	1,629	1,744
Urban population (% of total)	31	33
GNI per capita, World Bank Atlas method (\$)	1,191	1,533
GDP growth, 2005–10 and 2010–15 (avg. annual %)	7.1	6.4
Adult literacy rate (% ages 15 and older)	67	
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		1.0
Telecommunications revenue (% of GDP)	2.4	1.8
Telecommunications investment (% of revenue)	12.2	16.2
Sector performance		
Access		4.0
Fixed-telephone subscriptions (per 100 people)	2.9	1.9
Mobile-cellular telephone subscriptions (per 100 people)	59.6	78.4
Fixed-broadband subscriptions (per 100 people)	0.8	1.4
Households with a computer (%)	6.6	13.8
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	2020	2020
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	
Gross primary, secondary, and tertiary school enrollment (%)	58	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	4.5	
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 5.6	0.5 10.0
Households with a computer (%) Households with Internet access at home (%)	4.3	10.0
	4.5	14.5
Usage	F 1	
Int'l. voice traffic, total (minutes/subscription/month)	5.1 56	 68
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	9.8	22.4
	9.0	22.4
Quality		C1
Population covered by at least a 3G mobile network (%)	20 709	61 26,590
International Internet bandwidth (bit/s per Internet user)	30,198	20,390
Affordability	10.0	8.7
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	16.3 50.1	31.6
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	19.7	8.5
Mobile-b'band, postpaid nandset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		14.0
Trada		
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
······	-	

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.

	2010	2015
Economic and social context		
Population (millions)	557	638
Urban population (% of total)	29	31
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	502 5.8	620 5.4
Adult literacy rate (% ages 15 and older)	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	1.0	0.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	28.7	60.0
Fixed-broadband subscriptions (per 100 people)	0.1	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		51
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	1,753	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
	5.5	1.5

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)	83	
Gross primary, secondary, and tertiary school enrollment (%)	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 officiency and conceity		
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 (%)	0.170	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
Teada		
Trade ICT goods exports (% of total goods exports)	14.6	13.9
ICT goods imports (% of total goods imports)	13.3	12.8
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	2010	2010
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 %)	6.1	5.4
Adult literacy rate (% ages 15 and older)	73	
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		
Fixed-telephone subscriptions (per 100 people)	5.6	3.5
Mobile-cellular telephone subscriptions (per 100 people)	67.6	90.5
Fixed-broadband subscriptions (per 100 people)	1.0	1.9
Households with a computer (%)	10.0	19.3
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 (%)	 E 400	
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 10.9	14.3 5.8
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	10.9	5.8 10.0
	15.0	10.0
Trade	3.9	5.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	3.9 7.3	5.7 7.6
ICT service exports (% of total service exports)	44.1	48.0
Applications		
Applications Online service index (0-1, 1=highest presence)	0.18	0.26
Secure Internet servers (per million people)	2.4	7.4
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Upper middle income

	2010	2015
Economic and social context		
Population (millions)	2,493	2,594
Urban population (% of total)	60	64
GNI per capita, World Bank Atlas 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 officiency and conceity		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.7	2.1
Telecommunications investment (% of revenue)	18.4	18.8
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	20.9	17.3
Mobile-cellular telephone subscriptions (per 100 people)	81.7	105.1
Fixed-broadband 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		
Population covered by at least a 3G mobile network (%)		69
International Internet bandwidth (bit/s per Internet user)	10,564	26,098
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		
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
Secure Internet servers (per million people)	13.9	34.7

Low and middle income

	2010	004 F
Economic and social context	2010	2015
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	4.7
Adult literacy rate (% ages 15 and older)	81	
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		
Fixed-telephone subscriptions (per 100 people)	11.8	9.1
Mobile-cellular telephone subscriptions (per 100 people)	70.0	93.6
Fixed-broadband subscriptions (per 100 people)	4.1	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		
Population covered by at least a 3G mobile network (%)		66
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 12.8	18.3 7.8
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	12.8	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		
Online service index (0-1, 1=highest presence)	0.18	0.27
Secure Internet servers (per million people)	7.3	18.3

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 (\$)		41,366
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		
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	2.5
Telecommunications investment (% of revenue)	15.6	18.8
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	47.4	41.2
Mobile-cellular telephone subscriptions (per 100 people)	108.8	124.5
Fixed-broadband subscriptions (per 100 people)	26.3 76.6	31.0 83.2
Households with a computer (%) 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)	177	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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.6 25.0	10.4 14.4
Trade		
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

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

	Countr	Country data		Country data		in		ine	Low- income
	2010	2015	group 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	Р	Р							
Internet service	Р	С							
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)	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	0.0	0.3						
Households with a computer (%)	1.9ª	2.9ª							
Households with Internet access at home (%)	1.5ª	3.9ª	7.1						
Usage									
Int'l. voice traffic, total (minutes/subscription/month)									
Domestic mobile traffic (minutes/subscription/month)			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						
Afferdebiller									
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							
Applications	0.23	0.18	0.11						
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.23	1.4	1.5						
Secure internet servers (per minion people)	0.1	1.4	1.5						

Albania

Europe & Central Asia

Upper middle income

			Upper middle- income						
		Country data		Country data		Country data		Country data	
	2010	2015	2015						
Economic and social context			0 50 4						
Population (millions)	3 52	3 57	2,594 64						
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	4,360	4,290	8,186						
GDP growth, 2005–10 and 2010–15 (avg. annual %)	5.3	1.8	4.5						
Adult literacy rate (% ages 15 and older)	97	98							
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)	Р	С							
International gateway(s) Mobile telephone service	P	P							
Internet service	r C	r C							
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	10.0	7 1	17.0						
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	10.6 85.5	7.1 106.4	17.3 105.1						
Fixed-broadband subscriptions (per 100 people)	3.4	7.6	105.1						
Households with a computer (%)	15.6ª	25.74							
Households with Internet access at home (%)	13.7ª	35.5							
Usage									
Int'l. voice traffic, total (minutes/subscription/month)	21.8	28.2	2.3						
Domestic mobile traffic (minutes/subscription/month)	141.8	165.6	173.1						
Individuals using the Internet (%)	45.0	63.34	52.1						
Quality	86	99	69						
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	11,992	30,660	26,098						
Affordability									
Mobile-cellular sub-basket (\$ a month)	25.8	6.4	8.5						
Fixed-broadband sub-basket (\$ a month)	10.7	9.5	15.5						
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	4.6	4.4	7.7						
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	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	0.21	0 AF	0.07						
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.31 9.3	0.45 37.7	0.37 34.7						
Secure internet servers (her minion heable)	9.0	51.1	54.7						

Algeria

Middle East & North Africa

Upper middle income

			Upper middle- income		
		country data		ountry data gr	
	2010	2015	2015		
Economic and social context	20	40	0.504		
Population (millions) Urban population (% of total)	36 68	40 71	2,594 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	M			
Mobile telephone service	P	C			
Internet service	С	C R			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	 A	A			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.1	2.9	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 (%)	7.9 88.4 2.4 20.0ª	8.0 113.0 5.6 37.0	17.3 105.1 15.4 48.7		
Households with Internet access at home (%)	9.0ª	31.9	52.2		
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	4.4 164.3 12.5	4.9 166.6 38.2	173.1		
Quality					
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 7,771	46 30,119	69 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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		6.0 19.9	7.7 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					
Online service index (0-1, 1=highest presence)	0.10	0.08	0.37		
Secure Internet servers (per million people)	0.9	2.5	34.7		

American Samoa

East Asia & Pacific	Upper m	pper middle incom		
	Countr	Country data		
	2010	2015	group 2015	
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 (\$)				
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)			4.5	
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 Fixed-telephone subscriptions (per 100 people)	18.7	18.0	17.3	
Mobile-cellular telephone subscriptions (per 100 people)		10.0	405 4	
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)			2.3 173.1	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)			52.1	
individuals using the internet (%)			J2.1	
Quality			<u></u>	
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)			69 26,098	
international internet bandwidth (bit/s per internet user)			20,090	
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 Online service index (0-1, 1=highest presence)			0.37	
Socure Internet corvers (per million people)	25.0	72.0	24.7	

Secure Internet servers (per million people)

21

34.7

35.9

72.0

Andorra

Europe & Central Asia

High income

Z010 Z015 Z015 Economic and social context Population (millions) 0.08 0.07 1,187 Urban population (% of total) 88 85 81 60 GNI per capita, World Bank Atlas method (\$) 41,670 43,270 41,328 41,4270 41,3270 41,328 41,4270 41,3270 41,328 41,427 5170 5170 5170 5170 5170 5170 5170 5170		Country data		High- income group
Population (millions) 0.08 0.07 1,187 Urban population (% of total) 88 85 81 GNI per capital, World Bank Alas method (\$) 41,670 43,270 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) -3.3 -2.2 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Sector structure No No No Status of main fixed-line telephone operator Public Public Public Public Level of competition (competition, partial comp., monopoly) Internet service M M Internet service M M A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.6 3.4 2.5 Telecommunications revenue (% of GDP) 3.6 3.4 12.45 Fixed-telephone subscriptions (per 100 people) 84.1 124.5 Fixed-broadband subscriptions (per 100 people) 34.1 83.24 82.74		2010	2015	
Urban population (% of total) 88 85 81 GNI per capita, World Bank Atlas method (\$) 41,670 43,270 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) -3.3 -2.2 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator No No Status of main fixed-line telephone operator Public Public Public Public Public Public Public Internet service M <td>Economic and social context</td> <td></td> <td></td> <td></td>	Economic and social context			
GNI per capita, World Bank Atlas method (\$) 41,670 43,270 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) -3.3 -2.2 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator No No No Status of main fixed-line telephone operator Public Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) M M Mobile telephone service M M A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.6 3.4 2.5 Telecommunications investment (% of revenue) 18.8 Sector performance Access 3.3 3.10 Fixed-broadband 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 (%) 67.2 84.8 ^a 85	Population (millions)	0.08	0.07	1,187
GDP growth, 2005-10 and 2010-15 (avg. annual %) -3.3 -2.2 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure No No No Settus of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) M M International gateway(s) M M M Mobile telephone service M Internet service M A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.6 3.4 2.5 Telecommunications investment (% of revenue) 18.8 124.5 Fixed-telephone subscriptions (per 100 people) 49.0 48.0 41.2 Mobile-cellular telephone subscriptions (per 100 people) 31.5 37.9 31.0 Households with a computer (%) 83.2 82.7 83.2 82.7 83.2 Households with internet access at home (%) 67.2 84.8 ^a	Urban population (% of total)	88	85	81
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Sector structure Public Public Public Level of competition (competition, partial comp., monopoly) M M International gateway(s) M M Mobile telephone service M M Internet service M M Foreign ownership (not allowed, restricted, allowed) No A Sector efficiency and capacity Internet service M Telecommunications revenue (% of GDP) 3.6 3.4 2.5 Telecommunications investment (% of revenue) 18.8 Sector performance A 42.0 41.2 Mobile-cellular telephone subscriptions (per 100 people) 84.1 83.2 12.4 Mobile-cellular telephone subscriptions (per 100 people) 84.1 88.0 124.5 Fixed-broadband subscriptions (per 100 people) 84.1 85.0 124.5 37.9 31.0 Households with a computer (%) 67.2 84.8 ^a 85.0		,	., .	,
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 Public Level of competition (competition, partial comp., monopoly) M M M International gateway(s) M M M M Mobile telephone service M M A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.6 3.4 2.5 Telecommunications revenue (% of GDP) 3.6 3.4 2.5 18.8 Sector performance A A A A Mobile-cellular telephone subscriptions (per 100 people) 49.0 48.0 41.2 Mobile-cellular telephone subscriptions (per 100 people) 83.2ª 82.7ª 83.2 Households with a computer (%) 67.2 48.8 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 91.9 67.2 Int'l. voice traffic, total (minutes/subscription/month) 91.9 67.2 <td></td> <td>-3.3</td> <td>-2.2</td> <td>1.5</td>		-3.3	-2.2	1.5
Separate telecommunications/ICT regulatorNoNoStatus of main fixed-line telephone operatorPublicPublicLevel of competition (competition, partial comp., monopoly)MMInternational gateway(s)MMMobile telephone serviceMMForeign ownership (not allowed, restricted, allowed)NoAReg. treatment of VoIP (banned, closed, no framework, allowed)ASector efficiency and capacityElecommunications revenue (% of GDP)3.63.42.5Telecommunications investment (% of revenue)18.8Sector performanceAAAAccessFixed-telephone subscriptions (per 100 people)84.188.1124.5Fixed-belphone subscriptions (per 100 people)31.537.931.0Households with a computer (%)83.2ª82.2ª82.2ª83.2ªHouseholds with a computer (%)81.096.9ª81.0UsageInt'l. voice traffic, total (minutes/subscription/month)91.967.2Domestic mobile traffic (minutes/subscription/month)959799International Internet bandwidth (bit/s per Internet user)36,44782,857134,761Affordability17.425.2Mobile-cellular sub-basket (\$ a month)15.114.4Fixed-broadband sub-basket (\$ a month)31.014.2Fixed-broadband sub-basket (\$ a month)17.425.2Mobile-cell				 95
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Individuals using the Internet (%)81.096.9ª81.0QualityPopulation covered by at least a 3G mobile network (%)959799International Internet bandwidth (bit/s per Internet user)36,44782,857134,761Affordability31.014.2Fixed-broadband sub-basket (\$ a month)17.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)24.910.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)55.115.114.4Trade25.021.79.59.5ICT goods exports (% of total goods exports)7.16.711.2ICT service exports (% of total service exports)32.032.0Applications0.230.430.67				195.9
QualityPopulation covered by at least a 3G mobile network (%)959799International Internet bandwidth (bit/s per Internet user)36,44782,857134,761AffordabilityMobile-cellular sub-basket (\$ a month)31.014.2Fixed-broadband sub-basket (\$ a month)17.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)24.910.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)55.115.114.4TradeICT goods exports (% of total goods exports)25.021.79.5ICT goods imports (% of total goods imports)7.16.711.2ICT service exports (% of total service exports)32.0ApplicationsOnline service index (0-1, 1=highest presence)0.230.430.67				
Population covered by at least a 3G mobile network (%)959799International Internet bandwidth (bit/s per Internet user)36,44782,857134,761Affordability Mobile-cellular sub-basket (\$ a month)31.014.2Fixed-broadband sub-basket (\$ a month)17.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)24.910.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month).55.115.114.4TradeICT goods exports (% of total goods exports)25.021.79.5ICT goods imports (% of total goods imports)7.16.711.2ICT service exports (% of total service exports)32.0Applications Online service index (0-1, 1=highest presence)0.230.430.67				
International Internet bandwidth (bit/s per Internet user) 36,447 82,857 134,761 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, prostpaid computer-based, 1 GB (\$ a month) 25.1 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 0.23 0.43 0.67		95	97	99
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) 25.1 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 0.23 0.43 0.67		36,447	82,857	134,761
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) 25.1 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 0.23 0.43 0.67	Affordability			
Fixed-broadband sub-basket (\$ a month)17.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)24.910.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month).5.115.114.4TradeICT goods exports (% of total goods exports)25.021.79.5ICT goods imports (% of total goods imports)7.16.711.2ICT service exports (% of total service exports)32.0Applications0.230.430.67			31.0	14.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)24.910.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)25.115.114.4TradeICT goods exports (% of total goods exports)25.021.79.5ICT goods imports (% of total goods imports)7.16.711.2ICT service exports (% of total service exports)32.0Applications0.230.430.67				
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 0.23 0.43 0.67			24.9	10.4
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 0.23 0.43 0.67	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	55.1	15.1	14.4
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 0.23 0.43 0.67	Trade			
ICT service exports (% of total service exports) .32.0 Applications 0.23 0.43 0.67		25.0	21.7	9.5
Applications Online service index (0-1, 1=highest presence) 0.23 0.43 0.67		7.1	6.7	11.2
Online service index (0-1, 1=highest presence)0.230.430.67				32.0
Online service index (0-1, 1=highest presence)0.230.430.67	Applications			
Secure Internet servers (per million people) 924.0 1,631.8 1,194.6	••	0.23	0.43	0.67
	Secure Internet servers (per million people)	924.0	1,631.8	1,194.6

Angola

Sub-Saharan Africa

Upper middle income

			Upper middle- income		
	Country	2010 2015		country data gi	
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) Gross primary, secondary, and tertiary school enrollment (%)	 60	71 	 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)	М	М			
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)	No	No			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.2 34.2	1.8 18.9	2.1 18.8		
	54.2	10.5			
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	105.1		
Fixed-broadband subscriptions (per 100 people)	0.1	0.7	15.4		
Households with a computer (%)	7.1ª	11.1			
Households with Internet access at home (%)	5.7ª	10.2ª	52.2		
Usage 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) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	133.4 94.3	40.8 15.0	15.5 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	0.24	0.20	0.07		
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.34 2.5	0.30 5.5	0.37 34.7		
	2.5	5.5	57.1		

Antigua and Barbuda

Latin America & Caribbean

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)	26	24	81
GNI per capita, World Bank Atlas method (\$)	12,620	13,390	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	-0.1	2.2	1.5
Adult literacy rate (% ages 15 and older)		99	
Gross primary, secondary, and tertiary school enrollment (%)	84		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)	M	Р	
Mobile telephone service Internet service	P P	P P	
Foreign ownership (not allowed, restricted, allowed)	P A	P A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
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)	41.6	13.1	41.2
Mobile-cellular telephone subscriptions (per 100 people)	192.6	137.2	124.5
Fixed-broadband subscriptions (per 100 people)	8.2	13.1	31.0
Households with a computer (%)	48.9ª	57.6ª	
Households with Internet access at home (%)	40.0ª	56.3ª	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	19.0		
Domestic mobile traffic (minutes/subscription/month)	126.7	148.9	195.9
Individuals using the Internet (%)	47.0ª	65.2ª	81.0
Quality			
Population covered by at least a 3G mobile network (%)	0	98	99
International Internet bandwidth (bit/s per Internet user)	29,269	71,825	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	25.3	23.4	14.2
Fixed-broadband sub-basket (\$ a month)	54.9	54.9	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	27.8	9.3	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	29.3	30.7	14.4
Trade			
ICT goods exports (% of total goods exports)	2.2	2.2	9.5
ICT goods imports (% of total goods imports)	3.1	3.8	11.2
ICT service exports (% of total service exports)	6.4	6.7	32.0
Applications			
Applications Online service index (0-1, 1=highest presence)	0.12	0.42	0.67
Secure Internet servers (per million people)	1,100.5	305.0	1,194.6
			,

Argentina

Latin America & Caribbean

Upper middle income

			Upper middle- income
	Countr 2010	y data 2015	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 %) Adult literacy rate (% ages 15 and older)	4.2	0.9 98	4.5
Gross primary, secondary, and tertiary school enrollment (%)	99	100	 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)			
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			
Telecommunications revenue (% of GDP)	2.7 15.9	2.4 21.2	2.1 18.8
Telecommunications investment (% of revenue)	15.9	21.2	10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	24.6	24.0	17.3
Mobile-cellular telephone subscriptions (per 100 people)	141.4	143.9	105.1
Fixed-broadband subscriptions (per 100 people)	10.0	16.1	15.4
Households with a computer (%)	47.0	65.1	
Households with Internet access at home (%)	34.0 ^a	55.5	52.2
Usage			2.3
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	 19.5	 119.2	
Individuals using the Internet (%)	45.0ª		
	1010		0211
Quality Population covered by at least a 3G mobile network (%)		90	69
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	
Fixed-broadband sub-basket (\$ a month)	24.3	41.2	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		10.0	
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	
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

	Country data		Lower middle-
			income group 2015
	2010	2015	2015
Economic and social context Population (millions)	3	3	2,927
Urban population (% of total)	5 64	63	2,927
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	C	C	
Foreign ownership (not allowed, restricted, allowed)	A A	A A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	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) Mobile-cellular telephone subscriptions (per 100 people)	20.0 130.4	18.4 115.1	3.5 90.5
Fixed-broadband subscriptions (per 100 people)	3.2	9.6	1.9
Households with a computer (%)	20.0	64.74	
Households with Internet access at home (%)	13.6	56.2ª	24.3
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	58.24	
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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	12.5 29.0	8.4 7.3	5.8 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			
Online service index (0-1, 1=highest presence)	0.17	0.61	0.26
Secure Internet servers (per million people)	18.2	49.0	7.4

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, <i>World Bank Atlas</i> method (\$)	 -3.9		41,366 1.5
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	-3.9	 98	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			
Telecommunications revenue (% of GDP)	5.6 15.8		2.5 18.8
Telecommunications investment (% of revenue)	15.0		10.0
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	76.6 ^a	
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	
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) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			25.2 10.4
Mobile-b'band, postpaid computer-based, 500 MB (\$ a month)			10.4
			1
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			
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) 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)	22 89 46,530 2.9	24 89 60,070 2.7	1,187 81 41,366 1.5
Gross primary, secondary, and tertiary school enrollment (%)	111	116	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 C C A A	Yes Mixed C C C A A	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.3 16.5	2.5	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 (%)	47.4 100.4 24.6 81.1ª 74.1ª		41.2 124.5 31.0 83.2 85.0
Usage Int'I. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by at least a 36 mobile network (%)	 76.0ª 99	 84.6 99	 195.9 81.0 99
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	99 41,110		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)	27.7 36.9 20.7 41.4	14.7 37.5 15.0 18.8	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)	1.0 10.4 17.7	1.1 9.2 19.1	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.77 1,784.6	0.93 1,460.9	0.67 1,194.6
Austria

Europe & Central Asia

High income

	Count	Country data		Country data i		Country data i		Country data i		Country data i		i 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 %)	8 66 49,350 1.1	9 66 47,120 0.9	1,187 81 41,366 1.5										
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 94	 95	 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	Yes Mixed C C C	Yes Mixed C C C											
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	R No											
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	1.6 14.6	1.1 15.3	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 (%)	40.4 145.7 24.4 76.2 72.9	42.2 157.4 28.6 82.1 82.4	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 (%)	16.6 149.5 75.2	15.6 131.4 83.9	 195.9 81.0										
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	96 39,584	98ª 90,501	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)	13.9 39.3 5.1 5.1	6.7 23.5 5.5 6.5	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)	3.9 5.8 25.0	4.3 5.3 31.5	9.5 11.2 32.0										
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.48 858.7	0.75 1,500.5	0.67 1,194.6										

Azerbaijan

Europe & Central Asia	Upper m	income	
	Countr	v data	Upper middle- income
	2010	2015	group 2015
Economic and social context	2020	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	8,186
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	С	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) A	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.6	2.9	
Telecommunications investment (% of revenue)	18.3	18.0	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	16.6	18.7	17.3
Mobile-cellular telephone subscriptions (per 100 people)	100.1	111.3	
Fixed-broadband subscriptions (per 100 people)	5.2	19.8	
Households with a computer (%)	30.3	62.4	
Households with Internet access at home (%)	37.4ª	76.7	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	6.7	5.4	2.3
Domestic mobile traffic (minutes/subscription/month)	79.2	155.2	173.1
Individuals using the Internet (%)	46.0	77.0	52.1
Quality			
Population covered by at least a 3G mobile network (%)	69	97	69
International Internet bandwidth (bit/s per Internet user)	9,083	35,127	26,098
Affordability			
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
Trada			

Trade 0.0 0.0 15.7 ICT goods exports (% of total goods exports) 3.5 ICT goods imports (% of total goods imports) 3.0 14.4 ICT service exports (% of total service exports) 20.1 10.7 25.7 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

	Count	Country data		Country data		Country data		Country data		Country data i		ii Country data	Country data		Country data	High- income group
	2010	2015	2015													
Economic and social context Population (millions)	0.36	0.39	1,187													
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	83 21,660	21,310	81 41,366													
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	-0.7 	1.0	1.5													
Gross primary, secondary, and tertiary school enrollment (%)			95													
Sector structure																
Separate telecommunications/ICT regulator	Yes Public															
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	PUDIIC	wixed														
International gateway(s)	С	С														
Mobile telephone service	Μ															
Internet service	С	С														
Foreign ownership (not allowed, restricted, allowed)	A	R														
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A														
Sector efficiency and capacity																
Telecommunications revenue (% of GDP)		7.6	2.5													
Telecommunications investment (% of revenue)		8.4	18.8													
Sector performance																
Access																
Fixed-telephone subscriptions (per 100 people)	35.9 118.8	31.2 80.3	41.2 124.5													
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	6.9	20.9	31.0													
Households with a computer (%)	0.5	20.3 69.2ª														
Households with Internet access at home (%)		61.1ª														
Usage																
Int'l. voice traffic, total (minutes/subscription/month)		25.3														
Domestic mobile traffic (minutes/subscription/month)		12.9	195.9													
Individuals using the Internet (%)	43.0	a 78.0a	81.0													
Quality																
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 4 000	98 225,877	99 134 761													
	1,000	220,011	101,101													
Affordability	475	47 5	110													
Mobile-cellular sub-basket (\$ a month)	17.5 30.0	17.5 30.0	14.2 25.2													
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	30.0	21.5	25.2 10.4													
Mobile-b'band, prepaid nandset-based, soo Mb (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		26.9	14.4													
Trada																
Trade ICT goods exports (% of total goods exports)	0.2	0.6	9.5													
ICT goods imports (% of total goods imports)	2.8	3.0	11.2													
ICT service exports (% of total service exports)			32.0													
Applications																
Online service index (0-1, 1=highest presence)	0.23	0.34	0.67													
Secure Internet servers (per million people)	352.0	337.6	1,194.6													

Bahrain

Middle East & North Africa

High income

	Counti	Country data		Country data		Country data		Country data		Country data		ountry 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 %)	1 89 18,660 5.6	1 89 20,350 3.9	1,187 81 41,366 1.5										
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	95	96 											
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 P C A A	C P C A A											
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.7 51.0	3.4 11.1	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 (%)	18.2 125.2 12.4 87.0 74.0	20.5 185.3 18.6 94.8 88.7	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 (%)	107.8 191.5 55.0	116.5 228.5 93.5	 195.9 81.0										
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	100 14,528	98 47,205	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)	15.0 26.6 6.7 13.3	11.1 13.3 8.0 18.6	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)	0.3 2.8 23.1	1.7 3.8 21.6	9.5 11.2 32.0										
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.73 97.5	0.94 187.3	0.67 1,194.6										

Bangladesh

South Asia

Lower middle income

			Lower middle-	
	Country	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)		-		
International gateway(s)	M	Р		
Mobile telephone service Internet service	C C	P C		
Foreign ownership (not allowed, restricted, allowed)	A	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	5.7	1.9		
Telecommunications investment (% of revenue)	4.0	29.3		
Sector performance				
Access	0.0	0.5	2.5	
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	0.8 44.9	0.5 83.4	3.5 90.5	
Fixed-broadband subscriptions (per 100 people)	0.3	2.4	1.9	
Households with a computer (%)	3.0	8.2ª		
Households with Internet access at home (%)	1.4	11.0ª	24.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	20.9	23.6	7.5	
Domestic mobile traffic (minutes/subscription/month)	152.2	160.5	152.0	
Individuals using the Internet (%)	3.7ª	14.4ª	28.6	
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)	7.0	2.8	5.8	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	8.4	4.1	10.0	
Trade				
ICT goods exports (% of total goods exports)	0.0		5.7	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.0 36.2	 28.3	7.6 48.0	
וטי שנייונים באטורש (אי טי נטנמי שבויונים באטורש)	50.2	20.3	+0.0	
Applications Online service index (0-1, 1=highest presence)	0.36	0.35	0.26	
Secure Internet servers (per million people)	0.3	1.3	7.4	

Barbados

Latin America & Caribbean

High income

	Count	Country data		country data		i Country data		Country data	i Country data		Country data	High- income group
	2010	2015	2015									
Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atias</i> method (\$)	0.28 32 15,860	31 14,800	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 (%)	0.4 97	0.3 	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	Yes Mixed P 											
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	R A											
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	0.22 457.4	0.67 1,194.6									

Belarus

Europe & Central Asia

Upper middle income

			Upper middle-
		ry data	income group
	2010	2015	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		8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	7.1 100	1.3 100	4.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	97	99	
	51	33	01
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)	Μ	М	
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)	С	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.0	1.8	2.1
Telecommunications investment (% of revenue)	29.2	1.0	
	2012		10.0
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	43.6		
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	63.1	48.7
Households with Internet access at home (%)	31.2	59.1	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	4.6	3.4	2.3
Domestic mobile traffic (minutes/subscription/month)	180.1	173.6	173.1
Individuals using the Internet (%)	31.8	62.2	52.1
•			
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
A 66			
Affordability Mobile-cellular sub-basket (\$ a month)	7.9	4.3	8.5
Fixed-broadband sub-basket (\$ a month)	18.1	7.2	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	3.3	2.5	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.8		
······································	-	-	-
Trade			
ICT goods exports (% of total goods exports)	0.5		
ICT goods imports (% of total goods imports)	2.4		
ICT service exports (% of total service exports)	17.9	23.6	25.7
Applications	0.00	0.00	0.07
Online service index (0-1, 1=highest presence)	0.30 9.5	0.32 62.9	0.37 34.7
Secure Internet servers (per million people)	9.0	02.9	34.1

Belgium

Europe & Central Asia

High income

	Country data		High- income group
	2010	2015	2015
Economic and social context Population (millions)	11 98		1,187 81
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	98 47,810 1.2	44,360	41,366 1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 94	119	 95
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	C C	C C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	A A		
Sector efficiency and capacity	0.0	4.5	0.5
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)	42.4		41.2
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	111.1 30.8		124.5 31.0
Households with a computer (%)	76.7		83.2
Households with Internet access at home (%)	72.7	81.8	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 (%)	97	100	99
		241,805	
Affordability Mobile-cellular sub-basket (\$ a month)	40.2	28.5	14.2
Fixed-broadband sub-basket (\$ a month)	24.8		25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	25.7		10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	25.7	20.9	14.4
Trade ICT goods exports (% of total goods exports)	2.3	1.8	9.5
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	3.5 37.6		11.2 32.0
Applications Online service index (0-1, 1=highest presence)	0.63	0.68	0.67
Secure Internet servers (per million people)	489.1		1,194.6

Belize

Latin America & Caribbean

Upper middle income

			Upper middle-
	Country data		income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.32	0.36	2,594
Urban population (% of total)	45	44	64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	3,970 2.4	4,420 2.7	8,186 4.5
Adult literacy rate (% ages 15 and older)	2.4	83	4.5
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)	С	М	
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)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.2		2.1
Telecommunications investment (% of revenue)	41.7		18.8
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)	2.9 27.1	2.9 32.0	15.4 48.7
Households with a computer (%) Households with Internet access at home (%)	13.6	25.6	
	15.0	20.0	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	35.9		2.3
Domestic mobile traffic (minutes/subscription/month)			173.1
Individuals using the Internet (%)	28.2	41.64	52.1
Quality			
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	0.10	0.20	0.27
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.16 323.4	0.38 411.9	0.37 34.7
ocoure internet servers (her million heable)	525.4	711.9	54.7

Benin

Sub-Saharan Africa

Low income

	Country	Country data		Country data		i Country data	
	2010	2015	group 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	М					
Mobile telephone service	С	С					
Internet service	P	С					
Foreign ownership (not allowed, restricted, allowed)	A	 C					
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 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 (%)	1.4 74.4 0.3 2.0 1.2ª	1.8 85.6 0.7 5.1ª 5.4ª					
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	6.5 32.6 3.1	7.2 40.9 6.8ª	 48.9 9.5				
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	0 2,090	45 3,002	51 4,245				
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)	15.5 50.1 9.8 29.4	8.5 42.3 7.6 14.0	9.4 33.6 8.0 10.8				
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	0.0 1.9 23.0	0.2 1.1 18.8	 3.4 				
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.12 0.1	0.11 3.9	0.11 1.5				

Bermuda

North America

High income

	Country data		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 %)	0.07 100 110,440 0.3	0.07 100 106,140 -3.7	1,187 81 41,366 1.5		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	0.5 69	-5.7	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)	 			
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 (%)	89.0 135.8 61.7 90.0 68.4ª	18.3 57.9 45.7 94.7ª 94.8ª			
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 84.2ª	 98.3ª	 195.9 81.0		
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)		99ª 	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)		 	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)	6.6 3.4 42.0	12.6 3.3 38.9	9.5 11.2 32.0		
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 5,850.4	 7,204.7	0.67 1,194.6		

Bhutan

South Asia

Lower middle income

			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 1,990	39 2,370	39 2,035
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	1,990 9.4	2,370	2,035
Adult literacy rate (% ages 15 and older)	57	64	0.4
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	
Sector efficiency and capacity	0.4	0.0	
Telecommunications revenue (% of GDP)	2.4	2.3	
Telecommunications investment (% of revenue)	21.1	42.2	
Sector performance			
Access	3.7	2.8	3.5
Fixed-telephone subscriptions (per 100 people) 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	
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	11.3		5.7
ICT goods exports (% of total goods exports)	2.5		5.7 7.6
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	2.5 3.9	 0.3	7.0 48.0
Anniliansiana			
Applications Online service index (0-1, 1=highest presence)	0.19	0.24	0.26
Secure Internet servers (per million people)	4.2	16.8	7.4
	7.4	10.0	4

Bolivia

Latin America & Caribbean

Lower middle income

			Lower middle-
	Countr	y data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	10	11	2,927
Urban population (% of total)	66	69	39
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	1,810 4.7	3,080 5.5	2,035 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)	А	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	90.5
Fixed-broadband subscriptions (per 100 people)	0.9	1.6	1.9
Households with a computer (%)	22.8ª	33.14	19.3
Households with Internet access at home (%)	6.0ª	23.8	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	8.8	4.1	7.5
Domestic mobile traffic (minutes/subscription/month)	36.0 22.4ª	35.2 45.1	152.0 28.6
Individuals using the Internet (%)	22.4	45.19	20.0
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	0.0		5.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	3.5	 3.7	5.7 7.6
ICT service exports (% of total service exports)	11.1	8.5	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.30	0.39	0.26
chillie service index (o 1, 1 ingliese presence)			

Bosnia and Herzegovina

Europe & Central Asia

Upper middle income

			Upper middle- income
	Country 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	4	4	2,594
Urban population (% of total)	39	40	64
GNI per capita, <i>World Bank Atlas</i> method (\$)	4,780 2.9	4,680 1.2	8,186 4.5
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	2.9	98	4.5
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	C	 Р	
Internet service	C	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	А	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.1 23.8	5.3 18.7	2.1 18.8
Telecommunications investment (% of revenue)	23.0	10.7	10.0
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	47.14	
Households with Internet access at home (%)	23.0ª	53.64	52.2
Usage	20.1	16.7	0.0
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	20.1 45.2	10.7 60.7	2.3 173.1
Individuals using the Internet (%)	43.2 42.8ª	65.1ª	
0			
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	0.1	0.2	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	2.9	2.9	15.7
ICT service exports (% of total service exports)	7.4	7.7	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.28	0.28	0.37
Secure Internet servers (per million people)	15.6	42.8	34.7

Botswana

Sub-Saharan Africa

Upper middle income

			Upper middle- income
	Countr	y data 2015	group 2015
Economic and social context			
Population (millions)	2	2	2,594
Urban population (% of total)	56	57	64
GNI per capita, World Bank Atlas method (\$)	5,480	6,510	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)	C	Р	
Mobile telephone service	C	P	
Internet service	C A	C A	
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)	3.7		2.1
Telecommunications investment (% of revenue)	21.0		18.8
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	
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)			2.3
Domestic mobile traffic (minutes/subscription/month)	22.8	67.7	173.1
Individuals using the Internet (%)	6.0	27.54	52.1
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 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	0.3	0.1	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	0.5 3.1	2.6	15.7
ICT service exports (% of total service exports)	12.1	12.3	25.7
Applications	0.00		0.67
Online service index (0-1, 1=highest presence)	0.20	0.31	0.37
Secure Internet servers (per million people)	8.3	17.2	34.7

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Brazil

Upper middle income

			Upper middle-
	Countr	y data 2015	group
	2010	2015	2015
Economic and social context			
Population (millions)	199	208	2,594
Urban population (% of total)	84 9,650	86 9,850	64 8,186
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	9,050	9,850	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	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity	2.2		2.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.2 12.5		2.1 18.8
	12.5		
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	105.1
Fixed-broadband subscriptions (per 100 people)	7.2	12.2	15.4
Households with a computer (%)	34.9	53.5	48.7
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	67	04	60
Population covered by at least a 3G mobile network (%)	67 12 602	94 12 624	69 26.009
International Internet bandwidth (bit/s per Internet user)	12,602	43,634	26,098
Affordability			0.5
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 33.2	7.5 12.0	7.7 11.1
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	JJ.2	12.0	11.1
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
Annlications			
Applications Online service index (0-1, 1=highest presence)	0.37	0.60	0.37

British Virgin Islands

Latin America & Caribbean

High income

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.03	0.03 46	1,187
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	45 	40	81 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 (%)	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)			2.5
Telecommunications investment (% of revenue)	4.6	8.3	18.8
Sector performance			
Access	40.0	41 7	41.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	46.9 174.6	41.7 145.8	41.2 124.5
Fixed-broadband subscriptions (per 100 people)	25.3	24.3	31.0
Households with a computer (%)	20.0	24.0	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		0.10	
Population covered by at least a 3G mobile network (%)		91ª	
International Internet bandwidth (bit/s per Internet user)	37,131		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
Applications			a a=
Online service index (0-1, 1=highest presence)	 6 020 F	 E 212 C	0.67
Secure Internet servers (per million people)	0,832.5	5,312.6	1,194.6

Brunei Darussalam

East Asia & Pacific

High income

	Country	y data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	0.39	0.42	1,187
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	76 32,190	77	81 41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	0.1 96	-0.4 97	1.5
Gross primary, secondary, and tertiary school enrollment (%)	78	82	95
Sector structure		N	
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	Yes Public	Yes Public	
Level of competition (competition, partial comp., monopoly)	Р	D	
International gateway(s) Mobile telephone service	P 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)			2.5
Telecommunications investment (% 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)	108.6	108.1	124.5
Fixed-broadband subscriptions (per 100 people)	5.4	8.0	31.0
Households with a computer (%) Households with Internet access at home (%)	79.6ª 65.0ª	93.4ª 81.7ª	
	00.0	01.7	00.0
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			195.9
Individuals using the Internet (%)	53.0ª	71.2ª	81.0
Quality Population covered by at least a 3G mobile network (%)		91	99
International Internet bandwidth (bit/s per Internet user)	23,551		134,761
Affordability			
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	19.5 49.9	9.0 28.4	14.2 25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	56.0	18.6	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	24.0	20.4	14.4
Trade			
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	0.3 4.1	0.2 4.9	9.5 11.2
ICT service exports (% of total service exports)	21.4	4.5	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.28	0.36 203.2	0.67
Secure Internet servers (per million people)	66.1	203.2	1,194.6

Bulgaria

Europe & Central Asia

Upper middle income

			Upper middle- income
	Count 2010	ry data 2015	group 2015
Economic and social context			
Population (millions)	7	7	2,594
Urban population (% of total)	72	74	64
GNI per capita, World Bank Atlas method (\$)	6,840	,	,
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.1	1.4	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	98 81		
	01		
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	I) A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.4	2.6	2.1
Telecommunications investment (% of revenue)	31.8		
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	29.3	23.3	17.3
Mobile-cellular telephone subscriptions (per 100 people)	138.0	129.3	105.1
Fixed-broadband subscriptions (per 100 people)	15.2		
Households with a computer (%)	35.1		
Households with Internet access at home (%)	33.1	59.1	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	7.8		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	108.9 46.2		173.1 52.1
	40.2	50.1	52.1
Quality			
Population covered by at least a 3G mobile network (%)	93		
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)	13.1		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.6	6.2	11.1
Trade			
ICT goods exports (% of total goods exports)	2.5		
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	0.24	0.37
Secure Internet servers (per million people)	74.9		34.7

Burkina Faso

Sub-Saharan Africa

Low income

	Country	y data	Low- income
	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	4.8	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	Р	Р	
Internet service	Р	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	В	
Sector efficiency and capacity		5.0	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)		5.0 9.4	
		5.4	
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 (%)	2.0 ^a	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	0		54
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
Affordability	o 1 - 7	0.7	
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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		8.5 8.5	8.0 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

Burundi

Sub-Saharan Africa

Low income

	Country	y data	Low- income group
	2010	2015	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)			
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)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.8	3.5	
Telecommunications investment (% of revenue)			
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	
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 m	ower middle i		
	Countr	y data	Lower middle- 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 (%)	0.49 62 3,410 6.1 85 74	0.52 66 3,290 2.1 88 77	2,927 39 2,035 5.4 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)	Yes Mixed C C C A d) A	Yes Mixed C C A A		
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	6.9 32.4	3.9 20.7		
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 (%)	14.8 76.3 3.3 20.4 7.1	11.5 127.2 3.0 34.2ª 27.0ª		
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	18.6 65.9 30.0ª	16.5 81.1 43.0ª	7.5 152.0 28.6	
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	50 3,179	87 17,149	 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)	31.6 31.5 5.8 18.5	23.9 10.0 3.5 16.0	6.9 14.3 5.8 10.0	
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	 7.5 4.8	 4.4 7.4	5.7 7.6 48.0	
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.27 14.3	0.17 51.9	0.26 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)	Р	C	
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)	No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.5		
Telecommunications investment (% of revenue)	69.8		
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	2.5	1.6	3.5
Mobile-cellular telephone subscriptions (per 100 people)	56.7	133.0	
Fixed-broadband subscriptions (per 100 people)	0.2 4.3ª	0.5	1.9
Households with a computer (%)		16.0ª	
Households with Internet access at home (%)	1.6ª	21.0ª	24.3
Usage		7.0	
Int'l. voice traffic, total (minutes/subscription/month)		7.8	
Domestic mobile traffic (minutes/subscription/month)	 1.3	44.2 19.0ª	152.0 28.6
Individuals using the Internet (%)	1.5	19.04	20.0
Quality	10	70	
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			
ADDIICATIONS			
Applications Online service index (0-1, 1=highest presence)	0.14	0.17	0.26

Cameroon

Sub-Saharan Africa	Lower m	niddle i	ncome
	0		Lower middle- income
	Countr	-	group
	2010	2015	2015
Economic and social context	01	22	0.007
Population (millions) Urban population (% of total)	21 52	23 54	2,927 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)		Р	
International gateway(s) Mobile telephone service	 C	P P	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A		
Reg. treatment of VoIP (banned, closed, no framework, allowe	d) B	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.5		
Telecommunications investment (% of revenue)	28.0		
Sector performance			
Access	2.6	4.5	3.5
Fixed-telephone subscriptions (per 100 people) 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	12.74	
Households with Internet access at home (%)	1.9	8.6	
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 (%)		50ª	I
International Internet bandwidth (bit/s per Internet user)	363	992	
			- , -
Affordability Mobile-cellular sub-basket (\$ a month)	18.8	10.3	6.9
Fixed-broadband sub-basket (\$ a month)	80.2	50.6	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		10.1	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	0.0	5.7
ICT goods imports (% of total goods imports)	2.6 30.6	4.2 27.4	7.6 48.0
ICT service exports (% of total service exports)	30.0	21.4	40.0

0.15

0.5

0.20

2.5

0.26

7.4

Applications

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

Canada

North America

High income

Country data	group
	2015
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 GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.8 2.1	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 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 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	
Telecommunications revenue (% of GDP)2.52.32.12.12.1	2.5
Telecommunications investment (% of revenue) 20.1 31.9	18.8
Sector performance	
Access 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 86.6 ^a	85.0
Usage	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 366.0 409.0	 195.9
Domestic mobile traffic (minutes/subscription/month)366.0409.0Individuals using the Internet (%)80.388.5ª	81.0
	01.0
Quality Population covered by at least a 3G mobile network (%) 98 99 ^a	99
International Internet bandwidth (bit/s per Internet user) 54,738 135,496 1	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, postpaid computer-based, 1 GB (\$ a month)58.840.5	14.4
Trade ICT goods exports (% of total goods exports) 2.8 1.9	9.5
ICT goods exports (% of total goods exports)2.81.9ICT goods imports (% of total goods imports)8.46.9	9.5 11.2
ICT service exports (% of total service exports)42.740.6	32.0
Applications	
Online service index (0-1, 1=highest presence) 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

	Countr	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 1.5
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 (%)			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		
Sector efficiency and capacity			0.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)		 21.5	2.5 18.8
		21.0	10.0
Sector performance			
Access	67.0	FF 0	41.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	67.3 181.2	55.9 155.5	41.2 124.5
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)	100		134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)			14.2 25.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			25.2 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)	1,927.6	2,284.6	1,194.6

Central African Republic

Sub-Saharan Africa

Low income

group 2010 2015 2015 Economic and social context Population (millions) 4 5 638 Urban population (% of total) 39 40 31 GNI per capita, World Bank Atlas method (\$) 470 320 620 GOP growth, 2005-10 and 2010-15 (avg. annual %) 2.9 -9.8 5.4 Adult literacy rate (% ages 15 and older) 37 37 . Gross primary, secondary, and tertiary school enrollment (%) 42 . 60 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) Internet service C C . . Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VolP (banned, closed, no framework, allowed) C . Fleecommunications revenue (% of GDP) 2.4 2.7 . . Felecommunications revenue (% of GDP) 2.4 2.7 .		Country data		Low- income
Economic and social context Population (millions) 4 5 638 Urban population (% of total) 39 40 31 GNI per capita, World Bank Attas method (\$) 470 320 620 GOP growth, 2005-10 and 2010-15 (avg. annual %) 2.9 -9.8 5.4 Adult literacy rate (% ages 15 and older) 37 37 Gross primary, secondary, and tertiary school enrollment (%) 42 60 Sector structure Sector structure Sector structure 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 A Reg. treatment of VoIP (banned, closed, no framework, allowed) C Sector performance Access Nobile -celleubtone subscriptions (per 100 people) 0.0 Mobile-cellulat telephone subscription/month) 4.5 2.8				
Population (millions) 4 5 638 Urban population (% of total) 39 40 31 GNI per capita, World Bank Atlas method (\$) 470 320 620 GDP growth, 2005-10 and 2010-15 (avg, annual %) 2.9 -9.8 5.4 Adult literacy rate (% ages 15 and older) 37 37 Gross primary, secondary, and tertiary school enrollment (%) 42 60 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition, partial comp., monopoly) Internet service C C Mobile telephone service many (s) C Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Reg. Telecommunications revenue (% of GDP) 2.4 2.7 Fleecommunications revenue (% of GDP) 2.4 2.7 Telecommunications investment (% of revenue) 56.3 Mobile-cellular telephone subscriptions (per 100 people) 0.0	Economic and social context			
Urban population (% of total) 39 40 31 GNI per capita, World Bank Atlas method (\$) 470 320 620 GDP growth, 2005-10 and 2010-15 (avg, annual %) 2.9 -9.8 5.4 Adult literacy rate (% ages 15 and older) 37 37 Gross primary, secondary, and tertiary school enrollment (%) 42 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 C C Mobile telephone service 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 C Sector efficiency and capacity Elecommunications revenue (% of GDP) 2.4 2.7 Telecommunications investment (% of revenue) 56.3 Fixed-telephone subscriptions (per 100 people)		4	5	638
GDP growth, 2005-10 and 2010-15 (avg. annual %) 2.9 -9.8 5.4 Adult literacy rate (% ages 15 and older) 37 37 Gross primary, secondary, and tertiary school enrollment (%) 42 60 Sector structure Sector structure Mixed Public Level of competition (competition, partial comp., monopoly) C International gateway(s) C Mobile telephone service C C Internet service C C C Mobile telephone service C C C Internet service C C C C Sector efficiency and capacity Telecommunications revenue (% of GOP) 2.4 2.7 Telecommunications revenue (% of GOP) 2.4 2.7 Sector efficiency and capacity Telecommunications investment (% of revenue) 56.3 Sector efformance Access Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.0	Urban population (% of total)	39	40	31
Adult literacy rate (% ages 15 and older) 37 37 37 Gross primary, secondary, and tertiary school enrollment (%) 42 60 Sector structure Sector structure Sector structure Nixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) 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 Sector performance Access Fixed-treablenhone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.3 Households with a computer (%) 2.1 ^a 3.5 ^a 4.8 Households with Internet access at home (%) 1.6 ^a 2.9 ^a 7.1 Usage Int'. voice traffic, total (minutes/subscription/month) 4.5 2.8 </td <td>GNI per capita, World Bank Atlas method (\$)</td> <td></td> <td></td> <td></td>	GNI per capita, World Bank Atlas method (\$)			
Gross primary, secondary, and tertiary school enrollment (%) 42 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 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 investment (% of GDP) 2.4 2.7 Telecommunications investment (% of GDP) 2.4 2.7 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Nouseholds with a computer (%) 2.1a 3.5a 4.8 Households with internet access at home (%) 1.6a 2.9a 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.5 2.8 Domestic m				5.4
Sector structure Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) C Internet service C C 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) 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 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.3 Households with Internet access at home (%) 1.6ª 2.9ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.5 2.8 Int'l. voice traffic, total (minutes/subscription/month)				
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 investment (% of revenue) 56.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.3 Households with a computer (%) 2.1ª 3.5ª 4.8 Households with Internet access at home (%) 1.6ª 2.9ª 7.1 Image Int'. voice traffic, total (minutes/subscription/month) 4.5 2.8 Domestic mobile traffic (minutes/subscription/month) 2.3	Gross primary, secondary, and tertiary school enrollment (%)	42		60
Status of main fixed-line telephone operatorMixedPublicLevel of competition (competition, partial comp., monopoly)CInternational gateway(s)CMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)CCSector efficiency and capacityTelecommunications revenue (% of GDP)2.42.7Telecommunications revenue (% of GDP)2.42.7Sector performanceAAAAccessFixed-broadband subscriptions (per 100 people)0.00.00.9Mobile-cellular telephone subscriptions (per 100 people)0.00.3Households with a computer (%)2.1a3.5a4.8Households with Internet access at home (%)1.6a2.9a7.1UsageInternet (minutes/subscription/month)4.52.8Individuals using the Internet (%)2.0a4.6a9.5QualityPopulation covered by at least a 3G mobile network (%)02351International Internet bandwidth (bit/s per Internet user)2071004.245Affordability1.329.5488.633.6Mobile-cbluad nub-basket (\$ a month)1.329.5488.633.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)8.0Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)10.8 <td></td> <td></td> <td></td> <td></td>				
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 investment (% of revenue) 56.3 Telecommunications investment (% of revenue) 56.3 Sector performance Access 60.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 3.5 ^a 4.8 Households with a computer (%) 2.1 ^a 3.5 ^a 4.8 4 Households with Internet access at home (%) 1.6 ^a 2.9 ^a 7.1 Usage Int'l. voice traffic, (minutes/subscription/month) 4.5 2.8 Int'l. voice traffic, total (minutes/subscription/month) 2.3 51 10 Int'l. voice traffic, total (minutes/subscription/month) 2.3 51 100 4.245 Quality				
International gateway(s)CMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)CCSector efficiency and capacityTelecommunications revenue (% of GDP)2.42.7Telecommunications investment (% of revenue)56.3Sector performanceAAAAccessFixed-telephone subscriptions (per 100 people)0.00.00.9Mobile-cellular telephone subscriptions (per 100 people)0.0Fixed-telephone subscriptions (per 100 people)0.0Households with a computer (%)2.1a3.5a4.8Households with internet access at home (%)1.6a2.9a7.1UsageInt'l. voice traffic, total (minutes/subscription/month)4.52.8Individuals using the Internet (%)2.0a4.6a9.59.5QualityMobile-cellular sub-basket (\$ a month)12.911.59.4Population covered by at least a 3G mobile network (%)02351International Internet bandwidth (bit/s per Internet user)2071004.245AffordabilityIncernet bandwidth (bit/s per Internet user)20.08.0Mobile-cluband sub-basket (\$ a month)1.329.5488.633.63.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)8.0 </td <td></td> <td>Mixed</td> <td>Public</td> <td></td>		Mixed	Public	
Mobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)CCSector efficiency and capacityTelecommunications revenue (% of GDP)2.42.7Telecommunications investment (% of revenue)56.3Sector performanceAccessFixed-telephone subscriptions (per 100 people)0.00.0Mobile-cellular telephone subscriptions (per 100 people)0.00.3Households with a computer (%)2.1ª3.5ª4.8Households with a computer (%)1.6ª2.9ª7.1UsageInt'l. voice traffic, total (minutes/subscription/month)4.52.8Domestic mobile traffic (minutes/subscription/month)2.0ª4.6ª9.5QualityPopulation covered by at least a 3G mobile network (%)02351International Internet bandwidth (bit/s per Internet user)2071004.245Affordability Mobile-cellular sub-basket (\$ a month)1.329.5488.63.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)10.8Trade ICT goods exports (% of total goods exports)0.20.0Crade service (% of total goods exports)Online service kindex (0-1, 1=highest presence)0.000.040.11		0		
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 investment (% of revenue) 56.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 22.5 20.4 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.3 Households with a computer (%) 2.1 ^a 3.5 ^a 4.8 Households with a computer (%) 1.6 ^a 2.9 ^a 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.5 2.8 Domestic mobile traffic (minutes/subscription/month) 2.0 ^a 4.6 ^a 9.5 Quality Population covered by at least a 3G mobile network (%) 0 23 51 International Internet bandwidth (bit/s per Internet user) 207 100 4.245 Affordability Mobile-cellular sub-basket (\$ a month) 12.9 11.5 9.4 Fixed-broadband sub-basket (\$ a month) 1.329.5 488.6 33.6 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.0 Mobile-b'band, prepaid handset-based, 1 GB (\$ a month) 10.8 Trade ICT goods exports (% of total goods exports) 0.2 0.0 ICT goods imports (% of total goods exports) Applications Online service index (0-1, 1=highest presence) 0.00 0.04 0.11				
Foreign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)CCSector efficiency and capacity Telecommunications revenue (% of GDP)2.42.7Telecommunications investment (% of revenue)56.3Sector performance Access Fixed-telephone subscriptions (per 100 people)0.00.0Mobile - cellular telephone subscriptions (per 100 people)0.0Nobile - cellular telephone subscriptions (per 100 people)0.0Nouseholds with a computer (%)2.1ª3.5ª4.8Households with a computer (%)1.6ª2.9ª7.1Usage Int'l. voice traffic, total (minutes/subscription/month)4.52.8Domestic mobile traffic (minutes/subscription/month)2.0ª4.6ª9.5Quality Population covered by at least a 3G mobile network (%)02351International Internet bandwidth (bit/s per Internet user)2071004.245Affordability Mobile-cellular sub-basket (\$ a month)1.329.5488.633.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)10.8Trade ICT goods exports (% of total goods exports)0.20.0CI goods imports (% of total goods exports)Onine service index (0-1, 1=highest presence)0.000.040.11		-		
Reg. treatment of VoIP (banned, closed, no framework, allowed)CCSector efficiency and capacity Telecommunications revenue (% of GDP)2.42.7Telecommunications investment (% of revenue)56.3Sector performance Access Fixed-telephone subscriptions (per 100 people)0.00.00.9Mobile-cellular telephone subscriptions (per 100 people)2.520.460.0Fixed-broadband subscriptions (per 100 people)0.00.3Households with a computer (%)2.1a3.5a4.8Households with intermet access at home (%)1.6a2.9a7.1Usage Individuals using the Internet (%)2.0a4.6a9.5Quality Population covered by at least a 3G mobile network (%)02351International Internet bandwidth (bit/s per Internet user)20.71004.245Affordability Mobile-cellular sub-basket (\$ a month)1.329.5488.633.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)8.0Mobile-b'band, prepaid handset-based, 1GB (\$ a month)10.8Trade ICT goods exports (% of total goods exports)Cl goods imports (% of total goods exports)One service index (0-1, 1=highest presence)0.000.040.11		-		
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 0.9 Mobile-cellular telephone subscriptions (per 100 people) 2.5 20.4 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.3 Households with a computer (%) 2.1ª 3.5ª 4.8 Households with Internet access at home (%) 1.6ª 2.9ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.5 2.8 Domestic mobile traffic (minutes/subscription/month) 2.38 40.6 48.9 Individuals using the Internet (%) 0 23 51 International Internet bandwidth (bit/s per Internet user) 207 100 4,245 Affordability 8.0 33.6<	• • • • •			
Telecommunications revenue (% of GDP) 2.4 2.7 Telecommunications investment (% of revenue) 56.3 Sector performance Access Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.3 Households with a computer (%) 2.1ª 3.5ª 4.8 Households with Internet access at home (%) 1.6ª 2.9ª 7.1 Usage Internet access at home (%) 1.6ª 2.9ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.5 2.8 Domestic mobile traffic (minutes/subscription/month) 2.0ª 4.6ª 9.5 Quality Population covered by at least a 3G mobile network (%) 0 23 51 International Internet bandwidth (bit/s per Internet user) 207 100 4,245 Affordability 8.0 33.6 Mobile-cellular sub-basket (\$ a month) 1,329.5		0		
Telecommunications investment (% of revenue) 56.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 22.5 20.4 60.0 Fixed-telephone subscriptions (per 100 people) 0.0 0.3 Households with a computer (%) 2.1ª 3.5ª 4.8 Households with Internet access at home (%) 1.6ª 2.9ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.5 2.8 Domestic mobile traffic (minutes/subscription/month) 2.0ª 4.6ª 9.5 Quality Population covered by at least a 3G mobile network (%) 0 23 51 International Internet bandwidth (bit/s per Internet user) 207 100 4,245 Affordability Mobile-cellular sub-basket (\$ a month) 1,329.5 488.6 33.6 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 10.8 10.8 Trade ICT goods exports (% of total goods exports) 7.7			0.7	
Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.3 Households with a computer (%) 2.1 ^a 3.5 ^a 4.8 Households with a computer (%) 1.6 ^a 2.9 ^a 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.5 2.8 Domestic mobile traffic (minutes/subscription/month) 2.0 ^a 4.6 ^a 9.5 Quality Population covered by at least a 3G mobile network (%) 0 2.3 51 International Internet bandwidth (bit/s per Internet user) 207 100 4,245 Affordability Mobile-cellular sub-basket (\$ a month) 1,329.5 488.6 33.6 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 8.0 Mobile-b'band, prepaid handset-based, 1 GB (\$ a month) 10.8 Trade ICT goods exports (% of total goods exports) 0.2 0.0 ICT goods imports (% of total goods imports) <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
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International Internet bandwidth (bit/s per Internet user) 207 100 4,245 Affordability Mobile-cellular sub-basket (\$ a month) 12.9 11.5 9.4 Fixed-broadband sub-basket (\$ a month) 1,329.5 488.6 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) 0.2 0.0 ICT goods imports (% of total goods imports) 7.7 6.6 3.4 ICT service exports (% of total service exports) Applications 0.00 0.04 0.11		0	00	54
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Fixed-broadband sub-basket (\$ a month) 1,329.5 488.6 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 10.8 ICT goods exports (% of total goods exports) 0.2 0.0 ICT goods imports (% of total goods imports) 7.7 6.6 3.4 ICT service exports (% of total service exports) Applications 0.00 0.04 0.11				
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Trade ICT goods exports (% of total goods exports) 0.2 0.0 ICT goods imports (% of total goods imports) 7.7 6.6 3.4 ICT service exports (% of total service exports) Applications 0.00 0.04 0.11				
ICT goods exports (% of total goods exports) 0.2 0.0 ICT goods imports (% of total goods imports) 7.7 6.6 3.4 ICT service exports (% of total service exports) Applications 0.00 0.04 0.11	Mobile-b band, postpaid computer-based, 1 GB (\$ a month)			10.0
ICT goods imports (% of total goods imports) 7.7 6.6 3.4 ICT service exports (% of total service exports) Applications 0.00 0.04 0.11				
ICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence) 0.00 0.04 0.11				
Applications Online service index (0-1, 1=highest presence) 0.00 0.04 0.11				3.4
Online service index (0-1, 1=highest presence) 0.00 0.04 0.11	ICT Service exports (% of total service exports)			
	Applications			
Secure Internet servers (per million people) 0.2 0.2 1.5				
	Secure Internet servers (per million people)	0.2	0.2	1.5

Chad

Sub-Saharan Africa

Low income

	Country	y data	Low- income
	2010	2015	group 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)		40	
Gross primary, secondary, and tertiary school enrollment (%)	43		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)			
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	
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			
Population covered by at least a 3G mobile network (%)		13	51
International Internet bandwidth (bit/s per Internet user)	96	2,575	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	8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		17.4	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	0.05	0.11
Secure Internet servers (per million people)		0.2	1.5
		0.2	1.0

Channel Islands

Europe	&	Central	Asia
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High income

	Countr	Country data		ountry data ii	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	0.16	0.16	1,187		
Urban population (% of total)	31	31	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 (%)			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)			2.5 18.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)			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					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)			195.9		
Individuals using the Internet (%)			81.0		
Quality			99		
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)			99 134,761		
			101,101		
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			0.67		
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)			1,194.6		
			1,107.0		

Chile

Latin America & Caribbean

High income

	Count	ry data	High- income
-	2010	2015	group 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)	97	97	
Gross primary, secondary, and tertiary school enrollment (%)	90	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)	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)	Α	А	
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			
Fixed-telephone subscriptions (per 100 people)	20.2	19.2	41.2
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 (%)	46.8		
Households with Internet access at home (%)	35.0ª	59.7ª	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	2.3		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	87.3 45.0ª	104.4 64.3ª	195.9 81.0
	40.0	. 04.3	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	134,701
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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.5 26.5	6.1 18.2	10.4 14.4
Mobile-b balla, postpala computer-based, 1 GB (4 a month)	20.5	10.2	14.4
Trade			
ICT goods exports (% of total goods exports)	0.4	0.5	9.5
ICT goods imports (% of total goods imports)	7.9 20.2	7.2 30.4	11.2 32.0
ICT service exports (% of total service exports)	20.2	30.4	32.0
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

China

East Asia & Pacific

Upper middle income

		Country data	
	Countr		
	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)	Р	Р	
International gateway(s) Mobile telephone service	г 	r P	
Internet service		, C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.2	1.8	2.1
Telecommunications investment (% of revenue)	35.6	34.6	18.8
Sector performance			
Access	21.6	16.5	17.3
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	63.2	93.2	105.1
Fixed-broadband subscriptions (per 100 people)	9.3	18.6	
Households with a computer (%)	35.4ª	49.6	48.7
Households with Internet access at home (%)	23.7ª	54.2	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	1.3	0.8	2.3
Domestic mobile traffic (minutes/subscription/month)	419.1 34.3	189.7 50.3	173.1 52.1
Individuals using the Internet (%)	34.3	50.34	52.1
Quality Population covered by at least a 3G mobile network (%)		57	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	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		4.8	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	185.4	8.0	11.1
Trade		6 - -	
ICT goods exports (% of total goods exports)	29.1	25.9	15.7
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	20.4 -6.1	19.7 28.9	14.4 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-	
	Country data		income group	
	2010	2015	2015	
Economic and social context				
Population (millions)	46 75	48 76	/	
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	5,540	7,130		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.4	4.6		
Adult literacy rate (% ages 15 and older)	93	95		
Gross primary, secondary, and tertiary school enrollment (%)	89	88		
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)	C	C C		
Mobile telephone service	P 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				
Telecommunications revenue (% of GDP)	4.2	5.0	2.1	
Telecommunications investment (% of revenue)	17.8		18.8	
Sector performance				
Access	45.5		47.0	
Fixed-telephone subscriptions (per 100 people)	15.5 95.8	14.4 115.7		
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	95.8 5.7	115.7		
Households with a computer (%)	26.1	45.5		
Households with Internet access at home (%)	19.3	41.8		
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		
Individuals using the Internet (%)	36.5	55.9	52.1	
Quality	100	100	<u> </u>	
Population covered by at least a 3G mobile network (%)	100			
International Internet bandwidth (bit/s per Internet user)	10,212	105,050	26,098	
Affordability				
Mobile-cellular sub-basket (\$ a month)	22.2	13.3		
Fixed-broadband sub-basket (\$ a month)	35.2	13.5		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	30.6 17.8	15.0 10.9		
	11.0	10.5	11.1	
Trade ICT goods exports (% of total goods exports)	0.1	0.2	15.7	
ICT goods imports (% of total goods imports)	9.6			
ICT service exports (% of total service exports)	17.1	13.9		
Applications				
Online service index (0-1, 1=highest presence)	0.71	0.79		
Secure Internet servers (per million people)	14.4	57.3	34.7	

Comoros

Sub-Saharan Africa

Low income

2010 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 Sector structure Sector structure Ves Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) Internet service M M Internet service M M M M Evel of competition (competition, partial comp., monopoly) Internet service Sector structure Sector structure Sector structure M M M M M M M Evel of competition (competitor, partial comp., monopoly) Interne		Country data		Low- income
Economic and social contextPopulation (millions)0.700.79638Urban population (% of total)282831GNI per capita, World Bank Atlas method (\$)760790620GDP growth, 2005-10 and 2010-15 (arg. annual %)1.42.95.4Adult literacy rate (% ages 15 and older)78Gross primary, secondary, and tertiary school enrollment (%)6560Sector structureSeparate telecommunications/ICT regulatorYesYesYesInternational gateway(s)MMMMobile celephone serviceMMMInternet serviceMMMForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)BCSector efficiency and capacityTelecommunications revenue (% of GDP)4.5Fixed-telephone subscriptions (per 100 people)3.13.10.9Mobile-cellular telephone subscriptions (per 100 people)2.4*4.7*7.1UsageInt't voice traffic, total (minutes/subscription/month)Int't voice traffic, total (minutes/subscription/month)Domestic mobile traffic (ntal (minutes/subscription/month)Int't voice traffic, total (minutes/subscription/month)Ide communications investively s	-			group 2015
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 Addut literacy rate (% ages 15 and older) 78 Gross primary, secondary, and tertiary school enrollment (%) 65 60 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) M M Internet service M M M Internet service M M Internet service M M M Internet service Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.5 Telecommunications investment (% of revenue) 13.8 Sector performance	Economic and social context			
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 Adutt 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 Public Evel of competition (competition, partial comp., monopoly) Internet service M <td< td=""><td></td><td>0.70</td><td>0.79</td><td>638</td></td<>		0.70	0.79	638
GDP growth, 2005-10 and 2010-15 (avg. annul %) 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 Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) M M Internet service M M M M M Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B C Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.5 Telecommunications investment (% of revenue) 13.8 Sector performance Access Auseholds with a computer (%) 5.2a ^a 8.1 ^a 4.8 Usage		28	28	31
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 Ses Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) M M International gateway(s) M M M Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B C Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.5 Telecommunications investment (% of revenue) 13.8 Sector performance A A A Access Fixed-telephone subscriptions (per 100 people) 24.2 54.8 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.3 0.3 Households with a computer (%) 5.1ª Usage	GNI per capita, World Bank Atlas method (\$)	760	790	620
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) M M Internet service M M M Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B C 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) 0.0 0.3 0.3 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 7.4 7.1 Usage Int't.		1.4		5.4
Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Level of competition (competition, partial comp., monopoly) M International gateway(s) M Mobile telephone service M Internet service M Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) B 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) 0.0 0.3 0.3 Households with Internet access at home (%) 2.4ª 4.7ª 7.1 Usage Individuals using the Internet (%) 5.1ª 7.5ª 9.5 Quality Internatio				
Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) M M International gateway(s) M M 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) B C Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.5 . Telecommunications investment (% of revenue) 13.8 . . Sector performance A A B C Access Fixed-telephone subscriptions (per 100 people) 3.1 3.1 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.3 0.3 Households with a computer (%) 5.2a ^a 8.1 ^a 4.8 Households with Internet access at home (%) 2.4 ^a 7.7 ^a 7.1 Usage Internet (minutes/subscription/month)	Gross primary, secondary, and tertiary school enrollment (%)		65	60
Status of main fixed-line telephone operatorPublicPublicLevel of competition (competition, partial comp., monopoly)MMInternational gateway(s)MMMobile telephone serviceMMInternet serviceMMForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)BCSector efficiency and capacity13.8Telecommunications revenue (% of GDP)4.5Telecommunications investment (% of revenue)13.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)3.13.10.9Mobile-cellular telephone subscriptions (per 100 people)0.00.30.3Households with a computer (%)5.2ª8.1ª4.8Households with internet access at home (%)2.4ª4.7ª7.1UsageInt'. voice traffic, total (minutes/subscription/month)Individuals using the Internet (%)5.1ª7.5ª9.5QualityPopulation covered by at least a 3G mobile network (%)51International Internet bandwidth (bit/s per Internet user)4,76511,6644,245AffordabilityMobile-cellular sub-basket (\$ a month)33.69.4Fixed-broadband sub-basket (\$ a month)33.62.41.733.6	Sector structure			
Level of competition (competition, partial comp., monopoly) M M International gateway(s) M M 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) B C Sector efficiency and capacity 13.8 . . 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) 0.0 0.3 0.3 Households with a computer (%) 5.2 ^a 8.1 ^a 4.8 Households with Internet access at home (%) 2.4 ^a 4.7 ^a 7.1 Usage Individuals using the Internet (%) 5.1 ^a 7.5 ^a 9.5 Quality . .	Separate telecommunications/ICT regulator			
International gateway(s)MMMobile telephone serviceMMInternet serviceMMForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)BCSector efficiency and capacityTelecommunications revenue (% of GDP)4.5Telecommunications investment (% of revenue)13.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)24.254.860.0Fixed-telephone subscriptions (per 100 people)0.00.30.30.3Households with a computer (%)5.2ª8.1ª4.8Households with a computer (%)5.2ª8.1ª4.84.84.7ª7.1IsageInt1. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Individuals using the Internet (%)5.1ª7.5ª9.59.5Quality51International Internet bandwidth (bit/s per Internet user)4,76511,6644,245AffordabilityMobile-cellular sub-basket (\$ a month)13.58.99.4Fixed-broadband sub-basket (\$ a month)80.241.733.6	Status of main fixed-line telephone operator	Public	Public	
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) B C Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.5 . Telecommunications investment (% of revenue) 13.8 . . Sector performance Access Exect-lelephone subscriptions (per 100 people) 3.1 3.1 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.3 0.3 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 4.7ª 7.1 Usage Intil: voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 5.1ª 7.5ª 9.5 . Quality </td <td></td> <td></td> <td></td> <td></td>				
Internet service M M M Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B C 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 Households with a computer (%) 5.2 ^a 8.1 ^a 4.8 Households with Internet access at home (%) 2.4 ^a 4.7 ^a 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 (%) 5.1 ^a 7.5 ^a 9.5 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				
Foreign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)BCSector efficiency and capacity Telecommunications revenue (% of GDP)4.5Telecommunications investment (% of revenue)13.8Sector performance Access Fixed-telephone subscriptions (per 100 people)3.13.10.9Mobile-cellular telephone subscriptions (per 100 people)24.254.860.0Fixed-telephone subscriptions (per 100 people)0.00.30.3Households with a computer (%)5.2ª8.1ª4.8Households with internet access at home (%)2.4ª4.7ª7.1Usage Int'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Individuals using the Internet (%)5.1ª7.5ª9.5Quality Population covered by at least a 3G mobile network (%)51International Internet bandwidth (bit/s per Internet user)4,76511,6644,245Affordability Mobile-cellular sub-basket (\$ a month)13.58.99.4Fixed-broadband sub-basket (\$ a month)33.634.733.6	•			
Reg. treatment of VoIP (banned, closed, no framework, allowed)BCSector efficiency and capacityTelecommunications revenue (% of GDP)4.5Telecommunications investment (% of revenue)13.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)3.13.10.9Mobile-cellular telephone subscriptions (per 100 people)24.254.860.0Fixed-broadband subscriptions (per 100 people)0.00.30.3Fixed-broadband subscriptions (per 100 people)0.00.30.3Households with a computer (%)5.2ª8.1ª4.8Households with Internet access at home (%)2.4ª4.7ª7.1UsageInt'I. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)2.1.48.9Individuals using the Internet (%)5.1ª7.5ª9.5QualityPopulation covered by at least a 3G mobile network (%)51International Internet bandwidth (bit/s per Internet user)4,76511,6644,245AffordabilityMobile-cellular sub-basket (\$ a month)13.58.99.4Fixed-broadband sub-basket (\$ a month)80.241.733.6				
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 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 4.7ª 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 9.5 Quality Population covered by at least a 3G mobile network (%)	• • • • •			
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 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 4.7ª 7.1 Usage Individuals using the Internet (%) 5.1ª 7.5ª 9.5 Quality 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	reg. treatment of voir (banned, closed, no framework, anowed)	D	U	
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-treadband subscriptions (per 100 people) 0.0 0.3 0.3 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 4.7ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) 5.1ª 7.5ª 9.5 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	Sector efficiency and capacity			
Sector performanceAccessFixed-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 Households with a computer (%) 5.2^a 8.1^a 4.8 Households with Internet access at home (%) 2.4^a 4.7^a 7.1 UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month) 5.1^a 7.5^a 9.5 QualityPopulation covered by at least a 3G mobile network (%) 51 International Internet bandwidth (bit/s per Internet user) $4,765$ $11,664$ $4,245$ AffordabilityMobile-cellular sub-basket (\$ a month) 13.5 8.9 9.4 Fixed-broadband sub-basket (\$ a month) 80.2 41.7 33.6				
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 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 4.7ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 5.1ª 7.5ª 9.5 Quality 51 International Internet bandwidth (bit/s per Internet user) 4,765 11,664 4,245 Affordability 51 Mobile-cellular sub-basket (\$ a month) 13.5 8.9 9.4	Telecommunications investment (% of revenue)	13.8		
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 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 4.7ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 5.1ª 7.5ª 9.5 Quality 51 International Internet bandwidth (bit/s per Internet user) 4,765 11,664 4,245 Affordability 51 Mobile-cellular sub-basket (\$ a month) 13.5 8.9 9.4	Sector performance			
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 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 4.7ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 5.1ª 7.5ª 9.5 Quality 5.1ª 7.5ª 9.5 Quality .51 11,664 4,245 Affordability .51 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	-			
Fixed-broadband subscriptions (per 100 people) 0.0 0.3 0.3 Households with a computer (%) 5.2ª 8.1ª 4.8 Households with Internet access at home (%) 2.4ª 4.7ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) 5.1ª 7.5ª 9.5 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	Fixed-telephone subscriptions (per 100 people)	3.1	3.1	0.9
Households with a computer (%) 5.2ª 8.1ª 4.8 Households with laternet access at home (%) 2.4ª 4.7ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 5.1ª 7.5ª 9.5 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-cellular telephone subscriptions (per 100 people)	24.2	54.8	60.0
Households with Internet access at home (%) 2.4° 4.7° 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) 5.1° 7.5° 9.5 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	Fixed-broadband subscriptions (per 100 people)			
Usage				
Int'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)42.148.9Individuals using the Internet (%)5.1°7.5°9.5QualityPopulation covered by at least a 3G mobile network (%)51International Internet bandwidth (bit/s per Internet user)4,76511,6644,245AffordabilityMobile-cellular sub-basket (\$ a month)13.58.99.4Fixed-broadband sub-basket (\$ a month)80.241.733.6	Households with Internet access at home (%)	2.4ª	4.7ª	7.1
Domestic mobile traffic (minutes/subscription/month)42.148.9Individuals using the Internet (%)5.1°7.5°9.5Quality51Population covered by at least a 3G mobile network (%)51International Internet bandwidth (bit/s per Internet user)4,76511,6644,245Affordability13.58.99.4Fixed-broadband sub-basket (\$ a month)80.241.733.6	Usage			
Individuals using the Internet (%)5.1°7.5°9.5QualityPopulation covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)51Affordability Mobile-cellular sub-basket (\$ a month)13.58.99.4Fixed-broadband sub-basket (\$ a month)33.6	Int'l. voice traffic, total (minutes/subscription/month)			
Quality	Domestic mobile traffic (minutes/subscription/month)	42.1		48.9
Population covered by at least a 3G mobile network (%)51International Internet bandwidth (bit/s per Internet user)4,76511,6644,245AffordabilityMobile-cellular sub-basket (\$ a month)13.58.99.4Fixed-broadband sub-basket (\$ a month)80.241.733.6	Individuals using the Internet (%)	5.1ª	7.5ª	9.5
Population covered by at least a 3G mobile network (%)51International Internet bandwidth (bit/s per Internet user)4,76511,6644,245AffordabilityMobile-cellular sub-basket (\$ a month)13.58.99.4Fixed-broadband sub-basket (\$ a month)80.241.733.6	Quality			
AffordabilityMobile-cellular sub-basket (\$ a month)13.58.99.4Fixed-broadband sub-basket (\$ a month)80.241.733.6				51
Mobile-cellular sub-basket (\$ a month) 13.5 8.9 9.4 Fixed-broadband sub-basket (\$ a month) 80.2 41.7 33.6	International Internet bandwidth (bit/s per Internet user)	4,765	11,664	4,245
Mobile-cellular sub-basket (\$ a month) 13.5 8.9 9.4 Fixed-broadband sub-basket (\$ a month) 80.2 41.7 33.6	Affordahility			
Fixed-broadband sub-basket (\$ a month) 80.2 41.7 33.6	•	135	89	94
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		0.1	0.0	
ICT goods imports (% of total goods imports) 1.8 5.9 3.4				34
ICT service exports (% of total service exports) 22.2				
······································				
Applications				
Online service index (0-1, 1=highest presence)0.030.020.11				
Secure Internet servers (per million people) 1.4 1.3 1.5	Secure Internet servers (per million people)	1.4	1.3	1.5

Congo, Dem. Rep.

Sub-Saharan Africa

Low income

	Country 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	7.8	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	75 57	77 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)			
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)	С	С	
Sector efficiency and capacity	2.9	3.0	
Telecommunications revenue (% of GDP)	2.9		
Telecommunications investment (% of revenue)	20.3		
Sector performance			
Access	0.1	0.0	0.9
Fixed-telephone subscriptions (per 100 people) 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 (%)	0.0 0.7ª	2.3ª	
Households with Internet access at home (%)	0.6ª	2.4ª	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	3.2	2.1	
Domestic mobile traffic (minutes/subscription/month)	55.1	33.0	48.9
Individuals using the Internet (%)	0.7	3.8ª	9.5
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	11.0	0.0	0.4
Mobile-cellular sub-basket (\$ a month)	11.9	9.8 397.7	9.4 33.6
Fixed-broadband sub-basket (\$ a month)	400.2		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.0 50.0	15.0 20.0	8.0 10.8
Trada			
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			
Online service index (0-1, 1=highest presence)	0.09	0.05	0.11
Secure Internet servers (per million people)	0.1	0.3	1.5

Congo, Rep.

Sub-Saharan Africa

Lower middle income

			Lower middle- income
	Country 2010	/ 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) Gross primary, secondary, and tertiary school enrollment (%)	79 67	79 	 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	С		
Internet service	С		
Foreign ownership (not allowed, restricted, allowed)	Α	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.5		
Telecommunications investment (% of revenue)	17.7		
Sector performance			
Access	0.2	0.4	2.5
Fixed-telephone subscriptions (per 100 people)	0.3 90.4	0.4 111.7	
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	90.4 0.0	0.0	
Households with a computer (%)	3.5ª	5.2	
Households with Internet access at home (%)	0.7ª	2.3	
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	7.6	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	
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	
ICT goods imports (% of total goods imports)	0.9	2.1	
ICT service exports (% of total service exports)			48.0
Applications	0.00	0.15	
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

Costa Rica

Latin America & Caribbean

Upper middle income

			Upper middle- income
		Country data	
	2010	2015	2015
Economic and social context			
Population (millions)	5	_5	,
Urban population (% of total)	72	77	64
GNI per capita, World Bank Atlas method (\$)	7,100 4.2	10,210 3.9	
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	4.2	3.9 98	
Gross primary, secondary, and tertiary school enrollment (%)	90	94	
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)) A	No	
Sector efficiency and capacity		2.0	0.1
Telecommunications revenue (% of GDP)	1.1 68.9	3.2 28.9	
Telecommunications investment (% of revenue)	08.9	28.9	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	22.7	17.2	17.3
Mobile-cellular telephone subscriptions (per 100 people)	67.0	150.7	
Fixed-broadband subscriptions (per 100 people)	8.5	11.2	
Households with a computer (%)	41.3	53.2	
Households with Internet access at home (%)	24.1	60.2	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	8.4	8.1	2.3
Domestic mobile traffic (minutes/subscription/month)	100.9	104.0	
Individuals using the Internet (%)	36.5	59.8	52.1
Quality			
Population covered by at least a 3G mobile network (%)	45	99	
International Internet bandwidth (bit/s per Internet user)	12,657	61,746	26,098
Affordability	2.4	2.0	0.5
Mobile-cellular sub-basket (\$ a month)	3.4 14.7	3.9 18.3	
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	14.7	8.2	
Mobile-b'band, postpaid computer-based, 500 MB (\$ a month)	16.4	11.2	
Trade			
ICT goods exports (% of total goods exports)	19.9	21.9	15.7
ICT goods imports (% of total goods imports)	17.7	18.5	
ICT service exports (% of total service exports)	36.5	44.9	
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 dat		income
· · · · · · · · · · · · · · · · · · ·	2010	2015	group 2015
Economic and social context			
Population (millions)	20	23	-,
Urban population (% of total)	51	54	39
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	1,210 2.3	1,410 7.2	2,035 5.4
Adult literacy rate (% ages 15 and older)	41	43	
Gross primary, secondary, and tertiary school enrollment (%)		52	
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	М	М	
International gateway(s) Mobile telephone service	P	P	
Internet service	c	Ċ	
Foreign ownership (not allowed, restricted, allowed)	Ā	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	No	
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	
Fixed-broadband subscriptions (per 100 people)	0.1	0.5	
Households with a computer (%)	1.8ª	8.8	19.3
Households with Internet access at home (%)	1.1ª	17.2	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	5.9 43.9	4.7 67.9	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	43.9 2.7ª	21.0	
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	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	29.4 29.4	10.0 25.4	5.8 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

Croatia

Europe & Central Asia

High income

	Country	Country data ⁱ	
	2010	2015	group 2015
Economic and social context Population (millions) Urban population (% of total)	4 58	4 59	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)	13,750 0.3 99	12,690 -0.7 99	41,366 1.5
Gross primary, secondary, and tertiary school enrollment (%)	84	90	95
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	Yes Mixed	Yes Mixed	
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service	C C	 C	
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	C A A	A A	
Sector efficiency and capacity 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) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	43.0 113.6ª 19.3 60.0 56.5	34.7 103.8 23.2 76.8 76.7	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 (%)	11.6 99.0 56.6	8.5 158.5 69.8	 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	79 22,420	99 72,381	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 18.2 8.5 	9.7 14.8 5.8 11.5	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)	2.1 5.5 12.8	2.0 4.9 13.0	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.42 168.9	0.46 264.4	0.67 1,194.6



Latin America & Caribbean

Upper middle income

			Upper middle- income
	Country 2010	/ data 2015	group 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		8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	5.1	2.9	4.5
Adult literacy rate (% ages 15 and older)	100	100	
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 P	
Internet service	P R	R	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	-	A	
	D	Л	
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	173.1
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	26,098
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			
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)	0.24	0.23	0.37
Secure Internet servers (per million people)	0.1	0.5	34.7

Curaçao

Latin America & Caribbean

High income

	Countr	Country data ⁱ	
-	2010	2015	group 2015
Economic and social context			
Population (millions)	0.15	0.16	1,187
Urban population (% of total)	90	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 (%)		 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 Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			2.5 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 (%)	62.7		83.2
Households with Internet access at home (%)	53.2		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		82ª	99
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)			134,761
international internet bandwidth (bit/s per internet user)			134,701
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)	21.2	22.2	32.0
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	39.5	537.8	1,194.6



Europe & Central Asia

High income

	Counti	Country data		ا in Country data	
	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 %)	1 68 30,910 2.4	1 67 25,930 -2.4	1,187 81 41,366 1.5		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	99 79	99 83	 95		
Sector structure					
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Public	Yes Public			
International gateway(s) Mobile telephone service Internet service	C P C	C P C			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	A A			
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.7 23.7	3.1 10.8	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 (%)	37.4 93.7 17.6 60.5 53.7	27.8 95.4 22.4 71.5 71.2	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 (%)	52.4 237.0 53.0	31.5 214.1 71.7	 195.9 81.0		
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	85 51,638	90 89,791	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)	7.7 34.8 38.6 23.5	6.9 17.8 22.2 16.6	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)	9.2 4.7 8.8	5.0 4.3 14.6	9.5 11.2 32.0		
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.37 838.1	0.47 677.1	0.67 1,194.6		

Czech Republic

Europe & Central Asia

High income

	Count	Country data		Hig inco Country data	
	2010	2015	2015		
Economic and social context Population (millions) Urban population (% of total)	10 73	11 73	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)	19,210 2.1 	1.0	41,366 1.5 		
Gross primary, secondary, and tertiary school enrollment (%)	87	94	95		
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Private				
International gateway(s) Mobile telephone service Internet service	 C	 C			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	R A	A A			
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.1 12.4	1.8 28.9	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 (%)	22.4 122.6 21.4 64.1 60.5	129.2 27.9 78.9	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 (%)	9.7 94.5 68.8	121.0	 195.9 81.0		
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	90 68,842	99 119,841	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)	28.1 31.2 24.4 25.5		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)	15.0 17.8 27.8		9.5 11.2 32.0		
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.45 319.7	0.37 866.8	0.67 1,194.6		

Denmark

Europe & Central Asia

High income

201020152015201020152015Economic and social contextPopulation (millions)661.187Urban population (% of total)878881GN per capita, World Bank Atlas method (\$)60,82058,59041.366GN per capita, World Bank Atlas method (\$)60,82058,59041.366GP per capita, World Bank Atlas method (\$)60,82058,59041.366Adult literacy rate (% ages 15 and older)Gross primary, secondary, and tertiary school enroliment (%)10010010595Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorPrivatePrivateLevel of competition (competition, partial comp., monopoly)Internet serviceCCCord mounications/ICT regulatorYesYesTelecommunications jateway(s)CCCCCord colspan="2">Core of conpetition (competition, closed, no framework, allowed)ASector efficiency and capacityTelecommunications investment (% of revenue)18.218.0Itele communications investment (% of revenue)18.218.0Itele colspan="2">Sector efficiency and capacity <td< th=""><th></th><th>Count</th><th colspan="2">Country data</th><th colspan="2">Hi Country data gr</th></td<>		Count	Country data		Hi Country data gr	
Population (millions) 6 6 1.187 Urban population (% of total) 87 88 81 GNI per capital, World Bank Alas method (\$) 60.820 58,590 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 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 P P Internet service P P Internet service 0 A A A Sector efficiency and capacity 2.5 Telecommunications revenue (% of GDP) 2.3 1.8 2.5 128.3 124.5 31.0 Households with a computer (%) Mote-cellular tel		2010	2015			
Urban population (% of total) 87 88 81 GNI per capita, World Bank Atlas method (\$) 60,820 58,590 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 Sector structure Pervise Yes Yes Status of main fixed-line telephone operator Private Private Private Level of competition, competition, partial comp., monopoly) International gateway(s) C C Internet service C C Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.3 1.8 2.5 Telecommunications investment (% of revenue) 18.2 18.0 18.8 Sector performance A A Sector performance Access Fixed-telephone subscriptions (per 100 people) 17.1 29.9 41.2	Economic and social context					
GNI per capita, World Bark Atlas method (\$) 60.820 58.590 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 Yes Yes Separate telecommunications/ICT regulator Yes Yes Yes Yes Sector structure P P International gateway(s) C C C Mobile telephone service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) A A A Sector efficiency and capacity Telecommunications investment (% of GDP) 2.3 1.8 2.5 Telecommunications investment (% of GDP) 2.3 1.8 41.2 18.0 Sector performance Access Fixed-tradend subscriptions (per 100 people) 115.7 122.3 12.4 Fixed-broadband sub	Population (millions)	6	6	1,187		
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 Yes Yes Status of main fixed-line telephone operator Private Private Private Level of competition (competition, partial comp., monopoly) C C C International gateway(s) Mobile telephone service P P Internet service C C C C Foreign ownership (not allowed, restricted, allowed) A A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.3 1.8 2.5 Telecommunications investment (% of revenue) 18.2 18.0 18.8 Sector performance Access 42.5 31.0 Households with a computer (%) 86.1 91.7 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 18.8 18.1 International Inte						
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enroliment (%) 100 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Private Private Level of competition, partial comp., monopoly) International gateway(s) C C C Mobile telephone service P P P Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.3 1.8 2.5 Telecommunications investment (% of revenue) 18.2 18.0 18.8 Sector performance Access Access 14.2 31.0 Households with a computer (%) 88.0 92.3 83.2 142.5 31.0 Households with a computer (%) 86.1 91.7 85.0 92.3 83.2 Households with internet access at home (%) 86.1 91.7 85.0 92.3 83.2		'	,	,		
Gross primary, secondary, and tertiary school enrollment (%)10010595Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorPrivatePrivateLevel of competition (competition, partial comp., monopoly)CCInternational gateway(s)CCCMobile telephone servicePPInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityIts218.018.8Sector performanceAExcessFixed-telephone subscriptions (per 100 people)47.129.941.2Mobile-cellular telephone subscriptions (per 100 people)38.142.531.038.2Households with a computer (%)88.092.383.2195.9Individuals using the Internet access at home (%)86.191.785.092.3Int'l. voice traffic, total (minutes/subscription/month)18.818.1Domestic mobile traffic (minutes/subscription/month)139.3142.5195.9Individuals using the Internet (%)88.796.381.099142.137328.018134.761Mobile-cellular sub-basket (\$ a month)7.935.214.214.214.214.2134.761Mobile-cellular sub-basket (\$ a month)7.935.214.214.214.414.414.41		-0.4	0.5	1.5		
Separate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorPrivatePrivateLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet servicePPPInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)2.31.82.5Telecommunications investment (% of revenue)18.218.018.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)47.129.941.2Mobile-cellular telephone subscriptions (per 100 people)38.142.531.0Households with a computer (%)88.092.383.2Households with a computer (%)88.092.383.2Int'l. voice traffic, total (minutes/subscription/month)18.818.1.Domestic mobile traffic (minutes/subscription/month)18.818.1.International Internet bandwidth (bit/s per Internet user)142.137328.018134.761Mobile-cellular sub-basket (\$ a month)7.935.214.2Fixed-broadband sub-basket (\$ a month)7.935.214.2Fixed-broadband sub-basket (\$ a month)7.97.311.2Fixed-broadband sub-basket (\$ a month)7.97.311.2CT goods e		 100	 105	 95		
Status of main fixed-line telephone operatorPrivatePrivateLevel of competition (competition, partial comp., monopoly)CCInternational gateway(s)CCMobile telephone servicePInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity18.218.018.8Sector performanceAAAccessFixed-broadband subscriptions (per 100 people)47.129.941.2Mobile-cellular telephone subscriptions (per 100 people)115.7128.3124.5Fixed-broadband subscriptions (per 100 people)86.191.785.0UsageIntimutes/subscription/month)18.818.1Domestic mobile traffic, total (minutes/subscription/month)18.818.1Domestic mobile traffic (minutes/subscription/month)18.8134.761Mobile-cellular sub-basket (\$ a month)7.935.214.2International Internet bandwidth (bit/s per Internet user)142,137328,018134,761AfordabilityMobile-cellular sub-basket (\$ a month)7.935.214.2Fixed-broadband sub-basket (\$ a month)7.935.214.2Internet bandwidth (bit/s per Internet user)142,137328,018134,761AfordabilityGGG0.60.6Code exports (% of total goods exports)3.73.6 <td>Sector structure</td> <td></td> <td></td> <td></td>	Sector structure					
Level of competition (competition, partial comp., monopoly) C C International gateway(s) C C 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) 2.3 1.8 2.5 Telecommunications revenue (% of revenue) 18.2 18.0 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 15.7 128.3 124.5 Fixed-telephone subscriptions (per 100 people) 38.1 42.5 31.0 Households with a computer (%) 88.0 92.3 83.2 Households with Internet access at home (%) 86.1 91.7 85.0 Usage Int'. voice traffic, total (minutes/subscription/month) 18.8 18.1 Individuals using the Internet (%) 80 100 99 International Internet bandwidth (bit/s per Internet user) 142,137 328,018 134,761	Separate telecommunications/ICT regulator	Yes	Yes			
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Domestic mobile traffic (minutes/subscription/month)139.3142.5195.9Individuals using the Internet (%)88.796.381.0Quality7010099International Internet bandwidth (bit/s per Internet user)142,137328,018134,761Affordability7.935.214.2Mobile-cellular sub-basket (\$ a month)7.935.214.2Fixed-broadband sub-basket (\$ a month)43.938.525.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)85.544.610.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)17.17.314.4Trade7.97.311.2ICT goods exports (% of total goods exports)7.97.311.2ICT service exports (% of total service exports)16.932.0Applications0.670.660.67	Usage					
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International Internet bandwidth (bit/s per Internet user) 142,137 328,018 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 7.9 35.2 14.2 Fixed-broadband sub-basket (\$ a month) 43.9 38.5 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 exports) 7.9 7.3 11.2 ICT service exports (% of total service exports) 16.9 32.0 Applications 0.67 0.66 0.67		70	100	00		
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ICT goods exports (% of total goods exports) 3.7 3.6 9.5 ICT goods imports (% of total goods imports) 7.9 7.3 11.2 ICT service exports (% of total service exports) 16.9 32.0 Applications 0.67 0.66 0.67	Mobile-b band, postpaid computer-based, 1 GB (\$ a month)	17.1	1.3	14.4		
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ICT service exports (% of total service exports) 16.9 32.0 Applications 0.67 0.66 0.67						
Online service index (0-1, 1=highest presence) 0.67 0.66 0.67						
Online service index (0-1, 1=highest presence) 0.67 0.66 0.67	Applications					
		0.67	0.66	0.67		
		1,872.1	1,975.9	1,194.6		

Djibouti

Middle East & North Africa

Lower middle income

				Lowe middle	
	Country 2010	y data 2015	income group 2015		
Formamic and assist contant	2010	2020	2020		
Economic and social context Population (millions)	0.83	0.89	2,927		
Urban population (% of total)	0.85	0.03	2,527		
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	M	M			
Foreign ownership (not allowed, restricted, allowed)	No) B	No C			
Reg. treatment of VoIP (banned, closed, no framework, allowed)) D	U			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	5.7				
Telecommunications investment (% of revenue)	14.3				
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 (%)	2.2 19.9 1.0 13.0ª 3.5ª	2.6 34.7 2.3 19.1 ³ 8.1 ³			
Usage	1010				
Int'l. voice traffic, total (minutes/subscription/month)	124.9				
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	32.0 6.5ª	 11.9	152.0 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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			5.8 10.0		
Trade	0.1		5.7		
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	0.1 5.4		5.7 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		

Dominica

Latin America & Caribbean

Upper middle income

			Upper middle- income
		Country data	
	2010	2015	2015
Economic and social context			
Population (millions)	0.07 68	0.07 70	2,594
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	6,700	6,760	64 8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.5	1.1	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)	С	С	
Mobile telephone service	С	C	
Internet service Foreign ownership (not allowed, restricted, allowed)	C A	C A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		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	
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	148.3 11.7	106.3 20.9	105.1 15.4
Households with a computer (%)	30.0ª		
Households with Internet access at home (%)	28.0ª		
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	14.6		2.3
Domestic mobile traffic (minutes/subscription/month)	112.1		173.1
Individuals using the Internet (%)	47.5	67.6	52.1
Quality			
Population covered by at least a 3G mobile network (%)	0	60	
International Internet bandwidth (bit/s per Internet user)	63,816	193,358	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.7	21.1	8.5
Fixed-broadband sub-basket (\$ a month)	47.8	32.2 34.1	15.5 7.7
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		34.1 22.2	11.1
mobile-b balld, postpald computer-based, 1 db (\$ a month)		22.2	11.1
Trade ICT goods exports (% of total goods exports)	2.5		15.7
ICT goods imports (% of total goods imports)	4.8		14.4
ICT service exports (% of total service exports)	22.4	21.0	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.05	0.19	0.37
	309.1	454.0	34.7

Dominican Republic

Latin America & Caribbean

Upper middle income

l l l l l l l l l l l l l l l l l l l	. .		middle- income
-	Country 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	10	11	2,594
Urban population (% of total)	74	79	64
	5,280	6,130	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.6 90	4.9 92	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	90 78	92 78	
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
	Private	Private	
Level of competition (competition, partial comp., monopoly)	С	С	
International gateway(s) Mobile telephone service	C	P	
Internet service	c	C	
Foreign ownership (not allowed, restricted, allowed)	Â	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.1	2.9	
Telecommunications investment (% of revenue)	17.3	14.3	18.8
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
Fixed-broadband subscriptions (per 100 people)	3.9	6.4	15.4
Households with a computer (%)	16.4ª	30.1	48.7
Households with Internet access at home (%)	10.2ª	23.6	52.2
Usage		10.0	
Int'l. voice traffic, total (minutes/subscription/month)	30.2 23.3	12.9	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	23.3 31.4ª	30.8 51.9	
individuals using the internet (76)	51.4-	51.5	52.1
Quality Population covered by at least a 3G mobile network (%)		99	69
	4,451	36,155	
Affordability			
Mobile-cellular sub-basket (\$ a month)	16.9	14.0	8.5
Fixed-broadband sub-basket (\$ a month)	19.0	20.1	15.5
	105.8	25.0	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	19.4	17.0	11.1
	2.0	1.0	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	2.0 4.8	1.0 3.7	
ICT service exports (% of total service exports)	4.8 6.9	5.1	
Applications			
Online service index (0-1, 1=highest presence)	0.37	0.39	0.37
Secure Internet servers (per million people)	15.3	30.7	34.7

Ecuador

Latin America & Caribbean

Upper middle income

		Upper middle	
	Country data		group
Economic and social context			
Population (millions)	15	16	2,594
Urban population (% of total)	63	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)	С	С	
International gateway(s)	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)	3.4	2.9	2.1
Telecommunications investment (% of revenue)	9.4	10.3	18.8
Sector performance			
Access	10.0	45.5	17.0
Fixed-telephone subscriptions (per 100 people)	13.9 98.5	15.5 79.4	
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	98.5	79.4 9.2	
Households with a computer (%)	27.0	40.8	
Households with Internet access at home (%)	11.5	32.8	
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			
Population covered by at least a 3G mobile network (%)	66	92	
International Internet bandwidth (bit/s per Internet user)	7,950	56,561	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	17.1	17.2	
Fixed-broadband sub-basket (\$ a month)	22.6	20.2	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	21.3 24.0	20.0 22.4	
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	
ICT service exports (% of total service exports)			05.7
Applications			
Online service index (0-1, 1=highest presence)	0.32	0.48	0.37
Secure Internet servers (per million people)	14.1	41.9	34.7

Egypt, Arab Rep.

Middle East & North Africa

Lower middle income

Country data 2010 2015 Economic and social context 2010 Population (millions) 82 92 Urban population (% of total) 43 43 GNI per capita, World Bank Atlas method (\$) 2,390 3,340 GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.2 2.4 Adult literacy rate (% ages 15 and older) 72 76 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) P P Mobile telephone service C C C Internet service C C Foreign ownership (not allowed, restricted, allowed) R A Reg. treatment of VoIP (banned, closed, no framework, allowed) A B	ncome group 2015 2,927 39 2,035 5.4 68
Economic and social context Population (millions) 82 92 Urban population (% of total) 43 43 GNI per capita, World Bank Atlas method (\$) 2,390 3,340 GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.2 2.4 Adult literacy rate (% ages 15 and older) 72 76 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) P P Mobile telephone service C C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) R A R Reg. treatment of VoIP (banned, closed, no framework, allowed) A B	2,927 39 2,035 5.4
Population (millions) 82 92 Urban population (% of total) 43 43 GNI per capita, World Bank Atlas method (\$) 2,390 3,340 GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.2 2.4 Adult literacy rate (% ages 15 and older) 72 76 Gross primary, secondary, and tertiary school enrollment (%) 72 78 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) P P Mobile telephone service C C C Foreign ownership (not allowed, restricted, allowed) R A Reg. treatment of VoIP (banned, closed, no framework, allowed) A B	39 2,035 5.4
Urban population (% of total) 43 43 GNI per capita, World Bank Atlas method (\$) 2,390 3,340 GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.2 2.4 Adult literacy rate (% ages 15 and older) 72 76 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) P P International gateway(s) P P 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 B	39 2,035 5.4
GNI per capita, World Bank Atlas method (\$) 2,390 3,340 GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.2 2.4 Adult literacy rate (% ages 15 and older) 72 76 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) P P International gateway(s) P P 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 B	2,035 5.4
GDP growth, 2005-10 and 2010-15 (avg. annual %) 6.2 2.4 Adult literacy rate (% ages 15 and older) 72 76 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) P P International gateway(s) P P 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 B	5.4
Adult literacy rate (% ages 15 and older) 72 76 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) P P International gateway(s) P P 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 B	
Gross primary, secondary, and tertiary school enrollment (%) 72 78 Sector structure Separate telecommunications/ICT regulator Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) P P International gateway(s) P P 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 B	68
Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) P International gateway(s) P Mobile telephone service C Internet service C Foreign ownership (not allowed, restricted, allowed) R Reg. treatment of VoIP (banned, closed, no framework, allowed) A	
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 International gateway(s) P C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) R A Reg. treatment of VoIP (banned, closed, no framework, allowed) A B	
Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) P P International gateway(s) C C C Internet service C C Foreign ownership (not allowed, restricted, allowed) R A Reg. treatment of VoIP (banned, closed, no framework, allowed) A B	
Level of competition (competition, partial comp., monopoly) P P International gateway(s) P P 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 B	
International gateway(s) P P 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	
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 B	
Internet service C C C Foreign ownership (not allowed, restricted, allowed) R A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A B	
Foreign ownership (not allowed, restricted, allowed) R A Reg. treatment of VoIP (banned, closed, no framework, allowed) A B	
Reg. treatment of VoIP (banned, closed, no framework, allowed) A B	
Sector efficiency and capacity	
Telecommunications revenue (% of GDP) 3.2 2.2	
Telecommunications investment (% of revenue) 50.7 33.8	
Sector performance Access	
Fixed-telephone subscriptions (per 100 people) 12.3 7.4	3.5
Mobile-cellular telephone subscriptions (per 100 people) 90.5 111.0	90.5
Fixed-broadband subscriptions (per 100 people) 1.9 4.5	1.9
Households with a computer (%) 31.3 50.8 ^a	19.3
Households with Internet access at home (%) 25.3 41.8 ^a	24.3
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	28.6
Quality	
Population covered by at least a 3G mobile network (%) 87 98	 10 272
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	E 7
ICT goods exports (% of total goods exports) 0.1 2.8	5.7
ICT goods imports (% of total goods imports)3.74.2ICT service exports (% of total service exports)8.810.5	7.6 48.0
ICT service exports (% of total service exports) 8.8 10.5	40.0
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

El Salvador

Latin America & Caribbean

Lower middle income

			Lower middle-
	Countre 2010	y data 2015	income group 2015
Economic and social context			
Population (millions)	6	6	2,927
Urban population (% of total)	64	67	39
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) Gross primary, secondary, and tertiary school enrollment (%)	84 78	88 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)			
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)	No	No	
Sector efficiency and capacity	20	6.4	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.8 17.7	6.4 16.4	
	11.1	10.4	
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	
Fixed-broadband subscriptions (per 100 people)	2.8	5.5	1.9
Households with a computer (%)	13.3	28.14	
Households with Internet access at home (%)	8.0	15.0ª	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 26.9ª	152.0 28.6
Individuals using the Internet (%)	15.9	20.9	20.0
Quality		73	
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 2,889	61,959	 10,372
	_,	,	
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.6 24.9	13.8 21.2	6.9 14.3
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	24.9 10.0	14.0	14.3 5.8
Mobile-b'band, postpaid computer-based, 300 MB (\$ a month)	15.0	14.0	10.0
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	
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

Sub-Saharan Africa Upper middle inco			ncome
	Country	y data	Upper middle- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	0.73 39	0.85 40	2,594 64
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	39 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) International gateway(s)	Р		
Mobile telephone service	Ċ		
Internet service	С	С	
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)			2.1 18.8
Telecommunications investment (% of revenue)			10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	1.9	1.4	17.3
Mobile-cellular telephone subscriptions (per 100 people)	57.4	66.7	105.1
Fixed-broadband subscriptions (per 100 people)	0.2	0.5	15.4
Households with a computer (%)	13.0ª	19.3ª	
Households with Internet access at home (%)	7.0ª	8.9ª	52.2
Usage			2.3
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)			2.3 173.1
Individuals using the Internet (%)	6.0	 21.3ª	
Quality Population covered by at least a 3G mobile network (%)			69
International Internet bandwidth (bit/s per Internet user)	4,094	1,320	26,098
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

Eritrea

Sub-Saharan Africa

Low income

	Country	Country data		Country data ^{ji}	
	2010	2015	group 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		5.4		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 30	74 	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	М			
Mobile telephone service	P P	P P			
Internet service					
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)	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			
Households with Internet access at home (%)	0.7ª	1.7ª			
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	77.1	67.4			
Domestic mobile traffic (minutes/subscription/month)	115.5 0.6ª	11.3 1.1ª	48.9 9.5		
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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			8.0 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	0.02	0.00	0.11		
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.02	0.00	1.5		
			1.5		

Estonia

Europe & Central Asia

High income

	Country data		High- income group
	2010	2015	2015
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		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	-1.6 100	3.5 100	1.5
Adult literacy rate (% ages 15 and older) 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 (competition, partial comp., monopoly) International gateway(s)		С	
Mobile telephone service	C	C	
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	2.0	2.0	0.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.2 14.6	2.8 16.2	2.5 18.8
	14.0	10.2	10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	37.1	30.3	41.2
Mobile-cellular telephone subscriptions (per 100 people)	127.3	148.7	124.5
Fixed-broadband subscriptions (per 100 people)	26.8	28.7	31.0
Households with a computer (%)	69.2 67.8	87.9 87.7	83.2 85.0
Households with Internet access at home (%)	07.8	81.1	85.0
Usage Int'l. voice traffic, total (minutes/subscription/month)	9.6	8.3	
Domestic mobile traffic (minutes/subscription/month)	122.7	125.9	195.9
Individuals using the Internet (%)	74.1	88.4	81.0
Quality	95	100	99
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	23,903		99 134,761
	20,000	00,021	101,101
Affordability			
Mobile-cellular sub-basket (\$ a month)	22.3	3.3	14.2
Fixed-broadband sub-basket (\$ a month)	21.0 8.2	17.7 2.2	25.2 10.4
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	0.2 7.7	8.3	10.4
		0.0	1
Trade ICT goods exports (% of total goods exports)	8.0	12.7	9.5
ICT goods imports (% of total goods imports)	9.6	11.5	11.2
ICT service exports (% of total service exports)	25.8	26.7	32.0
Applications			
Online service index (0-1, 1=highest presence)	0.50	0.77	0.67
Secure Internet servers (per million people)	437.1	1,145.6	1,194.6

Ethiopia

Sub-Saharan Africa

Low income

				L	
	Country	Country data		Country data	
	2010	2015	2015		
Economic and social context					
Population (millions)	88	99 19	638 31		
Urban population (% of total)	17 380	19 590	620		
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	10.7	10.0	5.4		
Adult literacy rate (% ages 15 and older)	39	49	0.1		
Gross primary, secondary, and tertiary school enrollment (%)	53		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)	М				
Mobile telephone service	M	М			
Internet service	M	M			
Foreign ownership (not allowed, restricted, allowed)	R B	No C			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	U			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	1.6	1.9			
Telecommunications investment (% of revenue)	36.2	78.1			
	50.2	70.1			
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	1.0	0.9	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	7.9	42.8	60.0		
Fixed-broadband subscriptions (per 100 people)	0.0 1.4ª	0.7	0.3 4.8		
Households with a computer (%) Households with Internet access at home (%)	1.4ª 1.1ª	3.5ª 9.8ª			
	1.1-	9.0-	/.1		
Usage	5.4	7.5			
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	111.5	46.5	 48.9		
Individuals using the Internet (%)	0.8ª	40.5 11.6ª			
	0.0	1110	0.0		
Quality Population covered by at least a 3G mobile network (%)	4	71	51		
International Internet bandwidth (bit/s per Internet user)	5,102	1,959	4,245		
Affordability Mobile-cellular sub-basket (\$ a month)	4.1	3.1	9.4		
Fixed-broadband sub-basket (\$ a month)	294.5	12.1	33.6		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	204.0	9.6	8.0		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	16.9	9.6	10.8		
Trade					
ICT goods exports (% of total goods exports)	0.2	0.2			
ICT goods imports (% of total goods imports)	8.4	4.6	3.4		
ICT service exports (% of total service exports)	8.9				
Applications					
Online service index (0-1, 1=highest presence)	0.20	0.46	0.11		
Secure Internet servers (per million people)	0.1	0.2	1.5		

The Little Data Book on Information and Communication Technology 2017

Faroe Islands

Europe & Central Asia

High income

	Count	Country data		Country data		Country data		Country data	Country data		Country data	Country data	Country data	Country data	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)	40.7	34.3	41.2												
Mobile-cellular telephone subscriptions (per 100 people)	119.9	127.3	124.5												
Fixed-broadband subscriptions (per 100 people)	32.6	36.4	31.0												
Households with a computer (%) Households with Internet access at home (%)			83.2 85.0												
Usage Int'l. voice traffic, total (minutes/subscription/month)															
Domestic mobile traffic (minutes/subscription/month)	82.1		195.9												
Individuals using the Internet (%)	75.2	94.2ª	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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.4 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)			0.67												
Secure Internet servers (per million people)	926.6	1,656.6	1,194.6												



East Asia & Pacific

Upper middle income

			Upper middle-
	Country data		income group
-	2010	2015	2015
Economic and social context			
Population (millions)	0.86	0.89	2,594
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	52 3,650	54 4,800	64 8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.4	4,000	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)	С	С	
Mobile telephone service	C	C	
Internet service	C	C	
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)			2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access	45.4		47.0
Fixed-telephone subscriptions (per 100 people)	15.1 81.1	8.1 108.2	17.3 105.1
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	2.7	100.2	
Households with a computer (%)	26.8ª	39.24	
Households with Internet access at home (%)	18.8ª	31.34	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 (%)	20.0ª	46.3	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 14.0	16.8 8.6	15.5 7.7
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	22.8	0.0 12.0	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

	Country 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		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)	C C	C C	
Mobile telephone service Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	А	
Reg. treatment of VoIP (banned, closed, no framework, allowed) A	A	
Sector efficiency and capacity	0.0	4 7	0.5
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)	23.3 156.3		41.2 124.5
Fixed-broadband subscriptions (per 100 people)	29.1	31.7	31.0
Households with a computer (%)	82.0	89.3	83.2
Households with Internet access at home (%)	80.5	89.9	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	 177.5		 195.9
Individuals using the Internet (%)	86.9	92.7	81.0
Quality	05	100	00
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)	13.1	11.0	14.2
Fixed-broadband sub-basket (\$ a month)	35.4		25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	8.7 12.7		10.4 14.4
		1010	
Trade ICT goods exports (% of total goods exports)	6.4	2.6	9.5
ICT goods imports (% of total goods imports)	8.2	6.2	11.2
ICT service exports (% of total service exports)	39.6	49.5	32.0
Applications	c •-		
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.48	0.77 1,781.6	0.67 1,194.6
	1,2 10.0	1,101.0	1,104.0



Europe & Central Asia

High income

	Count	Country data		Country data		Country data		Country data	i Country data		i Country data	High- income group
	2010	2015	2015									
Economic and social context Population (millions) Urban population (% of total)	65 78	67 80	1,187									
GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	43,790 0.5 	0.7	41,366 1.5 									
Gross primary, secondary, and tertiary school enrollment (%)	94	96	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)	R A	A A										
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.2 14.5	1.6 20.5	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 (%)	64.2 91.4 33.7 76.4 73.6	41.3	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 (%)	19.5 148.5 77.3		 195.9 81.0									
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	91 71,626	99 129,973	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)	49.5 30.1 15.4 28.3	33.7 23.3 22.2 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)	4.4 7.3 34.4	3.9 6.2 40.5	9.5 11.2 32.0									
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.68 296.4	1.00 809.3	<i>0.67</i> 1,194.6									

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
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			
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			
Int'l. voice traffic, total (minutes/subscription/month)	9.4 103.8	5.3 114.2	
Domestic mobile traffic (minutes/subscription/month)	49.0	114.2 64.6ª	195.9 81.0
Individuals using the Internet (%)	49.0	04.04	01.0
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			
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 14.4
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



Sub-Saharan Africa

Upper middle income

			Upper middle-
	Country	y data 2015	income group 2015
Economic and social context	2010	2010	2010
Population (millions)	2	2	2,594
Urban population (% of total)	86	87	64
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)	С	С	
International gateway(s) Mobile telephone service	C	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	No	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	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)	2.0	1.1	17.3
Mobile-cellular telephone subscriptions (per 100 people)	103.5	168.9	
Fixed-broadband subscriptions (per 100 people)	0.3	0.6	
Households with a computer (%)	7.6ª	13.7	48.7
Households with Internet access at home (%)	6.0ª	18.0	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	1.6		2.3
Domestic mobile traffic (minutes/subscription/month)			173.1
Individuals using the Internet (%)	7.2ª	23.5	52.1
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			
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.08 7.8	0.09 9.9	0.37 34.7
	18	99	

Gambia, The

Sub-Saharan Africa

Low income

	Osumtu	Country data		Lo inc	
-	2010	2015	group 2015		
Economic and social context	2020	2020	2020		
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	5.4		
Adult literacy rate (% ages 15 and older)		56			
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)	М	М			
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)	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 5.7ª	0.2	0.3		
Households with a computer (%)	3.8ª	8.9ª 13.3ª			
Households with Internet access at home (%)	3.0"	15.5	1.1		
Usage		6.7			
Int'l. voice traffic, total (minutes/subscription/month)		6.7			
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 9.2	42.3 17.1ª	48.9 9.5		
individuals using the internet (%)	9.2	17.15	9.0		
Quality	50ª	86ª	F 1		
Population covered by at least a 3G mobile network (%)					
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 service exports)					
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-
	Count 2010	ry data 2015	income group 2015
Economic and social context			
Population (millions)	4	4	2,594
Urban population (% of total)	53	54	64
GNI per capita, World Bank Atlas method (\$)	3,000	4,160	,
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.6	4.8	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 73	100 83	
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	С	
Internet service Foreign ownership (not allowed, restricted, allowed)	C A	C A	
Reg. treatment of VoIP (banned, closed, no framework, allowe		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.6	2.5	2.1
Telecommunications investment (% of revenue)	15.9	25.5	18.8
Sector performance			
Access	25.3	22.1	17.3
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	25.3 90.6		
Fixed-broadband subscriptions (per 100 people)	4.2		105.1
Households with a computer (%)	18.2		
Households with Internet access at home (%)	16.6	44.8	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	7.7		
Domestic mobile traffic (minutes/subscription/month)	65.3 26.9		173.1 52.1
Individuals using the Internet (%)	20.9	45.2	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	
Affordability			
Mobile-cellular sub-basket (\$ a month)	11.6		
Fixed-broadband sub-basket (\$ a month)	8.4		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	6.1	1.3	
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		
Secure Internet servers (per million people)	13.5	63.3	34.7

Germany

Europe & Central Asia

High income

	Count	Country data		Country data		Country data		Country 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	45,790	41,366						
GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.8	1.3	1.5						
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)		 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)	С	С							
Mobile telephone service	С	С							
Internet service	C	C							
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	A A	A							
	A	А							
Sector efficiency and capacity	1 5	1 /	25						
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	63.7	54.9	41.2						
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	106.5	116.7	41.2 124.5						
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		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)	39.4	38.8	25.2						
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.8 25.7	11.0 16.0	10.4 14.4						
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	23.7	10.0	14.4						
Trade			0.5						
ICT goods exports (% of total goods exports)	5.1		9.5						
ICT goods imports (% of total goods imports)	9.2 36.6		11.2 32.0						
ICT service exports (% of total service exports)	30.0	39.0	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- income
	Country 2010	y data 2015	group 2015
Economic and social context			
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)	Р	Р	
Mobile telephone service	Р		
Internet service	С		
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)	3.6		
Telecommunications investment (% of revenue)	65.5		
Sector performance			
Access			0.5
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	0.0	4.0	7 5
Int'l. voice traffic, total (minutes/subscription/month)	8.0	4.2	
Domestic mobile traffic (minutes/subscription/month)	89.5		152.0
Individuals using the Internet (%)	7.8	23.5	28.6
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			
ICT goods exports (% of total goods exports)	0.0	0.2	5.7
ICT goods imports (% of total goods imports)	7.1	3.8	7.6
ICT service exports (% of total service exports)			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

	Country data		High- income
	2010	2015	group 2015
Economic and social context			
Population (millions)	0.03	0.03	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			
Telecommunications revenue (% of GDP)			2.5
Telecommunications investment (% of revenue)			18.8
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'l. voice traffic, total (minutes/subscription/month)	44.1		
Domestic mobile traffic (minutes/subscription/month)	34.1		195.9
Individuals using the Internet (%)	65.0		81.0
Quality			
Population covered by at least a 3G mobile network (%)		100	99
International Internet bandwidth (bit/s per Internet user)	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)			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			
Applications Online service index (0-1, 1=highest presence)			0.67
		 11,002.5	1,194.6
	12,000.4	11,002.0	1,104.0



Europe & Central Asia

High income

	Count	Country data		Country data i	
-	2010	2015	group 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	,	41,366		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	-0.4	-3.7	1.5		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 103	95 106	 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	Р	Р			
Internet service	C	C			
Foreign ownership (not allowed, restricted, allowed)	A A	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	А			
Sector efficiency and capacity	2.1	2.0	0.5		
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	FO 1	40 5	41.0		
Fixed-telephone subscriptions (per 100 people)	53.1 110.6	46.5 114.0	41.2 124.5		
Mobile-cellular telephone subscriptions (per 100 people) 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	13.8			
Domestic mobile traffic (minutes/subscription/month)	45.0		 195.9		
Individuals using the Internet (%)	44.4	66.8	81.0		
-					
Quality Population covered by at least a 3G mobile network (%)	96	99	99		
International Internet bandwidth (bit/s per Internet user)		100,861			
	,	,	,		
Affordability	20.0	7.0	44.0		
Mobile-cellular sub-basket (\$ a month)	39.2 18.9	7.8 19.5	14.2 25.2		
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	34.7	19.5	25.2 10.4		
Mobile-b'band, postpaid computer-based, 500 km (\$ a month)	19.3	16.6	10.4		
	10.0	10.0	11.1		
Trade ICT goods exports (% of total goods exports)	2.0	2.4	9.5		
ICT goods imports (% of total goods imports)	4.8		3.3 11.2		
ICT service exports (% of total service exports)	7.6	8.1	32.0		
· · · · · · · · · · · · · · · · · · ·					
Applications	0.36	0.61	0.67		
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	126.4	192.0	1,194.6		
occure internet servers (per minion people)	120.4	152.0	1,104.0		

Greenland

Europe & Central Asia

High income

	Count	Country data		Country data		Country data		Country data	Country data		Country data	High- income
	2010	2015	group 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)			2.5 18.8									
			10.0									
Sector performance												
Access Fixed-telephone subscriptions (per 100 people)	38.6	27.9	41.2									
Mobile-cellular telephone subscriptions (per 100 people)	101.4	106.5	124.5									
Fixed-broadband subscriptions (per 100 people)	21.9	17.5	31.0									
Households with a computer (%)			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		195.9									
Individuals using the Internet (%)	63.0	67.6ª	81.0									
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 10.4									
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.4									
			1									
Trade												
ICT goods exports (% of total goods exports)	0.1	0.0	9.5									
ICT goods imports (% of total goods imports)	6.1	4.5	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)	1,089.5	1,318.7	1,194.6									

Grenada

Latin America & Caribbean

Upper middle income

			Upper middle-
		ry data	group
	2010	2015	2015
Economic and social context	0.10	0.11	2 504
Population (millions) Urban population (% of total)	0.10 36	0.11 36	2,594 64
GNI per capita, World Bank Atlas method (\$)	7.050	8,430	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	-0.6	2.2	4.5
Adult literacy rate (% ages 15 and older)			
Gross primary, secondary, and tertiary school enrollment (%)	91		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 Internet service	C C	C C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		No	
	, 110		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	7.0	6.7	2.1
Telecommunications investment (% of revenue)	13.7	11.9	
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	27.1 116.5	25.3 112.3	105.1
Fixed-broadband subscriptions (per 100 people)	13.8		
Households with a computer (%)	35.04		
Households with Internet access at home (%)	28.0	42.8	52.2
Usage Int'l. voice traffic, total (minutes/subscription/month)	46.6	42.3	2.3
Domestic mobile traffic (minutes/subscription/month)	200.9		
Individuals using the Internet (%)	27.04		
Quality			
Population covered by at least a 3G mobile network (%)		100	
International Internet bandwidth (bit/s per Internet user)	123,838	191,597	26,098
Affordability	407	00.0	0.5
Mobile-cellular sub-basket (\$ a month)	16.7 29.3	26.2 28.3	8.5 15.5
Fixed-broadband sub-basket (\$ a month)		28.3	15.5 7.7
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		17.0	
mobile-b balld, postpald computer-based, 1 db (\$ a molitil)		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	
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

	Country	Country data		i Country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	0.16	0.17	1,187		
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) Gross primary, secondary, and tertiary school enrollment (%)		100			
			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)			25		
Telecommunications investment (% of revenue)			2.5 18.8		
			10.0		
Sector performance					
Access Fixed-telephone subscriptions (per 100 people)					
Mobile-cellular telephone subscriptions (per 100 people)	41.1	40.0	41.2		
Fixed-broadband subscriptions (per 100 people)	 1.9	 1.8	124.5 31.0		
Households with a computer (%)	1.9	1.0	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)			 195.9		
Individuals using the Internet (%)	 54.0ª	 73.1ª			
Quality					
Quality Population covered by at least a 3G mobile network (%)			99		
International Internet bandwidth (bit/s per Internet user)			99 134,761		
			10 1,1 01		
Affordability					
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			14.2		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			25.2		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			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)			0.67		
Secure Internet servers (per million people)	244.6	206.0	1,194.6		

Latin America & Caribbean

Lower middle income

			Lower middle-
	Countr 2010	y data 2015	income group 2015
	2010	2015	2015
Economic and social context	15	16	2 0 2 7
Population (millions) Urban population (% of total)	15 49	16 52	2,927 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)	0		
International gateway(s)	С	С	
Mobile telephone service	С	С	
Internet service	C A	C R	
Foreign ownership (not allowed, restricted, allowed)		A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	INU	A	
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	90.5
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	
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
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	
ICT service exports (% of total service exports)	18.6	21.5	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.31	0.15	0.26
	9.7	20.7	7.4

Guinea

Sub-Saharan Africa

Low income

	Country	Country data		Country data İ	
	2010	2015	group 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				
Mobile telephone service	С	С			
Internet service	С	С			
Foreign ownership (not allowed, restricted, allowed)	R				
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	С			
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			
Fixed-broadband subscriptions (per 100 people)	0.0	0.0			
Households with a computer (%)	1.5ª 1.0ª	2.6ª 3.7ª			
Households with Internet access at home (%)	1.04	5.75	. 7.1		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)	 1 Oa	 4.7ª	48.9		
Individuals using the Internet (%)	1.0ª	4.7°	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

	Country	Country data		Country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	2	2	638		
Urban population (% of total)	45	49	31		
GNI per capita, World Bank Atlas method (\$)	540	590	620		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.3	2.3	5.4		
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)					
International gateway(s)	P P	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)	В	B			
	5	5			
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	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	42.7	69.3	60.0		
Fixed-broadband subscriptions (per 100 people)	0.1 1.9ª	0.1 2.7ª	0.3 4.8		
Households with a computer (%) Households with Internet access at home (%)	1.9° 1.3ª	2.1ª 2.1ª			
	1.0	2.1			
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)	 2.5ª	 3.5ª	48.9 9.5		
Individuals using the Internet (%)	2.04	3.04	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	4,245		
Affordability					
Mobile-cellular sub-basket (\$ a month)		12.3	9.4		
Fixed-broadband sub-basket (\$ a month)		49.0	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					
Online service index (0-1, 1=highest presence)	0.02	0.01	0.11		
Secure Internet servers (per million people)	0.6	1.6	1.5		

Guyana

Latin America & Caribbean

Upper middle income

			Upper middle-
	Countr	-	group
	2010	2015	2015
Economic and social context	0.75	0 77	0 50 4
Population (millions)	0.75 28	0.77 29	2,594
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	2,900	4,090	64 8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.2	4,030	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)	М	М	
International gateway(s)	P	M P	
Mobile telephone service Internet service	Р	r P	
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	18.8
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	105.1
Fixed-broadband subscriptions (per 100 people)	1.4	6.6	15.4
Households with a computer (%)	17.5ª	29.1ª	48.7
Households with Internet access at home (%)	15.7ª	26.1ª	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	14.0	15.1	2.3
Domestic mobile traffic (minutes/subscription/month)	36.3 29.9	30.2 38.2ª	173.1 52.1
Individuals using the Internet (%)	29.9	30.25	· J2.1
Quality Population covered by at least a 3G mobile network (%)	0		69
International Internet bandwidth (bit/s per Internet user)	6,126	25,607	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	9.4	13.1	8.5
Fixed-broadband sub-basket (\$ a month)	46.8	24.2	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		13.6	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		15.5	11.1
Trade	<u>.</u>		
ICT goods exports (% of total goods exports)	0.1	0.1	15.7
ICT goods imports (% of total goods imports)	2.9 32.1	2.3 23.3	14.4 25.7
ICT service exports (% of total service exports)	32.1	23.3	20.7
Applications	0.18	0.24	0.37
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	6.6	16.9	34.7
	0.0	10.9	34.7
Haiti

Latin America & Caribbean

Low income

	Country	y data	Low- income group
	2010	2015	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)	0	0	
International gateway(s)	C 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)		A	
	110	Л	
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)		0.0	0.3
Households with a computer (%)	5.9ª	9.4ª	
Households with Internet access at home (%)	2.7ª	4.4ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		0.6	
Domestic mobile traffic (minutes/subscription/month)		5.4	48.9
Individuals using the Internet (%)	8.4ª	12.2ª	9.5
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-
	Countr	y data 2015	income group 2015
	2010	2013	2015
Economic and social context Population (millions)	8	8	2,927
Urban population (% of total)	。 52	o 55	2,927
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	C D	47	
Telecommunications revenue (% of GDP)	6.2 10.1	4.7 12.8	
Telecommunications investment (% of revenue)	10.1	12.0	
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	23.0ª	
Households with Internet access at home (%)	6.8ª	22.8ª	
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	20.4ª	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	0.0	0.0	F 7
ICT goods exports (% of total goods exports)	0.2	0.2	5.7
ICT goods imports (% of total goods imports)	5.9	5.2 11.4	7.6 48.0
ICT service exports (% of total service exports)	10.6	11.4	48.0
Applications	0.20	0.40	0.00
Online service index (0-1, 1=highest presence)	0.30	0.40	0.26
Secure Internet servers (per million people)	8.4	13.1	7.4

Hong Kong SAR, China

East Asia & Pacific

	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 %) Adult literacy rate (% ages 15 and older)	7 100 33,620 3.4	2.8	1,187 81 41,366 1.5
Gross primary, secondary, and tertiary school enrollment (%)	91	93	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 	 Public C C	
Internet service		С	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)) A	 C	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.2 13.4		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 (%)	61.9 195.7 30.7 77.9 76.4		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 (%)	63.8 139.5 72.0		 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	99 777,030	99 4,155,651	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)	9.8 19.1 42.3 27.9	51.3 9.8	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)	44.2 42.8 16.4		9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 456.3	 904.5	0.67 1,194.6

Hungary

Europe & Central Asia

Count y data 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) 99 Gross primary, secondary, and tertiary school enrollment (%) 90 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) C C International gateway(s) C C Mobile telephone service P P Internet service C C
Population (millions)10101,187Urban population (% of total)697181GNI per capita, World Bank Atlas method (\$)13,09012,99041,366GDP growth, 2005-10 and 2010-15 (avg. annual %)-0.61.61.5Adult literacy rate (% ages 15 and older)99Gross primary, secondary, and tertiary school enrollment (%)909295Sector structureSeparate telecommunications/ICT regulatorYesYesLevel of competition (competition, partial comp., monopoly)International gateway(s)CCMobile telephone servicePPP
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) 99 Gross primary, secondary, and tertiary school enrollment (%) 90 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) C C International gateway(s) C C P Mobile telephone service P P P
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) 99 Gross primary, secondary, and tertiary school enrollment (%) 90 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) C C International gateway(s) C C Mobile telephone service P P
GDP growth, 2005-10 and 2010-15 (avg. annual %) -0.6 1.6 1.5 Adult literacy rate (% ages 15 and older) 99 Gross primary, secondary, and tertiary school enrollment (%) 90 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) C C Mobile telephone service P P P
Adult literacy rate (% ages 15 and older) 99 Gross primary, secondary, and tertiary school enrollment (%) 90 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) C C Mobile telephone service P P P
Gross primary, secondary, and tertiary school enrollment (%) 90 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) C C Mobile telephone service P P
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 Mobile telephone service P P
Status of main fixed-line telephone operator Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C Mobile telephone service P
Level of competition (competition, partial comp., monopoly) International gateway(s) C C Mobile telephone service P P
International gateway(s) C C Mobile telephone service P P
Mobile telephone service P P
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) 2.8 2.9 2.5
Telecommunications investment (% of GDP) 2.8 2.9 2.5 Telecommunications investment (% of revenue) 23.4 17.7 18.8
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
Int'l. voice traffic, total (minutes/subscription/month) 8.9
Domestic mobile traffic (minutes/subscription/month) 121.1 133.5 195.9
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
International Internet bandwidth (bit/s per Internet user) 9,985 55,410 134,761
Affordability
Mobile-cellular sub-basket (\$ a month) 27.6 21.5 14.2 Fixed-broadband sub-basket (\$ a month) 20.7 21.2 25.2
Fixed-broadband sub-basket (\$ a month)20.721.225.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)8.97.110.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 8.9 11.7 14.4
TradeICT goods exports (% of total goods exports)25.612.09.5
ICT goods imports (% of total goods imports) 21.2 12.5 11.2
ICT service exports (% of total service exports)21.211.2ICT service exports (% of total service exports)28.629.132.0
Applications
Online service index (0-1, 1=highest presence) 0.50 0.56 0.67
Secure Internet servers (per million people) 166.2 366.3 1,194.6

Iceland

Europe & Central Asia

201020152015201020152015201020152015201020152015201020152015Population (% of total)94949481GNP growth, 2005-10 and 2010-15 (ayg. annual %)1.42.51.5Adult literacy rate (% ages 15 and older)Gross primary, secondary, and tertiary school enrollment (%)9895Sector structureSector structureSector structureSector structureCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC <t< th=""><th></th><th>Count</th><th>ry data</th><th>High- income group</th></t<>		Count	ry data	High- income group
Population (millions) 0.32 0.33 $1,187$ Urban population (% of total)949481GNI per capita, World Bank Atlas method (\$) $36,670$ $49,730$ $41,366$ 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 (%)9895Sector structureSector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity1.91.82.5Telecommunications revenue (% of GDP)1.91.82.5Telecommunications investment (% of revenue)17.216.418.8Sector performanceAAAAccessNobile -cellular telephone subscriptions (per 100 people)107.2114.0124.5Fixed-broadband subscriptions (per 100 people)107.2114.0124.55.6Households with a computer (%)92.096.5ª85.00UsageInt'. voice traffic, total (minutes/subscription/month)19.014.7 <tr< th=""><th></th><th>2010</th><th>2015</th><th></th></tr<>		2010	2015	
Urban population (% of total)949481GNI per capita, World Bank Atlas method (\$) $36,670$ $49,730$ $41,366$ 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 structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP) 1.9 1.8 2.5 Telecommunications revenue (% of GDP) 1.9 1.8 37.0 31.0 Households with a computer (%)93.0 98.5^a 83.2 Households with a computer (%)93.0 98.5^a 83.2 Households with Internet access at home (%) 92 99 99 Inti'L voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 19.0 14.7 Internet tomolie traffic (minutes/subscription/month) 19.0 14.7 Internet tomolie traffic (minutes/subscription/month) <td< td=""><td></td><td>0.32</td><td>0.33</td><td>1 187</td></td<>		0.32	0.33	1 187
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) International gateway(s) C 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) A Sector efficiency and capacity Telecommunications investment (% of GDP) 1.9 1.8 2.5 Telecommunications investment (% of revenue) 17.2 16.4 18.8 Sector performance Access Access 83.0 94.1.2 Mobile-cellular telephone subscriptions (per 100 people) 107.2 114.0 124.5 Fixed-broadband subscriptions (per 100 people) 107.2 17.1 1.5.2 Mobile-cellul		94	94	,
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 98 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 Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 1.9 1.8 2.5 Telecommunications revenue (% of GDP) 1.9 1.8 2.5 Fector performance A A Access Fixed-telephone subscriptions (per 100 people) 107.2 114.0 124.5 Fixed-bendend subscriptions (per 100 people) 107.2 14.4 124.5 Fixed-broadband subscriptions (per 100 people) 107.2 14.4 124.5 Fixed-broadband subscriptions (per 100 people) 107.2 14.7 Mobile-cellular telephone subscription/month) 19.0	GNI per capita, World Bank Atlas method (\$)	36,670		41,366
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) International gateway(s) 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) 1.9 1.8 2.5 Telecommunications investment (% of revenue) 17.2 16.4 18.8 Sector performance A A A Access Fixed-telephone subscriptions (per 100 people) 107.2 114.0 124.5 Fixed-broadband subscriptions (per 100 people) 107.2 14.4 124.5 Households with a computer (%) 93.0 98.5ª 83.2 Households with Internet access at home (%) 92.0 96.5ª 85.0 Usage Int'l. voice traffic, (minutes/subscription/month) <		1.4	2.5	1.5
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)1.91.82.5Telecommunications investment (% of revenue)17.216.418.8Sector performanceAAAAccessFixed-telephone subscriptions (per 100 people)60.949.941.2Mobile-cellular telephone subscriptions (per 100 people)107.2114.0124.5Fixed-broadband subscriptions (per 100 people)30.098.5ª83.2Households with a computer (%)92.096.5ª85.0UsageIntrin. voice traffic, total (minutes/subscription/month)19.014.7Domestic mobile traffic (minutes/subscription/month)19.014.7Domestic mobile traffic (minutes/subscription/month)176.3173.1195.9Individuals using the Internet (%)929999International Internet bandwidth (bit/s per Internet user)297,960725,806134,761Mobile-cellular sub-basket (\$ a month)16.6<		 98		 95
Status of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternational gateway(s)CCCMobile telephone serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)1.91.82.5Telecommunications investment (% of revenue)17.216.418.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)60.949.941.2Mobile-cellular telephone subscriptions (per 100 people)107.2114.0124.5Fixed-broadband subscriptions (per 100 people)34.337.031.0Households with a computer (%)92.096.5 ^a 85.0UsageInt'l. voice traffic, total (minutes/subscription/month)19.014.7Domestic mobile traffic (minutes/subscription/month)176.3173.1195.9Individuals using the Internet (%)929999International Internet bandwidth (bit/s per Internet user)297,960725,806134,761AffordabilityMobile-cellular sub-basket (\$ a month)24.928.425.2Mobile-cellular sub-basket (\$ a month)24.928.425.2Mobile-cbluda usb-basket (\$ a month)24.928.425.2	Sector structure			
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)AASector efficiency and capacity Telecommunications revenue (% of GDP)1.91.82.5Telecommunications revenue (% of GPP)1.91.82.5Telecommunications investment (% of revenue)17.216.418.8Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)60.949.941.2Mobile-cellular telephone subscriptions (per 100 people)107.2114.0124.5Fixed-broadband subscriptions (per 100 people)34.337.031.0Households with a computer (%)93.098.5ª83.2Households with Internet access at home (%)92.096.5ª85.0UsageIntrinctific, total (minutes/subscription/month)19.014.7Domestic mobile traffic (minutes/subscription/month)19.014.7Individuals using the Internet (%)929999International Internet bandwidth (bit/s per Internet user)297,960725,806Mobile-cellular sub-basket (\$ a month)16.621.614.2Fixed-broadband sub-basket (\$ a month)24.928.425.2Mobile-cbluad, prepaid handset-based, 500 MB (\$ a mon				
International gateway(s)CCCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity1.91.82.5Telecommunications revenue (% of GDP)1.91.82.5Telecommunications investment (% of revenue)17.216.418.8Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)60.949.941.2Mobile-cellular telephone subscriptions (per 100 people)34.337.031.0Households with a computer (%)93.098.5ª83.2Households with Internet access at home (%)92.096.5ª85.0UsageInt'l. voice traffic, total (minutes/subscription/month)19.014.7Domestic mobile traffic (minutes/subscription/month)176.3173.1195.9Individuals using the Internet (%)93.498.2ª81.0QualityPopulation covered by at least a 3G mobile network (%)929999International Internet bandwidth (bit/s per Internet user)297,960725,806134,761Mobile-cellular sub-basket (\$ a month)16.621.614.2Fixed-broadband sub-basket (\$ a month)24.928.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)5.210.4		Mixed	Mixed	
Mobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)1.91.8Telecommunications investment (% of revenue)17.216.418.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)60.949.941.2Mobile-cellular telephone subscriptions (per 100 people)34.337.031.010.4Households with a computer (%)93.098.5 ^a 83.2Households with a computer (%)92.096.5 ^a 85.0UsageInt'l. voice traffic, total (minutes/subscription/month)19.014.7Domestic mobile traffic (minutes/subscription/month)176.3173.1195.9Individuals using the Internet (%)929999International Internet bandwidth (bit/s per Internet user)297,960725,806134,761AffordabilityMobile-cellular sub-basket (\$ a month)16.621.614.2Kixed-broadband sub-basket (\$ a month)24.928.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)5.210.4		C	C	
Internet service C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) A Sector efficiency and capacity Telecommunications revenue (% of GDP) 1.9 1.8 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) 107.2 114.0 124.5 Fixed-broadband subscriptions (per 100 people) 34.3 37.0 31.0 Households with a computer (%) 93.0 98.5 ^a 83.2 Households with internet access at home (%) 92.0 96.5 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 92 99 99 International Internet bandwidth (bit/s per Internet user) 297,960 725,806 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
Foreign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacity Telecommunications revenue (% of GDP)1.91.82.5Telecommunications investment (% of revenue)17.216.418.8Sector performance Access Fixed-telephone subscriptions (per 100 people)60.949.941.2Mobile-cellular telephone subscriptions (per 100 people)107.2114.0124.5Fixed-broadband subscriptions (per 100 people)34.337.031.0Households with a computer (%)93.098.5ª83.2Households with Internet access at home (%)92.096.5ª85.0Usage Int1. voice traffic, total (minutes/subscription/month)19.014.7Domestic mobile traffic (minutes/subscription/month)176.3173.1195.9Individuals using the Internet (%)929999International Internet bandwidth (bit/s per Internet user)297,960725,806134,761Affordability Mobile-cellular sub-basket (\$ a month)16.621.614.2Kixed-broadband sub-basket (\$ a month)24.928.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)5.210.4	•			
Reg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)1.91.82.5Telecommunications investment (% of revenue)17.216.418.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)60.949.941.2Mobile-cellular telephone subscriptions (per 100 people)107.2114.0124.5Fixed-broadband subscriptions (per 100 people)34.337.031.0Households with a computer (%)93.098.5ª83.2Households with Internet access at home (%)92.096.5ª85.0UsageInt'l. voice traffic, total (minutes/subscription/month)19.014.7Domestic mobile traffic (minutes/subscription/month)176.3173.1195.9Individuals using the Internet (%)93.498.2ª81.0QualityPopulation covered by at least a 3G mobile network (%)929999International Internet bandwidth (bit/s per Internet user)297,960725,806134,761AffordabilityMobile-cellular sub-basket (\$ a month)16.621.614.2Fixed-broadband sub-basket (\$ a month)24.928.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)5.210.4				
Telecommunications revenue (% of GDP) 1.9 1.8 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) 107.2 114.0 124.5 Fixed-broadband subscriptions (per 100 people) 34.3 37.0 31.0 Households with a computer (%) 93.0 98.5 ^a 83.2 Households with Internet access at home (%) 92.0 96.5 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 93.4 98.2 ^a 81.0 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 <		А	А	
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Fixed-telephone subscriptions (per 100 people) 60.9 49.9 41.2 Mobile-cellular telephone subscriptions (per 100 people) 107.2 114.0 124.5 Fixed-broadband subscriptions (per 100 people) 34.3 37.0 31.0 Households with a computer (%) 93.0 98.5 ^a 83.2 Households with Internet access at home (%) 92.0 96.5 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 93.4 98.2 ^a 81.0 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 Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 10.4 <td>Sector performance</td> <td></td> <td></td> <td></td>	Sector performance			
Mobile-cellular telephone subscriptions (per 100 people) 107.2 114.0 124.5 Fixed-broadband subscriptions (per 100 people) 34.3 37.0 31.0 Households with a computer (%) 93.0 98.5 ^a 83.2 Households with Internet access at home (%) 92.0 96.5 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 93.4 98.2 ^a 81.0 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 Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4		<u> </u>	10.0	44.0
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 Int'l. voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 93.4 98.2ª 81.0 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 Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Kixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
Households with a computer (%) 93.0 98.5 ^a 83.2 Households with a computer (%) 92.0 96.5 ^a 85.0 Usage 111. voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 93.4 98.2 ^a 81.0 Quality 92 99 99 International Internet bandwidth (bit/s per Internet user) 297,960 725,806 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
Households with Internet access at home (%) 92.0 96.5 ^a 85.0 Usage Int'I. voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 93.4 98.2 ^a 81.0 Quality 92 99 99 International Internet bandwidth (bit/s per Internet user) 297,960 725,806 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
Int'I. voice traffic, total (minutes/subscription/month) 19.0 14.7 Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 93.4 98.2ª 81.0 Quality 90 93.4 98.2ª 81.0 Quality 92 99 99 14.7 Affordability 92 99 99 14.7 Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.7 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
Domestic mobile traffic (minutes/subscription/month) 176.3 173.1 195.9 Individuals using the Internet (%) 93.4 98.2ª 81.0 Quality 90 93.4 98.2ª 81.0 Quality 92 99 99 99 International Internet bandwidth (bit/s per Internet user) 297,960 725,806 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4	Usage			
Individuals using the Internet (%)93.498.2ª81.0Quality9091929999Population covered by at least a 3G mobile network (%)929999International Internet bandwidth (bit/s per Internet user)297,960725,806134,761Affordability16.621.614.2Fixed-broadband sub-basket (\$ a month)16.621.614.2Fixed-broadband sub-basket (\$ a month)24.928.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)5.210.4	Int'l. voice traffic, total (minutes/subscription/month)	19.0	14.7	
Quality 92 99 99 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 Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
Population covered by at least a 3G mobile network (%)9299International Internet bandwidth (bit/s per Internet user)297,960725,806134,761Affordability Mobile-cellular sub-basket (\$ a month)16.621.614.2Fixed-broadband sub-basket (\$ a month)24.928.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)5.210.4	Individuals using the Internet (%)	93.4	98.2ª	81.0
Affordability297,960725,806134,761Affordability16.621.614.2Fixed-broadband sub-basket (\$ a month)24.928.425.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)5.210.4		00	00	00
Affordability Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
Mobile-cellular sub-basket (\$ a month) 16.6 21.6 14.2 Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4		291,900	123,800	134,701
Fixed-broadband sub-basket (\$ a month) 24.9 28.4 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 5.2 10.4				
	Mobile-b balld, postpald computer-based, 1 db (\$ a month)	0.7	0.0	14.4
Trade 0.1 0.2 9.5		0.1	0.2	9,5
ICT goods imports (% of total goods imports) 4.3 5.1 11.2		4.3	5.1	11.2
ICT service exports (% of total service exports) 12.1 32.0			12.1	
Applications	Applications			
Online service index (0-1, 1=highest presence) 0.40 0.61 0.67				
Secure Internet servers (per million people) 2,524.8 3,406.7 1,194.6	Secure Internet servers (per million people)	2,524.8	3,406.7	1,194.6

India

South Asia

Lower middle income

		iuuic i	Lower
	Country	, data	middle- income
	2010	2015	group 2015
Formation and possible contant	2010	2013	2013
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 A	R C	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	U	
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)	2.9	2.0	3.5
Mobile-cellular telephone subscriptions (per 100 people)	62.4 0.9	78.8 1.3	90.5 1.9
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.9 6.7ª	1.5 14.1ª	
Households with a computer (%)	4.5	20.0ª	
		2010	
Usage	5.7	7.7	7.5
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	129.1	168.8	152.0
Individuals using the Internet (%)	7.5ª	26.0ª	
	110	2010	2010
Quality	0		
Population covered by at least a 3G mobile network (%)	0 5,917	 E 70E	 10,372
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 4.7	4.0	5.8 10.0
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			
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- income
	Countr	y data 2015	group 2015
Economic and social context			
Population (millions)	242	258	2,927
Urban population (% of total)	50	54	39
GNI per capita, World Bank Atlas method (\$)	2,530	3,440	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.7	5.5	
Adult literacy rate (% ages 15 and older)	93	95	
Gross primary, secondary, and tertiary school enrollment (%)	74	77	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	P	
Mobile telephone service	C C	P C	
Internet service Foreign ownership (not allowed, restricted, allowed)		R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	 A	A	
	~	~	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	1.8		
Telecommunications investment (% of revenue)	20.6		
	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	a
International Internet bandwidth (bit/s per Internet user)	2,473	6,584	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	7.8	5.4	6.9
Fixed-broadband sub-basket (\$ a month)	21.6	28.8	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	2.1	4.1	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.4	4.1	10.0
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	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.24	0.36	0.26
oninie service index (o 1, 1 ingliest presence)			

Iran, Islamic Rep.

Middle East & North Africa

Upper middle income

			Upper middle-		
	Country data				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, World Bank Atlas method (\$)	6,020	6,550	8,186		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.6	-1.0	4.5		
Adult literacy rate (% ages 15 and older)	84	87			
Gross primary, secondary, and tertiary school enrollment (%)	72	88	81		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Public	Mixed			
Level of competition (competition, partial comp., monopoly)	1 00110	matod			
International gateway(s)	М	М			
Mobile telephone service	С	С			
Internet service	С	P			
Foreign ownership (not allowed, restricted, allowed)	R	R			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	A			
Sector efficiency and capacity	0.1	1.0	0.1		
Telecommunications revenue (% of GDP)	2.1	1.8	2.1		
Telecommunications investment (% of revenue)	91.4		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	53.4ª			
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			
Quality					
Population covered by at least a 3G mobile network (%)	0	60	69		
International Internet bandwidth (bit/s per Internet user)	2,264	8,502	26,098		
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					
ICT goods exports (% of total goods exports)	0.0		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)	0.27	0.37	0.37		
Secure Internet servers (per million people)	0.7	5.5	34.7		



Middle East & North Africa

Upper middle income

	pper m		Upper middle-
	Country	y data	income
	2010	2015	2015
Economic and social context			
Population (millions)	31	36	2,594
Urban population (% of total)	69	69	64
GNI per capita, <i>World Bank Atlas</i> method (\$)	4,410	5,550	8,186 4.5
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	5.5	5.6 80	4.5
Gross primary, secondary, and tertiary school enrollment (%)			
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	Р	P	
Internet service	P R	Р	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		 A	
	D	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)	5.6	5.6	17.3
Mobile-cellular telephone subscriptions (per 100 people)	75.1	93.8	105.1
Fixed-broadband subscriptions (per 100 people)	0.0		15.4
Households with a computer (%)	20.6ª	27.2	48.7
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)	 2.5	 17.2ª	173.1 52.1
Individuals using the Internet (%)	2.0	17.29	· JZ.1
Quality Population covered by at least a 3G mobile network (%)		554	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)			13.7
ICT service exports (% of total service exports)	4.5		25.7
Applications			
Applications Online service index (0-1, 1=highest presence)	0.15	0.20	0.37

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Ireland

Europe & Central Asia

High income

	Count	ry data	High- income
	2010	2015	group 2015
Economic and social context Population (millions)	5	5	1,187
Urban population (% of total)	62	63	81
GNI per capita, World Bank Atlas method (\$)	44,740	,	41,366
GDP growth, 2005–10 and 2010–15 (avg. annual %)	0.3	3.0	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 104		 95
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)	0	С	
International gateway(s) Mobile telephone service	C C	C	
Internet service	C		
Foreign ownership (not allowed, restricted, allowed)	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	1.7	1.6	2.5
Telecommunications investment (% of revenue)	15.7		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 (%)	46.5 105.2 22.8 76.5		41.2 124.5 31.0 83.2
Households with Internet access at home (%)	71.7	84.9	85.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 172.8 69.9	 178.5 80.1	 195.9 81.0
Quality			
Population covered by at least a 3G mobile network (%)	95	95	99
International Internet bandwidth (bit/s per Internet user)	64,090	155,521	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)	37.3 32.9 38.6 38.6	33.3 49.9 5.5 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)	7.5 10.2 64.9		9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.50 980.7	0.68 850.7	0.67 1,194.6

isle of Man

Europe & Central Asia

201020152015Economic and social contextPopulation (millions)0.080.091,187Urban population (% of total)525281GN per capita, World Bank Atlas method (\$)72,04083,92041,366GDP growth, 2005-10 and 2010-15 (avg. annual %)7.15.31.5Adult literacy rate (% ages 15 and older)Gross primary, secondary, and tertiary school enrollment (%).Sector structureSector structureSector structureSector structureSector structureSector structureSector structureSector structureSector structure <th></th> <th>Count</th> <th>ry data</th> <th>High- income</th>		Count	ry data	High- income
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 (%) Sector structure Sector structure Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VolP (banned, closed, no framework, allowed) Felecommunications investment (% of GDP) Feleconpetions subscriptions (per 100 people)		2010	2015	group 2015
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Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) 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 Internet access at home (%) Households with Internet access at home (%) Population covered by at least a 3G mobile network (%)	Sector structure			
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Quality Population covered by at least a 3G mobile network (%)	Domestic mobile traffic (minutes/subscription/month)			
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Trade				1
	Trade			0.5
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	ICT Service exports (% of total service exports)			32.0
Applications	Applications			
Online service index (0-1, 1=highest presence) 0.67	Online service index (0-1, 1=highest presence)			
Secure Internet servers (per million people) 818.2 3,201.2 1,194.6	Secure Internet servers (per million people)	818.2	3,201.2	1,194.6

Israel

Middle East & North Africa

2010 2015 2015 Economic and social context Population (millions) 8 8 1,187 Urban population (% of total) 92 92 81 GNI per capital, World Bank Atlas method (\$) 29,640 35,440 41,32 1.5 Adult Iteracy rate (% ages 15 and older) Sector structure Separate telecommunications/ICT regulator No No No Status of main fixed-line telephone operator Mixed Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C International gateway(s) C C C C D Private Level of competition (competition, closed, no framework, allowed) R R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity E Telecommunications investment (% of foP) 3.4 2.2 2.5 Fixed-telephone subscriptions (per 100 people) 23.7 27.4 31.0		Counti	rv data	High- income
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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) 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) A A Sector efficiency and capacity 12.0 12.1 18.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 45.9 43.1 41.2 Mobile-cellular telephone subscriptions (per 100 people) 23.7 27.4 31.0 Households with a computer (%) 68.1 76.0 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) 67.5 7.8.9 ^a 81.0 76.1 85.0		4.1	3.2	1.5
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Online service index (0-1, 1=highest presence) 0.58 0.87 0.67	A			
		0.58	0.87	0.67
500.1 200.0 1,134.0	Secure Internet servers (per million people)	396.7	288.8	1,194.6

Italy

Europe & Central Asia

	Counti	y data	High- income 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) Gross primary, secondary, and tertiary school enrollment (%)	99 92	99 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)			
International gateway(s)		С	
Mobile telephone service	Р	С	
Internet service	C	С	
Foreign ownership (not allowed, restricted, allowed)	A A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	А	
Sector efficiency and capacity	1.0		0.5
Telecommunications revenue (% of GDP)	1.9 20.0	1.4 27.7	2.5 18.8
Telecommunications investment (% of revenue)	20.0	21.1	10.0
Sector performance			
Access	27.0	33.1	41.2
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	37.2 154.8	151.3	41.2 124.5
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			
Population covered by at least a 3G mobile network (%)	80	99	99
International Internet bandwidth (bit/s per Internet user)	61,574	11,322	134,761
Affordability		40.0	
Mobile-cellular sub-basket (\$ a month)	29.8	18.3	14.2
Fixed-broadband sub-basket (\$ a month)	26.2 12.9	27.6 16.6	25.2 10.4
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	30.9	10.0	10.4
	50.5	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	3.3 11.2
ICT service exports (% of total service exports)	30.8	30.5	32.0
Annilastions			
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
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Jamaica

Latin America & Caribbean

Upper middle income

$\begin{tabular}{ c c c c } \hline \hline Country data \\ \hline group \\ \hline \hline 2010 & 2015 & 2015 \\ \hline 2010 & 2010 & 2015 \\ \hline 2010$				Upper middle-
Economic and social contextPopulation (millions)332,59Urban population (% of total)54556GNI per capita, World Bank Atlas method (\$)4,5705,0108,18GDP growth, 2005-10 and 2010-15 (avg. annual %)-0.70.54.Adult literacy rate (% ages 15 and older)88Gross primary, secondary, and tertiary school enrollment (%)8Sector structureSector structureSector structureVesYesSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorMixedPrivateLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector performanceZe.726.118.AccessFixed-telephone subscriptions (per 100 people)116.1111.5105.Fixed-broadband subscriptions (per 100 people)4.35.815.Households with a computer (%)22.734.3ª4.8Households with a computer (%)22.734.3ª4.8Households with Internet access at home (%)14.030.3ª52.UsageInt'. voice traffic, (total (minutes/subscription/month)71.772.12.Domestic mobile traffic (minutes/subscr	-		-	group
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Urban population ($\%$ of total)54556GNI per capita, World Bank Atlas method ($\$$)4,5705,0108,18GDP growth, 2005-10 and 2010-15 (avg. annual $\%$)-0.70.54.Adult literacy rate ($\%$ ages 15 and older)88Gross primary, secondary, and tertiary school enrollment ($\%$)8Sector structureSector structureSector structureSector structure8Sector structureVesYesYesYesStatus of main fixed-line telephone operatorMixedPrivateLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacitySector performance26.726.1AccessNobile-cellular telephone subscriptions (per 100 people)116.1111.5105.Fixed-telephone subscriptions (per 100 people)4.35.815.Households with a computer ($\%$)22.734.3ª48.Households with a computer ($\%$)14.030.3ª52.UsageInt'. voice traffic, total (minutes/subscription/month)71.772.12.Domestic mobile traffic (minutes/subscription/month)191.9188.1173.		2	2	2 504
GNI per capita, World Bank Atlas method (\$)4,5705,0108,18GDP growth, 2005-10 and 2010-15 (avg. annual %)-0.70.54.Adult literacy rate (% ages 15 and older)88Gross primary, secondary, and tertiary school enrollment (%)8Sector structureSeparate telecommunications/ICT regulatorYesYesSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorMixedPrivateLevel of competition (competition, partial comp., monopoly)CCCInternational gateway(s)CCCMobile telephone serviceCCCInternational gateway(s)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoAAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector performanceAccessAccess5.815.Fixed-telephone subscriptions (per 100 people)9.69.017.Mobile-cellular telephone subscriptions (per 100 people)16.1111.5105.Fixed-broadband subscriptions (per 100 people)4.35.815.Households with a computer (%)22.734.3ª4.8Households with a computer (%)14.030.3ª52.UsageInt'. voice traffic, total (minutes/subscription/month)71.772.12.Domestic mobile traffic (minutes/subscription/month)191.9188.1173.				2,594
GDP growth, 2005-10 and 2010-15 (avg. annual %)-0.70.54.Adult literacy rate (% ages 15 and older) <td></td> <td></td> <td></td> <td>8,186</td>				8,186
Adult literacy rate (% ages 15 and older) 88 Gross primary, secondary, and tertiary school enrollment (%) 8 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Private Level of competition (competition, partial comp., monopoly) C C International gateway(s) C C 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 A Sector efficiency and capacity Telecommunications investment (% of revenue) 26.7 26.1 18. Sector performance A				4.5
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Status of main fixed-line telephone operator Mixed Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C International 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) No A Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.3 4.2 2. Telecommunications investment (% of revenue) 26.7 26.1 18. Sector performance A A A A Access Fixed-telephone subscriptions (per 100 people) 116.1 111.5 105. Fixed-broadband subscriptions (per 100 people) 4.3 5.8 15. Households with a computer (%) 22.7 34.3ª 48. Households with Internet access at home (%) 14.0 30.3ª 52. Usage Int'. voice traffic, total (minutes/subscription/month) 71.7 72.1 2.	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s) C C 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 A Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.3 4.2 2. Telecommunications investment (% of revenue) 26.7 26.1 18. Sector performance Access Fixed-telephone subscriptions (per 100 people) 116.1 111.5 105. Fixed-telephone subscriptions (per 100 people) 4.3 5.8 15. 15. Households with a computer (%) 22.7 34.3ª 48. Households with Internet access at home (%) 14.0 30.3ª 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.	Separate telecommunications/ICT regulator			
International gateway(s)CCCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityTelecommunications revenue (% of GDP)4.34.22.Telecommunications investment (% of revenue)26.726.118.Sector performanceAccessFixed-telephone subscriptions (per 100 people)116.1111.5105.Fixed-telephone subscriptions (per 100 people)4.35.815.15.Households with a computer (%)22.734.3ª48.48.Households with Internet access at home (%)14.030.3ª52.100.3ªUsageInt'l. voice traffic, total (minutes/subscription/month)71.772.12.2.Domestic mobile traffic (minutes/subscription/month)191.9188.1173.	Status of main fixed-line telephone operator	Mixed	Private	
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) No A Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.3 4.2 2. Telecommunications investment (% of revenue) 26.7 26.1 18. Sector performance A A A Access Fixed-telephone subscriptions (per 100 people) 9.6 9.0 17. Mobile-cellular telephone subscriptions (per 100 people) 4.3 5.8 15. Households with a computer (%) 22.7 34.3ª 48. Households with internet access at home (%) 14.0 30.3ª 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.				
Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Itelecommunications revenue (% of GDP) 4.3 4.2 2. Telecommunications investment (% of revenue) 26.7 26.1 18. Sector performance Access Access Fixed-telephone subscriptions (per 100 people) 116.1 111.5 105. Fixed-broadband subscriptions (per 100 people) 4.3 5.8 15. 15. Households with a computer (%) 22.7 34.3ª 48. Households with Internet access at home (%) 14.0 30.3ª 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.				
Foreign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacity Telecommunications revenue (% of GDP)4.34.22.Telecommunications investment (% of revenue)26.726.118.Sector performance AccessA5.815.Households with a computer (%)100 people)4.35.815.Households with a computer (%)22.734.3ª48.48.Households with Internet access at home (%)14.030.3ª52.Usage Int'l. voice traffic, total (minutes/subscription/month)71.772.12.Domestic mobile traffic (minutes/subscription/month)191.9188.1173.				
Reg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityTelecommunications revenue (% of GDP)4.34.22.Telecommunications investment (% of revenue)26.726.118.Sector performanceAccessFixed-telephone subscriptions (per 100 people)9.69.017.Mobile-cellular telephone subscriptions (per 100 people)116.1111.5105.Fixed-broadband subscriptions (per 100 people)4.35.815.Households with a computer (%)22.734.3a48.Households with Internet access at home (%)14.030.3a52.UsageInt'l. voice traffic, total (minutes/subscription/month)71.772.12.Domestic mobile traffic (minutes/subscription/month)191.9188.1173.				
Telecommunications revenue (% of GDP) 4.3 4.2 2. Telecommunications investment (% of revenue) 26.7 26.1 18. Sector performance Access Fixed-telephone subscriptions (per 100 people) 9.6 9.0 17. Mobile-cellular telephone subscriptions (per 100 people) 116.1 111.5 105. Fixed-telephone subscriptions (per 100 people) 4.3 5.8 15. Households with a computer (%) 22.7 34.3 ^a 48. Households with Internet access at home (%) 14.0 30.3 ^a 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.	• • • • • •			
Telecommunications revenue (% of GDP) 4.3 4.2 2. Telecommunications investment (% of revenue) 26.7 26.1 18. Sector performance Access Fixed-telephone subscriptions (per 100 people) 9.6 9.0 17. Mobile-cellular telephone subscriptions (per 100 people) 116.1 111.5 105. Fixed-telephone subscriptions (per 100 people) 4.3 5.8 15. Households with a computer (%) 22.7 34.3 ^a 48. Households with Internet access at home (%) 14.0 30.3 ^a 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.	Sontar officiancy and canacity			
Telecommunications investment (% of revenue) 26.7 26.1 18. Sector performance Access 7 1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4.3	42	2.1
Access 9.6 9.0 17. Mobile-cellular telephone subscriptions (per 100 people) 116.1 111.5 105. Fixed-broadband subscriptions (per 100 people) 14.1 11.5 105. Fixed-broadband subscriptions (per 100 people) 4.3 5.8 15. Households with a computer (%) 22.7 34.3ª 48. Households with Internet access at home (%) 14.0 30.3ª 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.				18.8
Mobile-cellular telephone subscriptions (per 100 people) 116.1 111.5 105. Fixed-broadband subscriptions (per 100 people) 4.3 5.8 15. Households with a computer (%) 22.7 34.3 ^a 48. Households with Internet access at home (%) 14.0 30.3 ^a 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.	Access	0.0	0.0	17.0
Fixed-broadband subscriptions (per 100 people) 4.3 5.8 15. Households with a computer (%) 22.7 34.3ª 48. Households with Internet access at home (%) 14.0 30.3ª 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.				
Households with a computer (%) 22.7 34.3ª 48. Households with Internet access at home (%) 14.0 30.3ª 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.				
Households with Internet access at home (%) 14.0 30.3 ^a 52. Usage Int'l. voice traffic, total (minutes/subscription/month) 71.7 72.1 2. Domestic mobile traffic (minutes/subscription/month) 191.9 188.1 173.				
Int'l. voice traffic, total (minutes/subscription/month)71.772.12.Domestic mobile traffic (minutes/subscription/month)191.9188.1173.				
Int'l. voice traffic, total (minutes/subscription/month)71.772.12.Domestic mobile traffic (minutes/subscription/month)191.9188.1173.	Usage			
		71.7	72.1	2.3
Individuals using the Internet (%) $27.7 43.2^{\circ} 52.$	Domestic mobile traffic (minutes/subscription/month)	191.9	188.1	173.1
	Individuals using the Internet (%)	27.7	43.24	52.1
Quality	Quality			
				69
International Internet bandwidth (bit/s per Internet user) 10,546 13,261 26,09	International Internet bandwidth (bit/s per Internet user)	10,546	13,261	26,098
Affordability				
				8.5
				15.5
				7.7 11.1
		10.0	12.0	11.1
TradeICT goods exports (% of total goods exports)0.40.315.		0.4	03	15.7
Sector subsect (in the sector subsect)				14.4
				25.7
Applications	Annlications			
		0.23	0.31	0.37
		39.4	65.7	34.7



East Asia & Pacific

High income

	Counti	y data	High- income group
	2010	2015	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
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)	С	0	
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)	2.8		2.5
Telecommunications investment (% of revenue)	11.1		18.8
0			
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	51.5	50.2	41.2
Mobile-cellular telephone subscriptions (per 100 people)	96.8	125.1	124.5
Fixed-broadband subscriptions (per 100 people)	26.8	30.5	31.0
Households with a computer (%)	83.4	80.0ª	83.2
Households with Internet access at home (%)	81.3	96.5ª	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	2.3		
Domestic mobile traffic (minutes/subscription/month)	98.1		195.9
Individuals using the Internet (%)	78.2	93.3ª	81.0
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

			Upper middle-
	Countr	y data 2015	income group 2015
Economic and social context	2010	2010	2010
Population (millions)	7	8	2,594
Urban population (% of total)	82	84	2,354
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	98	
Gross primary, secondary, and tertiary school enrollment (%)	77		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	Р	P	
Internet service	C	С	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	A A	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) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	7.5 102.6 4.5 46.7 21.6	4.8 179.4 4.2 47.0ª 75.9ª	
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	17.0 230.2 27.2	11.2 256.6 53.4ª	2.3 173.1 52.1
Quality	50		
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	50 7,405	99 27,524	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)	10.5 30.1 8.5 14.1	5.0 30.3 4.9 9.1	8.5 15.5 7.7 11.1
Trade ICT goods exports (% of total goods exports)	1.3	1.9	15.7
	4.3	3.2	13.7
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.5	5.2 5.6	25.7
Applications Online service index (0-1, 1=highest presence)	0.53	0.52	0.37
omme service muck (0-1, 1-mgnest presence)	18.4	27.7	34.7

Kazakhstan

Europe & Central Asia

Upper middle income

			Upper middle-
	Countr	y data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	16	18	,
Urban population (% of total)	54 7,440	11 590	
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	7,440 5.7	11,580 4.7	0,100 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)	С	С	
Mobile telephone service	P	P	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.2	1.7	
Telecommunications investment (% of revenue)	15.1	17.1	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	25.5	24.7	17.3
Mobile-cellular telephone subscriptions (per 100 people)	121.9	187.2	
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 68.4	3.8 131.8	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	31.6	72.9	
Quality			
Population covered by at least a 3G mobile network (%)		73	69
International Internet bandwidth (bit/s per Internet user)	9,306	69,615	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.2	6.0	
Fixed-broadband sub-basket (\$ a month)	23.9 6.6	8.7 4.5	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.6	4.5 4.5	
Trada			
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	
ICT service exports (% of total service exports)	11.6	11.1	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.53 5.2	0.75 17.6	
Secure Internet servers (per million people)			

Kenya

Sub-Saharan Africa

Lower middle income

			Lower middle-
	Country 2010	y data 2015	income group 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	C	
Mobile telephone service	С	C	
Internet service	C R	C R	
Foreign ownership (not allowed, restricted, allowed)		R A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)) A	A	
Sector efficiency and capacity	3.4	3.7	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	52.2	30.2	
	52.2	50.2	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	0.9	0.2	3.5
Mobile-cellular telephone subscriptions (per 100 people)	61.0	80.7	90.5
Fixed-broadband subscriptions (per 100 people)	0.0	0.3	
Households with a computer (%)	6.5ª	13.14	
Households with Internet access at home (%)	6.3ª	19.6	
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	45.6	28.6
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			
Online service index (0-1, 1=highest presence)	0.24	0.43	0.26
	2.6	9.1	7.4

Kiribati

East Asia & Pacific

Lower middle income

			Lower middle-
	Countr	-	income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.10	0.11	2,927
Urban population (% of total)	44	2 2 2 2 0	39 2,035
GNI per capita, World Bank Atlas method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	1,990 1.5	3,230 3.1	2,035
Adult literacy rate (% ages 15 and older)			
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)			
Mobile telephone service	 P	P	
Internet service	C	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 Fixed-telephone subscriptions (per 100 people)	8.6	1.4	3.5
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) Domestic mobile traffic (minutes/subscription/month)			7.5 152.0
Individuals using the Internet (%)	 9.1	 13.0ª	
	0.1	10.0	20.0
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	7.0		
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	7.3 1.8	0.0 5.0	5.7 7.6
ICT service exports (% of total service exports)	1.0	5.0	48.0
Applications	0.03	0.21	0.26
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	9.7	8.9	7.4
	0.1	0.0	

Korea, Dem. People's Rep.

East Asia & Pacific

Low income

	Country	Country data	
	2010	2015	group 2015
Economic and social context			
Population (millions)	25	25	638
Urban population (% of total)	60	61	31
GNI per capita, World Bank Atlas method (\$)			620
GDP growth, 2005–10 and 2010–15 (avg. annual %)		100	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	100 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	 No		
Foreign ownership (not allowed, restricted, allowed)	B	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	D	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	4.8	4.7	0.9
Mobile-cellular telephone subscriptions (per 100 people)	1.8	12.9	60.0
Fixed-broadband subscriptions (per 100 people)			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)			 48.9
Individuals using the Internet (%)	 0.0ª		40.5 9.5
individuals using the internet (70)	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)	0.02	0.01	0.11
Secure Internet servers (per million people)	0.0	0.0	1.0

Korea, Rep.

East Asia & Pacific

	Count	Country data		H Country data	
	2010	2015	group 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 (avg. annual %)	3.8	2.9	1.5		
Adult 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			
Status of main fixed-line telephone operator	Private	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)	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 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				
Domestic mobile traffic (minutes/subscription/month)	175.6		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)	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					
Online service index (0-1, 1=highest presence)	1.00	0.98	0.67		
Secure Internet servers (per million people)	1,128.1	2,319.6	1,194.6		
·····					

Kosovo

Europe & Central Asia	Lower m	wer middle i		
	Counti	v data	Lower middle- income	
	2010	2015	group 2015	
Economic and social context	2010	2010	2010	
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)				
Gross primary, secondary, and tertiary school enrollment (%)			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	d)			
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)				
Telecommunications investment (% of revenue)				
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	6.1		3.5	
Mobile-cellular telephone subscriptions (per 100 people)	32.4		90.5	
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)			1.9 19.3	
Households with Internet access at home (%)			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 (%)			28.6	
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)				
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	
Secure Internet convers (per million people)			7 /	

7.4

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Secure Internet servers (per million people)

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Kuwait

Middle East & North Africa

	Countr	y data	High- income group
	2010	2015	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 96	2.7 96	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)		90 75	 95
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Public	Public	
International gateway(s)	М	М	
Mobile telephone service	M	М	
Internet service	Р	Р	
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		10.1	44.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	17.4 133.0	13.4 231.8	41.2 124.5
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	
Quality			
Population covered by at least a 3G mobile network (%)		100ª	
International Internet bandwidth (bit/s per Internet user)	43,553	48,619	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	7.8	14.2	14.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	19.2 28.6	10.5 16.6	25.2 10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	25.0	36.6	14.4
Trade			
ICT goods exports (% of total goods exports)	0.3	0.1	9.5
ICT goods imports (% of total goods imports)	6.4 39.5	7.2 45.0	11.2 32.0
ICT service exports (% of total service exports)	39.0	40.0	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	ia Lower middle income		
	Countr	v data	Lower middle- income
	2010	2015	group 2015
Economic and social context	2010	2010	2010
Population (millions)	5	6	2,927
Urban population (% of total)	35	36	39
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	5.4
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)	C	С	
Mobile telephone service	C C	C 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)	7.6	7.0	
Telecommunications investment (% of revenue)	18.6	3.5	
	10.0	0.0	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	9.2	7.1	3.5
Mobile-cellular telephone subscriptions (per 100 people)	98.9	132.8	90.5
Fixed-broadband subscriptions (per 100 people)	0.4	3.7	1.9
Households with a computer (%)	6.1 ^a	19.5	19.3
Households with Internet access at home (%)	2.2ª	16.5	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	6.9	16.0	7.5
Domestic mobile traffic (minutes/subscription/month)	78.7	252.4	152.0
Individuals using the Internet (%)	16.3ª	30.24	28.6
Quality			
Population covered by at least a 3G mobile network (%)	32	59	
International Internet bandwidth (bit/s per Internet user)	1,426	7,357	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	2.9	3.2	6.9
Fixed-broadband sub-basket (\$ a month)	48.1	8.9	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.1	4.7	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) $% \left(\left({\left({\left({\left({\left({\left({\left({\left({\left({$	16.3	3.1	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)	0.32	0.28	0.26
Secure Internet servers (per million people)	1.1	11.4	7.4

Lao PDR

East Asia & Pacific

Lower middle income

			Lower	
	Country data		middle- income	
-	2010	2015	group 2015	
Economic and social context				
Population (millions)	6	7	2,927	
Urban population (% of total)	33	39	39	
GNI per capita, World Bank Atlas method (\$)	1,000	1,730	2,035	
GDP growth, 2005-10 and 2010-15 (avg. annual %)	7.9	7.9	5.4	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	73 62	80 63	 68	
Sector structure 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	Р			
Internet service	Р	М		
Foreign ownership (not allowed, restricted, allowed)	R	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	С		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	1.9	3.2		
Telecommunications investment (% of revenue)	20.9	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 0.1	53.1 0.5	90.5 1.9	
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	6.9ª	11.4		
Households with a compact (%) Households with Internet access at home (%)	3.4ª	11.4		
lleade				
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	18.2	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	

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Latvia

Europe & Central Asia

High income

	Count	Country data	
	2010	2015	group 2015
Economic and social context Population (millions) Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	2 68 12,600	2 67 14,900	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 (%)	-1.2 100 90	3.4 100 93	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	Yes Mixed P C	Yes Mixed P C	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	A A	A A	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.6 25.9	2.2 26.4	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 (%)	25.5 ^a 110.3 ^a 20.8 62.8 59.8	127.0 25.1 76.1	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 (%)	 68.4	 222.2 79.2	 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 33,559	 111,881	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)	12.4 12.8 9.1	4.4 12.1 6.6 7.8	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)	5.8 6.4 20.3		9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.42 185.0	0.70 456.4	0.67 1,194.6

Lebanon

Middle East & North Africa

Upper middle income

			Upper middle-
	Countr 2010	y data 2015	income group 2015
Economic and social context	2010	2010	2010
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	94	
Gross primary, secondary, and tertiary school enrollment (%)	77	70	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)	М	М	
International gateway(s) Mobile telephone service	M	M	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access	10.0	10.0	17.0
Fixed-telephone subscriptions (per 100 people)	19.3 66.0	19.2 87.1	17.3 105.1
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	7.6	22.8	
Households with a computer (%)	61.5ª	81.04	
Households with Internet access at home (%)	50.7ª	69.0ª	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	44.4		2.3
Domestic mobile traffic (minutes/subscription/month)	189.4		
Individuals using the Internet (%)	43.7ª	74.04	52.1
Quality	0	0.02	
Population covered by at least a 3G mobile network (%)	0	96	
International Internet bandwidth (bit/s per Internet user)	1,318	27,275	20,098
Affordability			e -
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 20.9	7.7 11.1
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		20.9	11.1
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			
Online service index (0-1, 1=highest presence)	0.27	0.35	0.37
Secure Internet servers (per million people)	27.9	48.2	34.7

Lesotho

Sub-Saharan Africa

Lower middle income

			Lower middle-	
	Country data		income group	
	2010	2015	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 65	79 63	 68	
Gross primary, secondary, and tertiary school enrollment (%)	00	03	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	Р		
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)	No	No		
Sector efficiency and capacity				
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)	0.0	0.1	1.9	
Households with a computer (%)	5.0ª	7.5ª	19.3	
Households with Internet access at home (%)	2.5ª	11.5ª	24.3	
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	152.0	
Individuals using the Internet (%)	3.9ª	16.1ª		
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	
	0.0			

Liberia

Sub-Saharan Africa

Low income

			Low- income
	Country 2010	/ data	group 2015
Economic and social context	2010	2010	2010
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) Gross primary, secondary, and tertiary school enrollment (%)	43 	48	 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	С	С	
Foreign ownership (not allowed, restricted, allowed)	No		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	С	
Sector efficiency and capacity	0.1		
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	0.1 23.1		
	23.1		
Sector performance			
Access	0.1	0.0	0.0
Fixed-telephone subscriptions (per 100 people)	0.1 39.7	0.2 81.1	0.9 60.0
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	0.0	0.2	0.3
Households with a computer (%)	1.1ª	2.4ª	
Households with Internet access at home (%)	0.9ª	2.7ª	
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	9.5
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)		14.1	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	0.00	0.00	0.11
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

			Upper middle-	
	Country 2010	y data 2015	income group 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 Internet service	M	М		
Foreign ownership (not allowed, restricted, allowed)				
Reg. treatment of VoIP (banned, closed, no framework, allowed)		В		
Sector officiancy and conceity				
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 ² 20.4 ²		
Usage				
Int'l. voice traffic, total (minutes/subscription/month)			2.3 173.1	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 14.0ª	 19.0ª		
-				
Quality Population covered by at least a 3G mobile network (%)			69	
International Internet bandwidth (bit/s per Internet user)	 11,825		26,098	
	,	,	-,	
Affordability				
Mobile-cellular sub-basket (\$ a month)		6.4	8.5	
Fixed-broadband sub-basket (\$ a month)		21.7	15.5 7.7	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	41.2 11.9	36.2 10.9	11.1	
			15 7	
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	 3.6		15.7 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	

Liechtenstein

Europe & Central Asia

	Count	Country data	
	2010	2015	group 2015
Economic and social context Population (millions)	0.04	0.04	1,187
Urban population (% of total)	14	14	81
GNI per capita, World Bank Atlas method (\$)	115,530		41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.0		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	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)		0	
International gateway(s)	M	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)			
Sector efficiency and capacity			0.5
Telecommunications revenue (% of GDP)		 45.2	2.5 18.8
Telecommunications investment (% of revenue)		40.2	10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	54.3	45.9	41.2
Mobile-cellular telephone subscriptions (per 100 people)	98.3	108.8	124.5
Fixed-broadband subscriptions (per 100 people)	42.2	42.7	31.0 83.2
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)	11.6	13.1	195.9
Individuals using the Internet (%)	80.04	96.6ª	81.0
Quality	0.0	99	00
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	98 6,022		99 134,761
	0,022		134,701
Affordability		00.4	
Mobile-cellular sub-basket (\$ a month)		30.1 35.3	14.2 25.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			25.2 10.4
Mobile-b'band, postpaid nandset based, soo Mb (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 35.9	 30.1	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	0.52	0.51	0.67
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)		10,231.5	0.67
סכנעים התפווופג סבו עבוס (אבו התוווטוו אבטאוב)	5,155.0	10,201.0	1,134.0

Lithuania

Europe & Central Asia

	Country data		High- income
	2010	2015	group 2015
Economic and social context Population (millions)	3	3	1,187
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	67 12,430 0.7	67 15,000 3.6	81 41,366 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 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	C A No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	NU	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.1 15.8	1.3 17.1	2.5 18.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	24.6 159.4	139.5	41.2 124.5
Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	22.1 59.2 60.6	27.8 67.6 68.3	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 (%)	5.4 115.4 62.1		 195.9 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	3.2	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)	10.3 22.3	12.8 2.5 4.4	25.2 10.4 14.4
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	2.7 4.1	4.1	9.5 11.2
ICT service exports (% of total service exports)	9.7	12.4	32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.48 188.6	0.76 243.6	0.67 1,194.6

Luxembourg

Europe & Central Asia

	Country data		High- income group
	2010	2015	2015
Economic and social context Population (millions) Urban population (% of total)	0.51 89	0.57 90	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)	79,520 1.9	77,000 2.9 	41,366 1.5
Gross primary, secondary, and tertiary school enrollment (%)	78		95
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Public	Yes Public	
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)	1.3 18.6	1.0 43.2	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 (%)	53.6 143.1 33.2 90.2 90.3		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 (%)	69.1 78.9 90.6	59.2 82.6 97.3	 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	90 2,521,959	99 7,186,378	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)	25.8 38.1 	22.8 32.7 39.9 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)	2.9 4.9 17.3	2.0 4.0 21.0	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.38 1,412.4	0.62 2,913.9	0.67 1,194.6

Macao SAR, China

East Asia & Pacific

Groups group 2010 2015 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 GOP growth, 2005-10 and 2010-15 (agg, annual %) 9.7 4.2 1.5 Adut literacy rate (% ages 15 and older) 96 96 95 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Internet service Reg. treatment of VolP (banned, closed, no framework, allowed) No A Sector pefformance Access Nobile -cellular telephone subscriptions (per 100 people) 21.5 56.2 77.6 81.0 <th></th> <th>Count</th> <th colspan="2">Country data</th>		Count	Country data	
Population (millions) 0.53 0.59 1,187 Urban population (% of total) 100 100 81 GNI per capital, 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 Status of main fixed-line telephone operator Public Level of competition (competition, partial comp., monopoly) Internet service Foreign ownership (not allowed, restricted, allowed) Telecommunications revenue (% of GDP) 1.8 1.4 2.5 Telecommunications investment (% of revenue) 10.2 11.5 18.8 Sector performance Access		2010	2015	
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 Sector structure . . . Status of main fixed-line telephone operator Level of competition, competition, partial comp., monopoly) Internet service Foreign ownership (not allowed, restricted, allowed) Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) No A . . .	Economic and social context			
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 95 Sector structure Separate telecommunications/ICT regulator 95 Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Public Level of competition (competition, partial comp., monopoly) Internet service Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector performance Access Fixed-tradehone subscriptions (per 100 people) 21.5 25.0 412.5 Telecommunications investment (% of GDP) 1.8 1.4 2.5 Fixed-telephone subscriptions (per 100 people) 24.7 29.1	Population (millions)			
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 95 Sector structure 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) Fleecommunications revenue (% of GDP) 1.8 1.4 2.5 Telecommunications investment (% of revenue) 10.2 11.5 18.8 Sector efficiency and capacity Fixed-telephone subscriptions (per 100 people) 21.5 25.0 41.2 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Adult literacy rate (% ages 15 and older) 96 96 Gross primary, secondary, and tertiary school enrollment (%) 95 Sector structure 95 Sector structure 95 Sector structure Status of main fixed-line telephone operator International gateway(s) Internet service Reg. treatment of VoIP (banned, closed, no framework, allowed) No A 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 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0		'	,	,
Gross primary, secondary, and tertiary school enrollment (%) . . .95 Sector structure Separate telecommunications/ICT regulator . . . Status of main fixed-line telephone operator Mobile telephone service Internet service Reg. treatment of VoIP (banned, closed, no framework, allowed) No A . . . 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) 24.7 29.1 31.0 Households with a computer (%) 83.0 79.0 83.2 Households with a computer (%) 75.5 86.3 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 35.0 27.8 .				
Separate telecommunications/ICT regulator 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) No A Sector efficiency and capacity Telecommunications revenue (% of GDP) 1.8 1.4 2.5 Telecommunications revenue (% of GDP) 1.8 1.4 2.5 Telecommunications revenue (% of GPP) 1.8 1.4 2.5 Telecommunications revenue (% of GPP) 1.8 1.4 2.5 Telecommunications investment (% of revenue) 10.2 11.5 18.8 Sector performance Access 1.2 31.0 Households with a computer (%) 83.0 79.0 83.2 Households with Internet access at home (%) 75.5 86.3 85.0 Usage Int'. voice traffic, total (minutes/subscription/month) 195.9				
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) No A 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) 209.9 324.4 124.5 Fixed-broadband subscriptions (per 100 people) 24.7 29.1 31.0 Households with a computer (%) 83.0 79.0 83.2 Households with Internet access at home (%) 75.5 86.3 85.0 Usage Int'. voice traffic, total (minutes/subscription/month) </td <td>Sector structure</td> <td></td> <td></td> <td></td>	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Foreign ownership (not allowed, restricted, allowed) No Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Itercommunications revenue (% of GDP) 1.8 1.4 2.5 Telecommunications revenue (% of GDP) 1.8 1.4 2.5 Telecommunications investment (% of revenue) 10.2 11.5 18.8 Sector performance Access Access 11.5 18.8 Fixed-telephone subscriptions (per 100 people) 24.7 29.1 31.0 Households with a computer (%) 83.0 79.0 83.2 Households with a computer (%) 83.0 79.0 83.2 Int'l. voice traffic, total (minutes/subscription/month) 35.0 27.8 Domestic mobile traffic (minutes/subscription/month) 195.9 Individuals using the Internet (%) 55.2 77.6 81.0 Quality Population covered by at least a 3G mobile network (%) 100 100 99				
International gateway(s)			Public	
Mobile telephone serviceInternet serviceForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityTelecommunications revenue (% of GDP)1.81.42.5Telecommunications investment (% of revenue)10.211.518.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)21.5Sized-telephone subscriptions (per 100 people)24.7Mobile-cellular telephone subscriptions (per 100 people)24.7Pixed-broadband subscriptions (per 100 people)24.7Households with a computer (%)83.0Households with a computer (%)83.0Households with Internet access at home (%)75.586.385.0UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Mobile-cellular sub-basket (\$ a month)5.75.714.2Fixed-broadband sub-basket (\$ a month)37.343.614.4Mobile-cellular sub-basket (\$ a month)37.343.614.4Fixed-broadband sub-basket (\$ a month)37.343.614.4CT goods exports (% of total goods exports)4.6<				
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Foreign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityTelecommunications revenue (% of GDP)1.81.42.5Telecommunications investment (% of revenue)10.211.518.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)20.9.9324.4124.5Fixed-broadband subscriptions (per 100 people)24.729.131.0Households with a computer (%)83.079.083.2Households with a computer (%)83.079.083.2Households with Internet access at home (%)75.586.385.0UsageInt'l. voice traffic, total (minutes/subscription/month)195.9Individuals using the Internet (%)55.277.681.0QualityPopulation covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)32,196111,931134,761AffordabilityMobile-cellular sub-basket (\$ a month)5.75.714.2Nobile-band, prepaid handset-based, 500 MB (\$ a month)37.622.310.4Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.343.614.4TradeICT goods exports (% of total goods exports)0.90.532.0CT goods imports (% of total goods imports) </td <td></td> <td></td> <td></td> <td></td>				
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Telecommunications revenue (% of GDP) 1.8 1.4 2.5 Telecommunications investment (% of revenue) 10.2 11.5 18.8 Sector performance Access 10.2 11.5 18.8 Fixed-telephone subscriptions (per 100 people) 31.5 25.0 41.2 Mobile-cellular telephone subscriptions (per 100 people) 24.7 29.1 31.0 Households with a computer (%) 83.0 79.0 83.2 Households with Internet access at home (%) 75.5 86.3 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 35.0 27.8 Domestic mobile traffic (minutes/subscription/month) 195.9 Individuals using the Internet (%) 55.2 77.6 81.0 Quality Population covered by at least a 3G mobile network (%) 100 100 99 International Internet bandwidth (bit/s per Internet user) 32,196 111.931 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 5.7 5.7 14.2 Fixed-broadband su				
Telecommunications investment (% of revenue) 10.2 11.5 18.8 Sector performance Access 5 5 5 5 5 5 4 12 12.5 12.8 7 7 12.5 12.8 7 7 7 12.5 12.8 7 7 7 12.5 12.8 7 7 12.5 12.8 7 7 12.4 12.4 7 12.1 31.0 7 7 7 13.0 7 9 83.0 79.0 83.2 85.0 7 5 86.3 85.0 7 86.3 85.0 7 7 8 1.0 7 5 86.3 85.0 7 7 8 1.0 7 5 86.3 85.0 7 7 8 1.0 7 5 8 8 1.0 7 7 8 1.0 7 7 6 8 1.0 10 10 10 10 10				
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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 (%) 83.0 79.0 83.2 Households with Internet access at home (%) 75.5 86.3 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 35.0 27.8 Domestic mobile traffic (minutes/subscription/month) 195.9 Individuals using the Internet (%) 55.2 77.6 81.0 Quality Population covered by at least a 3G mobile network (%) 100 100 99 International Internet bandwidth (bit/s per Internet user) 32,196 111,931 134,761 Affordability Mobile-cellular sub-basket (\$ a month) 5.7 5.7 14.2 Fixed-broadband sub-basket (\$ a month) 37.6 22.3 10.4 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 37.6 22.3 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 37.3 43.6 14.4	-			
Fixed-broadband subscriptions (per 100 people)24.729.131.0Households with a computer (%)83.079.083.2Households with Internet access at home (%)75.586.385.0UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)195.9Individuals using the Internet (%)55.277.681.0QualityPopulation covered by at least a 3G mobile network (%)International Internet bandwidth (bit/s per Internet user)32,196111,93132,196111,931134,761AffordabilityMobile-cellular sub-basket (\$ a month)5.75.714.2Fixed-broadband sub-basket (\$ a month)37.622.310.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)37.343.614.4TradeICT goods exports (% of total goods exports)12.612.411.2ICT goods imports (% of total goods exports)0.90.532.0Applications0.90.532.0Online service index (0-1, 1=highest presence)0.67	Fixed-telephone subscriptions (per 100 people)	31.5	25.0	41.2
Households with a computer (%)83.079.083.2Households with Internet access at home (%)75.586.385.0Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)35.027.8Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)55.277.681.0Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)10010099Affordability Mobile-cellular sub-basket (\$ a month)5.75.714.2Fixed-broadband sub-basket (\$ a month)17.217.325.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.622.310.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)37.343.614.4Trade ICT goods imports (% of total goods exports)4.612.29.5ICT goods imports (% of total goods imports)0.90.532.0Applications Online service index (0-1, 1=highest presence)0.67				
Households with Internet access at home (%)75.586.385.0Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)35.027.8Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)35.027.8Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)10010099Affordability Nobile-cellular sub-basket (\$ a month)5.75.714.2Fixed-broadband sub-basket (\$ a month)5.75.714.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.622.310.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)37.343.614.4Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)12.612.411.2ICT service exports (% of total service exports)0.90.532.0Applications Online service index (0-1, 1=highest presence)0.67				
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Int1. voice traffic, total (minutes/subscription/month)35.027.8Domestic mobile traffic (minutes/subscription/month)195.9Individuals using the Internet (%)55.277.681.0QualityPopulation covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)32,196111.931134,761AffordabilityMobile-cellular sub-basket (\$ a month)5.75.714.2Fixed-broadband sub-basket (\$ a month)17.217.325.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.622.310.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)37.343.614.4TradeICT goods exports (% of total goods exports)12.612.29.5ICT goods imports (% of total goods imports)12.612.411.2ICT service exports (% of total service exports)0.90.532.0Applications0.90.532.0	Housenolds with internet access at home (%)	15.5	80.3	85.0
Domestic mobile traffic (minutes/subscription/month)195.9Individuals using the Internet (%)55.277.681.0QualityPopulation covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)32,196111,931134,761Affordability5.75.714.2Mobile-cellular sub-basket (\$ a month)5.75.714.2Fixed-broadband sub-basket (\$ a month)17.217.325.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.622.310.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)37.343.614.4TradeICT goods exports (% of total goods exports)12.612.29.5ICT goods imports (% of total goods imports)12.612.411.2ICT service exports (% of total service exports)0.90.532.0Applications0.90.532.0		35.0	27.8	
Individuals using the Internet (%)55.277.681.0QualityPopulation covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)10010099Affordability Mobile-cellular sub-basket (\$ a month)5.75.714.2Fixed-broadband sub-basket (\$ a month)5.75.714.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.622.310.4Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)37.343.614.4Trade ICT goods exports (% of total goods exports)4.612.29.5ICT goods imports (% of total goods imports)12.612.411.2ICT service exports (% of total service exports)0.90.532.0Applications Online service index (0-1, 1=highest presence)0.67				195.9
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Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) 100 100 99 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) 37.6 22.3 10.4 Mobile-b'band, prepaid handset-based, 1 GB (\$ a month) 37.3 43.6 14.4 Trade ICT goods exports (% of total goods exports) 4.6 12.2 9.5 ICT goods imports (% of total goods imports) 12.6 12.4 11.2 ICT service exports (% of total service exports) 0.9 0.5 32.0 Applications 0.9 0.5 32.0	Quality			
International Internet bandwidth (bit/s per Internet user) 32,196 111,931 134,761 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) 37.6 22.3 10.4 Mobile-b'band, prepaid computer-based, 1 GB (\$ a month) 37.3 43.6 14.4 Trade ICT goods exports (% of total goods exports) 12.6 12.2 9.5 ICT goods imports (% of total goods imports) 12.6 12.4 11.2 ICT service exports (% of total service exports) 0.9 0.5 32.0 Applications 0.9 0.5 32.0		100	100	99
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) 37.6 22.3 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 37.3 43.6 14.4 Trade ICT goods exports (% of total goods exports) 4.6 12.2 9.5 ICT goods imports (% of total goods imports) 12.6 12.4 11.2 ICT service exports (% of total service exports) 0.9 0.5 32.0 Applications 0.9 0.5 32.0		32,196	111,931	134,761
Fixed-broadband sub-basket (\$ a month) 17.2 17.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 37.6 22.3 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 37.3 43.6 14.4 Trade ICT goods exports (% of total goods exports) 4.6 12.2 9.5 ICT goods imports (% of total goods imports) 12.6 12.4 11.2 ICT service exports (% of total service exports) 0.9 0.5 32.0 Applications 0.67	Affordability			
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.622.310.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)37.343.614.4Trade ICT goods exports (% of total goods exports)4.612.29.5ICT goods imports (% of total goods imports)12.612.411.2ICT service exports (% of total service exports)0.90.532.0Applications Online service index (0-1, 1=highest presence)0.67				
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)37.343.614.4Trade ICT goods exports (% of total goods exports)4.612.29.5ICT goods imports (% of total goods imports)12.612.411.2ICT service exports (% of total service exports)0.90.532.0Applications Online service index (0-1, 1=highest presence)0.67				
Trade ICT goods exports (% of total goods exports) 4.6 12.2 9.5 ICT goods imports (% of total goods imports) 12.6 12.4 11.2 ICT service exports (% of total service exports) 0.9 0.5 32.0 Applications 0.11-highest presence) 0.67				
ICT goods exports (% of total goods exports) 4.6 12.2 9.5 ICT goods imports (% of total goods imports) 12.6 12.4 11.2 ICT service exports (% of total service exports) 0.9 0.5 32.0 Applications 0.67	Mobile-b band, postpaid computer-based, 1 GB (\$ a month)	37.3	43.0	14.4
ICT goods imports (% of total goods imports) 12.6 12.4 11.2 ICT service exports (% of total service exports) 0.9 0.5 32.0 Applications 0.67		4.0	10.0	0.5
ICT service exports (% of total service exports) 0.9 0.5 32.0 Applications 0.67				
Online service index (0-1, 1=highest presence) 0.67				
Online service index (0-1, 1=highest presence) 0.67	Annlications			
				0.67
		213.2	466.3	1,194.6

Macedonia, FYR

Europe	&	Central	Asia

Upper middle income

			Upper	
	Country data		middle- income	
	2010	2015	group 2015	
Economic and social context				
Population (millions)	2	2	2,594	
Urban population (% of total)	57	57	64	
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	4,720 4.0	5,140 2.3	8,186 4.5	
Adult literacy rate (% ages 15 and older)	+.u 	98		
Gross primary, secondary, and tertiary school enrollment (%)	71		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	C		
Internet service	C	C		
Foreign ownership (not allowed, restricted, allowed)				
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	А		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	4.7	3.8	2.1	
Telecommunications investment (% of revenue)	14.0	22.2	18.8	
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)	19.7	17.7	17.3	
Mobile-cellular telephone subscriptions (per 100 people)	102.4	105.4		
Fixed-broadband subscriptions (per 100 people)	12.3	17.2	15.4	
Households with a computer (%)	53.6	68.4	48.7	
Households with Internet access at home (%)	46.1	69.4	52.2	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	9.0	7.8 186.3		
Domestic mobile traffic (minutes/subscription/month)	102.6 51.9	186.3 70.4	52.1	
Individuals using the Internet (%)	51.9	70.4	52.1	
Quality Population covered by at least a 3G mobile network (%)	67	98	69	
International Internet bandwidth (bit/s per Internet user)	16,498	53,890		
Affordability				
Mobile-cellular sub-basket (\$ a month)	23.4	10.6	8.5	
Fixed-broadband sub-basket (\$ a month)	12.8	10.8	15.5	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	6.2	5.4		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.2	5.4	11.1	
Trade				
ICT goods exports (% of total goods exports)	0.3	0.4 3 0		
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.8 29.8	3.9 22.3		
Annilianationa				
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	
v · · · · · · · · · · · · · · · · · · ·				

Madagascar

Sub-Saharan Africa

Low income

	Country data		Low- income
-	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	2.6	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	64 66	65 	 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)			
Mobile telephone service	С	С	
Internet service	C R	C R	
Foreign ownership (not allowed, restricted, allowed)	A	к С	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	U	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.5	3.2	
Telecommunications investment (% of revenue)	29.0	19.4	
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 (%)	0.7 36.6 0.0 1.4 1.3ª	1.0 46.0 0.1 5.3ª 5.8ª	
Usage Int'I. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	1.7 3.3 1.7ª	1.0 2.4 4.2ª	 48.9 9.5
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 728	 12,420	51 <i>4,24</i> 5
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)	15.4 90.6 11.6 21.0	15.2 50.8 10.2 15.2	9.4 33.6 8.0 10.8
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	0.2 3.1 22.1	0.1 2.5 15.2	 3.4
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.17 0.5	0.24 1.7	0.11 1.5
Malawi

Sub-Saharan Africa

Low income

	Country	Country data		i Country data		Country data		Country data	Low- income
	2010	2015	group 2015						
Economic and social context									
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) Gross primary, secondary, and tertiary school enrollment (%)	61 68	66	 60						
Sector structure	Vaa	Vee							
Separate telecommunications/ICT regulator	Yes Mixed	Yes Mixed							
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	wixeu	witkeu							
International gateway(s)	С	С							
Mobile telephone service	P	C							
Internet service	Р	C							
Foreign ownership (not allowed, restricted, allowed)	R	R							
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	В							
Sector efficiency and capacity									
Telecommunications revenue (% of GDP)	3.0	2.9							
Telecommunications investment (% of revenue)									
Sector performance									
Access									
Fixed-telephone subscriptions (per 100 people)	1.0	0.3	0.9						
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	4.8						
Households with Internet access at home (%)	5.0ª	9.1ª	7.1						
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						

Malaysia

East Asia & Pacific

Upper middle income

			Upper middle-
	Countr	y data 2015	income group 2015
	2010	2015	2013
Economic and social context	00	20	0.504
Population (millions)	28 71	30 75	2,594 64
Urban population (% of total)	8,280	10,570	8,186
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.1	5.3	4.5
Adult literacy rate (% ages 15 and older)	93	95	4.5
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)	A	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.7	3.8	2.1
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	143.9	105.1
Fixed-broadband subscriptions (per 100 people)	7.4	9.0	15.4
Households with a computer (%)	61.8	67.6	48.7
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	81	92	69
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	11,495	34,119	26,098
A Standah Iliday			
Affordability Mobile-cellular sub-basket (\$ a month)	8.8	5.2	8.5
Fixed-broadband sub-basket (\$ a month)	20.5	10.3	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	2010	8.1	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.5	12.2	11.1
Trade			
ICT goods exports (% of total goods exports)	34.0	28.7	15.7
ICT goods imports (% of total goods imports)	29.8	23.1	14.4
ICT service exports (% of total service exports)	20.2	23.7	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.63	0.68	0.37
Secure Internet servers (per million people)	41.9	103.8	34.7

Maldives

South Asia

Upper middle income

			Upper middle-
	Count	Country data	
	2010	2015	2015
Economic and social context			
Population (millions)	0.37	0.41	2,594
Urban population (% of total)	40 5,360	46 6,670	64 8,186
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	5,360 7.9	4.7	0,100 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)			
Mobile telephone service	 P	 P	
Internet service			
Foreign ownership (not allowed, restricted, allowed)	Α	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)) B	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	206.7	105.1
Fixed-broadband subscriptions (per 100 people)	4.8	6.5	15.4
Households with a computer (%)	55.5	68.5	48.7
Households with Internet access at home (%)	23.5	49.6	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	32.7	33.9	2.3
Domestic mobile traffic (minutes/subscription/month)	209.3 26.5	209.5 54.5	173.1 52.1
Individuals using the Internet (%)	20.5	54.5	JZ.1
Quality Population covered by at least a 3G mobile network (%)	57	100ª	69
International Internet bandwidth (bit/s per Internet user)	33,447	88,008	26,098
	,	,	
Affordability	6.0	C 4	0.5
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	6.8 9.3	6.1 20.7	8.5 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			
ICT goods exports (% of total goods exports)			15.7
ICT goods imports (% of total goods imports)	6.5	4.4	14.4
ICT service exports (% of total service exports)			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	/ data	Low- income
	2010	2015	group 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)			
International gateway(s)	Р	Р	
Mobile telephone service	Р	Р	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A B	A B	
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) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	0.8 53.2 0.1 1.8 ^a 1.2 ^a	1.0 139.6 0.0 3.3 8.2	0.9 60.0 0.3 4.8 7.1
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	3.9 2.6 2.0ª	3.9 15.6 10.3ª	 48.9 9.5
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 2,771	 1,279	51 <i>4,24</i> 5
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)	16.9 50.1 9.2 14.7	12.4 33.6 7.9 12.7	9.4 33.6 8.0 10.8
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	0.1 2.6 33.9	 42.5	 3.4
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.18 0.7	0.13 1.3	0.11 1.5

Malta

Middle East & North Africa

2010 2015 2015 Economic and social context Population (millions) 0.41 0.43 1,187 Urban population (% of total) 95 95 81 GNP er 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 enroliment (%) 83 79 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Private Level of competition, partial comp., monopoly) International gateway(s) C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.2 2.8 2.5 Telecommunications investment (% of revenue) 15.8 18.8 Sector efficiency and capacity To.		Country data		High- income group
Population (millions) 0.41 0.43 1,187 Urban population (% of total) 95 95 81 GNI per capita, World Bank Atlas method (\$) 20,000 21,000 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 2.2 1.7 1.5 Adut 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 Yes Status of main fixed-line telephone operator Mixed Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Mobile telephone service C C C C Internet service Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.2 2.8 2.5 Telecommunications investment (% of revenue) 107.3 129.3 124.5 Fixed-telephone subscriptions (per 100 people) 107.3 <		2010	2015	
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 Sector structure Mixed Private Level of competition, partial comp., monopoly) International gateway(s) 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) 3.2 2.8 2.5 Telecommunications investment (% of revenue) 15.8 18.8 Sector performance A A A Access Fixed-telephone subscriptions (per 100 people) 58.3 53.4 41.2 Mobile-cellula		0.41	0 //3	1 1 97
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 Yes Status of main fixed-line telephone operator Mixed Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Internet service C C C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.2 2.8 2.5 Telecommunications revenue (% of GDP) 3.2 2.8 3.10 Houle-cellular telephone subscriptions (per 100 people) 107.3 129.3 124.5 Fixed-tradehand subscriptions (per 100 people) 73.1 81.1 83.2				,
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 Yes Status of main fixed-line telephone operator Mixed Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C International gateway(s) C C C C Mobile telephone service C C C C Internet service C C C C Feector efficiency and capacity Telecommunications revenue (% of GDP) 3.2 2.8 2.5 Telecommunications revenue (% of GDP) 3.2 2.8 3.10 Mobile-cellular telephone subscriptions (per 100 people) 107.3 129.3 124.5 Fixed-broadband subscriptions (per 100 people) 107.3 183.1 83.2 Households with a computer (%) 70.4 81.9 85.0 Usage Int'L. voice traffic, total (minutes/subscription/month) 11.7 9.3 Individu		20,090	21,000	41,366
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) International gateway(s) 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) 3.2 2.8 2.5 Telecommunications revenue (% of GDP) 3.2 2.8 3.10 Mobile-cellular telephone subscriptions (per 100 people) 58.3 53.4 41.2 Mobile-cellular telephone subscriptions (per 100 people) 70.4 81.9 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 11.7 9.3 Households with a computer (%) .0 100 99 104////////////////////////////////////	GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.2	1.7	1.5
Sector structure Yes Yes Separate telecommunications/ICT regulator Yes Yes Level of competition (competition, partial comp., monopoly) International gateway(s) 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) 3.2 2.8 2.5 Telecommunications investment (% of revenue) 15.8 18.8 Sector performance A A A Access Fixed-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 Internet access at home (%) 70.4 81.9 85.0 Usage Int'. voice traffic, total (minutes/subscription/month) 11.7 9.3 Int'. voice traffic, total (minutes/subscription/month) 11.7 9.3 Domestic mobile t			• •	
Separate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedPrivateLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternational gateway(s)CCCMobile telephone serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)3.22.82.5Telecommunications revenue (% of GDP)3.22.82.5Telecommunications investment (% of revenue)15.818.8Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)58.353.441.2Mobile-cellular telephone subscriptions (per 100 people)20.637.831.0Households with a computer (%)70.481.985.0UsageInt'l. voice traffic, total (minutes/subscription/month)11.79.3Domestic mobile traffic (minutes/subscription/month)63.076.281.0QualityPopulation covered by at least a 3G mobile network (%)10099International Internet bandwidth (bit/s per Internet user)464,0991220,570134,761AffordabilityMobile-cellular sub-basket (\$ a month)18.226.125.2Mobile-cellular sub-basket (\$ a month)18.410.410.4Mo	Gross primary, secondary, and tertiary school enrollment (%)	83	79	95
Status of main fixed-line telephone operatorMixedPrivateLevel of competition (competition, partial comp., monopoly) International gateway(s)CCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityElecommunications revenue (% of GDP)3.22.82.5Telecommunications revenue (% of GDP)3.22.82.5Telecommunications investment (% of revenue)15.818.8Sector performanceAAAAccessFixed-broadband subscriptions (per 100 people)58.353.441.2Mobile-cellular telephone subscriptions (per 100 people)29.637.831.0Households with a computer (%)73.181.183.2Households with Internet access at home (%)70.481.985.0UsageIntil. voice traffic, total (minutes/subscription/month)11.79.3Domestic mobile traffic (minutes/subscription/month)11.79.31.0OgualityPopulation covered by at least a 3G mobile network (%)10099International Internet bandwidth (bit/s per Internet user)464.0991220.570134.761AffordabilityIternational internet based, 500 MB (\$ a month)25.713.310.4Mobile-cellular sub-basket (\$ a month)25.713.310.4	Sector structure			
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Applications 0.47 0.40 0.67				
Online service index (0-1, 1=highest presence) 0.47 0.40 0.67	ICT Service exports (% of total service exports)	19.1	25.8	32.0
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Secure Internet servers (per million people) 1,375.1 1,866.3 1,194.6				
	Secure Internet servers (per million people)	1,375.1	1,866.3	1,194.6

Marshall Islands

East Asia & Pacific	Upper m	iddle i	ncome		
	Countr	Country data		Country data	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	0.05	0.05	2,594		
Urban population (% of total)	71	73	64		
GNI per capita, World Bank Atlas method (\$)	3,720	4,390	8,186		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.7	1.4	4.5		
Adult literacy rate (% ages 15 and older)	98	98			
Gross primary, secondary, and tertiary school enrollment (%)			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)	M	M			
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)		A			
	a) D				
Sector efficiency and capacity			2.1		
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			18.8		
			10.0		
Sector performance					
Access		4 5	17.3		
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)		4.5 29.2	105.1		
Fixed-broadband subscriptions (per 100 people)		1.9	105.1		
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 (%)	7.0ª	19.3	52.1		
Overlife					
Quality Population covered by at least a 3G mobile network (%)			69		
International Internet bandwidth (bit/s per Internet user)	12,262	75,844	26,098		
Affordability					
Mobile-cellular sub-basket (\$ a month)	22.2	22.2	8.5		
Fixed-broadband sub-basket (\$ a month)	50.0	50.0	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					
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	0.11	0.37		
Secure Internet servers (per million people)	114.4	113.2	34.7		

Mauritania

Sub-Saharan Africa

Lower middle income

			Lower
	Country	data	middle- income
-	Country 2010	2015	group 2015
Economic and social context			
Population (millions)	4	4	2,927
Urban population (% of total)	57	60	39
GNI per capita, World Bank Atlas method (\$)	1,140	1,370	2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.9	5.3	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	46 46	52 50	 68
	40	50	08
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)	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	C	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.1 19.4		
Telecommunications investment (% of revenue)	19.4		
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	2.0	1.3	3.5
Mobile-cellular telephone subscriptions (per 100 people)	76.9	89.3	90.5
Fixed-broadband subscriptions (per 100 people)	0.2	0.2	1.9
Households with a computer (%)	3.0ª 1.6ª	4.7ª 15.6ª	
Households with Internet access at home (%)	1.04	15.05	24.5
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	5.2		7.5
Domestic mobile traffic (minutes/subscription/month)	58.7		152.0
Individuals using the Internet (%)	4.0ª	15.2ª	28.6
Quality			
Population covered by at least a 3G mobile network (%)			
International Internet bandwidth (bit/s per Internet user)	1,939	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	14.3
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	56.9	48.0
Annilastiana			
Applications Online service index (0-1, 1=highest presence)	0.09	0.05	0.26
Secure Internet servers (per million people)	1.9	2.7	7.4
	2.0		

Mauritius

Sub-Saharan Africa	Upper middle incon		
	Counti	'v data	Upper middle- income
	2010	2015	group 2015
Economic and social context	2020	2010	2020
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 78	91 83	 81
Gross primary, secondary, and tertiary school enrollment (%)	18	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	C	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	Α	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) A	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.4	2.4	2.1
Telecommunications investment (% of revenue)	55.5		18.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	31.5 96.8	30.3 140.6	105.1
Fixed-broadband subscriptions (per 100 people)	7.6	15.7	
Households with a computer (%) Households with Internet access at home (%)	37.7 29.0	57.0 60.0	48.7 52.2
	23.0	00.0	52.2
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	16.6 119.2 28.3	9.0 108.9 50.1	
Quality			
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 9,723	93 33,896	
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)	11.6 11.6	5.6 8.5	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.0	0.0	11.1
Trade	1.1	11.8	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	1.1 5.1	11.8 9.7	
ICT service exports (% of total service exports)	31.9	30.1	25.7
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.30 88.8	0.47 175.8	0.37 34.7



Latin America & Caribbean

Upper middle income

			Upper middle-
-	Countre 2010	ry data 2015	income group 2015
	2010	2015	2015
Economic and social context	119	127	2,594
Population (millions) Urban population (% of total)	78	79	2,394
GNI per capita, World Bank Atlas method (\$)	8,840	9,710	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.4	2.7	4.5
Adult literacy rate (% ages 15 and older)	93	95	
Gross primary, secondary, and tertiary school enrollment (%)	75	78	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	
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)	2.9	2.5	2.1
Telecommunications investment (% of revenue)	19.7	15.0	18.8
Sector performance			
Access	10.0	15.0	47.0
Fixed-telephone subscriptions (per 100 people)	16.9 77.5	15.9 85.3	
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	9.0	11.6	
Households with a computer (%)	29.8	44.9	
Households with Internet access at home (%)	22.2	39.2	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month)	91.6	114.8	
Individuals using the Internet (%)	31.1	57.4	52.1
Quality			
Population covered by at least a 3G mobile network (%)	 7 020	20.955	
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	
Fixed-broadband sub-basket (\$ a month)	17.3	22.0	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	17.9	14.9	
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	
ICT service exports (% of total service exports)			05.7
Applications			
	0.44	0.00	0.27
Online service index (0-1, 1=highest presence)	0.44	0.66	0.37

Micronesia, Fed. Sts.

East Asia & Pacific	ower middle incom		
	Countr	y data	Lower 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 %)	0.10 22 2,870 -0.6	0.10 22 3,200 -1.2	2,927 39 2,035 5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)			 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	No Public M M	No Public M M	
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowe	M <i>R</i> d) No	M A	
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 (%)	8.2 26.6 1.0 	6.5 30.3 3.1 	3.5 90.5 1.9 19.3 24.3
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 20.0ª	 31.5	7.5 152.0 28.6
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 1,930	15 9,117	 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)	9.1 40.0 	25.8 33.0 31.5 	6.9 14.3 5.8 10.0
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	 1.3 11.8	 1.9 9.6	5.7 7.6 48.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.13 38.6	0.19 19.3	0.26 7.4

Moldova

Europe & Central Asia

Lower middle income

			Lower middle-
	Count	ry data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	4	4	2,927
Urban population (% of total)	45	45	39
GNI per capita, World Bank Atlas method (\$)	1,820 2.9	2,220 4.1	2,035 5.4
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)		4.1 99	
Gross primary, secondary, and tertiary school enrollment (%)	 69	71	 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)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	6.0	4.1	
Telecommunications investment (% of revenue)	40.2	52.0	
Sector performance			
Access	32.5	35.0	3.5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	52.5 71.4	108.0	90.5
Fixed-broadband subscriptions (per 100 people)	7.6	100.0	1.9
Households with a computer (%)	37.0	46.44	
Households with Internet access at home (%)	34.7ª	49.04	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	20.7	13.1	7.5
Domestic mobile traffic (minutes/subscription/month)	115.5	122.7	152.0
Individuals using the Internet (%)	32.3ª	49.8	28.6
Quality			
Population covered by at least a 3G mobile network (%)	99	99	
International Internet bandwidth (bit/s per Internet user)	81,450	194,898	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.6	6.9	6.9
Fixed-broadband sub-basket (\$ a month)	12.2	9.4	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	8.3	2.2	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	8.3	4.3	10.0
Trade	0.7	0.2	5.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	0.7 3.9	0.2 3.1	5.7 7.6
ICT service exports (% of total service exports)	26.4	25.4	48.0
Applications Online service index (0-1, 1=highest presence)	0.30	0.53	0.26
Secure Internet servers (per million people)	13.5	61.6	7.4
	_0.0	01.0	

Monaco

Europe & Central Asia

High income

2010 2015 2015 Economic and social context Population (millions) 0.04 0.04 1.187 Urban population (% of total) 100 100 186,710 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 1.0.3		Counti	y data	High- income group
Population (millions) 0.04 0.04 1.187 Urban population (% of total) 100 100 81 GNI per capita, World Bank Atlas method (\$) 1087.70 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 10.3 Adult literacy rate (% ages 15 and older) Sector structure Separate telecommunications/ICT regulator No No Status of main fixed-line telephone operator Private Mixed Level of competition (competition, partial comp., monopoly) Internet service M M Internet service M M M Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 Telecommunications investment (% of revenue) 10.8 8 124.5 Fixed-telephone subscriptions (per 100 people) 116.5 128.1 41.2 Mobile-cellular telephones subscription/month) 124.6 <t< th=""><th></th><th>2010</th><th>2015</th><th></th></t<>		2010	2015	
Urban population (% of total) 100 100 81 GN1 per capita, World Bank Attas method (\$) 126,710	Economic and social context			
GNI per capita, World Bark Atlas method (\$) 186,710 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 10.3 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 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) M Mobile telephone service M M Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector performance Access Fixed-telephone subscriptions (per 100 people) 116.5 128.1 41.2 Mobile-cellular telephone subscriptions (per 100 people) 37.5 47.5 31.0 Households with a computer (%) 69.6a 74.9a 83.2 Households with laternet access at home (%) 67.1a 76.6a 85.0 Usage </td <td>Population (millions)</td> <td>0.04</td> <td></td> <td>1,187</td>	Population (millions)	0.04		1,187
GDP growth, 2005-10 and 2010-15 (avg. annual %) 10.3 1.5 Adult literacy rate (% ages 15 and older)	Urban population (% of total)		100	81
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) Sector structure Sector structure Private Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service M M M Internet service M M M Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Elecommunications revenue (% of GDP) Telecommunications revenue (% of GDP) 2.5 Telecommunications investment (% of revenue) 18.8 Sector performance Access 116.5 128.1 41.2 Mobile-cellular telephone subscriptions (per 100 people) 37.5 47.5 31.0 Households with a computer (%) 69.6 ^a 74.9 ^a 83.2 Households with Internet access at home (%) 67.1 ^a 76.6 ^a 85.0 Us		,		,
Gross primary, secondary, and tertiary school enrollment (%) .				
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 P Mobile telephone service M M M Internet service M M M Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) . . Sector efficiency and capacity Itercommunications revenue (% of GDP) . . . Telecommunications revenue (% of GDP) Sector performance Access Mobile-cellular telephone subscriptions (per 100 people) 116.5 128.1 41.2 .				
Status of main fixed-line telephone operator Private Mixed Level of competition, (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service M M M Internet service M M 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) Sector performance Access Mobile -cellular telephone subscriptions (per 100 people) 116.5 128.1 41.2 Mobile-cellular telephone subscriptions (per 100 people) 37.5 47.5 31.0 Households with a computer (%) 69.6ª 74.9ª 83.2 Households with Internet access at home (%) 67.1ª 76.6ª 85.0 Usage Inturnet service <td< td=""><td>Sector structure</td><td></td><td></td><td></td></td<>	Sector structure			
Level of competition (competition, partial comp., monopoly) P P International gateway(s) P P Mobile telephone service M M 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 revenue (% of revenue) . . . 18.8 Sector performance Access . . 18.8 124.5 Fixed-telephone subscriptions (per 100 people) 116.5 128.1 41.2 Mobile-cellular telephone subscriptions (per 100 people) 37.5 47.5 31.0 Households with a computer (%) 69.6ª 74.9ª 83.2 Households with Internet access at home (%) 67.1ª 76.6ª 85.0 Usage Individuals using the Internet (%) 75.0 93.4ª 81.0 . Quality Population covered by at least a 3G mobile network (%) 100 100 99 I	Separate telecommunications/ICT regulator	No	No	
International gateway(s)PPMobile telephone serviceMMInternet serviceMMForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)Sector efficiency and capacityElecommunications revenue (% of GDP)Telecommunications revenue (% of GDP)Sector performanceAAAccessFixed-telephone subscriptions (per 100 people)116.5128.141.2Mobile-cellular telephone subscriptions (per 100 people)37.547.531.0Households with a computer (%)69.6ª74.9ª83.2Households with internet access at home (%)67.1ª76.6ª85.0UsageInt'l. voice traffic, total (minutes/subscription/month)114.6Domestic mobile traffic (minutes/subscription/month)122.5137.7195.9Individuals using the Internet (%)75.093.4ª81.0QualityMobile-cellular sub-basket (\$ a month).47.04464.287Population covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)47.04464.287134.761AffordabilityMobile-cellular sub-basket (\$ a month)Itera-broad	Status of main fixed-line telephone operator	Private	Mixed	
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) . . Sector efficiency and capacity . . . Telecommunications revenue (% of GDP) . . . Sector performance Access . . . Fixed-telephone subscriptions (per 100 people) 116.5 128.1 41.2 Mobile-cellular telephone subscriptions (per 100 people) 37.5 47.5 31.0 Households with a computer (%) 69.6ª 74.9ª 83.2 Households with Internet access at home (%) 67.1ª 76.6ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 114.6 . . . Domestic mobile traffic (minutes/subscription/month) 122.5 137.7 195.9 . Individuals using the Internet (%) 75.0 93.4ª 81.0 Quality . . .				
Internet serviceMMForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)Sector efficiency and capacityTelecommunications revenue (% of GDP)2.5Telecommunications investment (% of revenue)18.8Sector performanceAccess18.8Sector performance18.8Sector performance18.8Sector performance14.5Access14.2Nobile-cellular telephone subscriptions (per 100 people)63.588.8124.5Fixed-broadband subscriptions (per 100 people)37.547.531.0Households with a computer (%)69.6ª74.9ª83.2Households with Internet access at home (%)67.1ª76.6ª85.0UsageInt'I. voice traffic, total (minutes/subscription/month)114.6Domestic mobile traffic (minutes/subscription/month)122.5137.7195.9Individuals using the Internet (%)75.093.4ª81.0Quality40.014.2Fixed-broadband sub-basket (\$ a month)40.014.2Fixed-broadband sub-basket (\$ a month)55.325.2Mobile-cellular sub-basket (\$ a month)55.3 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Foreign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)Sector efficiency and capacityTelecommunications revenue (% of GDP)Telecommunications investment (% of revenue)Sector performanceAccessFixed-telephone subscriptions (per 100 people)116.5128.1Mobile-cellular telephone subscriptions (per 100 people)63.588.8124.5Fixed-broadband subscriptions (per 100 people)37.547.5At 7.531.0Households with a computer (%)69.6°74.9°Nouseholds with internet access at home (%)67.1°76.6°75.093.4°81.0UsageInt'l. voice traffic, total (minutes/subscription/month)114.6Domestic mobile traffic (minutes/subscription/month)122.5137.7195.9Individuals using the Internet (%)75.093.4°QualityPopulation covered by at least a 3G mobile network (%)100100Population covered by at least a 3G mobile network (%)100100Mobile-cellular sub-basket (\$ a month)55.325.2Mobile-bband, prepaid handset-based, 500 MB (\$ a month)12.210.4Mobile-bband, postpaid computer-based, 1 GB (\$ a month)ICT goods exports (% of total goods exports)	•			
Reg. treatment of VoIP (banned, closed, no framework, allowed)Sector efficiency and capacityTelecommunications revenue (% of GDP)Telecommunications investment (% of revenue)Sector performanceAccessFixed-telephone subscriptions (per 100 people)116.5Fixed-telephone subscriptions (per 100 people)37.5AverageHouseholds with a computer (%)69.6°Households with a computer (%)69.6°T4.9°83.2Households with Internet access at home (%)67.1°T6.6°85.0UsageInt'l. voice traffic, total (minutes/subscription/month)114.6Domestic mobile traffic (minutes/subscription/month)122.5Individuals using the Internet (%)75.093.4°81.0QualityPopulation covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)47,04464,287134,761Affordability12.2Mobile-cellular sub-basket (\$ a month)12.2Ivide-broadband sub-basket (\$ a month)Ivide-broadband sub-basket (\$ a month) <t< td=""><td></td><td></td><td></td><td></td></t<>				
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 (%) 69.6° 74.9° 83.2 Households with Internet access at home (%) 67.1° 76.6° 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 114.6 Domestic mobile traffic (minutes/subscription/month) 114.6 Quality 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 55.3 25.2 Mobile-cellular sub-basket (\$ a month)	• • • • •			
Telecommunications revenue (% of GDP) 2.5 Telecommunications investment (% of revenue) 18.8 Sector performance Access 18.8 Fixed-telephone subscriptions (per 100 people) 116.5 128.1 41.2 Mobile-cellular telephone subscriptions (per 100 people) 37.5 47.5 31.0 Households with a computer (%) 69.6ª 74.9ª 83.2 Households with Internet access at home (%) 67.1ª 76.6ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 114.6 Domestic mobile traffic (minutes/subscription/month) 122.5 137.7 195.9 Individuals using the Internet (%) 75.0 93.4ª 81.0 Quality 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 14.2 14.4 Mobile-cellular sub-basket (\$ a month) 55.3 25.2 Mobile-b'band, prepaid handset-based)		
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 74.9ª 83.2 Households with Internet access at home (%) 67.1ª 76.6ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 114.6 Domestic mobile traffic (minutes/subscription/month) 122.5 137.7 195.9 Individuals using the Internet (%) 75.0 93.4ª 81.0 Quality 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 55.3 25.2 Mobile-cellular sub-basket (\$ a month) 55.3 25.2				25
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) 63.5 88.8 124.5 Fixed-broadband subscriptions (per 100 people) 37.5 47.5 31.0 Households with a computer (%) 69.6 ^a 74.9 ^a 83.2 Households with Internet access at home (%) 67.1 ^a 76.6 ^a 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 114.6 Domestic mobile traffic (minutes/subscription/month) 122.5 137.7 195.9 Individuals using the Internet (%) 75.0 93.4 ^a 81.0 Quality 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 55.3 25.2 Mobile-cellular sub-basket (\$ a month) 12.2 10.4 <				
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 74.9ª 83.2 Households with Internet access at home (%) 67.1ª 76.6ª 85.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 114.6 Domestic mobile traffic (minutes/subscription/month) 122.5 137.7 195.9 Individuals using the Internet (%) 75.0 93.4ª 81.0 Quality 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 55.3 25.2 Mobile-cellular sub-basket (\$ a month) 55.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 12.2 10.4 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 12.2 10.4	•			
Fixed-broadband subscriptions (per 100 people) 37.5 47.5 31.0 Households with a computer (%) 69.6ª 74.9ª 83.2 Households with Internet access at home (%) 67.1ª 76.6ª 85.0 Usage 11'1. voice traffic, total (minutes/subscription/month) 114.6 Domestic mobile traffic (minutes/subscription/month) 122.5 137.7 195.9 Individuals using the Internet (%) 75.0 93.4ª 81.0 Quality 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 14.2 Mobile-cellular sub-basket (\$ a month) 55.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 12.2 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 9.5 11.2 ICT goods exports (% of total goods exports) 11.2 ICT goods imports (% of total goods imports) 32.0 Applications		116.5	128.1	41.2
Households with a computer (%)69.6ª (74.9ª74.9ª (83.2) (83.2) (83.2)Households with Internet access at home (%)67.1ª (76.6ª76.6ª (85.0)Usage Int'l. voice traffic, total (minutes/subscription/month)114.6 (12.5) 		63.5	88.8	124.5
Households with Internet access at home (%)67.1ª76.6ª85.0Usage Int'. voice traffic, total (minutes/subscription/month)114.6Domestic mobile traffic (minutes/subscription/month)122.5137.7195.9Individuals using the Internet (%)75.093.4ª81.0Quality Population covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)47,04464,287134,761Affordability Nobile-cellular sub-basket (\$ a month)40.014.2Fixed-broadband sub-basket (\$ a month)55.325.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)12.210.4Mobile-b'band, prepaid computer-based, 1 GB (\$ a month)9.511.2ICT goods exports (% of total goods exports)9.5ICT goods imports (% of total goods exports)32.0Applications Online service index (0-1, 1=highest presence)0.140.220.67	Fixed-broadband subscriptions (per 100 people)	37.5		
Usage Int'l. voice traffic, total (minutes/subscription/month) 114.6 Domestic mobile traffic (minutes/subscription/month) 122.5 137.7 195.9 Individuals using the Internet (%) 75.0 93.4ª 81.0 Quality 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 14.2 Fixed-broadband sub-basket (\$ a month) 40.0 14.2 Fixed-broadband sub-basket (\$ a month) 55.3 25.2 Mobile-cb'band, prepaid handset-based, 500 MB (\$ a month) 12.2 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 12.2 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 9.5 107 93.3 14.4 Trade 10.2 ICT goods simports (% of total goods imports) 11.2 ICT service exports (% of total service expor				
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Domestic mobile traffic (minutes/subscription/month)122.5137.7195.9Individuals using the Internet (%)75.093.4ª81.0QualityPopulation covered by at least a 3G mobile network (%)10010099International Internet bandwidth (bit/s per Internet user)47,04464,287134,761Affordability40.014.2Fixed-broadband sub-basket (\$ a month)55.325.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)12.210.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)9.511.2ICT goods exports (% of total goods exports)9.511.2ICT goods imports (% of total goods imports)32.0Applications0.140.220.67	5			
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Quality 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 14.2 Fixed-broadband sub-basket (\$ a month) 55.3 25.2 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 12.2 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 12.2 10.4 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 9.5 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				
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 Mobile-cellular sub-basket (\$ a month) 40.0 14.2 Fixed-broadband sub-basket (\$ a month) 55.3 25.2 Mobile-broadband sub-basket (\$ a month) 55.3 25.2 Mobile-broadband sub-basket (\$ a month) 57.1 43.3 14.4 Mobile-broadband, prepaid handset-based, 500 MB (\$ a month) 9.5 107 90.3 14.2 Trade ICT goods exports (% of total goods exports) 9.5 11.2 ICT goods imports (% of total goods imports) .11.2 ICT service exports (% of total service exports) 32.0 Applications 32.0	individuals using the internet (%)	15.0	93.4	01.0
International Internet bandwidth (bit/s per Internet user)47,04464,287134,761Affordability Mobile-cellular sub-basket (\$ a month)40.014.2Fixed-broadband sub-basket (\$ a month)55.325.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)12.210.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)9.5ICT goods exports (% of total goods exports)9.5ICT goods imports (% of total goods imports)11.2ICT service exports (% of total service exports)32.0Applications Online service index (0-1, 1=highest presence)0.140.220.67		100	100	00
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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		 57.1		
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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				95
ICT service exports (% of total service exports) 32.0 Applications 0.14 0.22 0.67				
Online service index (0-1, 1=highest presence) 0.14 0.22 0.67				
Online service index (0-1, 1=highest presence) 0.14 0.22 0.67	Applications			
		0.14	0.22	0.67
	Secure Internet servers (per million people)	2,442.7	3,975.5	1,194.6

Mongolia

East Asia & Pacific

Lower middle income

			Lower middle- income
	Count 2010	ry data 2015	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 89	98 86	
Gross primary, secondary, and tertiary school enrollment (%)	09	00	68
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	Р		
International gateway(s) Mobile telephone service	P		
Internet service	r C		
Foreign ownership (not allowed, restricted, allowed)	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Contar officianay and consolty			
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) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	7.1 92.5 2.8 22.3	8.7 105.0 7.1 42.6	1.9
Households with Internet access at home (%)	7.7	24.5	24.3
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	4.5 121.6 10.2		7.5 152.0 28.6
Quality	50	95	
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)		159,595	 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)	3.6 8.5 10.3 8.8	6.6 5.6	
Trade			
ICT goods exports (% of total goods exports)		0.1	5.7
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	 10.2	3.9 22.5	
Applications Online service index (0-1, 1=highest presence)	0.56	0.61	0.26
	10.7	30.1	7.4

Montenegro

Europe & Central Asia

Upper middle income

			Upper middle-
	Count	ry data 2015	group
	2010	2015	2015
Economic and social context			
Population (millions)	0.62	0.62	2,594
Urban population (% of total)	63 6,890	64 7,240	64 8,186
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.3	1,240	4.5
Adult literacy rate (% ages 15 and older)	98	99	4.5
Gross primary, secondary, and tertiary school enrollment (%)	89		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		
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)	A	A	
Sector efficiency and capacity			0.1
Telecommunications revenue (% of GDP)		5.5	2.1 18.8
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	27.5ª	24.8	17.3
Mobile-cellular telephone subscriptions (per 100 people)	188.7	162.2	105.1
Fixed-broadband subscriptions (per 100 people)	100.1	18.1	15.4
Households with a computer (%)	38.0		
Households with Internet access at home (%)	35.9ª		
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month)		141.9	
Individuals using the Internet (%)	37.5ª	64.6	52.1
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			
Mobile-cellular sub-basket (\$ a month)	16.5	9.7	8.5
Fixed-broadband sub-basket (\$ a month)	18.4	15.3	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		13.2	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		7.2	11.1
Trade	0.0	0.0	45 7
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	0.04	0.50	0.07
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

			Lower middle-
	Countre 2010	y data 2015	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	,
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.9	3.8	
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	
Mobile telephone service	C C	C C	
Internet service	A	A	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		В	
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	
Mobile-cellular telephone subscriptions (per 100 people)	101.1	126.9 3.4	
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	1.6 34.2	54.8	
Households with Internet access at home (%)	25.5	66.5	
	20.0	00.0	21.0
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)	52.0	69.0 57.1	
Individuals using the Internet (%)	52.0	57.1	20.0
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	6.9
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	5.7
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			
	0.24	0.69	0.26
Online service index (0-1, 1=highest presence)	0.21	0.00	0.20

Mozambique

Sub-Saharan Africa

Low income

	Country	Country data		Country data		Country data	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)	51 61	59 59	 60				
Gross primary, secondary, and tertiary school enrollment (%)	01						
Sector structure	Vaa	Vaa					
Separate telecommunications/ICT regulator	Yes Mixed	Yes Mixed					
Status of main fixed-line telephone operator	wixed	wixed					
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)	R	A					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В					
Sector officiency and conscity							
Sector efficiency and capacity Telecommunications revenue (% of GDP)	5.6						
Telecommunications investment (% of revenue)	39.0						
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 (%)	0.4 30.1 0.1 4.9 ^a 2.4 ^a	0.3 74.2 0.1 6.1ª 13.2ª					
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	0.8						
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	14.8 4.2	 9.0ª	48.9 9.5				
individuals using the internet (%)	4.2	5.0-	5.5				
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) 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)	17.0 49.7 26.4 26.4	8.1 16.3 2.5 6.1	9.4 33.6 8.0 10.8				
Trade	0.1	0.0					
ICT goods exports (% of total goods exports)	0.1	0.0 4.0	 3.4				
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	1.8 19.7	4.0 6.3	3.4				
· · · · · · · · · · · · · · · · · · ·							
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.17 0.8	0.31 2.2	0.11 1.5				

Myanmar

East Asia & Pacific

Lower middle income

			Lower middle-
	Country	/ data 2015	income 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	5.4
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)		93	 68
			00
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	C	
Internet service	M	C	
Foreign ownership (not allowed, restricted, allowed)	Α	А	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	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	14.0ª	
Households with Internet access at home (%)	1.0 ^a	15.0ª	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 (%)	0.3	21.8ª	28.6
Quality			
Population covered by at least a 3G mobile network (%)		79	
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 19.8	 11.1	7.6 48.0
ICT service exports (% of total service exports)	13.0	11.1	40.0
Applications			
Online service index (0-1, 1=highest presence)	0.08	0.02	0.26
Secure Internet servers (per million people)	0.1	0.7	7.4

Namibia

Sub-Saharan Africa

Upper middle income

			Upper middle-
	Countr	y data 2015	income group 2015
	2010	2013	2015
Economic and social context	2	2	2,594
Population (millions) Urban population (% of total)	42	47	2,594
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, allowed)	No	А	
Sector efficiency and capacity	2.2	2.7	2.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.2 12.7	2.7 11.8	2.1 18.8
	12.7	11.0	10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	7.2	7.6	17.3
Mobile-cellular telephone subscriptions (per 100 people)	89.5	102.1	105.1
Fixed-broadband subscriptions (per 100 people)	0.4	1.7	15.4
Households with a computer (%)	11.5	17.7ª	
Households with Internet access at home (%)	7.0ª	24.5ª	52.2
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	22.3ª	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	0.5	0.9	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	0.5 3.6	0.9 3.0	15.7 14.4
ICT service exports (% of total service exports)	3.6 11.8	3.0 46.3	14.4 25.7
Applications	0.07	0.32	0.37
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	14.6	28.5	34.7
Secure internet servers (per million people)	14.0	20.0	34.7



East Asia & Pacific

	Countr	Country data	
	2010	2015	group 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 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 (%)	56		95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public		
Level of competition (competition, partial comp., monopoly)		С	
International gateway(s) 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 18.8
Telecommunications investment (% of revenue)			10.0
Sector performance			
Access			44.0
Fixed-telephone subscriptions (per 100 people)	0.0 61.8	0.0	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) 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	00	0.03	00
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	98 2.402	98ª	99 134.761
international internet bandwidth (bit/s per internet user)	2,402		134,701
Affordability		19.3	14.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		19.3 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
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

Nepal

South Asia

Low income

	Country	Country data		Country data İ	
	2010	2015	group 2015		
Economic and social context	2020	2020	2020		
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	4.4	5.4		
Adult literacy rate (% ages 15 and older)	60	65			
Gross primary, secondary, and tertiary school enrollment (%)	75	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	Р			
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)	С	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 (%)	4.2ª	8.9ª			
Households with Internet access at home (%)	2.1ª	6.3ª	7.1		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)			48.9		
Individuals using the Internet (%)	7.9	17.6ª	9.5		
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)	11.4	6.1	8.0		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		7.7	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		

²⁰¹⁷ The Little Data Book on Information and Communication Technology

Netherlands

Europe & Central Asia

	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 (\$)	17 87 53,530	90	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 (%)	1.1 101	0.4	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		
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 C A	C C A	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.0 14.8	1.9	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 (%)	43.5 115.4 38.1 92.0 90.9	123.5 41.7 96.2	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 (%)	 97.9 90.7		 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	99 154,312	99 242,326	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)	33.2 32.9 38.6 38.6	36.0 13.3	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)	12.5 14.5 34.3	12.9	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.68 2,276.7		0.67 1,194.6

New Caledonia

East Asia & Pacific

	Country	Country data		Country data		i Country data	
	2010	2015	group 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 %)			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 Internet service							
Foreign ownership (not allowed, restricted, allowed)							
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	В					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)			2.5				
Telecommunications investment (% of revenue)			18.8				
Sector performance							
Access	20.2	25.0	41.0				
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	29.3 89.6	35.0 93.5	41.2 124.5				
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				
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							
Online service index (0-1, 1=highest presence)			0.67				
Secure Internet servers (per million people)	100.0	476.2	1,194.6				

New Zealand

East Asia & Pacific

	Count	Country data		Country data i		Country data i	
	2010	2015	group 2015				
Economic and social context Population (millions) Urban population (% of total)	4 86	5 86	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)	29,340 0.8 	40,080 2.6 	41,366 1.5 				
Gross primary, secondary, and tertiary school enrollment (%)	108	105	95				
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Yes Private	Yes Private					
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)	2.4 31.3	2.1 32.7	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) Households with a computer (%) Households with Internet access at home (%)	43.0 107.8 25.0 79.5ª 76.8ª	121.8 31.5 82.3ª					
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 78.6 80.5ª		 195.9 81.0				
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	97 34,143	98 108,506	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)	47.2 36.1 24.3 40.5	13.2 45.3 13.2 21.6	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)	1.2 8.3 15.3	0.9 6.9 13.0	9.5 11.2 32.0				
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.64 1,495.4	<i>0.84</i> 1,298.6	0.67 1,194.6				

Nicaragua

Latin America & Caribbean

Lower middle income

			Lower middle-
	Countr	y data 2015	income group 2015
	2010	2013	2013
Economic and social context	6	G	2 0 2 7
Population (millions) Urban population (% of total)	57	6 59	2,927 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	2,000
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	Μ	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	Α	
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		F 7	0.5
Fixed-telephone subscriptions (per 100 people)	4.4	5.7 116.1	3.5 90.5
Mobile-cellular telephone subscriptions (per 100 people)	68.1 1.3	110.1	90.5 1.9
Fixed-broadband subscriptions (per 100 people)	1.5 8.2ª		
Households with a computer (%)	0.2ª 3.8ª	11.8ª 14.0ª	
Households with Internet access at home (%)	3.0"	14.0	24.5
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	 19.7ª	
Quality			
Population covered by at least a 3G mobile network (%)		75ª	·
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	<u>.</u>		
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	0.55		
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



Sub-Saharan Africa

Low income

Country later groi 2010 2015
Population (millions) 16 20 40 Urban population (% of total) 18 19 GNI per capita, World Bank Atlas method (\$) 360 390 60 GDP growth, 2005-10 and 2010-15 (avg. annual %) 5.0 6.5 Adult literacy rate (% ages 15 and older) 15 19 Gross primary, secondary, and tertiary school enrollment (%) 33 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) Mobile telephone service C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Yes Telecommunications revenue (% of GDP) 4.6
Urban population (% of total) 18 19 GNI per capita, World Bank Atlas method (\$) 360 390 GDP growth, 2005-10 and 2010-15 (avg. annual %) 5.0 6.5 Adult literacy rate (% ages 15 and older) 15 19 Gross primary, secondary, and tertiary school enrollment (%) 33 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) Mobile telephone service C C Internet service M M Foreign ownership (not allowed, restricted, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
GNI per capita, World Bank Atlas method (\$) 360 390 GDP growth, 2005-10 and 2010-15 (avg. annual %) 5.0 6.5 Adult literacy rate (% ages 15 and older) 15 19 Gross primary, secondary, and tertiary school enrollment (%) 33 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 C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
GDP growth, 2005-10 and 2010-15 (avg. annual %) 5.0 6.5 Adult literacy rate (% ages 15 and older) 15 19 Gross primary, secondary, and tertiary school enrollment (%) 33 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 C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
Adult literacy rate (% ages 15 and older) 15 19 Gross primary, secondary, and tertiary school enrollment (%) 33 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) Mobile telephone service C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity 16 Telecommunications revenue (% of GDP) 4.6
Gross primary, secondary, and tertiary school enrollment (%) 33 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) Mobile telephone service C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
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) Mobile telephone service C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
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) International gateway(s) Mobile telephone service C C Internet service M M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
Status of main fixed-line telephone operator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) International gateway(s) Mobile telephone service C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
International gateway(s) Mobile telephone service C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
Mobile telephone service C C C Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
Internet service M M Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) B B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
Reg. treatment of VoIP (banned, closed, no framework, allowed) B Sector efficiency and capacity Telecommunications revenue (% of GDP) 4.6
Telecommunications revenue (% of GDP) 4.6
Telecommunications revenue (% of GDP) 4.6
Sector performance
Access
Fixed-telephone subscriptions (per 100 people) 0.5 0.6
Mobile-cellular telephone subscriptions (per 100 people) 23.1 46.5 6 Fixed-broadband subscriptions (per 100 people) 0.0 0.1
Fixed-broadband subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) 1.2^a 2.7^a
Households with a computer (%) 1.2 2.1 Households with Internet access at home (%) 0.6a 2.6a
Usage
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 18,471.9
Individuals using the Internet (%) 0.8^{a} 2.2^{a}
Quality
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user) 1.440 2.688 4.2
International Internet bandwidth (bit/s per Internet user) 1,440 2,688 4,2
Affordability
Mobile-cellular sub-basket (\$ a month) 16.6 9.5
Fixed-broadband sub-basket (\$ a month) 59.6 50.3 3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 29.4 8.0
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 8.5 1
Trade
ICT goods exports (% of total goods exports) 0.3 0.4
ICT goods imports (% of total goods imports) 1.9 2.9
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
Secure Internet servers (per million people) 0.2 0.3

Nigeria

Sub-Saharan Africa

Lower middle income

			Lower middle-
	Country	/ data 2015	income group 2015
Economic and social context	2010	2020	2020
Population (millions)	159	182	2.927
Urban population (% of total)	43	48	2,527
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)	C	С	
Mobile telephone service	C	С	
Internet service	C	С	
Foreign ownership (not allowed, restricted, allowed)	A A	A A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	1.8		
Telecommunications investment (% of revenue)	22.9		
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 (%)	0.7 54.7 0.1 7.6 6.1	0.1 82.2 0.0 9.8 ^a 11.4 ^a	
Usage	4.0		7.5
Int'l. voice traffic, total (minutes/subscription/month)	4.6	 85.7	7.5 152.0
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	60.0 24.0ª	47.44	
Quality			
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 2,348	67ª 2,986	 10,372
Affordability	15.4	5.3	6.9
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	15.4 53.1	5.3 32.7	0.9 14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	53.1 12.8	32.7 10.9	14.3 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
ICT service exports (% of total service exports)	2.1	7.7	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.10	0.31	0.26
Secure Internet servers (per million people)	1.2	2.6	7.4

Northern Mariana Islands

East Asia & Pacific

	Countr	Country data		H inc country data	
	2010	2015	group 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			2.5		
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			18.8		
			10.0		
Sector performance					
Access	47.0	20.0	44.0		
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	47.3	39.9	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					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)			195.9		
Individuals using the Internet (%)			81.0		
Quality			99		
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)			99 134.761		
			101,101		
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			0.67		
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 92.8	 54.5	0.67		
	52.0	54.5	1,104.0		

Norway

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 %)	5 79 88,430 0.8	93,820	1,187 81 41,366 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)	Yes Mixed		
International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed)	C C C A	C C A	
Reg. treatment of VoIP (banned, closed, no framework, allowed Sector efficiency and capacity) A	No	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	1.3 24.3		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 (%)	33.7 114.5 35.2 90.9 89.8	113.6 38.9 96.5	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		 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	40.8 6.1	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)	1.4 7.5 36.4	6.9	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		0.67 1,194.6

Oman

Middle East & North Africa

2010 2015 2015 Economic and social context		Counti	Country data		Country data		Country data ⁱⁱ	
Population (millions) 3 4 1,187 Urban population (% of total) 75 78 81 GNI per capita, World Bank Atlas method (\$) 18,770 16,920 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 6.0 3.6 1.5 Adult literacy rate (% ages 15 and older) 87 94 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) International gateway(s) C C C Mobile telephone service C 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 performance Access Fixed-telephone subscriptions (per 100 people) 10.1 10.5 41.2 Mobile-cellular tel		2010	2015	group 2015				
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GNI per capita, World Bank Atlas method (\$) 18,770 16,920 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 6.0 3.6 1.5 Adult literacy rate (% ages 15 and older) 87 94 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) International gateway(s) 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) No A A Sector efficiency and capacity Telecommunications investment (% of GDP) 2.8 2.6 2.5 Telecommunications investment (% of GDP) 2.8 3.6 31.0 Households with a computer (%) 54.3 87.5ª 83.2 Households with a computer (%) 55.5 84.0ª	Population (millions)	3	4	1,187				
$\begin{array}{c} {\rm GDP \ growth, 2005-10 \ and 2010-15 \ (avg. annual \%) \\ {\rm Adult \ literacy rate (\% ages 15 and older) \\ {\rm Gross primary, secondary, and tertiary school enrollment (\%) \\ {\rm Free transmission of the telephone operator \\ {\rm Mixed \ Mixed \ Mixed \ Mixed \\ {\rm Level \ of \ competition, partial \ comp., monopoly) \\ {\rm International \ gateway(s) \\ {\rm Mobile \ telephone \ service \ C \ C \\ {\rm Foreign \ ownership \ (not allowed, restricted, allowed) \\ {\rm Mobile \ telephone \ service \ C \ C \\ {\rm Foreign \ ownership \ (not allowed, restricted, allowed) \\ {\rm Mobile \ telephone \ service \ C \ C \\ {\rm Foreign \ ownership \ (not allowed, restricted, allowed) \\ {\rm Mobile \ telephone \ service \ C \ C \\ {\rm Foreign \ ownership \ (not allowed, restricted, allowed) \\ {\rm Mobile \ telephone \ service \ C \ C \\ {\rm Foreign \ ownership \ (not allowed, restricted, allowed) \\ {\rm Mobile \ telephone \ service \ C \ C \\ {\rm Foreign \ ownership \ (not allowed, restricted, allowed) \\ {\rm Reg. \ treatment \ of \ VolP \ (banned, closed, no \ framework, allowed) \\ {\rm No \ A \\ } \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline$								
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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-b'band, postpaid computer-based, 1 GB (\$ a month) 13.0 14.4 Trade ICT goods exports (% of total goods exports) 0.1 0.1 9.5 ICT goods imports (% of total goods imports) 2.4 3.0 11.2 ICT service exports (% of total service exports) 26.2 16.5 32.0 Applications 0.37 0.73 0.67	international internet bandwidth (bit/s per internet user)	5,582	59,784	134,701				
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-b'band, postpaid computer-based, 1 GB (\$ a month) 13.0 13.0 14.4 Trade ICT goods exports (% of total goods exports) 0.1 0.1 9.5 ICT goods imports (% of total goods imports) 2.4 3.0 11.2 ICT service exports (% of total service exports) 26.2 16.5 32.0 Applications 0.37 0.73 0.67	•							
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 13.0 10.4 Mobile-b'band, prepaid computer-based, 1 GB (\$ a month) 13.0 13.0 14.4 Trade ICT goods exports (% of total goods exports) 0.1 0.1 9.5 ICT goods imports (% of total goods imports) 2.4 3.0 11.2 ICT service exports (% of total service exports) 26.2 16.5 32.0 Applications 0.37 0.73 0.67								
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TradeICT goods exports (% of total goods exports)0.10.19.5ICT goods imports (% of total goods imports)2.43.011.2ICT service exports (% of total service exports)26.216.532.0Applications0.370.730.67								
ICT goods exports (% of total goods exports)0.10.19.5ICT goods imports (% of total goods imports)2.43.011.2ICT service exports (% of total service exports)26.216.532.0Applications0.370.730.67	Mobile-b band, postpaid computer-based, 1 GB (\$ a month)	13.0	13.0	14.4				
ICT goods imports (% of total goods imports) 2.4 3.0 11.2 ICT service exports (% of total service exports) 26.2 16.5 32.0 Applications 0.37 0.73 0.67				0.5				
ICT service exports (% of total service exports) 26.2 16.5 32.0 Applications 0.37 0.73 0.67								
Applications Online service index (0-1, 1=highest presence) 0.37 0.73 0.67								
Online service index (0-1, 1=highest presence) 0.37 0.73 0.67	ICT SETVICE EXPORTS (% OF LOCAL SETVICE EXPORTS)	20.2	10.3	32.0				
	Applications							
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

Journ Asia	ower m	luule	nicome		
	Countr	Country data		Lowe middl incon ountry data	
	2010	2015	group 2015		
	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			
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	C			
Internet service	C A	C			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed		A			
) 110	~			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.3	1.9			
Telecommunications investment (% of revenue)	0.1	40.4			
	0.1	+0.+			
Sector performance					
Access Fixed-telephone subscriptions (per 100 people)	3.5	1.6	3.5		
Mobile-cellular telephone subscriptions (per 100 people)	57.3	66.9			
Fixed-broadband subscriptions (per 100 people)	0.5	1.0	1.9		
Households with a computer (%)	9.7ª	19.0	19.3		
Households with Internet access at home (%)	5.7ª	24.0	24.3		
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			
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	2.7 22.5	1.9 5.7			
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	22.0	5.7	10.0		
Trade	0.0	0.0	E 7		
ICT goods exports (% of total goods exports)	0.2 3.3	0.2 4.6			
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	3.3 16.4	4.6 29.3			
וטי שניאשב באטינש (אי טי נטנמי שבו אונע באטטונש)	10.4	23.3	40.0		
Applications	0.25	0.20	0.26		
Online service index (0-1, 1=highest presence)	0.25 1.0	0.32 2.4			
Secure Internet servers (per million people)	1.0	2.4	1.4		

Palau

East Asia & Pacific

Upper middle income

			Upper middle- income		
	Countr	country data		ountry data gr	
	2010	2015	2015		
Economic and social context Population (millions)	0.02	0.02	2,594		
Urban population (% of total)	83	0.02	2,394		
GNI per capita, World Bank Atlas method (\$)	8,910	12,180	8,186		
GDP growth, 2005-10 and 2010-15 (avg. annual %)	-3.5	3.1	4.5		
Adult literacy rate (% ages 15 and older)		100			
Gross primary, secondary, and tertiary school enrollment (%)		98	81		
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	18.8		
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) Households with a computer (%)	1.2	5.7	15.4 48.7		
Households with a computer (%)	 19.0		52.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	30.6	20.0	2.3		
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)			173.1 52.1		
			52.1		
Quality					
Population covered by at least a 3G mobile network (%)		88	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)	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		
A					
Applications Online service index (0-1, 1=highest presence)	0.05	0.17	0.37		
Secure Internet servers (per million people)	48.9	140.9	34.7		

Panama

Latin America & Caribbean

Upper middle income

			Upper middle-	
	Country data		group	
	2010	2015	2015	
Economic and social context			0.504	
Population (millions)	4 65	4 67	2,594 64	
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s 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	95		
Gross primary, secondary, and tertiary school enrollment (%)	77	76	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	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)	2.9	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)	14.7 180.7	15.6 174.2	17.3 105.1	
Fixed-broadband subscriptions (per 100 people)	7.0	7.9	15.4	
Households with a computer (%)	27.9	39.6	48.7	
Households with Internet access at home (%)	20.3	52.7	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	
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	9.6		15.7	
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	9.6 9.6	 4.9	15.7 14.4	
ICT service exports (% of total service exports)	9.0 8.7	4.9 6.7	14.4 25.7	
Applications				
Online service index (0-1, 1=highest presence)	0.28	0.37	0.37	
· · · · · · · · · · · · · · · · · · ·			34.7	

Papua New Guinea

East Asia & Pacific	Lower middle incor		
	Country	y data	Lower middle- income group
	2010	2015	2015
Economic and social context Population (millions) Urban population (% of total)	7 13	8 13	2,927 39
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)	1,270 6.1	2,240 7.9 63	2,035 5.4
Gross primary, secondary, and tertiary school enrollment (%)			68
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	Yes Public	Yes Public	
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service	 М Р	 M P	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) A	 B	
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 (%)	1.8 27.8 0.1 2.2ª	2.0 46.6 0.2 3.8 ⁶ 5.3 ⁶	
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 1.3	 7.9ª	7.5 152.0 28.6
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) 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)	30.5 136.1 60.0 	22.5 21.7 23.8 39.3	6.9 14.3 5.8 10.0
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	0.0 2.9 49.3	 63.5	5.7 7.6 48.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.07 3.2	0.01 11.0	0.26 7.4

Paraguay

Latin America & Caribbean

Upper middle income

			Upper
			middle- income
	Countr	-	group
Example and exalplanated	2010	2015	2015
Economic and social context Population (millions)	6	7	2,594
Urban population (% of total)	58	60	2,004
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)			
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)	3.7		2.1
Telecommunications investment (% of revenue)			18.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	5.6	5.5	17.3
Mobile-cellular telephone subscriptions (per 100 people)	91.7	105.4	105.1
Fixed-broadband subscriptions (per 100 people)	1.4 19.3	3.1 34.1ª	15.4
Households with a computer (%)	19.5	27.4ª	
Households with Internet access at home (%)	13.0	21.4*	JZ.Z
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	44.4ª	52.1
Quality			
Population covered by at least a 3G mobile network (%)		66ª	
International Internet bandwidth (bit/s per Internet user)	8,295	17,922	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	8.6	4.9	8.5
Fixed-broadband sub-basket (\$ a month)	19.0	28.6	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	18.1	7.7	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ 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
Secure Internet servers (per million people)	6.9	27.9	34.7



Latin America & Caribbean

Upper middle income

			Upper middle-
	Country data group		income group
	2010	2015	2015
Economic and social context			
Population (millions)	29	31	/
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$)	77 4,380	79 6,200	
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4,300 6.8	4.8	
Adult literacy rate (% ages 15 and older)	94	94	
Gross primary, secondary, and tertiary school enrollment (%)	84		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)			
Mobile telephone service	C	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	Α	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.0	3.0	
Telecommunications investment (% of revenue)	19.3	20.7	18.8
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	15.4
Households with a computer (%)	22.6	32.4	
Households with Internet access at home (%)	13.0	23.2	52.2
Usage	0.5		0.0
Int'l. voice traffic, total (minutes/subscription/month)	9.5 58.6		2.3 173.1
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	34.8	 40.9	
	54.0	40.5	J2.1
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	
Affordability			
Mobile-cellular sub-basket (\$ a month)	43.2	11.0	
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	0.1	0.1	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	7.5	9.0	
ICT service exports (% of total service exports)	14.0	10.6	
Applications			
Online service index (0-1, 1=highest presence)	0.41	0.63	
Secure Internet servers (per million people)	14.1	32.4	34.7

Philippines

East Asia & Pacific	Lower m	ower middle i		
	Countr	v data	Lower middle- income	
	2010	2015	group 2015	
Economic and social context				
Population (millions)	93	101	2,927	
Urban population (% of total)	45	44	39	
GNI per capita, World Bank Atlas method (\$)	2,750	3,540	2,035	
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.7	6.1	5.4	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	95 78	97 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)	 C			
Mobile telephone service Internet service	C	C C		
Foreign ownership (not allowed, restricted, allowed)	R	R		
Reg. treatment of VoIP (banned, closed, no framework, allowe		No		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	2.6	1.9		
Telecommunications investment (% of revenue)	24.4	30.6		
Sector performance				
Access 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	27.04	19.3	
Households with Internet access at home (%)	9.5	28.3	24.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)			7.5	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 25.0	 40.7ª	152.0 28.6	
-				
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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.8 23.7	4.4 19.7	5.8 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	0 39	0 48	0.26	
	0.39		U /h	

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

0.39

6.7

0.48

13.7

0.26

7.4
Poland

Europe & Central Asia

	Counti	'y data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	38	38	1,187
Urban population (% of total)	61	58 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)	0	0	
International gateway(s)	C 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	No	
Sector efficiency and capacity	2.0	2.2	2.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.0 16.5	2.3 17.0	2.5 18.8
	10.5	17.0	10.0
Sector performance			
Access	00.4		44.0
Fixed-telephone subscriptions (per 100 people)	20.1 122.9	11.1 148.7	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	122.9	148.7	31.0
Households with a computer (%)	69.0	77.9	83.2
Households with Internet access at home (%)	63.4	75.8	85.0
llaada			
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	 101.4		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		134,761
Affordability	15.8	7.6	14.2
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	13.8	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 ICT goods exports (% of total goods exports)	9.6	7.7	9.5
ICT goods imports (% of total goods imports)	9.8	8.9	3.5 11.2
ICT service exports (% of total service exports)	33.0	33.0	32.0
Applications	0.00	0.5.4	0.07
Online service index (0-1, 1=highest presence)	0.39	0.54	0.67
Secure Internet servers (per million people)	211.6	547.1	1,194.6

Portugal

Europe & Central Asia

	Count	ry data	High- income
	2010	2015	group 2015
Economic and social context Population (millions)	11		1,187
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	61 22,960 0.4	20,530 -1.1	81 41,366 1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	94 96		 95
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	C C	C C	
Internet service Foreign ownership (not allowed, restricted, allowed)	C A	С	
Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.2	2.7	2.5
Telecommunications investment (% of revenue)	14.2		18.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	42.4 115.3		41.2 124.5
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	20.1 59.5	29.6	31.0 83.2
Households with Internet access at home (%)	53.7		85.0
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	130.3 53.3		195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	84 141 734	99 232,080	99 134 761
Affordability	111,101	202,000	101,101
Mobile-cellular sub-basket (\$ a month)	22.9 26.3		14.2 25.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	13.8	8.3	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	19.3	14.4	14.4
Trade ICT goods exports (% of total goods exports)	4.0		9.5
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	5.7 18.4		11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.39 174.7	0.64 315.9	0.67 1,194.6

Puerto Rico

Latin America & Caribbean

	Counti	y 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 %)	4 94 16,640 -2.3	3 94 19,320 -1.9	1,187 81 41,366 1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	92 95	93 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) Telecommunications investment (% of revenue)	2.1	2.0	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 (%)	24.0 79.1 14.9 55.0 50.0	22.1 87.1 18.0 57.3ª 51.8ª	
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 45.3	 79.5ª	 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 136,866	99 	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)	 	 	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)	 89.5	 139.0	0.67 1,194.6

Qatar

Middle East & North Africa

	Counti	v data	High- income
-	2010	2015	group 2015
Economic and social context Population (millions)	2	2	1,187
Urban population (% of total)	99	99	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)	P P	P	
Mobile telephone service Internet service	P	P	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
	-		
Sector efficiency and capacity	1.4	1.2	2.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	20.4	1.2	2.5 18.8
	20.4	10.0	10.0
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	15.4 125.0	18.2 153.6	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	8.3	10.1	31.0
Households with a computer (%)	87.0	88.3	83.2
Households with Internet access at home (%)	81.8	95.8	85.0
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
- <i></i>			
Quality Population covered by at least a 3G mobile network (%)	98	98	99
International Internet bandwidth (bit/s per Internet user)	20,295		134,761
Affordability	40.4	40.7	
Mobile-cellular sub-basket (\$ a month)	18.4	18.7	14.2
Fixed-broadband sub-basket (\$ a month)	54.9 27.5	64.0 22.0	25.2 10.4
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	27.5	16.5	10.4
Mobile-b balla, postpala computer-based, 1 db (4 a month)	21.5	10.5	14.4
Trade			
ICT goods exports (% of total goods exports)	0.0	0.0	9.5
ICT goods imports (% of total goods imports)	4.3	5.6	11.2
ICT service exports (% of total service exports)			32.0
Applications			
Online service index (0-1, 1=highest presence)	0.28	0.65	0.67
Secure Internet servers (per million people)	85.0	296.6	1,194.6

Romania

Europe & Central Asia

Upper middle income

			Upper middle-
		ry data	income group
	2010	2015	2015
Economic and social context			
Population (millions)	20		,
Urban population (% of total)	54		
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	8,590 3.0		
Adult literacy rate (% ages 15 and older)	3.0 99		
Gross primary, secondary, and tertiary school enrollment (%)	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	С	
Mobile telephone service Internet service	C C	C C	
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)	2.2	1.7	2.1
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		
Fixed-broadband subscriptions (per 100 people)	13.7	19.8	
Households with a computer (%)	47.9		
Households with Internet access at home (%)	42.2	67.7	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	8.9		
Domestic mobile traffic (minutes/subscription/month)	177.9 39.9		
Individuals using the Internet (%)	39.9	55.8	52.1
Quality Population covered by at least a 3G mobile network (%)	91	100	69
International Internet bandwidth (bit/s per Internet user)		146,012	
Affordability			
Mobile-cellular sub-basket (\$ a month)	21.8		
Fixed-broadband sub-basket (\$ a month)	9.1		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	12.8		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.3	3.7	11.1
Trade	8.4	3.8	15.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	9.3		
ICT service exports (% of total service exports)	35.0		
Applications			
Online service index (0-1, 1=highest presence)	0.42	0.44	0.37
Online Service index (0-1, 1-ingliest presence)	0.12	0.11	0.01

Russian Federation

Europe & Central Asia	Upper n	niddle i	income
	Count	ry data	Upper middle- income group
	2010	2015	2015
Economic and social context			
Population (millions)	143	144	2,594
Urban population (% of total)	74	74	64
GNI per capita, World Bank Atlas method (\$)	9,980	11,400	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	3.1	1.3	
Adult literacy rate (% ages 15 and older)	100	100	
Gross primary, secondary, and tertiary school enrollment (%)	88	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	 C	
Mobile telephone service Internet service			
Foreign ownership (not allowed, restricted, allowed)		R	
Reg. treatment of VoIP (banned, closed, no framework, allowed		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.7	1.9	2.1
Telecommunications investment (% of revenue)	15.3	19.6	
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	
Fixed-broadband subscriptions (per 100 people)	10.9	18.8	15.4
Households with a computer (%)	55.0	72.5	48.7
Households with Internet access at home (%)	41.3	72.1	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			2.3
Domestic mobile traffic (minutes/subscription/month)	112.2	151.1	173.1
Individuals using the Internet (%)	43.0	73.4	52.1
Quality			
Population covered by at least a 3G mobile network (%)		73	69
International Internet bandwidth (bit/s per Internet user)	17,812	26,845	26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)	9.2	3.7	8.5
Fixed-broadband sub-basket (\$ a month)	9.9	6.6	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	16.2	3.3	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	16.2	5.7	11.1
Trade			
ICT goods exports (% of total goods exports)	0.2	0.8	15.7
ICT goods imports (% of total goods imports)	8.5	7.9	14.4
ICT service exports (% of total service exports)	30.4	32.0	25.7
Applications			
Online service index (0-1, 1=highest presence)	0.33	0.71	0.37
Secure Internet servers (per million people)	20.2	126.4	34.7

Rwanda

Sub-Saharan Africa

Low income

2010 2015 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 enroliment (%) 69 73 60 Sector structure Separate telecommunications/ICIT regulator Yes Yes Yes Status of nain fixed-line telephone operator Mixed Level of competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service C <th></th> <th>Country</th> <th>y data</th> <th>Low- income group</th>		Country	y data	Low- income group
Population (millions)1012638Urban population (% of total)242931GNI per capita, World Bank Atlas method (\$)550700620GDP growth, 2005-10 and 2010-15 (avg. annual %)8.46.95.4Aduti literacy rate (% ages 15 and older)6671Gross primary, secondary, and tertiary school enrollment (%)697360Sector structureSector structureSector structureSector structureNixedLevel of competition (competition, partial comp., monopoly)International gateway(s)PPMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityTelecommunications revenue (% of GDP)2.92.8Telecommunications investment (% of revenue)108.628.9Mobile-cellular telephone subscriptions (per 100 people)0.40.10.9Mobile-cellular telephone subscription/month)3.77.1.560.0Fixed-broadband subscriptions (per 100 people)0.40.10.9Mobile-cellular telephone subscription/month)3.71.7.7Domestic mobile traffic (total (minutes/subscription/month)3.77.1.560.0Fixed-broadband sub-basket (§ a month)1.3.59.7.13.851International		2010	2015	
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 Sector structure Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) No No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 2.8 Telecommunications investment (% of revenue) 108.6 28.9 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.4 0.1 0.9 Mobile-cellular telephone subscription (per 100 people) 0.4 <td>Economic and social context</td> <td></td> <td></td> <td></td>	Economic and social context			
GNI per capita, World Bank Atias 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) International gateway(s) M A Reg. treatment of VoIP (banned, closed, no framework, allowed) No Sector efficiency and capacity Telecommunications investment (% of revenue) 108.6 28.9 Fleecommunications investment (% of revenue) 108.6 28.9 Telecommunications investment (% of revenue) 00 0.2 0.3 Households with a computer (%) 1.3 4.0ª 4.8 4.0ª 4.8 Households with Internet access at home (%) 1.3ª 6.7ª 7.1 Sector performance Access International internet access at home (%) 1.3ª 6.7ª 7.1	Population (millions)	10	12	638
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 Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) P P International gateway(s) P P C C C Internet service C C 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) 2.9 2.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.4 0.1 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.4 0.1 0.9 Households with lat computer (%) 1.3 a 4.0 a 4.8 Households with a computer	Urban population (% of total)	24	29	
Adult literacy rate (% ages 15 and older) 66 71 Gross primary, secondary, and tertiary school enrollment (%) 69 73 60 Sector structure Sector structure Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service C C C International gateway(s) P P P Mobile telephone service C C C Internet service C C C Freed.treatment of VoIP (banned, closed, no framework, allowed) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 2.8 Telecommunications revenue (% of GDP) 2.9 2.8 Telecommunications investment (% of revenue) 108.6 28.9 Mobile-cellular telephone subscriptions (per 100 people) 0.4 0.1 0.9 Mobile-cellular subscriptions (per 100 people) 0.0 0.2 0.3 Households with a computer (%) 1.3ª 6.7ª 7.1 Usage Int'L. voice traffic, t				
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) P P International gateway(s) P P 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 Image: Communications revenue (% of GDP) 2.9 2.8 Telecommunications investment (% of revenue) 108.6 28.9 Sector performance Access Image: Communications (per 100 people) 0.4 0.1 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.3 4.0ª 4.8 Households with a computer (%) 1.3 4.0ª 4.8 Households with Internet access at home (%) 1.3 ^a 6.7 ^a 7.1 Domestic mobile traffic (minutes				5.4
Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) P P 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) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 2.8 Telecommunications investment (% of revenue) 108.6 28.9 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.4 0.1 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.2 0.3 Households with a computer (%) 1.3 4.0 ^a 4.8 Households with Internet access at home (%) 1.3 ^a 6.7 ^a 7.1 Domestic mobile traffic (minutes/subscription/month) 3.7 1.7 Individuals using the Int				
Status of main fixed-line telephone operatorMixedLevel of competition (competition, partial comp., monopoly) International gateway(s)PPMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacity Telecommunications revenue (% of GDP)2.92.8Telecommunications revenue (% of GDP)2.92.8Sector performanceAAAccessFixed-trelephone subscriptions (per 100 people)0.40.1Mobile-cellular telephone subscriptions (per 100 people)0.40.20.3Households with a computer (%)1.34.0ª4.8Households with Internet access at home (%)1.3a*6.7ª7.1UsageIntil voice traffic, total (minutes/subscription/month)3.71.7Individuals using the Internet (%)8.018.0ª9.5QualityPopulation covered by at least a 3G mobile network (%)8851International Internet bandwidth (bit/s per Internet user)1.8955,6614,245Affordability14.75.99.44.88.0Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)8.11.48.0Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)8.210.8TradeICT goods imports (% of total goods exports)0.61.1<	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s)PPMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacity Telecommunications revenue (% of GDP)2.92.8Telecommunications revenue (% of GDP)2.92.8Sector performance Access Fixed-telephone subscriptions (per 100 people)0.40.10.9Mobile-cellular telephone subscriptions (per 100 people)0.00.20.3Households with a computer (%)1.34.0ª4.8Households with internet access at home (%)1.3ª6.7ª7.1Usage Individuals using the Internet (%)8.018.0ª9.5Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)8.851International Internet bandwidth (bit/s per Internet user)1.8955,6614.245Affordability Mobile-cellular sub-basket (\$ a month)14.75.99.4Fixed-broadband sub-basket (\$ a month)1.4.75.99.4ICT goods exports (% of total goods exports)0.61.1ICT goods exports (% of total goods exports)0.61.1ICT goods imports (% of total goods imports)7.19.23.4ICT service exports (% of total service exports)2.1 <td>Separate telecommunications/ICT regulator</td> <td>Yes</td> <td>Yes</td> <td></td>	Separate telecommunications/ICT regulator	Yes	Yes	
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Applications 0.17 0.51 0.11				3.4
Online service index (0-1, 1=highest presence) 0.17 0.51 0.11	ICI service exports (% of total service exports)	2.1	3.2	
Online service index (0-1, 1=highest presence) 0.17 0.51 0.11	Applications			
Secure Internet servers (per million people) 0.7 4.1 1.5		0.17	0.51	0.11
	Secure Internet servers (per million people)	0.7	4.1	1.5

Samoa

East Asia & Pacific

Lower middle income

$\begin{tabular}{ c c c c } \hline \hline Country data & group & 2010 & 2015 & 20$				Lower middle-
Economic and social contextPopulation (millions)0.190.192.92Urban population (% of total)20193GNI per capita, World Bank Atlas method (\$)3.2303.9302.03GDP growth, 2005-10 and 2010-15 (ayg, annual %)0.90.95.Adult literacy rate (% ages 15 and older)9999Gross primary, secondary, and tertiary school enrollment (%)Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorPublicMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternational gateway(s)CCCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityTelecommunications investment (% of revenue)Induscholds with a computer (%)100 people)4.35.63.Mobile-cellular telephone subscriptions (per 100 people)4.458.590.Fixed-broadband subscriptions (per 100 people)0.11.11.1Households with a computer (%)10.0ª25.5ª24.UsageInt1. voice traffic, total (minutes/subscription/month).1.152.1.1Individuals using the Internet (%)7.0ª25.4ª28.26.4ª				income group
Population (millions) 0.19 0.19 2.92 Urban population (% of total) 20 19 3 GNI per capita, World Bank Atlas method (\$) 3,230 3,930 2,03 GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.9 0.9 5. Adult literacy rate (% ages 15 and older) 99 99 Gross primary, secondary, and tertiary school enrollment (%) . . 6 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Mobile telephone service C </th <th></th> <th>2010</th> <th>2015</th> <th>2015</th>		2010	2015	2015
Urban population (% of total)20193GNI per capita, World Bank Atlas method (\$)3,2303,9302,03GDP growth, 2005-10 and 2010-15 (avg. annual %)0.90.90.9Gross primary, secondary, and tertiary school enrollment (%)6Sector structureSector structureSector structureSector structureSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorPublicMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)CCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector performanceASector structureAccessFixed-telephone subscriptions (per 100 people)4.35.63.Mobile-cellular telephone subscriptions (per 100 people)4.35.63.Households with a computer (%)10.0ª25.5ª24.UsageInt'l. voice traffic, total (minutes/subscription/month)20.821.17.Domestic mobile traffic (minutes/subscription/month)11.International Internet (%)11.3.Gut and the determine tore (%)11.1.Induscholds with Internet (%)7.0ª25.4ª28.QualityPopulation covered by at least a 3G mobile network (%)	Economic and social context			
GNI per capita, World Bank Atlas method (\$)3,2303,9302,03GDP growth, 2005-10 and 2010-15 (avg. annual %)0.90.90.95.Adult literacy rate (% ages 15 and older)999999Gross primary, secondary, and tertiary school enrollment (%)6Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorPublicMixedLevel of competition (competition, partial comp., monopoly)CCInternational gateway(s)CCCMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector performanceAccessFixed-telephone subscriptions (per 100 people)4.35.63.Mobile-cellular telephone subscriptions (per 100 people)4.35.63.Households with a computer (%)10.0ª25.5ª24.UsageInt.1.11.11.11.1Households with Internet access at home (%)10.0ª25.5ª24.UsageInt152.1.0.3Individuals using the Internet (%)7.0ª25.4ª28.2.4ªOuseholds with Internet bandwidth (bit/s per Internet user)3,8407,84210.37AffordabilityMobile-cellular sub-basket (2,927
GDP growth, 2005-10 and 2010-15 (avg. annual %)0.90.90.95.Adult literacy rate (% ages 15 and older)999999Gross primary, secondary, and tertiary school enrollment (%)6Sector structureSeparate telecommunications/ICT regulatorYesYesYesSeparate telecommunications/ICT regulatorYesYesYesLevel of competition (competition, partial comp., monopoly)International gateway(s)CCCInternet serviceCCCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector efficiency and capacityTelecommunications investment (% of GDP)Telecommunications investment (% of revenue)Sector performanceAccessFixed-telephone subscriptions (per 100 people)4.35.63.Mobile-cellular telephone subscriptions (per 100 people)0.11.11.Households with a computer (%)13.0 ^a 22.6 ^a 19.Households with a computer (%)10.0 ^a 25.5 ^a 24.Usage152.Individuals using the Internet (%)11.1.Domestic mobile traffic (minutes/subscription/month)1.0 ^a 25.4 ^a 28.Quality11.1.1. <t< td=""><td></td><td></td><td></td><td>39</td></t<>				39
Adult literacy rate (% ages 15 and older) 99 99 Gross primary, secondary, and tertiary school enrollment (%) 6 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) No No Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 48.4 58.5 90. Fixed-telephone subscriptions (per 100 people) 0.1 1.1 1. 1. Households with a computer (%) 10.0 ³ 22.5 ^a 12.4 Households with netmet access at home (%) 10.0 ³ 25.5 ^a 24. Usage 15.2 1. 1.		,	· ·	,
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Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) 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) No No Sector efficiency and capacity . . Telecommunications revenue (% of GDP) . . Telecommunications investment (% of revenue) . . Sector performance Access . Fixed-telephone subscriptions (per 100 people) 48.4 58.5 90.1 Households with a computer (%) 13.0 ^a 22.6 ^a 19. Households with nernet access at home (%) 10.0 ^a 25.5 ^a 24. Usage Intl'. voice traffic, total (minutes/subscription/month) Usa				
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Fixed-broadband subscriptions (per 100 people) 0.1 1.1 1. Households with a computer (%) 13.0ª 22.6ª 19. Households with Internet access at home (%) 10.0ª 25.5ª 24. Usage Int'l. voice traffic, total (minutes/subscription/month) 20.8 21.1 7. Domestic mobile traffic (minutes/subscription/month) 152. Individuals using the Internet (%) 7.0ª 25.4ª 28. Quality Population covered by at least a 3G mobile network (%) 1 International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.				3.5
Households with a computer (%) 13.0° 22.6° 19. Households with a computer (%) 10.0° 25.5° 24. Usage 10.0° 25.5° 24. Int'l. voice traffic, total (minutes/subscription/month) 20.8 21.1 7. Domestic mobile traffic (minutes/subscription/month) 152. Individuals using the Internet (%) 7.0° 25.4° 28. Quality Population covered by at least a 3G mobile network (%) 1 International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.				90.5 1.9
Households with Internet access at home (%) 10.0° 25.5° 24. Usage Int'l. voice traffic, total (minutes/subscription/month) 20.8 21.1 7. Domestic mobile traffic (minutes/subscription/month) 152. 152. Individuals using the Internet (%) 7.0° 25.4° 28. Quality Population covered by at least a 3G mobile network (%) 1 International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.				
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Domestic mobile traffic (minutes/subscription/month) 152. Individuals using the Internet (%) 7.0ª 25.4ª 28. Quality Population covered by at least a 3G mobile network (%) 1 International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.	Usage			
Individuals using the Internet (%) 7.0° 25.4° 28. Quality Population covered by at least a 3G mobile network (%) . 1 International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.	Int'l. voice traffic, total (minutes/subscription/month)	20.8	21.1	7.5
Quality 1 Population covered by at least a 3G mobile network (%) 1 International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.				152.0
Population covered by at least a 3G mobile network (%) 1 International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability 17.6 16.5 6.	Individuals using the Internet (%)	7.0ª	25.44	28.6
Population covered by at least a 3G mobile network (%) 1 International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability 17.6 16.5 6.	- ····			
International Internet bandwidth (bit/s per Internet user) 3,840 7,842 10,37 Affordability Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.			1	
AffordabilityMobile-cellular sub-basket (\$ a month)17.616.56.		3 8/0		10 372
Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.		5,040	1,042	10,572
Mobile-cellular sub-basket (\$ a month) 17.6 16.5 6.	Affordability			
Fixed-broadband sub-basket (\$ a month) 60.0 38.7 14.	•	17.6	16.5	6.9
	Fixed-broadband sub-basket (\$ a month)	60.0	38.7	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 39.3 19.5 5.	Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	39.3	19.5	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 32.7 20.2 10.	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	32.7	20.2	10.0
Trade		0.1	0.4	E 7
				5.7 7.6
				7.6 48.0
ICT service exports (% of total service exports) 10.1 9.5 48.	וטו שבואונים פאטוונש (א טו נטנמו שבואונים פאטוונש)	10.1	3.0	40.0
Applications	Annlications			
		0.14	0.24	0.26
	Secure Internet servers (per million people)	21.5	41.4	7.4

San Marino

Europe & Central Asia

	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 (\$)	0.03 94 52,140	0.03 94	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 (%)	3.1 88		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)	No Mixed	No Private 	
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed	C I)	C 	
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	0.28 1,636.2	0.67 1,194.6

São Tomé and Príncipe

Sub-Saharan Africa

Lower middle income

			Lower
	Countr	y data	middle- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.17	0.19	2,927
Urban population (% of total)	62	65	39
GNI per capita, World Bank Atlas method (\$)	1,190	1,670	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.7	4.5	5.4
Adult literacy rate (% ages 15 and older)	90	92	
Gross primary, secondary, and tertiary school enrollment (%)	69	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)			
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)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	8.6		
Telecommunications investment (% of revenue)	60.0		
Sector performance			
Access		0.5	2.5
Fixed-telephone subscriptions (per 100 people)	4.4 57.6	3.5 65.1	3.5 90.5
Mobile-cellular telephone subscriptions (per 100 people)	0.3	0.5	90.5
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.5	0.5	1.9
Households with a computer (%)			24.3
			2.110
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	9.1		7.5
Domestic mobile traffic (minutes/subscription/month)	26.2 18.8	 25 0:	152.0
Individuals using the Internet (%)	18.8	25.8	28.6
Quality			
Population covered by at least a 3G mobile network (%)	2		
International Internet bandwidth (bit/s per Internet user)	1,197	8,594	10,372
Affordability			
Mobile-cellular sub-basket (\$ a month)	12.7	11.7	6.9
Fixed-broadband sub-basket (\$ a month)	285.4	27.7	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	163.9	4.5	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	115.5	29.1	10.0
Trade			
ICT goods exports (% of total goods exports)	0.7	0.1	5.7
ICT goods imports (% of total goods imports)	5.8	4.3	7.6
ICT service exports (% of total service exports)	9.9	19.3	48.0
Applications Online service index (0-1, 1=highest presence)	0.09	0.01	0.26
Secure Internet servers (per million people)	17.6	10.5	7.4
······································	-		-

Saudi Arabia

Middle East & North Africa

	Countr	y 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) Gross primary, secondary, and tertiary school enrollment (%)	 79	95 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)			
Mobile telephone service	Р	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	No	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.1	2.1	2.5
Telecommunications investment (% of revenue)	19.1	13.5	18.8
Sector performance			
Access	45.0	10 5	44.0
Fixed-telephone subscriptions (per 100 people)	15.3 189.2	12.5 176.6	41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	6.3	12.0	31.0
Households with a computer (%)	57.3ª	67.0	83.2
Households with Internet access at home (%)	54.4ª	94.0	85.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	29.2	35.9	
Domestic mobile traffic (minutes/subscription/month)	101.5	106.5	195.9
Individuals using the Internet (%)	41.0	69.6	81.0
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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	18.7 26.4	18.7 11.7	10.4 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	3.5 11.2
ICT service exports (% of total service exports)	3.4	1.9	32.0
Annilastions			
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

201020152015Economic and social contextPopulation (millions)131563Urban population (% of total)424433GNI per capita, World Bank Atlas method (\$)1,0401,00062GDP growth, 2005-10 and 2010-15 (avg. annual %)3.64.155Adult literacy rate (% ages 15 and older)525656Gross primary, secondary, and tertiary school enrollment (%)4766Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)PCInternet servicePCForeign ownership (not allowed, restricted, allowed)AReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoNoSector efficiency and capacityTelecommunications revenue (% of GDP)9.99.7Telecommunications investment (% of revenue)25.512.35Sector performanceAccessFixed-telephone subscriptions (per 100 people)64.499.960Fixed-telephone subscriptions (per 100 people)0.60.70Households with a computer (%)5.7a12.9a4	Low- income group
Population (millions)131563Urban population (% of total)424433GNI per capita, World Bank Atlas method (\$)1,0401,00062GDP growth, 2005-10 and 2010-15 (avg. annual %)3.64.155Adult literacy rate (% ages 15 and older)5256Gross primary, secondary, and tertiary school enrollment (%)4766Sector structureYesYesYesSeparate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)PCMobile telephone servicePCInternet servicePCForeign ownership (not allowed, restricted, allowed)AReg. treatment of VoIP (banned, closed, no framework, allowed)NoNoSector perficiency and capacityP9.99.7Telecommunications revenue (% of GDP)9.99.712.3Sector performanceAccessFixed-telephone subscriptions (per 100 people)64.499.960Fixed-telephone subscriptions (per 100 people)0.60.70Mouseholds with a computer (%) 5.7^a 12.9a4Households with a computer (%) 5.7^a 12.9a4	
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GNI per capita, World Bank Atlas method (\$) 1,040 1,000 62 GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.6 4.1 5 Adult literacy rate (% ages 15 and older) 52 56 Gross primary, secondary, and tertiary school enrollment (%) 47 66 Sector structure Sector structure Sector structure 52 56 Status of main fixed-line telephone operator Mixed Mixed Mixed Level of competition (competition, partial comp., monopoly) P C C International gateway(s) P C C Foreign ownership (not allowed, restricted, allowed) A Reg. treatment of VoIP (banned, closed, no framework, allowed) No No No Sector efficiency and capacity Telecommunications investment (% of revenue) 25.5 12.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 64.4 99.9 60 Fixed-telephone subscriptions (per 100 people) 0.6 0.7 0 Mobile-cellular telephone subscriptions (per 100 people) 6.4 99.9 60 Fixed-broadband subscriptions (13 15 638
GDP growth, 2005-10 and 2010-15 (avg. annual %) 3.6 4.1 5 Adult literacy rate (% ages 15 and older) 52 56 Gross primary, secondary, and tertiary school enrollment (%) 47 66 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Mixed Mixed Level of competition (competition, partial comp., monopoly) P C 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 No Sector efficiency and capacity Telecommunications revenue (% of GDP) 9.9 9.7 Telecommunications investment (% of revenue) 25.5 12.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 6.6 0.7 0 Mobile-cellular telephone subscriptions (per 100 people) 0.6 0.7 0 Mobile-cellular telephone subscriptions (per 100 people) 0.6	/
Adult literacy rate (% ages 15 and older) 52 56 Gross primary, secondary, and tertiary school enrollment (%) 47 66 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) P C 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 investment (% of GDP) 9.9 9.7 Telecommunications investment (% of revenue) 25.5 12.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 64.4 99.9 60 Fixed-telephone subscriptions (per 100 people) 0.6 0.7 0 Mouseholds with a computer (%) 5.7a 12.9a 4 Households with Internet access at home (%) 4.2a 15.7a 7	, , , , , , , , , , , , , , , , , , , ,
Gross primary, secondary, and tertiary school enrollment (%) 47 6 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition, partial comp., monopoly) International gateway(s) P C Mobile telephone service P C Internet service P C Internet service P 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) 9.9 9.7 Telecommunications investment (% of revenue) 25.5 12.3 Sector performance Access Exector securitions (per 100 people) 64.4 99.9 60 Fixed-telephone subscriptions (per 100 people) 0.6 0.7 0 Mouseholds with a computer (%) 5.7ª 12.9ª 4 Households with Internet access at home (%) 4.2ª 15.7ª 7	
Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Mixed Mixed Level of competition (competition, partial comp., monopoly) P C International gateway(s) P C 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 Fixed-telephone subscriptions (per 100 people) 64.4 99.9 60 Fixed-telephone subscriptions (per 100 people) 0.6 0.7 0 Mobile-cellular telephone subscriptions (per 100 people) 5.7a 12.9a 4 Households with a computer (%) 5.7a 12.9a 4	
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Telecommunications investment (% of revenue) 25.5 12.3 Sector performance Access Fixed-telephone subscriptions (per 100 people) 2.6 2.0 0 Mobile-cellular telephone subscriptions (per 100 people) 64.4 99.9 60 Fixed-broadband subscriptions (per 100 people) 0.6 0.7 0 Households with a computer (%) 5.7a 12.9a 4 Households with Internet access at home (%) 4.2a 15.7a 7	
Sector performance Access Fixed-telephone subscriptions (per 100 people) 2.6 2.0 0 Mobile-cellular telephone subscriptions (per 100 people) 64.4 99.9 60 Fixed-tread subscriptions (per 100 people) 0.6 0.7 0 Households with a computer (%) 5.7ª 12.9ª 4 Households with Internet access at home (%) 4.2ª 15.7ª 7	
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Fixed-telephone subscriptions (per 100 people) 2.6 2.0 0 Mobile-cellular telephone subscriptions (per 100 people) 64.4 99.9 60 Fixed-broadband subscriptions (per 100 people) 0.6 0.7 0 Households with a computer (%) 5.7ª 12.9ª 4 Households with Internet access at home (%) 4.2ª 15.7ª 7	
Mobile-cellular telephone subscriptions (per 100 people) 64.4 99.9 60 Fixed-broadband subscriptions (per 100 people) 0.6 0.7 0 Households with a computer (%) 5.7ª 12.9ª 4 Households with Internet access at home (%) 4.2ª 15.7ª 7	ns (per 100 people) 2.6 2.0 0.9
Fixed-broadband subscriptions (per 100 people) 0.6 0.7 0 Households with a computer (%) 5.7ª 12.9ª 4 Households with Internet access at home (%) 4.2ª 15.7ª 7	
Households with a computer (%) 5.7 ^a 12.9 ^a 4 Households with Internet access at home (%) 4.2 ^a 15.7 ^a 7	· · · · · · · · · · · · · · · · · · ·
Usage	cess at home (%) 4.2 ^a 15.7 ^a 7.1
Int'l. voice traffic, total (minutes/subscription/month) 13.5 7.6	
Individuals using the Internet (%) 8.0 ^a 21.7 ^a 9	t (%) 8.0ª 21.7ª 9.5
Quality	
International Internet bandwidth (bit/s per Internet user) 5,212 6,931 4,24	idth (bit/s per Internet user) 5,212 6,931 4,245
Affordability	
Trade ICT goods exports (% of total goods exports) 0.4 0.4	$(a_{0}a_{1}a_{2}a_{2}a_{3}a_{2}a_{3}a_{2}a_{3}a_{2}a_{3}a_{3}a_{3}a_{3}a_{3}a_{3}a_{3}a_{3$
Sector subsect (in the sector subsect)	Greet coperation,
ICT service exports (% of total service exports) 33.6	o . ,
Applications	
	highest presence) 0.18 0.31 0.11

Serbia

Europe & Central Asia

Upper middle income

			Upper middle-	
	Countr	-	income group	
	2010	2015	2015	
Economic and social context				
Population (millions)	7	7	,	
Urban population (% of total)	55	56	64	
GNI per capita, World Bank Atlas method (\$)	5,850	5,500	,	
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	2.7 98	0.3 98		
Gross primary, secondary, and tertiary school enrollment (%)	79	30 84		
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	С		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	A	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	4.9	4.6		
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) Households with a computer (%)	10.9 50.9ª	16.8 64.4		
Households with Internet access at home (%)	40.2ª	63.8		
	10.2	00.0	02.2	
Usage	8.6	7.0	2.3	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	73.3	131.3		
Individuals using the Internet (%)	40.9	65.3	52.1	
	1010	0010	0211	
Quality	69	97	69	
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	45,597	20,478		
international internet bandwidth (bit/s per internet user)	40,097	20,476	20,098	
Affordability				
Mobile-cellular sub-basket (\$ a month)	8.6	14.3		
Fixed-broadband sub-basket (\$ a month)	15.3	14.2		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	6.9 4.6	4.6 6.4		
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	4.0	0.4	11.1	
Trade	1.0		45 7	
ICT goods exports (% of total goods exports)	1.6	1.4		
ICT goods imports (% of total goods imports)	4.2 34.0	3.2 36.7		
ICT service exports (% of total service exports)	34.0	30.7	20.7	
Applications			•	
Online service index (0-1, 1=highest presence)	0.22	0.39		
Secure Internet servers (per million people)	19.9	63.5	34.7	

Seychelles

Sub-Saharan Africa

	Countr	Country data	
	2010	2015	group 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)	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)	A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.8		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 (%)	24.2 128.9 7.4 37.8	22.8 158.1 14.3 66.8ª	41.2 124.5 31.0 83.2
Households with Internet access at home (%)	26.1	59.4ª	85.0
Usage Int'I. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	9.1 42.3 41.0ª	4.1 59.9 58.1ª	 195.9 81.0
Quality			
Population covered by at least a 3G mobile network (%)	90	90	99 124 761
International Internet bandwidth (bit/s per Internet user)	4,961	38,395	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)	15.9 48.1 29.9 21.8	13.2 15.1 16.9 18.7	14.2 25.2 10.4 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) Secure Internet servers (per million people)	0.06 1,114.0	0.33 484.4	0.67 1,194.6

Sierra Leone

Sub-Saharan Africa

Low income

2010 2015 Economic and social context Population (millions) 6 6 633 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 Sector structure Sector structure P Level of competition, partial comp., monopoly) Internet service P P Internet service P P P Internet service P P P Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B B B Sector efficiency and capacity Sector pefformance Access		Country	Country data	
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) Internet service P P P Mobile telephone service P P Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) Fixed-telephone subscriptions (per 100 people) Mobile cellular telephone subscription/month) Mobile-cellular telephone subscription/month)		2010	2015	group 2015
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 Sector structure Sector structure Sector structure Sequence Public Public Public Level of competition, partial comp., monopoly) Internet service P P Internet service P P P Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications investmet (% of GDP) Sector performance Access Nouseholds with a computer (%)	Economic and social context			
GNI per capita, World Bark 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 Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P P Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications investment (% of revenue) Telecommunications investment (% of revenue) Fixed-telephone subscriptions (per 100 people) 34.8 89.5 60.0 Households with a computer (%) Idecommunications investment (% of CoP)		6	6	638
GDP growth, 2005-10 and 2010-15 (avg. annual %) 5.8 6.9 5.4 Adult literacy rate (% ages 15 and older)	Urban population (% of total)	38	40	31
Adult literacy rate (% ages 15 and older) 48 Gross primary, secondary, and tertiary school enroliment (%) 60 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) P P Internet service P P P Foreign ownership (not allowed, restricted, allowed) 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 Noile cellular telephone subscriptions (per 100 people) 34.8 89.5 60.00 Fixed-telephone subscriptions (per 100 people) Mobile cellular telephones subscription/month) Int'l. voice traffic, total (minutes/subscription/month)				
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 Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P P Internet service P P P Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B B B Sector efficiency and capacity Telecommunications investment (% of GDP) Sector performance Access Households with a computer (%) Households with nternet access at home (%) Internet service population covered by at least a 3G mobile network (%) </td <td></td> <td>5.8</td> <td></td> <td>5.4</td>		5.8		5.4
Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P P Foreign ownership (not allowed, restricted, allowed) 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) 0.2 0.3 0.9 Mobile-cellular telephone subscriptions (per 100 people) 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) 0.6ª 2.5ª 9.5 <td></td> <td></td> <td></td> <td></td>				
Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P P Foreign ownership (not allowed, restricted, allowed) 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) 0.2 0.3 0.9 Mobile-cellular telephone subscriptions (per 100 people) 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) 0.6ª 2.5ª 9.5 <td></td> <td></td> <td></td> <td></td>				
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Population covered by at least a 3G mobile network (%) 51 International Internet bandwidth (bit/s per Internet user) 5,096 4,245 Affordability 12.0 9.4 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, 1 GB (\$ a month) 22.8 10.8 Trade 1.8 3.4 ICT goods exports (% of total goods imports) 1.8 3.4 ICT service exports (% of total service exports) 5.8 60.1 Applications 0.00 0.05 0.11		0.6ª	2.5ª	9.5
International Internet bandwidth (bit/s per Internet user) 5,096 4,245 Affordability Mobile-cellular sub-basket (\$ a month) 12.0 9.4 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, 1 GB (\$ a month) 22.8 10.8 Trade 0.0 ICT goods exports (% of total goods exports) 1.8 3.4 ICT service exports (% of total service exports) 5.8 60.1 Applications 0.00 0.05 0.11	Quality			
Affordability Mobile-cellular sub-basket (\$ a month) 12.0 9.4 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, 1 GB (\$ a month) 22.8 10.8 Trade 0.0 12.8 3.4 ICT goods exports (% of total goods exports) 1.8 3.4 ICT service exports (% of total service exports) 5.8 60.1 Applications 0.00 0.05 0.11	Population covered by at least a 3G mobile network (%)			51
Mobile-cellular sub-basket (\$ a month) 12.0 9.4 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, 1 GB (\$ a month) 22.8 10.8 Trade 0.0 ICT goods exports (% of total goods exports) 1.8 3.4 ICT service exports (% of total service exports) 5.8 60.1 Applications 0.00 0.05 0.11	International Internet bandwidth (bit/s per Internet user)	5,096		4,245
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, 1 GB (\$ a month) 22.8 10.8 Trade 0.0 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 0.00 0.05 0.11			40.0	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 28.3 13.6 8.0 Mobile-b'band, postpaid computer-based, 1 GB (\$ a month) 22.8 10.8 Trade 0.0 ICT goods exports (% of total goods exports) 1.8 3.4 ICT service exports (% of total service exports) 5.8 60.1 Applications 0.00 0.05 0.11				
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ICT goods imports (% of total goods imports) 1.8 3.4 ICT service exports (% of total service exports) 5.8 60.1 Applications 0.00 0.05 0.11			0.0	
ICT service exports (% of total service exports) 5.8 60.1 Applications 0.00 0.05 0.11			1.8	3.4
Online service index (0-1, 1=highest presence)0.000.050.11		5.8	60.1	
Secure Internet servers (per million people) 0.2 0.9 1.5	Secure Internet servers (per million people)	0.2	0.9	1.5

Singapore

East Asia & Pacific

	Count	Country data	
	2010	2015	group 2015
Economic and social context 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
GDP growth, 2005-10 and 2010-15 (avg. annual %)	5.7	4.0	1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	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)	С	С	
Mobile telephone service	С	С	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A 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)	39.3	36.0	41.2
Mobile-cellular telephone subscriptions (per 100 people)	145.4		124.5
Fixed-broadband subscriptions (per 100 people)	26.4	26.5	31.0
Households with a computer (%)	84.0	87.5ª	
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	100	100	00
Population covered by at least a 3G mobile network (%)	100	100	99 124 761
International Internet bandwidth (bit/s per Internet user)	172,404	737,006	134,701
Affordability			
Mobile-cellular sub-basket (\$ a month)	8.1	8.0	14.2
Fixed-broadband sub-basket (\$ a month)	26.7	29.0 7.3	25.2 10.4
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		14.5	10.4
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
Applications			
Online service index (0-1, 1=highest presence)	0.69		0.67
Secure Internet servers (per million people)	529.7	932.1	1,194.6

Sint Maarten (Dutch part)

Latin America & Caribbean

	Countr	Country data	
	2010	2015	group 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 %) Adult literacy rate (% ages 15 and older)			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)			
Sector efficiency and capacity			2.5
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			2.5 18.8
			10.0
Sector performance Access Fixed-telephone subscriptions (per 100 people)			41.2
Mobile-cellular telephone subscriptions (per 100 people)	 155.2		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			
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			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)	 14.3	 13.1	11.2 32.0
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
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Slovak Republic

Europe & Central Asia

2010 2015 2015 Economic and social context Population (millions) 5 5 1,187 Urban population (% of total) 55 54 81 GNIP er capita, World Bank Attas method (\$) 17,590 17,310 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 4.4 2.2 1.5 Adult literacy rate (% ages 15 and older) 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) P C C Internet service P C C C C C Sector efficiency and capacity T E E E E E E E E E E E E E E E E E E E <td< th=""><th></th><th>Counti</th><th colspan="2">Country data</th></td<>		Counti	Country data	
Population (millions) 5 5 1,187 Urban population (% of total) 55 54 81 GNI per capital, World Bank Atlas method (\$) 17,590 17,310 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 4.4 2.2 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 82 82 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) Mode C C Mobile telephone service P C Internet service P C Internet service P C Internet service P C Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No Sector performance Access Fixed-telelephone sub		2010	2015	group 2015
Urban population (% of total) 55 54 81 GNI per capita, World Bank Atlas method (\$) 17,550 17,310 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 4.4 2.2 1.5 Adult literacy rate (% ages 15 and older) 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 Wixed Level of competition (competition, partial comp., monopoly) Internet service P 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 No Sector efficiency and capacity Telecommunications investment (% of revenue) 18.1 18.7 18.8 Sector performance A A Rege Res. 18.1 18.7 18.8 Sector performance A <td< td=""><td>Economic and social context</td><td></td><td></td><td></td></td<>	Economic and social context			
GNI per capita, World Bank Atlas method (\$) 17,590 17,310 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 4.4 2.2 1.5 Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%) 82 82 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) P C International gateway(s) P C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No Sector performance Access Elecommunications revenue (% of GDP) 2.9 2.2 2.5 Telecommunications revenue (% of GDP) 2.0 15.9 41.2 Mobile-cellular telephone subscriptions (per 100 people) 106.1 23.3 31.0 Households with a computer (%) 72.2 85.2 ^a				, -
GDP growth, 2005-10 and 2010-15 (avg. annual %) 4.4 2.2 1.5 Adult literacy rate (% ages 15 and older) 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 Mixed Level of competition (competition, partial comp., monopoly) P C C International gateway(s) Mixed A A Mobile telephone service P 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) 2.9 2.2 2.5 Fixed-telephone subscriptions (per 100 people) 10.1 12.3 31.0 Households with a computer (%) T2.2 85.2 83.2 Households with internet access at home (%) 67.5 78.8ª 85.0 Us				
Adult literacy rate (% ages 15 and older)				,
Gross primary, secondary, and tertiary school enrollment (%)828295Sector structureSeparate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)PCInternational gateway(s)PCMobile telephone servicePCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityTelecommunications revenue (% of GDP)2.92.22.5Telecommunications investment (% of revenue)18.118.718.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)20.215.941.2Mobile-cellular telephone subscriptions (per 100 people)109.0122.3124.5Fixed-telephone subscriptions (per 100 people)16.123.331.0Households with a computer (%)67.578.885.0UsageInt'l. voice traffic, total (minutes/subscription/month)11.213.6Domestic mobile traffic (minutes/subscription/month)11.213.414.2Int'l. voice traffic, total (minutes/subscription/month)11.312.9.6195.9Individuals using the Internet (%)699399International Internet bandwidth (bit/s per Internet user)12.15517.240134.761<		4.4	2.2	1.5
Separate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)International gateway(s)PCMobile telephone servicePCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityItelecommunications revenue (% of GDP)2.92.22.5Felecommunications investment (% of revenue)18.118.718.8Sector performanceAAAAccessFixed-telephone subscriptions (per 100 people)109.0122.3124.5Fixed-belphone subscriptions (per 100 people)16.123.331.0Households with a computer (%)72.285.2*83.2Households with a computer (%)75.778.8*85.0UsageInt'l. voice traffic, total (minutes/subscription/month)11.213.6.Int'l. voice traffic, total (minutes/subscription/month)11.213.6.Domestic mobile traffic (minutes/subscription/month)11.213.414.2Mobile-cellular sub-basket (\$ a month)38.213.414.2Fixed-broadband sub-basket (\$ a month)25.916.625.2Mobile-cellular sub-basket (\$ a month)21.211.114.4International Internet bandwidth (bit/s per Internet user)12.211.11		82	82	
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TradeICT goods exports (% of total goods exports)19.117.69.5ICT goods imports (% of total goods imports)15.614.511.2ICT service exports (% of total service exports)19.929.832.0Applications0.350.490.67				
ICT goods exports (% of total goods exports)19.117.69.5ICT goods imports (% of total goods imports)15.614.511.2ICT service exports (% of total service exports)19.929.832.0Applications0.350.490.67	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	21.2	11.1	14.4
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 0.35 0.49 0.67	Trade			
ICT service exports (% of total service exports) 19.9 29.8 32.0 Applications 0.35 0.49 0.67				
Applications Online service index (0-1, 1=highest presence) 0.35 0.49 0.67				
Online service index (0-1, 1=highest presence)0.350.490.67	ICI service exports (% of total service exports)	19.9	29.8	32.0
Online service index (0-1, 1=highest presence)0.350.490.67	Applications			
Secure Internet servers (per million people) 128.5 392.5 1,194.6		0.35		0.67
	Secure Internet servers (per million people)	128.5	392.5	1,194.6

Slovenia

Europe & Central Asia

	Count	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 (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	50 24,540 1.5	50 22,610 0.3	81 41,366 1.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	 95	100 98	 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 C	
Internet service Foreign ownership (not allowed, restricted, allowed)	C A	C A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.2	2.1	2.5
Telecommunications investment (% of dbr)	18.7	22.9	18.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	44.3 103.3	36.2 113.2	41.2 124.5
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	22.9 70.5	27.6	31.0 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	10.1	
Domestic mobile traffic (minutes/subscription/month)	140.2 70.0		 195.9
Individuals using the Internet (%)	70.0	73.1	81.0
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	7.7	14.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	34.2 15.4	21.1 8.9	25.2 10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	14.1	7.7	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 Online service index (0-1, 1=highest presence)	0.40	0.43	0.67
Secure Internet servers (per million people)	303.6	806.8	1,194.6

Solomon Islands

East Asia & Pacific	Lower middle incom		
	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	1,940	2,035
GDP growth, 2005-10 and 2010-15 (avg. annual %)	4.3	4.4	5.4
Adult literacy rate (% ages 15 and older)			
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		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access	1.6	1.3	3.5
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	21.9	72.7	90.5
Fixed-broadband subscriptions (per 100 people)	0.5	0.2	1.9
Households with a computer (%)	3.8ª	6.7	
Households with Internet access at home (%)	2.9ª	6.34	
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	10.04	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	15.6	6.9
Fixed-broadband sub-basket (\$ a month)	259.2	275.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		31.6	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		72.6	10.0
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	
	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 5.4
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		С	
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	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)			 48.9
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 1.3ª	 1.8ª	
	1.5	1.0	5.5
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	

South Africa

Sub-Saharan Africa	Upper middle income		
	Count	ry data	Upper middle- 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 (%)	51 62 6,250 2.9 93	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 P C C R ed) A	Yes Mixed M 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 23.4 50.6	
Usage Int'I. 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	0.39 130.0	0.37 34.7

South Sudan

Sub-Saharan Africa

Low income

Groups group 2010 2015 2015 Economic and social context population (millions) 10 12 638 ONIP or capita, World Bank Atlas method (\$) 1,060 790 620 ODP 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 Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VolP (banned, closed, no framework, allowed) C C C Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.3 10.2* Mobile cellular telephone subscription		Country	Country data	
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 Mobile telephone service International gateway(S) Mobile telephone service Foreign ownership (not allowed, restricted, allowed) Telecommunications revenue (% of GDP) 2.9 Telecommunications investment (% of revenue) 21.1 Sector performance Access				
Urban population (% of total) 18 19 31 GNI per capita, World Bank Attas method (\$) 1,060 790 620 GDP growth, 2005-10 and 2010-15 (avg. annual %) 111. 5.4 Adult literacy rate (% ages 15 and older) 27 32 Gross primary, secondary, and tertiary school enrollment (%) 60 Sector structure Sector structure No No Status of main fixed-line telephone operator Mixed 60 Level of competition, competition, partial comp., monopoly) Internet service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) C C Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.3 Mobile-cellular telephone subscription/month) 4.3 Internet access at home (%) <t< td=""><td>Economic and social context</td><td></td><td></td><td></td></t<>	Economic and social context			
GNI per capita, World Bark 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 Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) C C C Sector performance Access Fixed-telephone subscriptions (per 100 people) 10.4 23.9 Fixed-telephone subscriptions (per 100 people) 14.4 23.9 60.0 Mobile-cellular telephone subscription/month) 4.3	Population (millions)	10	12	638
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 <	Urban population (% of total)		19	31
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 No Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) Internet service Poreign 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 0.3 Households with a computer (%) 4.0 ^a 11.7 ^a 4.8 Households with nemet access at home (%) 3.0 ^a 11.2 ^a		1,060		
Gross primary, secondary, and tertiary school enrollment (%) 60 Sector structure Separate telecommunications/ICT regulator No No Status of main fixed-line telephone operator Mixed Mobile telephone service 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 C Sector efficiency and capacity Telecommunications investment (% of GDP) 2.9 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.3 Mobile-cellular telephone subscriptions (per 100 people) 0.0 1.1.*a 4.8 Households with a computer (%) 3.0*a <				5.4
Sector structure No No Sector structure No No Separate telecommunications/ICT regulator Mixed . Level of competition (competition, partial comp., monopoly) 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 Access Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0 ^a 11.7 ^a 4.8 Households with Internet access at home (%) 3.0 ^a 11.2 ^a 7.1 Usage Int'L voice traffic, total (minutes/subscription/month) 4.3 Usage				
Separate telecommunications/ICT regulator No No Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) International gateway(s) 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 0.3 Households with a computer (%) 4.0 ^a 11.7 ^a 4.8 Households with Internet access at home (%) 3.0 ^a 11.2 ^a 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 6.7 42.1 48.9				
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) C C Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 Sector performance Access Fixed-broadband subscriptions (per 100 people) 0.0 0.0 0.3 Mobile-cellular telephone subscriptions (per 100 people) 0.4 0.0 0.3 Households with a computer (%) 4.0a 11.7ª 4.8 Households with Internet access at home (%) 3.0a 11.2ª 7.1 Usage Int'. voice traffic, total (minutes/subscription/month) 6.7 42.1 48.9 Individuals using the Internet (%) 7.0a <t< td=""><td></td><td>No</td><td>Na</td><td></td></t<>		No	Na	
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) C C C Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications revenue (% 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) 0.4 0.0 0.0 1.7ª Households with a computer (%) 4.0ª 11.7ª 4.8 Households with Internet access at home (%) 3.0ª 11.2ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.3 Individuals using the Internet (%) 7.0ª 17.9ª 9.5 Quality Population covered by at least a 3G mobile network (%) 20ª 51 International Internet bandwidth (bit/s per Internet user) 4 24.245 Affordability			INO	
International gateway(s) Mobile telephone service Internet service Reg. treatment of VoIP (banned, closed, no framework, allowed) C C Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.9 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.4 0.0 0.0 Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0 ^a 11.7 ^a 4.8 Households with Internet access at home (%) 3.0 ^a 11.2 ^a 7.1 Usage Individuals using the Internet (%) 7.0 ^a 17.9 ^a 9.5 Quality Mobile-cellular sub-basket (\$ a month) 7.7 33.6 Mobile-cellular sub-baske		mixea		
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 60.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 10.4 23.9 60.0 0.0 0.3 Households with a computer (%) 4.0 ^a 11.7 ^a 4.8 4.8 Households with Internet access at home (%) 3.0 ^a 11.2 ^a 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.3 Int'l. voice traffic, total (minutes/subscription/month) 6.7 42.1 48.9 Individuals using the Internet (%) 7.0 ^a 17.9 ^a 9.5 Quality Population covered by at least a 3G mobil				
Internet serviceForeign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)CCSector efficiency and capacity2.9Telecommunications revenue (% of GDP)2.9Telecommunications investment (% of revenue)21.1Sector performanceAccessFixed-telephone subscriptions (per 100 people)0.00.0Mobile-cellular telephone subscriptions (per 100 people)0.00.0Noseholds with a computer (%)4.0a11.7aHouseholds with Internet access at home (%)3.0a11.2aT.1UsageIntividuals using the Internet (%)7.0a17.9aPopulation covered by at least a 3G mobile network (%)20aInternational Internet bandwidth (bit/s per Internet user)428AffordabilityMobile-cellular sub-basket (\$ a month)7.733.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)TradeICT goods exports (% of total goods exports)ICT goods imports (% of total goods exports)ICT goods imports (% of total goods imports)ICT goods imp				
Foreign ownership (not allowed, restricted, allowed)Reg. treatment of VoIP (banned, closed, no framework, allowed)CCSector efficiency and capacityTelecommunications revenue (% of GDP)2.9Telecommunications investment (% of revenue)21.1Sector performance21.1Access23.960.0Fixed-telephone subscriptions (per 100 people)0.00.00.00.3Households with a computer (%)4.0ª11.7ª4.8Households with a computer (%)3.0ª11.2ª7.1UsageInt'l. voice traffic, total (minutes/subscription/month)4.3Domestic mobile traffic (minutes/subscription/month)4.3Individuals using the Internet (%)20ª51International Internet bandwidth (bit/s per Internet user)4284.245AffordabilityMobile-cellular sub-basket (\$ a month)7.09.4Fixed-broadband sub-basket (\$ a month)7.733.6Mobile-bband, prepaid handset-based, 500 MB (\$ a month)20.38.0Mobile-bband, prepaid handset-based, 500 MB (\$ a month)TradeICT goods seports (% of total goods exports)				
Reg. Treatment of VoIP (banned, closed, no framework, allowed) C C Sector efficiency and capacity 2.9 Telecommunications revenue (% of GDP) 2.1.1 Sector performance 21.1 Sector performance 23.9 .0. Mobile-cellular telephone subscriptions (per 100 people) 14.4 23.9 60.0 Nobile-cellular telephone subscriptions (per 100 people) 14.4 23.9 60.0 Nouseholds with a computer (%) 4.0a 11.7a 4.8 Households with Internet access at home (%) 3.0a 11.2a 7.1 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 (%) 20a 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.0<				
Telecommunications revenue (% of GDP) 2.9 Telecommunications investment (% of revenue) 21.1 Sector performance Access 21.1 Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 14.4 23.9 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0a 11.7a 4.8 Households with Internet access at home (%) 3.0a 11.2a 7.1 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 17.9a 9.5 Quality 20a 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.7 <	• • • • •			
Telecommunications revenue (% of GDP) 2.9 Telecommunications investment (% of revenue) 21.1 Sector performance Access 21.1 Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 14.4 23.9 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0a 11.7a 4.8 Households with Internet access at home (%) 3.0a 11.2a 7.1 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 17.9a 9.5 Quality 20a 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.7 <	Sector efficiency and canacity			
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 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0ª 11.7ª 4.8 Households with Internet access at home (%) 3.0ª 11.2ª 7.1 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 17.9ª 9.5 Quality Population covered by at least a 3G mobile network (%) 20ª 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.7 33.6 Mobile-cellular sub-basket (\$ a month) 7.7 33.6 Mobile-b'band, prepaid handset-based, 1 GB (\$ a month) 20.3 <td></td> <td></td> <td>2.9</td> <td></td>			2.9	
Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 14.4 23.9 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0ª 11.7ª 4.8 Households with Internet access at home (%) 3.0ª 11.2ª 7.1 Usage Int'. voice traffic, total (minutes/subscription/month) 6.7 42.1 48.9 Individuals using the Internet (%) 7.0ª 17.9ª 9.5 Quality Population covered by at least a 3G mobile network (%) 20ª 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.0 9.4 Fixed-broadband sub-basket (\$ a month) 7.7 33.6 Mobile-cellular sub-basket (\$ a month) 7.7 33.6 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)				
Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 14.4 23.9 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0ª 11.7ª 4.8 Households with Internet access at home (%) 3.0ª 11.2ª 7.1 Usage Int'. voice traffic, total (minutes/subscription/month) 6.7 42.1 48.9 Individuals using the Internet (%) 7.0ª 17.9ª 9.5 Quality Population covered by at least a 3G mobile network (%) 20ª 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.0 9.4 Fixed-broadband sub-basket (\$ a month) 7.7 33.6 Mobile-cellular sub-basket (\$ a month) 7.7 33.6 Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	Sector performance			
Fixed-telephone subscriptions (per 100 people) 0.0 0.0 0.9 Mobile-cellular telephone subscriptions (per 100 people) 14.4 23.9 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0a 11.7a 4.8 Households with Internet access at home (%) 3.0a 11.2a 7.1 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 17.9a 9.5 Quality	-			
Mobile-cellular telephone subscriptions (per 100 people) 14.4 23.9 60.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.0 0.3 Households with a computer (%) 4.0 ^a 11.7 ^a 4.8 Households with Internet access at home (%) 3.0 ^a 11.2 ^a 7.1 Usage Int1. voice traffic, total (minutes/subscription/month) 4.3 . . Domestic mobile traffic (minutes/subscription/month) 6.7 42.1 48.9 Individuals using the Internet (%) 7.0 ^a 17.9 ^a 9.5 Quality Population covered by at least a 3G mobile network (%) 20 ^a 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.7 33.6 Mobile-cellular 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) Trade		0.0	0.0	0.9
Households with a computer (%)4.0a11.7a4.8Households with laternet access at home (%)3.0a11.7a4.8Households with laternet access at home (%)3.0a11.7a4.8Households with laternet access at home (%)3.0a11.7a4.8Int'l. voice traffic, total (minutes/subscription/month)4.3Domestic mobile traffic (minutes/subscription/month)6.742.148.9Individuals using the Internet (%)7.0a17.9a9.5QualityPopulation covered by at least a 3G mobile network (%)20a51International Internet bandwidth (bit/s per Internet user)4284,245AffordabilityMobile-cellular sub-basket (\$ a month)7.09.4Fixed-broadband sub-basket (\$ a month)7.733.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)20.38.0Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)TradeICT goods exports (% of total goods exports)ICT service exports (% of total service exports)ApplicationsOnline service index (0-1, 1=highest presence)0.140.010.11		14.4	23.9	60.0
Households with Internet access at home (%) 3.0° 11.2° 7.1 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 (%) 7.0° 17.9° 9.5 Quality Population covered by at least a 3G mobile network (%) 20° 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, prepaid computer-based, 1 GB (\$ a month) 20.3 8.0 Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) 20.4 Online service index (0-1, 1=highest presence) 0.14 0.01		0.0	0.0	0.3
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 (%) 7.0° 17.9° 9.5 Quality Population covered by at least a 3G mobile network (%) 20° 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.0 9.4 Fixed-broadband sub-basket (\$ a month) 7.7 33.6 Mobile-cellular 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 service exports (% of total service exports) Online service index (0-1, 1=highest presence) 0.14 0.01 0.11 <td>Households with a computer (%)</td> <td>4.0ª</td> <td>11.7ª</td> <td>4.8</td>	Households with a computer (%)	4.0ª	11.7ª	4.8
Int'l. voice traffic, total (minutes/subscription/month)4.3Domestic mobile traffic (minutes/subscription/month)6.742.148.9Individuals using the Internet (%)7.0°17.9°9.5QualityPopulation covered by at least a 3G mobile network (%)20°51International Internet bandwidth (bit/s per Internet user)4284,245Affordability7.0°9.4Fixed-broadband sub-basket (\$ a month)7.733.6Mobile-cellular sub-basket (\$ a month)7.733.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)42.910.8TradeICT goods exports (% of total goods exports)ICT service exports (% of total goods imports)3.4ICT service exports (% of total service exports)ApplicationsOnline service index (0-1, 1=highest presence)0.140.010.11	Households with Internet access at home (%)	3.0ª	11.2ª	7.1
Domestic mobile traffic (minutes/subscription/month)6.7 7.0°42.1 4.8.9 17.9°48.9 9.5Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user).20° 451 28Affordability Mobile-cellular sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, prepaid handset-based, 1 GB (\$ a month).7.0 9.49.4Trade ICT goods exports (% of total goods exports) ICT service exports (% of total goods imports)Applications Online service index (0-1, 1=highest presence)0.140.010.110.11	Usage			
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Quality Population covered by at least a 3G mobile network (%) 20° 51 International Internet bandwidth (bit/s per Internet user) 4 28 4,245 Affordability 7.0 9.4 Fixed-broadband sub-basket (\$ a month) 7.7 33.6 Mobile-b'band, prepaid handset-based, 500 MB (\$ 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 service exports (% of total service exports) 20.4 Applications 0.14 0.01 0.11	Domestic mobile traffic (minutes/subscription/month)	6.7	42.1	48.9
Population covered by at least a 3G mobile network (%)20³51International Internet bandwidth (bit/s per Internet user)4284,245Affordability Mobile-cellular sub-basket (\$ a month)7.09.4Fixed-broadband sub-basket (\$ a month)7.733.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)20.38.0Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)42.910.8Trade ICT goods exports (% of total goods exports)ICT goods imports (% of total goods imports)3.4ICT service exports (% of total service exports)20.4Applications Online service index (0-1, 1=highest presence)0.140.010.11	Individuals using the Internet (%)	7.0ª	17.9ª	9.5
International Internet bandwidth (bit/s per Internet user)4284,245Affordability Mobile-cellular sub-basket (\$ a month)7.09.4Fixed-broadband sub-basket (\$ a month)7.733.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)20.38.0Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)42.910.8Trade ICT goods exports (% of total goods exports)ICT goods imports (% of total goods imports)3.4ICT service exports (% of total service exports)20.4Applications Online service index (0-1, 1=highest presence)0.140.010.11	Quality			
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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) 20.3 8.0 IND B (\$ a month) 42.9 10.8 Trade ICT goods exports (% of total goods exports) ICT service exports (% of total service exports) 20.4 Applications 0.14 0.01 0.11	Affordability			
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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 0.14 0.01 0.11				
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 0.14 0.01 0.11				
ICT goods exports (% of total goods exports) 3.4 ICT service exports (% of total service exports) 20.4 Applications 0.14 0.01 0.11	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		42.9	10.8
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ICT service exports (% of total service exports) 20.4 Applications 0.14 0.01 0.11	o i i i i			
Applications Online service index (0-1, 1=highest presence) 0.14 0.01 0.11				3.4
Online service index (0-1, 1=highest presence)0.140.010.11	ICT service exports (% of total service exports)		20.4	
	Applications			
Secure Internet servers (per million people) 0.2 1.5		0.14		
	Secure Internet servers (per million people)		0.2	1.5

Spain

Europe & Central Asia

High income

2010 2015 2015 Economic and social context Population (millions) 47 46 1,187 Urban population (% of total) 78 80 81 86 GNI per capita, World Bank Attas method (\$) 32,130 28,520 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.9 -0.4 1.5 Adult literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enrollment (%) 104 109 95 Sector structure Separate telecommunications/ICIT 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 International gateway(s) C </th <th></th> <th>Count</th> <th colspan="2">Country data</th>		Count	Country data	
Population (millions) 47 46 1,187 Urban population (% of total) 78 80 81 GNI per capital, World Bank Atlas method (\$) 32,130 28,520 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 0.9 -0.4 1.5 Adut literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enrollment (%) 104 109 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) International gateway(s) C C C Mobile telephone service C C C C Internet service Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 1.8 2.5 Telecommunications investment (% of revenue) 11.3 107.9 124.5 Fixed-broadband subscriptions (pe		2010	2015	group 2015
Urban population (% of total) 78 80 81 GNI per capita, World Bank Atlas method (\$) 32,130 28,520 41,366 GDP growth, 2005-10 and 2010-15 (avg. annual %) 0.9 -0.4 1.5 Adult literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enrollment (%) 104 109 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Private Private Private Level of competition (competition, partial comp., monopoly) Internet service C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 1.8 2.5 Telecohmunications investment (% of revenue) 14.7 24.8 18.8 Sector performance A A A A A Sector performance A 7.5.9 8.2 A A </td <td></td> <td>47</td> <td>46</td> <td>1 187</td>		47	46	1 187
GNI per capita, World Bank Atlas method (\$) 32,130 28,520 41,366 GDP growth, 2005-10 and 2010-15 (avg, annual %) 0.9 -0.4 1.5 Adult literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enrollment (%) 104 109 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Sector structure C C C International gateway(s) C C C International gateway(s) C C C C C International gateway(s) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 1.8 2.5 Telecommunications revenue (% of GDP) 2.5 1.8 3.10 Households with a computer (%) 68.7 75.9 83.2 Helcommunications revenue (% of GDP) 2.1 2.8.3 31.0 Households with a computer (%) 68.7 75.9				,
Adult literacy rate (% ages 15 and older) 98 98 Gross primary, secondary, and tertiary school enrollment (%) 104 109 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) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A 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 Xecess Xecess Xecess Fixed-broadband subscriptions (per 100 people) 11.3 107.9 124.5 Xecess Intl. voice traffic, total (minutes/subscription/month) Households with a computer (%) 65.8 78.7 81.0 Xeces Xeces Xeces Individuals using the Internet access at home (%)		32,130	28,520	41,366
Gross primary, secondary, and tertiary school enrollment (%)10410995Sector structure Separate telecommunications/ICT regulatorYesYesYesStatus of main fixed-line telephone operatorPrivatePrivatePrivateLevel of competition (competition, partial comp., monopoly) International gateway(s)CCCMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityImage: Communications revenue (% of GDP)2.51.82.5Telecommunications investment (% of revenue)14.724.818.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)43.740.641.2Mobile-cellular telephone subscriptions (per 100 people)111.3107.9124.5Fixed-telephone subscriptions (per 100 people)23.128.331.0Households with a computer (%)68.775.983.2Households with nternet access at home (%)59.178.785.0UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)115.8130.8195.9Individuals using the Internet (%)95999999International Internet bandwidth (bit/s per Internet user)55,944105,006<	GDP growth, 2005-10 and 2010-15 (avg. annual %)	0.9	-0.4	1.5
Sector structure Yes Yes Yes Separate telecommunications/ICT regulator Private Private Private Level of competition (competition, partial comp., monopoly) Internet service 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) 2.5 1.8 2.5 Telecommunications investment (% of revenue) 14.7 24.8 18.8 Sector performance A A A Access Fixed-telephone subscriptions (per 100 people) 11.3 107.9 124.5 Fixed-broadband subscriptions (per 100 people) 23.1 28.3 31.0 Households with a tempter (%) 68.7 75.9 83.2 Households with a tempter (%) 59.1 78.7 85.0 Usage Int't voice traffic, total (minutes/subscription/month) Int't voice traffic, total dimites/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 serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)AASector efficiency and capacityTelecommunications revenue (% of GDP)2.51.8Telecommunications revenue (% of GDP)2.51.82.5Telecommunications investment (% of revenue)14.724.818.8Sector performanceAAAAccessFixed-broadband subscriptions (per 100 people)111.3107.9124.5Fixed-broadband subscriptions (per 100 people)23.128.331.0Households with a computer (%)68.775.983.2Households with Internet access at home (%)59.178.785.0UsageInternational Internet (%)65.878.781.0QualityPopulation covered by at least a 3G mobile network (%)959999International Internet bandwidth (bit/s per Internet user)55.944105.006134.761AffordabilityMobile-cellular sub-basket (\$ a month)37.37.810.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)37.37.810.4Mobile-cb'band, postpaid computer-based, 1 GB (\$ a m	Sector structure			
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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 11.3 107.9 124.5 Fixed-telephone subscriptions (per 100 people) 11.3 107.9 124.5 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) 115.8 130.8 195.9 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) 55,944 105,006 134.761 Affordability				
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QualityPopulation covered by at least a 3G mobile network (%)959999International Internet bandwidth (bit/s per Internet user)55,944105,006134,761AffordabilityMobile-cellular sub-basket (\$ a month)47.031.614.2Fixed-broadband sub-basket (\$ a month)30.926.725.2Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.37.810.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)31.114.414.4TradeICT goods exports (% of total goods exports)2.21.19.5ICT goods imports (% of total goods imports)6.74.611.2ICT service exports (% of total service exports)27.132.0Applications0.770.940.67				
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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 0.94 0.67	international internet bandwidth (bit/s per internet user)	55,944	105,006	134,761
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 Online service index (0-1, 1=highest presence) 0.77 0.94 0.67	Affordability			
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)37.37.810.4Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)31.114.414.4TradeICT goods exports (% of total goods exports)2.21.19.5ICT goods imports (% of total goods imports)6.74.611.2ICT service exports (% of total service exports)27.132.0Applications0.770.940.67		47.0	31.6	14.2
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)31.114.414.4Trade ICT goods exports (% of total goods exports)2.21.19.5ICT goods imports (% of total goods imports)6.74.611.2ICT service exports (% of total service exports)27.132.0Applications Online service index (0-1, 1=highest presence)0.770.940.67				
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 0.94 0.67				
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 0.94 0.67	Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	31.1	14.4	14.4
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 0.94 0.67	Trade			
ICT service exports (% of total service exports) 27.1 32.0 Applications 0.77 0.94 0.67	ICT goods exports (% of total goods exports)	2.2	1.1	9.5
ApplicationsOnline service index (0-1, 1=highest presence)0.770.940.67	ICT goods imports (% of total goods imports)	6.7		
Online service index (0-1, 1=highest presence) 0.77 0.94 0.67	ICT service exports (% of total service exports)		27.1	32.0
Online service index (0-1, 1=highest presence) 0.77 0.94 0.67	Annlications			
		0.77	0.94	0.67
		230.9	362.5	1,194.6

Sri Lanka

South Asia

Lower middle income

			Lower
			middle- income
	Country	y data 2015	group 2015
Example and exclution test	2010	2015	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 C	A A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	L	A	
Sector efficiency and capacity	1 7	1 7	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	1.7 33.4	1.7	
	55.4		
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	17.2	12.0	3.5
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	24.24	
Households with Internet access at home (%)	5.9ª	18.14	
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	30.04	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	0.00	0.67	0.00
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

St. Kitts and Nevis

Latin America & Caribbean

	Count	Country data		Country data		i Country data	
	2010	2015	group 2015				
Economic and social context Population (millions) Urban population (% of total)	0.05	0.06	1,187				
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 (%)	12,650 0.7 75	15,560 3.6 85	41,366 1.5 95				
	15	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	No Private 						
Internet service							
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) 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	131.8 29.6					
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	56.4	 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
		Country data	
	2010	2015	2015
Economic and social context			
Population (millions)	0.18		/
Urban population (% of total)	18		64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	6,600 1.6	7,390 0.2	8,186 4.5
Adult literacy rate (% ages 15 and older)	1.0	0.2	4.5
Gross primary, secondary, and tertiary school enrollment (%)			81
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	С	
Mobile telephone service	С	С	
Internet service	C	C A	
Foreign ownership (not allowed, restricted, allowed)	A) No	A No	
Reg. treatment of VoIP (banned, closed, no framework, allowed) 110	INU	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	7.3	6.3	2.1
Telecommunications investment (% of revenue)	7.8		
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile collulat telephone subscriptions (aer 100 people)	21.1 111.7		
Mobile-cellular telephone subscriptions (per 100 people)			
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	11.6 38.6		
Households with a computer (%)	26.5	39.7	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	30.1		
Domestic mobile traffic (minutes/subscription/month)	102.2		
Individuals using the Internet (%)	43.3	52.4	52.1
Quality Population covered by at least a 3G mobile network (%)	0	65	69
International Internet bandwidth (bit/s per Internet user)		134,277	
Affordability			
Mobile-cellular sub-basket (\$ a month)	22.2	27.5	8.5
Fixed-broadband sub-basket (\$ a month)	29.3	36.2	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		14.8	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		17.0	11.1
Trade ICT goods exports (% of total goods exports)	4.2	11.7	15.7
ICT goods imports (% of total goods imports)	4.2 3.9		
ICT service exports (% of total service exports)	8.6		
Applications			
Online service index (0-1, 1=highest presence)	0.11	0.24	0.37

St. Martin (French part)

Latin America & Caribbean

	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			41.2
Fixed-telephone subscriptions (per 100 people)			41.2 124.5
Mobile-cellular telephone subscriptions (per 100 people) 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
			101,101
Affordability			
Mobile-cellular sub-basket (\$ a month)			14.2
Fixed-broadband sub-basket (\$ a month)			25.2 10.4
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)			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)	98.0	31.5	1,194.6

St. Vincent and the Grenadines

Latin America & Caribbean

Upper middle income

			Upper middle- income
		Country data 2010 2015	
Economic and social context			2015
Population (millions)	0.11	0.11	2,594
Urban population (% of total)	49	51	64
GNI per capita, World Bank Atlas method (\$)	6,030	6,670	8,186
GDP growth, 2005-10 and 2010-15 (avg. annual %)	1.4	1.0	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	C	
Mobile telephone service	С	С	
Internet service	C A	C A	
Foreign ownership (not allowed, restricted, allowed)		No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	INU	INU	
Sector efficiency and capacity	7.3	6.1	2.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	7.5 8.2	6.1 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	49.4	52.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	34.7	31.8	
Domestic mobile traffic (minutes/subscription/month)	82.2	92.0	
Individuals using the Internet (%)	33.7ª	51.8	52.1
Quality			
Population covered by at least a 3G mobile network (%)	0	100	
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	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		14.8	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		18.5	11.1
	1 4		157
ICT goods exports (% of total goods exports)	1.4 3.7		15.7 14.4
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	26.6	 25.1	14.4 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
	0		

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Sudan

Sub-Saharan Africa

Lower middle income

			Lower middle- income
	Country		group
	2010	2015	2015
Economic and social context			
Population (millions) ^D	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 59	5.4
Adult literacy rate (% ages 15 and older) ^b	 47	59 48	 68
Gross primary, secondary, and tertiary school enrollment (%)	47	40	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)	Р	Р	
Mobile telephone service	Р	Р	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	А	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	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	17.9ª	
Households with Internet access at home (%)	15.0ª	33.5ª	24.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	6.2	6.7	7.5
Domestic mobile traffic (minutes/subscription/month)	55.3	76.9	152.0
Individuals using the Internet (%)	16.7ª	26.6ª	28.6
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)	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
Annlingtions			
Applications Online service index (0-1, 1=highest presence)	0.16	0.29	0.26
Secure Internet servers (per million people)	0.10	0.23	7.4
occure internet servers (per minion people)	0.0	0.1	

Suriname

Latin America & Caribbean

Upper middle income

			Upper middle-
	Count	-	income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.52	0.54	2,594
Urban population (% of total)	66	66	64
GNI per capita, World Bank Atlas method (\$)	7,780 4.2	9,300 2.8	8,186 4.5
GDP growth, 2005–10 and 2010–15 (avg. annual %)	4.2 95	2.0 96	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	95	90	 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	C	
Mobile telephone service	C	C	
Internet service	C R	C R	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
	NO	110	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	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)	99.3	180.7	105.1
Fixed-broadband subscriptions (per 100 people)	2.9	9.5	15.4
Households with a computer (%)	29.0	45.24	
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)	69.8		2.3 173.1
Individuals using the Internet (%)	31.6	42.84	
Quality			
Population covered by at least a 3G mobile network (%)	12	80	
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)	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	0.1	0.0	15.7
ICT goods exports (% of total goods exports)	0.1 3.0	0.0 4.2	15.7 14.4
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	3.0 44.2	4.2 24.5	14.4 25.7
וטי שניאופי באטוונש (אי טו נטנמו שבואוני באטוונש)	74.2	2 4 .J	20.1
Applications			
Applications Online service index (0-1, 1=highest presence)	0.02	0.14	0.37

Swaziland

Sub-Saharan Africa Lower middle			ncome	
	Countr	Country data		
	2010	2015	group 2015	
Economic and social context	2010	2015	2015	
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)	М	М		
International gateway(s) Mobile telephone service	M	M		
Internet service	P	P		
Foreign ownership (not allowed, restricted, allowed)	No	No		
Reg. treatment of VoIP (banned, closed, no framework, allowe		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 0.3	73.2 0.5	90.5 1.9	
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.3 8.3ª	19.8ª		
Households with Internet access at home (%)	6.2ª	22.3ª		
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	30.4ª	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 17.9	14.3 5.8	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) 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				
Online service index (0-1, 1=highest presence)	0.00	0.13	0.26	
Secure Internet servers (per million people)	10.1	15.5	7.4	

Sweden

Europe & Central Asia

	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 (\$)	9 85 53,900	10 86 57,810	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 (%)	0.9 93		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	Mixed	
International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed)	C C A	C C A	
Reg. treatment of VoIP (banned, closed, no framework, allowed Sector efficiency and capacity Telecommunications revenue (% of GDP)) A 1.5		2.5
Telecommunications investment (% of revenue)	13.5	20.6	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 (%)	50.5 117.2 32.0 89.5 88.3	130.4 36.1	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 (%)	 162.7 90.0		 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	100 236,853	100 421,237	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)	13.0 34.5 <i>7.4</i> 14.6	43.7 5.8	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)	9.7 11.3 46.0	9.9	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.53 1,268.4	0.70 1,755.4	0.67 1,194.6

Switzerland

Europe & Central Asia

	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)	8 74 77,360 2.0	8 74 84,180 1.5	1,187 81 41,366 1.5
Gross primary, secondary, and tertiary school enrollment (%)	86	88	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 C C C A) A	Yes Mixed C C C A A	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.3 15.2	2.3 20.2	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 (%)	62.7 123.2 37.2 83.7 80.7		
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality	 82.3 83.9	 80.9 88.0	 195.9 81.0
Population covered by at least a 3G mobile network (%)	96 152 211		99 134 761
International Internet bandwidth (bit/s per Internet user) 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)	45.2 32.7 22.4 40.5	275,957 34.3 35.3 19.7 40.5	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)	1.6 5.9 21.5	4.1	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.44 1,867.6	0.50 3,100.0	0.67 1,194.6

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Syrian Arab Republic

Middle East & North Africa

Lower middle income

			Lower
	Country	/ data	middle- income
-	2010	2015	group 2015
Economic and social context			
Population (millions)	21	19	2,927
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s method (\$)	56 	58	39 2,035
GDP growth, 2005–10 and 2010–15 (avg. annual %)			5.4
Adult literacy rate (% ages 15 and older)		86	
Gross primary, secondary, and tertiary school enrollment (%)	73	54	68
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Public	Public	
International gateway(s)		М	
Mobile telephone service	Р	Р	
Internet service	Р		
Foreign ownership (not allowed, restricted, allowed)	No	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	 17.1	 5.1	
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	49.9	
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	7.5 152.0
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	83.3 20.7	64.6 30.0ª	
individuals using the internet (%)	20.1	50.0	20.0
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) ICT service exports (% of total service exports)	2.2 2.5		7.6 48.0
יטי שבייונים פאטונש (א טו נטנמו שפויונש פאטונש)	2.0		40.0
Applications	0.04	0.16	0.26
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.04	0.10	7.4
	0.2	0.0	

Tajikistan

Europe & Central Asia

Lower middle income

			Lower middle-
	Country	y data 2015	income group 2015
Economic and social context	2020	2020	2020
Population (millions)	8	8	2.927
Urban population (% of total)	27	27	2,521
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	
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, allowed)	A	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	
Fixed-broadband subscriptions (per 100 people)	0.1	0.1	1.9
Households with a computer (%)	2.9ª	11.5	
Households with Internet access at home (%)	2.3ª	8.8	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)			152.0
Individuals using the Internet (%)	11.6ª	19.0	28.6
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	0.5	4.0	
Mobile-cellular sub-basket (\$ a month)	8.5 262 5	4.3	6.9
Fixed-broadband sub-basket (\$ a month)	362.5 15.4	11.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		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
ICT goods imports (% of total goods imports)			7.6
ICT service exports (% of total service exports)	 75.1	 6.0	48.0
Applications			
Online service index (0-1, 1=highest presence)	0.09	0.06	0.26
Secure Internet servers (per million people)	0.4	2.8	7.4
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
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	С	
Mobile telephone service	С	С	
Internet service	С	C	
Foreign ownership (not allowed, restricted, allowed)	R A	A No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	INU	
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 2.6ª	0.2	0.3
Households with a computer (%) Households with Internet access at home (%)	2.0ª 2.1ª	4.0ª 4.5ª	
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	
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		0.7	
Mobile-cellular sub-basket (\$ a month)	16.4 31.3	6.7 22.6	9.4
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	51.5 5.1	7.5	33.6 8.0
Mobile-b'band, postpaid computer-based, 300 MB (\$ 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

Thailand

East Asia & Pacific

Upper middle income

			Upper middle-
	Countr		income group
	2010	2015	2015
Economic and social context			
Population (millions)	67	68	2,594
Urban population (% of total)	44	50	64
GNI per capita, World Bank Atlas method (\$)	4,610	5,620	8,186
GDP growth, 2005–10 and 2010–15 (avg. annual %)	3.3 96	3.0 94	4.5
Adult literacy rate (% ages 15 and older) Gross primary, secondary, and tertiary school enrollment (%)	96 78	94 79	 81
	10	19	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)	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	ed) A	A	
Factor officiancy and consolty			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.1	2.3	2.1
Telecommunications investment (% of revenue)	17.3	22.3	18.8
	1110	22.0	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	10.3	7.9	17.3
Mobile-cellular telephone subscriptions (per 100 people)	108.0	125.8	
Fixed-broadband subscriptions (per 100 people)	4.9	9.2	15.4
Households with a computer (%)	22.8	29.5	48.7
Households with Internet access at home (%)	11.4	52.2	52.2
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		97	69
Population covered by at least a 3G mobile network (%)	10 701		
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	10.0	16.0	15.7
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			
Applications Online service index (0-1, 1=highest presence)	0.33	0.44	0.37

Timor-Leste

East Asia & Pacific

Lower middle income

Country data group 2010 2015 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 2,035 Adult iteracy rate (% ages 15 and older) 58 64 Gross primary, secondary, and tertiary school enrollment (%) 82 68 Sector structure Sector structure Sector structure Status of main fixed-line telephone operator Mixed Level of competition (competition, partial comp., monopoly) Internet service Internet service Reg. treatment of VoIP (banned, closed, no framework, allowed) B C Sector performance Access Fixed-treadband subscriptions (per 100 people) 0.3 0.2 3.5 Mobile-cellular telephone subscription/month) </th <th></th> <th></th> <th></th> <th>Lower middle- income</th>				Lower middle- income
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ICT service exports (% of total service exports) 48.0 Applications 0.13 0.20 0.26				7.6
Online service index (0-1, 1=highest presence) 0.13 0.20 0.26				48.0
Online service index (0-1, 1=highest presence) 0.13 0.20 0.26	Applications			
	Online service index (0-1, 1=highest presence)			
Secure Internet servers (per million people) 0.9 3.2 7.4	Secure Internet servers (per million people)	0.9	3.2	7.4

Togo

Sub-Saharan Africa

Low income

Co	ountry	/ data	Low- income
20	010	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 Pr	ublic	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	Р	Р	
Mobile telephone service	С	С	
Internet service	C R	C R	
Foreign ownership (not allowed, restricted, allowed)	A	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	~	NU	
Sector efficiency and capacity	9.9	8.5	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	9.9 30.6	0.5 10.1	
	00.0	10.1	
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	1.0	0.7	0.9
	41.3	64.9	60.0
Fixed-broadband subscriptions (per 100 people)	0.4	0.9	0.3
Households with a computer (%)	2.1ª	3.4ª	
Households with Internet access at home (%)	1.0	6.2ª	7.1
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	8.8	6.3	
	21.0	30.8	48.9
Individuals using the Internet (%)	3.0ª	7.1ª	9.5
Quality	0	50	54
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	~~ ~	10.0	
	20.9 65.6	13.3 37.7	9.4 33.6
	00.0	37.7 8.5	33.6 8.0
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	 30.9	8.5	10.8
Trade ICT goods exports (% of total goods exports)	0.2	0.0	
ICT goods imports (% of total goods imports)	5.1	1.3	3.4
	23.2	16.0	
Applications			
	0.07	0.11	0.11
Secure Internet servers (per million people)	1.9	6.3	1.5



East Asia & Pacific

Lower middle income

			Lower
	Countr	y data	middle- income group
	2010	2015	2015
Economic and social context			
Population (millions)	0.10	0.11	2,927
Urban population (% of total)	23	24	39
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	3,550 0.2	4,260 0.2	2,035 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	No	No	
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)	Ā	Ā	
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	3.5
Mobile-cellular telephone subscriptions (per 100 people)	52.2	65.6	90.5
Fixed-broadband subscriptions (per 100 people)	1.1	1.9	1.9
Households with a computer (%)	23.3ª	37.14	19.3
Households with Internet access at home (%)	10.0ª	39.54	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	 45.0ª	152.0 28.6
individuals using the internet (%)	10.0-	40.01	20.0
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)	62.3	32.2	14.3
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		8.2	5.8
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			10.0
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
Secure Internet servers (per million people)	19.2	9.4	7.4

Trinidad and Tobago

Latin America & Caribbean

	Count	ry data	High- income group
	2010	2015	2015
Economic and social context Population (millions)	1	1	1,187
Urban population (% of total)	9	8	81
GNI per capita, World Bank Atlas method (\$)	15,770	18,600	41,366
GDP growth, 2005-10 and 2010-15 (avg. annual %)	2.7	1.1	1.5
Adult literacy rate (% ages 15 and older)		99	
Gross primary, secondary, and tertiary school enrollment (%)			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	
Mobile telephone service	P P	C C	
Internet service Foreign ownership (not allowed, restricted, allowed)	P A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		No	
Sector efficiency and capacity	0.5	0.5	0.5
Telecommunications revenue (% of GDP)	2.5 8.7	2.5 9.2	2.5 18.8
Telecommunications investment (% of revenue)	0.7	9.2	10.0
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	22.1	20.1	41.2
Mobile-cellular telephone subscriptions (per 100 people)	142.6	157.7	124.5
Fixed-broadband subscriptions (per 100 people)	12.3 53.1ª	20.7	31.0
Households with a computer (%) Households with Internet access at home (%)	29.0		83.2 85.0
	20.0	00.0	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	20.9	18.4	
Domestic mobile traffic (minutes/subscription/month)	225.6 48.5	175.4 69.2ª	195.9 81.0
Individuals using the Internet (%)	40.0	09.24	61.0
Quality			
Population covered by at least a 3G mobile network (%)	75	75	99
International Internet bandwidth (bit/s per Internet user)	29,808	122,703	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	13.7	16.5	14.2
Fixed-broadband sub-basket (\$ a month)	12.5	21.8	25.2
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	21.3	26.9	10.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	15.4	8.8	14.4
Trade			
ICT goods exports (% of total goods exports)	0.1		9.5
ICT goods imports (% of total goods imports)	3.1		11.2
ICT service exports (% of total service exports)	6.5		32.0
Applications			
Online service index (0-1, 1=highest presence)	0.34	0.33	0.67
Secure Internet servers (per million people)	73.0	127.2	1,194.6
v · · · · · · /	-		

Tunisia

Middle East & North Africa

Lower middle income

			Lower middle-	
	Countr	-	group	
	2010	2015	2015	
Economic and social context				
Population (millions)	11	11	2,927	
Urban population (% of total)	66	67	39	
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	4,170 4.6	3,970 1.7	2,035 5.4	
Adult literacy rate (% ages 15 and older)	4.0	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)	Р	Р		
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)	С	A		
Sector efficiency and capacity	4.4	2.4		
Telecommunications revenue (% of GDP)	4.4 21.2	3.4 16.5		
Telecommunications investment (% of revenue)	21.2	10.5		
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	12.1	8.4	3.5	
Mobile-cellular telephone subscriptions (per 100 people)	104.5	129.9	90.5	
Fixed-broadband subscriptions (per 100 people)	4.5	4.3	1.9	
Households with a computer (%)	19.1	38.74	19.3	
Households with Internet access at home (%)	11.4	36.14	24.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	5.8	5.2	7.5	
Domestic mobile traffic (minutes/subscription/month)	61.7	151.8	152.0	
Individuals using the Internet (%)	36.8	48.5	28.6	
Quality	CE.	0.4		
Population covered by at least a 3G mobile network (%)	65 13,086	94 33,812	 10,372	
International Internet bandwidth (bit/s per Internet user)	15,060	33,012	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	5.7 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	

Turkey

Europe & Central Asia

Upper middle income

			Upper middle-	
	Countr	y data 2015	_ Broup	
	2010	2015	2015	
Economic and social context	70	70	0 50 4	
Population (millions)	72 71	79 73	2,594 64	
Urban population (% of total) GNI per capita, <i>World Bank Atla</i> s 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	1.0	
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		P		
Internet service	C	C		
Foreign ownership (not allowed, restricted, allowed)	No) No	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)) 100	No		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.0	1.9	2.1	
Telecommunications investment (% of revenue)	17.3	16.8	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 (%)	22.5 85.6 9.8 44.2 41.6	15.0 96.0 12.4 55.6 69.5	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 (%)	5.6 169.7 39.8	5.8 237.8 53.7	2.3 173.1 52.1	
Quality				
Population covered by at least a 3G mobile network (%)	0	954	69	
International Internet bandwidth (bit/s per Internet user)	13,577	59,034	26,098	
Affordability				
Mobile-cellular sub-basket (\$ a month)	43.9	18.2	8.5	
Fixed-broadband sub-basket (\$ a month)	19.2	8.8	15.5	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	16.2	5.1	7.7	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	11.1	7.3	11.1	
Trade	10	1.5	15.7	
ICT goods exports (% of total goods exports)	1.8 4.5	1.5 5.1	15.7 14.4	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.5 2.0	5.1 1.0	14.4 25.7	
Applications				
Online service index (0-1, 1=highest presence)	0.35	0.56	0.37	

Turkmenistan

Europe & Central Asia

Upper middle income

-			middle- income
	Country 2010	y data 2015	group 2015
Economic and social context			
Population (millions)	5	5	2,594
Urban population (% of total)	48	50	64
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005-10 and 2010-15 (avg. annual %)	4,110 10.5	7,510 10.5	8,186 4.5
Adult literacy rate (% ages 15 and older)	10.5	10.5	4.5
Gross primary, secondary, and tertiary school enrollment (%)		61	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	 C	 C	
Internet service			
Foreign ownership (not allowed, restricted, allowed)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			0.1
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'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 3.0ª	 15.0ª	2.3 173.1 52.1
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	 2,578		69 26,098
Affordability		4.0	0.5
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		4.9 14.6	8.5 15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)		8.6	7.7
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		15.7	11.1
Trade			
ICT goods exports (% of total goods exports)			15.7
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)		 	14.4 25.7
Applications			
Online service index (0-1, 1=highest presence)	0.03	0.09	0.37
Secure Internet servers (per million people)	0.2	0.7	34.7

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Turks and Caicos Islands

Latin America & Caribbean

	Countr	y data	High- income group
	2010	2015	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)	11.9	11.6	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			00
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)			99 134,761
international internet bandwidth (bit/s per internet user)			134,701
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 14.4
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			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)			32.0
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	419.4	291.2	1,194.6



East Asia & Pacific

Upper middle income

			Upper middle-
-	Country 2010	y data 2015	income group 2015
Economic and social context			
Population (millions)	0.01	0.01	2,594
Urban population (% of total)	55	60	64
GNI per capita, <i>World Bank Atlas</i> method (\$)	4,720 2.3	5,720 2.5	8,186 4.5
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	2.5	2.5	4.5
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	M	M	
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 Fixed-telephone subscriptions (per 100 people)	12.2	20.2	17.3
Mobile-cellular telephone subscriptions (per 100 people)	16.3	40.3	
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)			
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 25.0ª	 42.7	
individuals using the internet (%)	23.0-	42.1	J2.1
Quality Population covered by at least a 3G mobile network (%)			69
International Internet bandwidth (bit/s per Internet user)	1,628		26,098
Affordability			
Mobile-cellular sub-basket (\$ a month)		38.1	8.5
Fixed-broadband sub-basket (\$ a month)		40.2	15.5
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)			
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)			11.1
Trade			157
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)			15.7 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

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) 73 74 Gross primary, secondary, and tertiary school enrollment (%) 67 60 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 Internet service C C C Foreign ownership (not allowed, restricted, allowed) A A Sector efficiency and capacity T Telecommunications revenue (% of GDP) 3.1 <		Country	y data	Low- income
Population (millions) 33 39 638 Urban population (% of total) 14 16 31 GNI per capital, 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) 73 74 Gross primary, secondary, and tertiary school enrollment (%) 67 60 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 Mobile telephone service C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No Sector performance Access Image Image Image Nobile -cellular telephone subscriptions (per 100 people) 1.0 0.8 0.9 Mobil		2010	2015	
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) 73 74 Gross primary, secondary, and tertiary school enrollment (%) 67 60 Sector structure Sector structure Sector structure Sector structure Mixed Mixed Sevel of competition (competition, partial comp., monopoly) International gateway(s) 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 revenue (% of GDP) 3.1 Telecommunications investment (% of revenue) 15.9 Sector performance Access Fixed-telephone subscriptions (per 100 people) 1.0 0.8 0.9 Mobile-cellular telephone subscription (mon	Economic and social context			
GNI per capita, World Bark Atlas method (\$) 550 670 620 GIP growth, 2005-10 and 2010-15 (avg, annual %) 8.1 5.0 5.4 Adult literacy rate (% ages 15 and older) 73 74 Gross primary, secondary, and tertiary school enrollment (%) 67 60 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 International gateway(s) A Mobile cellular telephone service C C C C C Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A No Sector performance Access E Fixed-telephone subscriptions (per 100 people) 3.7. 50.4 60.0 Fixed-telephone subscriptions (per 100 people) 1.0 0.8	Population (millions)	33	39	638
GDP growth, 2005-10 and 2010-15 (avg. annual %) 8.1 5.0 5.4 Adult literacy rate (% ages 15 and older) 73 74 Gross primary, secondary, and tertiary school enrollment (%) 67 60 Sector structure Sector structure Mixed Mixed Mixed Level of competition (competition, partial comp., monopoly) C C C International gateway(s) C C C C Mobile telephone service C C C C International gateway(s) A A Reg. treatment of VolP (banned, closed, no framework, allowed) A No Sector efficiency and capacity Telecommunications revenue (% of GOP) 3.1 Telecommunications revenue (% of revenue) 15.9 Sector performance Access Internet access at home (%) 1.9a 7.2a 6.7a 4.8 Households with a computer (%) 2.2a 6.7a 4.8 Households with internet access at home (%) 1.9a Idecommunications (per 100 people) 1.0 0.3 0.3 <t< td=""><td>Urban population (% of total)</td><td>14</td><td>16</td><td></td></t<>	Urban population (% of total)	14	16	
Adult literacy rate (% ages 15 and older) 73 74 Gross primary, secondary, and tertiary school enrollment (%) 67 60 Sector structure Sector structure Mixed				
Gross primary, secondary, and tertiary school enrollment (%) 67 60 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 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) 3.1 Telecommunications investment (% of revenue) 15.9 Sector performance Access Fixed-telephone subscriptions (per 100 people) 1.0 0.8 0.9 Mobile-cellular telephone subscriptions (per 100 people) 1.0 0.3 3.3 Households with a computer (%) 2.2ª 6.7ª 4.8 Households with internet access at home (%) 1.9ª 7.2ª 7.1				5.4
Separate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)CCInternational gateway(s)CCCMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacity15.9Telecommunications revenue (% of GDP)3.1Telecommunications investment (% of revenue)15.9Sector performanceAccessFixed-telephone subscriptions (per 100 people)0.00.30.3Households with a computer (%)2.2ª6.7ª4.8Households with a computer (%)1.9ª7.2ª7.1UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)12.519.2ª9.5QualityPopulation covered by at least a 3G mobile network (%)424551International Internet bandwidth (bit/s per Internet user)8494,6334,245AffordabilityMobile-cellular sub-basket (\$ a month)10.06.28.0Mobile-cellular sub-basket (\$ a month)13.46.19.4Fixed-broadband sub-baske				
Separate telecommunications/ICT regulatorYesYesStatus of main fixed-line telephone operatorMixedMixedLevel of competition (competition, partial comp., monopoly)CCInternational gateway(s)CCCMobile telephone serviceCCCInternet serviceCCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacity15.9Telecommunications revenue (% of GDP)3.1Telecommunications investment (% of revenue)15.9Sector performanceAccessFixed-telephone subscriptions (per 100 people)0.00.30.3Households with a computer (%)2.2ª6.7ª4.8Households with a computer (%)1.9ª7.2ª7.1UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)12.519.2ª9.5QualityPopulation covered by at least a 3G mobile network (%)424551International Internet bandwidth (bit/s per Internet user)8494,6334,245AffordabilityMobile-cellular sub-basket (\$ a month)10.06.28.0Mobile-cellular sub-basket (\$ a month)13.46.19.4Fixed-broadband sub-baske	Sector structure			
Status 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)ANoSector efficiency and capacityTTTTelecommunications revenue (% of GDP)3.1Telecommunications revenue (% of GDP)3.1Sector performanceAAAAccessFixed-telephone subscriptions (per 100 people)1.00.80.9Mobile-cellular telephone subscriptions (per 100 people)0.00.30.3Households with a computer (%)2.2ª6.7ª4.8Households with Internet access at home (%)1.9ª7.2ª7.1UsageIntrinutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)12.519.2ª9.5QualityPopulation covered by at least a 3G mobile network (%)424551International Internet bandwidth (bit/s per Internet user)8494.6334.245AffordabilityMobile-cellular sub-basket (\$ a month)		Yes	Yes	
International gateway(s)CCCMobile telephone serviceCCInternet serviceCCForeign ownership (not allowed, restricted, allowed)AAReg. treatment of VoIP (banned, closed, no framework, allowed)ANoSector efficiency and capacityTelecommunications revenue (% of GDP)3.1Telecommunications investment (% of revenue)15.9Sector performanceAAAAccessFixed-telephone subscriptions (per 100 people)1.00.80.9Mobile-cellular telephone subscriptions (per 100 people)0.00.30.3Households with a computer (%)2.2ª6.7ª4.8Households with internet access at home (%)1.9ª7.2ª7.1UsageInt'l. voice traffic, total (minutes/subscription/month)Individuals using the Internet (%)12.519.2ª9.5QualityPopulation covered by at least a 3G mobile network (%)424551International Internet bandwidth (bit/s per Internet user)8494,6334,245AffordabilityMobile-cellular sub-basket (\$ a month)10.06.28.0Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)10.810.810.8ICT goods exports (% of total goods exports)5.70.7ICT goods imports (% of total goods exports)5.70.7ICT goods imports (% of total goods exports)13.0<		Mixed	Mixed	
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)3.1Telecommunications investment (% of revenue)15.9Sector performanceAccessFixed-telephone subscriptions (per 100 people)1.00.80.9Mobile-cellular telephone subscriptions (per 100 people)0.00.30.30.3Households with a computer (%)2.2°6.7°4.8Households with a computer (%)1.9°7.2°7.1UsageInt'l. voice traffic, total (minutes/subscription/month)Domestic mobile traffic (minutes/subscription/month)Domestic mobile traffic, total (minutes/subscription/month)12.519.2°9.5QualityPopulation covered by at least a 3G mobile network (%)424551International Internet bandwidth (bit/s per Internet user)8494,6334,245AffordabilityMobile-cellular sub-basket (\$ a month)16.330.0033.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)10.810.8TradeICT goods exports (% of total goods exports)5.70.7ICT goods imports (% of total goods imports)7.44.33.4 <td>Level of competition (competition, partial comp., monopoly)</td> <td></td> <td></td> <td></td>	Level of competition (competition, partial comp., monopoly)			
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Affordability 849 4,633 4,245 Affordability 13.4 6.1 9.4 Fixed-broadband 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, prepaid handset-based, 1 GB (\$ a month) 10.8 10.8 Trade 10.7 10.8 10.8 ICT goods exports (% of total goods exports) 5.7 0.7 18.2 Applications 0.10 0.15 0.11 0.15 0.11		10	45	54
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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 0.10 0.15 0.11		40.4	0.4	0.4
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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 0.10 0.15 0.11		F 7	0.7	
ICT service exports (% of total service exports) 13.0 18.2 Applications 0.10 0.15 0.11				 2 /
Online service index (0-1, 1=highest presence)0.100.150.11				
Online service index (0-1, 1=highest presence)0.100.150.11	Annlications			
		0.10	0.15	0.11
	Secure Internet servers (per million people)			

Ukraine

Europe & Central Asia

Lower middle income

Economic and social context Population (millions) Urban population (% of total)	2010 46 69 2,990 0.3 94	45 70 2,620 -2.3 100 96	income group 2015 2,927 39 2,035 5.4
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 Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	46 69 2,990 0.3 	45 70 2,620 -2.3 100	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 (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	69 2,990 0.3 	70 2,620 -2.3 100	39 2,035 5.4
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	69 2,990 0.3 	70 2,620 -2.3 100	39 2,035 5.4
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	2,990 0.3 	2,620 -2.3 100	2,035 5.4
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	0.3 	-2.3 100	5.4
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		100	
Gross primary, secondary, and tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator			
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	54	90	68
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator			00
Status of main fixed-line telephone operator			
	Yes	Yes	
Level of competition (competition, partial comp., monopoly)	Public	Mixed	
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			
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	19.3
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	354	·
	14,912	45,743	10,372
Affordability	0.5	2.0	<u> </u>
Mobile-cellular sub-basket (\$ a month)	6.5 7.6	3.0 2.7	6.9 14.3
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	1.0	2.7	14.3 5.8
Mobile-b'band, prepaid nandset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		2.5	10.0
mobile o balla, postpala compater-basea, 1 db (4 a month)		2.1	10.0
Trade			
ICT goods exports (% of total goods exports)	1.1	1.0	
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

United Arab Emirates

Middle East & North Africa

	Count	Country data		Country data i	
	2010	2015	group 2015		
Economic and social context					
Population (millions)	8	9	1,187		
Urban population (% of total)	84	86	81		
GNI per capita, World Bank Atlas method (\$)	34,140		41,366		
GDP growth, 2005–10 and 2010–15 (avg. annual %)	1.9 90	4.9	1.5		
Adult literacy rate (% ages 15 and older) 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)	Р	Р			
Mobile telephone service	Р	Р			
Internet service	Р	P			
Foreign ownership (not allowed, restricted, allowed)	R	A C			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	C			
Sector efficiency and capacity			0.5		
Telecommunications revenue (% of GDP)	2.4	2.3	2.5		
Telecommunications investment (% of revenue)	30.8	15.7	18.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	17.5	23.1	41.2		
Mobile-cellular telephone subscriptions (per 100 people)	129.4 9.3	187.3 12.8	124.5 31.0		
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	9.3 76.0	12.8 89.3ª			
Households with Internet access at home (%)	65.0	95.4ª			
Usage	E 2 1	52.9			
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	53.1 128.0		 195.9		
Individuals using the Internet (%)	68.0	91.2ª			
	0010	0112	0110		
Quality Population covered by at least a 3G mobile network (%)	100	100	99		
International Internet bandwidth (bit/s per Internet user)		107,904			
		,			
Affordability					
Mobile-cellular sub-basket (\$ a month)	8.6	6.7	14.2		
Fixed-broadband sub-basket (\$ a month)	40.6	40.6	25.2		
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	27.0 39.5	16.3 27.0	10.4 14.4		
Mobile-b balld, postpald computer-based, 1 GB (\$ a month)	39.3	21.0	14.4		
Trade					
ICT goods exports (% of total goods exports)	2.0		9.5		
ICT goods imports (% of total goods imports)	4.5		11.2		
ICT service exports (% of total service exports)			32.0		
Applications					
Online service index (0-1, 1=highest presence)	0.25	0.88	0.67		
Secure Internet servers (per million people)	137.5	354.7	1,194.6		

United Kingdom

Europe & Central Asia

	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 (\$)	63 81 40.480	83	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 (%)	0.1 90	2.1	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)	Yes Private		
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed	C A) A	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.0 11.5		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 (%)	53.8 123.6 30.9 82.6 79.6	125.8 37.7 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 (%)	 135.4 85.0		 195.9 81.0
Quality Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	95 132,685	99 374,554	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)	34.9 24.6 9.5 16.1	15.3 9.2	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)	5.8 9.5 34.5	7.8	9.5 11.2 32.0
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.77 1,384.1		0.67 1,194.6

United States

North America

	Countr	Country data		i Country data	
	2010	2015	group 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	С			
Internet service	C A	C A			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		A			
reg. treatment of voir (banned, closed, no manework, anowed)	~	~			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.4	3.4	2.5		
Telecommunications investment (% of revenue)	13.9		18.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	47.9	37.5	41.2		
Mobile-cellular telephone subscriptions (per 100 people)	91.3	117.6	124.5		
Fixed-broadband subscriptions (per 100 people)	27.1 75.5ª	31.5	31.0		
Households with a computer (%) Households with Internet access at home (%)	75.5ª 71.1	87.3ª 82.2ª			
	/1.1	02.2	05.0		
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 (%)	11.1	74.0	81.0		
Quality					
Population covered by at least a 3G mobile network (%)	99	100	99		
International Internet bandwidth (bit/s per Internet user)	40,206	99,017	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					
ICT goods exports (% of total goods exports)	10.6	9.0	9.5		
ICT goods imports (% of total goods imports)	14.4	13.1	11.2		
ICT service exports (% of total service exports)	22.4	22.7	32.0		
Applications					
Online service index (0-1, 1=highest presence)	0.94	0.94	0.67		
Secure Internet servers (per million people)	1,445.0	1,649.9	1,194.6		



Latin America & Caribbean

	Country data		High- income group
	2010	2015	2015
Economic and social context Population (millions)	3	3	1,187
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) Gross primary, secondary, and tertiary school enrollment (%)	98 90	98 	 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) International gateway(s)			
Mobile telephone service	C	C	
Internet service	P	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			
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 33.5	68.0 59.7	83.2 85.0
Households with Internet access at home (%)	33.0	59.1	05.0
Usage	6.4	4.5	
Int'l. voice traffic, total (minutes/subscription/month) 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 (%)		90ª	
International Internet bandwidth (bit/s per Internet user)	24,115	73,151	134,761
Affordability			
Mobile-cellular sub-basket (\$ a month)	21.4 19.3	17.0 17.9	14.2 25.2
Fixed-broadband sub-basket (\$ a month) Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	19.5 9.9	3.7	23.2 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	0.40	0.05	0.07
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.48 44.7	0.85 106.7	0.67 1,194.6
Secure miternet servers (per million people)	44.7	100.7	1,134.0

Uzbekistan

Europe & Central Asia	Lower m	ower middle i		
	Qountr	Country data		
		-	group	
	2010	2015	2015	
Economic and social context				
Population (millions)	29	31	2,927	
Urban population (% of total)	36	36	39	
GNI per capita, <i>World Bank Atlas</i> method (\$)	1,300 8.7	2,150 8.1	2,035 5.4	
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	0.1	100	5.4	
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, allowe	 ed) No	 No		
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) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	6.8 75.5 0.4 17.0ª 21.0ª	8.4 73.3 3.6 43.2 52.6ª	3.5 90.5 1.9 19.3 24.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	22.1	9.4	7.5	
Domestic mobile traffic (minutes/subscription/month)	154.3	48.2	152.0	
Individuals using the Internet (%)	15.9ª	42.8	28.6	
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	2.4	4.5	0.0	
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	3.4 200.0	4.5 6.6	6.9 14.3	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)	200.0	10.0	5.8	
Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	6.3	10.0	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)	0.38	0.45	0.26	
Secure Internet servers (per million people)	0.2	2.7	7.4	

Vanuatu

East Asia & Pacific

Lower middle income

			Lower middle-
	Country data		income group
	2010	2015	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 85	5.4
Adult literacy rate (% ages 15 and older) 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	C	
Internet service Foreign ownership (not allowed, restricted, allowed)	C R	C A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		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) Fixed-broadband subscriptions (per 100 people)	71.9 0.2	66.2 1.6	90.5 1.9
Households with a computer (%)	8.7ª	24.8	
Households with Internet access at home (%)	5.4ª	34.54	
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	00	E 1 3	
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)	23 2,804	51ª 8,477	 10,372
international internet bandwidth (bit/s per internet user)	2,004	0,411	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) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		7.8 36.9	5.8 10.0
Trada			
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

Venezuela, RB

Latin America & Caribbean

Upper middle income

	Countr	eteb v	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 4.5
GDP growth, 2005-10 and 2010-15 (avg. annual %) Adult literacy rate (% ages 15 and older)	3.7 95	0.4 95	4.5
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)		С	
International gateway(s) Mobile telephone service	 C	C	
Internet service	C	c	
Foreign ownership (not allowed, restricted, allowed)	R	Ă	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	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	48.7
Households with Internet access at home (%)	14.3ª	34.7ª	52.2
Usage	2.0	4.4	0.0
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	3.8 99.5	4.4 118.0	
Individuals using the Internet (%)	37.4	61.9ª	
Quality Population covered by at least a 3G mobile network (%)			69
International Internet bandwidth (bit/s per Internet user)	6,450	16,310	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'band, postpaid computer-based, 1 GB (\$ a month)	18.4	58.4	11.1
Trade ICT goods exports (% of total goods exports)	0.0	0.0	15.7
ICT goods imports (% of total goods imports)	7.6	4.2	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

	Country data g		income group	
	2010	2015	2015	
Economic and social context				
Population (millions)	87	92	2,927	
Urban population (% of total)	30	34	39	
GNI per capita, <i>World Bank Atlas</i> method (\$)	1,270 6.2	1,980 5.8	2,035	
GDP growth, 2005–10 and 2010–15 (avg. annual %) Adult literacy rate (% ages 15 and older)	0.2 94	95	5.4	
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)	0	0		
International gateway(s)	C 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)	A	C		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	6.5			
Telecommunications investment (% of revenue)				
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)	16.1	6.3	3.5	
Mobile-cellular telephone subscriptions (per 100 people)	125.3	130.6	90.5	
Fixed-broadband subscriptions (per 100 people)	4.1	8.1	1.9	
Households with a computer (%)	14.2ª	22.0	19.3	
Households with Internet access at home (%)	12.5ª	24.1	24.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)			7.5	
Domestic mobile traffic (minutes/subscription/month)	 30.7	 52.7ª	152.0 28.6	
Individuals using the Internet (%)	50.7	52.1	20.0	
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	
	7.9	24.0	5.7	
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	7.9 8.4	24.0 19.1	5.7 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	
		J. 12		

Virgin Islands (U.S.)

Latin America & Caribbean

	Country data		High- income
	2010	2015	group 2015
Economic and social context			
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 %)			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 (%)	71.3 8.6 	71.1 8.4 	41.2 124.5 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 (%)	 31.2ª	 54.8ª	 195.9 81.0
Quality			
Population covered by at least a 3G mobile network (%) International Internet bandwidth (bit/s per Internet user)			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)			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)	 385.8	 453.8	0.67 1,194.6

West Bank and Gaza

Middle East & North Africa

Lower middle income

			Lower middle-
	Country		group
	2010	2015	2015
Economic and social context	4	4	0.007
Population (millions)	4 74	4 75	2,927 39
Urban population (% of total) GNI per capita, <i>World Bank Atlas</i> 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)			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A	
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 3.8	77.6 6.0	90.5 1.9
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	50.1ª	66.7ª	
Households with Internet access at home (%)	29.4ª	52.4ª	
	20.4	52.4	24.5
Usage Int'l. voice traffic, total (minutes/subscription/month)			7.5
Domestic mobile traffic (minutes/subscription/month)			152.0
Individuals using the Internet (%)	37.4ª	57.44	28.6
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 14.6	14.3 5.8
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)		14.0	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

	Country data		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)	М	М		
Mobile telephone service	С	С		
Internet service	C	C		
Foreign ownership (not allowed, restricted, allowed)	No	No		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		В		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	2.9			
Telecommunications investment (% of revenue)	29.4			
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)	4.6	4.7	3.5	
Mobile-cellular telephone subscriptions (per 100 people)	48.7	68.0	90.5	
Fixed-broadband subscriptions (per 100 people)	40.7	1.5	1.9	
Households with a computer (%)	4.0a	6.5		
Households with a computer (%)	2.9ª	5.5		
	2.5	0.0	24.0	
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	25.1ª	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	
	_,	_,		
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	0.0	0.1	5.7	
ICT goods exports (% of total goods exports)	1.3	0.1 1.3	5.7 7.6	
ICT goods imports (% of total goods imports)	1.3 7.3	1.3	7.0 48.0	
ICT service exports (% of total service exports)	1.5	13.1	40.0	
Applications				
Online service index (0-1, 1=highest presence)	0.05	0.31	0.26	

Zambia

Sub-Saharan Africa

Lower middle income

	Country		income group	
	2010	2015	2015	
Economic and social context				
Population (millions)	14	16	2,927	
Urban population (% of total)	39 1,310	41 1,500	39 2,035	
GNI per capita, <i>World Bank Atlas</i> method (\$) GDP growth, 2005–10 and 2010–15 (avg. annual %)	8.6	5.5	2,035	
Adult literacy rate (% ages 15 and older)	83	85		
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)	С	С		
Mobile telephone service	С	P		
Internet service	C R	C A		
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		B		
	D	D		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	0.1	2.0		
Telecommunications investment (% of revenue)		4.2		
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	0.9 41.2	0.7 74.5	3.5 90.5	
Fixed-broadband subscriptions (per 100 people)	0.1	0.1	1.9	
Households with a computer (%)	3.7	7.4ª	19.3	
Households with Internet access at home (%)	3.1ª	12.7	24.3	
Usage	1.0	0.1	7.5	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	1.9 47.3	2.1 83.8	7.5 152.0	
Individuals using the Internet (%)	10.0	21.0 ²		
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 20.4	29.0 9.3	14.3 5.8	
Mobile-b'band, prepaid handset-based, 500 MB (\$ a month) Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)	20.4	9.5 14.0	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	

Zimbabwe

Sub-Saharan Africa

Low income

2010 2015 2015 Economic and social context Population (millions) 14 16 638 Urban population (% of total) 33 32 31 GNI per capital, World Bank Attas method (\$) 500 850 620 GDP growth, 2005-10 and 2010-15 (avg, annual %) -3.4 6.2 5.4 Adult literacy rate (% ages 15 and older) 84 87 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) Internet service P P Internet service C C Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Elecommunications revenue (% of GDP) 8.8 Fixed-telephone subscriptions (per 100 people) 2.9 2.2 0.9 Mobile-cellular telephone subscriptions (per 100 people) 5.3 <th></th> <th>Country</th> <th colspan="2">Country data</th>		Country	Country data	
Population (millions)1416638 638Urban population (% of total)333231GNI per capita, World Bank Atlas method (\$)500850620GDP growth, 2005-10 and 2010-15 (avg, annual %)-3.46.25.4Adult literacy rate (% ages 15 and older)8487Gross primary, secondary, and tertiary school enrollment (%)605960Sector structureSector structureSector structureVesYesSeparate telecommunications/ICT regulatorYesYesYesCatus of main fixed-line telephone operatorPublicPublicPublicLevel of competition, partial comp., monopoly)International gateway(s)PPInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRRReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector performanceAccessFixed-telephone subscriptions (per 100 people)2.92.20.9Mobile-cellular telephone subscriptions (per 100 people)5.311.8ª4.8Households with a computer (%)5.311.8ª4.8Households with a computer (%)5.311.8ª4.8Households with internet access at home (%)4.018.1ª7.UsageInt't. voice traffic (minutes/subscription/month)4.93.7Int't. voice traffic (minutes/subscription/month)4.93.629.048.9<				group 2015
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 %) -3.4 6.2 5.4 Adult literacy rate (% ages 15 and older) 84 87 Gross primary, secondary, and tertiary school enrollment (%) 60 59 60 Sector structure Sector structure Sector structure Public Public Public Sevel of competition, partial comp., monopoly) International gateway(s) P P P Internet service C C C C C Foreign ownership (not allowed, restricted, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Elecommunications revenue (% of GDP) 8.8 Fixed-telephone subscriptions (per 100 people) 2.9 2.2 0.9 Mobile-cellular telephone subscriptions (per 100 people) 5.3 11.8 a 4.8 Households with a computer (%) 5.3 11	Economic and social context			
GNI per capita, World Bank Atlas method (\$)500850620GDP growth, 2005-10 and 2010-15 (avg, annual %)-3.46.25.4Adult literacy rate (% ages 15 and older)8487Gross primary, secondary, and tertiary school enrollment (%)605960Sector structureSeparate telecommunications/ICT regulatorYesYesSeparate telecommunications/ICT regulatorPesPublicPublicLevel of competition (competition, partial comp., monopoly)International gateway(s)PPMobile telephone servicePPPInternet serviceCCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityTelecommunications investment (% of revenue)15.8Fixed-telephone subscriptions (per 100 people)58.984.860.0Mobile-cellular telephone subscriptions (per 100 people)53.311.8ª4.8Households with a computer (%)5.311.8ª4.8Households with a computer (%)6.4ª16.4ª9.5QualityPopulation covered by at least a 3G mobile network (%)55551International Internet (bandwidth (bit/s per Internet user)5196.3804.245Mobile-b'band, prospaid handset-based, 500 MB (\$ a month)30.015.033.6Mobile-b'band, postpaid computer-based, 1 GB (\$ a month)5.03.010.0<	Population (millions)	14	16	638
GDP growth, 2005-10 and 2010-15 (arg. annual %) -3.4 6.2 5.4 Adult literacy rate (% ages 15 and older) 84 87 Gross primary, secondary, and tertiary school enrollment (%) 60 59 60 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 Internet service C C C Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Telecommunications investment (% of GDP) 8.8 Telecollar telephone subscriptions (per 100 people) 2.9 2.2 0.9 Mobile-cellular telephone subscriptions (per 100 people) 5.3 11.8 ^a 4.8 Households with a computer (%) 5.3 11.8 ^a 4.8 4.0 18.1 ^a 7.1 Usage Int'l. viole traffic, total (minutes/subscription/month) 3.0 <td>Urban population (% of total)</td> <td></td> <td></td> <td></td>	Urban population (% of total)			
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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 Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service C C C Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity - 15.8 - Telecommunications revenue (% of GDP) . 8.8 60.0 Fixed-telephone subscriptions (per 100 people) 2.9 2.2 0.9 Mobile-cellular telephone subscriptions (per 100 people) 0.3 1.1 0.3 Fixed-telephone subscriptions (per 100 people) 0.3 1.1 0.3 Households with a computer (%) 5.3 11.8ª 4.8 Households with a treat excess at home (%) 4.0 18.1ª 7.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 4.9 3				5.4
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 P P P Internet service C C 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 Sector performance Access - - Fixed-telephone subscriptions (per 100 people) 2.9 2.2 0.9 Mobile-cellular telephone 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 - <tr< td=""><td></td><td></td><td>÷.</td><td> 60</td></tr<>			÷.	 60
Status of main fixed-line telephone operator Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) P P Mobile telephone service P P P Internet service C C C Foreign ownership (not allowed, restricted, allowed) R R Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity - - Telecommunications investment (% of GDP) . 8.8 . Telecommunications investment (% of revenue) . 15.8 . Sector performance - - - - Access - - - - - Fixed-telephone subscriptions (per 100 people) 0.3 1.1 0.3 1.1 0.3 Households with a computer (%) 5.3 11.8ª 4.8 - - - Usage - - - - - - - - Int'L voice traffic, total (minutes/subscription/month) 4.9 3.7	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s)PPMobile telephone servicePPInternet serviceCCCoreign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacity Telecommunications revenue (% of GDP).8.8Telecommunications revenue (% of revenue).15.8Sector performance Access-Access Fixed-telephone subscriptions (per 100 people)58.984.8Fixed-telephone subscriptions (per 100 people)0.31.1Onselve traffic, total (minutes/subscription/month)4.018.1ªHouseholds with a computer (%)5.311.8ªHouseholds with Internet access at home (%)6.4ª16.4ªDomestic mobile traffic (minutes/subscription/month)4.93.7Individuals using the Internet (%)55551International Internet bandwidth (bit/s per Internet user)5196,380Affordability Mobile-cellular sub-basket (\$ a month)20.612.99.4Fixed-broadband sub-basket (\$ a month)30.015.033.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)90.080.010.8Trade ICT goods exports (% of total goods exports)CT goods imports (% of total goods exports)CT goods imports (% of total service exports) <t< td=""><td>Separate telecommunications/ICT regulator</td><td>Yes</td><td>Yes</td><td></td></t<>	Separate telecommunications/ICT regulator	Yes	Yes	
International gateway(s)PPMobile telephone servicePPInternet serviceCCCoreign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityElecommunications revenue (% of GDP).8.8Telecommunications investment (% of revenue).15.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)58.984.860.0Fixed-telephone subscriptions (per 100 people)0.31.10.31.10.3Households with a computer (%)5.311.8ª4.84.018.1ª7.1UsageInt'l. voice traffic, total (minutes/subscription/month)4.93.7Domestic mobile traffic (minutes/subscription/month)4.93.7Idviduals using the Internet (%)6.4ª16.4ª9.55551International Internet bandwidth (bit/s per Internet user)5196,3804,245AffordabilityMobile-cellular sub-basket (\$ a month)30.015.033.6Mobile-celband sub-basket (\$ a month)20.612.99.4Fixed-broaband sub-basket (\$ a month)5.53.93.4ICT goods exports (% of total goods exports)0.00.1ICT goods imports (% of total goods exports)0.00.1ICT goods imports (% of total goods imports)5.53.93.4	Status of main fixed-line telephone operator	Public	Public	
Mobile telephone servicePPInternet serviceCCForeign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacityTelecommunications revenue (% of GDP)Telecommunications investment (% of revenue).15.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)2.92.2OgMobile-cellular telephone subscriptions (per 100 people)0.31.1Ouseholds with a computer (%)5.311.8ªHouseholds with internet access at home (%)4.018.1ªTill'I. voice traffic, total (minutes/subscription/month)4.93.7Domestic mobile traffic (minutes/subscription/month)4.93.6.0QualityPopulation covered by at least a 3G mobile network (%)555Mobile-cellular sub-basket (\$ a month)3.0.015.0Mobile-cellular sub-basket (\$ a month)3.0.015.0Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)54.010.0Mobile-b'band, prepaid handset-based, 1 GB (\$ a month)9.00.1CI goods supports (% of total goods exports)CI goods imports (% of total goods imports)5.53.93.4ICT service exports (% of total service exports)ApplicationsRest telephone.0.130.	Level of competition (competition, partial comp., monopoly)			
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Foreign ownership (not allowed, restricted, allowed)RRReg. treatment of VoIP (banned, closed, no framework, allowed)NoASector efficiency and capacity Telecommunications revenue (% of GDP)8.8Telecommunications investment (% of revenue)15.8Sector performance Access Fixed-telephone subscriptions (per 100 people)2.92.20.9Mobile-cellular telephone subscriptions (per 100 people)5.31.10.3Households with a computer (%)5.311.8ª4.8Households with internet access at home (%)4.018.1ª7.1Usage Int'L voice traffic, total (minutes/subscription/month)4.93.7Domestic mobile traffic (minutes/subscription/month)4.93.55Quality Population covered by at least a 3G mobile network (%)55551International Internet bandwidth (bit/s per Internet user)5196,3804,245Affordability Mobile-cellular sub-basket (\$ a month)20.612.99.4Fixed-broadband sub-basket (\$ a month)30.015.033.6Mobile-b'band, prepaid handset-based, 500 MB (\$ a month)9.080.010.8Trade ICT goods exports (% of total goods exports)Online service index (0-1, 1=highest presence)0.130.310.11	•			
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Sector efficiency and capacitySector efficiency and capacityTelecommunications revenue (% of GDP). 15.8Sector performanceAccessFixed-telephone subscriptions (per 100 people)S.92.9Discriptions (per 100 people)Size tor performanceAccessFixed-telephone subscriptions (per 100 people)S.984.860.00Fixed-telephone subscriptions (per 100 people)D.31.1On popleD.31.1.8ALMobile-cellular telephone subscription (per 100 people)D.31.1.8ALOperation (%)Discription/month)4.0Mobile-cellular telephone subscription/month)A.9ALUsageInt'L voice traffic, total (minutes/subscription/month)A.9ALOperation covered by at least a 3G mobile network (%)55Discription (%)AlfordabilityMobile-cellular sub-basket (% a month)2.0				

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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